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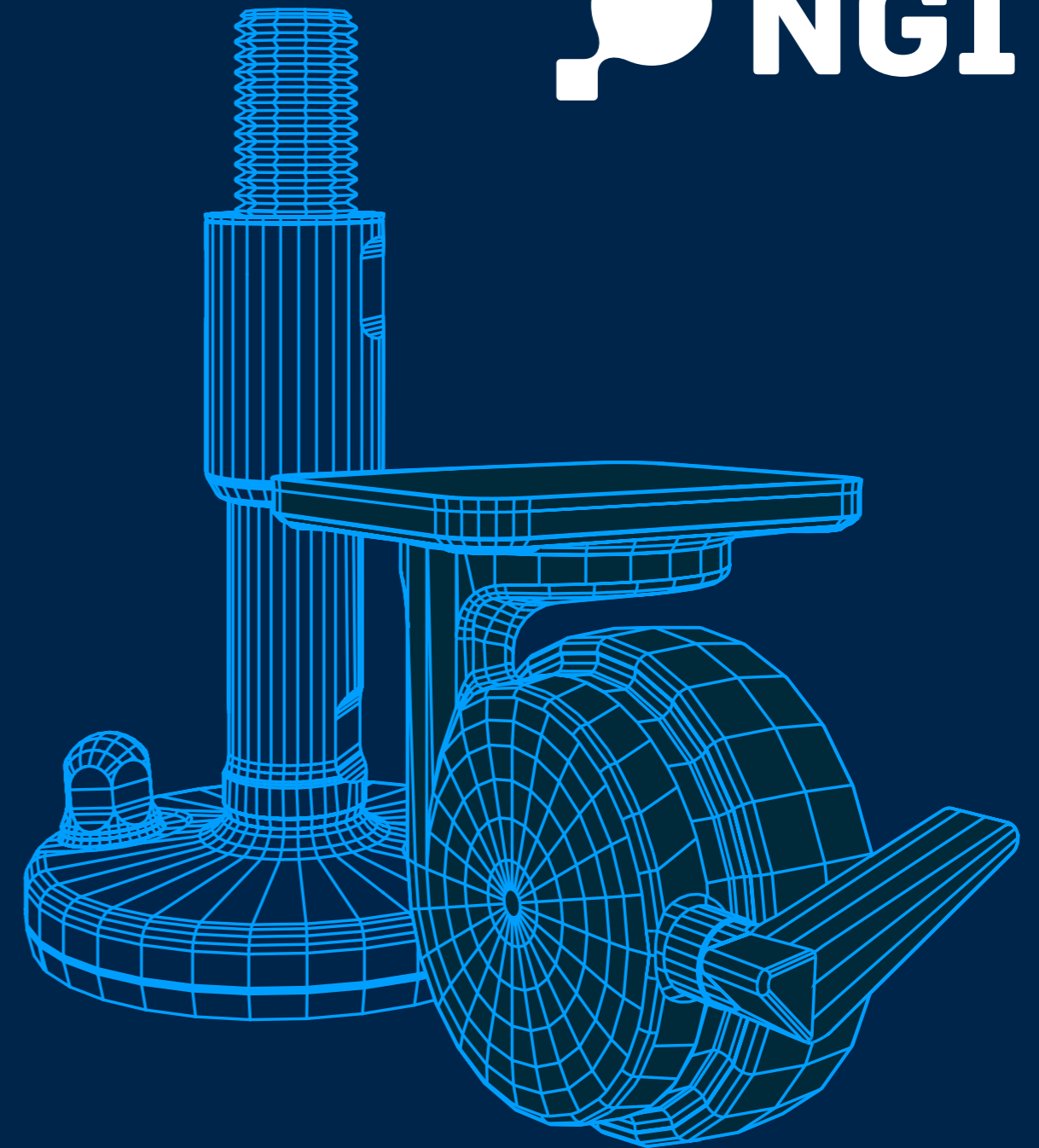
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All NGI hygienic components are  
**design and patent protected**



# Hygienic Components



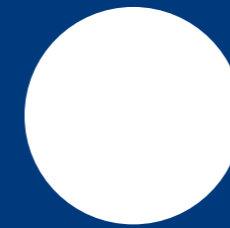
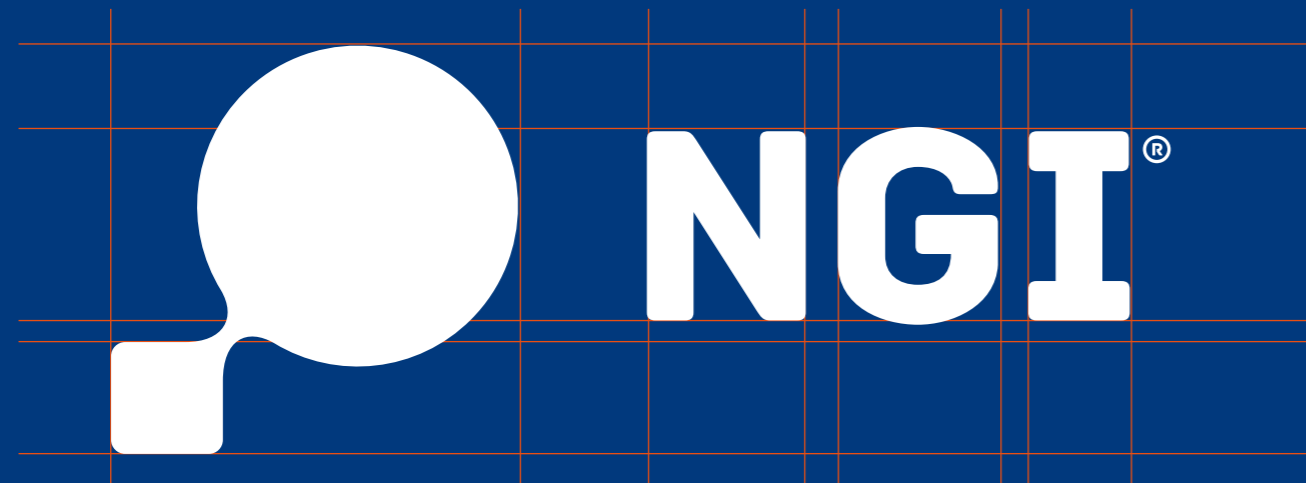
**“Hygienic and sustainable  
solutions for the food industry**

**We continuously develop and  
innovate our products and  
concepts to satisfy the  
requirements of our customers”**

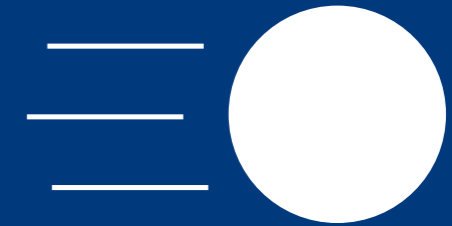
# The logo DNA

The journey of our logo as we are transforming from a supplier of stainless steel products to a value-adding partner in hygienic design.

We believe that delivering high quality products on time is not sufficient to be successful. We want to build collaborative relationships with our customers with the authentic intention of creating real value.



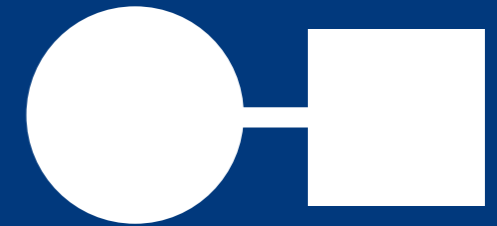
Heritage & hygiene



Dynamic



Data



Knowledge-sharing

## The NGI logo is not just a logo

Every detail is meticulously designed to represent our history and DNA.

Hygiene is at the heart of everything we do and everything we believe in. This is represented by the clear, blue color of our logo and the circle shape.

Our new logo also entails a square shape representing the data-driven and digital organization that NGI has grown to be. We systematically collect data that can be vital to large organizations. This data allows sites to learn from each other and standardize across the organization.

The line between the circle and square represents connectivity, partnerships and the strong relations we take pride in building with our customers.

The monogram of the logo has come to life to portray the dynamic and digital nature of NGI. Our new website which is set to launch in the beginning 2023 will further support this as it is being built to be engaging, animated and video-driven.

Maximum **12-HOURS RESPONSE TIME** to customer enquiries  
**QUICK ORDER CONFIRMATION** (within 24 hours)  
 Incoming orders packed and **SHIPPED THE SAME DAY**

World-wide delivery **1-6 DAYS**  
 Optional **EXPRESS DELIVERY** (next day)  
**TRACK & TRACE** on all shipments

# WHY NGI?

1-4 DAYS  
DELIVERY IN  
SCANDINAVIA

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4-6 DAYS  
DELIVERY IN REST  
OF WORLD

**NO MINIMUM ORDER QUANTITIES**  
 No leveling **PROJECT IS IMPOSSIBLE** for NGI

NGI offers **ALL TYPES OF HIGH-QUALITY LEVELING FEET** at competitive prices  
 NGI is the **ONLY MANUFACTURER IN THE WORLD** of certified hygienic leveling feet  
 Country-specific key account consultants with **LOCAL LANGUAGE SKILLS**



# Specific market consultants

Invitation to innovation  
Investing in knowledge-sharing

## Locally based Area Sales Managers

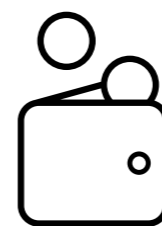


### Gain a competitive advantage with hygienic components

NGI has grown to become the global market leader for hygienic components due to our continuously high involvement in our customer's businesses and needs.

Our deep insight into the various sectors within the machine manufacturing and food processing industries makes us a value-adding partner with focus on consulting and knowledge sharing.

Today, NGI is represented in more than 50 countries and is rapidly expanding. As an NGI customer you will always be able to talk to a country-specific consultant with local language skills.



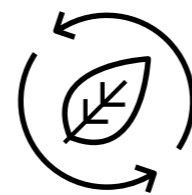
### Do you want us to calculate your savings?

Contact us if you want a free sample or if you want us to help calculate your savings?

# Product Innovation

Innovating for tomorrow  
Investing in research & development

## NGI Innovation - the Sustainable Way



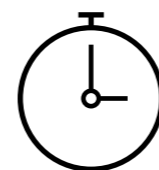
### Stainless steel - Recyclable materials

80% of our products can be recycled. We are working on initiatives to make this percentage even higher.



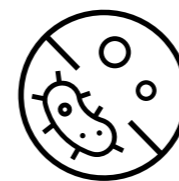
### Hygienic seals - Resource saving

Permit easy cleaning and reduce water consumption.



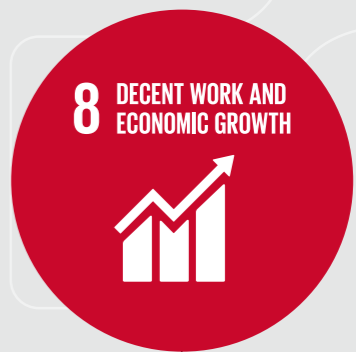
### High Quality - Longer lifetime

Our products are very high quality which means they have a longer lifetime than corresponding components.



### Hygienic design - Protecting consumers

We make sure that the components do not constitute a hygiene risk through innovative and uncompromising design.



# Support sustainability with NGI components

NGI constantly work to optimize the hygienic behaviour in the many companies using our certified hygienic components.

Our task goes far beyond just our products. We ensure responsible behavior through collaboration, insight and knowledge sharing across industries and country borders.

Using NGI's hygienic components significantly improves food safety, optimizes and **reduces the use of cleaning resources with minimum 28%.**





## CASE STORY

# ARLA Retrofit to avoid cracks and openings in the floor



DAIRY, MILK  
& CHEESE

”As part of Arla Maintenance it is crucial that the machines are up and running all the time. If we need to have extra down-time it will be a problem.

I saw the hygienic feet as an excellent option to minimise the floor damage, the pumps were causing on our floor. That the feet are hygienic and easy to clean for facility services is in perfect synergy with Arla’s new updated hygienic standard.

The feet are very hygienic and easy to clean - and the hygienic seal to the floor will secure that the vibrations from the pump are absorbed and doesn’t make holes anymore.”

**Per Kaster Nielsen**  
Maintenance, Arla



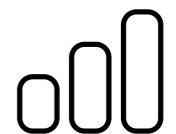
## THE CHALLENGE

Arla’s dairy in Rødkærsbro (Roedkaersbro), Denmark, is the largest mozzarella production site in Europe. The dairy had a problem with some of the pumps in their production area, because the vibrations of the pumps were so severe that they caused holes in the floor underneath them. This was a problem in relation to maintenance as well as hygiene.



## THE SOLUTION

A local maintenance engineer asked NGI for assistance, and NGI retrofitted the feet under the pumps with NGI certified hygienic leveling feet.



## THE EFFECT

The new feet levelled out the vibrations of the pumps and there was no longer a problem with holes in the floor. This made maintenance easier, optimized the uptime of the machinery and increased the overall hygiene of the production area. The retrofitting has, in other words, saved Arla money because they no longer have to stop production and fix holes, and it has, also improved the general hygiene.



## CASE STORY

# BARRY CALLEBAUT

## The highest standards - also in hygiene

**BARRY CALLEBAUT**

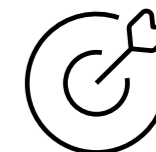


BAKERY &  
SWEETS



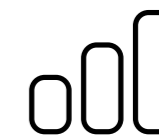
### THE CHALLENGE

As a major part of the world's chocolate food chain, Barry Callebaut wants to secure the highest standards within hygiene. After they started using hygienic feet from NGI in their factories in Belgium and United Kingdom they saw the value of implementing these feet at the specifications stage when they ordered new machines from their machine builders. Therefore, Barry Callebaut wanted to implement NGI components in their technical specifications.



### THE SOLUTION

NGI helped Barry Callebaut develop and implement their standard for production equipment. NGI has been in close contact with Barry Callebaut during the process and NGI have furthermore helped the machine builders of Barry Callebaut with the implementation. Throughout the solution NGI and Barry Callebaut has focused on all parts of the machine supply chain, ensuring that both Barry Callebaut and the advisers and suppliers all benefit from the new standards.



### THE EFFECT

The new standard is implemented at Barry Callebaut and the suppliers have started using the standards. One of these suppliers is DESMI and they have confirmed that both the standards and the NGI hygienic feet are easy to work with.

“NGI is a very interesting partner for us since their innovation within hygienic design allows us as a brand owner to specify hygienic EHEDG certified leveling systems, thereby assuring that NGI will assist the OEM in implementing the most hygienic possible systems to our final gain.

We will continuously keep track of the current and new NGI hygienic products, and we are sure we have found a partner that can assist us and our machine builders with very little effort from our side to our final gain.”

**Hugo Durado & Sebastien Ducatteuw**  
Mechanical engineer & Project manager,  
Barry Callebaut

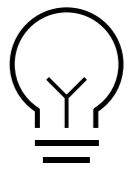
## CASE STORY

# ECOLAB Identifying the problem & delivering the solution

**ECOLAB**



DAIRY, MILK  
& CHEESE



## THE CHALLENGE

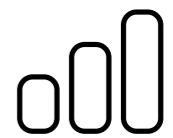
One of Ecolab's customers suffered a serious listeria outbreak at a European factory. They brought in Ecolab in order to find the problem and point to a possible solution.



## THE SOLUTION

A specialist from Ecolab visited the plant, and he found several points for improvement. Some of these were related to machine design. Numerous machines were for example not built with hygienically optimized components.

Due to Ecolab's participation in BOPP – NGI's Brand Owner Partnership Programme – the specialist was able to not only identify the problem but to point to a solution as well. And the machines were retrofitted with hygienic and easy-to-clean certified leveling feet from NGI.



## THE EFFECT

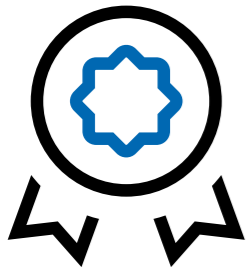
Ecolab's customer was offered a fast and effective solution to their problem, and afterward the customer has asked machine builders to contact NGI to make sure that machines are supplied with NGI's certified components in the future.

NGI is thus brought in as a preferred supplier of certified feet as well as an external expert on hygienic design.

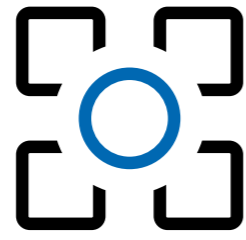
”Being part of BOPP will allow us to offer our customers hygienic design advise about how to solve specific issues in their production regarding hygienic design and of course correctly combined with Ecolab cleaning procedures.”

**Michael Stavad**

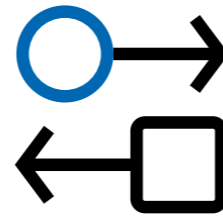
European Application Specialist Food,  
Ecolab



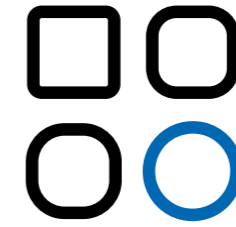
Golden Line



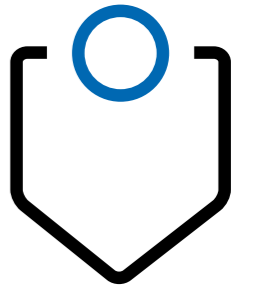
Knowledge-sharing



Retrofit



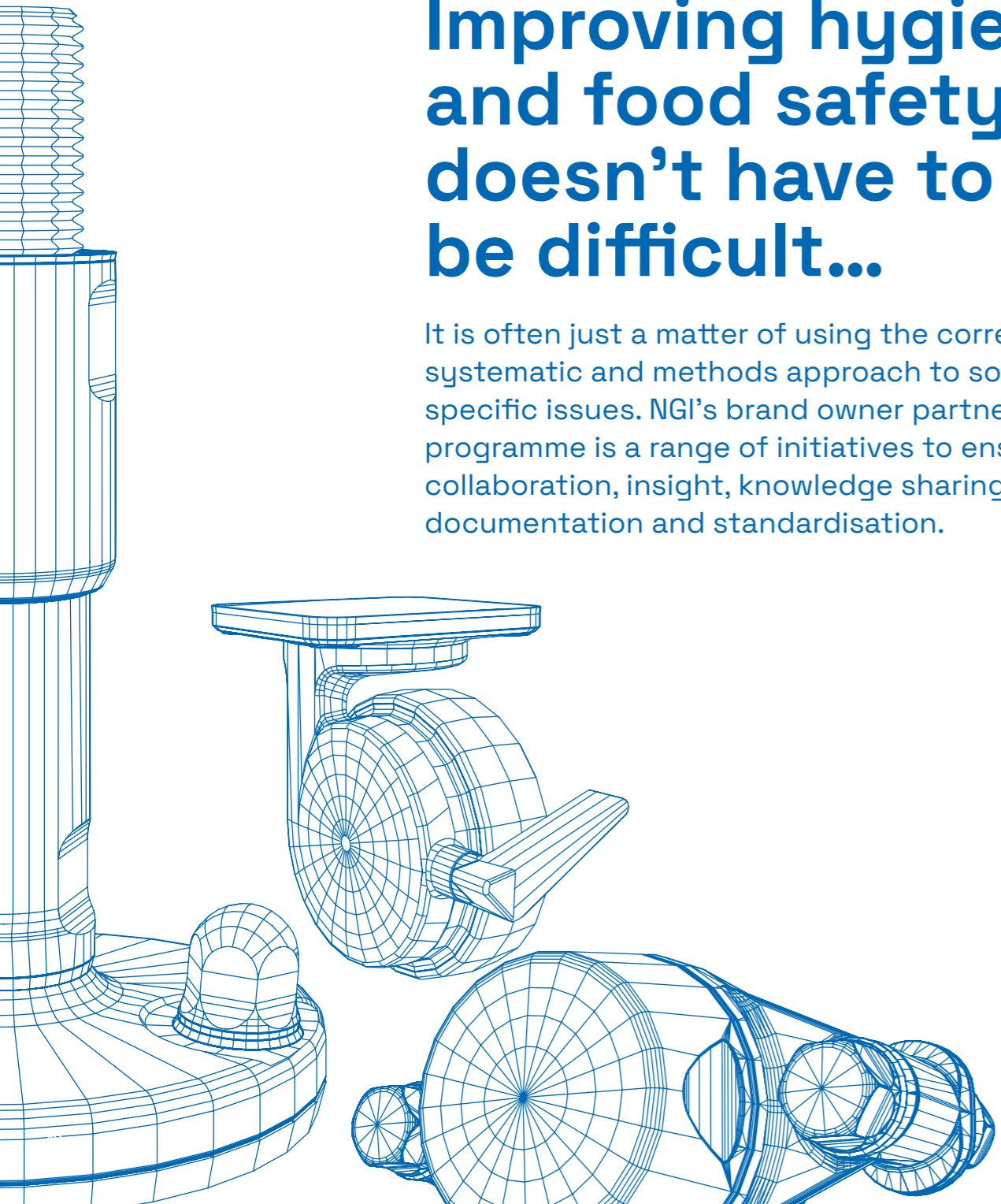
Standardization



Task force bacteria

## Improving hygiene and food safety doesn't have to be difficult...

It is often just a matter of using the correct systematic and methods approach to solve specific issues. NGI's brand owner partnership programme is a range of initiatives to ensure collaboration, insight, knowledge sharing, documentation and standardisation.



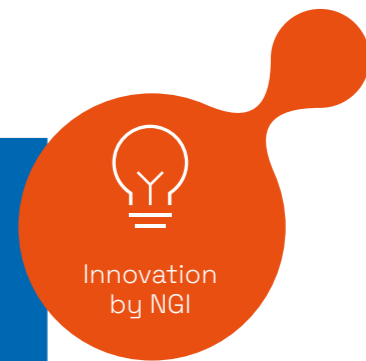
The NGI brand owner partnership programme consists of 5 concrete initiatives, which can improve food safety, hygiene and cleanability in your production environments.

The programme is a scalable set of tools, that can be adapted to the individual brand owners needs and wishes.



Get to know more about BOPP by NGI  
[www.bopp.ngi-global.com](http://www.bopp.ngi-global.com)

# Bearing Houses



## Innovative & Reliable

We provide the optimal solution for your application

The bearing houses are certified and designed to comply with EHEDG, 3-A and USDA rules and guidelines and are specifically designed to minimize risks of contamination and enhance food safety.

The bearing house has a patented waterproof encasement that seals the bearing blocking out dirt and bacteria as well as extending the lifetime of the bearing. The bearings are lubricated for life eliminating the risk of spreading contaminated grease during high-pressure cleaning.

The shaft insertion in to the bearing house has a new groundbreaking patented design that enables a waterproof seal to the shaft despite an installation angle of up to 3 degrees misalignment.

-  Easy installation on differently designed conveyors
-  Enhanced food safety
-  A complete hygienic design minimizing risks of cross-contamination
-  Reduce energy consumption
-  Reduce usage of water and cleaning detergents



reddot winner 2022



Go to [us.ngi-global.com/bearinghouses](https://us.ngi-global.com/bearinghouses) to read more and see our product range.



# Hygienic Caster







## Innovative & Reliable

We provide the optimal solution for your application

The new certified hygienic swivel casters from NGI are the only patented casters in the world hygienically designed in accordance to EHEDG, 3-A and USDA design principles securing optimal conditions for cleaning with easy access from all angles.

The hygienic caster from NGI enhances hygienic safety significantly as it is designed with a one-sided fork housing providing easy access for cleaning. All surfaces are smooth and drainable as they are either round or have a 3° angle, thus, dirt and bacteria will not accumulate.

The brake is integrated in the fork housing and locking of rotation and pivoting occurs inside the caster. Furthermore, the design of the caster allows quick and easy installation.

-  Enhanced food safety
-  A complete hygienic design minimizing risks of cross-contamination
-  Plug&Play installation
-  Minimize water usage and use of cleaning detergents

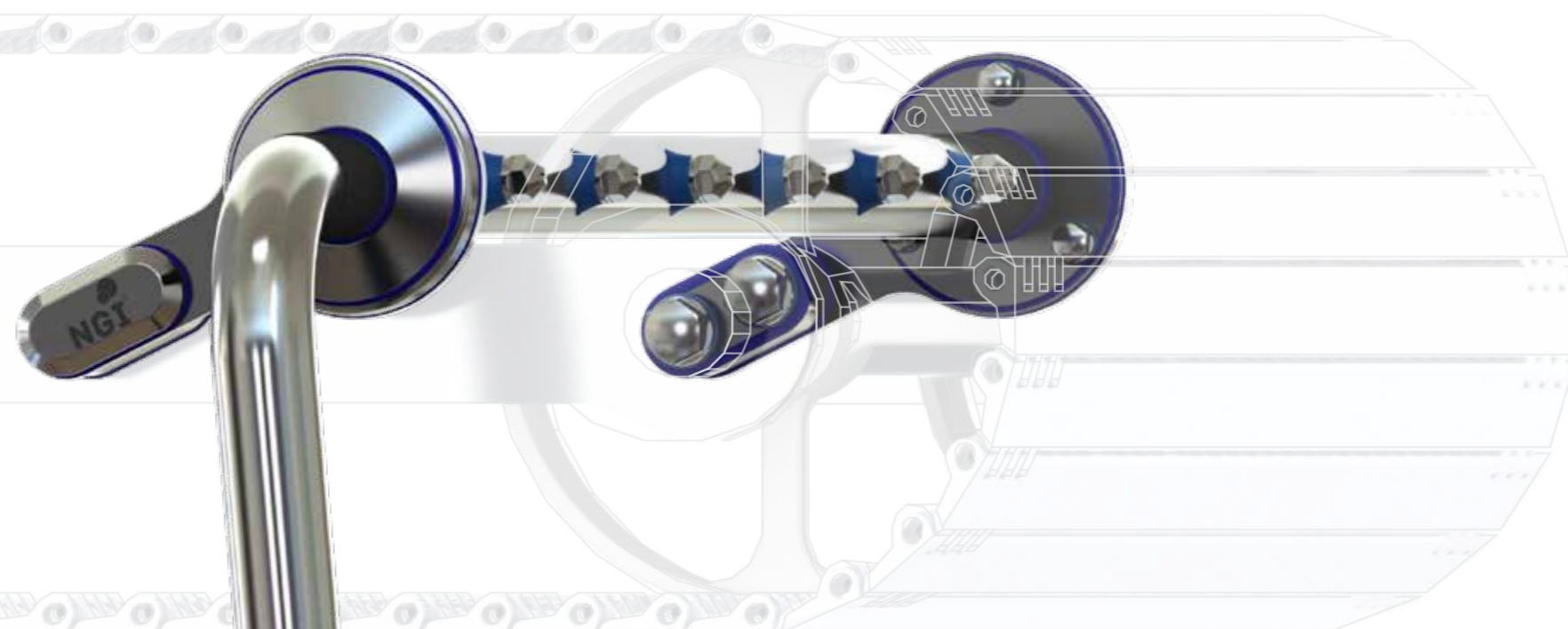
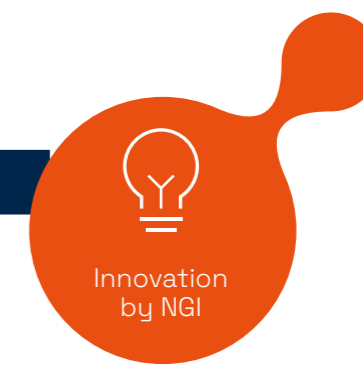


Go to [us.ngi-global.com/hygeniccaster](https://us.ngi-global.com/hygeniccaster) to read more and see our product range.



# CIP Unit

## Hygienic



### Efficient & easy to install



### Hygienic and automatized cleaning of conveyor belts

The easy-to-fit hygienic CIP unit is a simple and efficient solution, where nozzles are positioned on the two spray bars. This is to effectively remove the accumulated organic residues from both sides of a process and conveyor belting.

The CIP unit can easily be installed with no use of complicated engineering and conveyor frame modifications. The device is highly efficient, hygienically designed, and makes cleaning more environmentally friendly.

The installation of the CIP unit minimizes the operator's manual cleaning and contributes to reduce the resource utilization such as water, labor and detergents.

When installed, you reduce contamination and microbial growth and increase the hygiene level of your conveyor belt.

-  Easy installation on differently designed conveyors
-  Enhanced food safety
-  A complete hygienic design minimizing risks of cross-contamination
-  Reduce energy consumption
-  Reduce usage of water and cleaning detergents



Go to [us.ngi-global.com/products/hygienic-cip-unit](https://us.ngi-global.com/products/hygienic-cip-unit) to read more

# Order products Easily



NGI customers can now login to our website at [www.ngi-global.com](http://www.ngi-global.com)

- Order products easily with the quick purchase option
- Save your favorite products
- View your order history
- Reorder products easily

Please contact NGI to acquire username and password.

## CERTIFIED HYGIENIC



**CERTIFIED HYGIENIC  
LEVELING FEET**  
STAINLESS STEEL

**30**



**CERTIFIED HYGIENIC  
BEARING HOUSES**

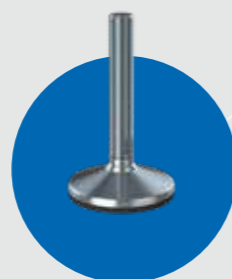
**92**



**CERTIFIED HYGIENIC  
CASTERS**  
STAINLESS STEEL

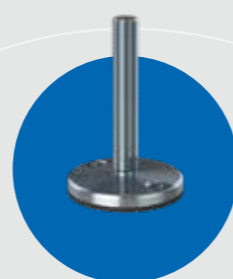
**126**

## LEVELING FEET



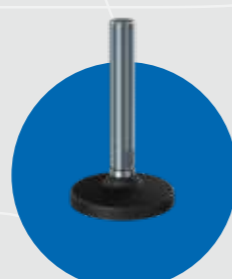
**FULLY-THREADED  
LEVELING FEET**  
STAINLESS STEEL

**152**



**FULLY-THREADED  
SOLID LEVELING  
FEET**  
STAINLESS STEEL

**172**



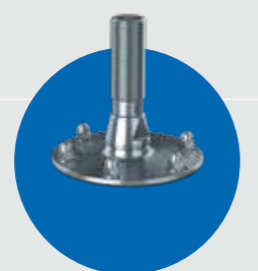
**FULLY-THREADED  
PLASTIC LEVELING  
FEET**  
REINFORCED POLYAMIDE

**202**



**FULLY-THREADED  
WEIGHING  
LEVELING FEET**  
STAINLESS STEEL

**224**



**FULLY-THREADED  
SEISMIC  
LEVELING FEET**  
STAINLESS STEEL

**242**

## CASTERS



**HYGIENIC  
CASTERS**  
STAINLESS STEEL

**260**

## OTHERS



**TANK SUPPORT  
BOLTS**  
STAINLESS STEEL

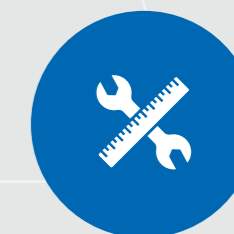
**286**



**ACCESSORIES**  
STAINLESS STEEL

**300**

## SPECIFICATIONS



**TECHNICAL  
SPECIFICATIONS**

**338**

These design and patent protected products are the optimal choice for machinery that has to comply with strict hygiene requirements. Designed in accordance with USDA, EHEDG and 3-A design principles, the products secure easy access for cleaning and optimal conditions for food safety.

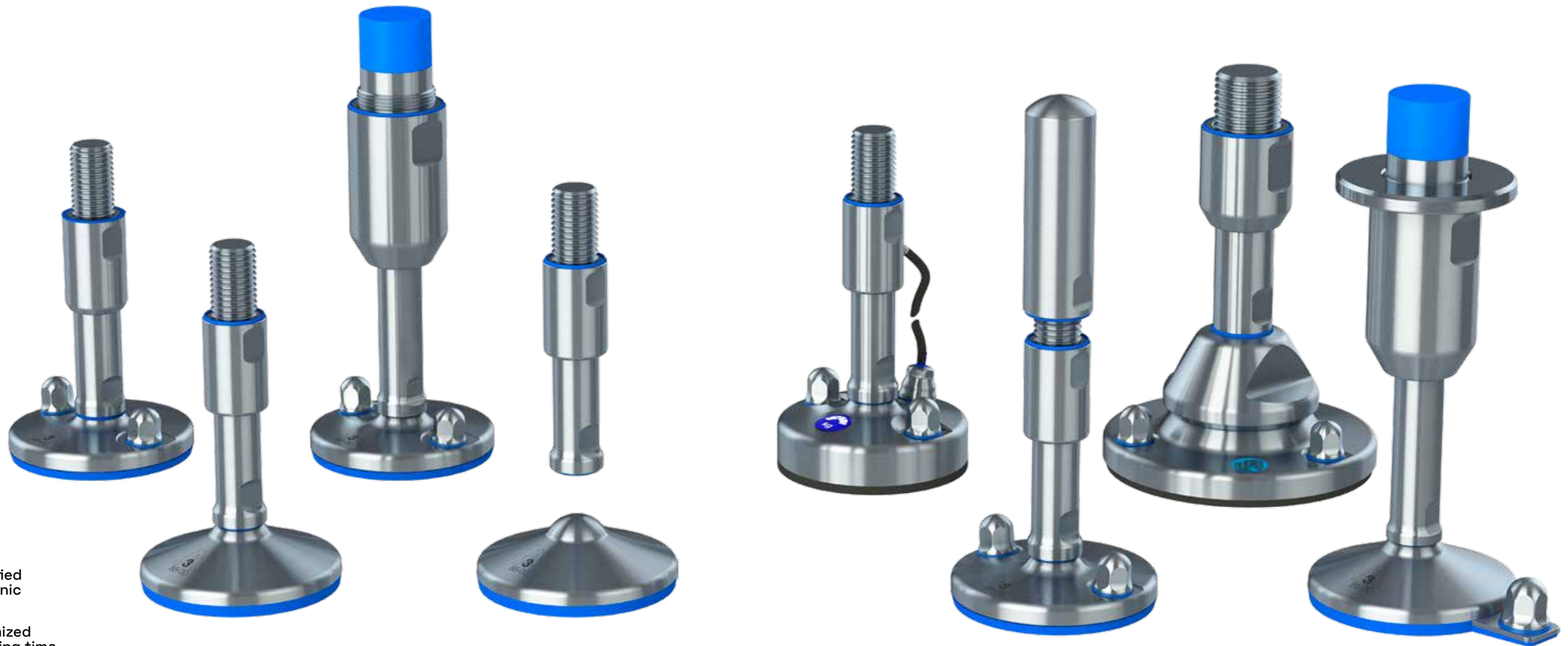
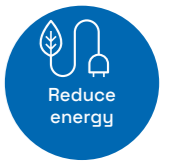


# Certified hygienic Leveling feet



THE only leveling feet in the world hygienically certified by 3-A, USDA & EHEDG standards for use in sanitary production environments

Self-draining surfaces, sealed movable parts and no exposed thread secures absolute minimum cleaning and maximum sanitary safety



Certified hygienic



Minimized cleaning time



Minimized water usage

# Certified hygienic Leveling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications.

The 3-A, USDA and EHEDG certified leveling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified leveling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI). All certified hygienic leveling feet with fastening to floor are delivered with certified hygienic nuts.



## Product Group Features

- EHEDG certification "TYPE EL – 1st CLASS" and 3-A certification "88-00"
- USDA certification "Dairy" and "NSF/ANIS/3-A 14159-1-2014"
- Self-draining surfaces and safety against exposed thread secures absolute minimum cleaning
- Low-friction washer between spindle and footplate ensures easy adjustment
- All movable parts are 100% hygienically sealed even if the load on the foot is removed
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- More than 1.000 different variations available (weight load, height-adjustment, flexible mounting parts)
- All sealings are blue and therefore detectable by scanning systems
- Design and patent protected

## ZHJS

### Special Features

- Height variation 4.21 in – 7.83 in
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo & EHEDG logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional hygienic top cover
- Safety against exposed thread
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 x fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



40

## XH

### Special Features

- Height variation 4.09 in – 8.11 in
- Weight load up to 65.000 N
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover
- Optional fixing to the floor including hygienic nuts



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## ZHJC

### Special Features

- Height variation 4.21 in – 7.83 in
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo & EHEDG logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional hygienic top cover
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 x fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



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## XHG + XHJ

### Special Features

- Height variation 3.98 in – 7.76 in
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover
- Optional fixing to the floor including hygienic nuts



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## ZHFVJ

### Special features

- Height variation 3.78 in – 12.87 in
- Weight load up to 95.500 N due to solid footplate & vulcanized rubber
- 3-A and EHEDG logo on footplate for certified recognition
- 3-A, EHEDG & USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- Optimized design for cleaning
- Surface below 0,8 µm RA
- 2 x fixing to the floor
- Extra hygienic sealings
- Delivered with hygienic nuts



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## XHT

### Special Features

- Height variation 4.29 in – 8.19 in
- Weight load up to 75.000 N
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- 3-A logo on footplate for certified recognition
- Thread covered with hygienic sleeve functioning as counter nut
- Optional top cover



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# Certified hygienic Leveling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications.

The 3-A, USDA and EHEDG certified leveling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified leveling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI). All certified hygienic leveling feet with fastening to floor are delivered with certified hygienic nuts.



## XHFV

### Special Features

- Height variation 3.90 in – 13.19 in
- Weight load up to 65.000 N
- 3-A logo on footplate for certified recognition
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- No risk of over-adjusting the sleeve and thereby exposing thread
- Optional fixing to the floor including hygienic nuts

56



## XHW

### Special Features

- Height variation 4.53 in – 8.58 in
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø 80, Ø105, Ø125 & Ø150 mm
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber
- Thread covered with hygienic sleeve functioning as counter nut

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## XHFVG + XHFVJ

### Special Features

- Height variation 3.78 in – 12.83 in
- Weight load up to 110.000 N due to solid footplate & vulcanized rubber
- 3-A logo on footplate for certified recognition
- USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor
- Optional fixing to the floor including hygienic nuts

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## XHGW + XHJW

### Special Features

- Height variation 4.53 in – 8.54 in
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 10° slope on floors and equipment
- Thread covered with hygienic sleeve functioning as counter nut

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## XHFVT

### Special Features

- Height variation 4.09 in – 13.19 in
- Weight load up to 75.000 N
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- 3-A logo on footplate for certified recognition
- 3-A & USDA certified
- Sealed low-friction thread (lubricated for life)
- Flexible mounting with optional flanges or thread adaptor

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## XHTW

### Special Features

- Height variation 4.53 in – 8.58 in
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30 & M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber
- Thread covered with hygienic sleeve functioning as counter nut
- Separated spindle from weighing footplate makes maintenance easier
- Spindle indirectly connected to the load cell through the footplate

72

# Certified hygienic Leveling feet

All process industries are subject to increasing regulatory requirements, which increases the focus on resource consumption, product safety and official hygienic certifications. The 3-A, USDA and EHEDG certified leveling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production. Choosing NGI's certified leveling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI). All certified hygienic leveling feet with fastening to floor are delivered with certified hygienic nuts.



## XHGTW

### Special Features

- Height variation 4.53 in – 8.54 in
- Weight load up to 5 ton
- Spindle sizes M16, M20, M24, M30, M36
- Footplate sizes Ø105, Ø125 & Ø150 mm
- Admits up to 10° slope on floors and equipment
- Separated spindle from weighing footplate makes maintenance easier
- Spindle indirectly connected to the load cell through the footplate.

74



## XHJSE (S)

### Special Features

- Height adjustment 6.22 in - 11.22 in
- Certified according to USDA hygienic standard
- Designed according to the 3-A and EHEDG hygienic standards
- Available in two standard lengths per diameter size
- Comes with a hygienic sleeve
- Circular arrangement of anchors for best seismic performance
- Spindle sizes M30, M36, M42, M48 & M56 mm

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## XHJSE (L)

### Special Features

- Height adjustment 8.70 in - 13.98 in
- Certified according to USDA hygienic standard
- Designed according to the 3-A and EHEDG hygienic standards
- Available in two standard lengths per diameter size
- Comes with a hygienic sleeve
- Circular arrangement of anchors for best seismic performance
- Spindle sizes M56, M64, M72, M80 & M90 mm

78

# Instructions

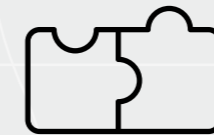
It is important to follow these instructions in order to ensure the certified hygienic design and functionality. This documentation is enclosed with the leveling feet and should always be handed over to the enduser.



## CLEANING & MAINTENANCE

This cleaning and maintenance manual describes how to clean and maintain the leveling foot once installed.

80



## INSTALLATION MANUAL

This installation manual describes how to install the leveling foot onto the machine or equipment for which it is intended to support.

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## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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# Certified hygienic Accessories

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.



## CERTIFIED HYGIENIC DOME-HEADED NUT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in
- Are delivered with all certified hygienic machine feet with floor fixing

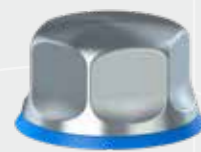
306



## CERTIFIED HYGIENIC TOP COVER

- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top thread
- Minimum cleaning effort due to the self-draining design
- Available in standardized and customized dimensions

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## CERTIFIED HYGIENIC LOW-HEADED NUT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in

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## CERTIFIED HYGIENIC FLANGES & ADAPTOR

- Add-on for the XHFV & ZHFVJ system
- Adaptor converts the size and type of the thread and extends the sleeve. It has blue sealings detectable by scanning systems.

- Flanges are squared or round and installed by bolting or welding. They are available in a large variety of sizes.

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## CERTIFIED HYGIENIC BOLT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in

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# Certified hygienic Leveling feet - ZHJS

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected solid ZHJS leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The thread is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread. The sleeve also functions as a counter nut. The ZHJS is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

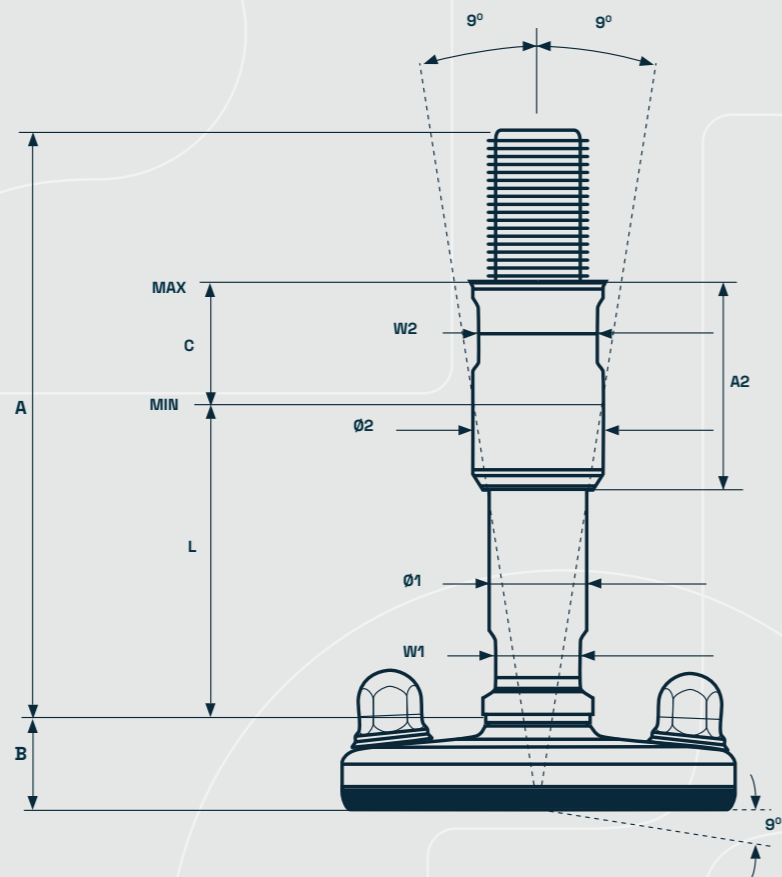
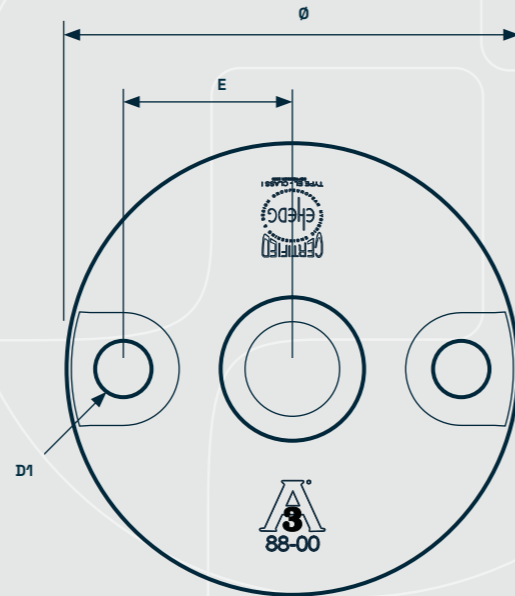
Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A, USDA and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - ZHJS



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE

ZHJ105 - XHJGSC1061 - RHOXS1022



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	1.14	0.33	35.000	ZHJ080
4.09	0.99	1.54	0.51	55.000	ZHJ105
4.88	0.99	1.89	0.51	110.000	ZHJ125
5.87	0.99	2.40	0.51	110.000	ZHJ150

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
5/8-11	6.10	3.15	9/16	0.67	30.800	XHJGSC5861
5/8-11	8.46	4.33	9/16	0.67	24.900	XHJGSC5885
3/4-10	6.10	3.15	11/16	0.83	48.200	XHJGSC3461
3/4-10	8.46	4.33	11/16	0.83	48.200	XHJGSC3485
1-8	6.10	3.15	15/16	1.04	69.200	XHJGSC1061
1-8	8.46	4.33	15/16	1.04	69.200	XHJGSC1085
1 1/4-7	6.10	3.15	1-1/16	1.26	110.200	XHJGSC5461
1 1/4-7	8.46	4.33	1-1/16	1.26	110.200	XHJGSC5485

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	2.17	1.42	RHOXS5822
5/8-11	7/8	0.98	3.35	2.60	RHOXS5833
3/4-10	1	1.17	2.17	1.42	RHOXS3422
3/4-10	1	1.17	3.35	2.60	RHOXS3433
1-8	5/4	1.37	2.17	1.42	RHOXS1022
1-8	5/4	1.37	3.35	2.60	RHOXS1033
1 1/4-7	1 1/2	1.65	2.17	1.42	RHOXS5422
1 1/4-7	1 1/2	1.65	3.35	2.60	RHOXS5433

Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in



# Certified hygienic Leveling feet - ZHJC

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected solid ZHJC leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The ZHJC is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

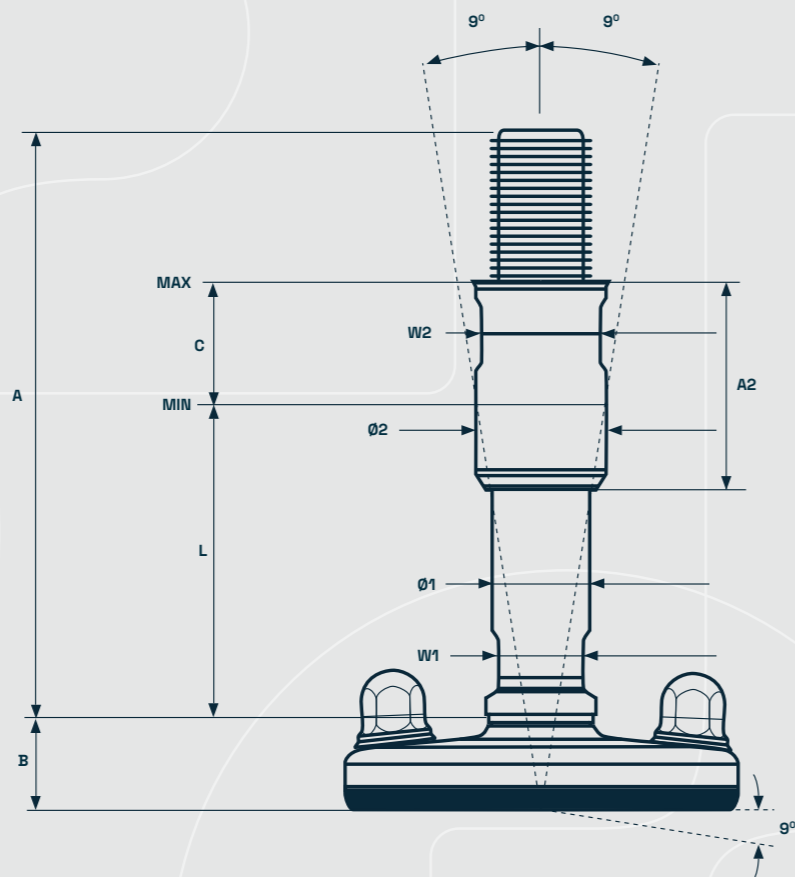
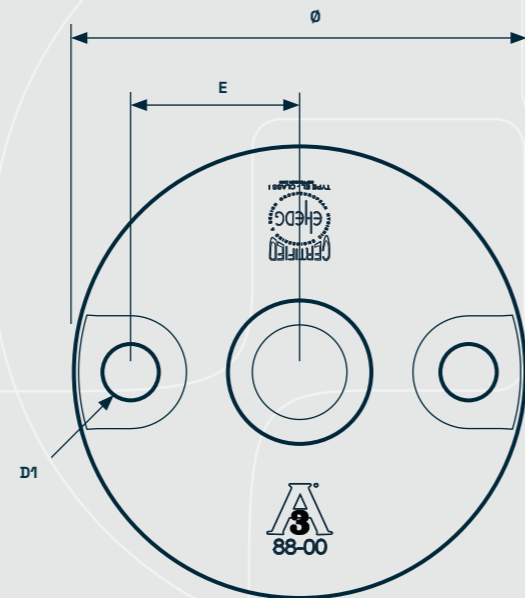
Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - ZHJC



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE

ZHJ105 - XHJGSC1061 - RHOXC1022



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	1.14	0.33	35.000	ZHJ080
4.09	0.99	1.54	0.51	55.000	ZHJ105
4.88	0.99	1.89	0.51	110.000	ZHJ125
5.87	0.99	2.40	0.51	110.000	ZHJ150


THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
5/8-11	6.10	3.15	9/16	30.800	XHJGSC5861
5/8-11	8.46	4.33	9/16	24.900	XHJGSC5885
3/4-10	6.10	3.15	11/16	48.200	XHJGSC3461
3/4-10	8.46	4.33	11/16	48.200	XHJGSC3485
1-8	6.10	3.15	15/16	69.200	XHJGSC1061
1-8	8.46	4.33	15/16	69.200	XHJGSC1085
1 1/4-7	6.10	3.15	1-1/16	110.200	XHJGSC5461
1 1/4-7	8.46	4.33	1-1/16	110.200	XHJGSC5485

THREAD	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	2.17	RHOXC5822
5/8-11	7/8	0.98	3.35	RHOXC5833
3/4-10	1	1.17	2.17	RHOXC3422
3/4-10	1	1.17	3.35	RHOXC3433
1-8	5/4	1.37	2.17	RHOXC1022
1-8	5/4	1.37	3.35	RHOXC1033
1 1/4-7	1 1/2	1.65	2.17	RHOXC5422
1 1/4-7	1 1/2	1.65	3.35	RHOXC5433

Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in



# Certified hygienic Leveling feet - ZHFVJ

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected ZHFVJ is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The ZHFVJ offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor, no risk of overadjusting the sleeve and thereby exposing the thread.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

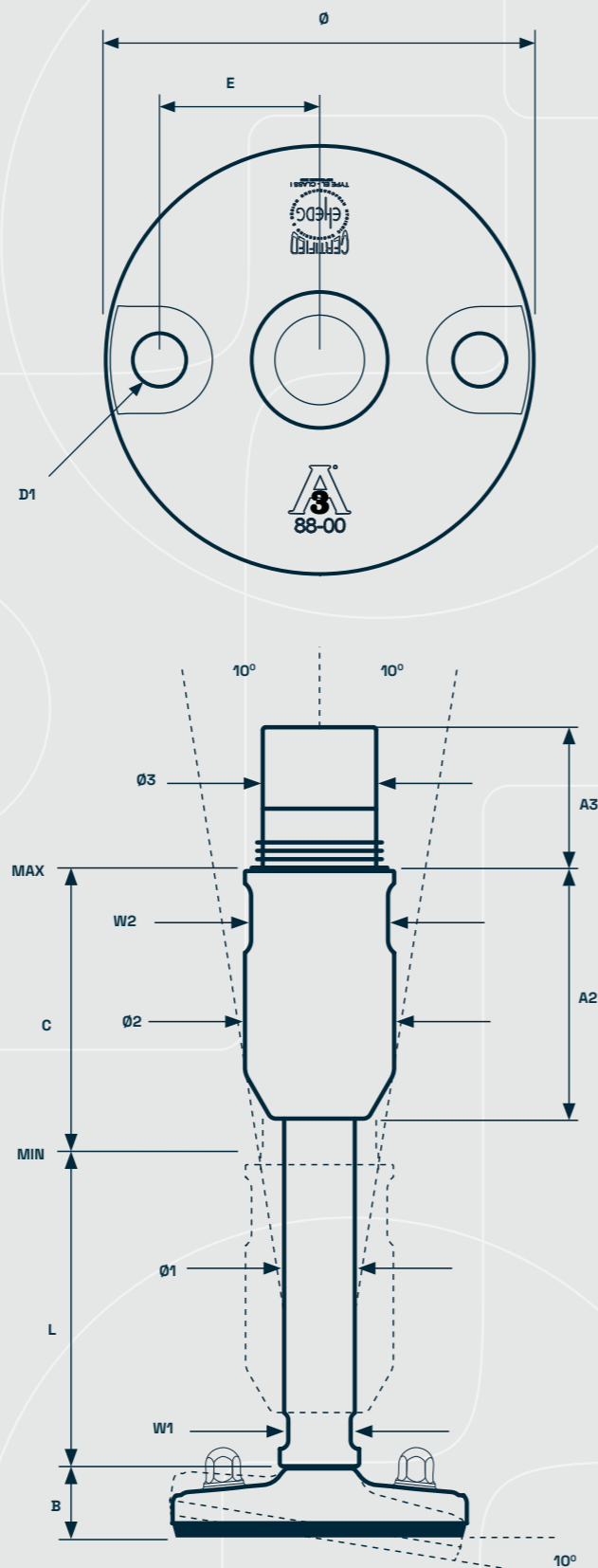
ZHFVJ is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

#### Available upon request:

- Official 3-A, USDA and EHEDG hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - ZHFVJ



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE ZHFVJ150-XHFJG33144-V1

#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	1.14	0.33	35.000	ZHJ080
4.09	0.99	1.54	0.51	55.000	ZHJ105
4.88	0.99	1.89	0.51	95.500	ZHJ125
5.87	0.99	2.40	0.51	95.500	ZHJ150

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHFJG
M33x3.5	4.37	0.98	0.87	XHFJG
M33x3.5	5.98	0.98	0.87	XHFJG

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A2 [in]	HEIGHT A3 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A2  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in



# Certified hygienic Leveling feet - XH

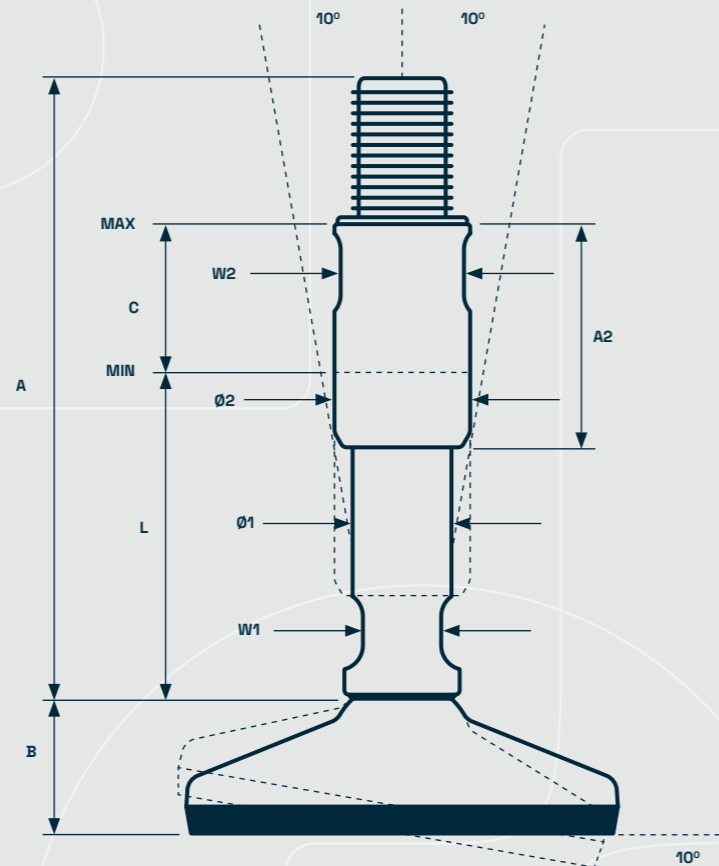
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XH leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

- Available upon request:**
- Official 3-A hygiene certificate
  - Installation instructions
  - Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XH



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE XH065 - XH5859 - RHOX5820

## FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
2.56	1.11	9.000	XH065
3.15	1.31	15.000	XH080
4.13	1.33	22.000	XH105
4.92	1.35	32.000	XH125
5.91	1.43	65.000	XH150

## SPINDLE



THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.63	30.300	XH5859
5/8-11	8.26	4.17	1/2	0.63	24.100	XH5883
3/4-10	5.91	2.99	9/16	0.75	43.800	XH3459
3/4-10	8.26	4.17	9/16	0.75	43.800	XH3483
1-8	5.91	2.99	3/4	1.00	77.500	XH1059
1-8	8.26	4.17	3/4	1.00	77.500	XH1083
1 1/4-7	5.91	2.99	1	1.25	123.400	XH5459
1 1/4-7	8.26	4.17	1	1.25	123.400	XH5483

## SLEEVE



THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	1.97	1.42	RHOX5820
5/8-11	7/8	0.98	3.15	2.60	RHOX5832
3/4-10	1	1.17	1.97	1.42	RHOX3420
3/4-10	1	1.17	3.15	2.60	RHOX3432
1-8	5/4	1.36	1.97	1.42	RHOX1020
1-8	5/4	1.36	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.15	2.60	RHOX5432



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Leveling feet - XH Fixing

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XH Fixing leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XH Fixing is designed to be fastened to the floor by the fixing plate. Certified hygienic leveling feet are always delivered with hygienic nuts.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

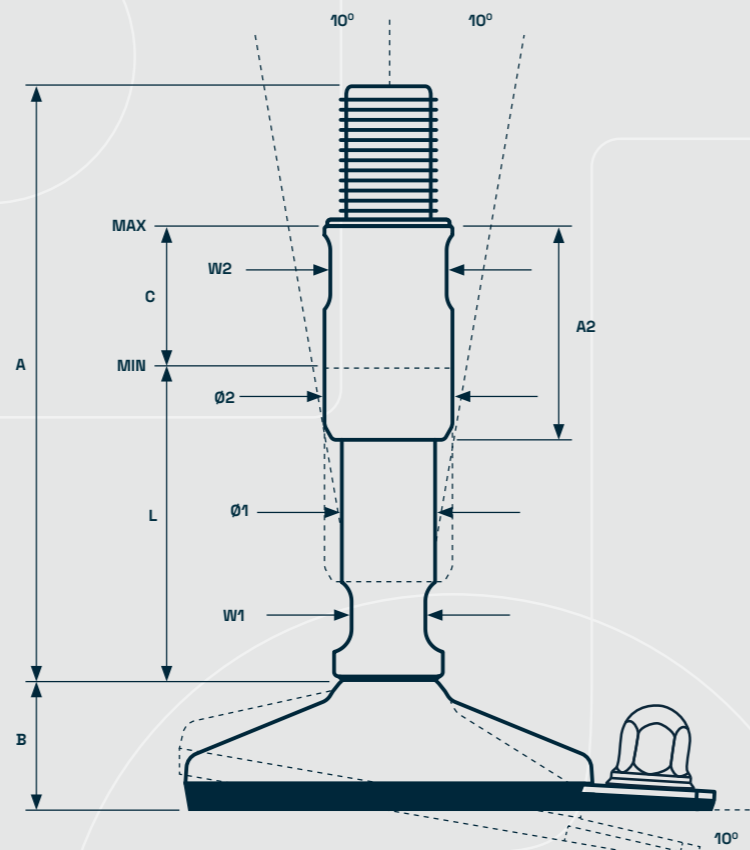
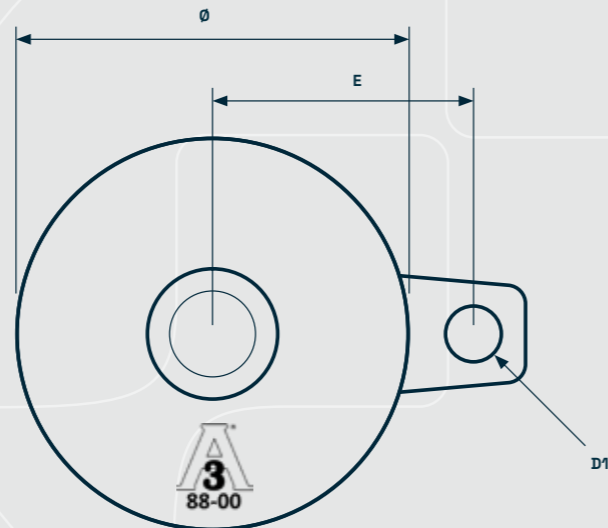
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

### Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - XH Fixing



### FOOT PLATE



### SPINDLE



### SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XH-FIX066 - XH5859 - RHOX5820

DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
2.56	1.11	1.84	0.59	9.000	XH-FIX066
3.15	1.31	2.09	0.59	15.000	XH-FIX081
4.13	1.33	2.76	0.59	22.000	XH-FIX106
4.92	1.35	3.15	0.59	32.000	XH-FIX126

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.63	30.300	XH5859
5/8-11	8.26	4.17	1/2	0.63	24.100	XH5883
3/4-10	5.91	2.99	9/16	0.75	43.800	XH3459
3/4-10	8.26	4.17	9/16	0.75	43.800	XH3483
1-8	5.91	2.99	3/4	1.00	77.500	XH1059
1-8	8.26	4.17	3/4	1.00	77.500	XH1083
1 1/4-7	5.91	2.99	1	1.25	123.400	XH5459
1 1/4-7	8.26	4.17	1	1.25	123.400	XH5483

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	1.97	1.42	RHOX5820
5/8-11	7/8	0.98	3.15	2.60	RHOX5832
3/4-10	1	1.17	1.97	1.42	RHOX3420
3/4-10	1	1.17	3.15	2.60	RHOX3432
1-8	5/4	1.36	1.97	1.42	RHOX1020
1-8	5/4	1.36	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.15	2.60	RHOX5432

Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/- 0,02 in



# Certified hygienic Leveling feet - XHG

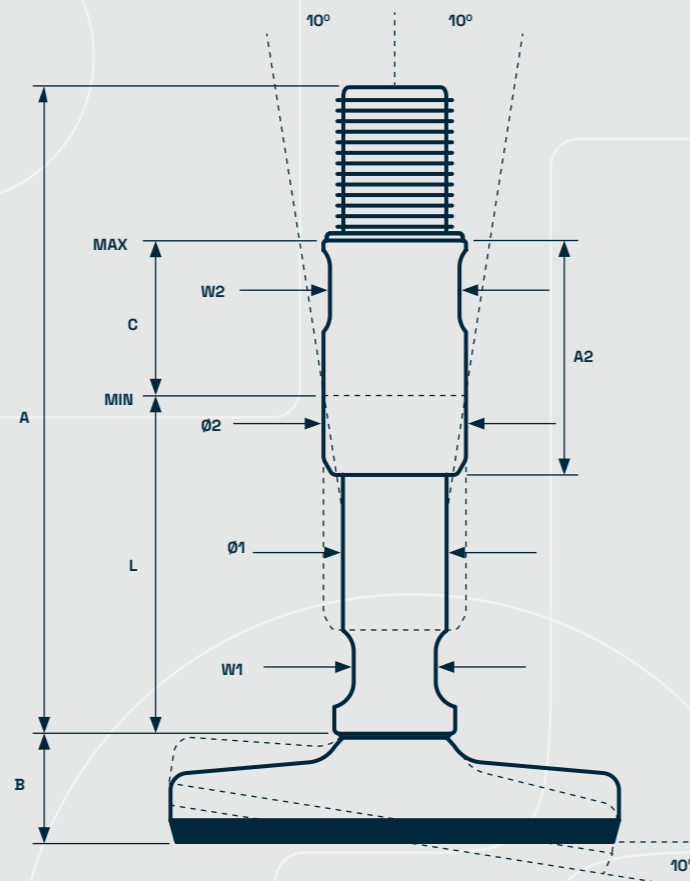
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected solid XHG leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

- Available upon request:**
- Official 3-A hygiene certificate
  - Installation instructions
  - Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XHG



## FOOT PLATE

PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHG080 - XHJG5859 - RHOX5820

DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	35.000	XHG080
4.13	0.99	55.000	XHG105
4.92	0.99	110.000	XHG125
5.87	0.99	110.000	XHG150



## SPINDLE

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.63	30.300	XHJG5859
5/8-11	8.26	4.17	1/2	0.63	24.100	XHJG5883
3/4-10	5.91	2.99	9/16	0.75	43.800	XHJG3459
3/4-10	8.26	4.17	9/16	0.75	43.800	XHJG3483
1-8	5.91	2.99	3/4	1.00	77.500	XHJG1059
1-8	8.26	4.17	3/4	1.00	77.500	XHJG1083
1 1/4-7	5.91	2.99	1	1.25	123.400	XHJG5459
1 1/4-7	8.26	4.17	1	1.25	123.400	XHJG5483



## SLEEVE

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	1.97	1.42	RHOX5820
5/8-11	7/8	0.98	3.15	2.60	RHOX5832
3/4-10	1	1.17	1.97	1.42	RHOX3420
3/4-10	1	1.17	3.15	2.60	RHOX3432
1-8	5/4	1.36	1.97	1.42	RHOX1020
1-8	5/4	1.36	3.15	2.60	RHOX1032



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Leveling feet - XHJ

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected solid XHJ leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHJ is designed to be fastened to the floor by the two fixing holes in the footplate. Certified hygienic leveling feet are always delivered with hygienic nuts.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

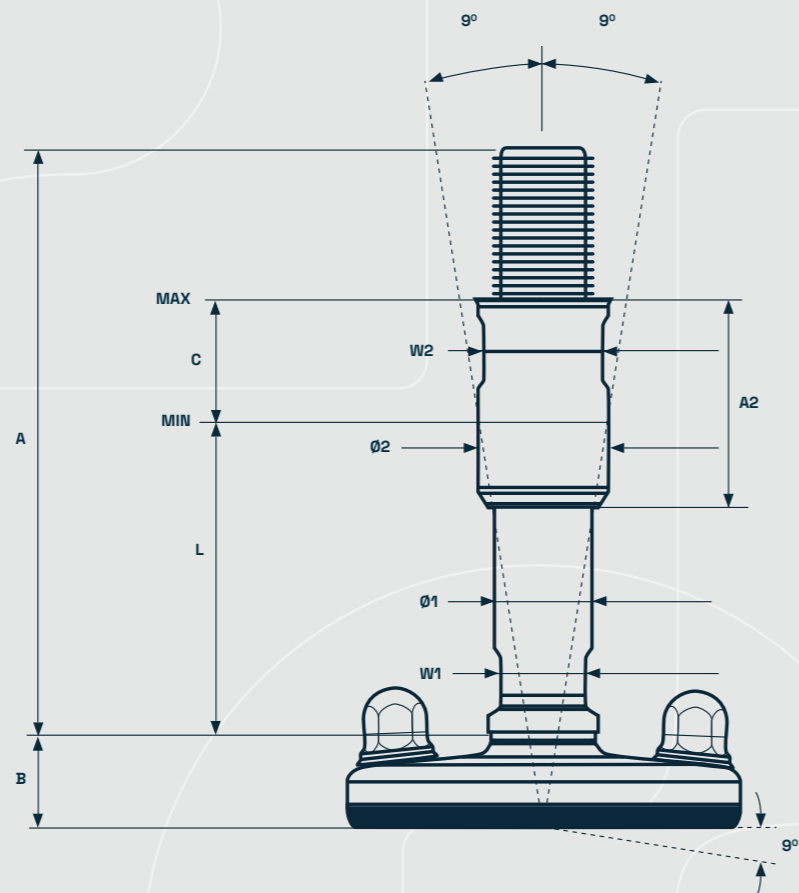
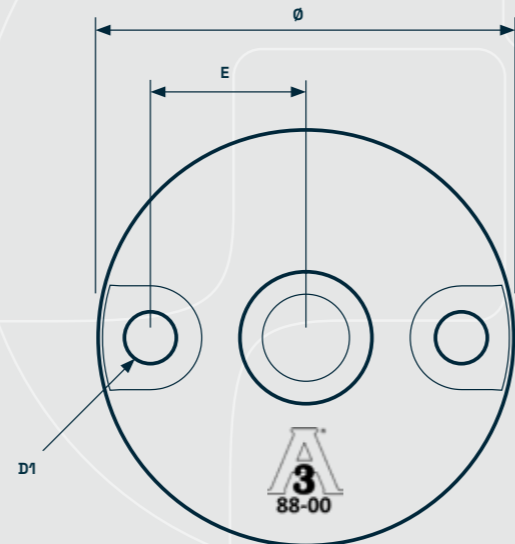
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - XHJ



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE

XHJ105 - XHJG5859 - RHOX5820

DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	1.14	0.33	35.000	XHJ080
4.13	0.99	1.50	0.51	55.000	XHJ105
4.92	0.99	1.85	0.51	110.000	XHJ125
5.87	0.99	2.44	0.51	110.000	XHJ150

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
5/8-11	6.10	3.15	1/2	0.63	30.300	XHJG5859
5/8-11	8.46	4.33	1/2	0.63	24.100	XHJG5883
3/4-10	6.10	3.15	9/16	0.75	43.800	XHJG3459
3/4-10	8.46	4.33	9/16	0.75	43.800	XHJG3483
1-8	6.10	3.15	3/4	1.00	77.500	XHJG1059
1-8	8.46	4.33	3/4	1.00	77.500	XHJG1083
1 1/4-7	6.10	2.99	1	1.25	123.400	XHJG5459
1 1/4-7	8.46	4.17	1	1.25	123.400	XHJG5483

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	2.17	1.42	RHOX5820
5/8-11	7/8	0.98	3.35	2.60	RHOX5832
3/4-10	1	1.17	2.17	1.42	RHOX3420
3/4-10	1	1.17	3.35	2.60	RHOX3432
1-8	5/4	1.36	2.17	1.42	RHOX1020
1-8	5/4	1.36	3.35	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	2.17	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.35	2.60	RHOX5432



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Leveling feet - XHT

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHT leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

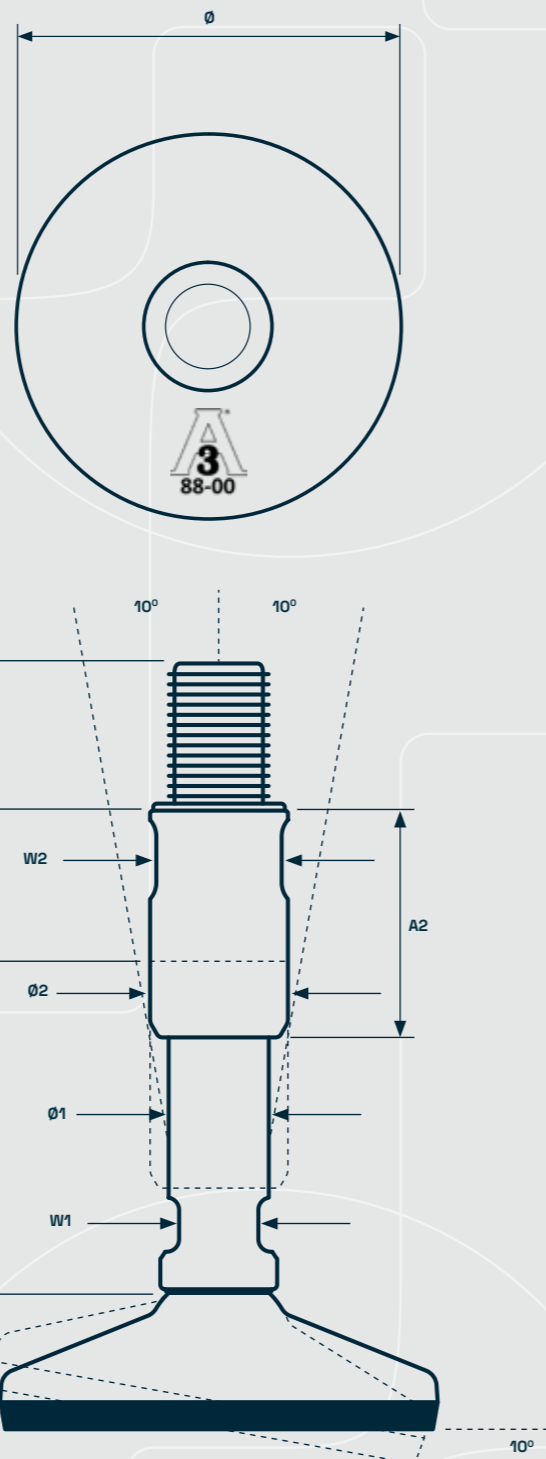
The XHT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

All movable parts are 100% hygienically sealed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

### Available upon request:

- Official 3-A hygiene certificate
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XHT



PRODUCT CODE

FOOT - SPINDLE - SLEEVE

EXAMPLE

XHT080 - XHT5859 - RHOX5820

## FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.15	1.31	15.000	XHT080
4.13	1.33	22.000	XHT105
4.92	1.35	32.000	XHT125
5.91	1.43	65.000	XHT150

## SPINDLE



THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø2 [in]	NOM LOAD [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.63	30.300	XHT5859
5/8-11	8.26	4.17	1/2	0.63	24.100	XHT5883
3/4-10	5.91	2.99	9/16	0.75	43.800	XHT3459
3/4-10	8.26	4.17	9/16	0.75	43.800	XHT3483
1-8	5.91	2.99	3/4	1.00	77.500	XHT1059
1-8	8.26	4.17	3/4	1.00	77.500	XHT1083
1 1/4-7	5.91	2.99	1	1.25	123.400	XHT5459
1 1/4-7	8.26	4.17	1	1.25	123.400	XHT5483

## SLEEVE



THREAD	W2 [in]	DIAMETER Ø1 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	1.97	1.42	RHOX5820
5/8-11	7/8	0.98	3.15	2.60	RHOX5832
3/4-10	1	1.17	1.97	1.42	RHOX3420
3/4-10	1	1.17	3.15	2.60	RHOX3432
1-8	5/4	1.36	1.97	1.42	RHOX1020
1-8	5/4	1.36	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.15	2.60	RHOX5432



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Leveling feet - XHFV

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHFV leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFV offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

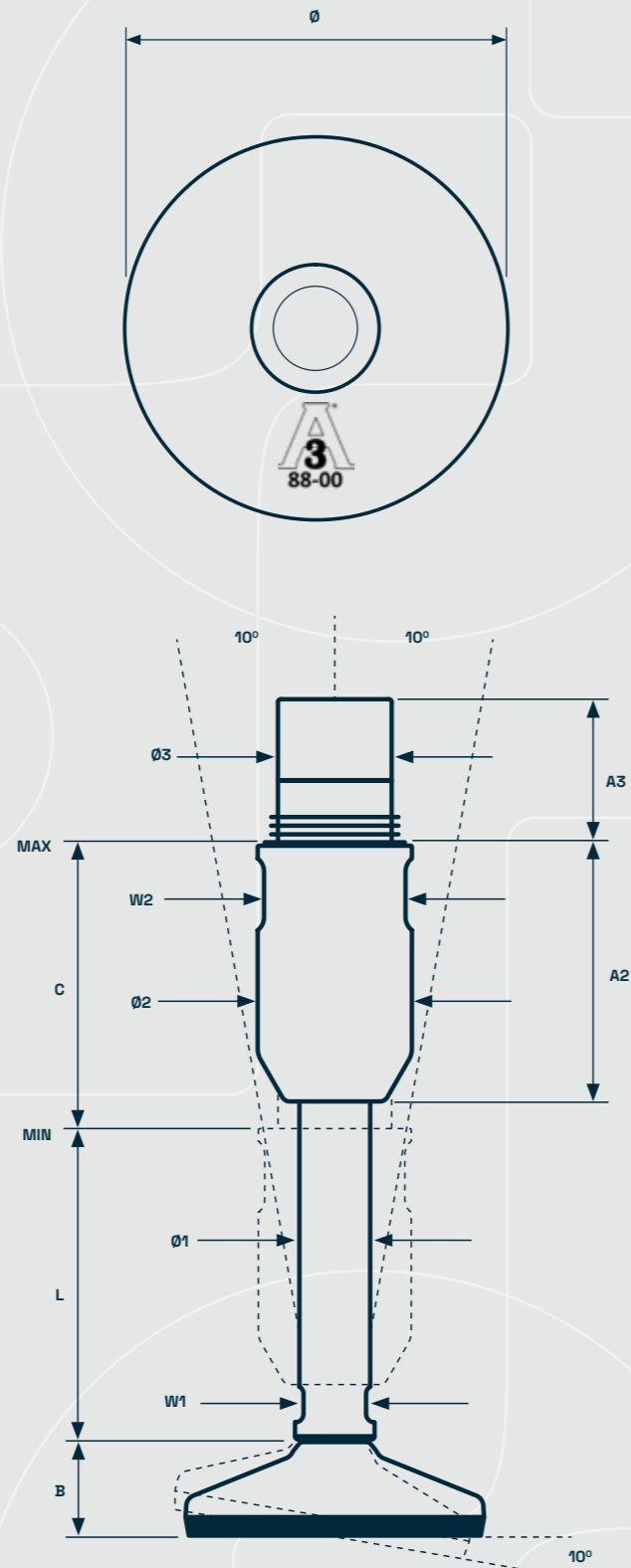
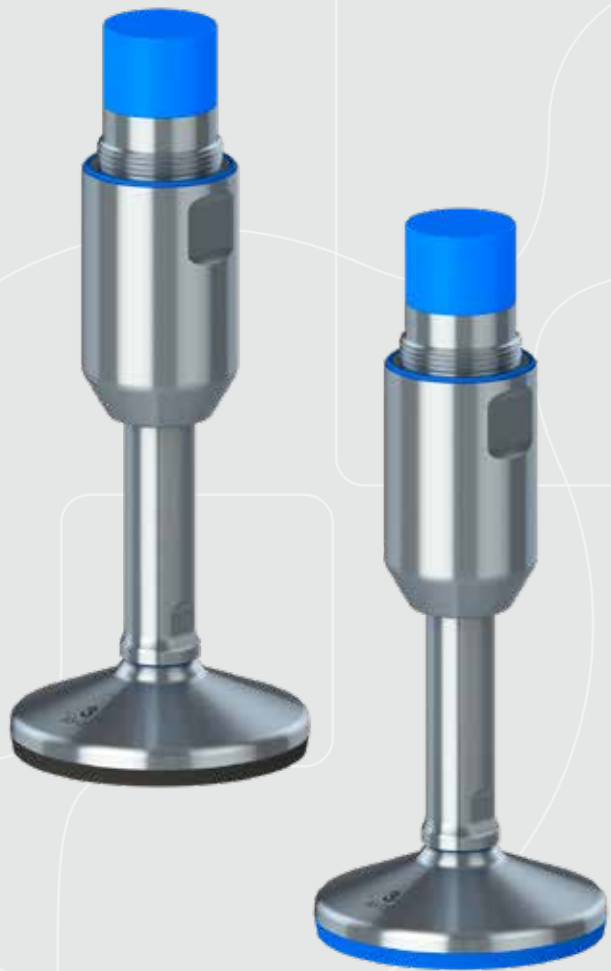
Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XHFV



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE XHFV065-XHF33144-V1

#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
2.56	1.11	9.000	XH065
3.15	1.31	15.000	XH080
4.13	1.33	22.000	XH105
4.92	1.35	32.000	XH125
5.91	1.43	65.000	XH150

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHF
M33x3.5	4.37	0.98	0.87	XHF
M33x3.5	5.94	0.98	0.87	XHF

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A2 [in]	HEIGHT A3 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A2  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Tolerance of total height = +/- 0,02 in  
 Extra long V4 = V3 + adaptor

# Certified hygienic Leveling feet - XHFV Fixing

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHFV Fixing leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFV Fixing is designed to be fastened to the floor by the fixing plate. Certified hygienic leveling feet are always delivered with hygienic nuts.

The XHFV Fixing offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

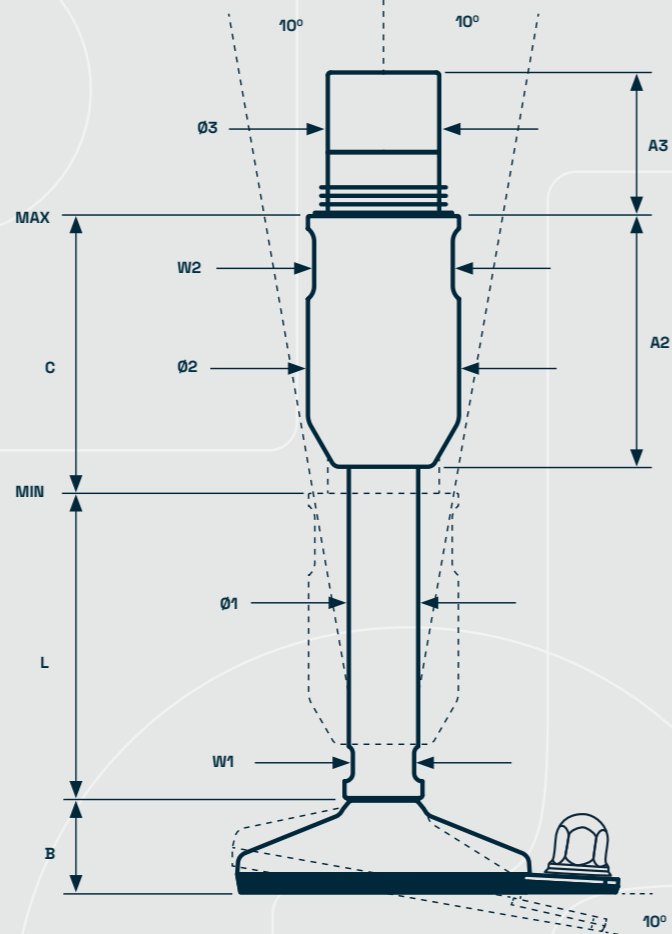
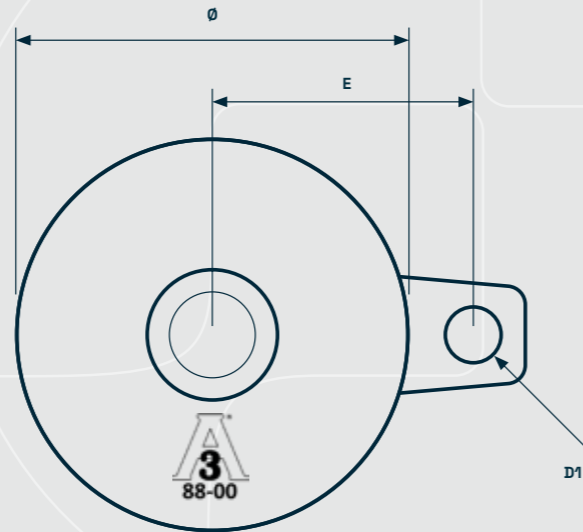
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - XHFV Fixing



PRODUCT CODE: FOOT - SPINDLE - SLEEVE  
 EXAMPLE: XHFV-FIX066-XHF33144-V1



#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
2.56	1.11	1.84	0.59	9.000	XH-FIX066
3.15	1.31	2.09	0.59	15.000	XH-FIX081
4.13	1.33	2.76	0.59	22.000	XH-FIX106
4.92	1.35	3.15	0.59	32.000	XH-FIX126

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHF
M33x3.5	4.37	0.98	0.87	XHF
M33x3.5	5.94	0.98	0.87	XHF

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A1 [in]	HEIGHT A2 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44X2	V3 + adaptor						



Total height = B + L + C + A2  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Tolerance of total height = +/- 0,02 in  
 Extra long V4 = V3 + adaptor

# Certified hygienic Leveling feet - XHFVG

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected solid XHFVG leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVG offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

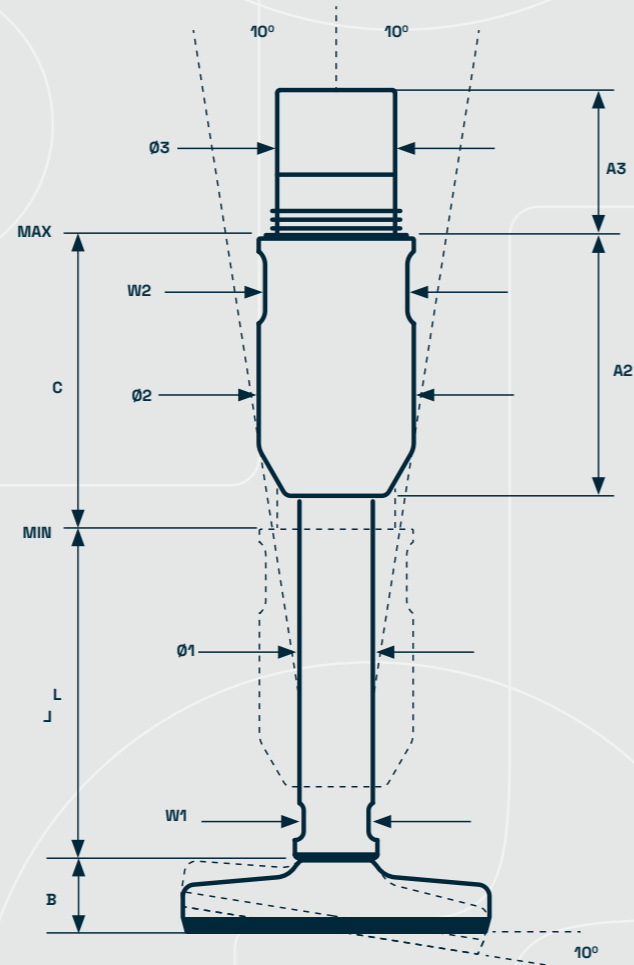
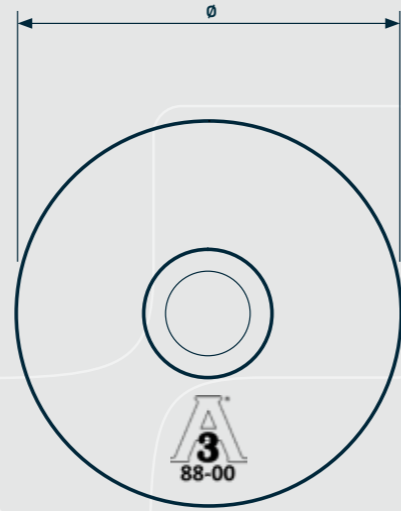
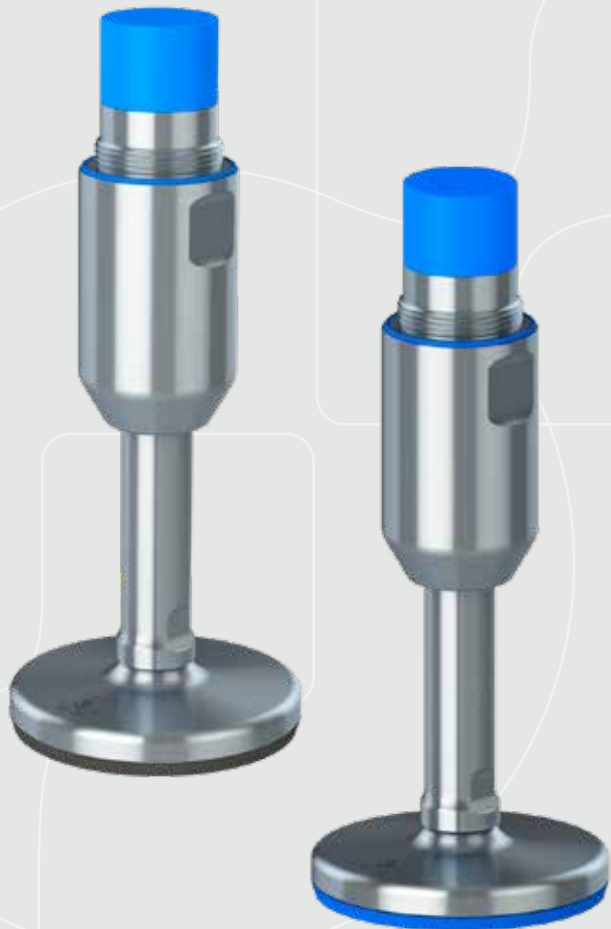
Flexible mounting with optional flanges or thread adaptor, no risk of over-adjusting the sleeve and thereby exposing the thread.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XHFVG



PRODUCT CODE FOOT - SPINDLE - SLEEVE

EXAMPLE XHFVG105 - XHFJG33144 - V1

#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	35.000	XHFVG080
4.13	0.99	55.000	XHFVG105
4.92	0.99	95.500	XHFVG125
4.09	0.99	95.500	XHFVG150

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHFJG
M33x3.5	4.37	0.98	0.87	XHFJG
M33x3.5	5.94	0.98	0.87	XHFJG

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A2 [in]	HEIGHT A3 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A3  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Tolerance of total height = +/-0,02 in



# Certified hygienic Leveling feet - XHFVJ

The design and patent protected solid XHFVJ leveling foot is the optimal choice for heavy machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVJ offers supreme height adjustability up to 100 mm as standard and has a sealed low-friction thread (lubricated for life).

The XHFVJ is designed to be fastened to the floor by the two fixing holes in the footplate. Certified hygienic leveling feet are always delivered with hygienic nuts.

Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

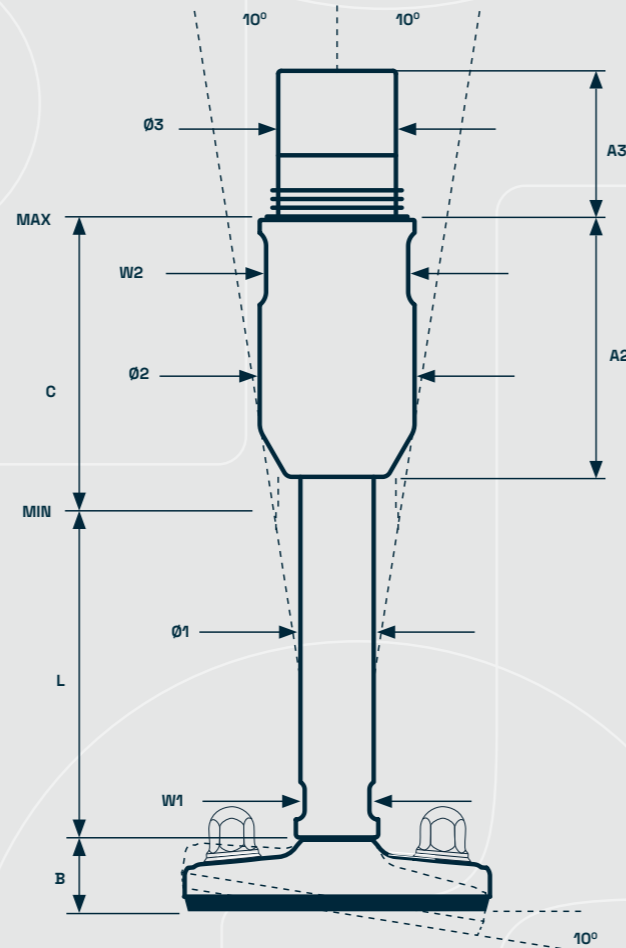
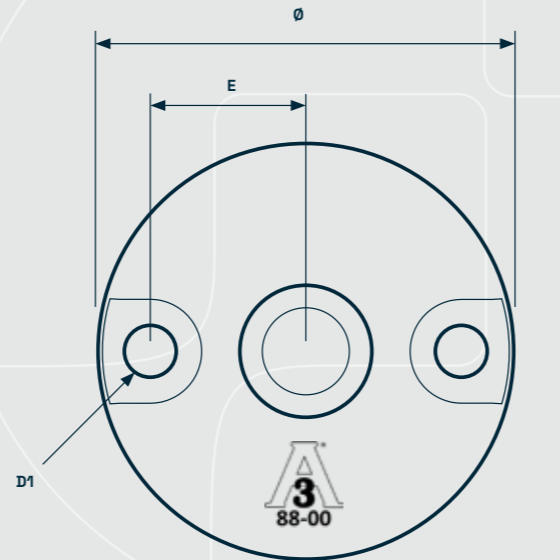
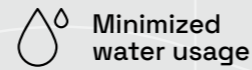
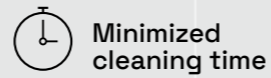
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



# Certified hygienic Leveling feet - XHFVJ



PRODUCT CODE

FOOT - SPINDLE - SLEEVE

EXAMPLE

XHFVJ105 - XHFJG33144 - V1

#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.11	0.99	1.14	0.33	35.000	XHJ080
4.13	0.99	1.50	0.51	55.000	XHJ105
4.92	0.99	1.85	0.51	95.500	XHJ125
5.87	0.99	2.44	0.51	95.500	XHJ150

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHFJG
M33x3.5	4.37	0.98	0.87	XHFJG
M33x3.5	5.94	0.98	0.87	XHFJG

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A2 [in]	HEIGHT A3 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44x2	V3 + adaptor						



Total height = B + L + C + A2  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Leveling feet - XHFVT

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHFVT leveling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

The XHFVT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

The XHFVT offers supreme height adjustment 100 mm as standard and has a sealed low-friction thread (lubricated for life).

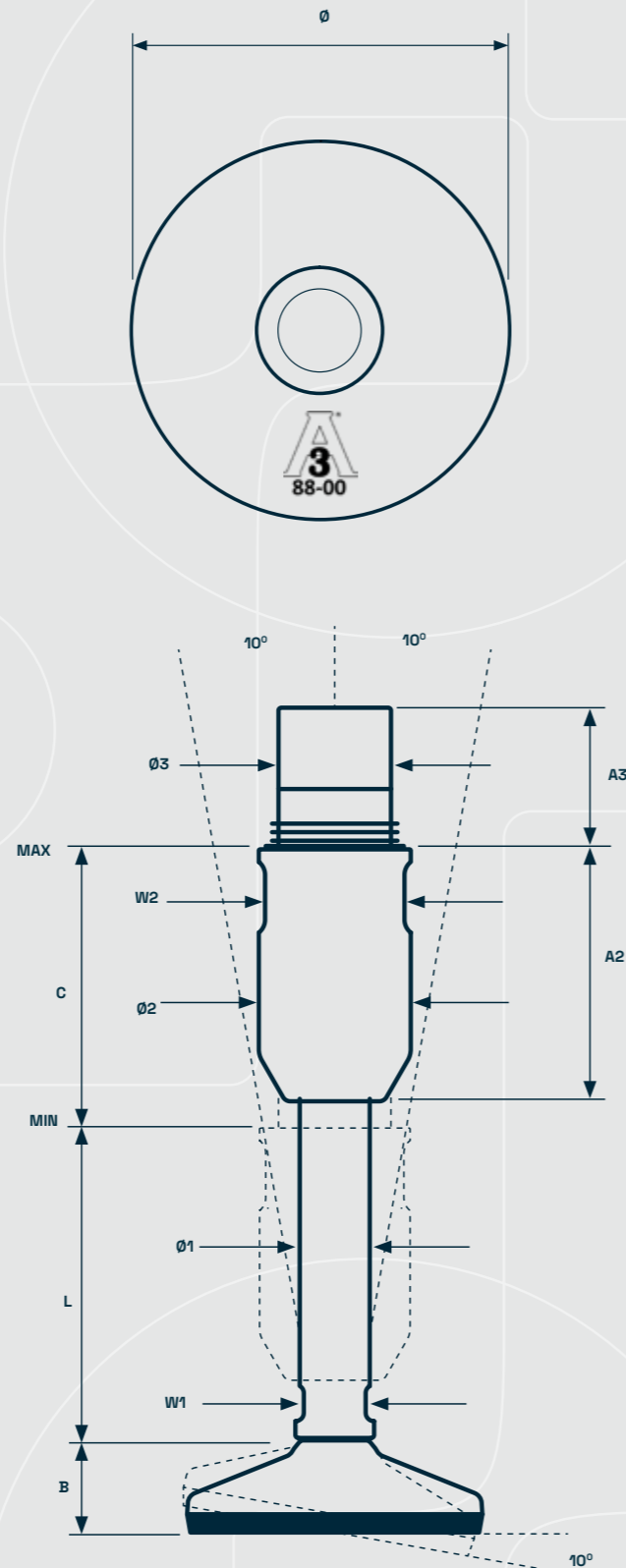
Flexible mounting with optional flanges or thread adaptor.

All movable parts are 100% hygienically sealed. All sealings are blue and therefore detectable by scanning systems.

Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Leveling feet - XHFVT



#### PRODUCT CODE

EXAMPLE

#### FOOT - SPINDLE - SLEEVE

XHFVT080 - XHFT33144 - V1

#### FOOT PLATE



DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
3.15	1.31	15.000	XHJ080
4.13	1.33	22.000	XHJ105
4.92	1.35	32.000	XHJ125
5.91	1.43	70.000	XHJ150

#### SPINDLE



THREAD	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	W1 [in]	ITEM CODE
M33x3.5	2.80	0.98	0.87	XHFT
M33x3.5	4.37	0.98	0.87	XHFT
M33x3.5	5.94	0.98	0.87	XHFT

#### SLEEVE



THREAD	ADJUSTMENT C [in]	HEIGHT A2 [in]	HEIGHT A3 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	W2 [in]	ITEM CODE
M44x2	3.94	2.01	3.54	2.16	1.57	1.97	V1
M44x2	3.94	3.58	1.97	2.16	1.57	1.97	V2
M44x2	3.94	5.16	0.39	2.16	1.57	1.97	V3
M44X2	V3 + adaptor						



Total height = B + L + C + A2  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Weighing leveling feet - XHW

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XHW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

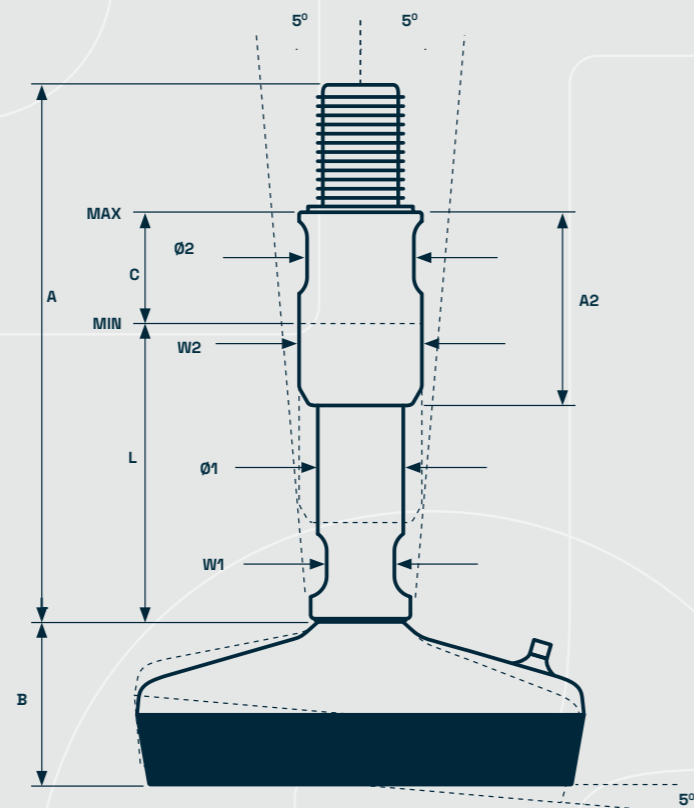
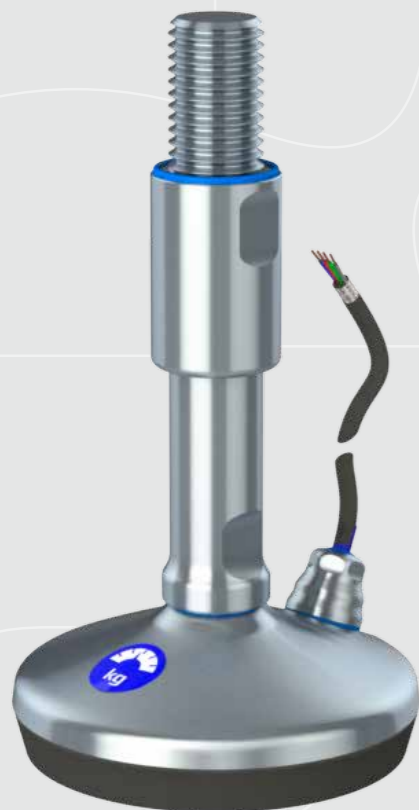
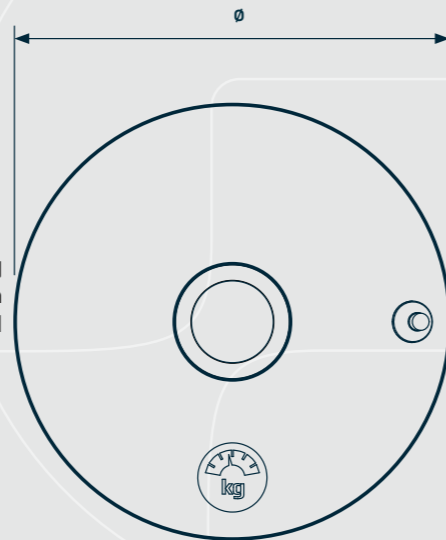
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHW leveling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30kg to 5000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

### Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Weighing leveling feet - XHW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE      FOOT - SPINDLE - SLEEVE - LOAD CELL

EXAMPLE      XHW105 - XHM123459 - RHOX3420 - PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	3.15	1.54	30/50/100/200/300	XHW080
105	4.13	1.57	30/50/100/200/300	XHW105
125	4.93	1.77	500/1000/2000/3000/5000	XHW125
150	5.91	1.81	500/1000/2000/3000/5000	XHW150

THREAD [metric]	HEIGHT A [in]	HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
3/4-10	5.91	2.99	9/16	0.94	69.200	XHM123459
3/4-10	8.82	4.17	9/16	0.94	69.200	XHM123483
1-8	5.91	2.99	3/4	1.18	110.200	XHM121059
1-8	8.82	4.17	3/4	1.18	110.200	XHM121083
1 1/4-7	5.91	2.99	1	1.26	160.200	XHM125459
1 1/4-7	8.82	4.17	1	1.26	160.200	XHM125483

THREAD [metric]	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	1.17	1.97	1.42	RHOX5820
5/8-11	7/8	1.17	3.15	2.60	RHOX5832
3/4-10	1	1.36	1.97	1.42	RHOX3420
3/4-10	1	1.36	3.15	2.60	RHOX3432
1-8	5/4	1.55	1.97	1.42	RHOX1020
1-8	5/4	1.55	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.95	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.95	3.15	2.60	RHOX5432

LOAD CELL MIN. THREAD [OUTPUT] 2mV/V 4-20mA

	30 KG	50 KG	100 KG	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1		PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
						PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for load cell or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Weighing leveling feet - XHGW

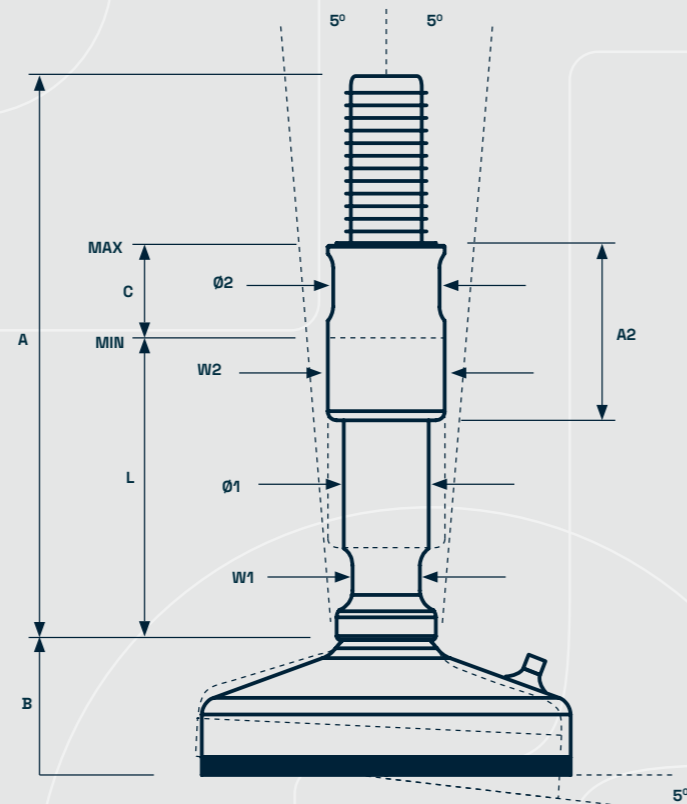
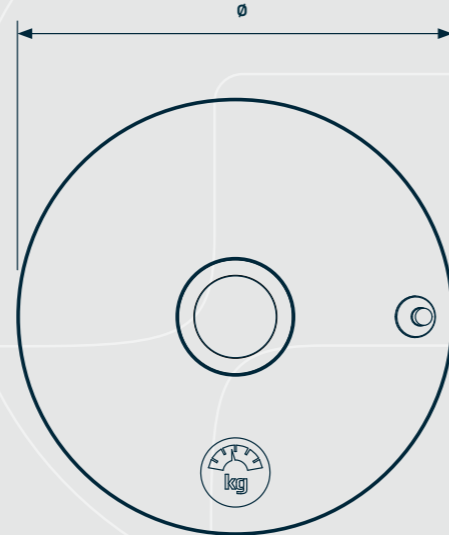
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHGW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria
- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

#### Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Weighing leveling feet - XHGW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHGW105	XHM123459	RHOX3420	PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	4.09	1.54	30/50/100/200/300	XHGW105
150	5.87	1.77	500/1000/2000/3000/5000	XHGW150

THREAD [metric]	HEIGHT A [in]	HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
3/4-10	5.91	2.99	9/16	0.94	69.200	XHM123459
3/4-10	8.82	4.17	9/16	0.94	69.200	XHM123483
1-8	5.91	2.99	3/4	1.18	110.200	XHM121059
1-8	8.82	4.17	3/4	1.18	110.200	XHM121083
1 1/4-7	5.91	2.99	1	1.26	160.200	XHM125459
1 1/4-7	8.82	4.17	1	1.26	160.200	XHM125483

THREAD [metric]	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	1.17	1.97	1.42	RHOX5820
5/8-11	7/8	1.17	3.15	2.60	RHOX5832
3/4-10	1	1.36	1.97	1.42	RHOX3420
3/4-10	1	1.36	3.15	2.60	RHOX3432
1-8	5/4	1.55	1.97	1.42	RHOX1020
1-8	5/4	1.55	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.95	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.95	3.15	2.60	RHOX5432

LOAD CELL  
MIN. THREAD  
[OUTPUT]  
2mV/V  
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for load cell or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Weighing leveling feet - XHJW

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XHJW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

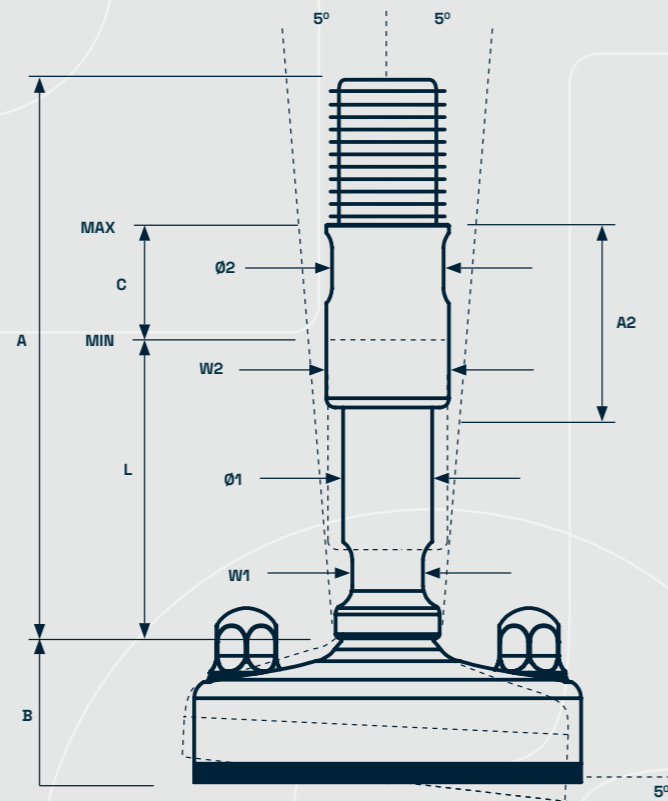
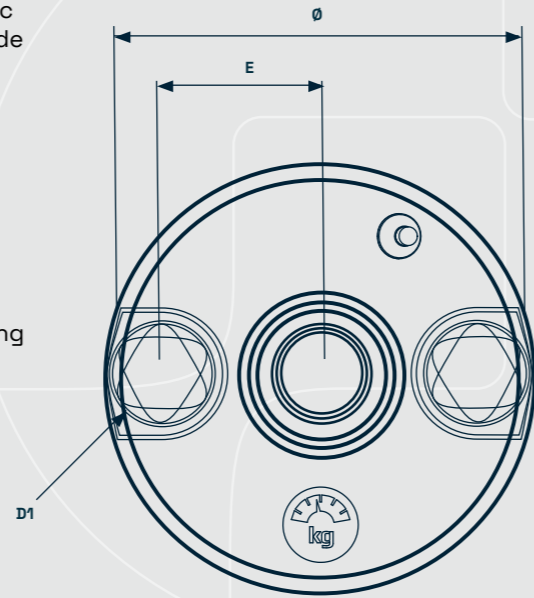
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHJW is designed to be fastened to the floor by the two fixing holes in the footplate.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

#### Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Weighing leveling feet - XHJW



PRODUCT CODE      FOOT - SPINDLE - SLEEVE - LOAD CELL

EXAMPLE      XHJW105 - XHM123459 - RHOX3420 - PR6211/32D1



#### FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	4.09	1.54	1.49	0.51	30/50/100/200/300	XHJW105
150	5.87	1.77	2.28	0.51	500/1000/2000/3000/5000	XHJW150

#### SPINDLE



THREAD [metric]	HEIGHT A [in]	HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
3/4-10	5.91	2.99	9/16	0.94	69.200	XHM123459
3/4-10	8.82	4.17	9/16	0.94	69.200	XHM123483
1-8	5.91	2.99	3/4	1.18	110.200	XHM121059
1-8	8.82	4.17	3/4	1.18	110.200	XHM121083
1 1/4-7	5.91	2.99	1	1.26	160.200	XHM125459
1 1/4-7	8.82	4.17	1	1.26	160.200	XHM125483

#### SLEEVE



THREAD [metric]	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	1.17	1.97	1.42	RHOX5820
5/8-11	7/8	1.17	3.15	2.60	RHOX5832
3/4-10	1	1.36	1.97	1.42	RHOX3420
3/4-10	1	1.36	3.15	2.60	RHOX3432
1-8	5/4	1.55	1.97	1.42	RHOX1020
1-8	5/4	1.55	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.95	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.95	3.15	2.60	RHOX5432

LOAD CELL  
MIN. THREAD  
[OUTPUT]  
2mV/V  
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Total height = A + B  
Minimum usable height = B + L  
Maximum usable height = B + L + C  
Maximum nominal load = Lowest value for load cell or spindle  
Tolerance of total height = +/-0,02 in

# Certified hygienic Weighing leveling feet - XHTW

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XHTW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

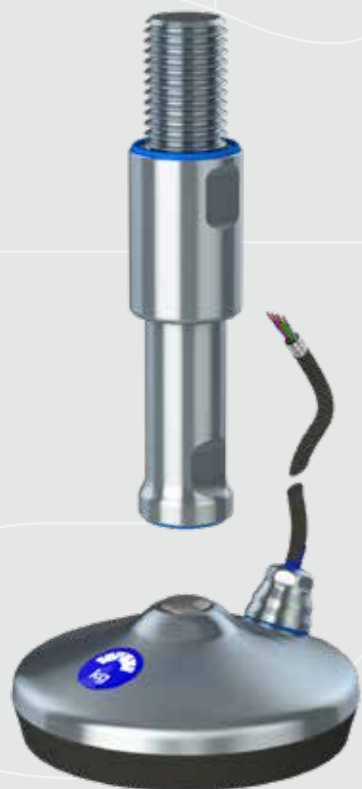
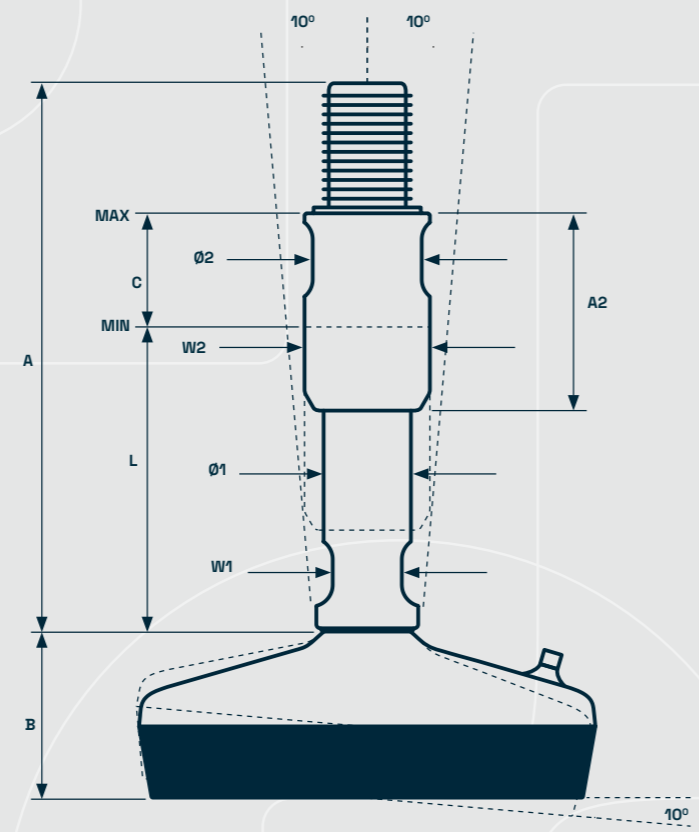
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. Additionally, the leveling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

### Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Weighing leveling feet - XHTW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE      FOOT - SPINDLE - SLEEVE - LOAD CELL

EXAMPLE      XHTW105 - XHT3459 - RHOX3420 - PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	3.15	1.54	30/50/100/200/300	XHW080
105	4.13	1.57	30/50/100/200/300	XHW105
125	4.93	1.77	500/1000/2000/3000/5000	XHW250
150	5.91	1.81	500/1000/2000/3000/5000	XHW250

THREAD [metric]	HEIGHT A [in]	HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.79	48.200	XHT5859
5/8-11	8.82	4.17	1/2	0.79	48.200	XHT5883
3/4-10	5.91	2.99	9/16	0.94	69.200	XHT3459
3/4-10	8.82	4.17	9/16	0.94	69.200	XHT3483
1-8	5.91	2.99	3/4	1.18	110.200	XHT1059
1-8	8.82	4.17	3/4	1.18	110.200	XHT1085
1 1/4-7	5.91	2.99	1	1.26	160.200	XHT5459
1 1/4-7	8.82	4.17	1	1.26	160.200	XHT5483

THREAD [metric]	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	1.17	1.97	1.42	RHOX5820
5/8-11	7/8	1.17	3.15	2.60	RHOX5832
3/4-10	1	1.36	1.97	1.42	RHOX3420
3/4-10	1	1.36	3.15	2.60	RHOX3432
1-8	5/4	1.55	1.97	1.42	RHOX1020
1-8	5/4	1.55	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.95	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.95	3.15	2.60	RHOX5432

LOAD CELL MIN. THREAD [OUTPUT] 2mV/V 4-20mA

	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1										
PR6211/51D1										
PR6211/12D1										
PR6211/13D1										
PR6211/32D1										
PR6251/52L										
PR6251/13L										
PR6251/23L										
PR6251/33L										
PR6251/53L										
PR6251/52LA										
PR6251/13LA										
PR6251/23LA										
PR6251/33LA										
PR6251/53LA										



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for load cell or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Weighing leveling feet - XHGTW

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected XHGTW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels in environments with strict hygienic requirements. The load cell is secured, guided and protected inside the foot.

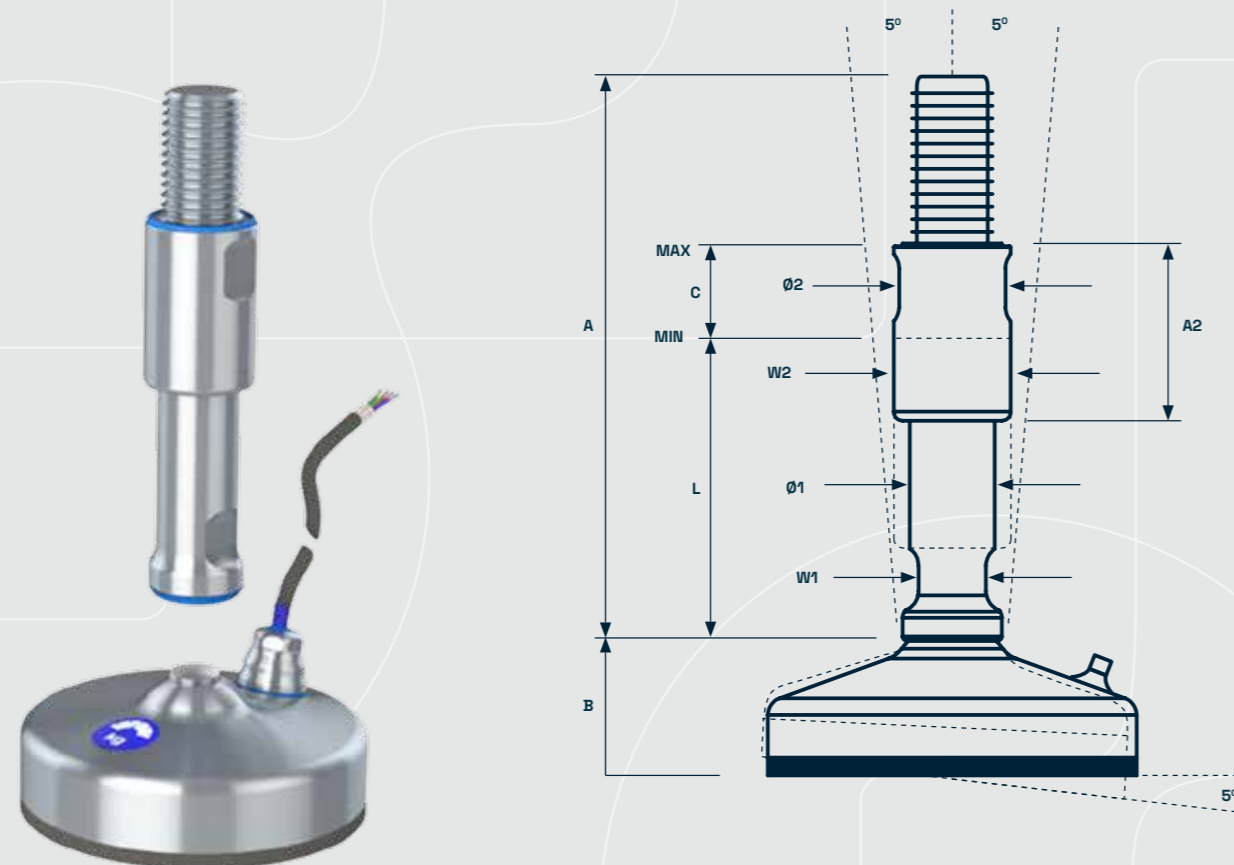
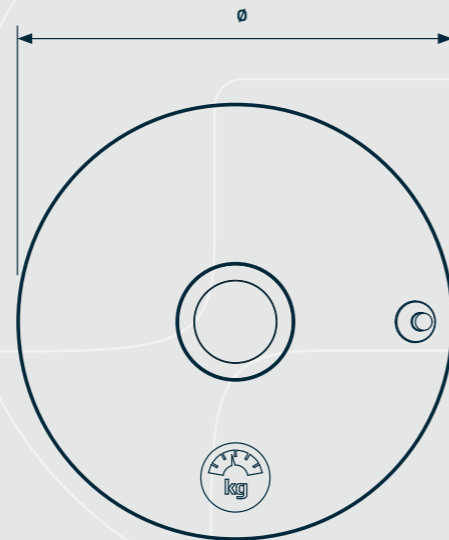
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHGTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Designed according to the 3-A and EHEDG hygienic standards
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

#### Available upon request:

- Datasheet
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Weighing leveling feet - XHGTW



FOOT PLATE



SPINDLE



SLEEVE



PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHGTW105	XHT4359	RHOX3420	PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	4.09	1.54	30/50/100/200/300	XHGTW105
150	5.87	1.77	500/1000/2000/3000/5000	XHGTW150

THREAD [metric]	HEIGHT A [in]	HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	NOM LOAD [N]	ITEM CODE
5/8-11	5.91	2.99	1/2	0.79	48.200	XHT5859
5/8-11	8.82	4.17	1/2	0.79	48.200	XHT5883
3/4-10	5.91	2.99	9/16	0.94	69.200	XHT3459
3/4-10	8.82	4.17	9/16	0.94	69.200	XHT3483
1-8	5.91	2.99	3/4	1.18	110.200	XHT1059
1-8	8.82	4.17	3/4	1.18	110.200	XHT1083
1 1/4-7	5.91	2.99	1	1.26	160.200	XHT5459
1 1/4-7	8.82	4.17	1	1.26	160.200	XHT5483

THREAD [metric]	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A2 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	1.17	1.97	1.42	RHOX5820
5/8-11	7/8	1.17	3.15	2.60	RHOX5832
3/4-10	1	1.36	1.97	1.42	RHOX3420
3/4-10	1	1.36	3.15	2.60	RHOX3432
1-8	5/4	1.55	1.97	1.42	RHOX1020
1-8	5/4	1.55	3.15	2.60	RHOX1032
1 1/4-7	1 1/2	1.95	1.97	1.42	RHOX5420
1 1/4-7	1 1/2	1.95	3.15	2.60	RHOX5432


LOAD CELL  
MIN. THREAD  
[OUTPUT]  
2mV/V  
4-20mA

	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L	
					PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA	



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for load cell or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Seismic leveling feet - XHJSE (S)

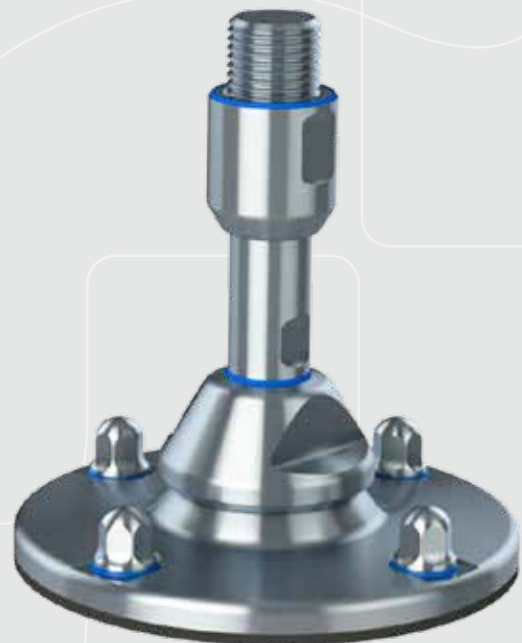
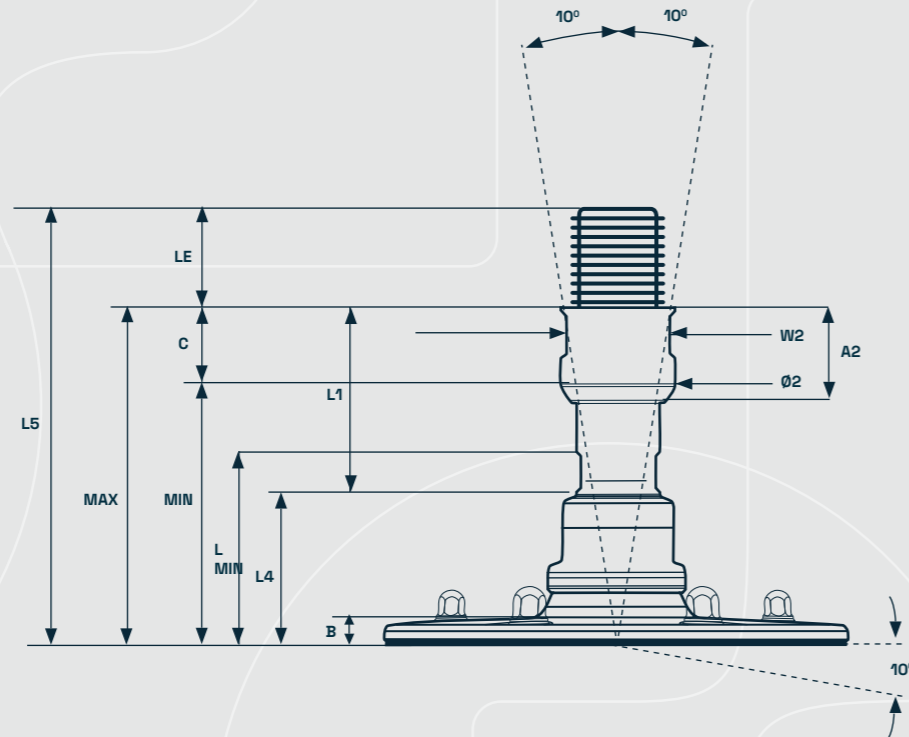
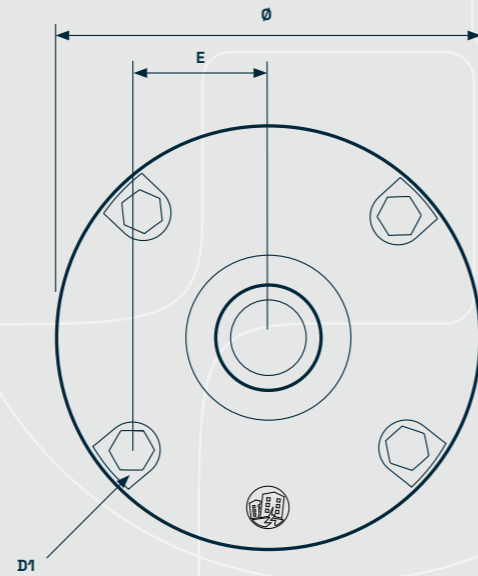
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected seismic XHJSE (S) leveling foot is the optimal choice for machinery, equipment, tanks and vessels located in areas subject to earthquakes and also has to comply with the strictest hygienic requirements.

- Total seismic stability and bolted fastening to concrete floors
- Movable set-up - no concrete moulding required
- Seismic anchors chosen and approved by our experienced partner Hilti
- Patented locking mechanism secures seismic stability
- Calculated according to international seismic standard NZS 4219
- Design verified through Finite element simulation
- Designed according to the 3-A and EHEDG hygienic standards
- Certified according to USDA hygienic standard
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

#### Available upon request:

- Official USDA hygienic certificate
- Datasheet calculations
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Seismic leveling feet - XHJSE (S)



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHJSE150(S)-XHJSE36150-RHOXS3655

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PCS]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM PULL TENSION [N]	ITEM CODE
150	149	20	3	M10x160	60	28000	XHJE150(S)
200	199	20	4	M12x155	80	38000	XHJE200(S)
250	249	15	4	M16x205	101	61.000	XHJE250(S)
300	299	32	6	M20x250	121	80000	XHJE300(S)

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	116	77	228	105	60.000	2.100	XHJSE(S)30150
M30	178	77	288	105	60.000	1.300	XHJSE(S)30210
M36	114	77	221	105	96.000	3.500	XHJSE(S)36150
M36	179	77	288	105	96.000	2.200	XHJSE(S)36210
M42	118	82	233	110	140.000	4.900	XHJSE(S)42150
M42	179	82	298	110	140.000	3.200	XHJSE(S)42210
M48	143	82	283	120	140.000	6.900	XHJSE(S)48200
M48	203	82	343	120	140.000	4.800	XHJSE(S)48260
M56	138	82	278	120	140.000	13.100	XHJSE(S)56200
M56	203	82	343	120	140.000	8.900	XHJSE(S)56260

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	LEVELLING MAX [mm]	LEVELLING MIN [mm]	ITEM CODE
M30	36	39,5	55	33	193	160	RHOXS3055
M30	36	39,5	85	63	255	192	RHOXS3085
M36	46	49,5	55	36	191	155	RHOXS3655
M36	46	49,5	85	66	256	190	RHOXS3685
M42	50	54,5	55	36	200	164	RHOXS4255
M42	50	54,5	85	66	261	195	RHOXS4285
M48	55	59,5	70	35	225	190	RHOXS4870
M48	55	59,5	100	65	285	220	RHOXS48100
M56	65	69,5	70	35	220	185	RHOXS5670
M56	65	69,5	100	65	285	220	RHOXS56100



Maximum nominal load  
Tolerance of total height

= Depends on horizontal forces, request load diagram  
= +/-0,02 in



# Certified hygienic Seismic leveling feet - XHJSE (L)

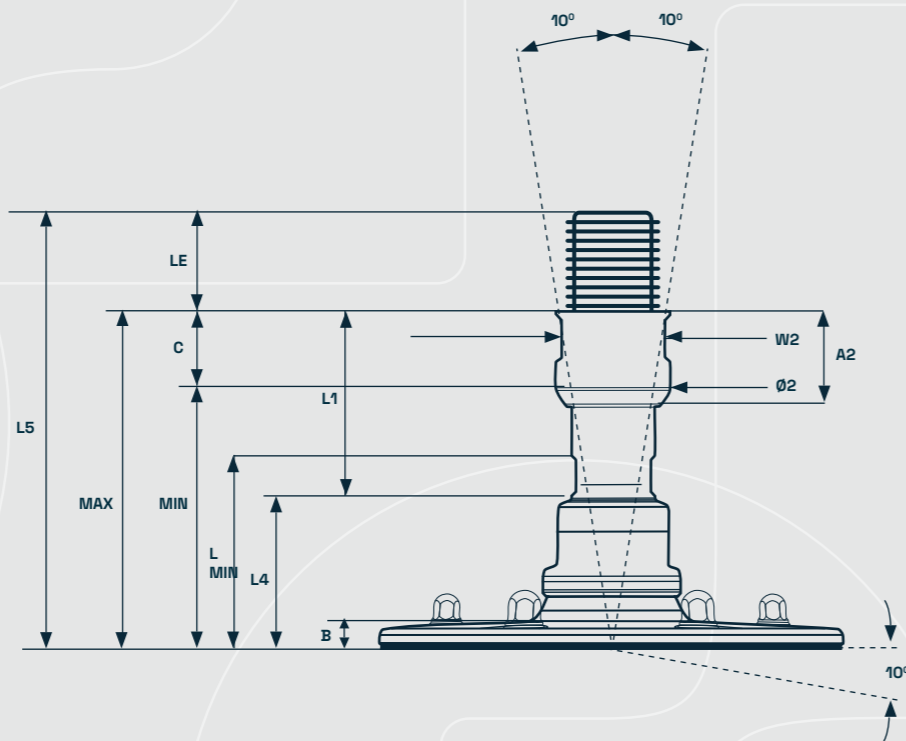
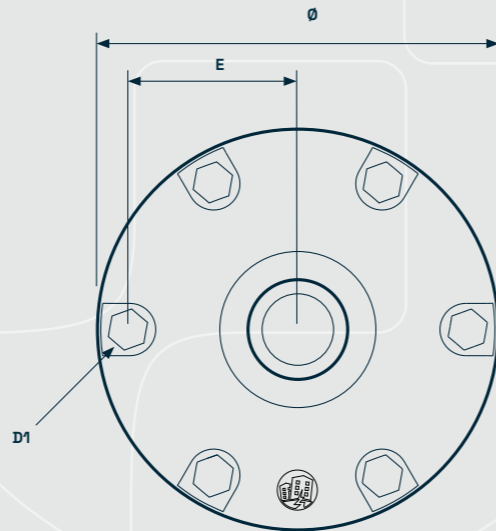
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The design and patent protected seismic XHJSE (L) leveling foot is the optimal choice for machinery, equipment, tanks and vessels located in areas subject to earthquakes and also has to comply with the strictest hygienic requirements.

- Total seismic stability and bolted fastening to concrete floors
- Movable set-up - no concrete moulding required
- Seismic anchors chosen and approved by our experienced partner Hilti
- Patented locking mechanism secures seismic stability
- Calculated according to international seismic standard NZS 4219
- Design verified through Finite element simulation
- Designed according to the 3-A and EHEDG hygienic standards
- Certified according to USDA hygienic standard
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401

#### Available upon request:

- Official USDA hygienic certificate
- Datasheet calculations
- Installation instructions
- Cleaning & maintenance instructions



# Certified hygienic Seismic leveling feet - XHJSE (L)



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHJSE300(L) - XHJSE80310 - RHOXS80115

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
250	249	20	3	M16x240	101	63000	XHJSE250(L)
300	299	20	4	M20x250	121	82000	XHJSE300(L)
350	349	20	6	M20x250	142	90.000	XHJSE350(L)
400	399	20	6	M24x330	166	126000	XHJSE400(L)

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	138	118	314	156	188.000	11.800	XHJSE(L)56200
M56	203	118	379	156	188.000	8.000	XHJSE(L)56260
M64	143	118	319	156	236.000	17.800	XHJSE(L)64200
M64	203	118	379	156	236.000	12.500	XHJSE(L)64260
M72	166	129	380	170	327.000	22.200	XHJSE(L)72250
M72	226	129	438	170	327.000	16.300	XHJSE(L)72310
M80	166	129	380	170	432.000	30.800	XHJSE(L)80250
M80	226	129	438	170	432.000	22.600	XHJSE(L)80310
M90	166	129	380	170	432.000	50.500	XHJSE(L)90250
M90	226	129	438	170	432.000	37.100	XHJSE(L)90310

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	LEVelling MAX [mm]	LEVelling MIN [mm]	ITEM CODE
M56	65	69,5	70	35	256	221	RHOXS5670
M56	65	69,5	100	65	321	256	RHOXS56100
M64	75	79,5	70	35	261	226	RHOXS6470
M64	75	79,5	100	65	321	256	RHOXS64100
M72	80	88	85	40	295	255	RHOXS7285
M72	80	88	115	70	355	285	RHOXS72115
M80	90	99,5	85	40	295	255	RHOXS8085
M80	90	99,5	115	70	355	285	RHOXS80115
M90	95	104	85	40	295	255	RHOXS9085
M90	95	104	115	70	355	285	RHOXS90115

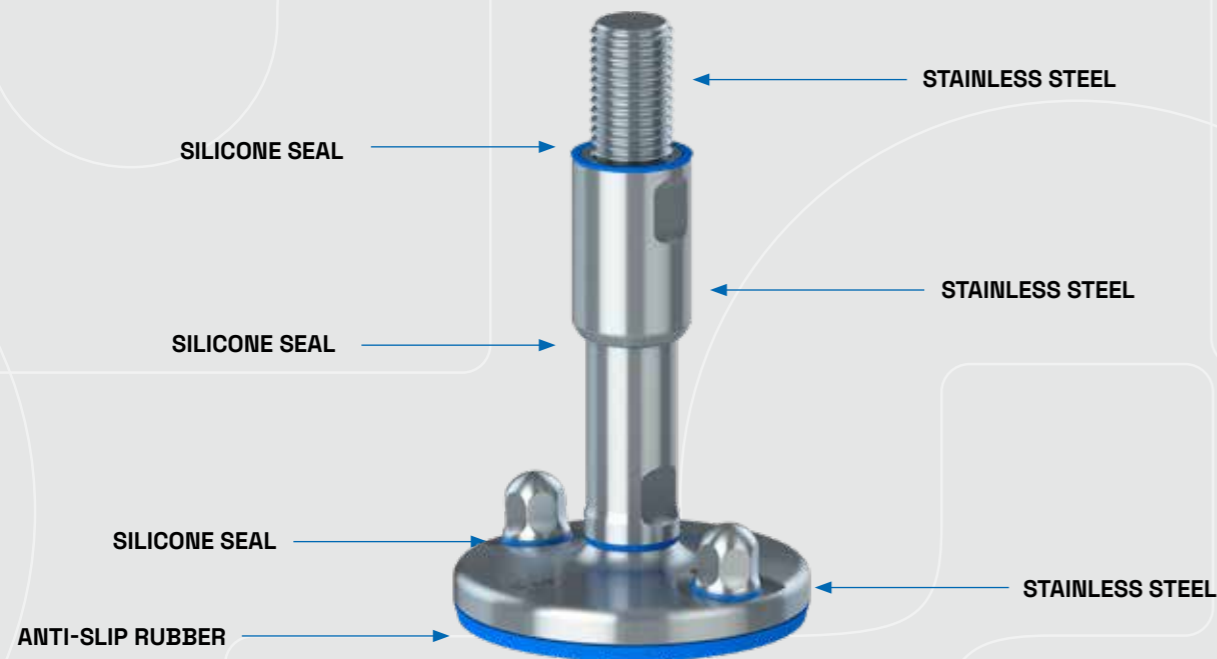


Maximum nominal load  
Tolerance of total height

= Depends on horizontal forces, request load diagram  
= +/-0,02 in

# Cleaning & Maintenance

## Leveling feet



### CLEANING

1. Rinse with water (maximum temperature ~40°C on proteins).
2. Distribute and cover all surfaces with foaming alkaline detergent for minimum 10 minutes. All standard products within the industry can be used. Follow supplier recommendations for temperature (maximum 100°C) and concentration depending on foaming detergent.
3. Rinse with hot water (maximum 100°C) with low-medium pressure (approximately 8-12 bar) until it is visibly clean. Cleaning of the leveling foot including sealings and dome-headed nuts can normally be done with a spraying nozzle pointing in a downwards direction approximately 45°. For heavy duty cleaning a more direct-oriented nozzle can be necessary. Be careful not to damage the sealings if high pressure cleaning is used. Keep nozzle at minimum 200-300 mm distance.
4. Mechanical cleaning may be necessary if the leveling foot is severely soiled. Cleaning must be executed with a soft brush or soft plastic scraper together with a more direct pointing nozzle spray. Steel scraper, steel brush or other sharp metallic tools are strictly prohibited, since the sealings can be severely damaged and the steel surfaces will be scratched.

### MAINTENANCE

1. If the sealings on the sleeve are damaged they must be replaced. Always use genuine spare parts from NGI.
2. If the sealing between the foot and the spindle is damaged, replace the whole leveling foot and install a new one. An assembled leveling foot cannot be separated.
3. Load on the leveling foot must be obtained in order for the footplate to be hygienically sealed to the floor.
4. For a leveling foot for floor fixing always make sure that the floor fixing nut or bolt is tightened as specified in the installation manual. Tighten if necessary. If replacement of nuts or washers is always use genuine spare parts from NGI.
5. If any readjustments are necessary the leveling foot and the nearest surroundings must be cleaned carefully to prevent any soil from entering the sleeve.



# Installation

## ZHJS, ZHJC, XH, XHT, XHJ, XHG

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the leveling feet and should always be handed over to the end-user.

- 0A. Prior to installation of the leveling foot ensure that the floor does not exceed maximum slope.
  - 0B. When installing, make sure that the footplate does not span over cracks, grout lines or other floor imperfections. If unavoidable, seal the cavity with bonding material under and around the edge of the footplate.
- 1A. Lift or jack up the machinery or equipment to install the leveling foot.
  - 1B. Make sure that the sealing is correctly fixed on top of the sleeve. Grease the exposed thread with FoodLube Universal Grease and make sure to remove any excess grease after installation.
  2. Install the leveling foot and use a wrench to adjust the vertical position and make sure that the engagement is no less than the diameter of the thread.

Repeat step 0A-2 for all feet supporting the machinery.

Lower the machinery so that the feet rest on the floor. Perform final height and leveling adjustments if needed and ensure that the load is uniformly distributed on all feet.

3. Use a wrench to rotate and tighten the sleeve against the machinery or equipment. Make sure that the sleeve is tightened to counter-lock the leveling foot and cover the thread.



**If the leveling foot is not fully inserted into the machinery or equipment the thread will become partly exposed. In this case, it is not correctly installed and will neither meet 3A, USDA & EHEDG hygienic demands nor load specifications.**



# Installation

## ZHFVJ, XHFV, XHFVT, XHFVJ, XHFVG

It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the leveling feet and should always be handed over to the end-user.

**0A.** Prior to installation of the leveling foot ensure that the floor does not exceed maximum slant.

**0B.** When installing, make sure that the footplate does not span over cracks, grout lines or other floor imperfections. If unavoidable, seal the cavity with bonding material under and around the edge of the footplate.

**1A.** Lift or jack up the machinery or equipment to install the leveling foot.

**1B.** Apply the optional flange to the machinery by welding or bolting. For a hygienic solution use dome-headed nuts.

**2.** Make sure that the sealing is correctly fixed on top of the sleeve and install the leveling foot using a wrench and apply Loctite if necessary.

Repeat step 0A-2 for all feet supporting the machinery.

Lower the machinery so that the feet rest on the floor. Perform final height and leveling adjustments if needed and ensure that the load is uniformly distributed on all feet.



**No maintenance lubrication is needed. The sealed low-friction thread is lubricated for life and the leveling foot is secured against over-adjustment and exposure of the thread.**



# Installation

## Floor fixing leveling feet

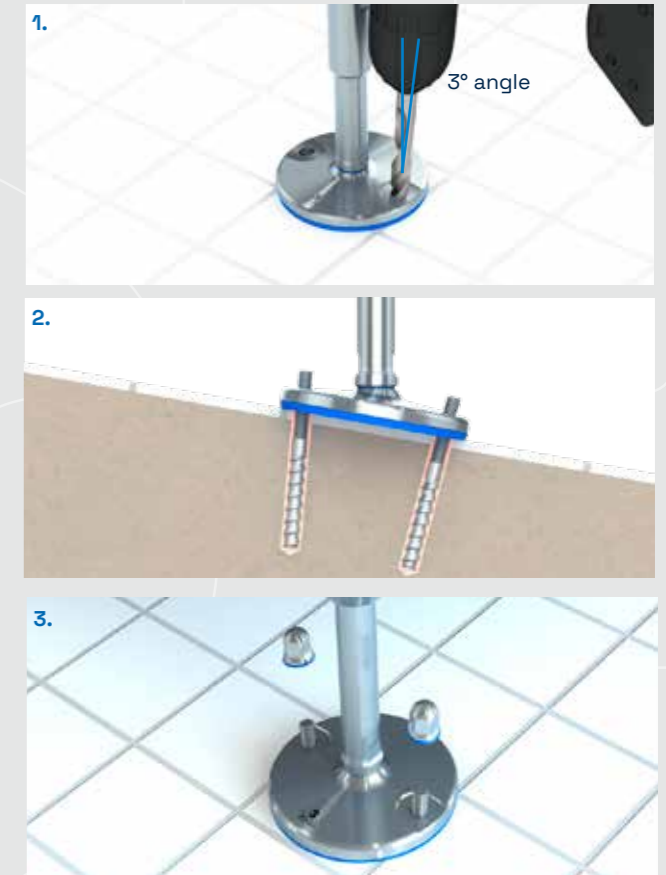
It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the leveling feet and should always be handed over to the end-user.

**1.** Hold the drill in a 3° angle so that it fits the direction of the fixing hole in the leveling foot. Drill the hole through the footplate down into the floor.

**2.** When an anchoring rod is used, make sure to allow the mortar to dry according to the manufacturer's instructions. When an expanding anchor is used, make sure to also follow the manufacturer's instructions.

**3.** Add the prescribed certified hygienic nuts using a maximum torque of 10-12 Nm.



# Declaration of conformity leveling feet

- ZHJS, ZHJC, ZHFVJ

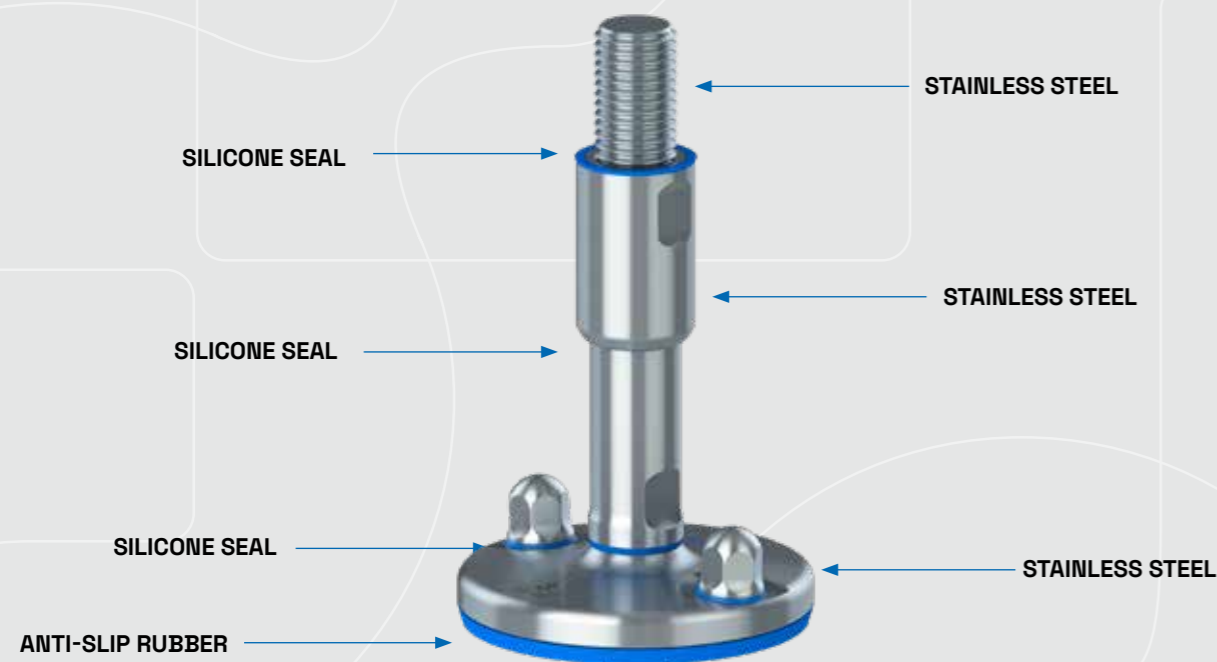


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, Denmark, hereby declares that the design is according to 3-A, USDA & EHEDG guidelines and regulations specified in the following.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity leveling feet

- ZHJS, ZHJC, ZHFVJ

## Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from AISI 304 grade stainless steel and are corrosion resistant under the specified conditions of use including those of cleaning. The elastomeric components are constructed from FDA approved NBR and TPE Santoprene® rubber material. The sealing washers are constructed from Aramid fiber material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 0.8 µm Ra. All elastomeric components and sealing washers are left as moulded with no hand trimming and all surfaces are considered smooth enough to ensure superior cleanability.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Hygienic seals permit access for easy cleaning with no inaccessible pockets or crevices.

There is no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish so that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

## Drainability and Installation

The leveling feet are designed to be self-draining and contain no horizontal ledges. Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A, USDA & EHEDG design criteria.

The 3-A Sanitary Standard 88-00 requires that when leveling feet are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of no less than 4.0 inches (102 mm) if the equipment outlines an area in which no point is more than 12.5 inches (318 mm) from its' nearest edge. If the equipment outlines an area in which any point is more than 12.5 inches (318 mm) from its' nearest edge the clearance shall be at least 6 inches (152 mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300 mm for easy cleaning and inspection.

When fasteners are required only dome nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the leveling feet.

# Declaration of conformity leveling feet

## - ZHJS, ZHJC, ZHFVJ

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

### Maintenance and Cleaning

Foot bases can be sealed to the floor if required. And the installation instructions make recommendations not to span over floor imperfections or grout lines without the addition of proprietary sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

### Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

### Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

EHEDG Class I AUX: The hygienic design criteria evaluation report concludes that the designs meet the criteria for hygienic equipment class I AUX for components situated in the non-food area and are accessible for easy cleaning without dismantling.

3-A sanitary standard for machine leveling feet and supports.

USDA Guidelines for the sanitary design and fabrication of dairy processing equipment June 2001.

### EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food.

# Declaration of conformity leveling feet

## - ZHJS, ZHJC, ZHFVJ

### The declaration of materials concerns the following Applications

#### Application:

Material type:

Compliance:

#### Steel components, e.g. spindle, sleeve and cover for foot

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.  
By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401  
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.  
NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

#### Application:

Material type:

Color:

Hardness:

Range of temperature:

#### Foot base for NGI A/S's hygienic machine feet

NBR (NNF-75)

Blue

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

Compliance:

REACH:

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020).  
Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

#### Application:

Material type:

Hardness:

Color:

Range of temperature:

Storage:

Compliance:

#### Sealing ring between steel components for NGI's machine feet.

Silicon rubber

60 Shore A

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

# Declaration of conformity leveling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

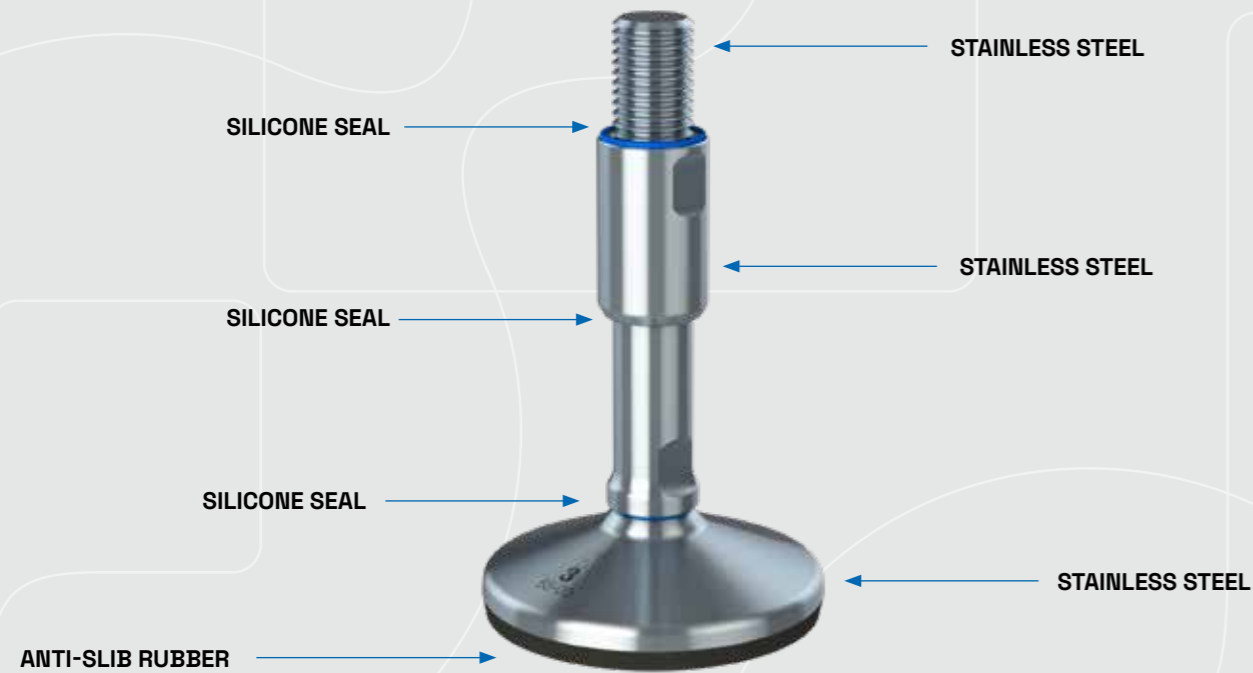


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, Denmark, hereby declares that the design is according to 3-A, USDA & EHEDG guidelines and regulations specified in the following.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity leveling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

## Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from AISI 304 grade stainless steel and are corrosion resistant under the specified conditions of use including those of cleaning. The elastomeric components are constructed from FDA approved NBR and TPE Santoprene® rubber material. The sealing washers are constructed from Aramid fiber material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 µm Ra. All elastomeric components and sealing washers are left as moulded with no hand trimming and all surfaces are considered smooth enough to ensure superior cleanability.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Hygienic seals permit access for easy cleaning with no inaccessible pockets or crevices.

There is no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish so that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

## Drainability and Installation

The leveling feet are designed to be self-draining and contain no horizontal ledges. Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A, USDA & EHEDG design criteria.

The 3-A Sanitary Standard 88-00 requires that when leveling feet are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of no less than 4.0 inches (102 mm) if the equipment outlines an area in which no point is more than 12.5 inches (318 mm) from its' nearest edge. If the equipment outlines an area in which any point is more than 12.5 inches (318 mm) from its' nearest edge the clearance shall be at least 6 inches (152 mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300 mm for easy cleaning and inspection.

When fasteners are required only dome nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the leveling feet.

# Declaration of conformity leveling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

## Maintenance and Cleaning

Foot bases can be sealed to the floor if required. And the installation instructions make recommendations not to span over floor imperfections or grout lines without the addition of proprietary sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

## Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

## Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

3-A sanitary standard for machine leveling feet and supports.

USDA Guidelines for the sanitary design and fabrication of dairy processing equipment June 2001.

## EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food.

# Declaration of conformity leveling feet

- XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

## The declaration of materials concerns the following Applications

### Application:

Material type:

Compliance:

### Steel components, e.g. spindle, sleeve and cover for foot

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection. NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

Color:

Hardness:

Range of temperature:

Compliance:

REACH:

RoHS 2 & RoHS 3

ADI free:

Bisphenols:

ODS:

Conflict Materials:

GMP:

Hazardous materials:

Phthalates:

### Application:

Material type:

Hardness:

Color:

Range of temperature:

Storage:

Compliance:

### Foot base for NGI A/S's hygienic machine feet

NBR (NNF-75)

Black & blue

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

Does not contain any substances originating from humans or animals.

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

Good manufacturing process in accordance with 2023/2006 EC.

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Does not contain phthalates. FDA: Guideline 21 CFR 177.2600

### Sealing ring between steel components for NGI's machine feet.

Silicon rubber

60 Shore A

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

# Certified hygienic Bearing houses



The only patented bearing house in the world hygienically designed and certified by EHEDG, 3-A and USDA standards with extreme easy access for cleaning from all angles.

The bearing house provide a patented waterproof sealing that allows 3 degrees misalignment and can be equipped with a high-performance ceramic bearing lubricated for life with 4-8 times extended lifetime



- X-Ray detectable
- Innovation by NIGI
- Reduce costs
- Enhanced food safety
- Plug & play installation
- Reduce energy

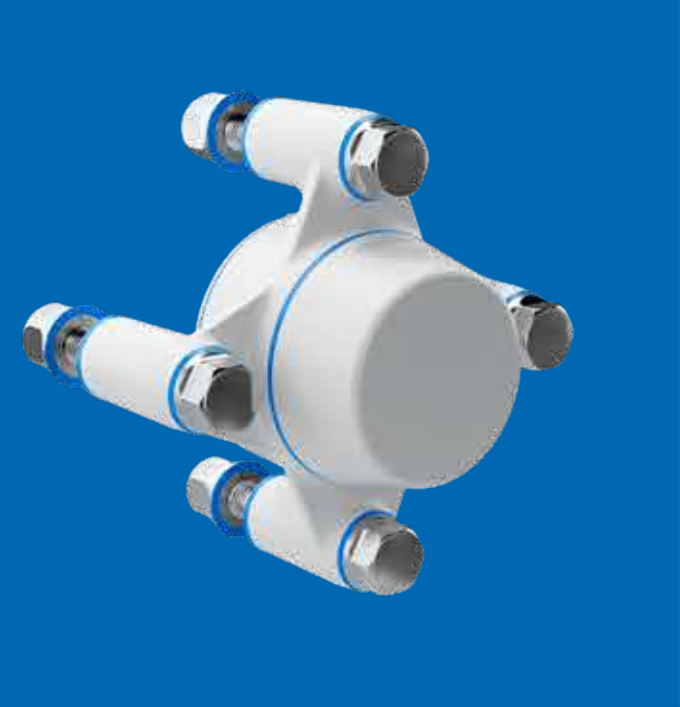


Anti-static XB series - visit our website

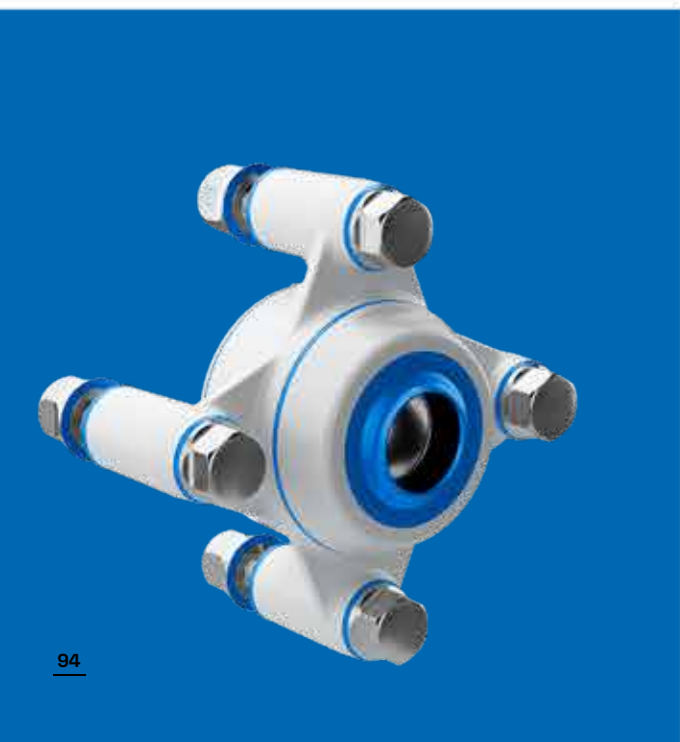
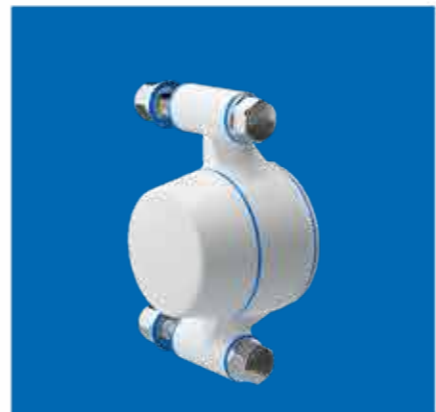
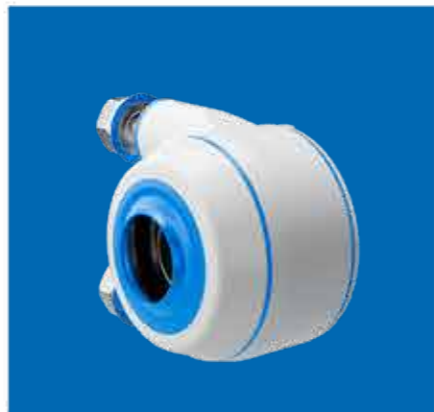
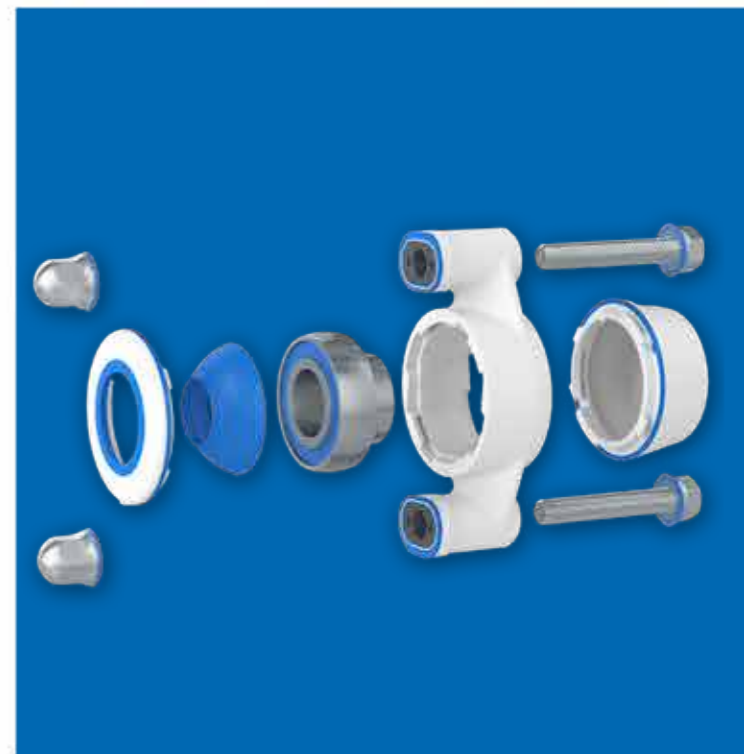
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

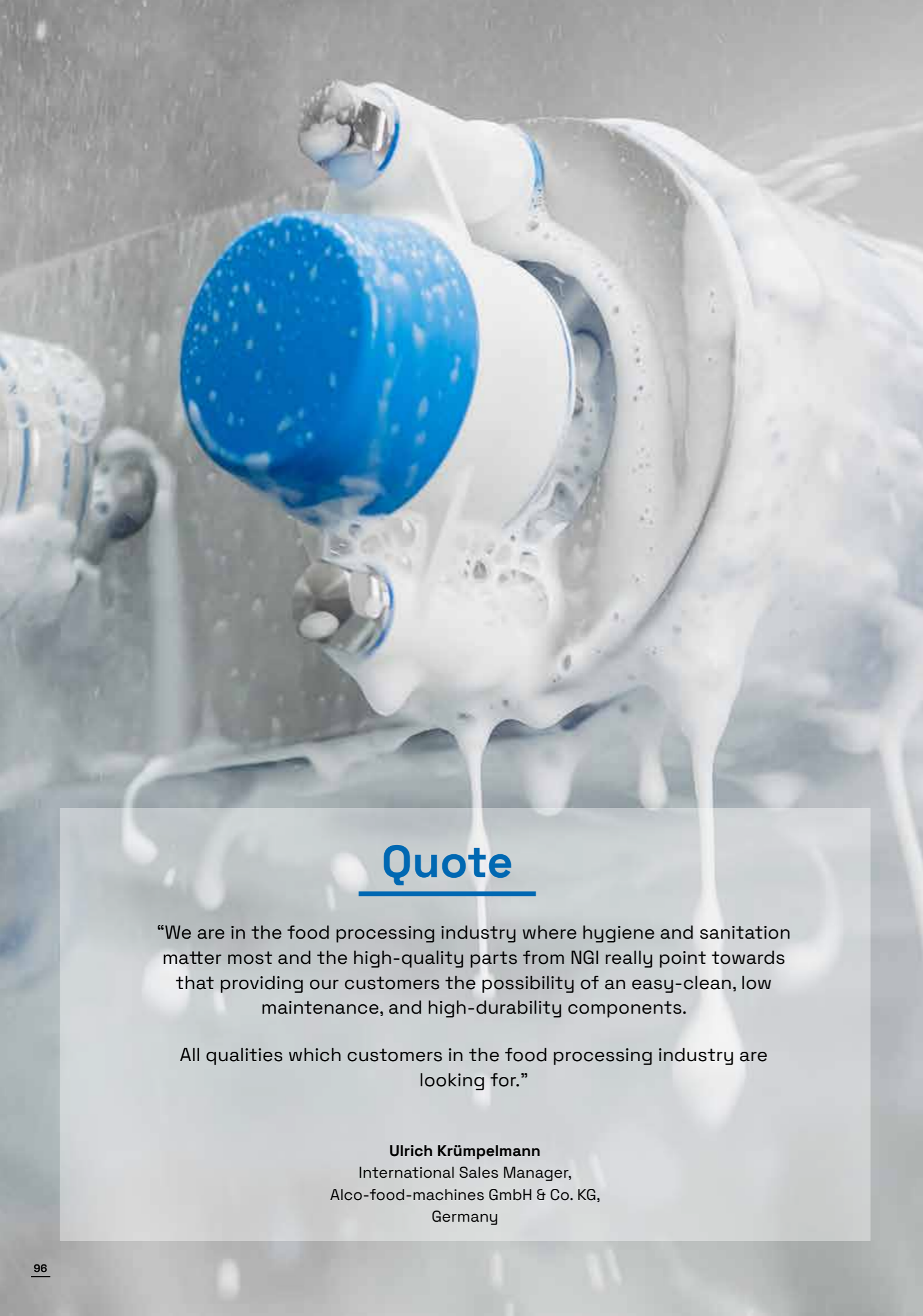
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CERTIFIED HYGIENIC  
**BEARING  
HOUSES**





## Quote

“We are in the food processing industry where hygiene and sanitation matter most and the high-quality parts from NGL really point towards that providing our customers the possibility of an easy-clean, low maintenance, and high-durability components.

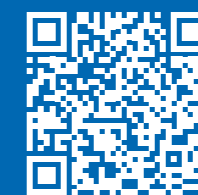
All qualities which customers in the food processing industry are looking for.”

**Ulrich Krümpelmann**  
International Sales Manager,  
Alco-food-machines GmbH & Co. KG,  
Germany

## Gain a competitive advantages with hygienic components

The hygienic standard of your production equipment is a crucial competitive parameter when it comes to winning an order or being authorized as a new supplier.

Scan the below QR code and watch a video from Alco-food-machines, Mr. Ulrich Krümpelmann, who explains how a component on a food processing machine can have influence on your competitiveness.



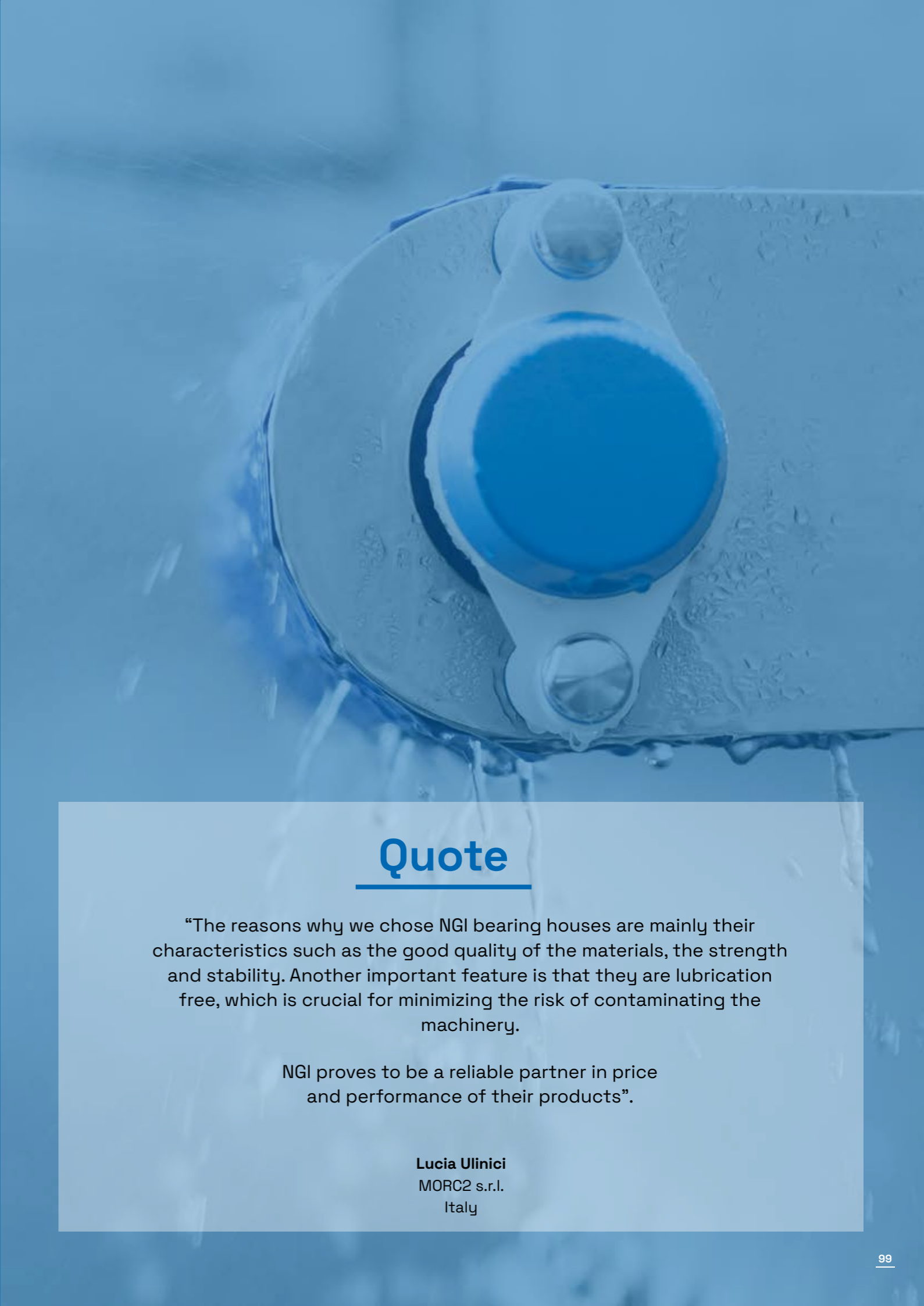


## Chose NGI hygienic components due to the many features



We have interviewed one of our Italian customers in order to learn more about how our customers experience today's challenges in regard to food safety and higher hygiene. MORC2 is a machine builder and constructs and manufactures conveyors.

You can see the whole testimonial from MORC2 on our website by scanning the QR code below.



### Quote

“The reasons why we chose NGI bearing houses are mainly their characteristics such as the good quality of the materials, the strength and stability. Another important feature is that they are lubrication free, which is crucial for minimizing the risk of contaminating the machinery.

NGI proves to be a reliable partner in price and performance of their products”.

**Lucia Ulinici**  
MORC2 s.r.l.  
Italy

# The investment pays off

Below is a conservative example of the Return on Investment of using NGI lubrication-free bearing houses compared to lubricated bearing houses 20 EUR surcharge per bearing house for 400 units and lubrication every two weeks.

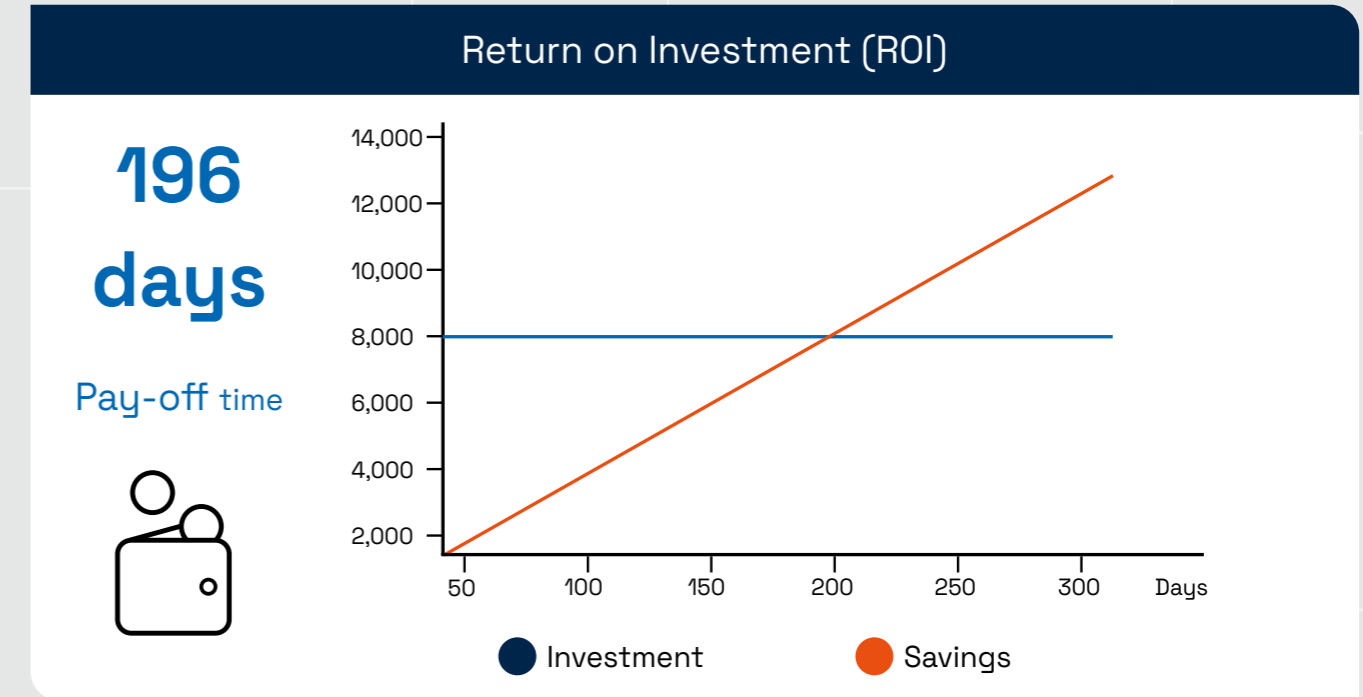
Please note that the surcharge will rarely be 20 EUR, and most end-users lubricate more frequently than every two weeks.

The investment	
Surcharge per bearing house [EUR]	20
Number of bearing houses [quantity]	400
<b>Total extra investment (competitor vs. NGI) [EUR]</b>	<b>8,000</b>
The cost savings related to lubrication	
Amount of grease per lubrication [kg]	0,015
Number of lubrications per year [quantity]	26
Cost of grease per kg [EUR]	40
<b>Total costs for grease per year [EUR]</b>	<b>6,240</b>
Cost per man hour [EUR]	25
Time for each lubrication [Minutes]	2
<b>Cost of manpower per year [EUR]</b>	<b>8,667</b>
<b>Total lubrication costs [EUR]</b>	<b>14,907</b>

The savings	
Total investment (competitor vs. NGI) [EUR]	8,000
Savings of lubrication costs [EUR]	14,907
<b>Profit after 12 months [EUR]</b>	<b>6,907</b>
<b>Pay-back after 12 months [%]</b>	<b>186%</b>
<b>Return on Investment [time]</b>	<b>196 days</b>

186% ROI after one year

# Hygiene will save your customer money



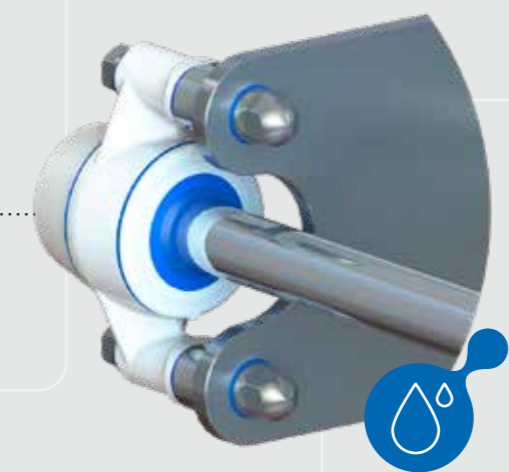
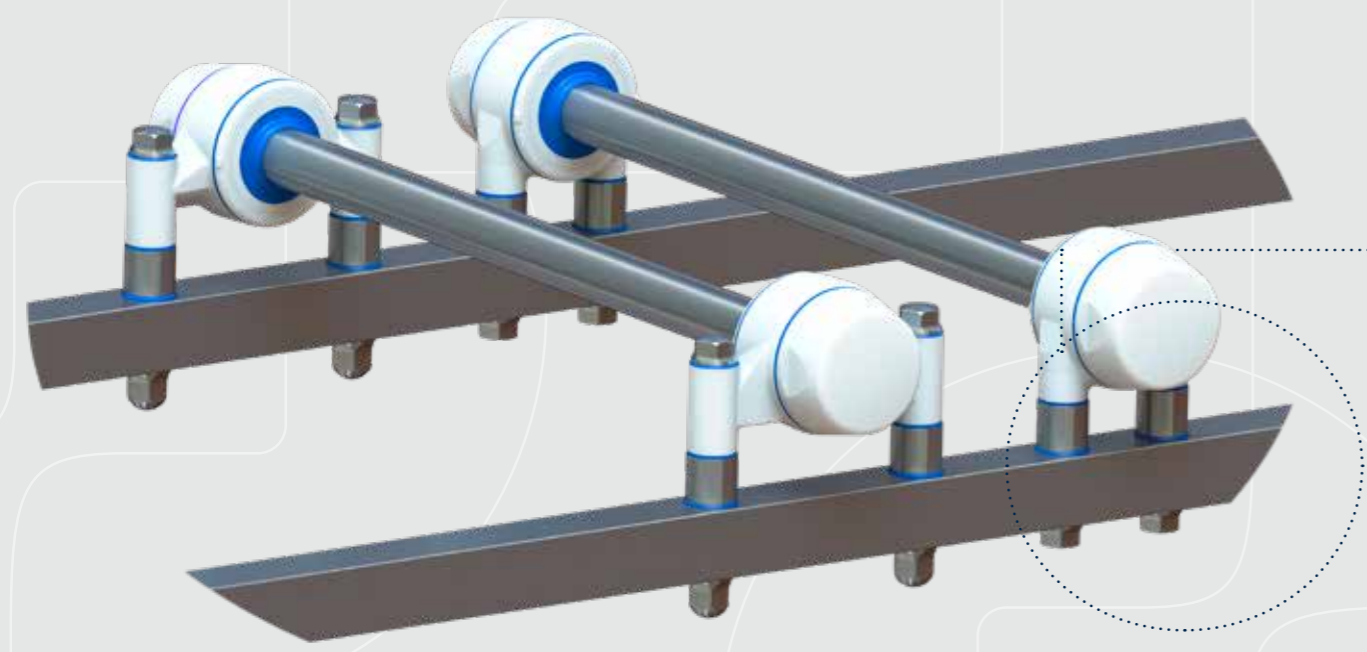
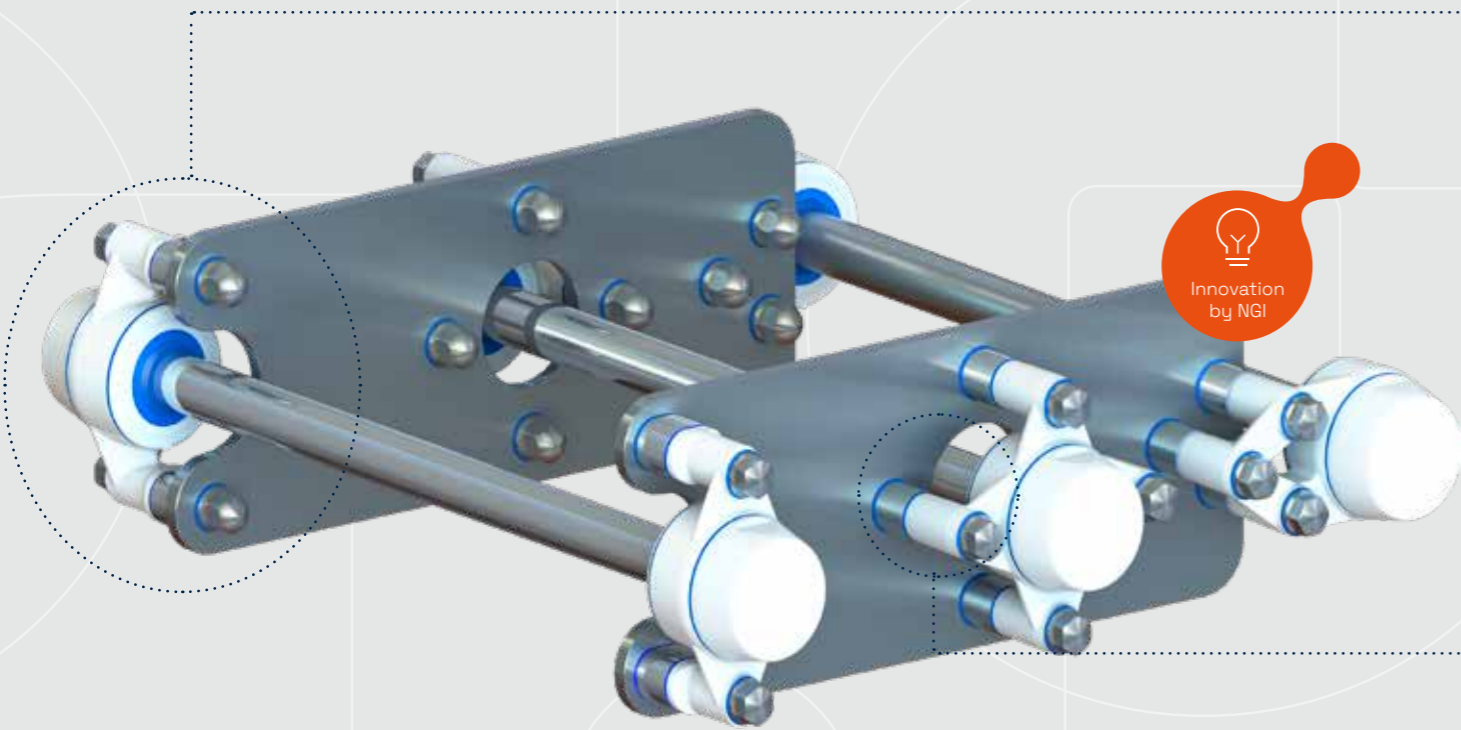
# Sustainability and reduced risk of bearing failure



- 2/3 of bearing failures are caused by lack of or faulty lubrication. Since the NGI bearings are lubrication-free, the risk of failure is considerably reduced.
- The hygienic design contributes to reducing the emission of water and detergents in the cleaning process thus reducing the environmental impact.
- The lubrication-free bearings eliminate the emission of grease spreading from the bearing to both wastewater and to other parts of the production environment.

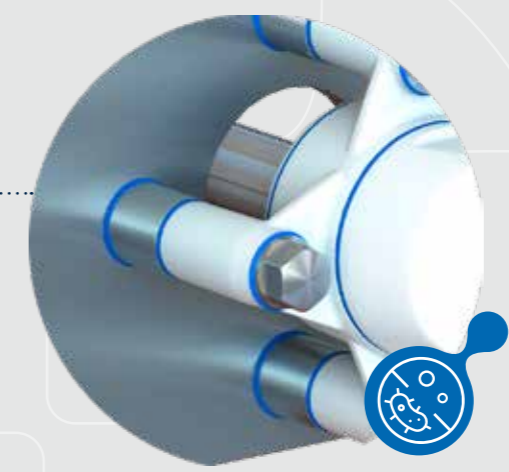
# Certified hygienic Bearing houses with spacers

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



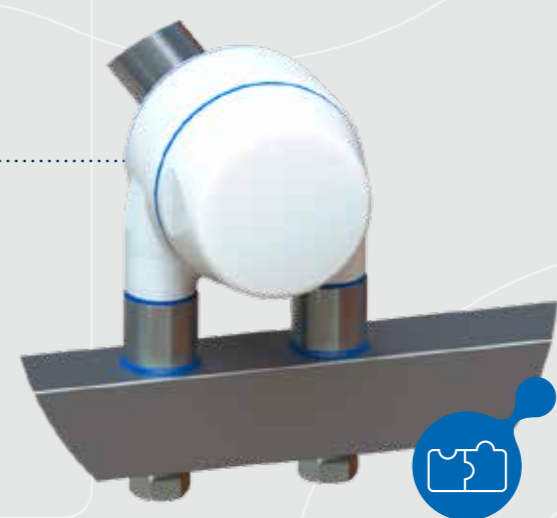
## Easy cleaning from all angles

NGI has created a bearing house that is extremely easy to clean from all angles as water can easily reach all surfaces. All transitions and connections between materials are hygienically sealed with blue sealings.



## Hygienic spacers

A high focus on hygienic design ensures that the bearing house can be cleaned behind and around the shaft and furthermore, NGI offers hygienic spacers to increase the distance to machines and equipment to over an inch as recommended by USDA.



## Installation

Installation is easy and you will be able to use your usual procedure, however, as the bearing can be turned inside the house and covers are replaceable, the bearing house from NGI is far more flexible and can be mounted in more ways than traditional bearing houses.

# Certified hygienic Bearing houses

NGI is the only manufacturer in the world of certified hygienic bearing houses designed to comply and certified by EHEDG, 3-A and USDA standards. The product group consists of five different types of bearing houses fitted with ceramic or as standard stainless steel bearings. The bearing houses are designed according to ISO3228\_2013 and fit insert bearings that meet ISO9628\_2006. This also applies to outside dimensions and it is therefore, a perfect hygienic substitution for an unhygienic solution.

Choosing bearing houses from NGI optimized with ceramic spherical ball bearings you will be able to reach optimal quality, robustness and stability. The bearing houses are lubrication free which minimizes maintenance and the need for grease, thereby, minimizing the risk of contaminating the product. Our bearing houses are IP69K-certified.

## Product Group Features

- Easy access for cleaning from all angles
- Flexible mounting - can accommodate initial misalignment
- Fitted with stainless steel bearing or ceramic bearing.
- Tested and conforms to ISO9628\_2006 & ISO3228\_2013
- Can be supplied with hygienic bolts and nuts as standard. More sizes available upon request.
- Can accommodate temperatures -20°C to +110°C depending on insert bearing
- Unique patented seal system, waterproof at more than 3° misalignment
- Produced in sturdy grilamid with co-moulded FDA-approved TPS seals
- The housing is able to withstand the same dynamic and static radial load as insert bearings
- Housing made from grilamid, a high strength High-performance PA12 and optimized for detection in the food and pharmaceutical industries
- Suitable for heavier or alternating axial load depending on the way it is locked onto the shaft
- For further information on load capacities look at bearing data sheet or contact NGI



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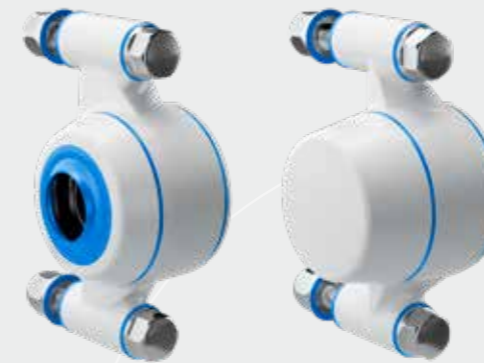


## XB2FC

### Special Features

- 2-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 3/4 in - 1 1/2 in
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

106



## XBPBC

### Special Features

- Pillow block bearing house
- Mounted perpendicularly to shaft direction
- Shaft diameter 1 in - 1 1/4 in
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

112

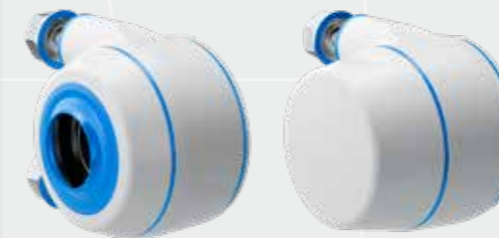


## XB3FC

### Special Features

- 3-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 3/4 in - 1 1/4 in
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

108

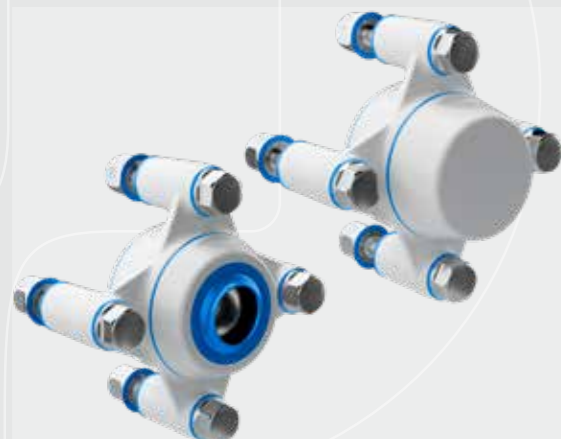


## XBTBC

### Special Features

- Tapped base bearing house
- Mounted perpendicularly to shaft direction
- Shaft diameter 1 in - 1 1/4 in
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

114



## XB4FC

### Special Features

- 4-hole flange bearing house
- Mounted parallel to shaft direction
- Shaft diameter 3/4 in - 1 1/2 in
- Can be supplied with certified hygienic nuts and bolts for maximum hygienic safety

110



## Declaration of conformity

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

124

# Certified hygienic Bearing houses - XB2FC

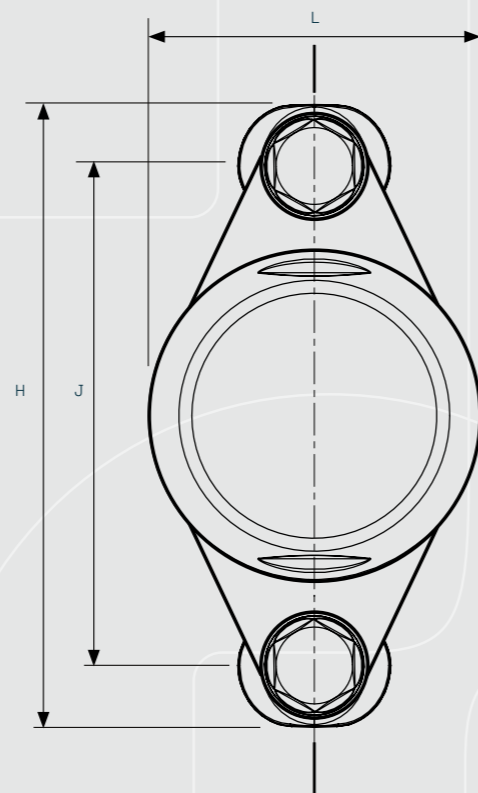
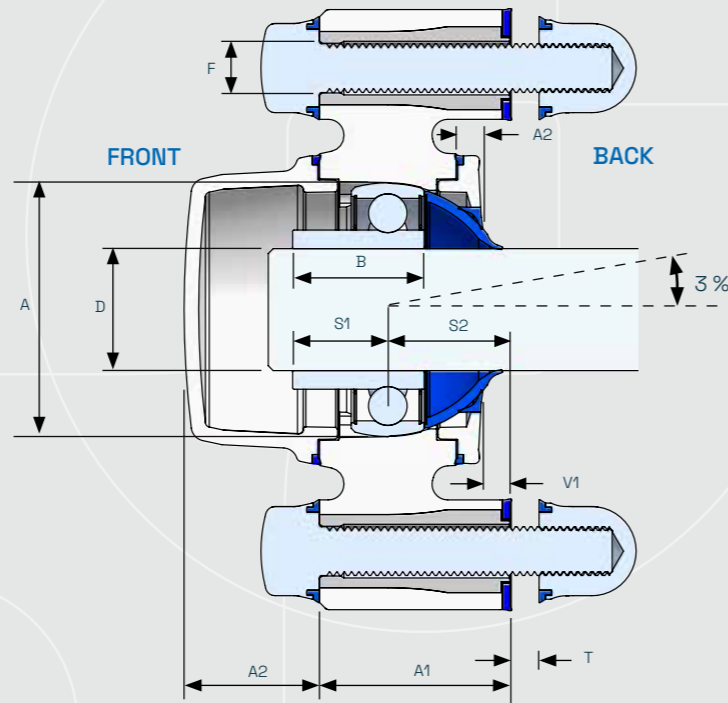
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB2FC 2-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XB2FC bearing house is mounted parallel to shaft direction

The XB2FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB2FC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



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# Certified hygienic Bearing houses - XB2FC



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB2FC52-	SSB2540--	CL(W)-	OS(W)-	BXHM1050

Size A [in]	Shaft diameter D [in]	V1 [in]	J [in]	F [in]	H [in]	I [in]	A1 [in]	S2 [in]	Item code
1.85	3/4	0.3	3.54	0.4	4.5	2.28	1.42	0.94	XB2FC47
2.05	1	0.25	3.9	0.4	4.84	2.59	1.54	0.98	XB2FC52
2.44	1 1/4	0.26	4.59	0.4	5.7	3.14	1.63	1.06	XB2FC62
2.83	1 3/8	0.28	5.12	0.48	6.31	3.61	1.83	1.18	XB2FC72
3.15	1 1/2	0.29	5.65	0.48	6.93	4	1.97	1.26	XB2FC80

Bearing ball material	Shaft diameter D [in]	Width B [in]	Distance S1 [in]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	3/4	0.98	0.71	1875	5040	10370	SSB1905
Stainless steel w. screws	1	1.06	0.77	1500	5970	11310	SSB2540
Stainless steel w. screws	1 1/4	1.18	0.87	1250	8640	15730	SSB3175
Stainless steel w. screws	1 3/8	1.34	0.96	1070	11680	20830	SSB3493
Stainless steel w. screws	1 1/2	1.46	1.04	940	13600	23550	SSB3810

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [in]	Shaft diameter D [in]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
1.85	3/4	0.18	0.57	0.66	-	
2.05	1	0.18	0.57	0.68	1.08	
2.44	1 1/4	0.23	0.8	0.92	1.41	
2.83	1 3/8	0.25	0.77	0.91	-	
3.15	1 1/2	0.26	0.88	1.03	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)

\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 µm Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3°

# Certified hygienic Bearing houses - XB3FC

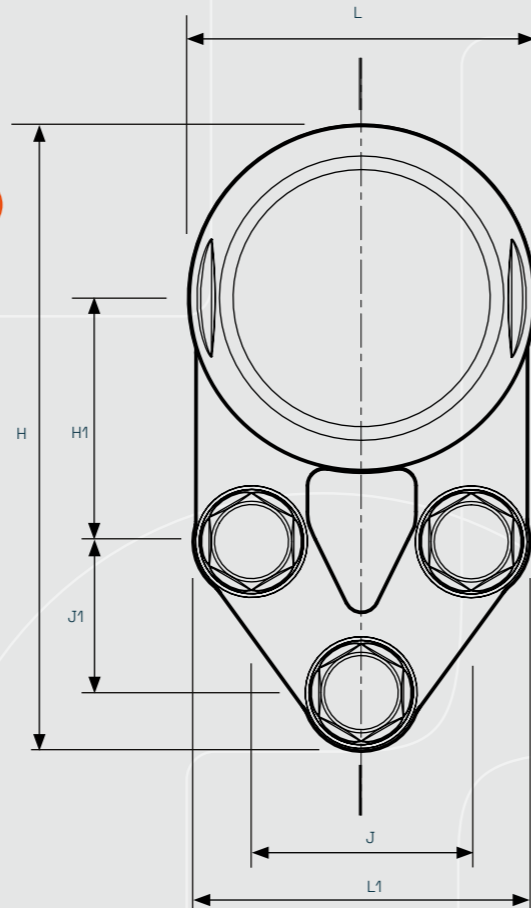
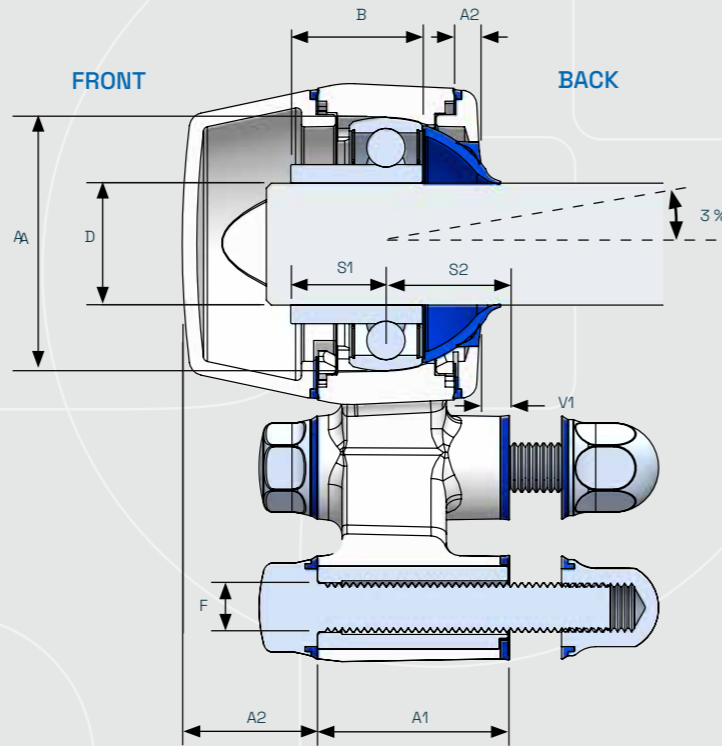
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB3FC 3-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XB3FC bearing house is mounted parallel to shaft direction.

The XB3FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB3FC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



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# Certified hygienic Bearing houses - XB3FC



## Bearing house



## Bearing type



## Cover



## Nut and Bolt



## Color bearing house



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB3FC52-	SSB2540-CL(W)-	OS(W)-		BXHM1050

Size A [in]	Shaft diameter D [in]	V1 [in]	J [in]	J1 [in]	F [in]	H [in]	H1 [in]	I [in]	I1 [in]	A1 [in]	S2 [in]	Item code
1.85	3/4	0.3	1.5	0.87	0.4	4.13	1.69	2.27	2.36	1.42	0.94	XB3FC47
2.05	1	0.25	1.63	1.12	0.40	4.66	1.81	2.58	2.50	1.54	0.98	XB3FC52
2.44	1 1/4	0.26	1.87	1.26	0.40	5.41	2.07	3.13	2.85	1.63	1.06	XB3FC62
2.83	1 3/8	-	-	-	-	-	-	-	-	-	-	XB3FC72
3.15	1 1/2	-	-	-	-	-	-	-	-	-	-	XB3FC80

Bearing ball material	Shaft diameter D [in]	Width B [in]	Distance S1 [in]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	3/4	0.98	0.71	1875	5040	10370	SSB1905
Stainless steel w. screws	1	1.06	0.77	1500	5970	11310	SSB2540
Stainless steel w. screws	1 1/4	1.18	0.87	1250	8640	15730	SSB3175
Stainless steel w. screws	-	-	-	-	-	-	-
Stainless steel w. screws	-	-	-	-	-	-	-

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [in]	Shaft diameter D [in]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code	Color code - See below
1.85	3/4	0.18	0.57	0.66	-		
2.05	1	0.18	0.57	0.68	1.08		
2.44	1 1/4	0.23	0.8	0.92	1.41		
-	-	-	-	-	-		
-	-	-	-	-	-		



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)

\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 µm Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3°



# Certified hygienic Bearing houses - XB4FC

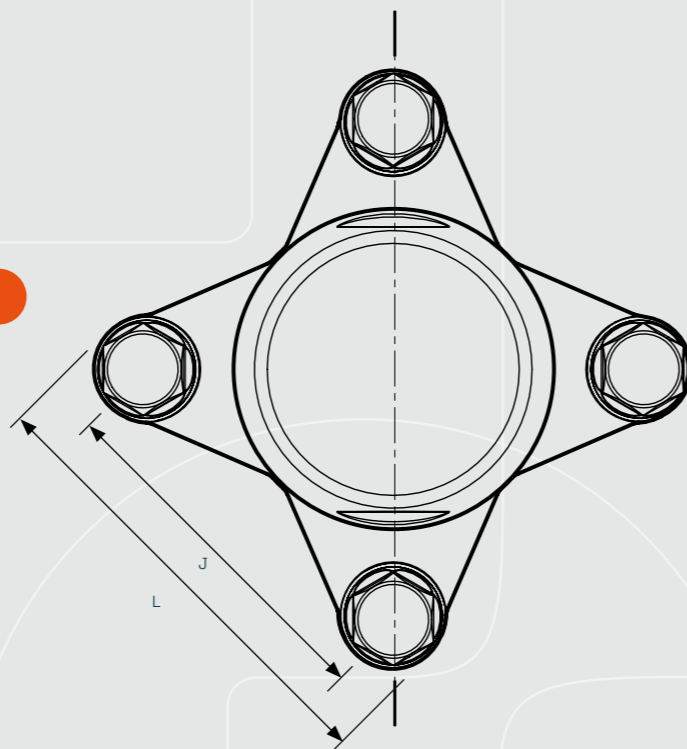
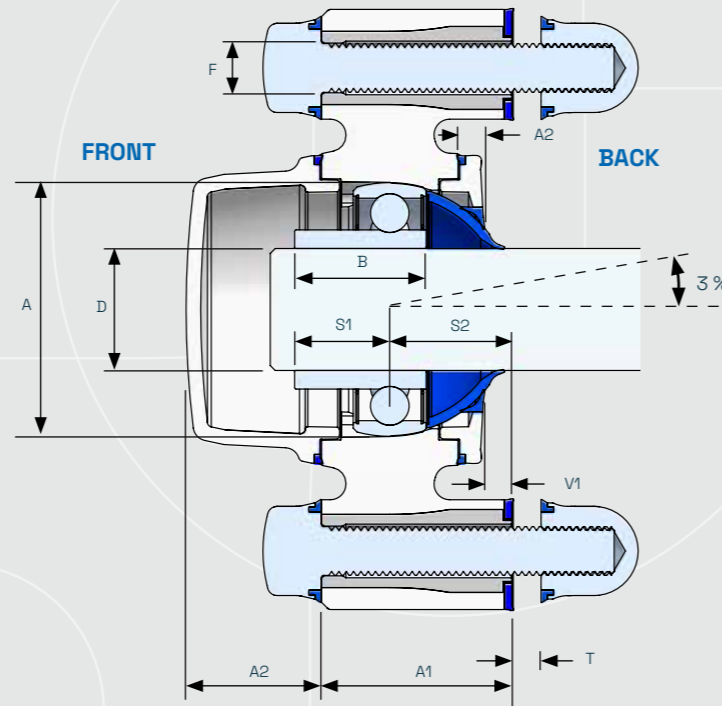
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XB4FC 4-hole flange bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XB4FC bearing house is mounted parallel to shaft direction.

The XB4FC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XB4FC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



# Certified hygienic Bearing houses - XB4FC



## Bearing house



## Bearing type



## Cover



## Nut and Bolt



## Color bearing house



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XB4FC52-	SSB2540-CL(W)-	OS(W)-		BXHM1050

Size A [in]	Shaft diameter d [in]	V1 [in]	J [in]	F [in]	L [in]	A1 [in]	S2 [in]	Item code
1.85	3/4	0.3	2.5	0.4	3.33	1.42	0.94	XB4FC47
2.05	1	0.25	2.76	0.4	3.62	1.54	0.98	XB4FC52
2.44	1 1/4	0.26	3.25	0.4	4.3	1.63	1.06	XB4FC62
2.83	1 3/8	0.28	3.62	0.48	4.69	1.83	1.18	XB4FC72
3.15	1 1/2	0.29	4	0.48	5.15	1.97	1.26	XB4FC80

Bearing ball material	Shaft diameter D [in]	Width B [in]	Distance S1 [in]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	3/4	0.98	0.71	1875	5040	10370	SSB1905
Stainless steel w. screws	1	1.06	0.77	1500	5970	11310	SSB2540
Stainless steel w. screws	1 1/4	1.18	0.87	1250	8640	15730	SSB3175
Stainless steel w. screws	1 3/8	1.34	0.96	1070	11680	20830	SSB3493
Stainless steel w. screws	1 1/2	1.46	1.04	940	13600	23550	SSB3810

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [in]	Shaft diameter D [in]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
1.85	3/4	0.18	0.57	0.66	-	
2.05	1	0.18	0.57	0.68	1.08	
2.44	1 1/4	0.23	0.8	0.92	1.41	
2.83	1 3/8	0.25	0.77	0.91	-	
3.15	1 1/2	0.26	0.88	1.03	-	



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)

\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3°

# Certified hygienic Bearing houses - XBPBC

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XBPBC 2-hole block full bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XBPBC bearing house is mounted perpendicularly to shaft direction

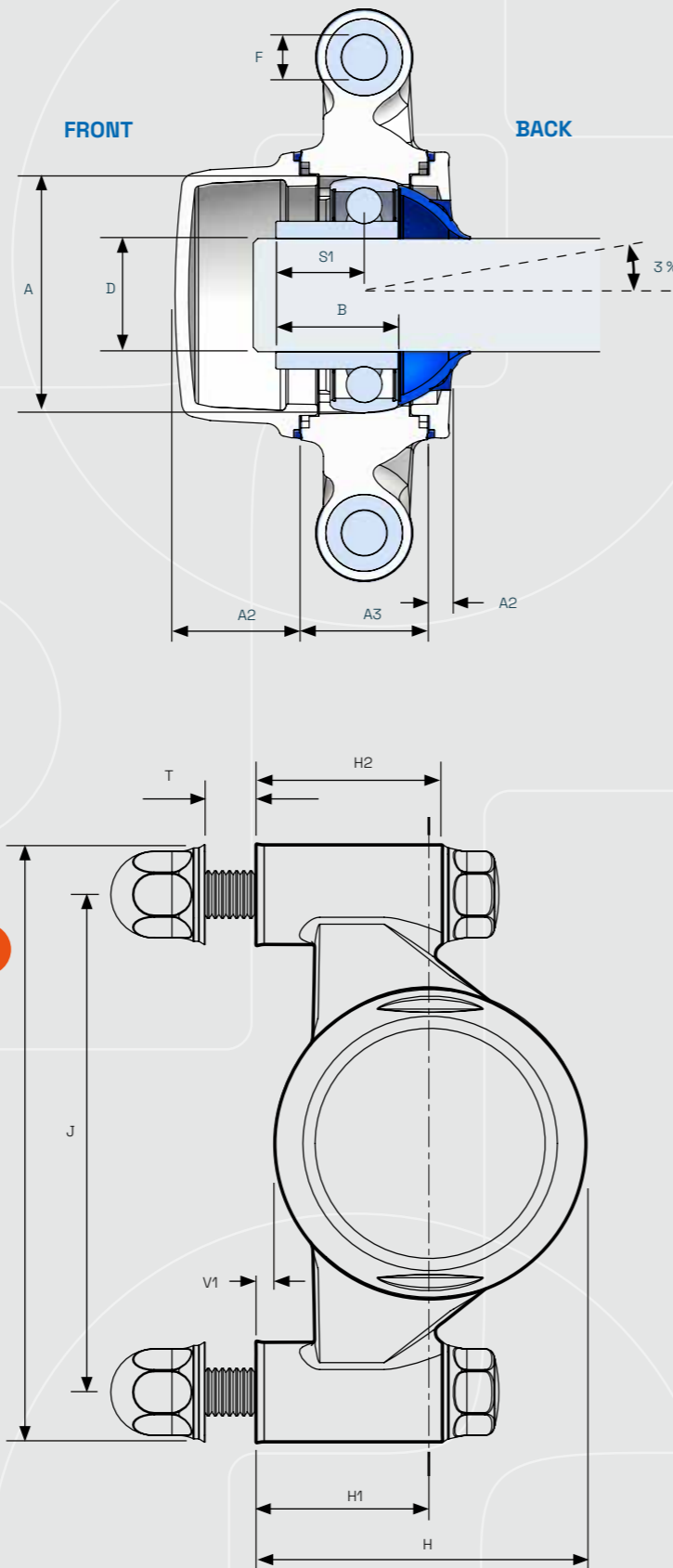
The XBPBC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XBPBC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



Innovation by NGI

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# Certified hygienic Bearing houses - XBPBC



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XBPBC25-	SSB2540-CL(W)-	OS(W)-	BXHM1060	



Bearing house



Bearing type



Cover



Nut and Bolt



Color bearing house

Size A [in]	Shaft diameter d [in]	V1 [in]	J [in]	F [in]	H [in]	H1 [in]	H2 [in]	L [in]	A3 [in]	Item code
-	-	-	-	-	-	-	-	-	-	XBPBC47
2.05	1	0.14	4.13	0.40	2.73	1.44	1.54	4.96	1.10	XBPBC52
2.44	1 1/4	0.12	4.76	0.40	3.26	1.69	1.63	5.75	1.14	XBPBC62
-	-	-	-	-	-	-	-	-	-	XBPBC72
-	-	-	-	-	-	-	-	-	-	XBPBC80

Bearing ball material	Shaft diameter D [in]	Width B [in]	Distance S1 [in]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	-	-	-	-	-	-	-
Stainless steel w. screws	1	1.06	0.77	1500	5970	11310	SSB2540
Stainless steel w. screws	1 1/4	1.18	0.87	1250	8640	15730	SSB3175
Stainless steel w. screws	-	-	-	-	-	-	-
Stainless steel w. screws	-	-	-	-	-	-	-

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

Size A [in]	Shaft diameter D [in]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
-	-	-	-	-	-	
2.05	1	0.18	0.57	0.68	1.08	
2.44	1 1/4	0.23	0.8	0.92	1.41	
-	-	-	-	-	-	
-	-	-	-	-	-	

Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)



\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 Ram Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3°

# Certified hygienic Bearing houses - XBTBC

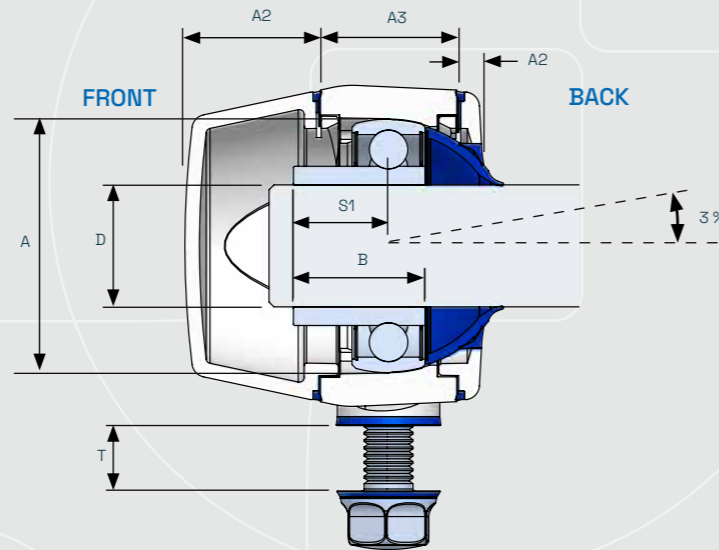
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XBTBC block short-base bearing house is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

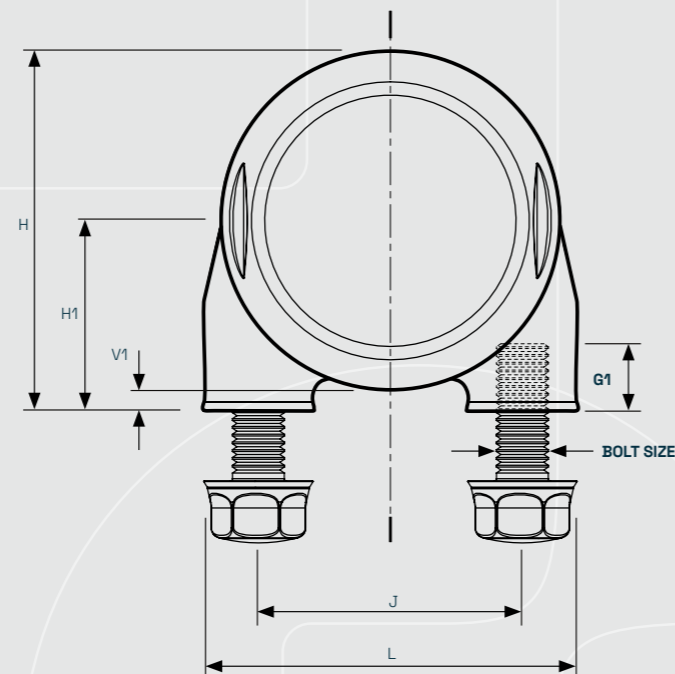
The XBTBC bearing house is mounted perpendicularly to shaft direction

The XBTBC is designed to provide easy access for cleaning from all angles. We recommend that you choose a bearing house with NGI's hygienic nuts and bolts for maximum hygienic safety.

The XBTBC meets the requirements of EC 1935/2004, EC 10/2011, EC 2023/2006 and FDA.



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# Certified hygienic Bearing houses - XBTBC



Product code	Bearing house	Bearing type	Front cover	Back cover	Bolt (optional)
Example	XBTBC25-	SSB2540-CL(W)-	OS(W)-		BXHM1060

## Bearing house



Size A [in]	Shaft diameter D [in]	J [in]	H [in]	H1 [in]	I [in]	G1 [in]	A3 [in]	Item code
-	-	-	-	-	-	-	-	-
2.05	1	2.01	2.73	1.44	2.85	0.51	1.10	XBTBC25
2.44	1 1/4	2.99	3.26	1.69	3.97	0.51	1.14	XBTBC30
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

## Bearing type



Bearing ball material	Shaft diameter D [in]	Width B [in]	Distance S1 [in]	Maximum speed sealing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
Stainless steel w. screws	-	-	-	-	-	-	-
Stainless steel w. screws	1	1.06	0.77	1500	5970	11310	SSB2540
Stainless steel w. screws	1 1/4	1.18	0.87	1250	8640	15730	SSB3175
Stainless steel w. screws	-	-	-	-	-	-	-
Stainless steel w. screws	-	-	-	-	-	-	-

The above bearing is the most common bearing - stainless steel with screws. We have, however, four types of bearings - stainless steel or ceramic hybrid with screws or with locking collar. Find our complete assortment of bearings on page 28.

## Cover



Size A [in]	Shaft diameter D [in]	OS [Open small]	om [Open Medium]	CM [Closed Medium]	CL [Closed Large]	Item code
		A2	A2	A2	A2	Color code - See below
-	-	-	-	-	-	-
2.05	1	0.18	0.57	0.68	1.08	
2.44	1 1/4	0.23	0.8	0.92	1.41	
-	-	-	-	-	-	-
-	-	-	-	-	-	-

## Nut and Bolt



Our bearing houses can be supplied with certified hygienic bolts and nuts. More bolt lengths are available. Find the relevant assortment of bolts and nuts for bearing houses on page 29.

## Color bearing house

Color	Color code
WHITE	(W)
BLUE	(B)
BLACK	(S)



\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 µm Ra with a tolerance not exceeding h9, preferably lower.

Misalignment angle = +/-3°

# Hygienic Bearings stainless steel or ceramic hybrid

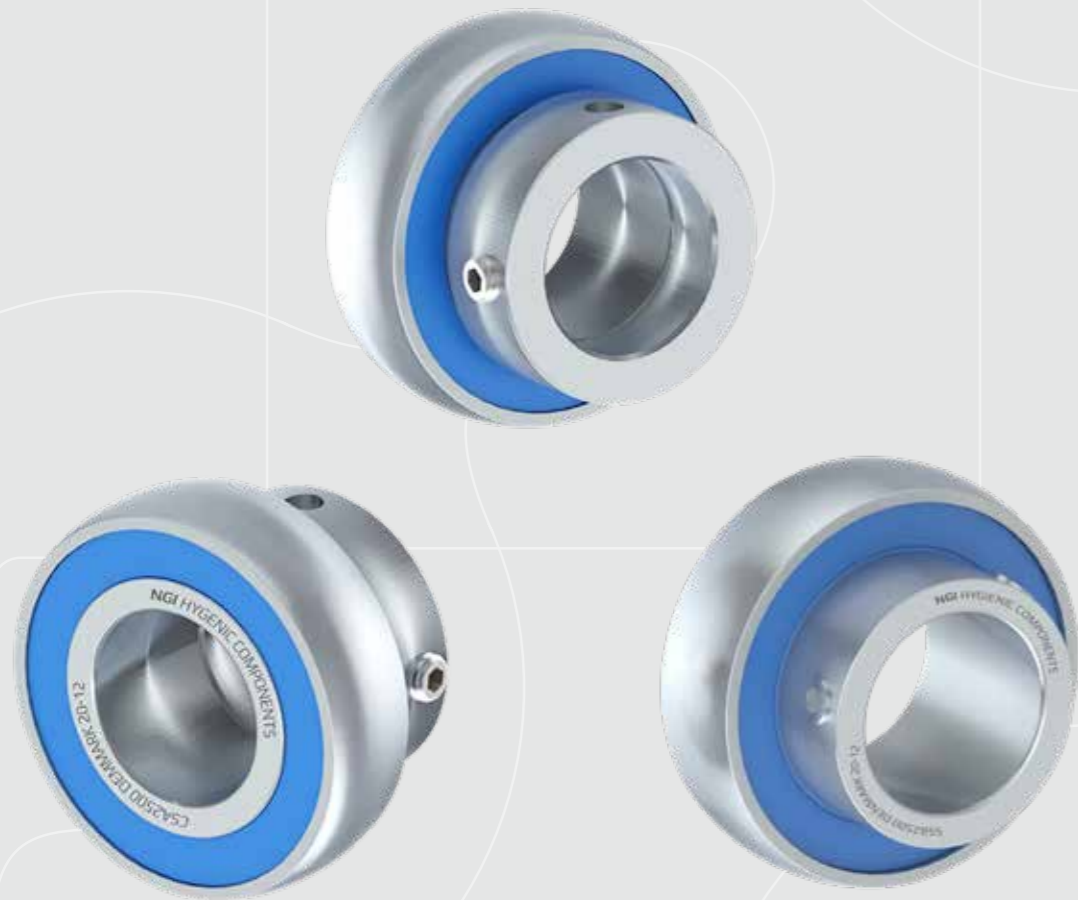
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

We produce stainless steel and ceramic hybrid high performance insert bearings of the highest quality. Seals are made from FDA blue NBR.

Research based on the analysis of 1.000 bearings shows that 99,6% of ceramic bearings last at least 4 times longer than standard bearings.

In 50% of the cases, the service life of the bearing was between 8-20 times longer than the bearings they replaced.

In 30% of the cases, it is expected that the ceramic bearings will never need to be replaced for the entire service life of the machine.



# Hygienic Bearings stainless steel or ceramic hybrid



## SSB

### Special Features

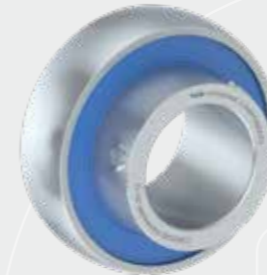
- Stainless Steel Bearing
- Stainless steel balls
- AISI 440 rings



## CSB

### Special Features

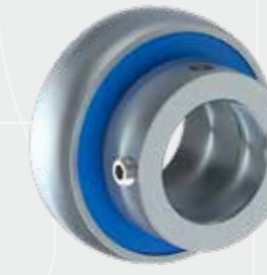
- Ceramic Bearing
- Hybrid with ceramic balls
- AISI 440 rings



## SSA

### Special Features

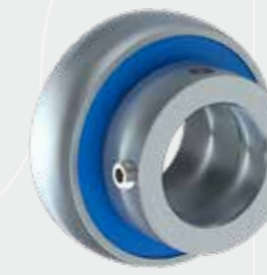
- Stainless Steel Bearing
- Stainless steel balls
- AISI 440 rings
- Eccentric locking collar



## CSA

### Special Features

- Ceramic Bearing
- Hybrid with ceramic balls
- AISI 440 rings
- Eccentric locking collar



# Hygienic Bearings stainless steel or ceramic hybrid

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

Our bearings are pre-installed in the bearing houses and we currently offer 4 types - stainless steel or ceramic hybrid bearing with screws or locking collar.

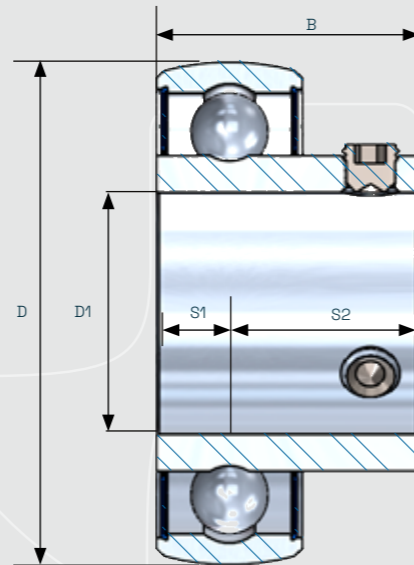
Our certified hygienic bearing houses with IP69K sealing provide the ideal environment for the bearing and are therefore suitable for maintenance-free operation.

The main operating parameters that determine the lifetime of the bearing are bearing type and size, load, speed, operating temperature, shaft tolerances.

Our ball bearings are greased-for-life with high-performance multi-purpose grease designed specifically for the lubrication of food processing machinery all sealed-for-life by seals made from FDA-approved blue NBR.

The locking method with screws is the most common locking function.

Bearings with an eccentric locking collar are intended primarily for use in applications where the direction of rotation is constant. On one side of the bearing inner ring is an eccentric extension that fits the locking collar.



# Hygienic Bearings stainless steel or ceramic hybrid

## Bearing ball Stainless steel



Locking function	Size D [mm]	Shaft diameter D1 [mm]	Width B [mm]	Distance S1 [mm]	Max. speed bearing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
With screws	1.85	3/4	0.98	0.71	4800	5040	10370	SSB1905
With screws	2.05	1	1.06	0.77	4200	5970	11310	SSB2540
With screws	2.44	1 1/4	1.18	0.87	3780	8640	15730	SSB3175
With screws	2.83	1 3/8	1.34	0.96	3150	11680	20830	SSB3493
With screws	3.15	1 1/2	1.46	1.04	2750	13600	23550	SSB3810
With locking collar	1.85	3/4	0.98	0.71	4800	5040	10370	SSA1905
With locking collar	2.05	1	1.06	0.77	4200	5970	11310	SSA2540
With locking collar	2.44	1 1/4	1.18	0.87	3780	8640	15730	SSA3175
With locking collar	2.83	1 3/8	1.34	0.96	3150	11680	20830	SSA3493
With locking collar	3.15	1 1/2	1.46	1.04	2750	13600	23550	SSA3810

## Bearing ball Ceramic hybrid



Locking function	Size D [mm]	Shaft diameter D1 [mm]	Width B [mm]	Distance S1 [mm]	Max. speed bearing* [R/MIN.]	Static load rating Co [N]	Dynamic load rating C [N]	Item code
With screws	1.85	3/4	0.98	0.71	4800	4032	10370	CSB1905
With screws	2.05	1	1.06	0.77	4200	4776	11310	CSB2540
With screws	2.44	1 1/4	1.18	0.87	3780	6912	15730	CSB3175
With screws	2.83	1 3/8	1.34	0.96	3150	9344	20830	CSB3493
With screws	3.15	1 1/2	1.46	1.04	2750	10880	23550	CSB3810
With locking collar	1.85	3/4	0.98	0.71	4800	4032	10370	CSA1905
With locking collar	2.05	1	1.06	0.77	4200	4776	11310	CSA2540
With locking collar	2.44	1 1/4	1.18	0.87	3780	6912	15730	CSA3175
With locking collar	2.83	1 3/8	1.34	0.96	3150	9344	20830	CSA3493
With locking collar	3.15	1 1/2	1.46	1.04	2750	10880	23550	CSA3810



### Grease for bearing balls in stainless steel:

Our bearing balls in stainless steel are lubricated-for-life with Mobilgrease FM 222 a high performance multi-purpose products designed specifically for the lubrication of food processing machinery. FM 222 are Agriculture and Agri-Food Canada category n lubricant (incidental food contact) and are formulated with components meeting the requirements of CFR 178.3570, Chapter 21, and NSF registered as H1 classified lubricants. DIN 51825 KPF2K-20 - Kosher/Parve -Halal.

### Grease for bearing balls in ceramic hybrid:

Our bearing ball in ceramic hybrid are lubricated-for-life with ROCOL® FOODLUBE Premier 1 a soft, white, non-toxic lubricant containing PTFE for the effective lubrication and protection of ball, roller and plain bearings, slides and bushes particularly those operating in food, pharmaceutical and other clean environments. FOODLUBE Premier 1 is temperature resistance of -20°C to +180°C and it is manufactured from only FDA listed ingredients: FDA Group 21 CFR 178.3570. FOODLUBE Premier 1 is NSF registered, NSF H1 registered - 141084 and ISO 21469 certified.



\* The hygienic bearing house is typically used on conveyors rotating at relatively low speeds (below 2000 rpm), the housing creates a hygienic environment for the bearing, and it would be optimal to mount it on an AISI hard surface between 0.8 µm and 1.6 µm Ra with a tolerance not exceeding h9, preferably lower.

# Certified hygienic bolts & nuts

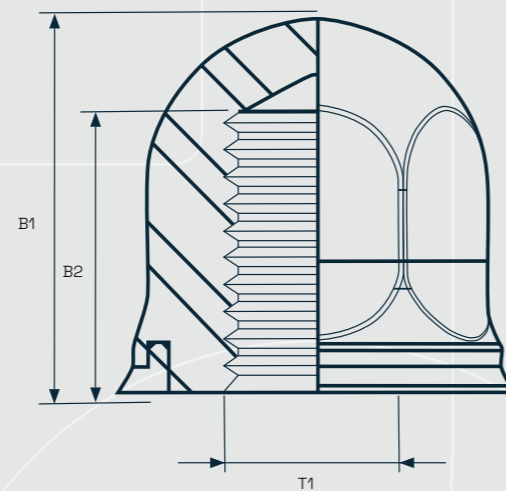
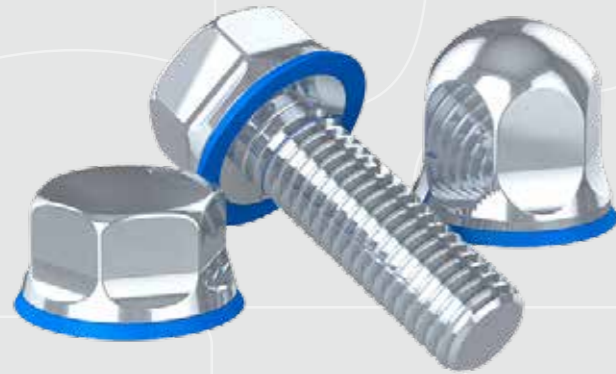
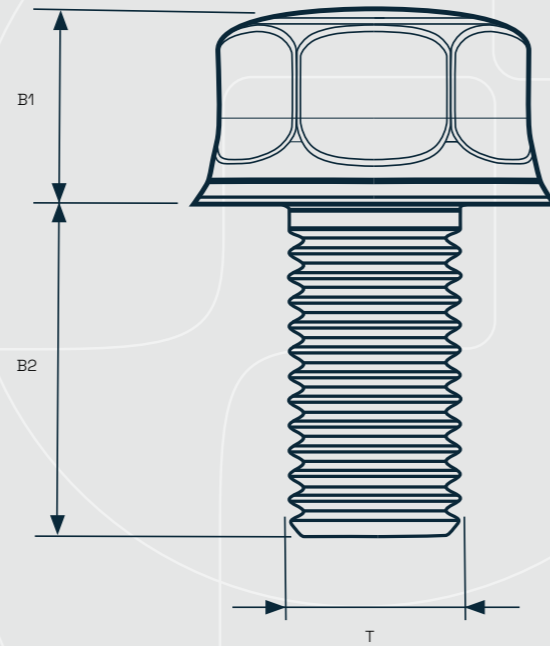
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

NGI is able to offer certified hygienic bolts and nuts with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly.

The bolts and nuts have self-draining surfaces with a maximal roughness of 0.8 µm Ra. The design of the bolts and nuts does not deviate from the sizes of current standard bolts and nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard bolts.

This is the right choice of accessories to be used on all machinery in all certified hygienic wash-down environments.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24



# Certified hygienic bolts & nuts



## Certified hygienic bolts - BXH



Size A [mm]	Bolt size T	Head height B1 [mm]	Bolt length* B2 [mm]	Plate thickness [mm]	Tightening torque [Nm]	Outer nut diameter [mm]	Item code
47	M10	12	50	1-5	38	21,1	BXHM1050
47	M10	12	55	5-10	38	21,1	BXHM1055
52	M10	12	50	1-5	38	21,1	BXHM1050
52	M10	12	55	5-10	38	21,1	BXHM1055
62	M10	12	55	1-5	38	21,1	BXHM1055
62	M10	12	60	5-10	38	21,1	BXHM1060
72	M12	14	60	1-5	68	25,8	BXHM1260
72	M12	14	65	5-10	68	25,8	BXHM1265
80	M12	14	65	1-5	68	25,8	BXHM1265
80	M12	14	70	5-10	68	25,8	BXHM1270

## Certified hygienic dome-headed nut - NDXH



Thread T1	Tightening torque [Nm]	Total height B1 [mm]	Thread length B2 [mm]	W [mm]	Outer nut diameter [mm]	Item code
M10	38	19,9	15	16	21,1	NDXH-M10
M12	68	24,5	18	18	25,8	NDXH-M12



\* Bearing can be supplied with certified hygienic bolts. More bolt lengths are available, contact NGI for other options.

# Certified hygienic spacers

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

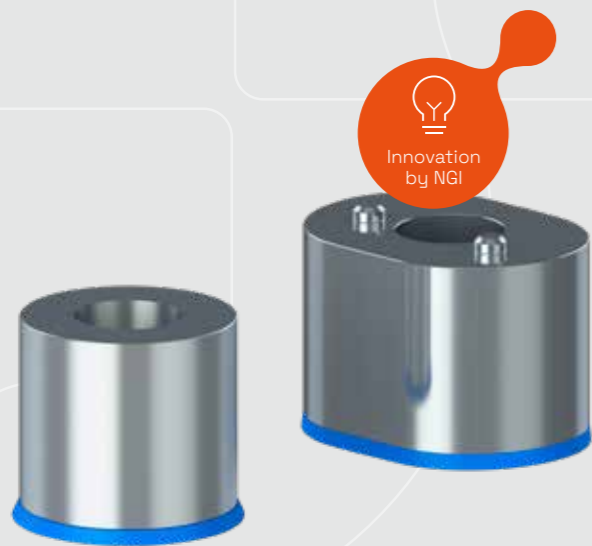
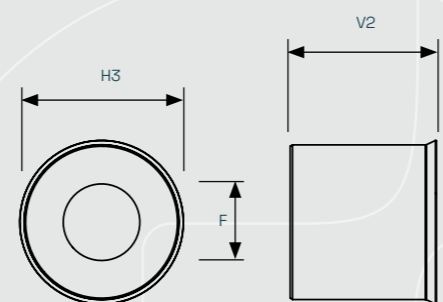
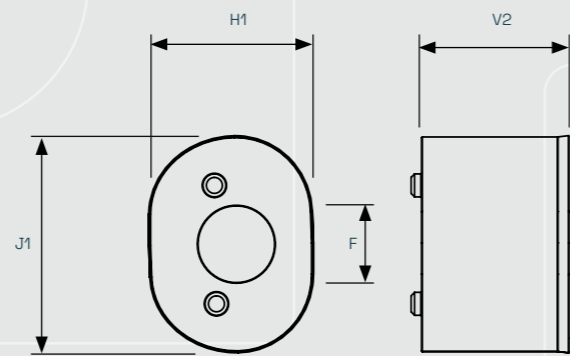
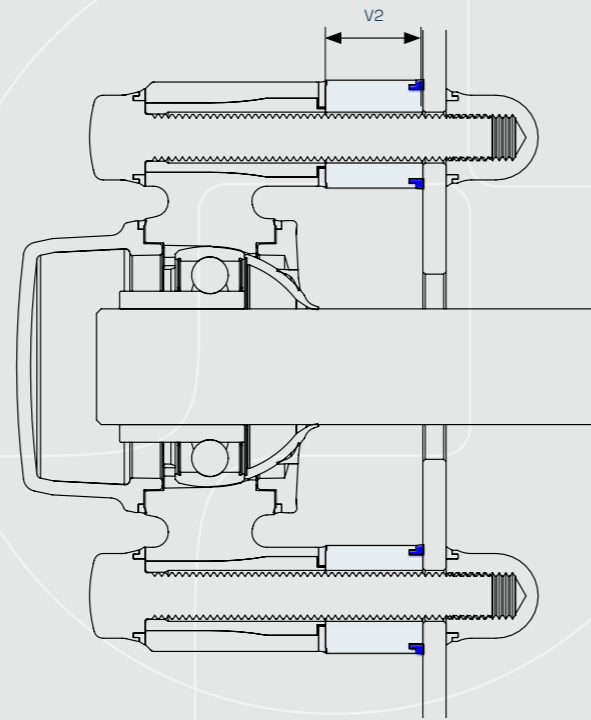
NGI can offer certified hygienic spacers with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and prevents a non-hygienic metal-to-metal assembly.

A high focus on hygienic design ensures that the bearing house can be cleaned behind and around the shaft and furthermore, NGI offers hygienic spacers to increase the distance to machines and equipments to over an inch as recommended by USDA.

NGI bearing houses are USDA certified.

When USDA laws are to be followed use the hygienic spacers from NGI to secure the approved distance to the support surface. For hygienic components from NGI which are already 3-A RPSCQC approved, USDA has mostly been about protection against visible threads and 1" spacers for bearing housings.

To attach NGI hygienic bearing houses to the support surface always use NGI certified hygienic bolts or nuts to secure the overall hygienic design.



# Certified hygienic spacers

## Oval Spacer

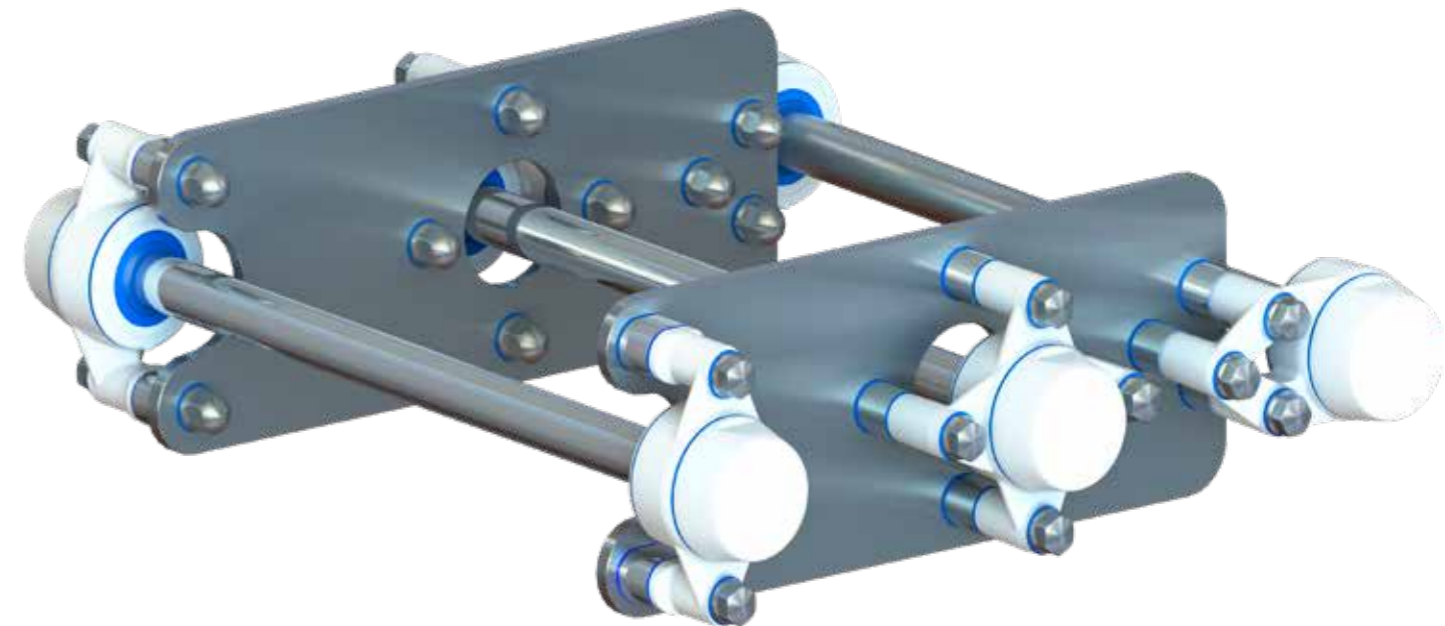


Bearing house size	A [in]	V2 [in]	F [in]	H1 [in]	J1 [in]	Item code
1.85	0.75	0.51	0.91	1.21	8000200	
2.05	0.75	0.43	0.93	1.23	HF95462	
2.44	0.75	0.43	1.08	1.46	HF95463	
2.83	0.75	0.59	1.12	1.92	HF95696	
3.15	0.75	0.59	1.20	2.08	HF95705	

## Round Spacer



Bearing house size	A [in]	V2 [in]	F [in]	H3 [in]	Item code
1.85	0.87	0.47	0.87	HF95464	
2.05	0.87	0.43	0.87	HF95464	
2.44	0.89	0.43	1.02	HF95461	
2.83	0.87	0.59	1.12	HF95697	
3.15	0.87	0.59	1.18	HF95702	



# Declaration of conformity bearing houses

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage



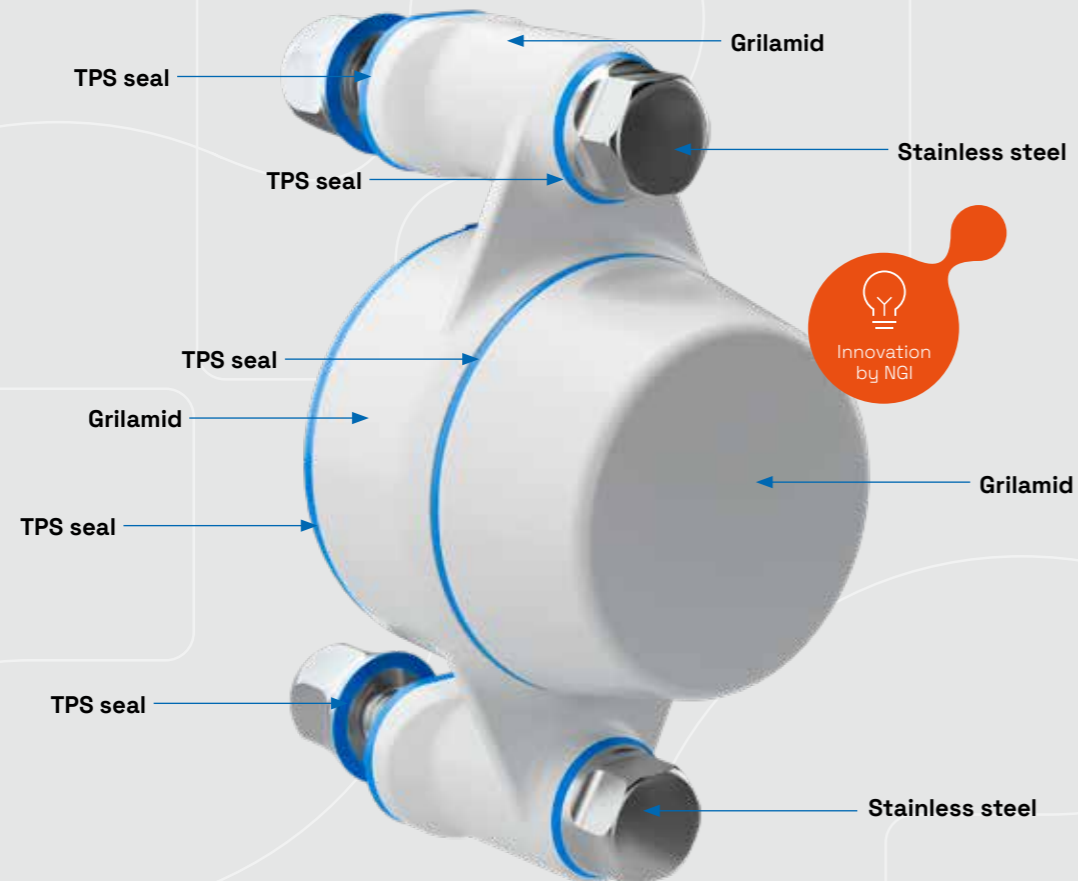
NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



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# Declaration of conformity bearing houses



The declaration of materials concerns the following Applications

**Application:** Insert bearings  
**Material type:** Stainless steel.  
 By request: Ceramic balls  
 NBR rubber seals  
**Compliance:** "Materials and articles to come in contact with food" 1935:2004/EC  
 This certification is based on relevant information supplied by the material manufactures.

**Application:** Hygienic bolts:  
**Material type:** Stainless steel AISI 316/A4 (A4 [X 5 CrNiMo 17 12 2], Euronorm 1.4401 EN 10204 TYPE 2.2).  
**Material type bolts:** 1.4401 EN 10204 TYPE 2.2.  
**Material type seals:** Silicon rubber  
**Compliance:** See conformity statement for NGI certified hygienic bolts

**Application:** Bearing house & covers  
**Material type:** Grilamid frame, TPS seals  
**Electrically:** Non-conductive  
**Chemical resistance:** High to commonly applied cleaning agents  
**Color:** RAL 9010 (white) body, RAL 5010 (blue) seals  
**Range of temperature:** Min -20°C to Max +125 °C  
**Storage:** According to ISO 2230  
**Compliance:** Mounting according to ISO norm 3228:2013  
 Bearing compatibility according to ISO norm 9628:2006  
**FDA:** Guideline 21 CFR 177.2600  
**RoHS 2:** In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.  
**European Community:** "Materials and articles to come in contact with food" - 1935:2004/EC  
 "Plastic materials and articles intended to come in contact with food" - 10:2011/EC

**Water resistance:** IP69  
 Water resistant 7 atm or 70 meters.

## Installation bearing houses

Scan the code and learn how to replace a bearing house.

You can also find detailed guidance in the installation of our bearing houses at [www.ngi-global.com](http://www.ngi-global.com)

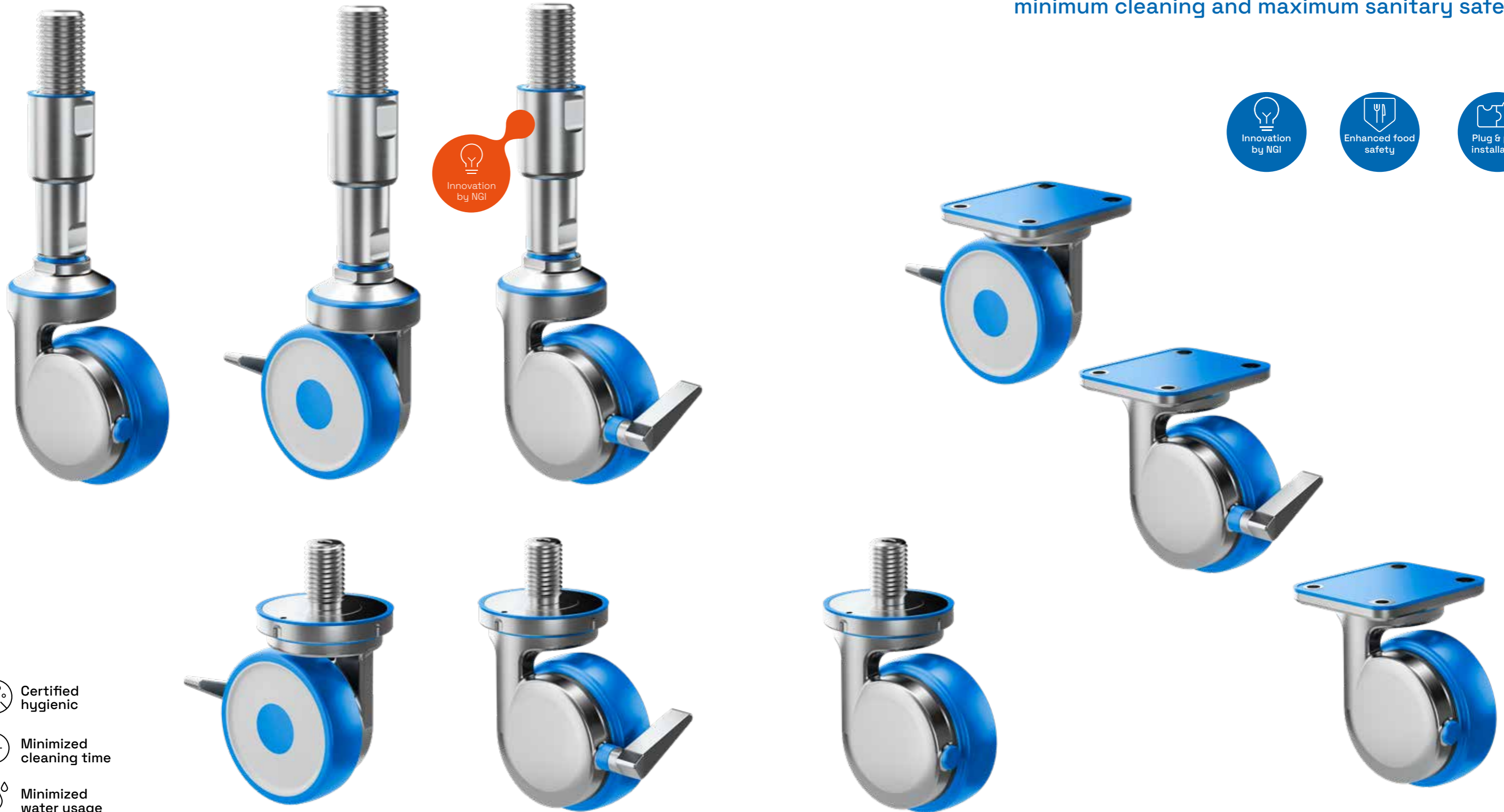




# Certified hygienic Casters

The only patented Casters in the world hygienically designed in accordance to EHEDG, 3-A and USDA standards with easy access for cleaning from all angles

For use in sanitary production environments. self-draining surfaces, completely sealed movable parts and no exposed thread secures absolute minimum cleaning and maximum sanitary safety



Certified hygienic



Minimized cleaning time



Minimized water usage

# Certified hygienic Casters

NGI is the only manufacturer in the world of patented casters hygienically designed in accordance with 3-A, EHEDG and USDA design principles. The product range consists of three hygienic groups of casters: A caster with a plate fitting, a caster with hygienic leveling spindles and a caster with round thread mounting.

The hygienic casters from NGI have smooth surfaces with soft curves enabling easy access for cleaning. All surfaces are either round or fitted with a 30 angle to provide optimal drainability. Furthermore, the casters are designed for quick and easy installation.

## Product Group Features

- One-sided fork housing providing easy access for cleaning
- Housing made of stainless steel AISI 304/A2 1.4301
- Wheel axle with nut bolt hole
- Center of caster made from white polyamide
- Blue thread made from polyurethane
- Two high quality stainless steel ball bearings
- Wheel dimensions Ø100 (other dimensions to be launched)
- Load capacity tested in accordance to, and conforms to DS/EN12527:1999
- Developed in accordance to DS/EN12532:1999



## XSCB-XHS

### Special Features

- Certified hygienic swivel caster with leveling spindle
- Height variation 8.84 in - 12.58 in
- Brake on swivel and wheel
- Extra strong, hardened double roller bearing
- Dynamic caster weight load 2.000 N

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## XSCRB

### Special Features

- Certified hygienic swivel caster
- Extra strong, hardened double roller bearing
- Brake on swivel and wheel
- Dynamic weight load 2.000 N

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## XSC-XHS

### Special Features

- Certified hygienic swivel caster with leveling spindle
- Height variation 8.84 in - 12.58 in
- Extra strong, hardened double roller bearing
- Dynamic caster weight load 2.000 N

134



## XSCR

### Special Features

- Certified hygienic swivel caster
- Extra strong, hardened double roller bearing
- Dynamic weight load 2.000 N

140



## XC-XHS

### Special Features

- Certified hygienic caster with leveling spindle
- Rigid swivel
- Height variation 8.84 in - 12.58 in
- Dynamic caster weight load 2.000 N

136



## XCR

### Special Features

- Certified hygienic caster
- Rigid swivel
- Dynamic weight load 2.000 N

142

# Certified hygienic Casters

NGI is the only manufacturer in the world of patented casters hygienically designed in accordance with 3-A, EHEDG and USDA design principles. The product range consists of three hygienic groups of casters: A caster with a plate fitting, a caster with hygienic leveling spindles and a caster with round thread mounting.

The hygienic casters from NGI have smooth surfaces with soft curves enabling easy access for cleaning. All surfaces are either round or fitted with a 30 angle to provide optimal drainability. Furthermore, the casters are designed for quick and easy installation.



## XSCSB

### Special Features

- Certified hygienic swivel caster with plate fitting
- Extra strong, hardened double roller bearing
- Brake on swivel and wheel
- Dynamic weight load 2.000 N

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## XSCS

### Special Features

- Certified hygienic swivel caster with plate fitting
- Extra strong, hardened double roller bearing
- Dynamic weight load 2.000 N

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## XCS

### Special Features

- Certified hygienic caster with plate fitting
- Rigid swivel
- Dynamic weight load up 2.000 N

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## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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## CERTIFIED HYGIENIC DOME-HEADED NUT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes 1/4 in - 1 in
- Are delivered with all certified hygienic machine feet with floor fixing

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## CERTIFIED HYGIENIC LOW-HEADED NUT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes 1/4 in - 1 in

308



## CERTIFIED HYGIENIC BOLT



- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS i AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 pm RA
- Available in sizes 1/4 in - 1 in

310

# Certified hygienic Caster - XSCB-XHS

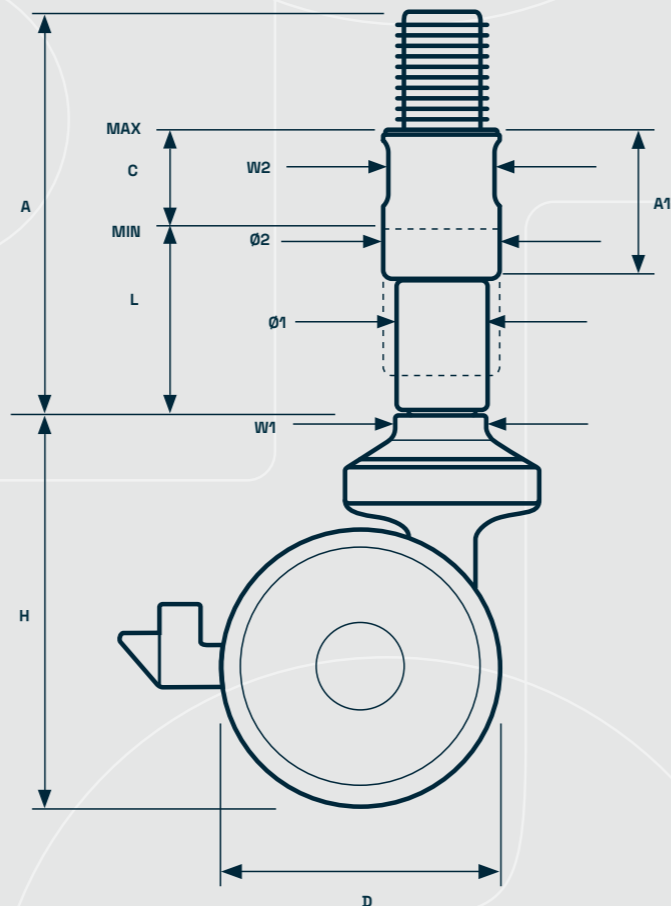
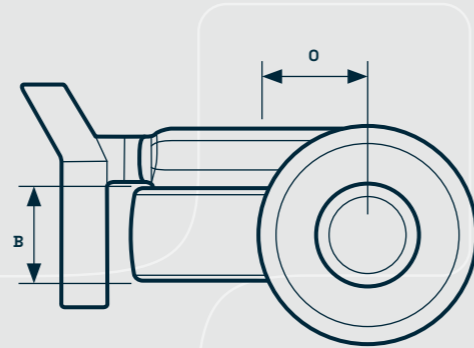
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCB-XHS certified hygienic swivel caster with a leveling spindle is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCB-XHS is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.

The thread on the spindle is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Certified hygienic Caster - XSCB-XHS



## CASTER



PRODUCT CODE	Caster - SPINDLE - SLEEVE
EXAMPLE	XSCB100 - XHSM161059 - RHOXS1022

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	W1 [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.61	1.18	1.14	1.26	1.500	XSCB100

## SPINDLE



THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
1-8	5.9	2.99	1.04	1137	XHSM161059
1-8	8.3	4.17	1.04	1000	XHSM161083
1 1/4-7	5.9	3.11	1 1/4	2281	XHSM165459
1 1/4-7	8.3	4.29	1 1/4	2010	XHSM165483
1 1/2-6	5.9	3.11	1 1/4	3578	XHSM163259
1 1/2-6	8.3	4.29	1 1/4	3154	XHSM163283

## SLEEVE



THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A1 [in]	ADJUSTMENT C [in]	ITEM CODE
1-8	5/4	1.37	2.17	1.42	RHOXS1022
1-8	5/4	1.37	3.35	2.60	RHOXS1033
1 1/4-7	1 1/2	1.65	2.17	1.42	RHOXS5422
1 1/4-7	1 1/2	1.65	3.35	2.60	RHOXS5433
1 1/2-6	1 3/4	1.89	2.17	1.42	RHOXS3222
1 1/2-6	1 3/4	1.89	3.35	2.60	RHOXS3233

Total height = A + H  
 Minimum usable height = H + L  
 Maximum usable height = H + L + C  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in



# Certified hygienic Caster - XSC-XHS

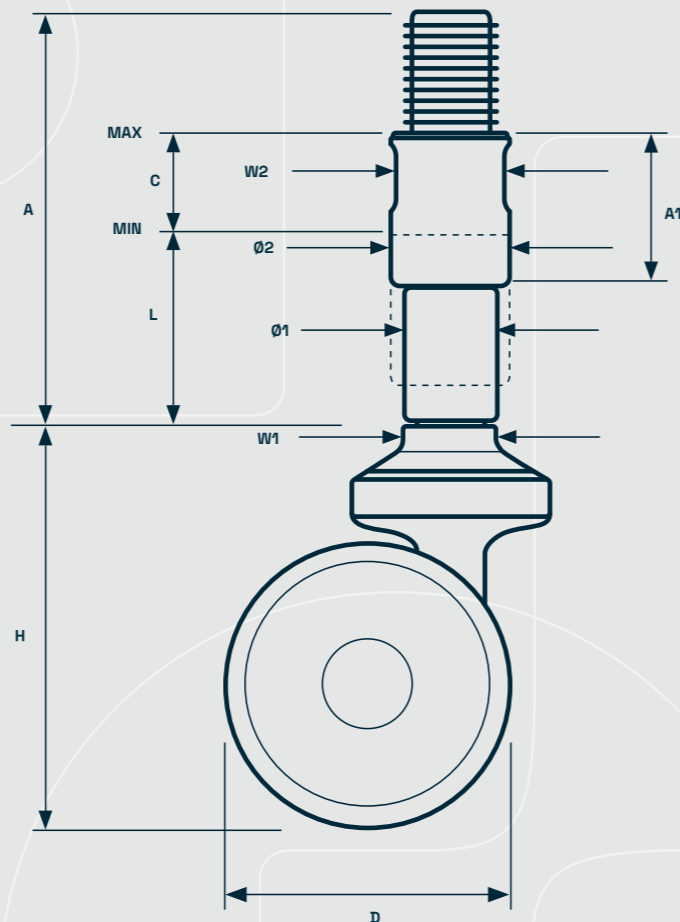
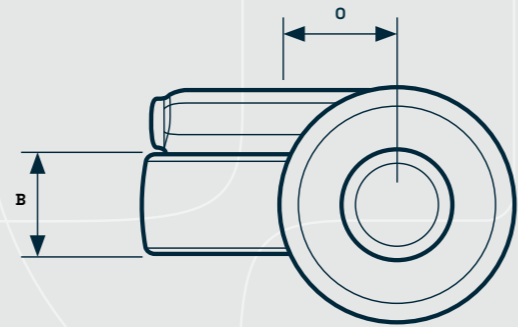
- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSC-XHS certified hygienic swivel caster with a leveling spindle is the optimal choice for machinery and equipment in that has to comply with strict hygiene requirements.

The casters are specifically designed to provide extreme easy access for cleaning and are fitted with smooth, drainable surfaces.

The thread is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Certified hygienic Caster - XSC-XHS



## CASTER



## SPINDLE



## SLEEVE



PRODUCT CODE	Caster - SPINDLE - SLEEVE
EXAMPLE	XSC100 - XHSM161059 - RHOXS1022

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	W1 [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.61	1.18	1.14	1.26	1.500	XSC100

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
1-8	5.9	2.99	1.04	1137	XHSM161059
1-8	8.3	4.17	1.04	1000	XHSM161083
1 1/4-7	5.9	3.11	1 1/4	2281	XHSM165459
1 1/4-7	8.3	4.29	1 1/4	2010	XHSM165483
1 1/2-6	5.9	3.11	1 1/4	3578	XHSM163259
1 1/2-6	8.3	4.29	1 1/4	3154	XHSM163283

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A1 [in]	ADJUSTMENT C [in]	ITEM CODE
1-8	5/4	1.37	2.17	1.42	RHOXS1022
1-8	5/4	1.37	3.35	2.60	RHOXS1033
1 1/4-7	1 1/2	1.65	2.17	1.42	RHOXS5422
1 1/4-7	1 1/2	1.65	3.35	2.60	RHOXS5433
1 1/2-6	1 3/4	1.89	2.17	1.42	RHOXS3222
1 1/2-6	1 3/4	1.89	3.35	2.60	RHOXS3233

Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

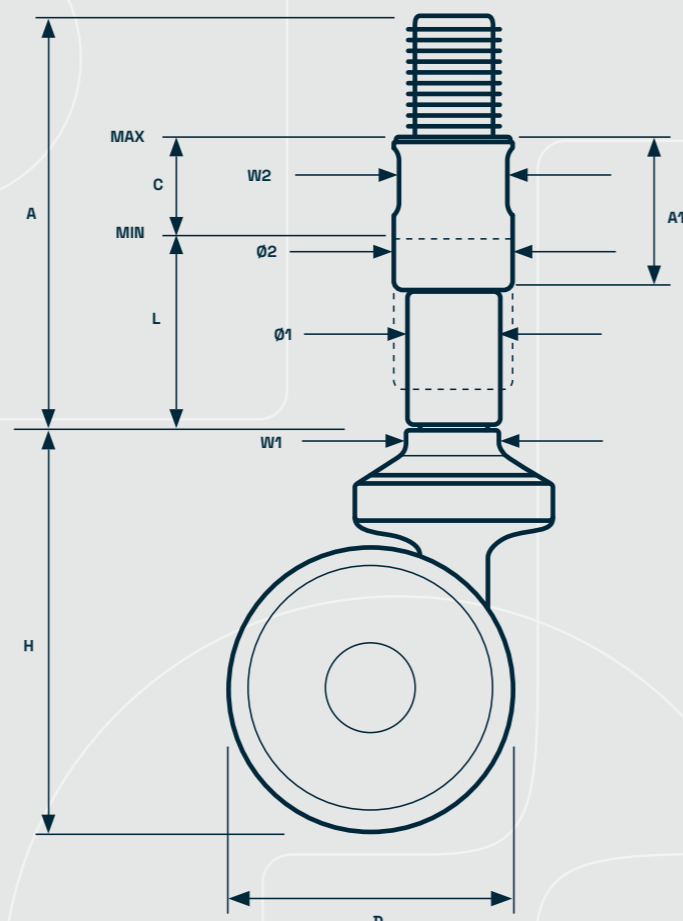
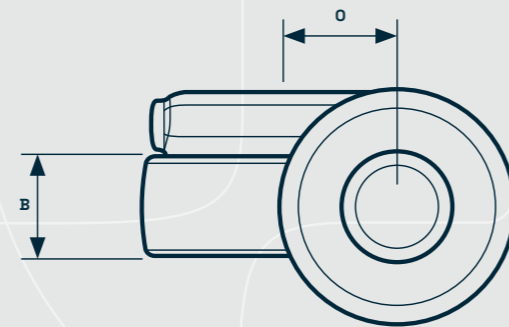
# Certified hygienic Caster - XC-XHS

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XC-XHS certified hygienic swivel caster with a leveling spindle is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements. The XC-XHS has a rigid swivel.

The thread on the spindle is covered with a hygienic sleeve which cannot be overadjusted and secures safety against exposed thread.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Certified hygienic Caster - XC-XHS



## CASTER



## SPINDLE



## SLEEVE



PRODUCT CODE	Caster - SPINDLE - SLEEVE
EXAMPLE	XC100 - XHSM161059 - RHOXS1022

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	W1 [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.61	1.18	1.14	1.26	1.500	XC100

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	DIAMETER Ø1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
1-8	5.9	2.99	1.04	1137	XHSM161059
1-8	8.3	4.17	1.04	1000	XHSM161083
1 1/4-7	5.9	3.11	1 1/4	2281	XHSM165459
1 1/4-7	8.3	4.29	1 1/4	2010	XHSM1635483
1 1/2-6	5.9	3.11	1 1/4	3578	XHSM163259
1 1/2-6	8.3	4.29	1 1/4	3154	XHSM163283

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A1 [in]	ADJUSTMENT C [in]	ITEM CODE
1-8	5/4	1.37	2.17	1.42	RHOXS1022
1-8	5/4	1.37	3.35	2.60	RHOXS1033
1 1/4-7	1 1/2	1.65	2.17	1.42	RHOXS5422
1 1/4-7	1 1/2	1.65	3.35	2.60	RHOXS5433
1 1/2-6	1 3/4	1.89	2.17	1.42	RHOXS3222
1 1/2-6	1 3/4	1.89	3.35	2.60	RHOXS3233

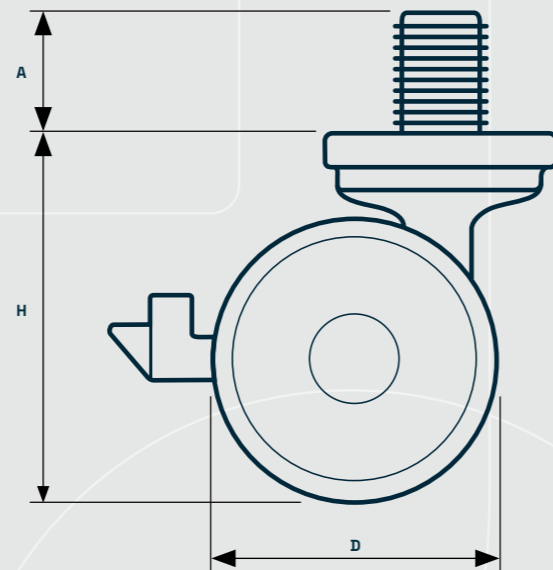
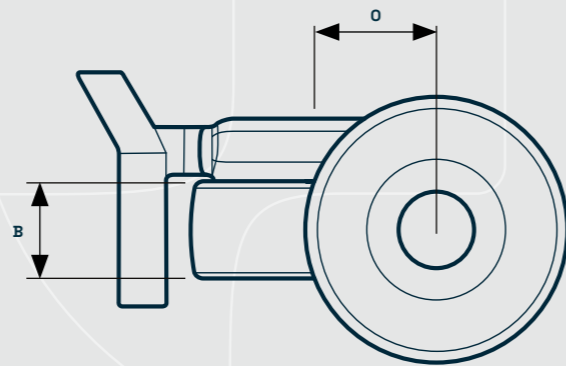
Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

# Certified hygienic Caster - XSCRB

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCRB certified hygienic swivel caster is a caster with round thread mounting. The XSCRB caster is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCRB is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.



# Certified hygienic Caster - XSCRB



CASTER



PRODUCT CODE	Caster
EXAMPLE	XSCRB100-24-40

THREAD	DIAMETER D [in]	HEIGHT H [in]	HEIGHT A [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
5/8-11	3.94	5.14	1.57	1.18	1.14	1.500	XSCRB100-16-40
3/4-10	3.94	5.14	1.57	1.18	1.14	1.500	XSCRB100-20-40
1-8	3.94	5.14	1.57	1.18	1.14	1.500	XSCRB100-24-40
1 1/4-7	3.94	5.14	1.57	1.18	1.14	1.500	XSCRB100-30-40
1 1/2-6	3.94	5.14	1.57	1.18	1.14	1.500	XSCRB100-36-40



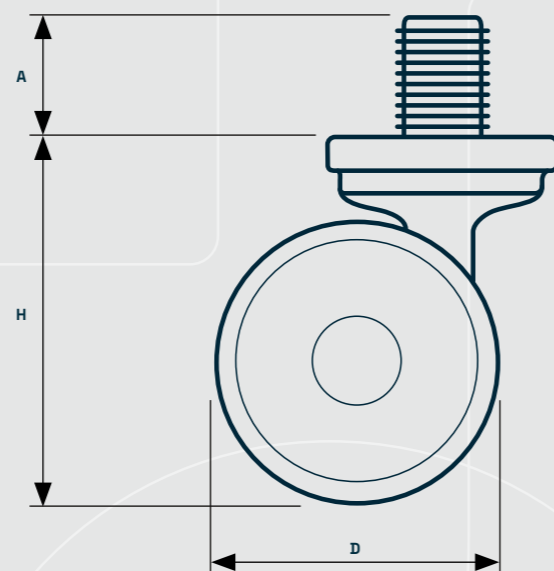
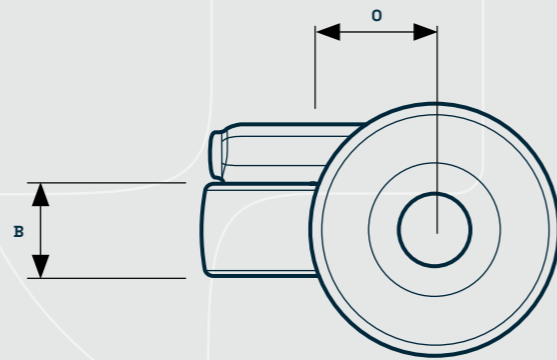
Total height = H + A  
Tolerance of total height = +/-0,02 in

# Certified hygienic Caster - XSCR

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCR certified hygienic swivel caster is a caster with round thread mounting.

The XSCR caster is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.



# Certified hygienic Caster - XSCR



CASTER



PRODUCT CODE		Caster
EXAMPLE		XSCR100-24-40

THREAD	DIAMETER D [in]	HEIGHT H [in]	HEIGHT A [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
5/8-11	3.94	5.14	1.57	1.18	1.14	1.500	XSCR100-16-40
3/4-10	3.94	5.14	1.57	1.18	1.14	1.500	XSCR100-20-40
1-8	3.94	5.14	1.57	1.18	1.14	1.500	XSCR100-24-40
1 1/4-7	3.94	5.14	1.57	1.18	1.14	1.500	XSCR100-30-40
1 1/2-6	3.94	5.14	1.57	1.18	1.14	1.500	XSCR100-36-40



Total height = H + A  
Tolerance of total height = +/-0,02 in



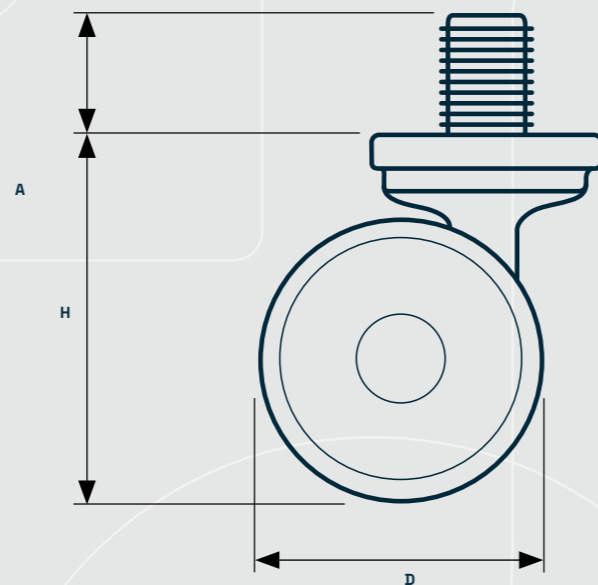
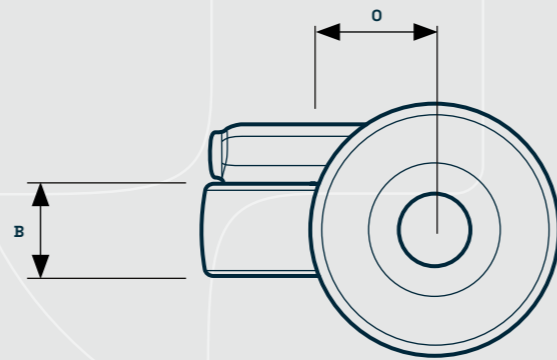
# Certified hygienic Caster - XCR

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XCR certified hygienic swivel caster is a caster with round thread mounting.

The XCR caster is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XCR has a rigid swivel.



# Certified hygienic Caster - XCR



CASTER



PRODUCT CODE							Caster
EXAMPLE							XCR100-24-40

THREAD	DIAMETER D [in]	HEIGHT H [in]	HEIGHT A [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
5/8-11	3.94	5.14	1.57	1.18	1.14	1.500	XCR100-16-40
3/4-10	3.94	5.14	1.57	1.18	1.14	1.500	XCR100-20-40
1-8	3.94	5.14	1.57	1.18	1.14	1.500	XCR100-24-40
1 1/4-7	3.94	5.14	1.57	1.18	1.14	1.500	XCR100-30-40
1 1/2-6	3.94	5.14	1.57	1.18	1.14	1.500	XCR100-36-40

Total height = H + A  
Tolerance of total height = +/-0,02 in

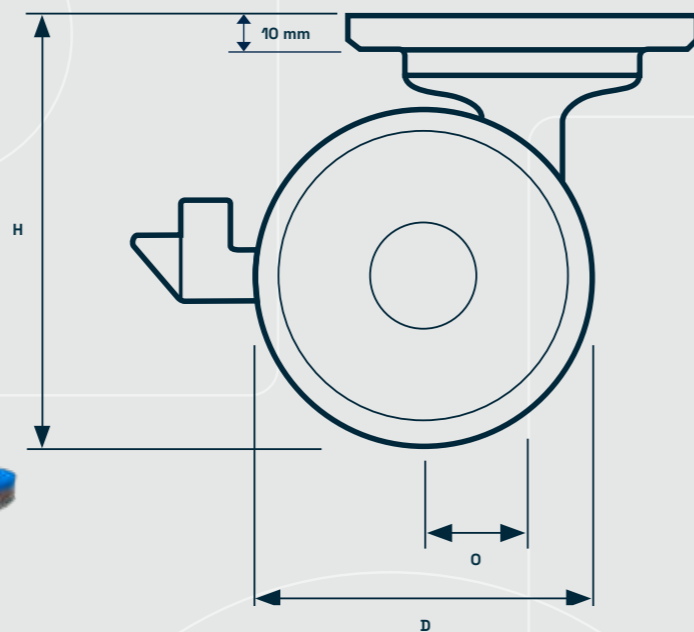
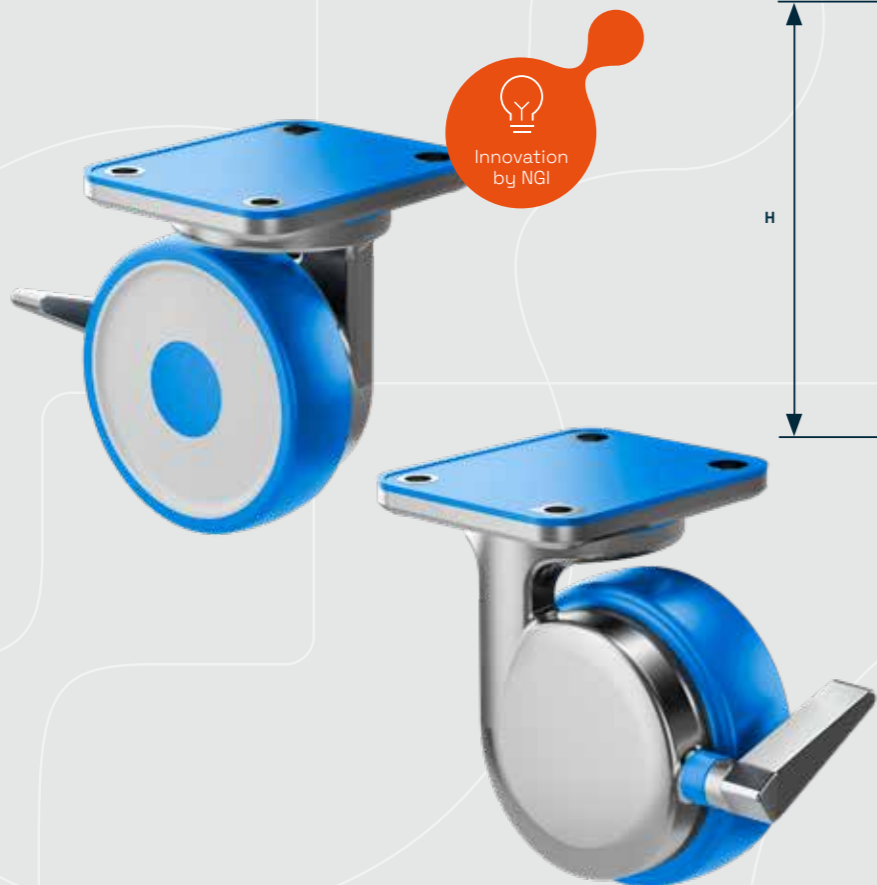
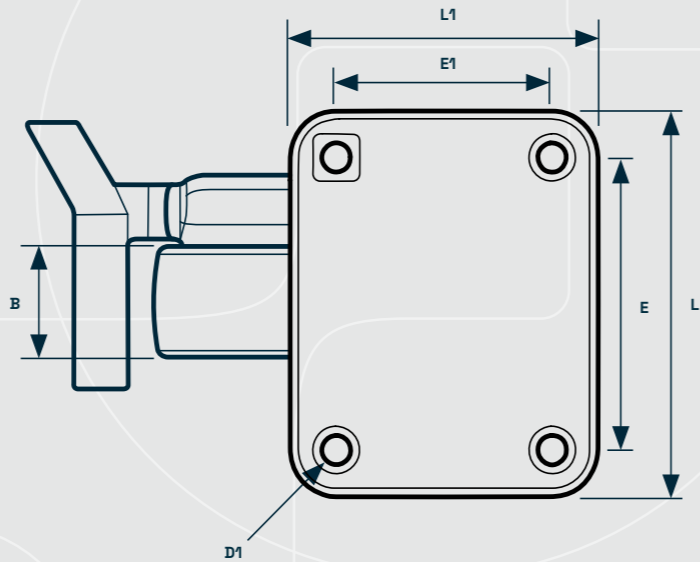


# Certified hygienic Caster - XSCSB

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCSB certified hygienic swivel caster with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XSCSB is equipped with a brake on swivel and wheel which is completely integrated in the single-sided fork housing providing accessible surfaces and extreme easy access for cleaning.



# Certified hygienic Caster - XSCSB



PRODUCT CODE	Caster
EXAMPLE	XSCSB100

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.04	1.18	1.14	1.500	XSCSB100

## FIXING PLATE

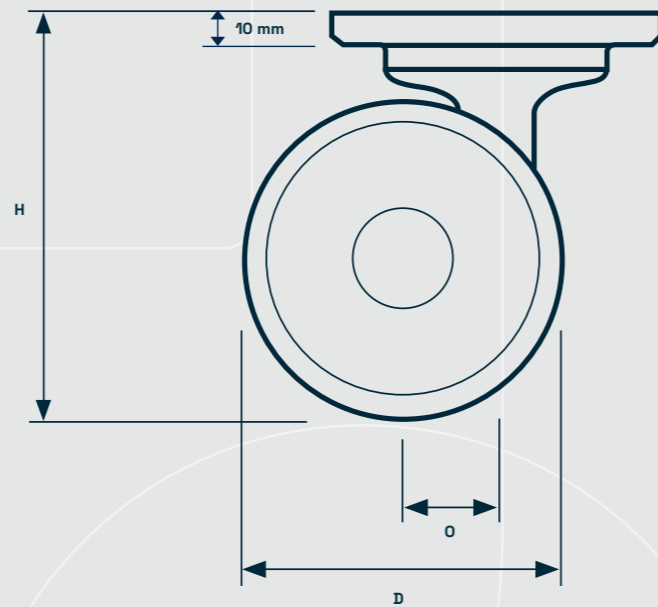
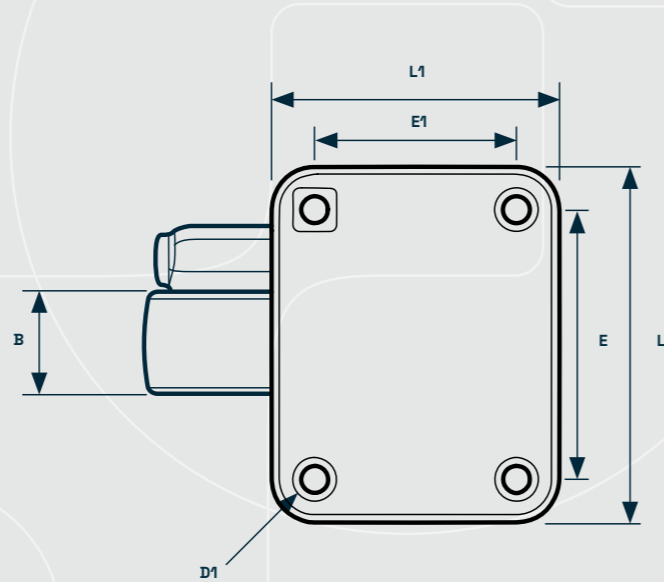


TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
100	4.13	3.35	3.15	2.36	0.33

# Certified hygienic Caster - XSCS

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XSCS certified hygienic swivel caster with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.



# Certified hygienic Caster - XSCS



PRODUCT CODE	Caster
EXAMPLE	XSCS100

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.04	1.18	1.14	1.500	XSCS100

## FIXING PLATE



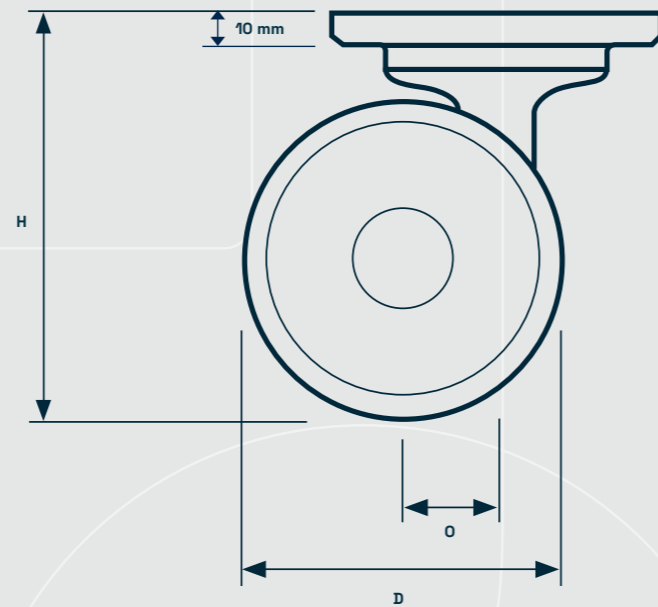
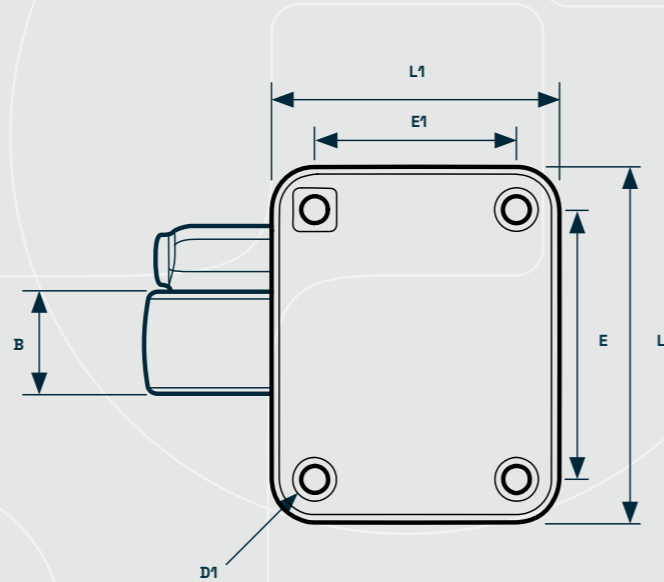
TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
100	4.13	3.35	3.15	2.36	0.33

# Certified hygienic Caster - XCS

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

The design and patent protected XCS certified hygienic swivel caster with plate fitting is the optimal choice for machinery and equipment that has to comply with strict hygiene requirements.

The XCS has a rigid swivel.



# Certified hygienic Caster - XCS



PRODUCT CODE	Caster
EXAMPLE	XCS100

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
100	3.94	5.04	1.18	1.14	1.500	XCS100

## FIXING PLATE



TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
100	4.13	3.35	3.15	2.36	0.33

# Declaration of conformity Hygienic casters

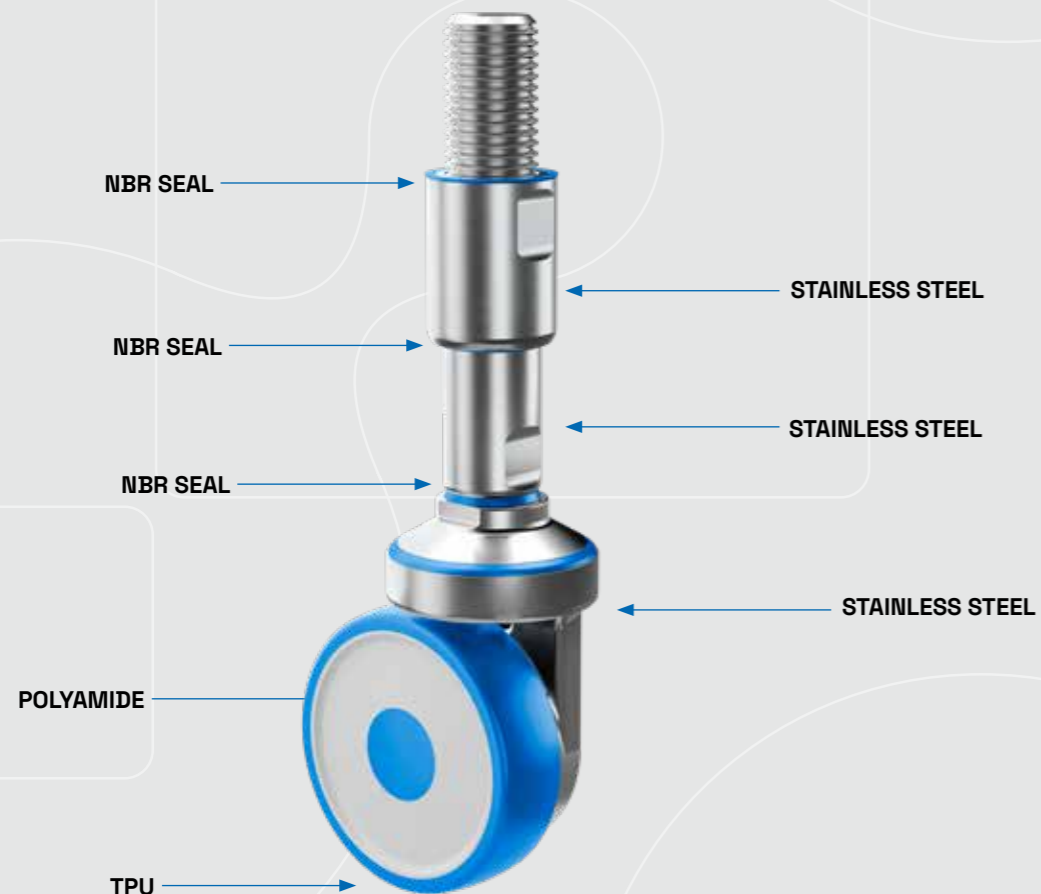


- Certified hygienic
- Minimized cleaning time
- Minimized water usage

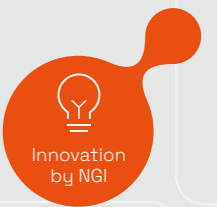
NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Hygienic casters



## The declaration of materials concerns the following Applications

**Application:** **Steel spindle and sleeve**  
**Material type:** Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.  
 By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401  
**Compliance:** EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.  
 NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each caster.

**Application:** **Caster Body:**  
**Material type steel parts:** Stainless steel, AISI 304/A2, Euronorm 1.4301  
**Compliance:** EN 12532:1999  
 Tested and verified according to EN 12527:1999  
 NGI states that the parts are in compliance with ISO 9628: 1992.  
 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.  
 NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each caster.

**Application:** **Rolling wheel**  
**Wheel rim:** PA, RAL 9010 (white)  
**Wheel thread:** TPU, RAL 5010 (blue)  
**Compliance:** Tested and verified according to EN 12527:1999  
**RoHS2:** In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.  
**European Community:** "Materials and articles to come in contact with food" - 1935:2004/EC  
 "Plastic materials and articles intended to come in contact with food" - 10:2011/EC

**Application:** **Sealing ring between steel components for NGI's casters.**  
**Material type:** NBR (NNF-75)  
**Color:** Blue  
**Hardness:** 72 ± 3 Shore A DIN 53 505  
**Range of temperature:** Min -35°C to Max +110°C

**Compliance:** REACH: In accordance with regulation EC 1907/2006.  
 Do not contain any substances above 0.1% (w/w) from:  
 The Candidate List of Substances of Very High Concern (16.01.2020).  
 Annex XVII (19-11-2019)

**RoHS 2 & RoHS 3** In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

**ADI free:** Does not contain any substances originating from humans or animals.

**Bisphenols:** Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.  
**ODS:** Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

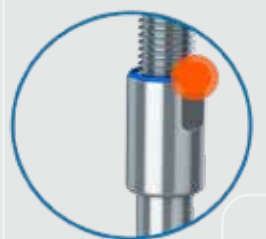
**Conflict Materials:** In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

**GMP:** Good manufacturing process in accordance with 2023/2006 EC.

**Hazardous materials:** Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

**Phthalates:** Does not contain phthalates.  
**FDA:** Guideline 21 CFR 177.2600

This certification is based on relevant information supplied by the material manufacturers



# Fully-threaded Leveling feet

The optimal fully-threaded choice for machinery and equipment in diverse production environments

They offer value-for-money and are available in numerous varieties and functions



# Fully-threaded leveling feet

The product group of fully-threaded leveling feet is the optimal choice for machinery and equipment in diverse production environments. Because of the wide variety and functionality these fully-threaded leveling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the fully-threaded leveling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

## Product Group Features

- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Fully-threaded hygienic oriented leveling feet with self-draining surfaces and limited cleaning effort
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Low-friction washer between spindle and footplate ensures easy adjustment
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

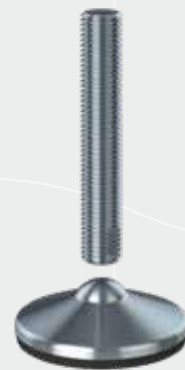


### HX

#### Special Features

- Weight load up to 70.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 10° slope on floors and equipment
- Optional fixing to the floor

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### HXT

#### Special Features

- Weight load up to 70.000 N
- Hygienic oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- Admits up to 15° slope on floors and equipment
- Optional fixing to the floor

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### M

#### Special Features

- Weight load up to 50.000 N
- Footplate diameters minimum 40 mm – maximum 180 mm
- Admits up to 5° slope on floors and equipment
- Optional single or double fixing to the floor

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## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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# Accessories for fully-threaded leveling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more  
[us.ngi-global.com/products/leveling-feet/fully-threaded](https://us.ngi-global.com/products/leveling-feet/fully-threaded)



## NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

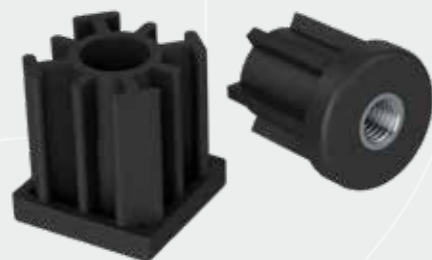
318



## WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



## PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324



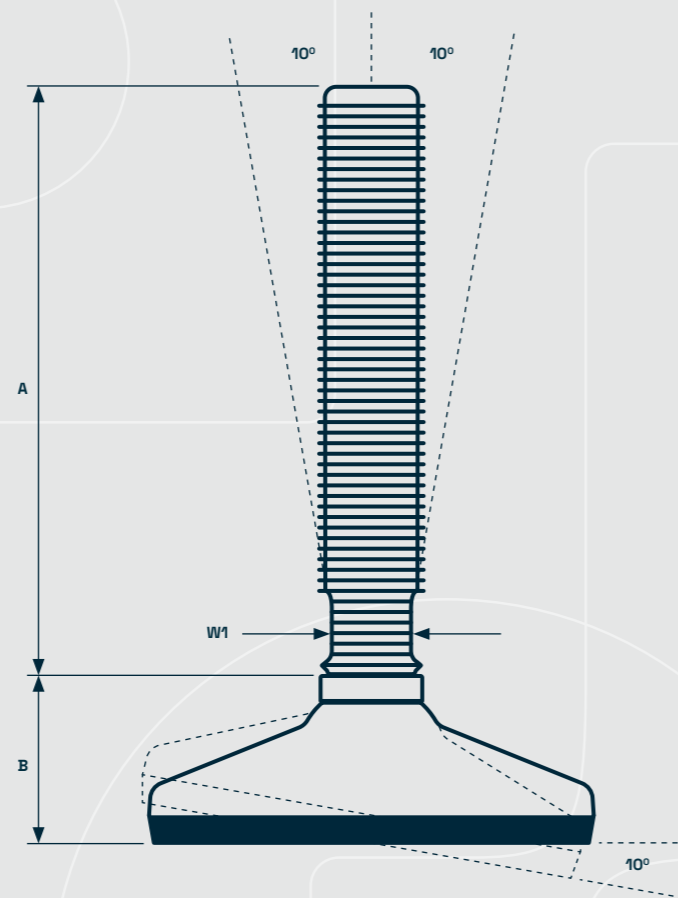
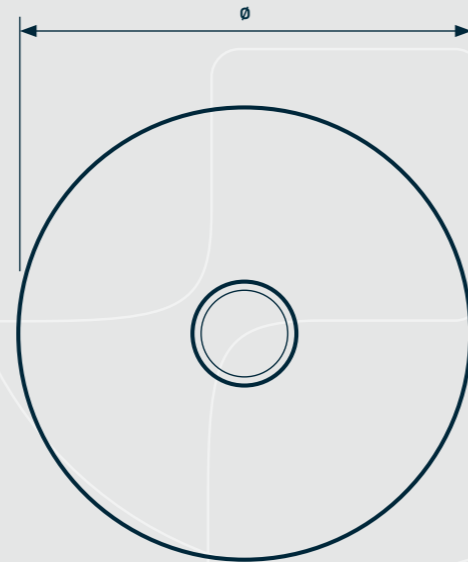


# Fully-threaded leveling feet - HX

The design and patent protected HX fully-threaded leveling foot is the optimal choice for machinery and equipment in diverse production environments.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



# Fully-threaded leveling feet - HX



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE HX065 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	2.56	1.33	9.000	HX065
80	3.15	1.53	15.000	HX080
105	4.13	1.55	22.000	HX105
125	4.92	1.57	32.000	HX125
150	5.91	1.65	70.000	HX150

## SPINDLE



TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
1/2-13	18.900	18.900	10.000	5.500	3.800	3.000	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	126.000	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	
HEIGHT A [in]							



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in

\* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30, M36 or M42

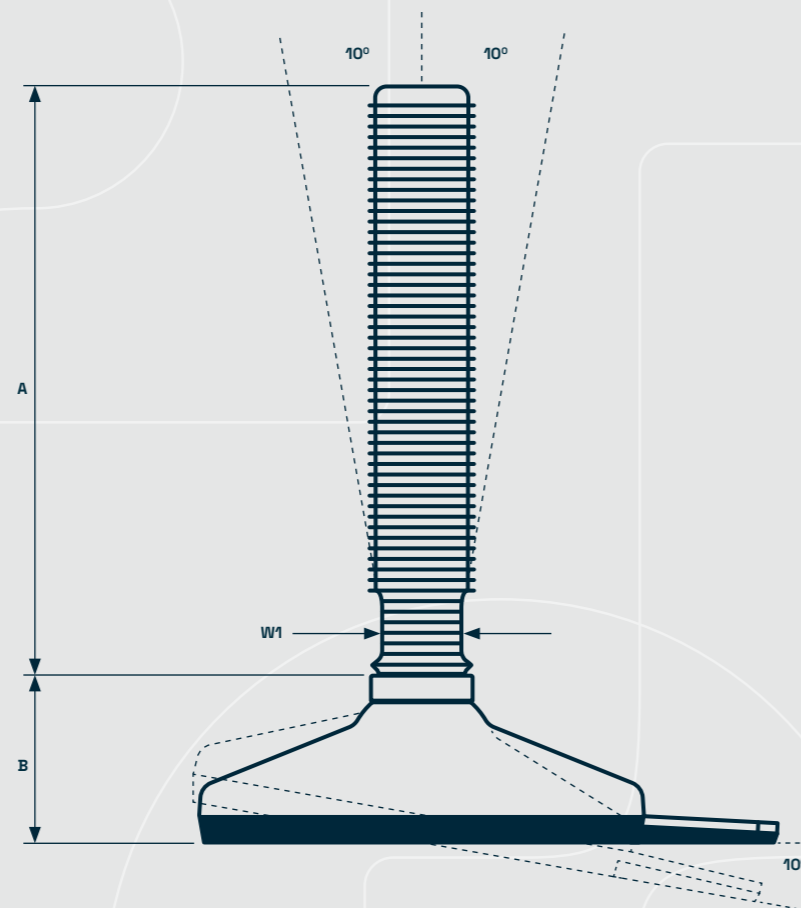
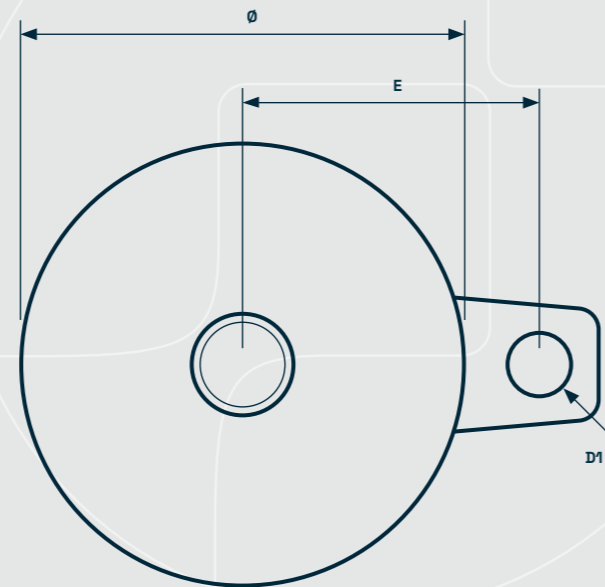
# Fully-threaded leveling feet - HX Fixing

The design and patent protected HX Fixing fully-threaded leveling foot is the optimal choice for machinery and equipment in diverse production environments.

The HX Fixing is designed to be fastened to the floor by the fixing plate. Bolt, nut and washer can be supplied.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



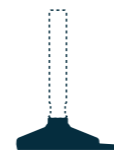
# Fully-threaded leveling feet - HX Fixing



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE HX-FIX066 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
66	2.56	1.33	46.8	0.59	9.000	HX-FIX066
81	3.15	1.53	53.2	0.59	15.000	HX-FIX081
106	4.13	1.55	70.0	0.59	22.000	HX-FIX106
126	4.92	1.57	80.0	0.59	32.000	HX-FIX126

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
1/2-13	18.900	18.900	10.000	5.500	3.800	3.000	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	126.000	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in

\* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30, M36 or M42

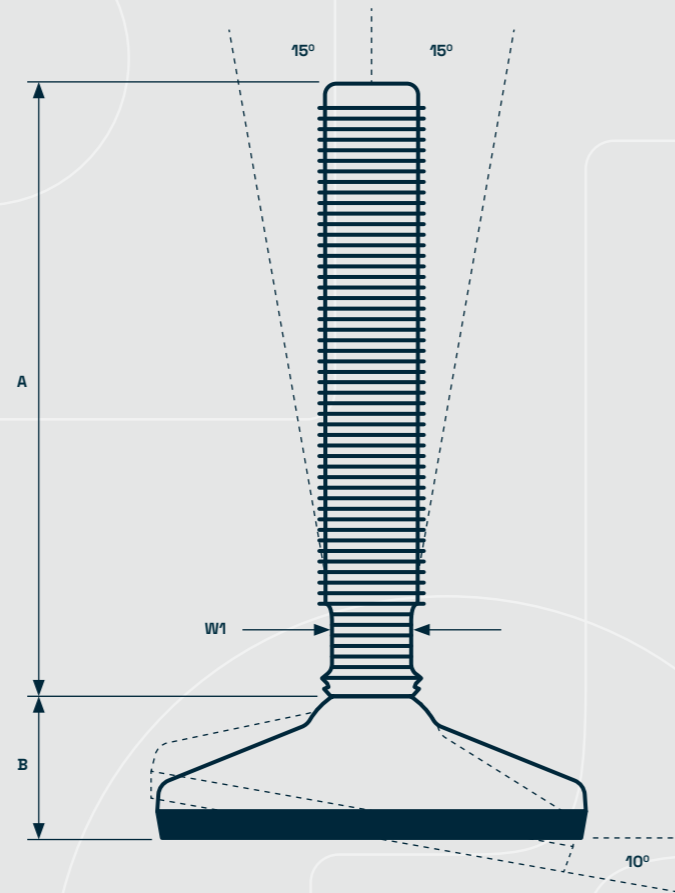
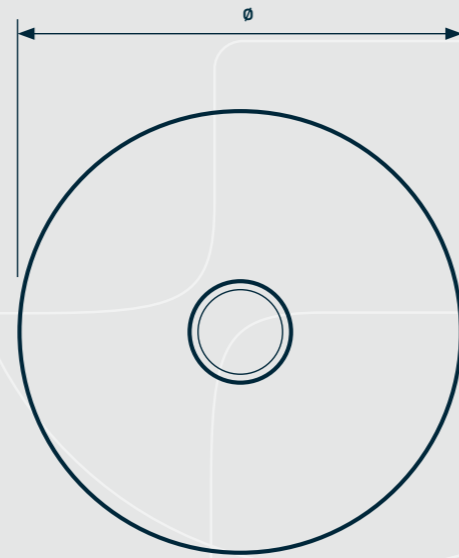
# Fully-threaded leveling feet - HXT

The design and patent protected HXT fully-threaded leveling foot is the optimal choice for machinery and equipment in diverse production environments.

The HXT consists of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

Minimum cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



# Fully-threaded leveling feet - HXT



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE HXT080 - 10 - 3

## FOOT PLATE



TYPE	DIAMETER $\varnothing$ [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	3.15	1.35	15.000	HXT080
105	4.13	1.37	22.000	HXT105
125	4.92	1.39	32.000	HXT125
150	5.91	1.46	65.000	HXT150

## SPINDLE



TYPE	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in]	3	4	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in



\* Adjust A +1 mm and B -1 mm if footplate is combined with spindle M24  
 \*\* Adjust A +2 mm and B -2 mm if footplate is combined with spindle M30, M36 or M42

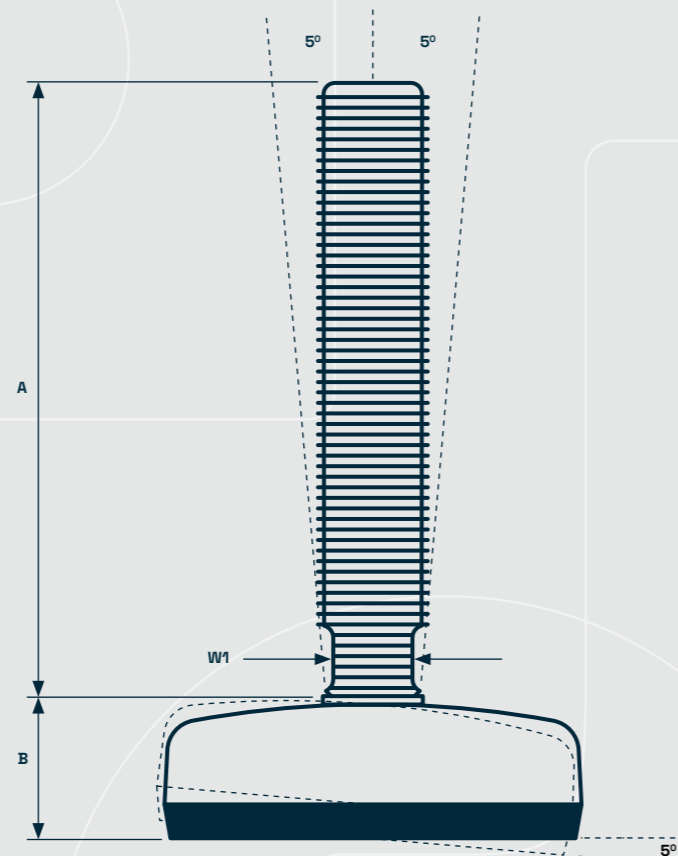
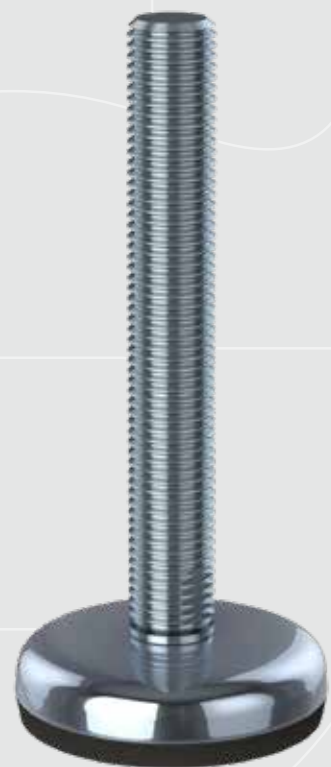
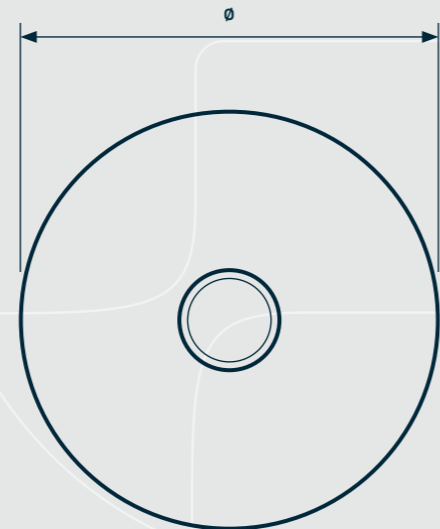
# Fully-threaded leveling feet - M

The design and patent protected M fully-threaded leveling foot is the optimal choice for machinery and equipment in diverse production environments.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



# Fully-threaded leveling feet - M



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE M040 - 38 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
40	1.57	0.85	2.500	M040
50	1.97	0.89	4.000	M050
75	2.95	0.93	10.000	M075
100	3.94	1.32	22.000	M100
105	4.13	1.24	12.000	M105
125	4.92	1.52	30.000	M125
150	5.91	1.64	45.000	M150
180	7.09	1.64	50.000	M180

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
* 3/8-6	3.500	3.500	3.100	2.000	1.100	-	5/16
* 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
** 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in



\* M8 spindle only supplied for M40 footplate  
 \*\* M10 spindle not supplied for M100 - M180 footplates  
 \*\*\* M30, M36 and M42 spindle not supplied for M40 and M50 footplates

# Fully-threaded leveling feet - M Fixing

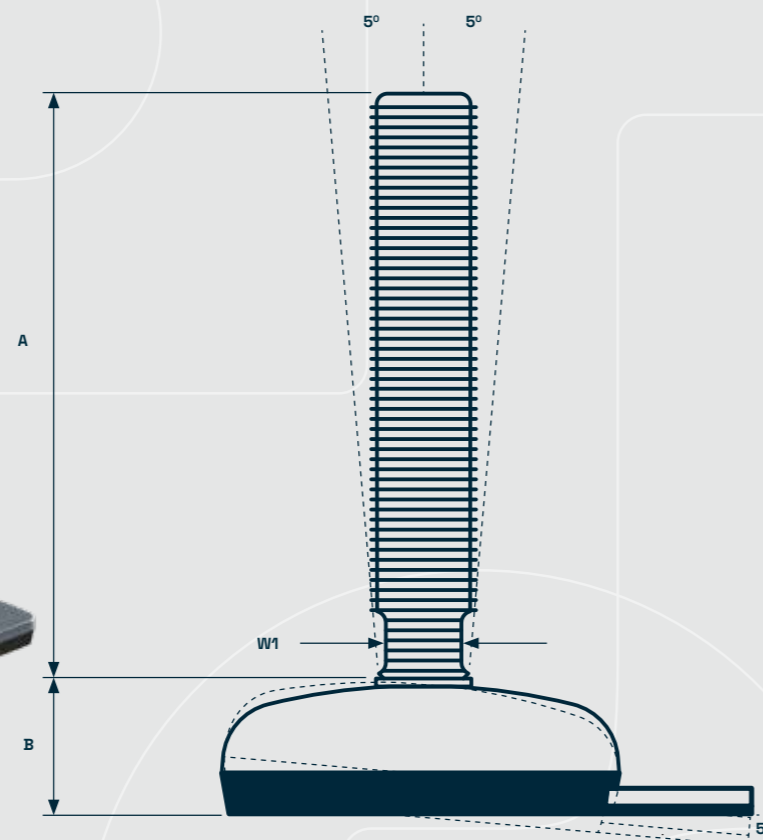
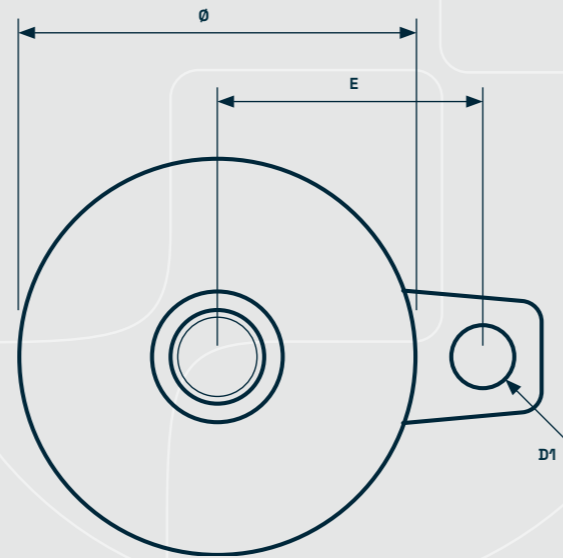
The design and patent protected M Fixing fully-threaded leveling foot is the optimal choice for standardized machinery and equipment in diverse production environments.

The M Fixing is designed to be fastened to the floor by the fixing plate. Bolt, nut and washer can be supplied.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



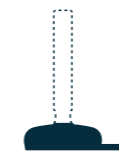
# Fully-threaded leveling feet - M Fixing



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE M-FIX076 -38 -3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
76	2.99	0.93	2.05	0.58	12.000	M-FIX076
106	4.17	1.32	2.64	0.58	14.000	M-FIX106

## SPINDLE



TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
* 3/8-6	3.500	3.500	3.100	2.000	1.100	-	5/16
* 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in

\* M10 spindle not supplied for M106 footplate

# Fully-threaded leveling feet - M 2 Fixing

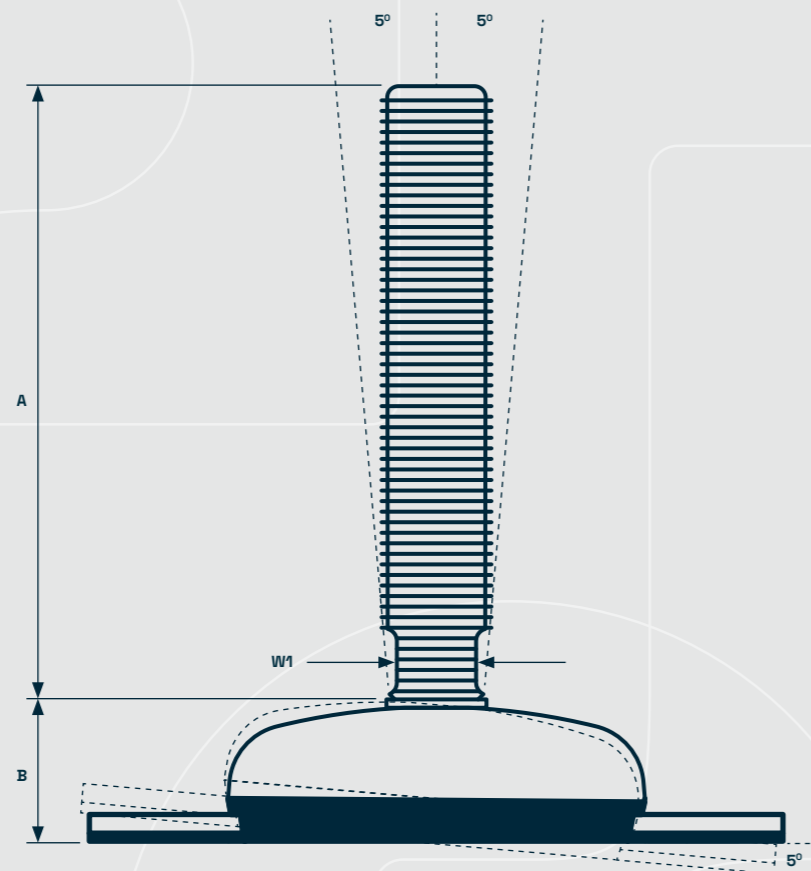
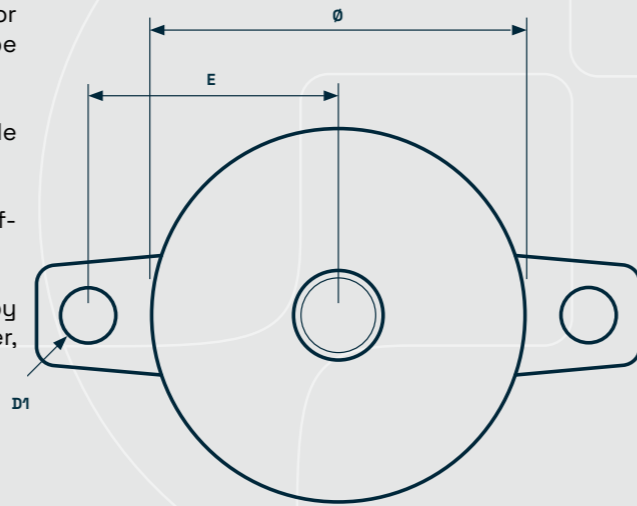
The design and patent protected M Double Fixing fully-threaded leveling foot is the optimal choice for machinery and equipment in diverse production environments.

The M Double Fixing is designed to be fastened to the floor by the two fixing plates. Bolts, nuts and washers can be supplied.

The wide footplate variety makes the Type M Series applicable to all sizes of machinery and equipment.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.



# Fully-threaded leveling feet - M 2 Fixing



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE M-FIXx2077 -38 - 3

## FOOT PLATE

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
77	3.03	0.93	2.05	0.58	12.000	M-FIXx2077



## SPINDLE

TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
* 3/8-16	3.500	3.500	3.100	2.000	1.100	-	5/16
* 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT ▶ A [in]	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in

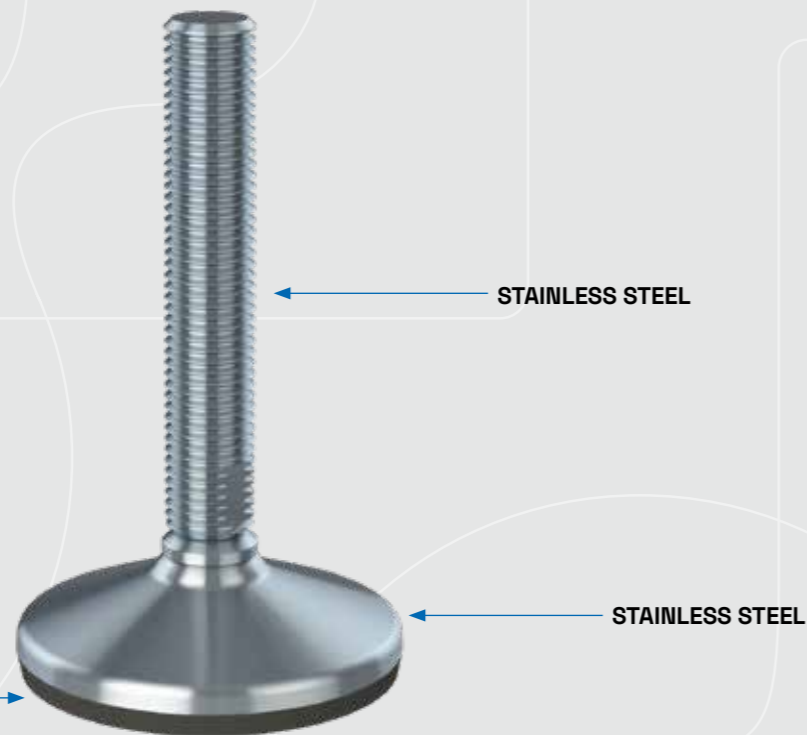
# Declaration of conformity Fully-threaded leveling feet



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Fully-threaded leveling feet

## THE DECLARATION OF MATERIALS CONCERNS THE FOLLOWING APPLICATIONS

### Application:

Material type:

**Steel components, e.g. spindle, sleeve and cover for foot**

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.

Compliance:

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401

EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

**Foot base for NGI A/S's hygienic machine feet**

NBR (NNF-75)

Color:

Black & blue

Hardness:

72 ± 3 Shore A DIN 53 505

Range of temperature:

Min -35°C to Max +110 °C

Compliance:

REACH:

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020).

Annex XVII (19-11-2019)

RoHS 2 &

RoHS 3:

ADI free:

Bisphenols:

In accordance with the Directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY.

Does not contain any substances originating from humans or animals.

Does not contain bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the

Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16

SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE

COUNCIL OF 29 JUNE 2000.

Conflict

Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous

Materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

# Fully-threaded Solid leveling feet

The optimal fully-threaded choice for heavy machinery and equipment in diverse production environments

They offer value-for-money and are available in numerous varieties and functions





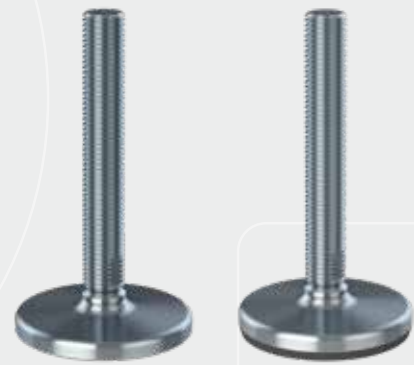
# Solid fully-threaded leveling feet

The product group of solid fully-threaded leveling feet is the optimal choice for heavy machinery and equipment in diverse production environments. Because of the wide variety and functionality these solid fully-threaded leveling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the solid fully-threaded leveling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

## Product Group Features

- Designed for high load and high pull
- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Solid fully-threaded hygienic oriented leveling feet with self-draining surfaces and limited cleaning effort
- Optional vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

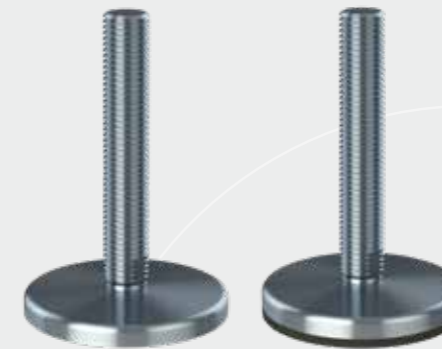


### HXG/HXG AS

#### Special Features

- Footplate diameter 3.11 in - 5.87 in
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 9° slope on floors and equipment
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

180

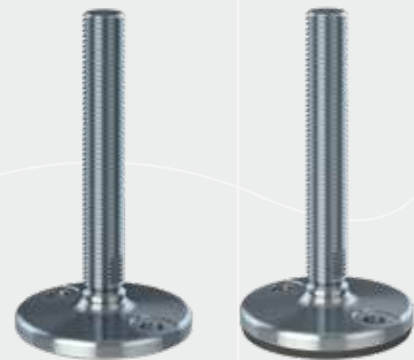


### KG/KG AS

#### Special Features

- Footplate diameter 3.50 in - 7.05 in
- Weight load up to 120.000 N
- Admits up to 8° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

186



### HXJ/HXJ AS

#### Special Features

- Footplate diameter 3.11 in - 5.87 in
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 9° slope on floors and equipment
- Fixing to the floor
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

182

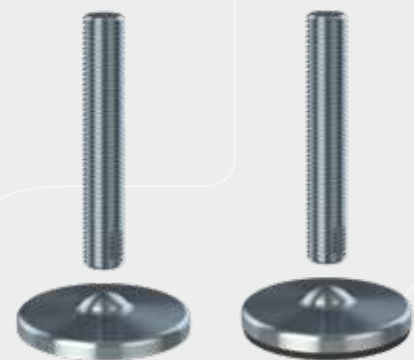


### KJ/KJ AS

#### Special Features

- Footplate diameter 3.50 in - 7.05 in
- Weight load up to 120.000 N
- Admits up to 8° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

188

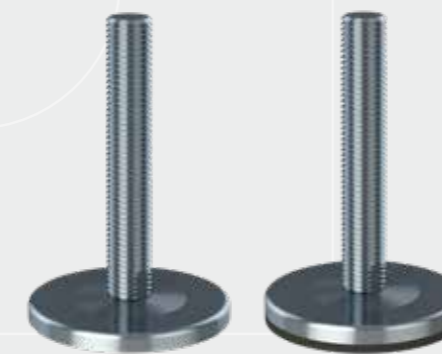


### HXGT/HXGT AS

#### Special Features

- Footplate diameter 3.11 in - 5.87 in
- Weight load up to 110.000 N
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Diametrically centered elevation on the footplate
- Admits up to 15° slope on floors and equipment
- Optional vulcanized, FDA-approved, anti-vibration, anti-slip rubber

184



### G/G AS

#### Special Features

- Footplate diameter 3.50 in - 7.05 in
- Weight load up to 120.000 N
- Admits up to 1° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

190

# Solid fully-threaded leveling feet

The product group of solid fully-threaded leveling feet is the optimal choice for heavy machinery and equipment in diverse production environments. Because of the wide variety and functionality these solid fully-threaded leveling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the solid fully-threaded leveling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

## Product Group Features

- Designed for high load and high pull
- Design and patent protected
- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Several thousand different variations (weight load, height-adjustment, flexible mounting parts)
- Solid fully-threaded hygienic oriented leveling feet with self-draining surfaces and limited cleaning effort
- Optional vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Low-friction washer between spindle and footplate ensures easy adjustment
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

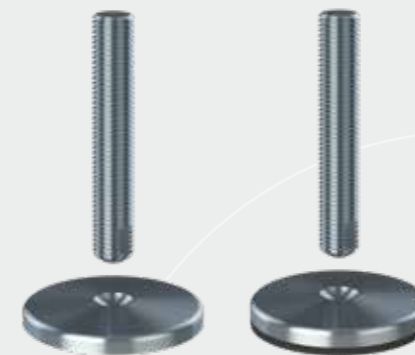


### J/J AS

#### Special Features

- Footplate diameter 3.50 in - 7.05 in
- Weight load up to 120.000 N
- Admits up to 1° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

192

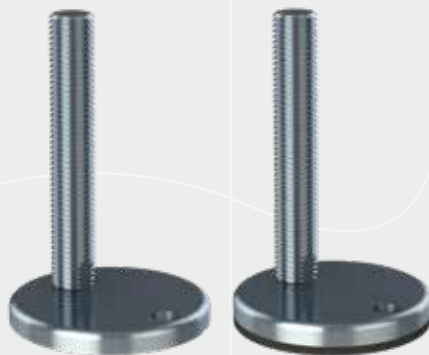


### KT/KT AS

#### Special Features

- Footplate diameter 3.50 in - 4.29 in
- Weight load up to 200.000 N
- The footplate and spindle are two separate parts
- Diametrically centered depression in the footplate
- Admits up to 20° slope on floors and equipment
- Optional anti-vibration and anti-slip rubber

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### CF/CF AS

#### Special Features

- Footplate diameter 4.33 in - 7.05 in
- Weight load up to 120.000 N
- Decentered spindle in the footplate
- Admits up to 1° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

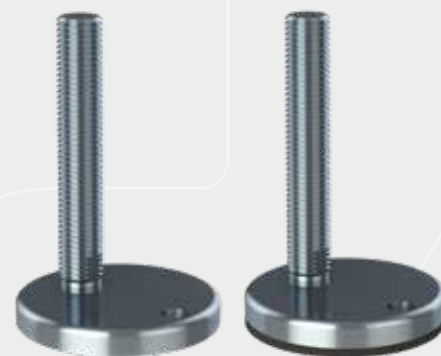
194



## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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### KCF/KCF AS

#### Special Features

- Footplate diameter 4.29 in
- Weight load up to 100.000 N
- Decentered spindle in the footplate
- Admits up to 8° slope on floors and equipment
- Fixing to the floor
- Optional anti-vibration and anti-slip rubber

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# Accessories for solid fully-threaded leveling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more  
[us.ngi-global.com/products/leveling-feet/solid-fully-threaded](https://us.ngi-global.com/products/leveling-feet/solid-fully-threaded)



## NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

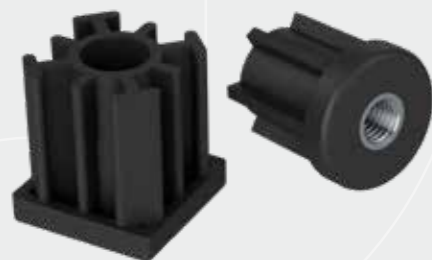
318



## WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



## PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324



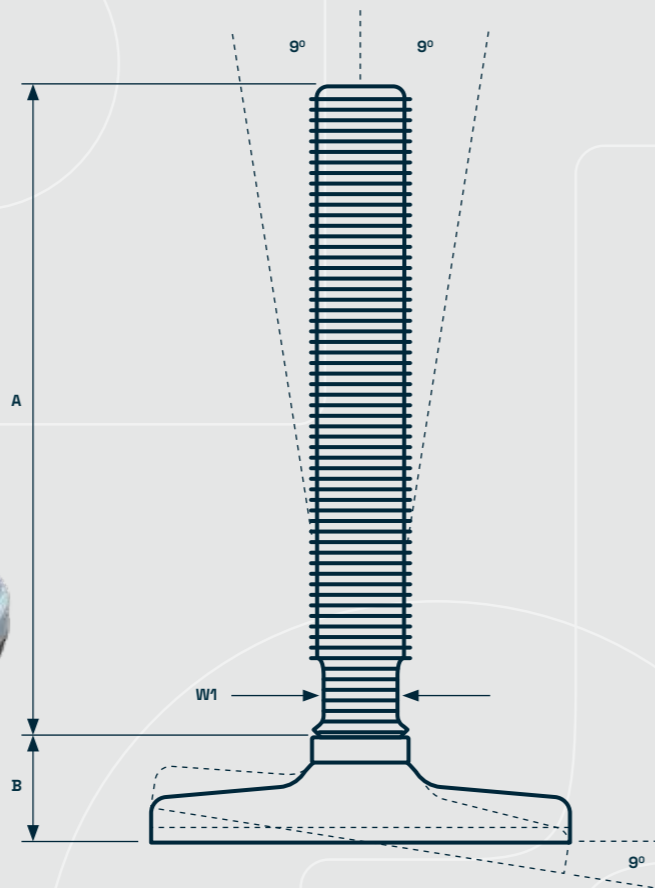
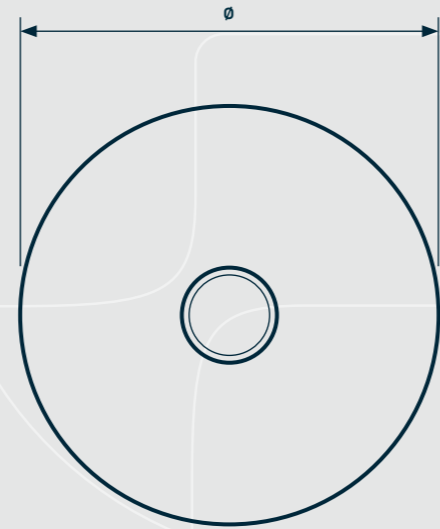
# Solid fully-threaded leveling feet - HXG/HXG AS

The design and patent protected solid HXG and HXG AS leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments and the most hygienic solid fully-threaded leveling foot.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

The joined connection between the spindle and the footplate is designed for high load and high pull, and the low-friction washer between the spindle and footplate ensures easy adjustment under high pressure.

The HXG AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



# Solid fully-threaded leveling feet - HXG/HXG AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXG105 - 34 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	3.11	1.02	110.000	HXG080
80AS	3.11	1.21	35.000	HXG-AS080
105	4.09	1.02	110.000	HXG105
105AS	4.09	1.21	110.000	HXG-AS105
125	4.88	1.02	110.000	HXG125
125AS	4.88	1.21	110.000	HXG-AS125
150	5.87	1.02	110.000	HXG150
150AS	5.87	1.21	110.000	HXG-AS150

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	-	65.000	65.000	60.000	39.000	25.000	5/8
1-8	-	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in]	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Adjust A +4 mm and B -4 mm if footplate is combined with spindle M30, M36 or M42

# Solid fully-threaded leveling feet - HXJ/HXJ AS

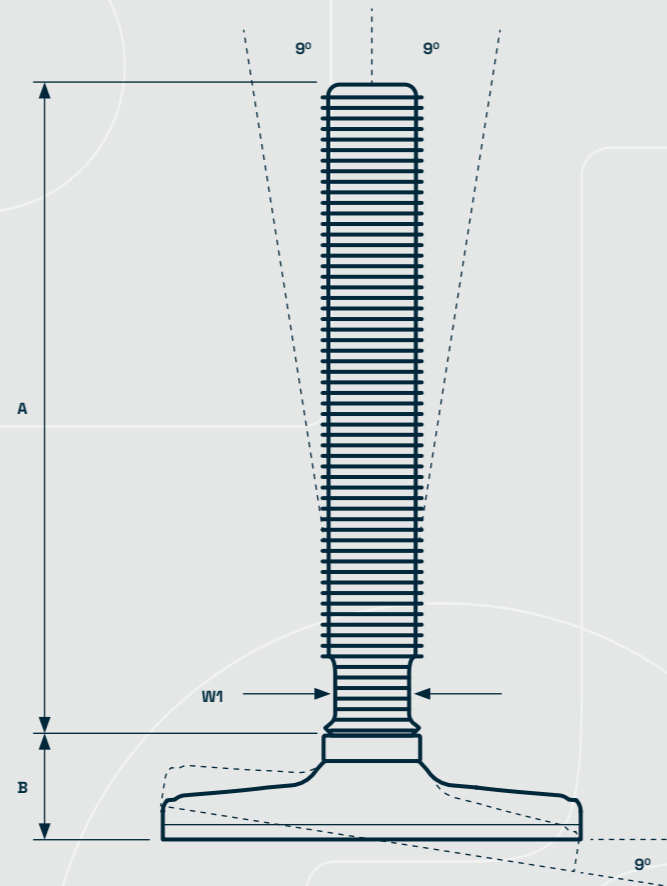
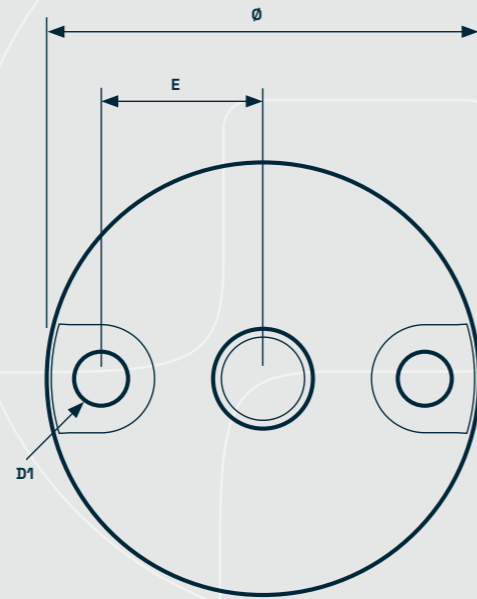
The design and patent protected solid HXJ and HXJ AS leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

It is the most hygienic solid fully-threaded leveling foot that can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for high load and high pull, and the low-friction washer between the spindle and footplate ensures easy adjustment under high pressure.

The HXJ AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



# Solid fully-threaded leveling feet - HXJ/HXJ AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HXJ105 - 34 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	3.11	1.02	1.14	0.33	110.000	HXJ080
80AS	3.11	1.21	1.14	0.33	110.000	HXJ-AS080
105	4.09	1.02	1.50	0.51	110.000	HXJ105
105AS	4.09	1.21	1.50	0.51	110.000	HXJ-AS105
125	4.88	1.02	1.85	0.51	110.000	HXJ125
125AS	4.88	1.21	1.85	0.51	110.000	HXJ-AS125
150	5.87	1.02	2.44	0.51	110.000	HXJ150
150AS	5.87	1.21	2.44	0.51	110.000	HXJ-AS150

## SPINDLE



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Adjust A +4 mm and B -4 mm if footplate is combined with spindle M30, M36 or M42

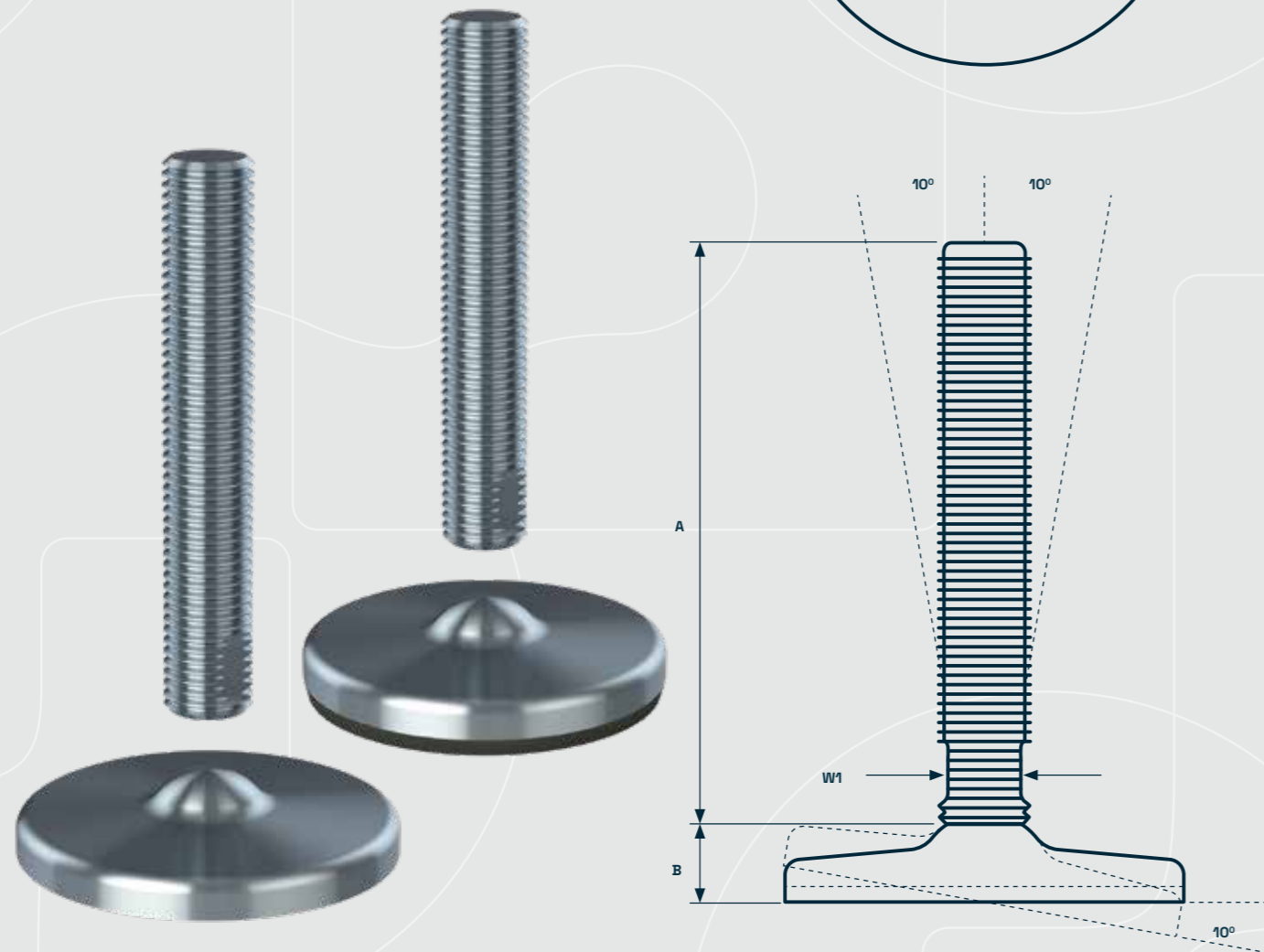
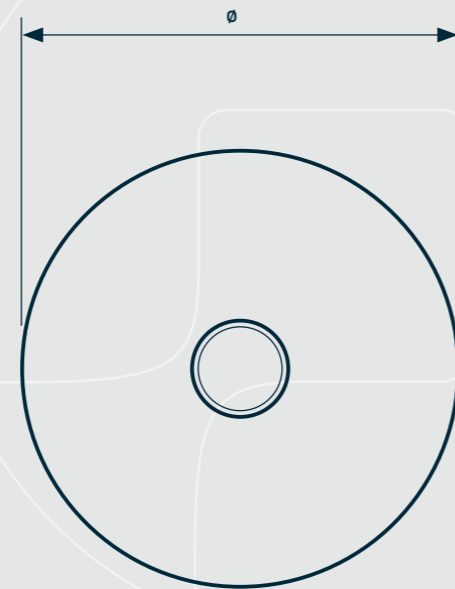
# Solid fully-threaded leveling feet - HXGT/HXGT AS

The design and patent protected solid HXGT and HXGT AS leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments and the most hygienic solid fully-threaded leveling foot.

The HXGT and HXGT AS consist of a separated footplate and spindle connected by the diametrically centered elevation on the footplate.

Reduced cleaning effort is obtained by the hygienic-oriented design with self-draining surfaces.

The HXGT AS is supplied with vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and creates a hygienic seal to the floor.



# Solid fully-threaded leveling feet - HXGT/HXGT AS



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE HXGT105 - 10 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
080	3.11	0.83	110.000	HXGT080
080AS	3.11	1.03	110.000	HXGT-AS080
105	4.09	0.83	110.000	HXGT105
105AS	4.09	0.99	110.000	HXGT-AS105
125	4.88	0.83	110.000	HXGT125
125AS	4.88	0.99	110.000	HXGT-AS125
150	5.87	0.83	110.000	HXGT150
150AS	5.87	0.97	110.000	HXGT-AS150

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

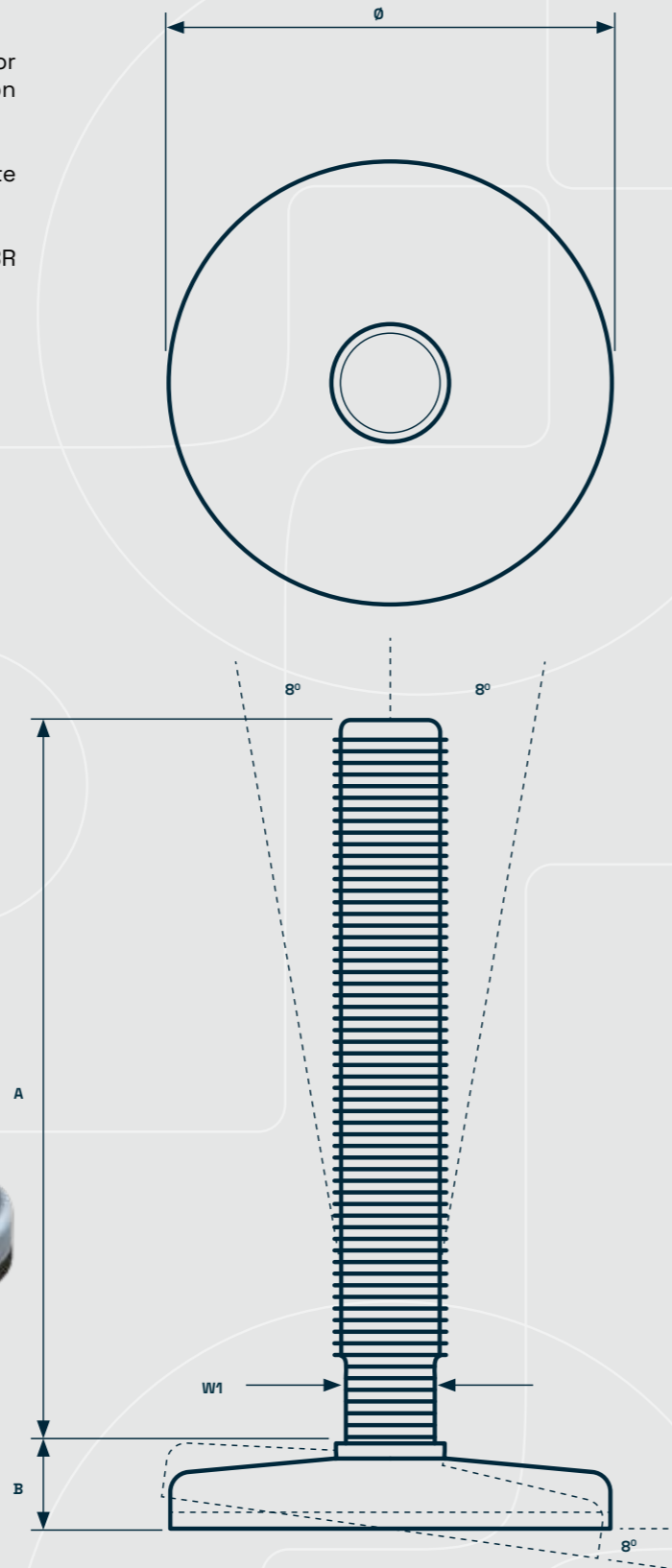
\* Adjust A +1 mm and B -1 mm if footplate is combined with spindle M24  
 \*\* Adjust A +2 mm and B -2 mm if footplate is combined with spindle M30, M36 or M42

# Solid fully-threaded leveling feet - KG/KG AS

The solid KG leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The joined connection between the spindle and the footplate is designed for very high load and high pull.

The KG AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - KG/KG AS



## FOOT PLATE



## SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
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EXAMPLE KG090 - 12 - 4

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.67	70.000	KG090
90AS	3.50	0.87	40.000	KG-AS090
110	4.29	0.67	70.000	KG110
110AS	4.29	0.87	70.000	KG-AS110
150	5.87	0.82	120.000	KG150
150AS	5.87	1.02	120.000	KG-AS150
180	7.05	0.86	120.000	KG180
180AS	7.05	0.86	120.000	KG-AS180

TYPE ►	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[in]
* 1/2-13	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	78.000	62.000	42.000	3/4
1 1/4-7	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ►	4	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* M12 spindle not supplied for KG150 and KG180 footplates  
 \*\* Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42

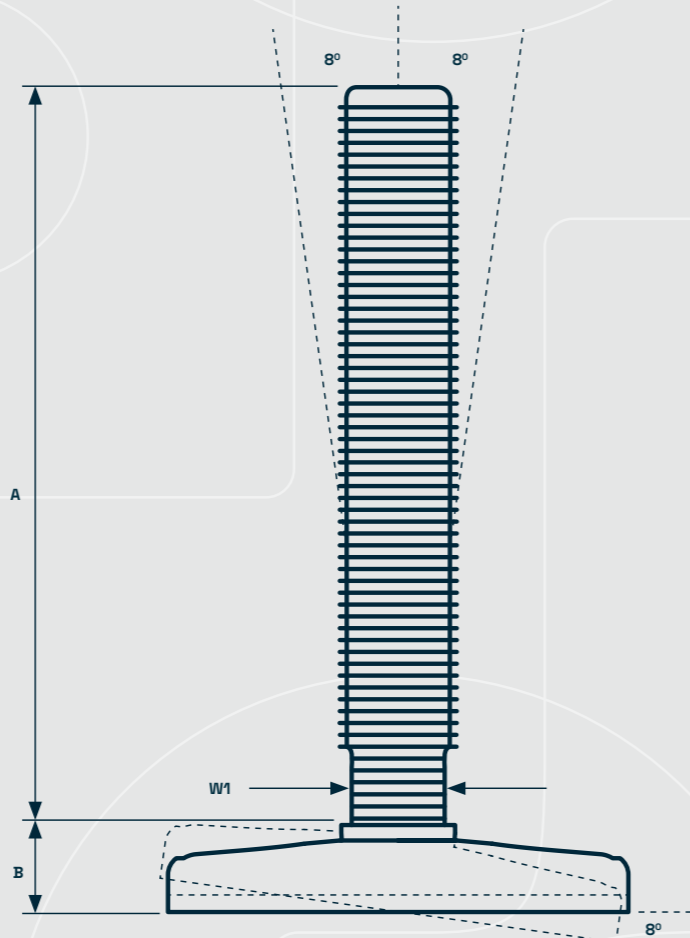
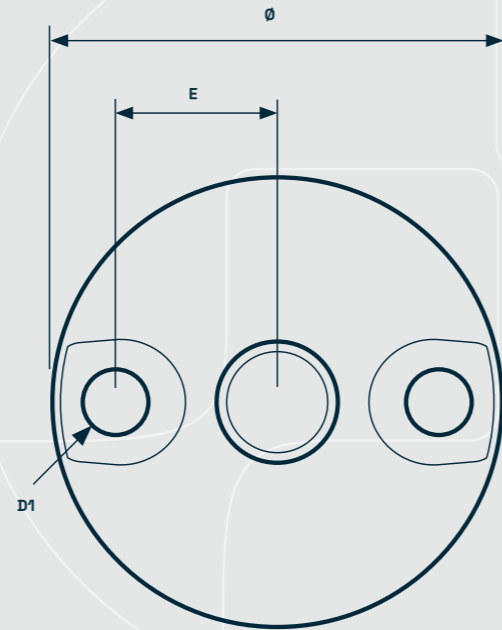
# Solid fully-threaded leveling feet - KJ/KJ AS

The solid KJ leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for very high load and high pull.

The KJ AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - KJ/KJ AS



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE KJ090 - 12 - 4

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.67	1.26	0.51	70.000	KJ090
90AS	3.50	0.87	1.26	0.51	40.000	KJ-AS090
110	4.29	0.67	1.73	0.51	70.000	KJ110
110AS	4.29	0.87	1.73	0.51	70.000	KJ-AS110
150	5.87	0.73	2.44	0.63	120.000	KJ150
150AS	5.87	0.93	2.44	0.63	120.000	KJ-AS150
180	7.05	0.77	2.91	0.63	120.000	KJ180
180AS	7.05	0.97	2.91	0.63	120.000	KJ-AS180

## SPINDLE



TYPE ▶	4	6	8	10	12	W1
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[in]
* 1/2-13	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	78.000	62.000	42.000	3/4
1 1/4-7	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in]	4	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/- 0,02 in  
 AS = Anti-Slip

\* M12 spindle not supplied for footplate KJ150 and KJ180  
 \*\* Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42



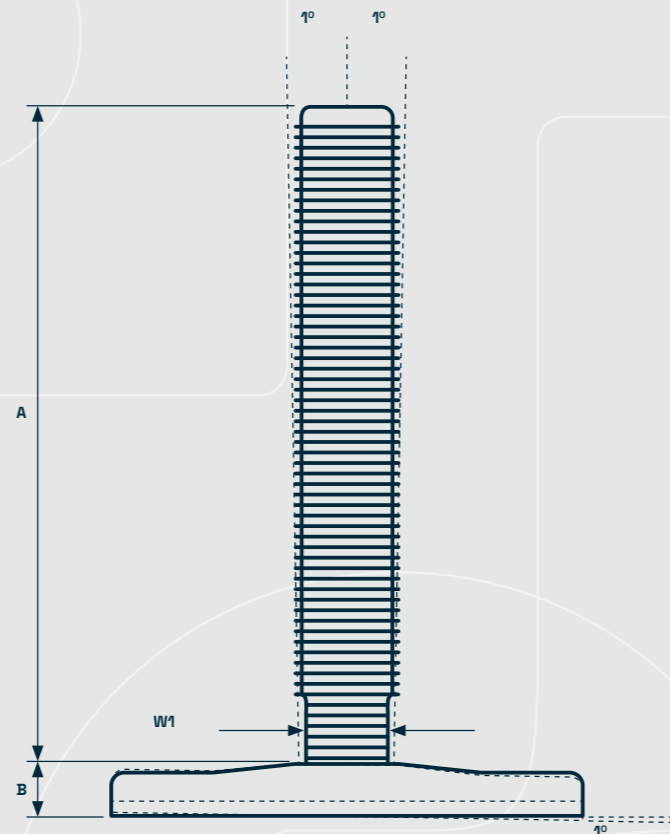
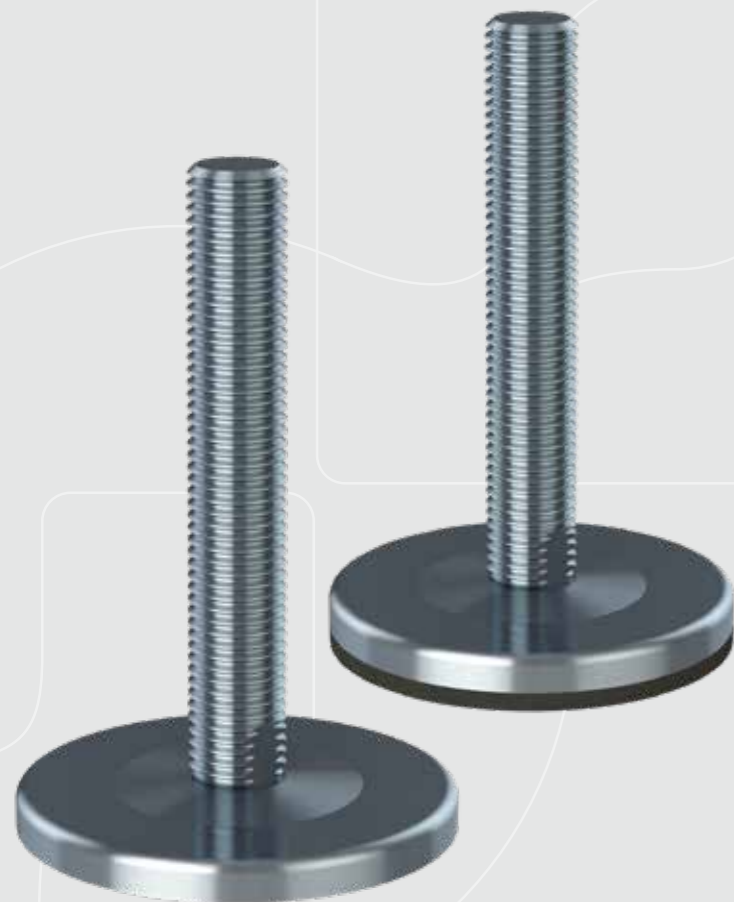
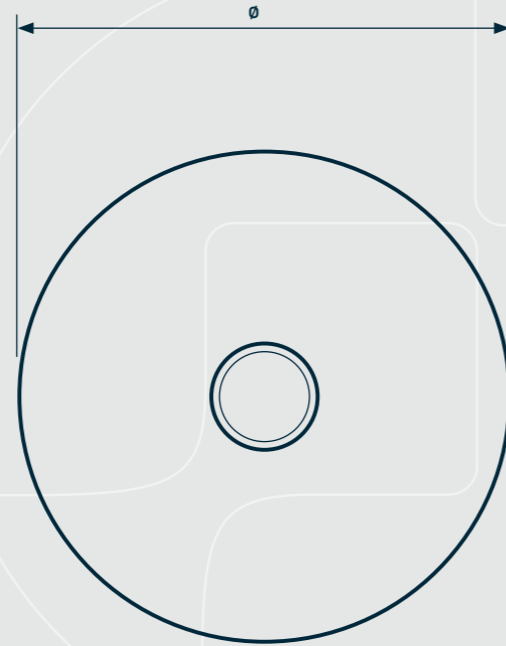


# Solid fully-threaded leveling feet - G/G AS

The solid G leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The joined connection between the spindle and the footplate is designed for very high load and high pull and fixed mounting on horizontal surfaces.

The G AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - G/G AS



## FOOT PLATE



## SPINDLE



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
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EXAMPLE G090 - 12- 6

TYPE	DIAMETER $\varnothing$ [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.47	70.000	G090
90AS	3.50	0.67	40.000	G-AS090
110	4.29	0.47	70.000	G110
110AS	4.29	0.67	70.000	G-AS110
150	5.87	0.43	100.000	G150
150AS	5.87	0.63	100.000	G-AS150
180	7.05	0.55	120.000	G180
180AS	7.05	0.75	120.000	G-AS180

TYPE	6	8	10	12	W1
THREAD [UNC]	[N]	[N]	[N]	[N]	[in]
* 1/2-13	10.000	5.500	3.800	-	3/8
5/8-11	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	60.000	39.000	25.000	5/8
** 1-8	79.400	78.000	62.000	42.000	3/4
** 1 1/4-7	126.000	126.000	122.000	115.000	1
HEIGHT A [in]	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Adjust A -2 mm and B +2 mm if footplate is combined with spindle M24, M30, M36 or M42



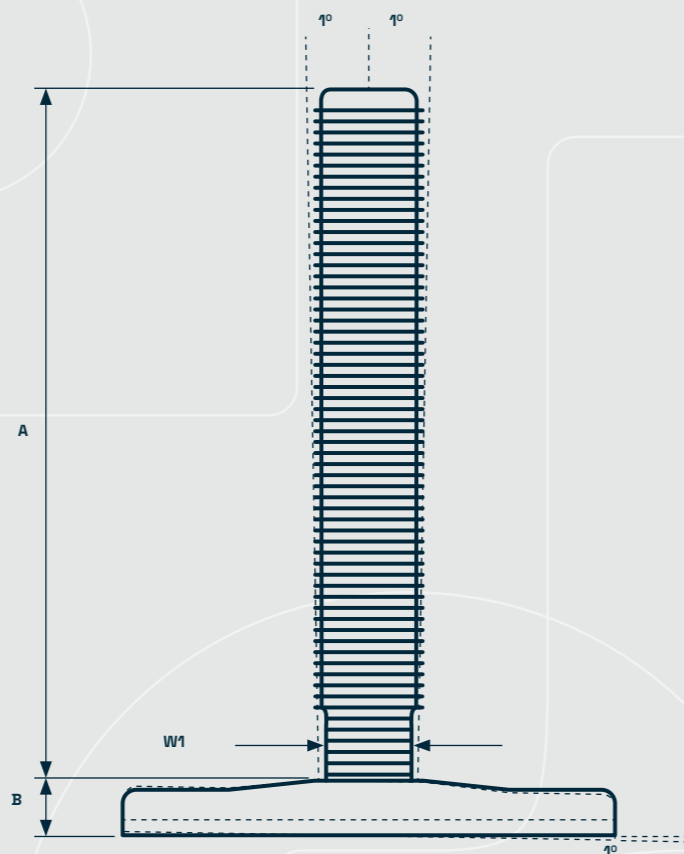
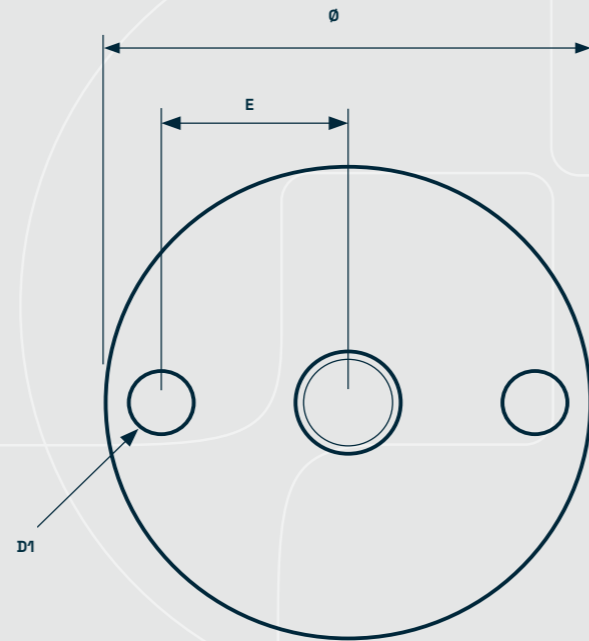
# Solid fully-threaded leveling feet - J/J AS

The solid J leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can be fastened to the floor by the two fixing holes in the footplate. Bolts, nuts and washers can be supplied.

The joined connection between the spindle and the footplate is designed for very high load and high pull and fixed mounting on horizontal surfaces.

The J AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - J/J AS



## FOOT PLATE



## SPINDLE



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE J090 - 12 - 6

TYPE	DIAMETER $\varnothing$ [in]	HEIGHT $B$ [in]	HOLE POSITION $E$ [in]	HOLE DIAMETER $D1$ [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.47	1.26	0.51	70.000	J090
90AS	3.50	0.67	1.26	0.51	40.000	J-AS090
110	4.29	0.47	1.65	0.51	70.000	J110
110AS	4.29	0.67	1.65	0.51	70.000	J-AS110
150	5.87	0.47	2.32	0.63	100.000	J150
150AS	5.87	0.67	2.32	0.63	100.000	J-AS150
180	7.05	0.55	2.91	0.63	120.000	J180
180AS	7.05	0.75	2.91	0.63	120.000	J-AS180

TYPE	6	8	10	12	W1
THREAD [UNC]	[N]	[N]	[N]	[N]	[in]
* 1/2-13	10.000	5.500	3.800	-	3/8
5/8-11	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	60.000	39.000	25.000	5/8
** 1-8	79.400	78.000	62.000	42.000	3/4
** 1 1/4-7	126.000	126.000	122.000	115.000	1
HEIGHT $A$ [in]	6	8	10	12	



Total height  
Maximum nominal load  
Tolerance of height A  
AS

=  $A + B$   
= Lowest value for footplate or spindle  
=  $\pm 0,02$  in  
= Anti-Slip

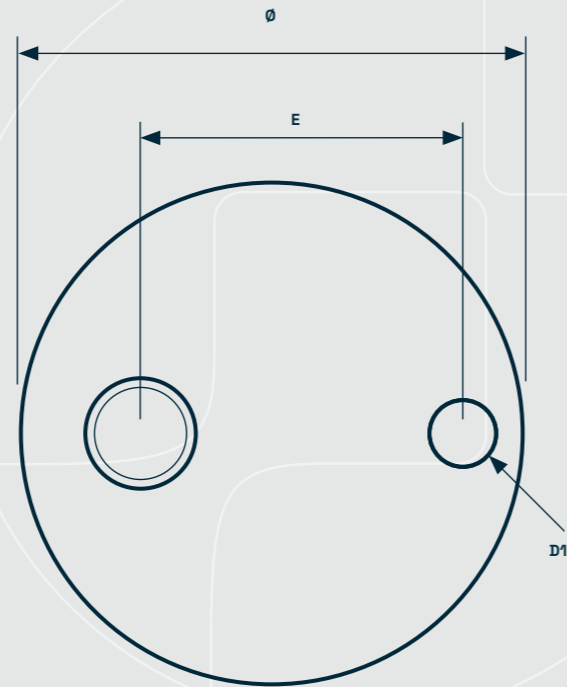
# Solid fully-threaded leveling feet - CF/CF AS

The solid CF leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can easily be fastened to the floor by the decentered fixing hole in the footplate. Bolt, nut and washer can be supplied.

The joined connection between the decentered spindle and the footplate is designed for high load and fixed mounting on horizontal surfaces.

The CF AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - CF/CF AS



## FOOT PLATE



## SPINDLE



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE CF110 - 58 - 6

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
110	4.29	0.47	2.76	0.57	70.000	CF110
110AS	4.29	0.67	2.76	0.57	70.000	CF-AS110
180	7.05	0.47	5.47	0.57	120.000	CF180
* 180AS	7.05	0.67	5.47	0.57	30.000	CF-AS180

TYPE ▶	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	
5/8-11	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	60.000	39.000	25.000	5/8
1-8	79.400	78.000	62.000	42.000	3/4
1 1/4-7	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Nom. load lower as this type is not vulcanized.

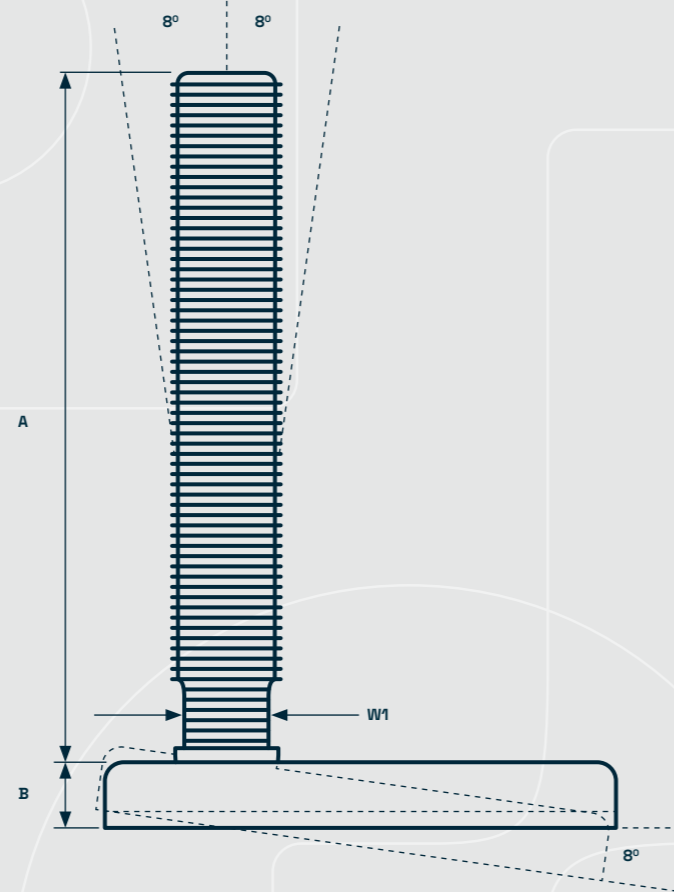
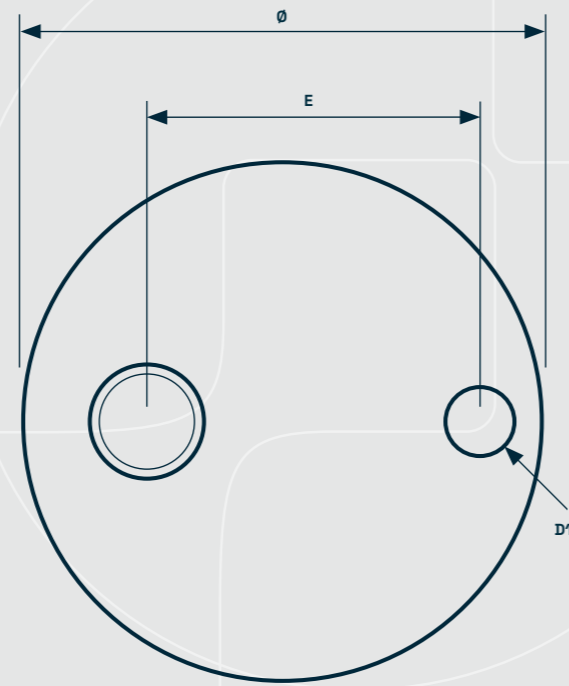
# Solid fully-threaded leveling feet - KCF/KCF AS

The solid KCF leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The foot can easily be fastened to the floor by the decentered fixing hole in the footplate. Bolt, nut and washer can be supplied.

The joined connection between the decentered spindle and the footplate is designed for high load and flexible mounting on horizontal surfaces.

The KCF AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - KCF/KCF AS



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE KCF110 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
110	4.29	0.67	2.76	0.57	100.000	KCF110
110AS	4.29	0.87	2.76	0.57	100.000	KCF110AS

## SPINDLE



TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT ▶ A [in]	3	4	6	8	10	12	



Total height  
Maximum nominal load  
Tolerance of height A  
AS

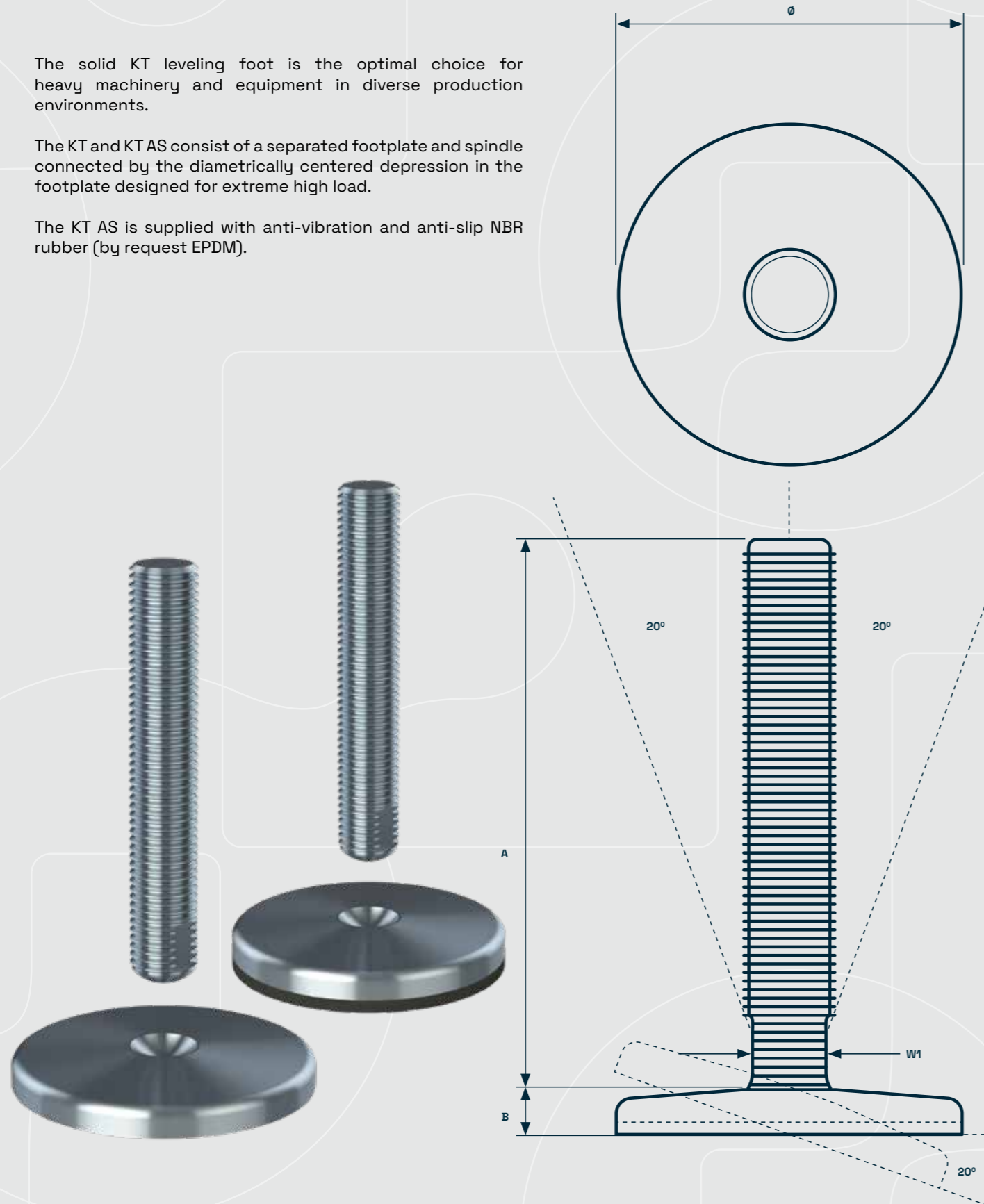
= A + B  
= Lowest value for footplate or spindle  
= +/-0,02 in  
= Anti-Slip

# Solid fully-threaded leveling feet - KT/KT AS

The solid KT leveling foot is the optimal choice for heavy machinery and equipment in diverse production environments.

The KT and KT AS consist of a separated footplate and spindle connected by the diametrically centered depression in the footplate designed for extreme high load.

The KT AS is supplied with anti-vibration and anti-slip NBR rubber (by request EPDM).



# Solid fully-threaded leveling feet - KT/KT AS



PRODUCT CODE      FOOT - THREAD - SPINDLE TYPE

EXAMPLE      KT090 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.35	120.000	KT090
90AS	3.50	0.55	30.000	KT-AS090
110	4.29	0.43	140.000	KT110
110AS	4.29	0.63	30.000	KT-AS110

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
* 7 / 8 - 9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
* 1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	

Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip



\* Footplates 130, 150 and 180 are only supplied with spindles M30, M36 and M42

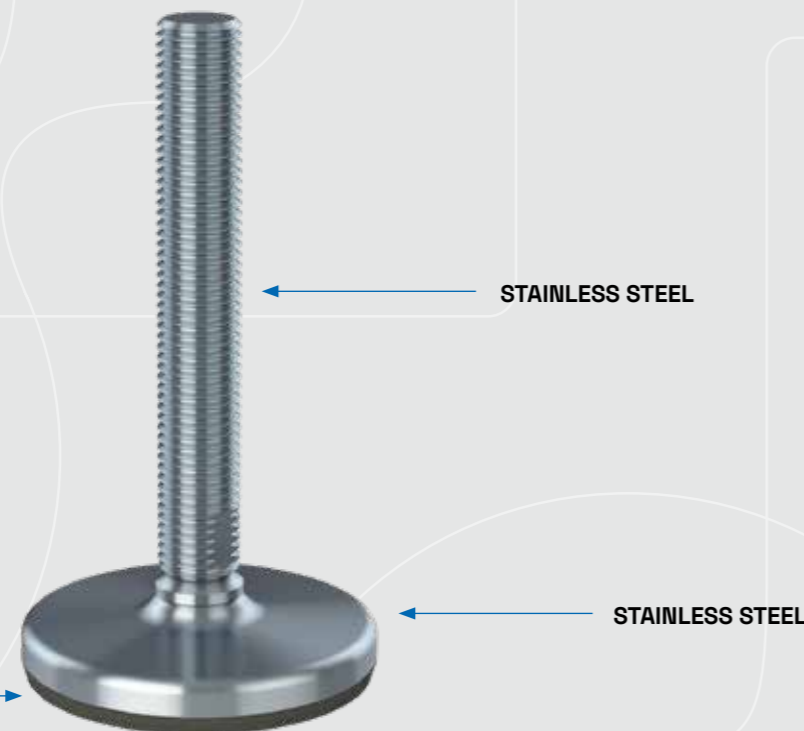
# Declaration of conformity Solid fully-threaded leveling feet



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Solid fully-threaded leveling feet

## The declaration of materials concerns the following Applications

### Application:

Material type:

Compliance:

### Steel components, e.g. spindle, sleeve and cover for foot

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401

EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

Color:

Hardness:

Range of temperature:

Compliance:

REACH:

RoHS 2 & RoHS 3:

ADI free:

Bisphenols:

ODS:

Conflict Materials:

GMP:

Hazardous materials:

Phthalates:

FDA:

### Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Load:

### Anti-slip rubber for HXG AS, HXJ AS, HXGT AS and HXJT AS

NBR (NNF-75)

Black

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020).

Annex XVII (19-11-2019)

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT: AND OF THE COUNCIL.

Does not contain any substances originating from humans or animals.

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

Good manufacturing process in accordance with 2023/2006 EC.

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.

Does not contain phthalates.

Guideline 21 CFR 177.2600

### Anti-slip rubber

NBR By request EPDM

Non-conductive

High to commonly applied cleaning agents

Black

Shore A 80 ± 5

Min -20 °C to Max 110 °C

Low load capacity

# Fully-threaded Plastic leveling feet

The optimal fully-threaded plastic choice  
for low- and middle weight machinery and equipment  
in diverse production environments

They offer value-for-money  
and are available in numerous  
varieties and functions



# Plastic fully-threaded leveling feet

The product group of plastic fully-threaded leveling feet is the optimal choice for low- and middle weight machinery and equipment in diverse production environments. Because of the wide variety and functionality these fully-threaded leveling feet offer great value-for-money and for the majority of the models a hygienic-oriented design because of the self-draining surfaces.

The reliability of the plastic fully-threaded leveling feet has been appreciated by customers world-wide for more than 25 years and the current product portfolio is a result of a continuous innovative approach and market feedback.

## Product Group Features

- Wide variety in footplate design and functionality
- Unlimited customized height variations
- Optional fastening to the floor with sealed fixing holes
- Several different variations (weight load, height-adjustment, flexible mounting parts)
- Fully-threaded plastic leveling feet with self-draining surfaces and limited cleaning effort
- Optional anti-vibration and anti-slip rubber
- Spindle in stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- Footplate in reinforced polyamide
- Bolts, nuts, washers, welding plates and plastic bushings can be supplied

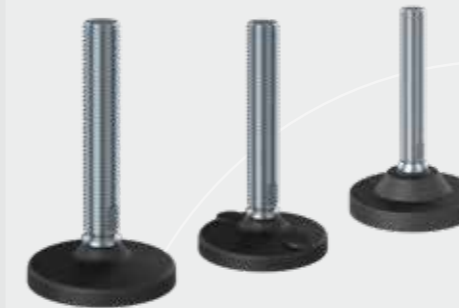


### HP

#### Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Possible fastening to the floor under the watertight plastic cap

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### HPA SERIES

#### Special Features

- Weight load up to 45.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Optional fastening to the floor under the watertight plastic cap
- Optional anti-slip rubber under footplat

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### HPG AS

#### Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Embedded anti-slip rubber under footplate
- Possible fastening to the floor under the watertight plastic cap

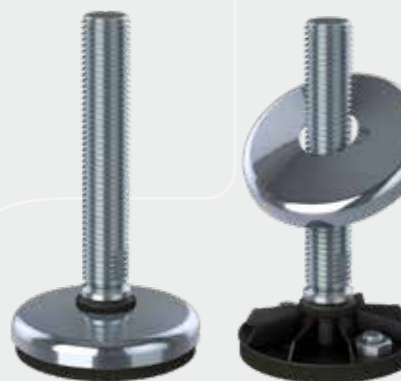
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## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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### HPR AS

#### Special Features

- Weight load up to 22.000 N
- Admits up to 10° slope on floors and equipment
- Hygienic-oriented design due to self-draining surfaces
- Embedded anti-slip rubber under footplate
- Possible fastening to the floor under the watertight stainless steel cap

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# Accessories for plastic fully-threaded leveling feet

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot. In addition to supplying standardized accessories we are also able to supply customized accessories.

Visit our website to learn more  
[us.ngi-global.com/products/leveling-feet/plastic-fully-threaded](https://us.ngi-global.com/products/leveling-feet/plastic-fully-threaded)



## NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

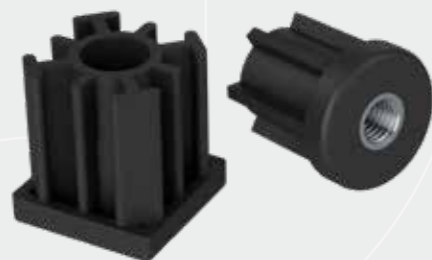
318



## WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

322



## PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

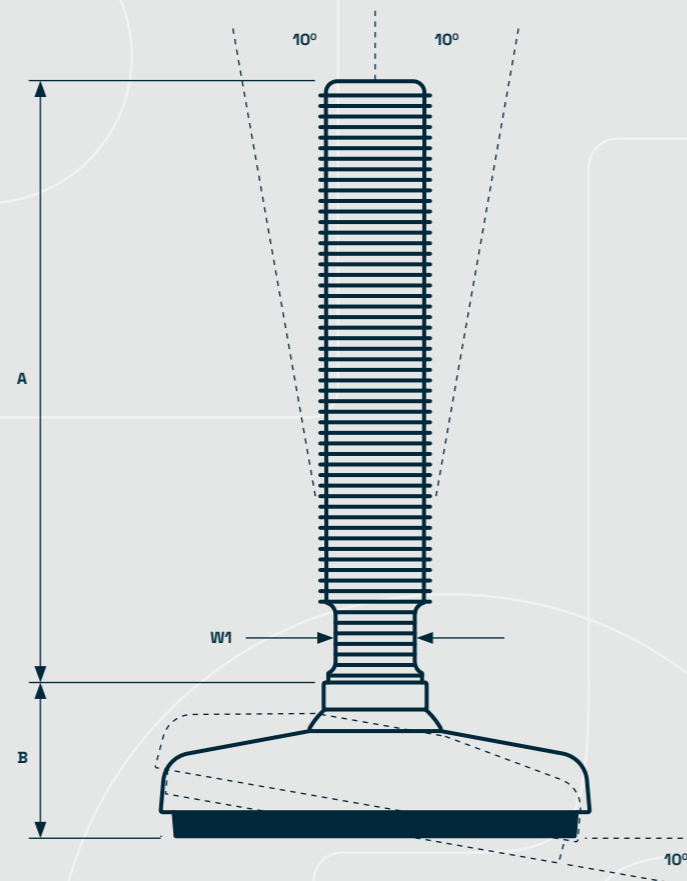
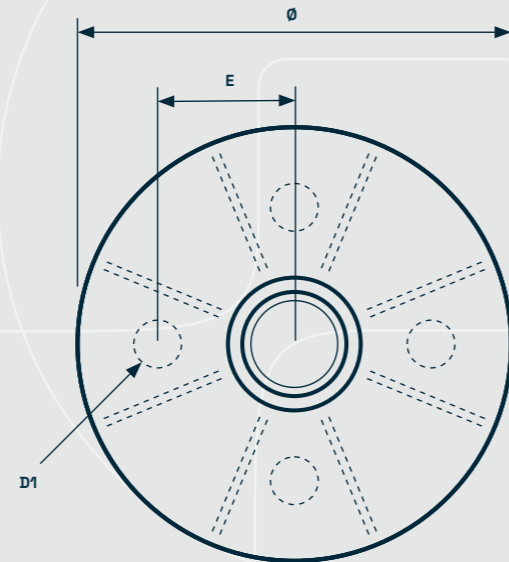
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# Plastic fully-threaded leveling feet - HP

The HP plastic fully-threaded leveling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the leveling foot to the floor by the two pre-drilled fixing holes located under the watertight plastic cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.



# Plastic fully-threaded leveling feet - HP



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HP060 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
*60	2.36	1.23	-	-	15.000	HP060
80	3.15	1.23	1.04	0.33	15.000	HP080
100	3.94	1.41	1.24	0.43	20.000	HP100
120	4.72	1.45	1.57	0.43	22.000	HP120

## SPINDLE



TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
** 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
HEIGHT ▶ A [in]	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in

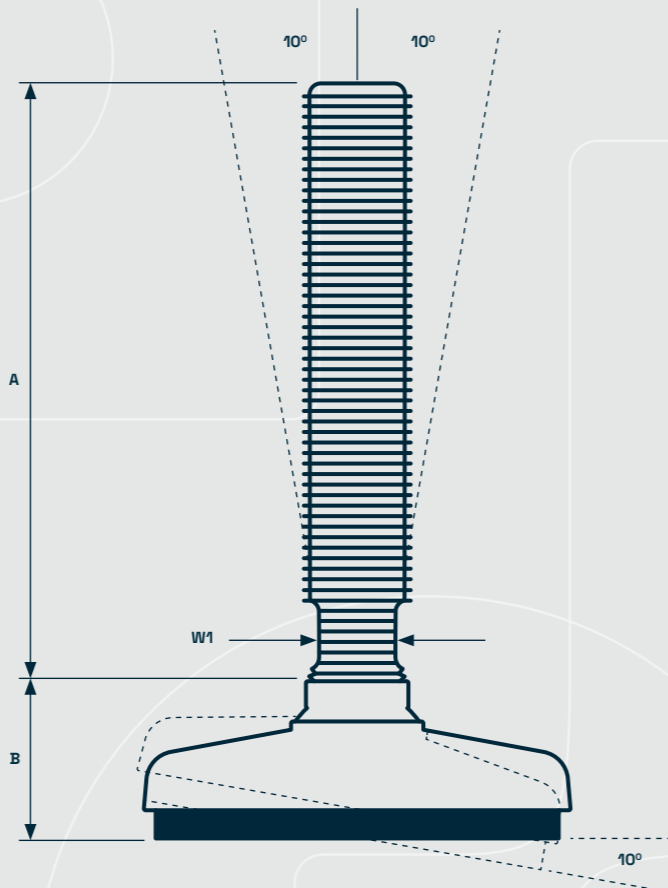
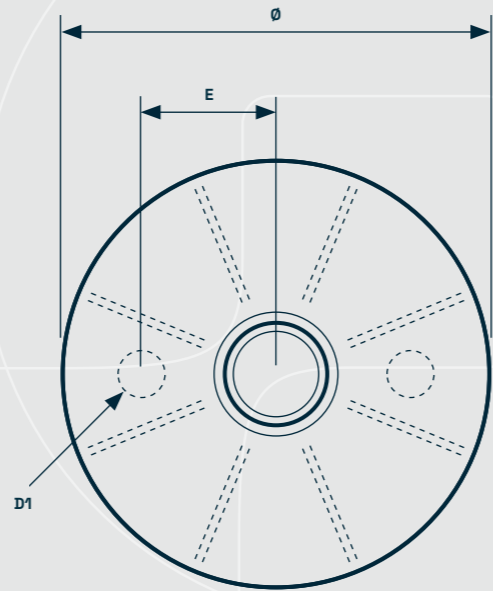
\* Footplate HP060 does not have fixing holes  
 \*\* Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

# Plastic fully-threaded leveling feet - HPG AS

The HPG AS plastic fully-threaded leveling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the leveling foot to the floor by the two pre-drilled fixing holes located under the watertight plastic cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.

Additionally, the foot is equipped with embedded anti-slip rubber underneath the footplate.



# Plastic fully-threaded leveling feet - HPG AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPG-AS060-12-3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
*60AS	2.36	1.28	-	-	15.000	HPG-AS060
80AS	3.15	1.28	1.04	0.33	15.000	HPG-AS080
100AS	3.94	1.45	1.24	0.43	20.000	HPG-AS100
120AS	4.72	1.49	1.57	0.43	22.000	HPG-AS120

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
** 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/- 0,02 in  
 AS = Anti-Slip

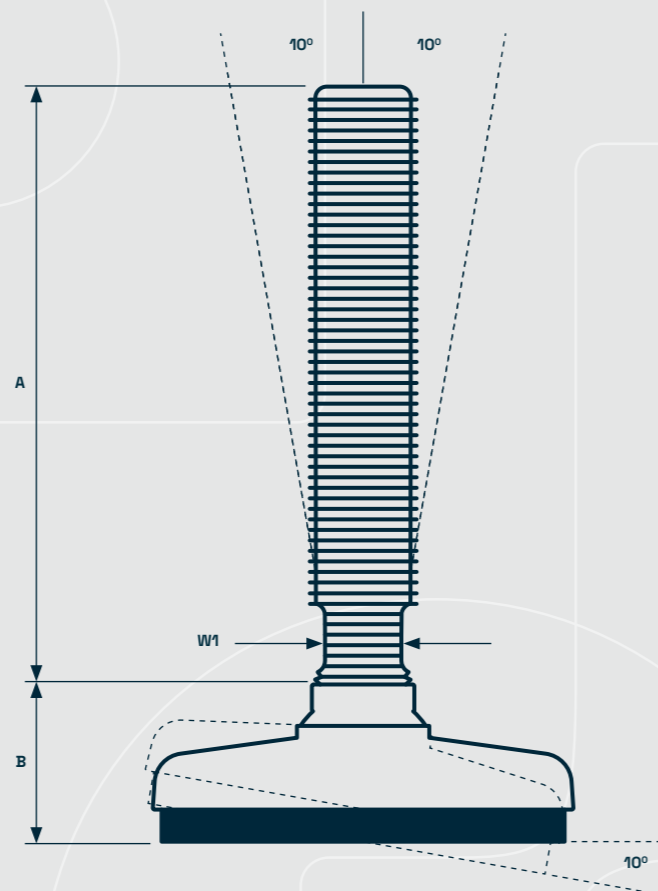
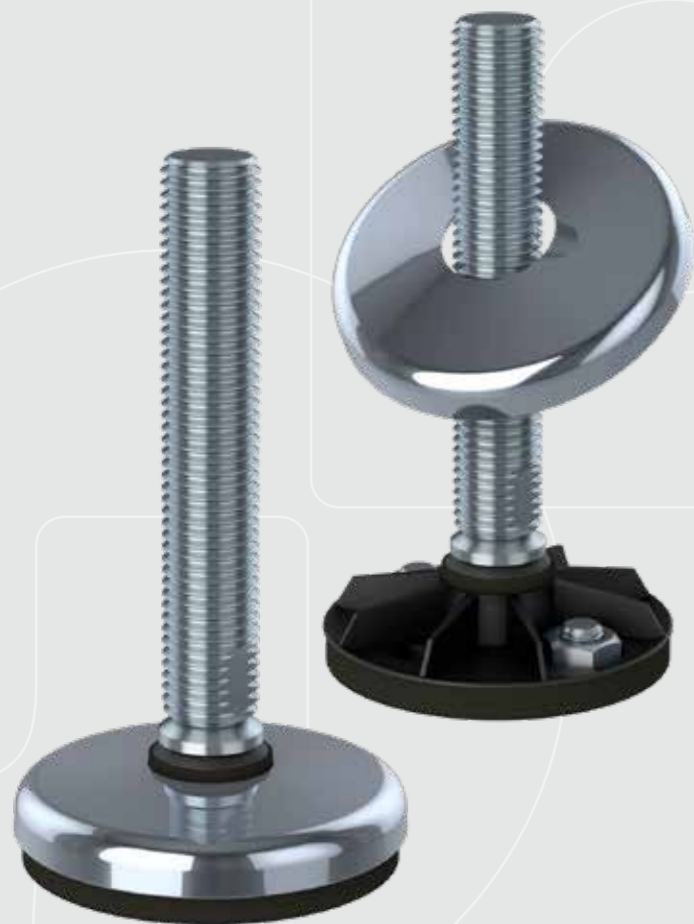
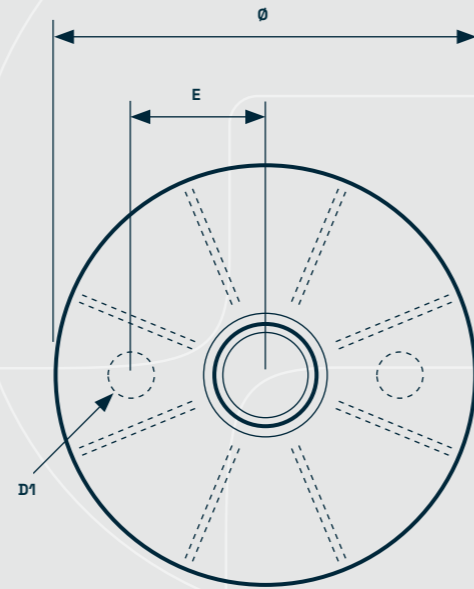
\* Footplate HPG-AS060 does not have fixing holes  
 \*\* Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

# Plastic fully-threaded leveling feet - HPR AS

The HPR AS plastic fully-threaded leveling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

It is possible to fasten the leveling foot to the floor by the two pre-drilled fixing holes located under the watertight stainless steel cap lowering the cleaning effort. Bolts, nuts and washers can be supplied.

Additionally, the foot is equipped with embedded anti-slip rubber underneath the footplate.



# Plastic fully-threaded leveling feet - HPR AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
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EXAMPLE HPR-AS080 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
80AS	3.15	1.28	1.04	0.33	15.000	HPR-AS080
100AS	3.94	1.45	1.24	0.43	20.000	HPR-AS100
120AS	4.72	1.49	1.57	0.43	22.000	HPR-AS120

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
* 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
HEIGHT A [in]	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

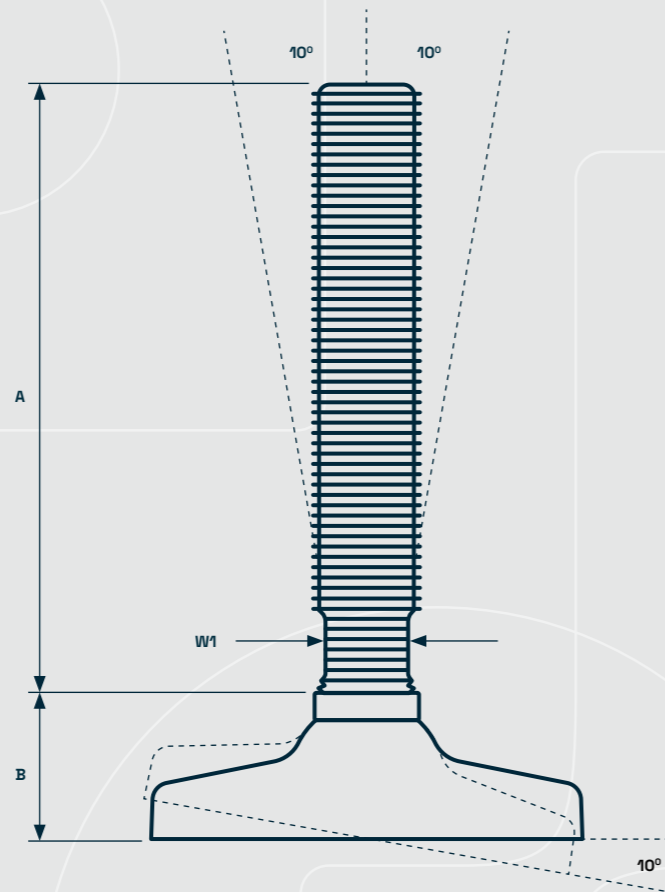
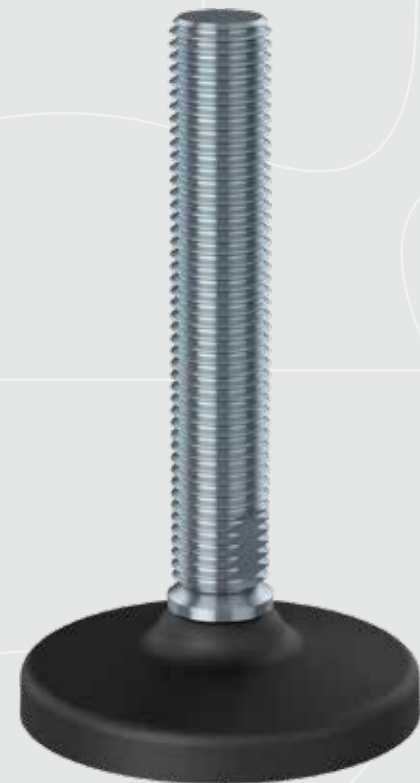
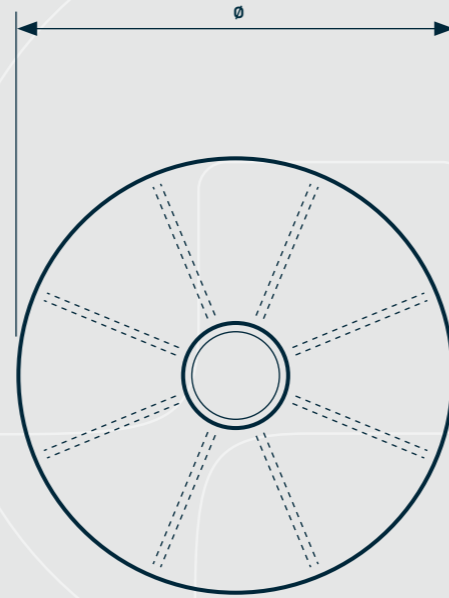
\* Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30 or M36

# Plastic fully-threaded leveling feet - HPA / HPA AS

The HPA and HPA AS plastic fully-threaded leveling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

Additionally, the HPA AS is equipped with embedded anti-slip rubber underneath the footplate.



# Plastic fully-threaded leveling feet - HPA / HPA AS



PRODUCT CODE	FOOT - THREAD - SPINDLE TYPE
EXAMPLE	HPA040 - 38 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
40	1.57	1.09	8.000	HPA040
40AS	1.57	1.11	8.000	HPA-AS040
50	1.97	1.21	9.000	HPA050
50AS	1.97	1.23	9.000	HPA-AS050
60	2.36	1.23	15.000	HPA060
60AS	2.36	1.28	15.000	HPA-AS060
80	3.15	1.21	10.000	HPA080
80AS	3.15	1.23	10.000	HPA-AS080
100	3.94	1.32	15.000	HPA100
100AS	3.94	1.35	15.000	HPA-AS100

## SPINDLE



TYPE ▶ THREAD [UNC]	3 [N]	4 [N]	6 [N]	8 [N]	10 [N]	12 [N]	W1 [in]
* 3/8-6	3.500	3.500	3.100	2.000	1.100	-	5/16
** 1/2-3	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
*** 1 1/4-7	126.000	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* M10 spindle only supplied for footplate HPA-AS040 and HPA-AS050  
 \*\* M30 spindle only supplied for footplate HPA-AS080 and HPA-AS100  
 \*\* Adjust A +7 mm and B -7 mm if footplate is combined with spindle M30

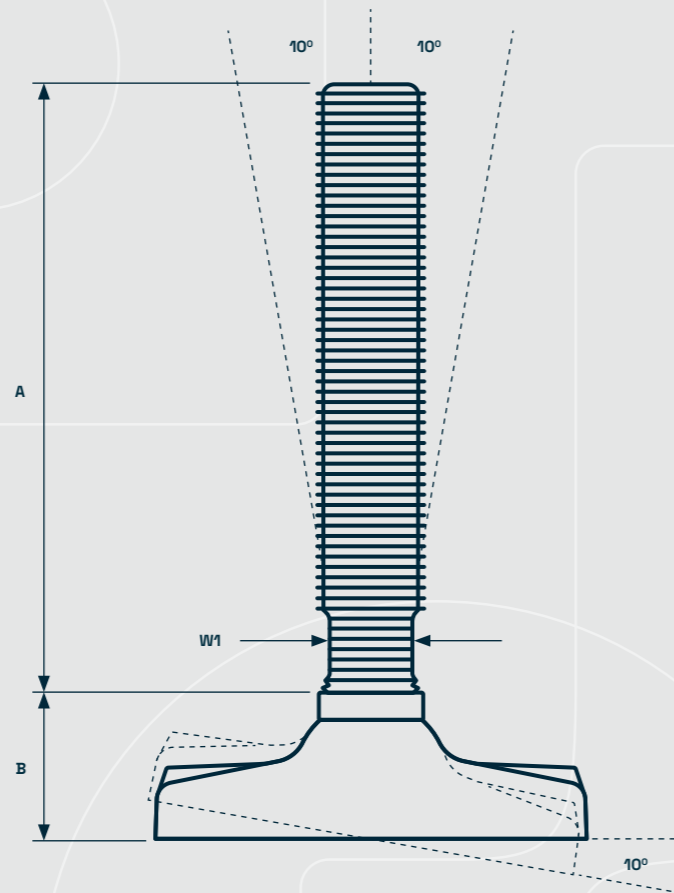
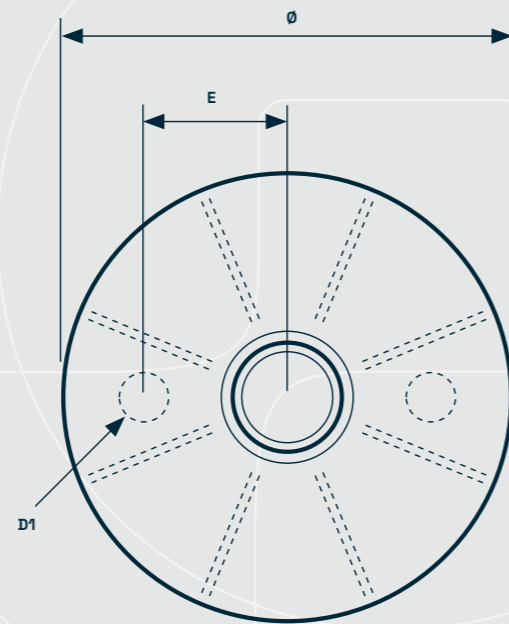
# Plastic fully-threaded leveling feet - HPA FIXING / HPA AS FIXING

The HPA Fixing and HPA AS Fixing plastic fully-threaded leveling foot is the optimal choice for low- and middle weight machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

It is possible to fasten the leveling foot to the floor by the two pre-pressed fixing holes, which are easily pressed out using a screwdriver. Bolts, nuts and washers can be supplied.

Additionally, the HPA AS Fixing is equipped with embedded anti-slip rubber underneath the footplate.



# Plastic fully-threaded leveling feet - HPA FIXING / HPA AS FIXING



PRODUCT CODE      FOOT - THREAD - SPINDLE TYPE

EXAMPLE      HPA-FIX081 - 12 - 3

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
81	3.19	1.21	1.10	0.39	10.000	HPA-FIX081
81AS	3.19	1.23	1.10	0.39	10.000	HPA-FIXAS081
101	3.98	1.32	1.46	0.47	15.000	HPA-FIX101
101AS	3.98	1.35	1.46	0.47	15.000	HPA-FIXAS101

## SPINDLE



TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
* 1/2-13	18.900	18.900	10.000	5.500	3.800	-	3/8
5/8-11	31.000	31.000	25.500	15.000	9.000	6.200	1/2
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	9/16
7/8-9	65.000	65.000	65.000	60.000	39.000	25.000	5/8
1-8	79.400	79.400	79.400	78.000	62.000	42.000	3/4
** 1 1/4-7	126.000	126.000	126.000	126.000	122.000	115.000	1
HEIGHT A [in] ▶	3	4	6	8	10	12	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Adjust A +6 mm and B -6 mm if footplate is combined with spindle M30

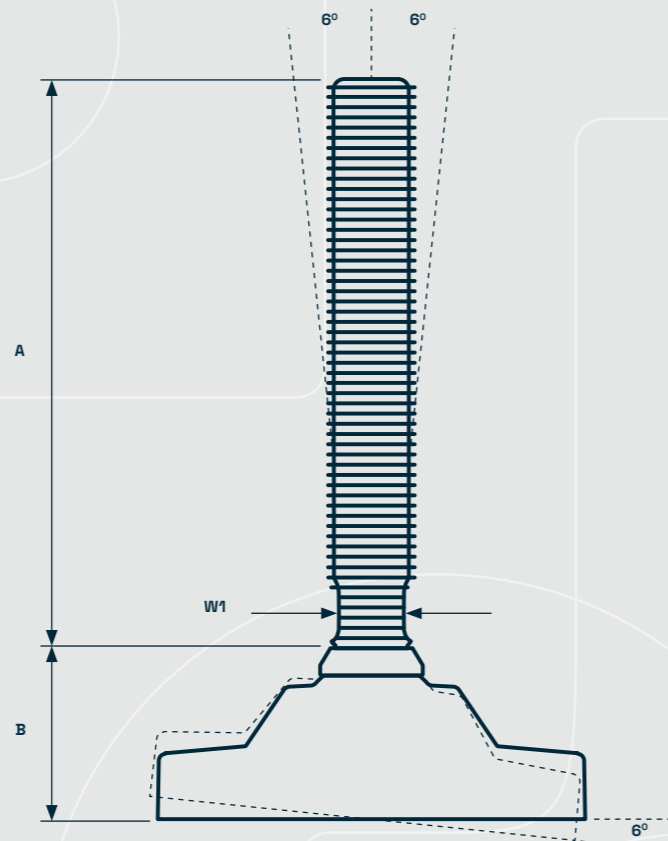
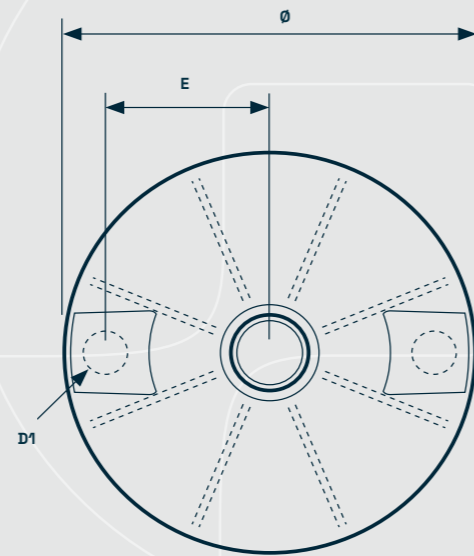
# Plastic fully-threaded leveling feet - HPA125 / HPA125 AS

The strong HPA125 and HPA125 AS plastic fully-threaded leveling foot is the optimal choice for heavier machinery and equipment in diverse production environments.

Lowered cleaning effort is obtained by the design of the self-draining surfaces.

It is possible to fasten the leveling foot to the floor by the two pre-pressed fixing holes, which are easily pressed out using a screwdriver. Bolts, nuts and washers can be supplied.

Additionally, the HPA125 AS is equipped with embedded anti-slip rubber underneath the footplate.



# Plastic fully-threaded leveling feet - HPA125 / HPA125 AS



PRODUCT CODE FOOT - THREAD - SPINDLE TYPE

EXAMPLE HPA125125 - 58 - 4

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
125	4.92	1.97	1.97	0.53	45.000	HPA125
125AS	4.92	1.99	1.97	0.53	45.000	HPA-AS125

## SPINDLE



TYPE ▶	4	6	8	10	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	
5/8-11	31.000	25.500	15.000	9.000	1/2
3/4-10	44.700	44.700	31.000	19.000	9/16
7/8-9	65.000	65.000	60.000	39.000	5/8
1-8	79.400	79.400	78.000	62.000	3/4
* 1 1/4-7	126.000	126.000	126.000	122.000	1
HEIGHT A [in] ▶	4	6	8	10	



Total height = A + B  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of height A = +/-0,02 in  
 AS = Anti-Slip

\* Adjust B -6 mm if footplate is combined with M30 or M36.  
 \*\* Adjust A -5 if footplate is combined with M30 or M36 at length 310mm.

# Declaration of conformity

## Fully-threaded plastic leveling feet



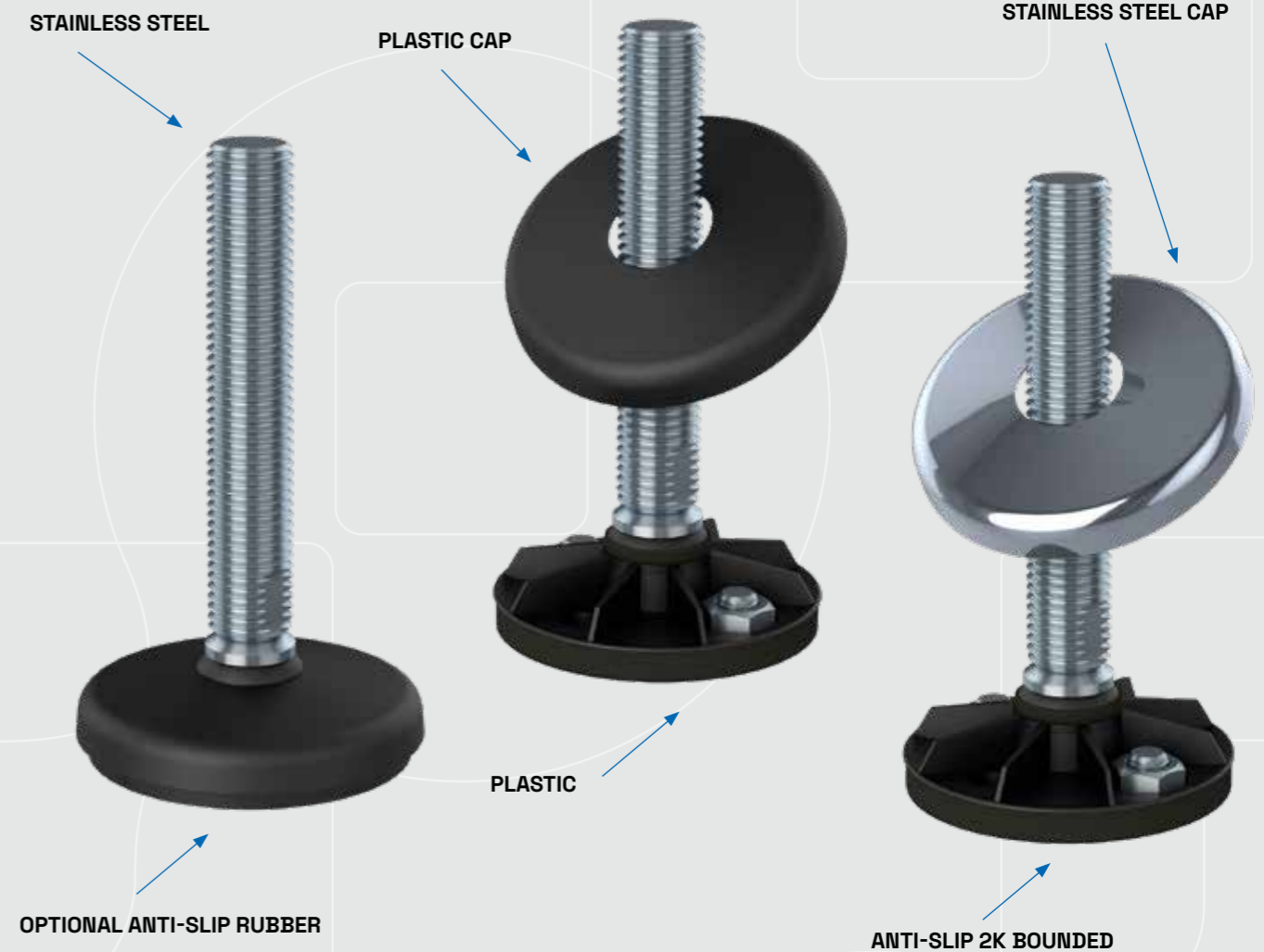
NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.

# Declaration of conformity

## Fully-threaded plastic leveling feet





# Declaration of conformity Fully-threaded plastic leveling feet

## The declaration of materials concerns the following Applications

**Application:** **Steel components, e.g. spindle and cover for foot**  
 Material type: Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301.  
 By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401  
 Compliance: EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.  
 NGI has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.  
 In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

**Application:** **Footbase for NGI A/S's machinefeet and cover for foot**  
 Material type: PA 6 Miramid FP, reinforced.  
 Electrically: Non-conductive.  
 IP Code IP69K: DIN (Deutsches Institut für Normung) 40050-9: Straßenfahrzeuge; IP-Schutzarten; Schutz gegen Fremdkörper, Wasser und Berühren; Elektrische Ausrüstung [Road vehicles; degrees of protection (IP-code); protection against foreign objects, water and impact; electrical equipment]. May 1993. (an English translation of the German original is available from DIN).  
 Chemical resistance: High to commonly applied cleaning agents.  
 Color: Black  
 Flammability: 94 HB  
 Range of temperature: Min -20°C to Max +110°C  
 Max. temperature High thermal resistance for short duration: +150°C  
 Compliance: REACH: In accordance with regulation EC 1907/2006.  
 Do not contain any substances above 0.1% (w/w) from: The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)  
 RoHS 2 & RoHS 3: In accordance with the Directive 2011/65/EC and 2015/863/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.  
 ADI free: Does not contain any substances originating from humans or animals.  
 Bisphenols: Does not contain bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.  
 ODS: Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.  
 Conflict Materials: In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.  
 GMP: Good manufacturing process in accordance with 2023/2006 EC.  
 Hazardous materials: Do not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental Sound Recycling of ships, 2009.  
 Phthalates: Does not contain phthalates.

# Declaration of conformity Fully-threaded plastic leveling feet

## The declaration of materials concerns the following Applications

**Application:** **Plastic Lid**  
 Material type: PPC  
 Electrically: Non-conductive  
 Chemical resistance: High to commonly applied cleaning agents  
 Color: Black  
 Hardness: Rockwell R 85  
 Range of temperature: Min -20 °C to Max 90 °C  
 Load: High load capacity

**Application:** **Anti slip**  
 Material type: NBR By request EPDM  
 Electrically: Non-conductive  
 Chemical resistance: High to commonly applied cleaning agents  
 Color: Black  
 Hardness: Shore A 80 ± 5  
 Range of temperature: Min -20 °C to Max 110 °C  
 Load: Low load capacity

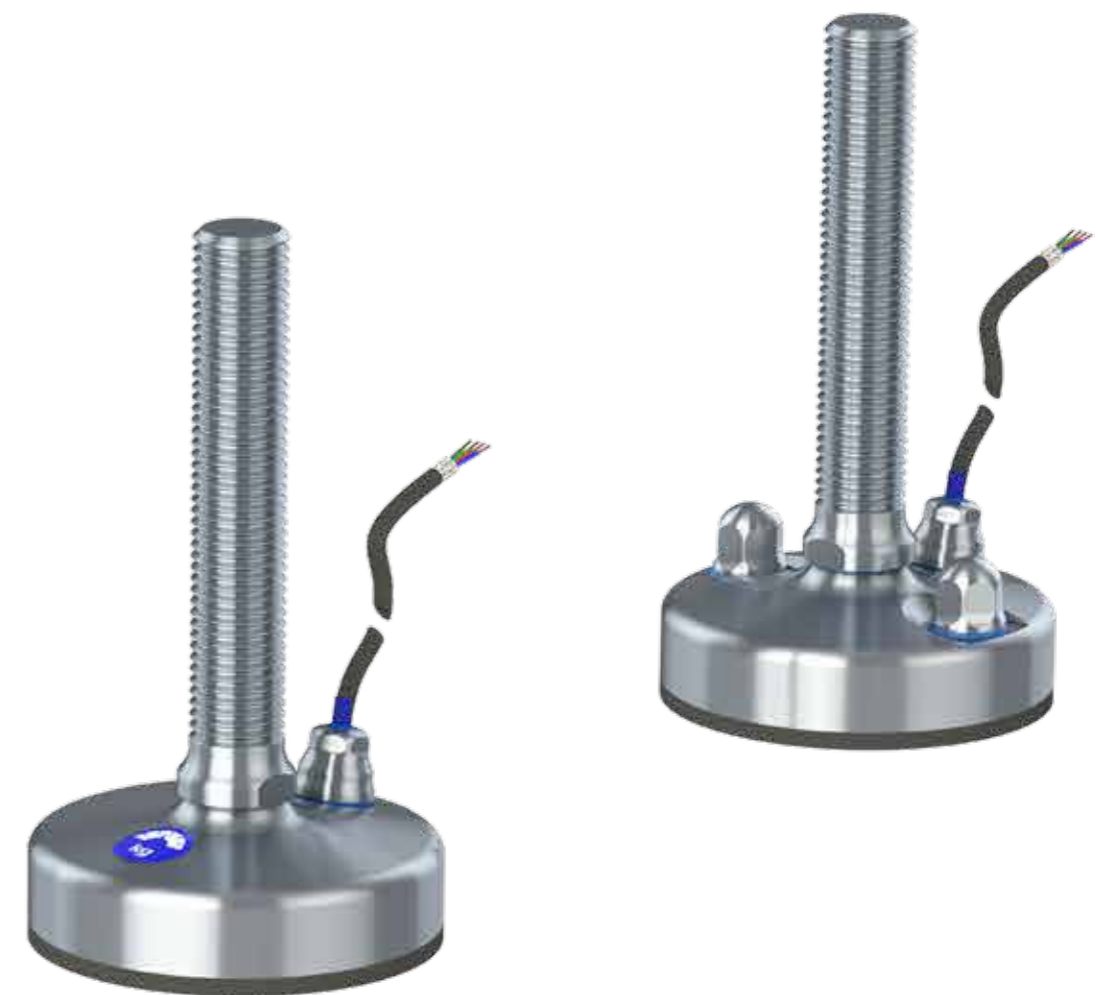
**Application:** **Anti slip 2K Bounded**  
 Material type: TPE  
 Electrically: Non-conductive  
 Chemical resistance: High to commonly applied cleaning agents  
 Color: Black  
 Hardness: Shore A 90 ± 5  
 Range of temperature: Min -50°C to Max +125 °C  
 Load: High load capacity

**Application:** **Sealing ring between steel components for NGI's machine feet.**  
 Material type: Silicon rubber  
 Electrically: Non-conductive  
 Chemical resistance: High to commonly applied cleaning agents  
 Color: RAL 5010 (blue)  
 Hardness: Shore A 60 ± 5  
 Range of temperature: Min -60°C to Max +200 °C  
 Storage: According to ISO 2230  
 Compliance: FDA: Guideline 21 CFR 177.2600  
 RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.  
 GMP: Good manufacturing process in accordance with 2023/2006 EC.

# Fully-threaded Weighing leveling feet

The only weighing leveling feet in the world  
with build in standard weighing cell  
secured, guided and protected inside the feet

The design and patent protected ngi weighing leveling feet is  
the optimal choice for supporting and  
easy weighing of machinery, equipment, tanks and vessels





# Fully-threaded weighing leveling feet

The design and patent protected NGI Weighing leveling feet is the optimal choice for supporting and easy weighing of machinery, equipment, tanks and vessels.

NGI weighing leveling feet are optimized for the PR 6251 PanCake load cell family to guarantee best weighing performance and a very compact construction, unmatched reliability, robustness and stability, which enable trouble-free operation without adjustment, year after year.

## Product Group Features

- Plug n' play height-adjustable compact design
- One-point impact between load cell and spindle ensures direct and friction free transfer of force
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401
- All movable parts are 100% hygienically sealed even if the load on the foot is removed
- All sealing are blue and therefore detectable by scanning systems



## HXW

### Special Features

- Maximum weight load 5 ton
- Spindle sizes 3/4-10, 1-8, 1 1/4-7
- Footplate sizes 3.15 in - 5.91 in
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 5° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate and protects the load cell

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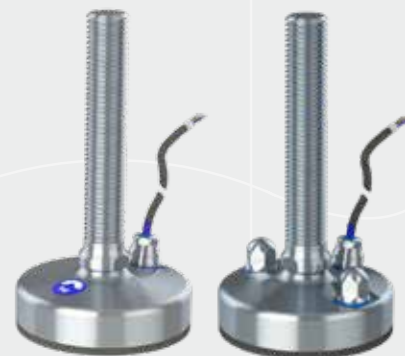


## HXGTW

### Special Features

- Maximum weight load 5 ton
- Spindle sizes 3/4-10, 5/8-11, 1-8, 1 1/4-7
- Footplate sizes 4.10 in - 5.87 in
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Admits up to 10° slope on floors and equipment

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## HXGW + HXJW

### Special Features

- Footplate diameter 4.10 in - 5.87 in
- Hygienic-oriented design due to self-draining surfaces
- Admits up to 5° slope on floor and equipment
- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top
- Available in standardized and customized dimensions
- Optional fixing to the floor

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## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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## HXTW

### Special Features

- Maximum weight load 5 ton
- Spindle sizes 3/4-10, 1-8, 1 1/4-7
- Footplate sizes 3.15 in - 5.91 in
- Hygienic-oriented design due to self-draining surfaces
- The footplate and spindle are two separate parts
- Admits up to 10° slope on floors and equipment
- Vulcanized FDA-approved, anti-vibration, anti-slip rubber blocks out bacteria underneath the footplate and protects the load cell

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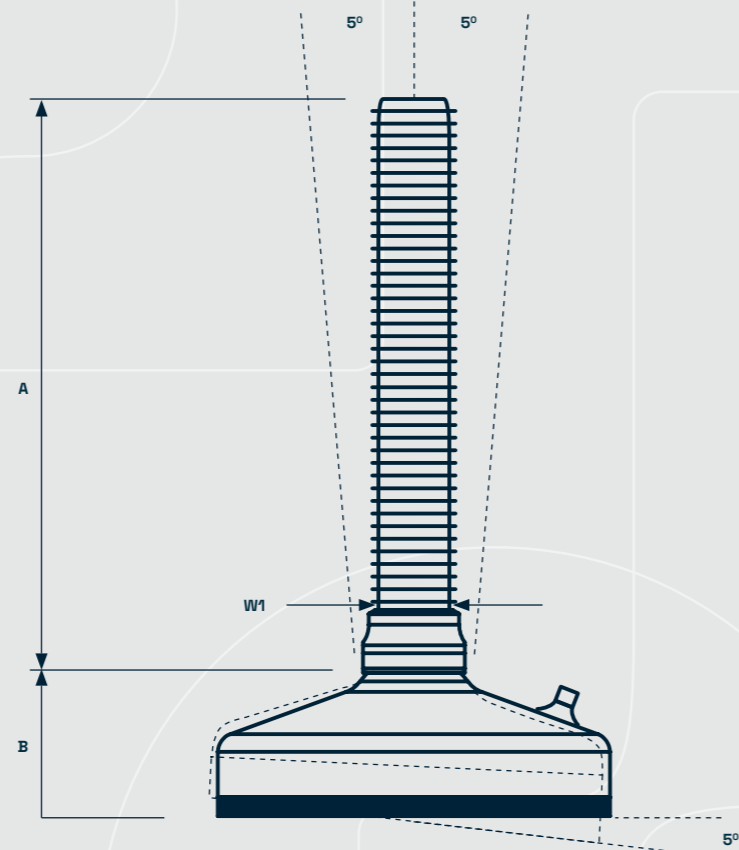
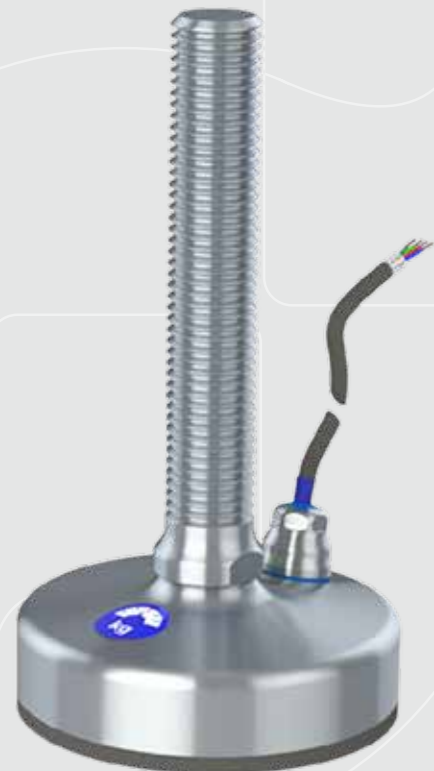
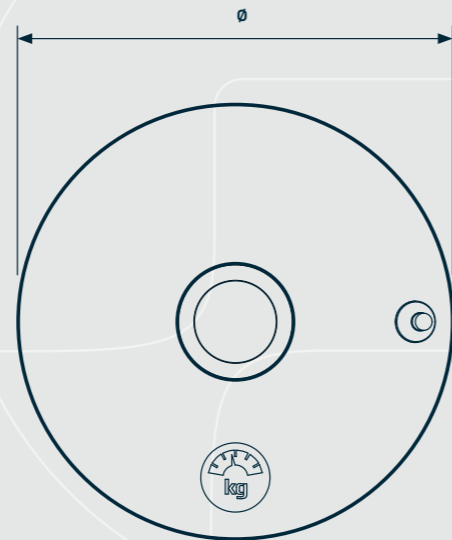
# Fully-threaded weighing leveling feet - HXGW

The design and patent protected HXGW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXGW leveling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5,000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded weighing leveling feet - HXGW



FOOT PLATE

PRODUCT CODE	FOOT	SPINDLE	LOAD CELL
EXAMPLE	HXGW105	- HXLM12103	- PR6211/32D1

TYPE	DIAMETER [in]	HEIGHT [in]	LOAD CELL NOM. LOAD [KG]	ITEM CODE
105	4.10	1.54	30/50/100/200/300	HXGW105
150	5.87	1.73	500/1000/2000/3000/5000	HXGW150



SPINDLE

TYPE	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	1-1/16
1-8	-	79.400	79.400	78.000	62.000	42.000	1-1/16
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1-1/16
HEIGHT A [in]	3	4	6	8	10	12	



LOAD CELL  
MIN. THREAD [OUTPUT]  
2mV/V  
4-20mA

	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L	
					PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA	



Maximum nominal load  
Tolerance of total height = +/-0,02 in

= Lowest value for load cell or spindle  
= +/-0,02 in

# Fully-threaded weighing leveling feet - HXJW

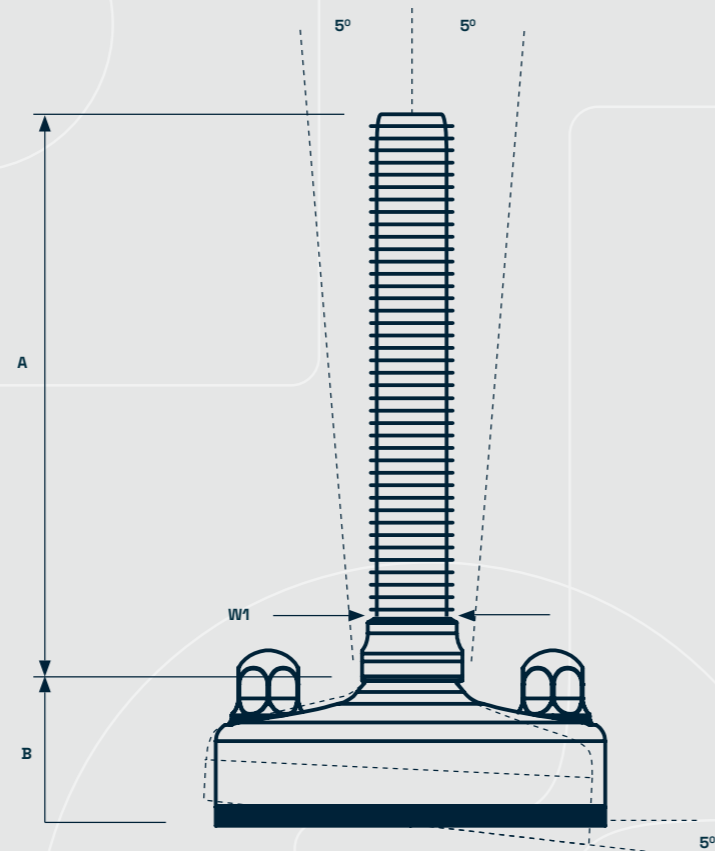
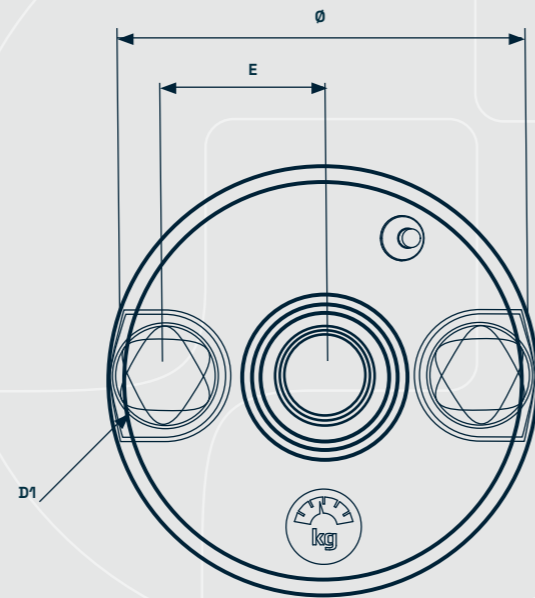
The design and patent protected HXJW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXJW is designed to be fastened to the floor by the two fixing holes in the footplate.

The HXJW leveling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded weighing leveling feet - HXJW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	-	SPINDLE	-	LOAD CELL
EXAMPLE	XHJW105 - HXLM12103 - PR6211/32D1				

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	HOLE POSITION E [in]	HOLE DIAMETER D1 [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	4.10	1.54	1.59	0.51	30/50/100/200/300	HXJW105
150	5.87	1.73	2.28	0.51	500/1000/2000/3000/5000	HXJW150

TYPE	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	1-1/16
1-8	-	79.400	79.400	78.000	62.000	42.000	1-1/16
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1-1/16
HEIGHT A [in]	3	4	6	8	10	12	

LOAD CELL  
MIN. THREAD [OUTPUT]  
2mV/V  
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load  
Tolerance of total height

= Lowest value for load cell or spindle  
= +/-0,02 in

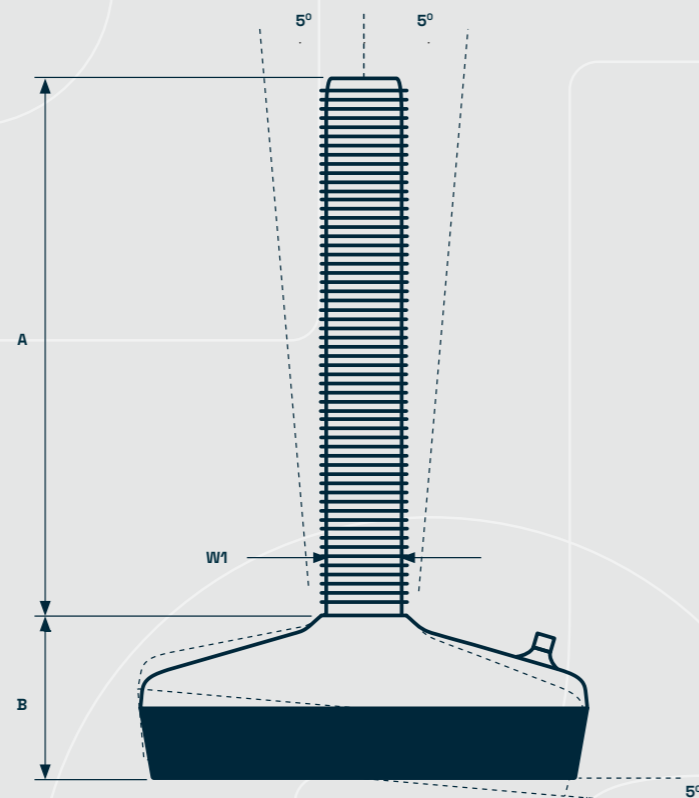
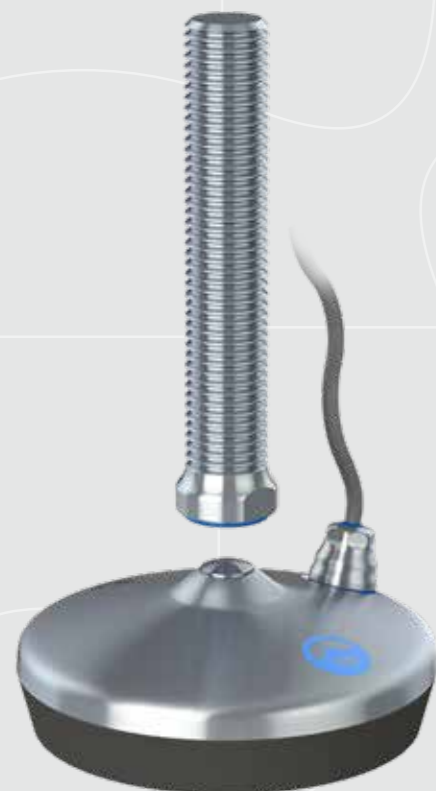
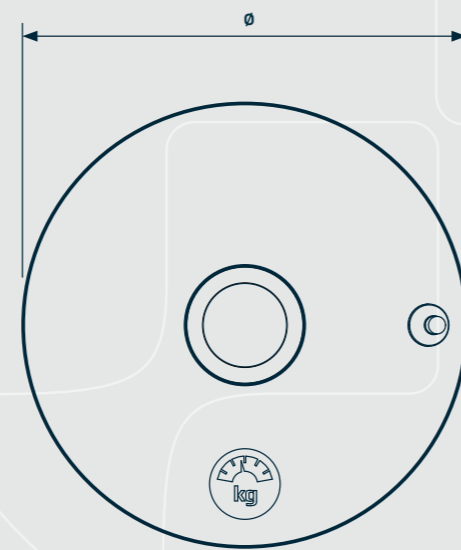
# Fully-threaded weighing leveling feet - HXTW

The design and patent protected HXTW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. Additionally, the leveling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded weighing leveling feet - HXTW



FOOT PLATE



SPINDLE



PRODUCT CODE	FOOT	SPINDLE	LOAD CELL
EXAMPLE	HXTW105	HXTL104	PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	3.15	1.55	30/50/100/200/300	HXTW080
105	4.13	1.57	30/50/100/200/300	HXTW105
125	4.92	1.77	500/1000/2000/3000/5000	HXTW250
150	5.91	1.81	500/1000/2000/3000/5000	HXTW250

TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	[in]
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	1-1/16
5/8-11	-	65.000	65.000	60.000	39.000	25.000	1-1/16
1-8	-	79.400	79.400	78.000	62.000	42.000	1-1/16
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1-1/16
HEIGHT A [in]	3	4	6	8	10	12	

LOAD CELL  
MIN. THREAD [OUTPUT]  
2mV/V  
4-20mA

30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load = Lowest value for load cell or spindle  
Tolerance of total height = +/-0,02 in

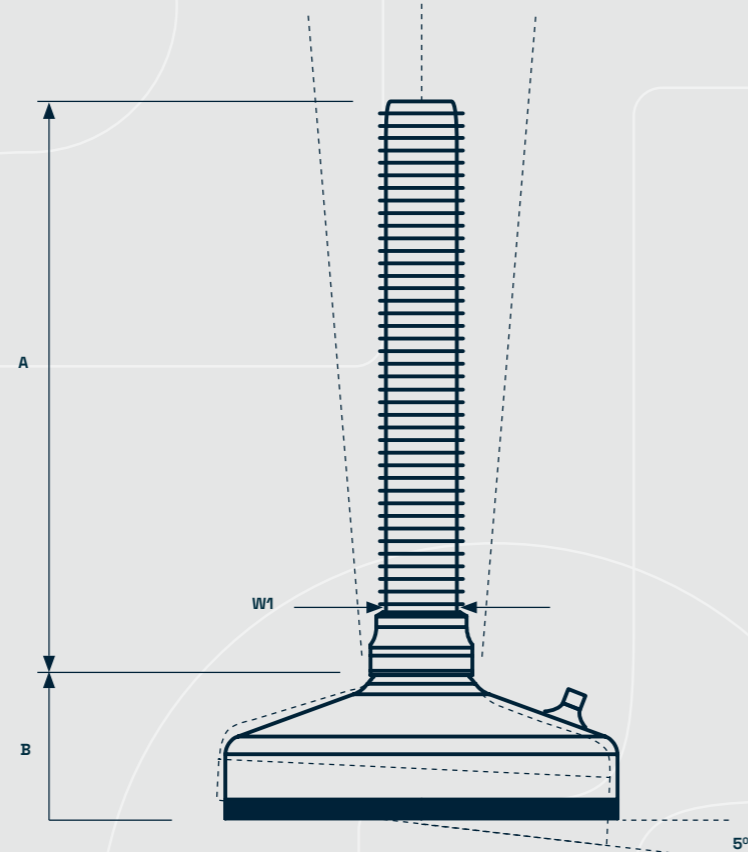
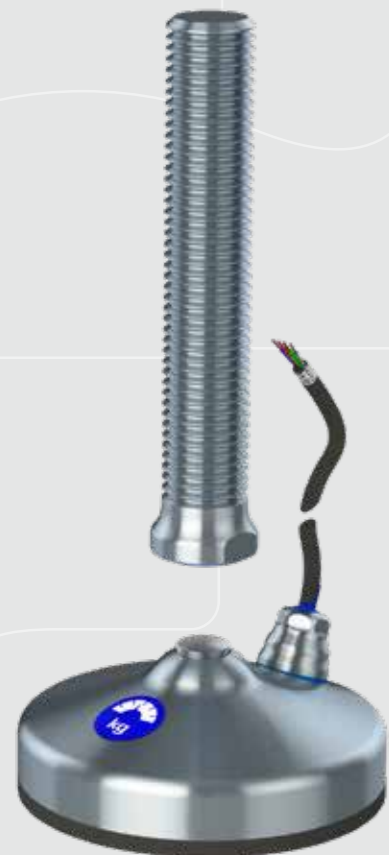
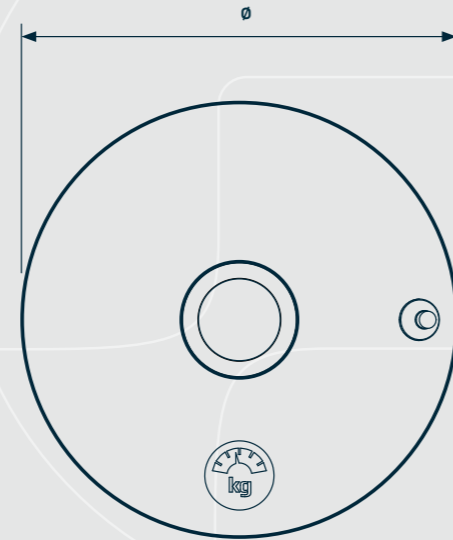
# Fully-threaded weighing leveling feet - HXGTW

The design and patent protected HXGTW weighing leveling foot is the optimal choice for supporting and weighing machinery, equipment, tanks and vessels. The load cell is secured, guided and protected inside the foot.

- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The HXGTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. The HXGTW leveling foot is hygienically sealed to the floor by rubber sealing which blocks out bacteria underneath the footplate and protects the load cell.

- Maintenance free and height-adjustable compact design
- Simple and fast installation - no mounting kit needed
- The different load cells cover a span of 30 kg to 5.000 kg
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded weighing leveling feet - HXGTW



FOOT PLATE



SPINDLE



PRODUCT CODE      FOOT - SPINDLE - LOAD CELL  
 EXAMPLE      HXGTW105 - HXTL104 - PR6211/32D1

TYPE	DIAMETER Ø [in]	HEIGHT B [in]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	4.10	1.54	30/50/100/200/300	HXGTW105
150	5.87	1.73	500/1000/2000/3000/5000	HXGTW150

TYPE ▶	3	4	6	8	10	12	W1 [in]
THREAD [UNC]	[N]	[N]	[N]	[N]	[N]	[N]	
3/4-10	44.700	44.700	44.700	31.000	19.000	13.500	1-1/16
5/8-11	-	65.000	65.000	60.000	39.000	25.000	1-1/16
1-8	-	79.400	79.400	78.000	62.000	42.000	1-1/16
* 1 1/4-7	-	126.000	126.000	126.000	122.000	115.000	1-1/16
HEIGHT ▶ A [in]	3	4	6	8	10	12	

LOAD CELL MIN. THREAD [OUTPUT]	30 KG	50 KG	100 KG M16	200 KG	300 KG	500 KG M24	1.000 KG M24	2.000 KG M30	3.000 KG M30	5.000 KG M30
2mV/V	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
4-20mA	-	-	-	-	-	PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA



Maximum nominal load Tolerance of total height = Lowest value for load cell or spindle = +/-0,02 in



# Declaration of conformity Weighing leveling feet

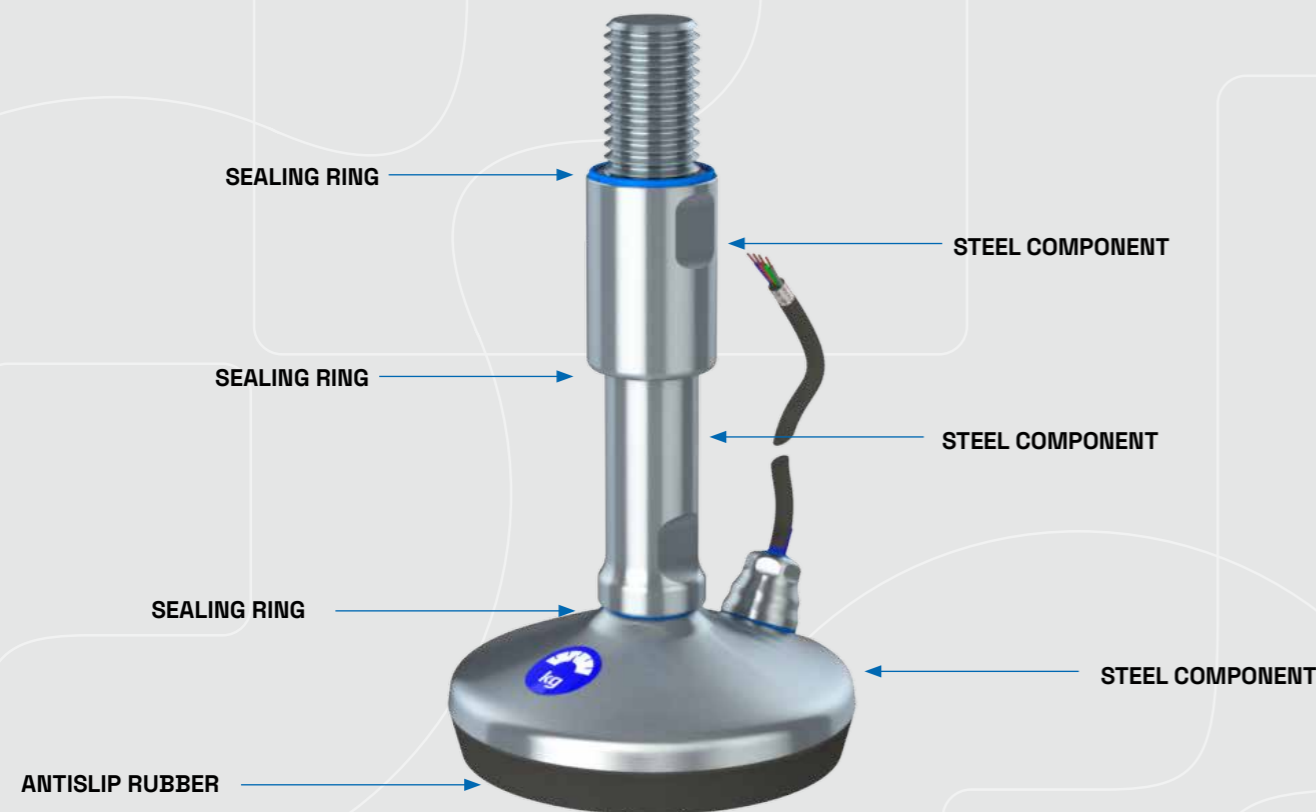


NGI A/S fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions/amendments to these directives and will design our products accordingly. This ensures that products from NGI A/S are always in compliance with currently valid requirements.

Our type of products is not covered by the scope of application of the EC directive on machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive on machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, hereby declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industry.

Furthermore, we declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Weighing leveling feet

## Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from Stainless steel, AISI 304/A2 or by request Stainless steel, AISI 316/A4 and are corrosion resistant under the specified conditions of use including those of cleaning.

The elastomeric components are constructed from FDA approved NBR and silicone material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 pm Ra. All elastomeric components and sealing washers are left as molded with no hand trimming and all surfaces are considered smooth enough to ensure that cleaning is easy.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Sealing designs permit access for easy cleaning with no inaccessible pockets or crevices.

There are no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish such that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

## Drainability and Installation

The units are designed to be self-draining and contain no horizontal ledges.

Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A and EHEDG design criteria, when the product is certified.

The 3-A Sanitary Standard 88-00 requires that when machine leveling feet or supports are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of not less than 4.0 in. (102 mm) if the equipment outlines an area in which no point is more than 12.5 in. (318 mm) from its nearest edge. If the equipment outlines an area in which any point is more than 12.5 in. (318mm) from its nearest edge the clearance shall be at least 6 in. (152mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300mm for easy cleaning and inspection.

When fasteners are required, only domed head screws and dome headed nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the machine feet.

# Declaration of conformity Weighing leveling feet

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

## Maintenance and Cleaning

Foot bases can be sealed to the floor if required. The instructions make recommendations not to span over floor imperfections or grout lines without the addition of proper sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

## Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

## Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery – Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

Similar NGI designs meets the criteria for Hygienic Equipment Class I for components situated in the non-food area and are accessible for easy cleaning without dismantling.

The weighing leveling feet design is according to 3-A Sanitary Standard for Machine Leveling Feet and Supports.

Certified according to USDA Guidelines "Dairy Equipment and NSF ANSI 3-A 14159-1-2014" for the sanitary design and fabrication.

## EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food

# Declaration of conformity Weighing leveling feet

## The declaration of materials concerns the following Applications

### Application:

Material type:

Compliance:

### STEEL COMPONENT

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

Color:

Hardness:

Range of temperature:

Load:

### Vulcanized antislip rubber foot base (for 0-5 ton)

NBR (NNF-75)

Black

72 ± 3 Shore A DIN 53 505

Min -35°C to Max +110°C

Low load capacity

Compliance:

REACH:

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020). Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2002/95/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 JANUARY.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer

Materials:

Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

### Application:

Material type:

Electrically:

Chemical resistance:

Color:

Range of temperature:

Storage:

Compliance:

### Sealing ring

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

Hardness: Shore A 60 ± 5

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

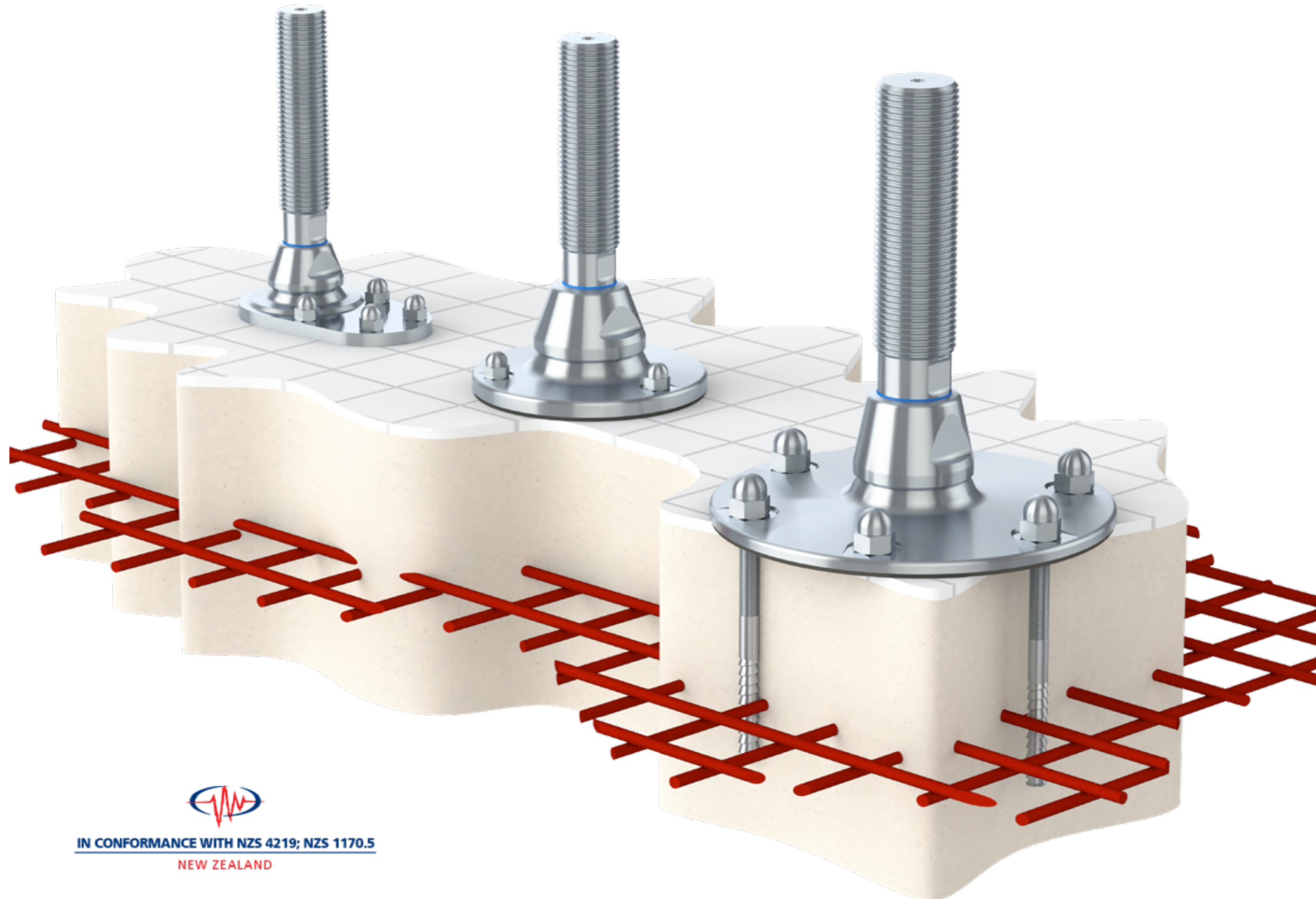
RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

# Fully-threaded Seismic leveling feet

The only seismic leveling feet in the world designed and  
calculated according to the  
international new zealand seismic standard

The NGI seismic foot is capable of withstanding earthquakes  
due to its ability to withstand combinations of vertical and  
horizontal loads



IN CONFORMANCE WITH NZS 4219; NZS 1170.5  
NEW ZEALAND



# Fully-threaded seismic leveling feet

Our seismic leveling foot has been developed and tested using the Finite Element Method (FEA) and is compliant with the governmental regulations of California and New Zealand - (NZS 4219:2009).

Our seismic foot is capable of withstanding earthquakes due to its ability to withstand combinations of vertical and horizontal loads. The NGI seismic product configurator combines earthquake risk data in the geographic area with data about your specific equipment. The result of this detailed analysis will help you select the optimal solution in terms of safety and minimizing the risk of damage to your machinery and equipment caused by earthquakes.

## Product Group Features

- Simple and fast installation with height-adjustable compact design
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Seismic anchors chosen and approved by our experienced partner Hilti
- Optional certified hygienic nuts from NGI
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



IN CONFORMANCE WITH NZS 4219; NZS 1170.5  
NEW ZEALAND



## HXJE (S)

### Special Features

- Spindle sizes M30, M36, M42, M48 & M56 mm
- Available in two standard lengths per diameter size
- Circular arrangement of anchors for best seismic performance
- Sealed to the floor by rubber sealing

248



## HXJCFE (L)

### Special Features

- Spindle sizes M56, M64, M80 & M90 mm
- Anchors decentered at one side of the spindle
- Available in two standard lengths per diameter size
- Not sealed to the floor

254



## HXJE (L)

### Special Features

- Spindle sizes M56, M64, M72, M80 & M90 mm
- Available in two standard lengths per diameter size
- Circular arrangement of anchors for best seismic performance
- Sealed to the floor by rubber sealing

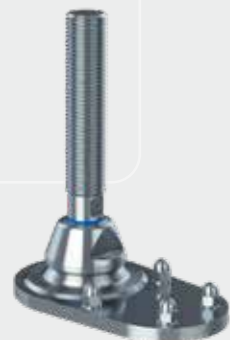
250



## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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## HXJCFE (S)

### Special Features

- Spindle sizes M30, M36, M42, M48 & M56 mm
- Anchors decentered at one side of the spindle
- Available in two standard lengths per diameter size
- Not sealed to the floor

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# Accessories for seismic leveling feet

Installing seismic leveling feet requires several tools and accessories.

NGI has teamed up with HILTI, the specialist for seismic anchoring, to offer a complete seismic installation kit for your seismic project. NGI is able to deliver all necessary accessories which ensures a quick and easy installation of the seismic leveling feet. It is important to use seismic approved accessories when fastening seismic feet. If not correctly installed it will meet neither 3A, USDA or EHEDG hygienic demands nor the seismic load specifications.



## DOME HEADED NUTS & WASHERS

### Special Features

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available

320



## ANCHORS

### Special Features

- Stainless steel A4
- PROFIS software
- Base materials: concrete (cracked), concrete (uncracked), masonry (solid)

334



## NGI WRENCHES

### Special Features

XHJSE machine feet need three different wrenches for installation. NGI wrenches are laser cut and designed to fit NGI machine feet.

330



## HILTI TOOLS

### Special Features

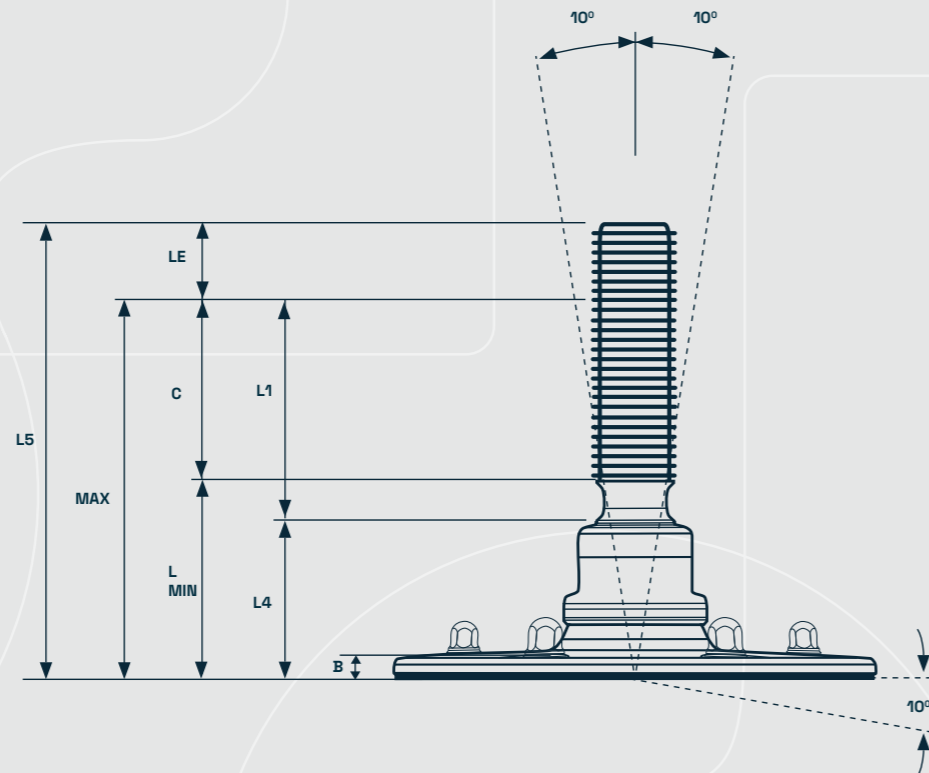
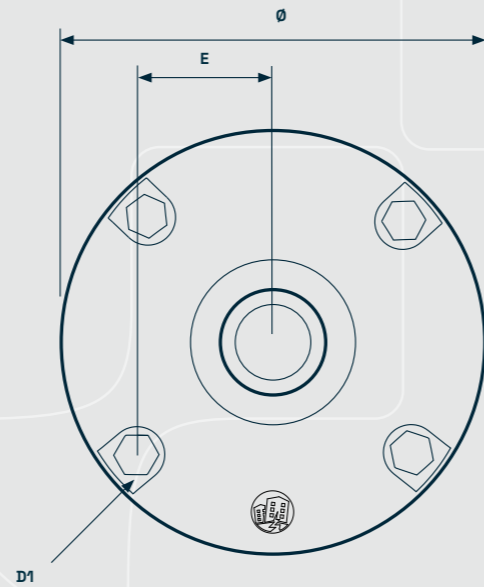
Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full-scale system testing.

332

# Fully-threaded seismic leveling feet - HXJE (S)

The design and patent protected seismic HXJE (S) leveling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long leveling range.

- Simple and fast installation with height-adjustable compact design
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



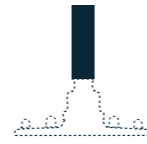
# Fully-threaded seismic leveling feet - HXJE (S)



## FOOT PLATE



## SPINDLE



PRODUCT CODE FOOT - SPINDLE

EXAMPLE HXJE150(S)-HXE30150

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
150	149	20	3	M10x160	60	28000	HXJE150(S)
200	199	20	4	M12x155	80	38000	HXJE200(S)
250	249	20	4	M16x205	101	61.000	HXJE250(S)
300	299	20	6	M20x250	121	80000	HXJE300(S)

THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	116	77	228	105	60.000	2100	HXE(S)30150
M30	178	77	288	105	60.000	1300	HXE(S)30210
M36	114	77	221	105	96.000	3500	HXE(S)36150
M36	179	77	288	105	96.000	2200	HXE(S)36210
M42	118	82	233	110	140.000	4900	HXE(S)42150
M42	179	82	298	110	140.000	3200	HXE(S)42210
M48	143	82	283	120	140.000	6900	HXE(S)48200
M48	203	82	343	120	140.000	4800	HXE(S)48260
M56	138	82	278	120	140.000	13100	HXE(S)56200
M56	203	82	343	120	140.000	8900	HXE(S)56260

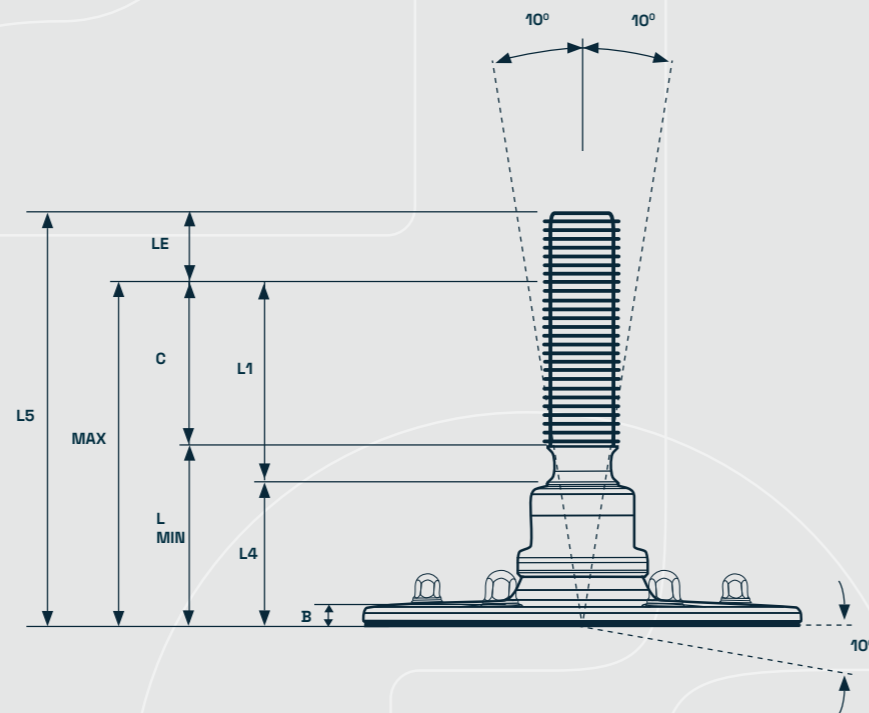
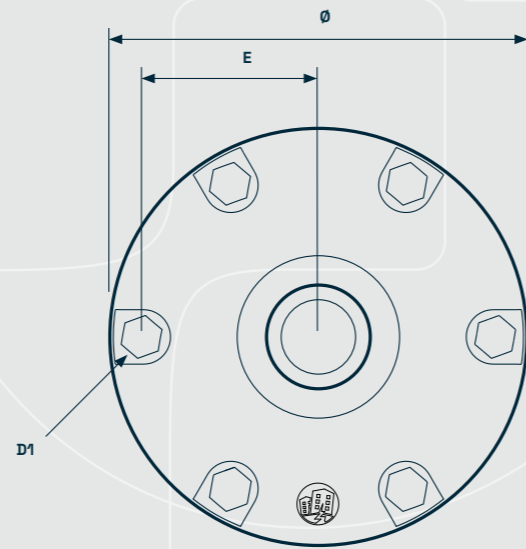


\*L MIN is calculated without use of nut on spindle

# Fully-threaded seismic leveling feet - HXJE (L)

The design and patent protected seismic HXJE (L) leveling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long leveling range.

- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded seismic leveling feet - HXJE (L)



PRODUCT CODE

FOOT - SPINDLE

EXAMPLE

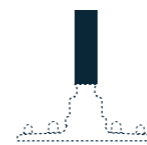
HXJE300(L)-HXE80250

## FOOT PLATE



TYPE	DIAMETER $\varnothing$ [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
250	249	20	3	M16x240	101	63000	HXJE250(L)
300	299	20	4	M20x250	121	82000	HXJE300(L)
350	349	20	6	M20x250	142	90.000	HXJE350(L)
400	399	20	6	M24x330	166	126000	HXJE400(L)

## SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD COMPRESSION [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	138	118	314	156	188.000	11800	HXE(L)56200
M56	203	118	379	156	188.000	8000	HXE(L)56260
M64	143	118	319	156	236.000	17800	HXE(L)64200
M64	203	118	379	156	236.000	12500	HXE(L)64260
M72	166	129	380	170	327.000	22200	HXE(L)72250
M72	226	129	438	170	327.000	16300	HXE(L)72310
M80	166	129	380	170	432.000	30800	HXE(L)80250
M80	226	129	438	170	432.000	22600	HXE(L)80310
M90	166	129	380	170	432.000	50500	HXE(L)90250
M90	226	129	438	170	432.000	37100	HXE(L)90310

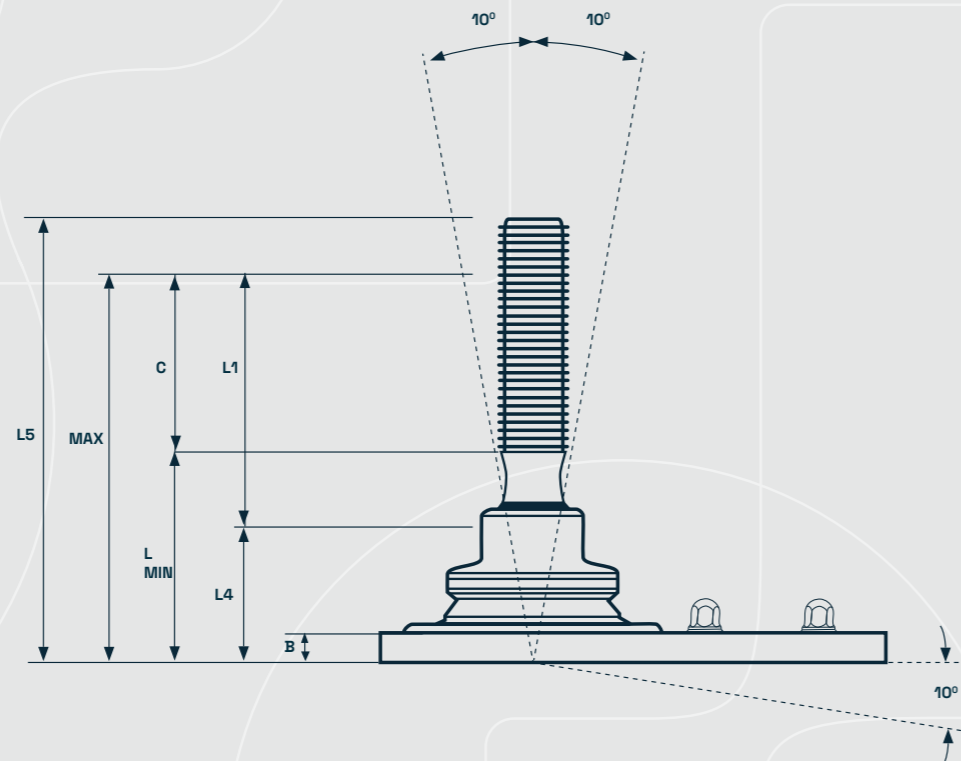
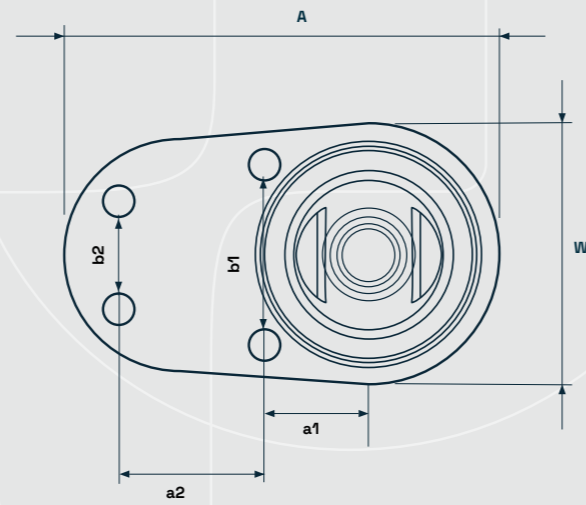


\*L MIN is calculated without use of nut on spindle

# Fully-threaded seismic leveling feet - HXJCFE (S)

The design and patent protected seismic HXJCFE (S) leveling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long leveling range.

- Anchors decentered at one side of the spindle
- Easier installation when machine restricts access to all sides of the footplate
- Lower seismic performance than round footplate
- Available in one size for small and one size for large
- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded seismic leveling feet - HXJCFE (S)



PRODUCT CODE FOOT - SPINDLE

EXAMPLE

HXJCFE300()-HXE72250

## FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE	POSITION E [mm]	NOM. PULL TENSION (N)	ITEM CODE
150	150X250	15	4	M12x155	60X104 : 143x64	17000	HXJCFE150(s)

## SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN* [mm]	NOM LOAD [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M30	116	77	228	105	60.000	2100	HXE(s)30150
M30	178	77	288	105	60.000	1300	HXE(S)30210
M36	114	77	221	105	96.000	3500	HXE(S)36150
M36	179	77	288	105	96.000	2200	HXE(S)36210
M42	118	82	233	110	140.000	4900	HXE(S)42150
M42	179	82	298	110	140.000	3200	HXE(S)42210
M48	143	82	283	120	140.000	6900	HXE(S)48200
M48	203	82	343	120	140.000	4800	HXE(S)48260
M56	138	82	278	120	140.000	13100	HXE(S)56200
M56	203	82	343	120	140.000	8900	HXE(S)56260



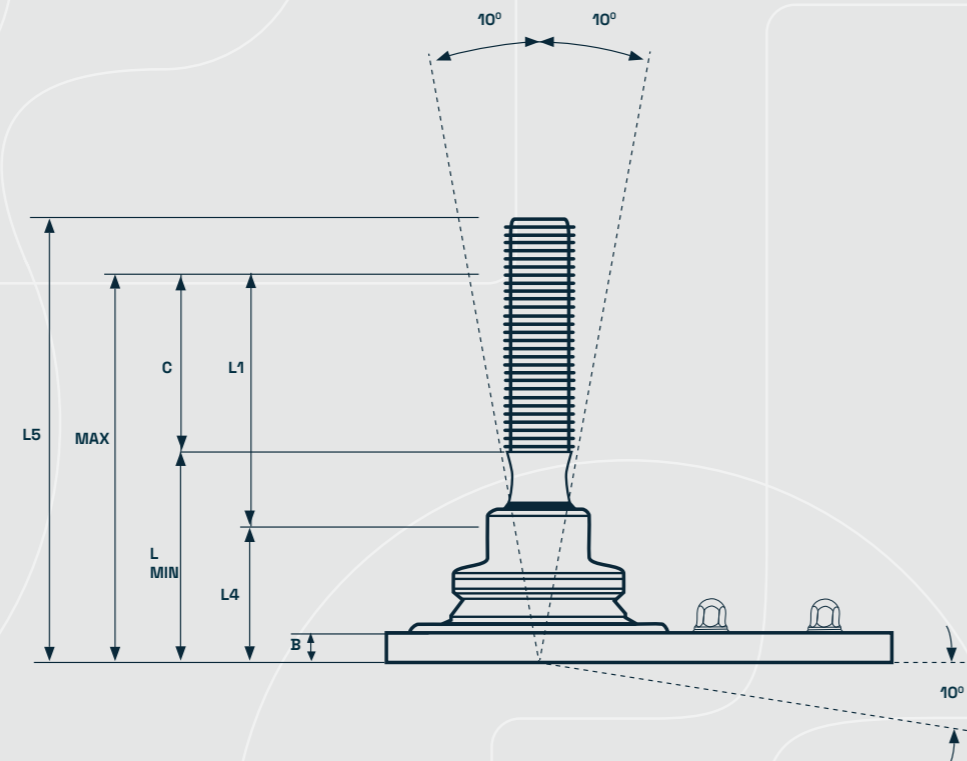
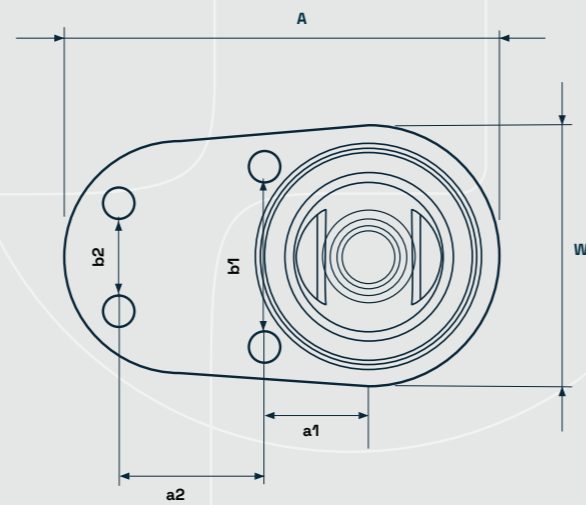
\*L MIN is calculated without use of nut on spindle



# Fully-threaded seismic leveling feet - HXJCFE (L)

The design and patent protected seismic HXJCFE (L) leveling foot is the optimal choice for all machinery, equipment, tanks and vessels located in areas subject to earthquakes and at the same time need to benefit from a long leveling range.

- Anchors decentered at one side of the spindle
- Easier installation when machine restricts access to all sides of the footplate
- Lower seismic performance than round footplate
- Available in one size for small and one size for large
- Simple and fast installation with height-adjustable compact design
- Adjustment through flat at the bottom of spindle
- Movable set-up - no concrete molding required
- Total seismic stability through bolted fastening and patented locking mechanism
- Verified through Finite Element Analysis (FEA) and calculated according to New Zealand seismic standard (NZS 4219)
- Calculated according to New Zealand seismic standard NZS 4219
- Seismic anchors chosen and approved by our experienced partner Hilti
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



# Fully-threaded seismic leveling feet - HXJCFE (L)



PRODUCT CODE

FOOT - SPINDLE

EXAMPLE

HXJCFE300()-HXE72250

## FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE	POSITION E	NOM. PULL (TENSION)	ITEM CODE
300	300X400	15	4	M16x240	86x214:200x120	30000	HXJCFE300()

## SPINDLE



THREAD	HEIGHT L1 [mm]	HEIGHT L4 [mm]	HEIGHT L5 [mm]	L MIN [mm]	NOM LOAD [N]	MAX HORIZONTAL LOAD SHEAR [N]	ITEM CODE
M56	138	82	278	120	140.000	13100	HXE(S)56200
M56	203	82	343	120	140.000	8900	HXE(S)56260
M64	143	118	319	156	236.000	17800	HXE(L)64260
M64	203	118	379	156	236.000	12500	HXE(L)64260
M72	166	129	380	170	327.000	22200	HXE(L)72250
M72	226	129	438	170	327.000	16300	HXE(L)72310
M80	166	129	380	170	432.000	30800	HXE(L)80250
M80	226	129	438	170	432.000	22600	HXE(L)80310
M90	166	129	380	170	432.000	50500	HXE(L)90250
M90	226	129	438	170	432.000	37100	HXE(L)90310



\*L MIN is calculated without use of nut on spindle

# Declaration of conformity Seismic leveling feet

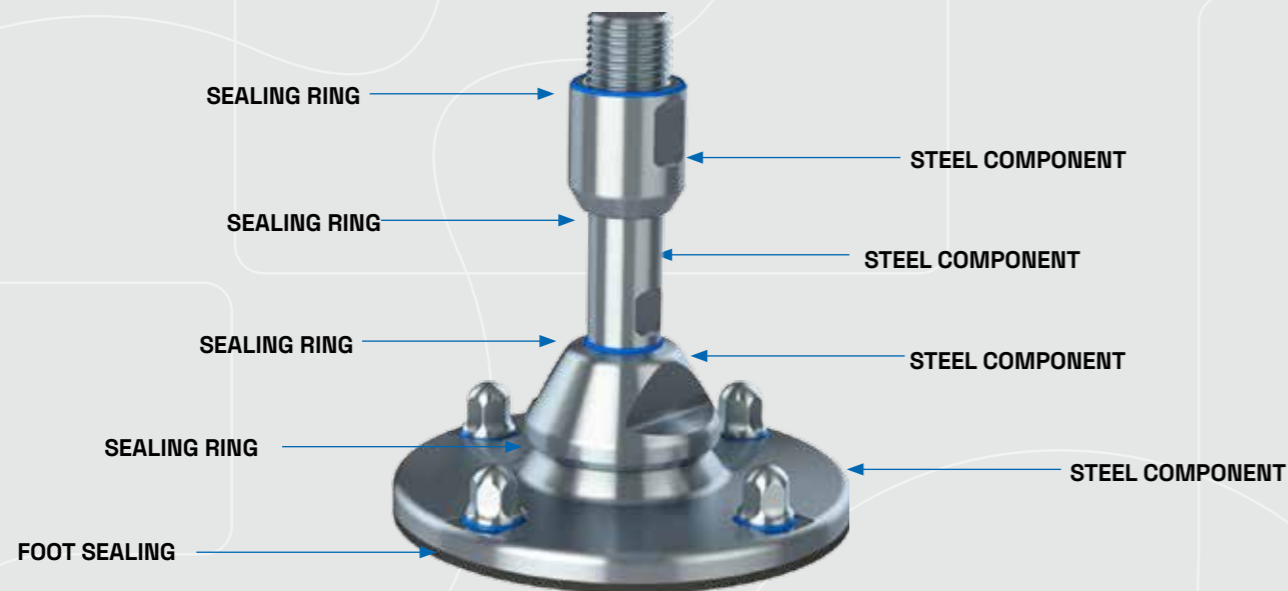


NGI A/S fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions/amendments to these directives and will design our products accordingly. This ensures that products from NGI A/S are always in compliance with currently valid requirements.

Our type of products is not covered by the scope of application of the EC directive on machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive on machinery.

NGI A/S, Virkelyst 3-7, 9400 Nørresundby, hereby declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industry.

Furthermore, we declare that the listed materials applied for the products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Seismic leveling feet

## Materials, Surface Roughness, Fabrication and Geometry

Metallic surfaces are constructed from Stainless steel, AISI 304/A2 or by request Stainless steel, AISI 316/A4 and are corrosion resistant under the specified conditions of use including those of cleaning.

The elastomeric components are constructed from FDA approved NBR and silicone material. All materials used are considered non-toxic and are non-absorbent.

All exposed metallic surfaces are finished to maximum surface roughness values of 1.6 µm Ra. All elastomeric components and sealing washers are left as molded with no hand trimming and all surfaces are considered smooth enough to ensure that cleaning is easy.

There are no exposed dissimilar metal-to-metal contact areas in the construction where galvanic corrosion could occur.

Sealing designs permit access for easy cleaning with no inaccessible pockets or crevices.

There are no risk of exposed threads and no unsealed metal-to-metal joints in the finished construction.

All exposed surfaces have a smooth finish such that soil may be cleaned from the surface using manual cleaning techniques and be free of pits, folds, cracks, crevices, and other imperfections in the final fabricated form.

## Drainability and Installation

The units are designed to be self-draining and contain no horizontal ledges.

Comprehensive instructions are provided containing detailed information to ensure compliance with the 3-A and EHEDG design criteria, when the product is certified.

The 3-A Sanitary Standard 88-00 requires that when machine leveling feet or supports are properly mounted on the equipment, they shall provide a minimum clearance between the lowest part of the equipment and the floor of not less than 4.0 in. (102 mm) if the equipment outlines an area in which no point is more than 12.5 in. (318 mm) from its nearest edge. If the equipment outlines an area in which any point is more than 12.5 in. (318mm) from its nearest edge the clearance shall be at least 6 in. (152mm).

The EHEDG guideline recommends a minimum clearance between the equipment and the floor or wall of 300mm for easy cleaning and inspection.

When fasteners are required, only domed head screws and dome headed nuts must be used. The exposed interfaces shall be sealed with sealing washers and there must be no threads exposed in the installed configuration of the machine feet.

# Declaration of conformity Seismic leveling feet

- Certified hygienic
- Minimized cleaning time
- Minimized water usage

## Maintenance and Cleaning

Foot bases can be sealed to the floor if required. The instructions make recommendations not to span over floor imperfections or grout lines without the addition of proper sealing compounds.

Maximum torque values are specified as appropriate on fastening arrangements to avoid over-compression of sealing washers and gaskets.

**Maintenance instructions are clearly defined and prohibit the use of non-genuine replacement parts.**

Cleaning instructions describe typical cleaning procedures with recommended maximum temperatures/pressures and stipulate the use of non-abrasive cleaning aids.

The design does not contain dead spaces and avoid accumulation of soil, microorganism's insects and other vermin in areas which cannot be easily cleaned.

## Adhesives, Lubricants, Insulation and Signal Transfer Liquids

Sealing and thread locking compounds used in the construction are non-toxic in the cured state.

No lubricants, insulation material or signal transfer liquids are used in the construction.

## Standards and directives

EN 1672-2:2005 Food machinery / General design principles/Part 2: Hygiene requirements.

EN ISO 14 159 2004 Safety of machinery "Hygiene requirements for the design of machinery.

Document 13 EHEDG guideline on the hygienic design of apparatus for open processes.

Similar NGI designs meets the criteria for Hygienic Equipment Class I for components situated in the non-food area and are accessible for easy cleaning without dismantling.

The weighing leveling feet design is according to 3-A Sanitary Standard for Machine Leveling Feet and Supports.

Certified according to USDA Guidelines "Dairy Equipment and NSF ANSI 3-A 14159-1-2014 for the sanitary design and fabrication.

New Zealand seismic standard NZS 4219.



IN CONFORMANCE WITH NZS 4219; NZS 1170.5  
NEW ZEALAND

## EU regulations

852/2004 on the hygiene of foodstuffs.

853/2004 specific hygiene rules for food of animal origin.

854/2004 specific rules for the organization of official controls on products of animal origin intended for human consumption.

1935/2004 on materials and articles intended to come into contact with food

# Declaration of conformity Seismic leveling feet

## The declaration of materials concerns the following Applications

### Application:

Material type:

Compliance:

### STEEL COMPONENT

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euro norm 1.4301.  
By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401  
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.  
NGI A/S has got EN 10204 type 3.1 inspection certificates on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

Electrically:

Color:

Hardness:

Range of temperature:

Load:

### Foot sealing

NBR by request EPDM

Non-conductive

Black

Shore A 80 ± 5

Min -20°C to Max +110°C

Low load capacity

Compliance:

REACH:

In accordance with regulation EC 1907/2006.

Do not contain any substances above 0.1% (w/w) from:

The Candidate List of Substances of Very High Concern (16.01.2020).  
Annex XVII (19-11-2019)

RoHS 2 & RoHS 3

In accordance with the directive 2011/65/EC and 2015/863/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

ADI free:

Does not contain any substances originating from humans or animals.

Bisphenols:

Does not contain Bisphenols as described in 1895/2005/EEC. Nor BPA, BADGA, BFDGE or NOGE.

ODS:

Does not contain ozone depleting substances. In accordance with the Regulation EC 1005/2009 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 SEPTEMBER 2009 and Regulation EC 2037/2000 OF EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 29 JUNE 2000.

Conflict Materials:

In accordance with US Law: "Dodd Frank Wall Street Reform & Consumer Protection Act", sec. 1502, of 21.07.2010.

GMP:

Good manufacturing process in accordance with 2023/2006 EC.

Hazardous materials:

Does not contain any hazardous substances as described in the Hong Kong International Convention for the Safe and Environmental. Sound Recycling of ships, 2009.

Phthalates:

Does not contain phthalates.

FDA:

Guideline 21 CFR 177.2600

### Application:

Material type:

Electrically:

Chemical resistance:

Hardness:

Color:

Range of temperature:

Storage:

Compliance:

### Sealing ring

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

Shore A 60 ± 5

RAL 5010 (blue)

Min -60°C to Max +200°C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

# Hygienic leveling casters

The classic hygienic-oriented design for machinery and equipment for use in diverse wet production environments

They offer value for money and are available in numerous varieties and functions



# Hygienic leveling caster

NGI is the only manufacturer in the world of casters with hygienic leveling spindles. The product group consists of three hygienic-oriented types of casters: A caster with a plate fitting, a caster with leveling spindles and a single bolt hole  $\varnothing 13$ .

The caster type with hygienic leveling spindles makes it possible to level your machinery and equipment while maintaining an acceptable hygienic design. All types of casters are an acceptable choice for machinery and equipment in diverse sanitary production environments.

## Product Group Features

- Fork housing made of stainless steel AISI 304/A2, 1.4301.
- Wheel axle with nut
- White caster rim made of polyamide
- Blue tread made from polyurethane
- Stainless steel roller bearings
- Wheel dimensions  $\varnothing 80$ ,  $\varnothing 100$  and  $\varnothing 125$
- Load capacity tested according to EN 12532



### SCR-B-XH

#### Special Features

- Hygienic leveling swivel caster
- Height variation 7.2 in - 14.4 in
- Brake and swivel on wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

266



### SCR-HX

#### Special Features

- Swivel leveling caster
- Double ball bearing swivel head
- Weight load up to 1.500 N

272



### SCR-XH

#### Special Features

- Hygienic leveling swivel caster
- Height variation 7.2 in - 14.4 in
- Double ball bearing swivel head
- Dynamic weight load up to 1.500 N

268



### SCR-B

#### Special Features

- Swivel caster with single bolt hole  $\varnothing 13$
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

274



### SCR-B-HX

#### Special Features

- Swivel leveling caster
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 1.500 N

270



### SCR

#### Special Features

- Swivel caster with single bolt hole  $\varnothing 13$
- Double ball bearing swivel head
- Weight load up to 1.500 N

276



## SCSB

### Special Features

- Swivel caster with plate fitting
- Brake on swivel and wheel
- Double ball bearing swivel head
- Weight load up to 4.000 N

278



## SCS

### Special Features

- Swivel caster with plate fitting
- Double ball bearing swivel head
- Weight load up to 3.500 N

280



## CS

### Special Features

- Swivel caster with plate fitting
- Rigid swivel
- Weight load up to 4.000 N

282



## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

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Visit our website to learn more  
[us.ngi-global.com/products/leveling-casters](https://us.ngi-global.com/products/leveling-casters)



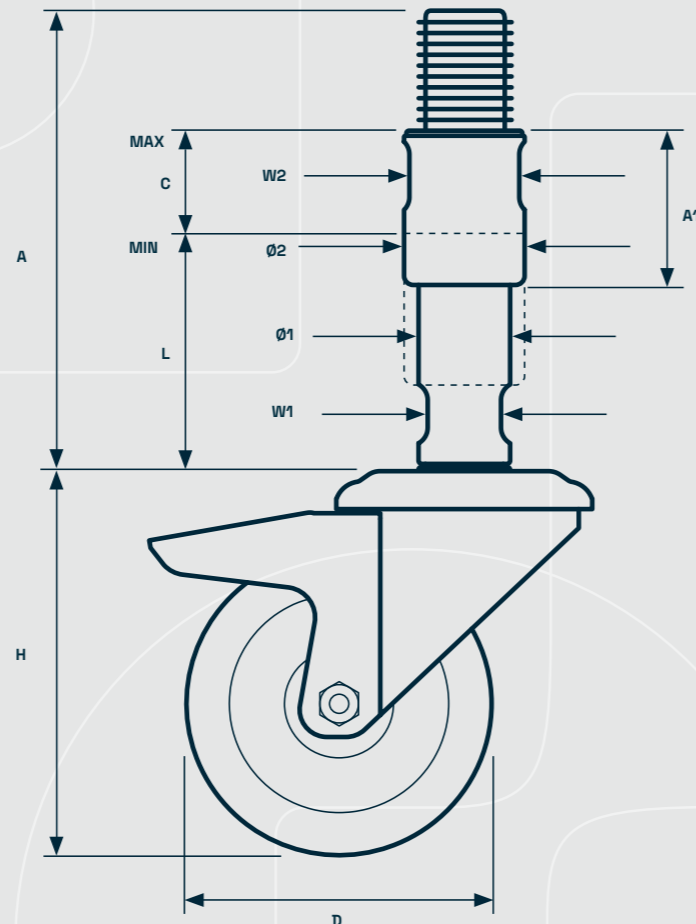
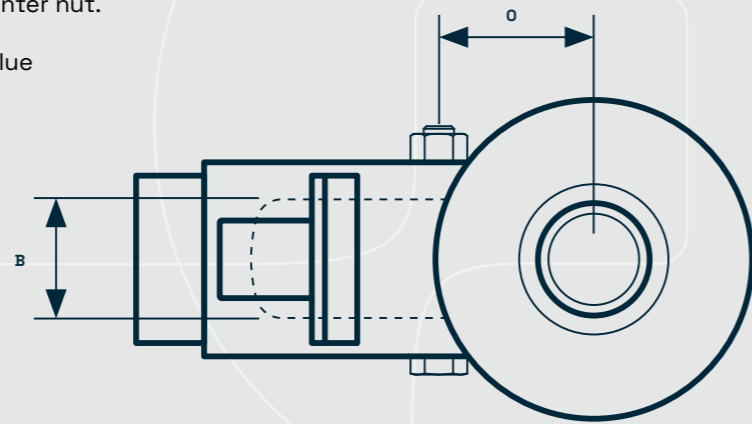
# Hygienic leveling caster - SCRB-XH

The SCRB-XH hygienic leveling swivel caster is the optimal choice for machinery and equipment in diverse sanitary production environments.

The SCRB-XH is equipped with a brake on swivel and wheel.

The thread on the spindle is covered with a hygienic sleeve, which cannot be overadjusted and secures safety against exposed thread. The sleeve also functions as counter nut.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Hygienic leveling caster - SCRB-XH



## CASTER



## SPINDLE



## SLEEVE



PRODUCT CODE Caster - SPINDLE - SLEEVE

EXAMPLE SCRB100-XHCM125483 - RHOX5432

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.500	SCRB080
100	3.94	5.04	1.61	1.26	1.500	SCRB100
125	4.92	6.10	1.57	1.26	1.500	SCRB125
160	6.29	7.67	2.36	1.57	1.500	SCRB160

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	DYNAMIC LOAD COMPRESSION [N]	ITEM CODE
5/8-11	6.10	3.15	1/2	0.63	559	XHCM125859
5/8-11	8.46	4.33	1/2	0.63	399	XHCM125883
3/4-10	6.10	3.15	9/16	0.75	958	XHCM123459
3/4-10	8.46	4.33	9/16	0.75	843	XHCM123483
1-8	6.10	3.15	3/4	1.00	1928	XHCM121059
1-8	8.46	4.33	3/4	1.00	1700	XHCM121083
1 1/4-7	6.10	2.99	1	1.25	3366	XHCM125459
1 1/4-7	8.46	4.17	1	1.25	2975	XHCM125483

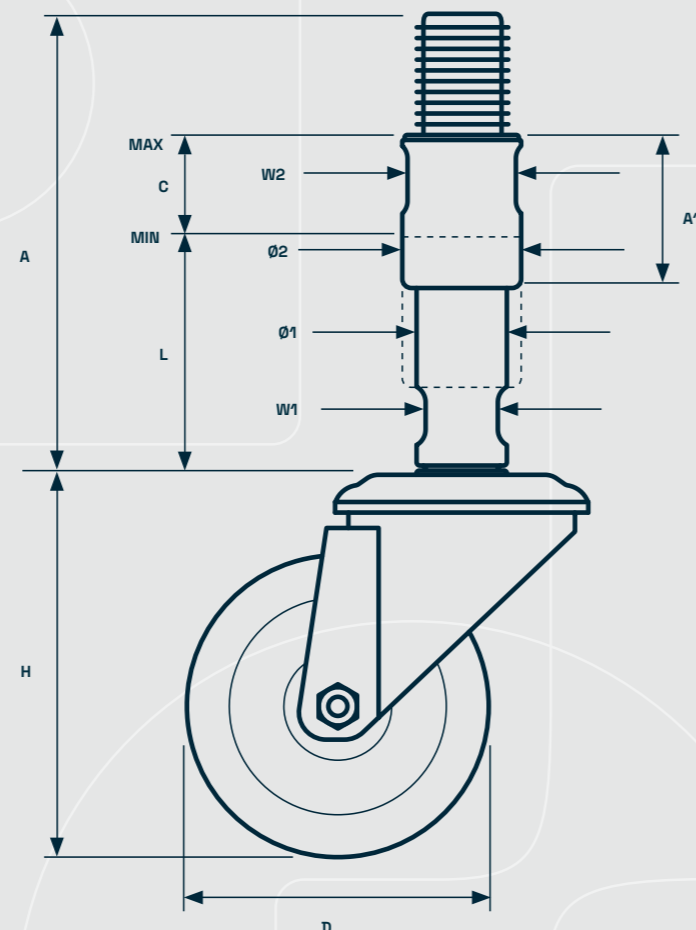
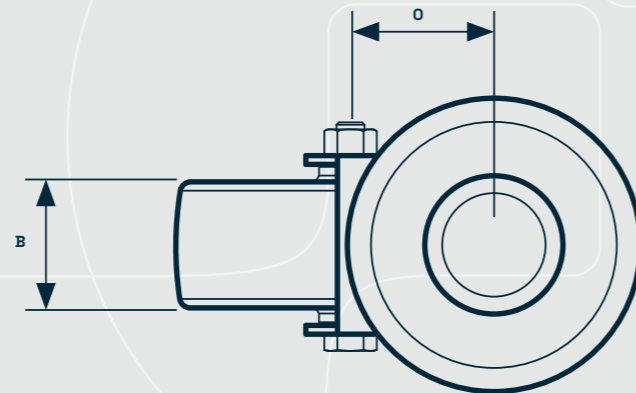
THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A1 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	2.17	1.42	RHOX5820
5/8-11	7/8	0.98	3.35	2.60	RHOX5832
3/4-10	1	1.17	2.17	1.42	RHOX3420
3/4-10	1	1.17	3.35	2.60	RHOX3432
1-8	5/4	1.36	2.17	1.42	RHOX1020
1-8	5/4	1.36	3.35	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	2.17	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.35	2.60	RHOX5432

Total height = A + H  
 Minimum usable height = H + L  
 Maximum usable height = H + L + C  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

# Hygienic leveling caster - SCR-XH

The design and patent protected SCR-XH hygienic leveling swivel caster is the optimal choice for machinery and equipment in diverse sanitary production environments.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Hygienic leveling caster - SCR-XH



## CASTER



## SPINDLE



## SLEEVE



PRODUCT CODE Caster - SPINDLE - SLEEVE

EXAMPLE SCR100 -XHCM125483 - RHOX5432

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.000	SCR080
100	3.94	5.04	1.61	1.26	1.000	SCR100
125	4.92	6.10	1.57	1.26	1.500	SCR125
160	6.29	7.67	2.36	1.57	1.500	SCR160

THREAD	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	DIAMETER Ø1 [in]	DYNAMIC LOAD COMPRESSION [N]	ITEM CODE
5/8-11	6.10	3.15	1/2	0.63	559	XHCM125859
5/8-11	8.46	4.33	1/2	0.63	399	XHCM125883
3/4-10	6.10	3.15	9/16	0.75	958	XHCM123459
3/4-10	8.46	4.33	9/16	0.75	843	XHCM123483
1-8	6.10	3.15	3/4	1.00	1928	XHCM121059
1-8	8.46	4.33	3/4	1.00	1700	XHCM121083
1 1/4-7	6.10	2.99	1	1.25	3366	XHCM125459
1 1/4-7	8.46	4.17	1	1.25	2975	XHCM125483

THREAD	W2 [in]	DIAMETER Ø2 [in]	HEIGHT A1 [in]	ADJUSTMENT C [in]	ITEM CODE
5/8-11	7/8	0.98	2.17	1.42	RHOX5820
5/8-11	7/8	0.98	3.35	2.60	RHOX5832
3/4-10	1	1.17	2.17	1.42	RHOX3420
3/4-10	1	1.17	3.35	2.60	RHOX3432
1-8	5/4	1.36	2.17	1.42	RHOX1020
1-8	5/4	1.36	3.35	2.60	RHOX1032
1 1/4-7	1 1/2	1.56	2.17	1.42	RHOX5420
1 1/4-7	1 1/2	1.56	3.35	2.60	RHOX5432

Total height = A + H  
 Minimum usable height = H + L  
 Maximum usable height = H + L + C  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

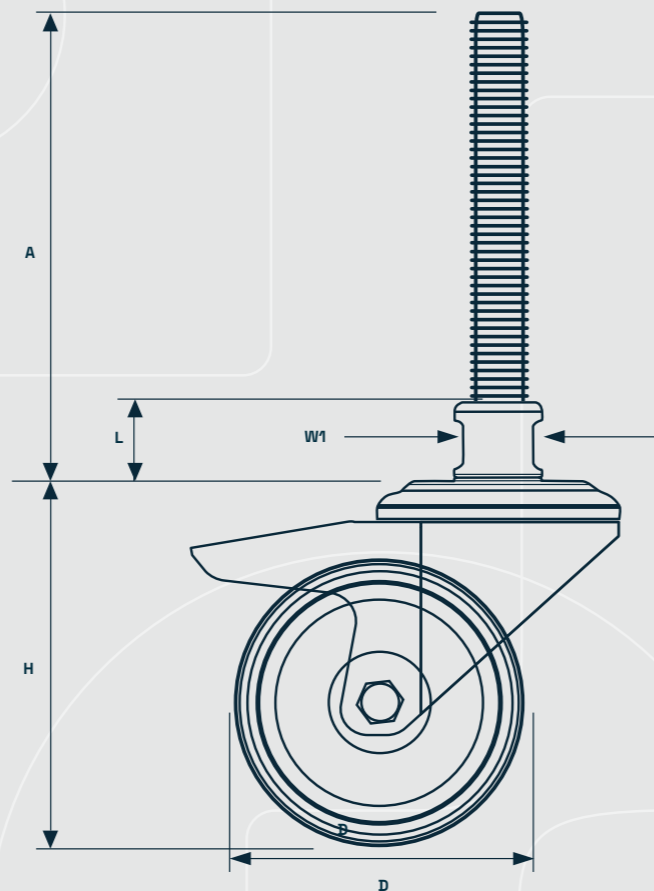
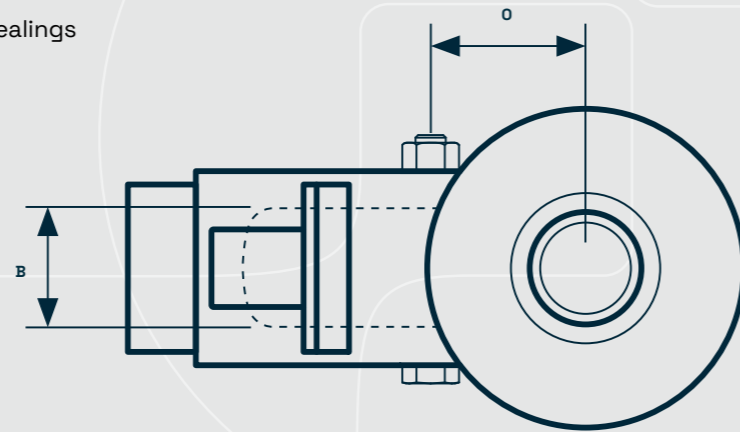


# Hygienic leveling caster - SCRB-HX

The SCRB-HX leveling swivel caster is the optimal choice for machinery and equipment in diverse production environments.

The SCRB-HX is equipped with a horizontal and vertical brake, which totally locks the position of the caster.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Hygienic leveling caster - SCRB-HX



PRODUCT CODE Caster - spindle

EXAMPLE SCRB100-HXCM125483

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.500	SCRB080
100	3.94	5.04	1.61	1.26	1.500	SCRB100
125	4.92	6.10	1.57	1.26	1.500	SCRB125
160	6.29	7.67	2.36	1.57	1.500	SCRB150

## SPINDLE



TYPE ▶	70	100	150	180	230	310	W1 [in]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
3/4-10	578	539	480	337	196	124	1
1-8	1363	1275	1127	1013	871	520	1
1 1/4-7	2739	2600	2271	2043	1846	1663	1
HEIGHT A [in]	3	4	6	8	10	12	

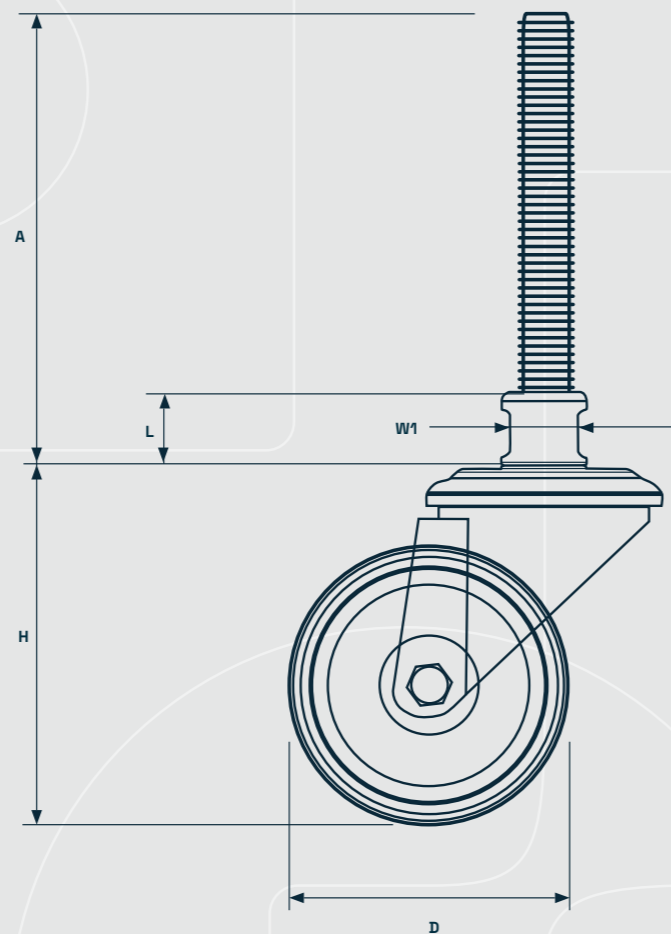
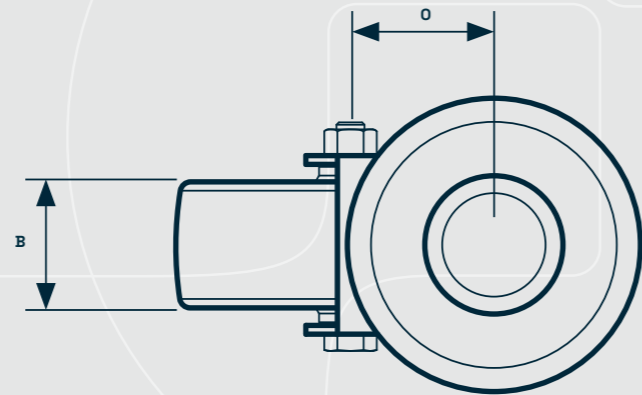


Total height = A + H  
 Minimum usable height = H + L  
 Maximum usable height = A + H - thread dimension  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

# Hygienic leveling caster - SCR-HX

The SCR-HX hygienic leveling swivel caster is the optimal choice for machinery and equipment in diverse production environments.

Spindle parts are 100% hygienically sealed with blue sealings detectable by scanning systems.



# Hygienic leveling caster - SCR-HX



## CASTER



## SPINDLE



PRODUCT CODE Caster - Spindle

EXAMPLE SCR100-HXCM125483

TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.000	SCR80
100	3.94	5.04	1.61	1.26	1.000	SCR100
125	4.92	6.10	1.57	1.26	1.500	SCR125
160	6.29	7.67	2.36	1.57	1.500	SCR160

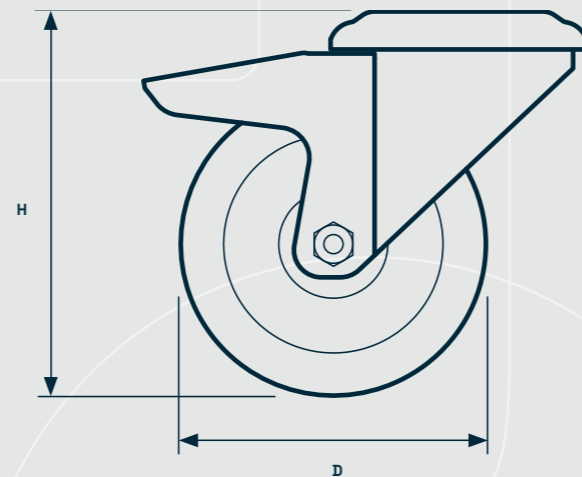
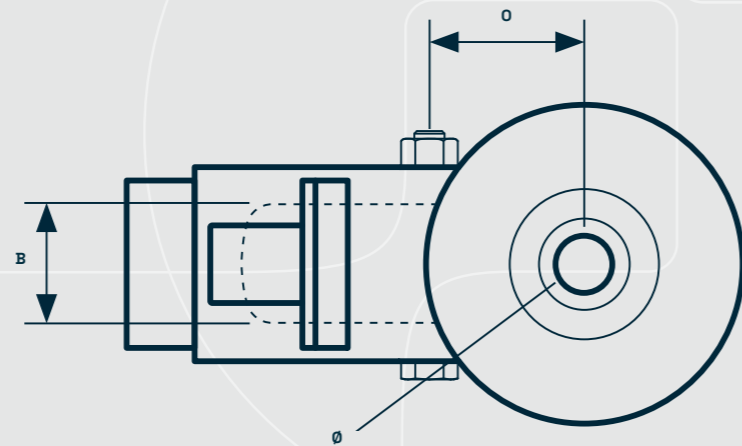
TYPE ▶	70	100	150	180	230	310	W1 [in]
THREAD	[N]	[N]	[N]	[N]	[N]	[N]	
3/4-10	578	539	480	337	196	124	1
1-8	1363	1275	1127	1013	871	520	1
1 1/4-7	2739	2600	2271	2043	1846	1663	1
HEIGHT A [in]	3	4	6	8	10	12	

Total height = A + H  
 Minimum usable height = H + L  
 Maximum usable height = A + H - thread dimension  
 Maximum nominal load = Lowest value for caster or spindle  
 Tolerance of total height = +/-0,02 in

# Hygienic caster - SCRB

The SCRB swivel caster with round mounting is the optimal choice for machinery and equipment in diverse production environments.

The SCRB is equipped with a brake on swivel and wheel.



# Hygienic caster - SCRB

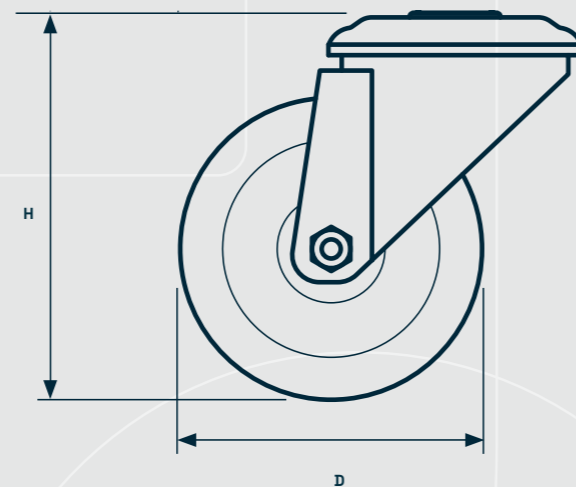
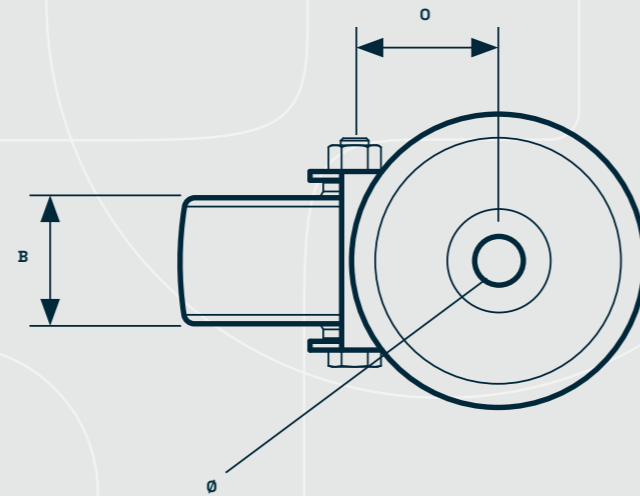
## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	HOLE DIAMETER Ø [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	0.51	1.500	SCRB080
100	3.94	5.04	1.61	1.26	0.51	1.500	SCRB100
125	4.92	6.10	1.57	1.26	0.51	1.500	SCRB125
160	6.29	7.67	2.36	1.57	0.51	1.500	SCRB160

# Hygienic caster - SCR

The SCR swivel caster with round mounting is the optimal choice for machinery and equipment in diverse production environments.



# Hygienic caster - SCR

## CASTER

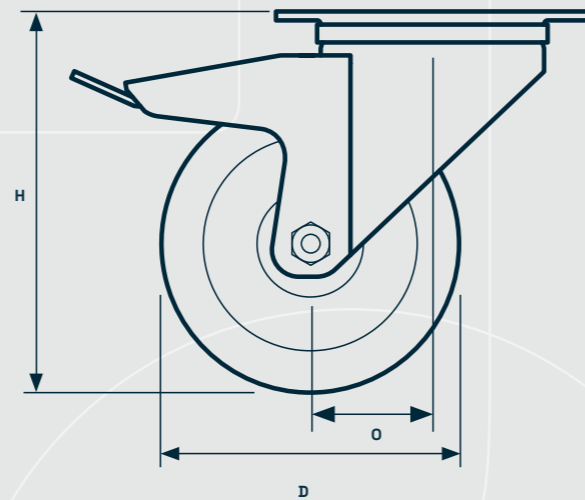
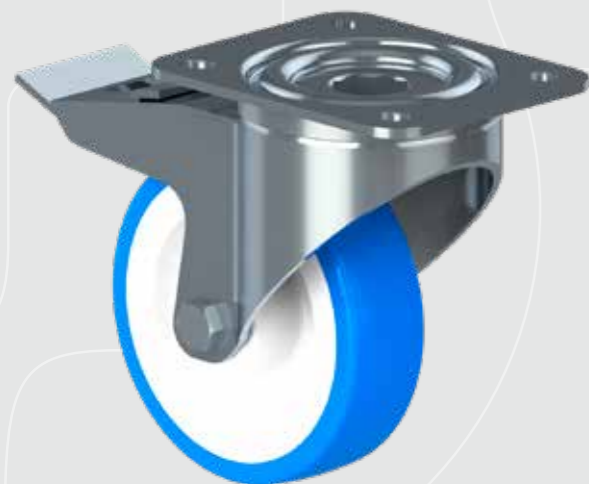
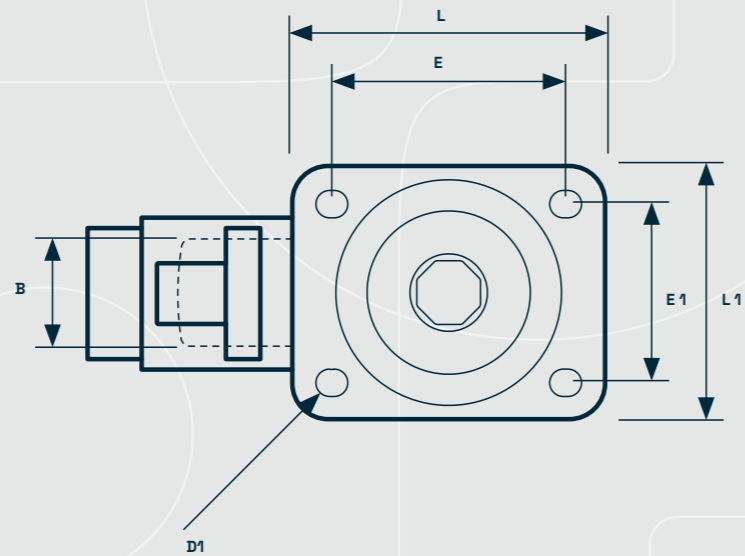


TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	HOLE DIAMETER Ø [mm]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	0.51	1.000	SCR080
100	3.94	5.04	1.61	1.26	0.51	1.000	SCR100
125	4.92	6.10	1.57	1.26	0.51	1.500	SCR125
160	6.29	7.67	2.36	1.57	0.51	1.500	SCR160

# Hygienic caster - SCSB

The SCSB hygienic swivel caster with a fixing plate is the optimal choice for machinery and equipment in diverse sanitary production environments.

The SCSB is equipped with a brake on swivel and wheel.



# Hygienic caster - SCSB

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.500	SCSB080
100	3.94	5.04	1.61	1.26	1.500	SCSB100
125	4.92	6.10	1.57	1.26	1.500	SCSB125
125HD	4.92	6.34	2.17	1.26	3.000	SCSB125HD
160	6.30	7.87	2.17	1.26	3.500	SCSB160
200	7.87	9.45	2.17	1.26	4.000	SCSB200

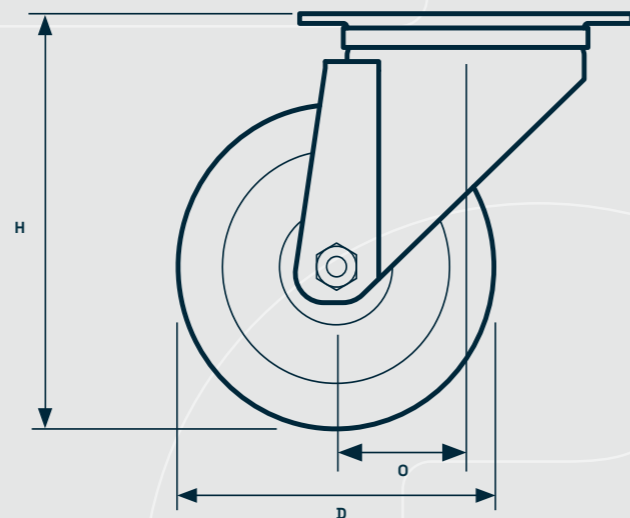
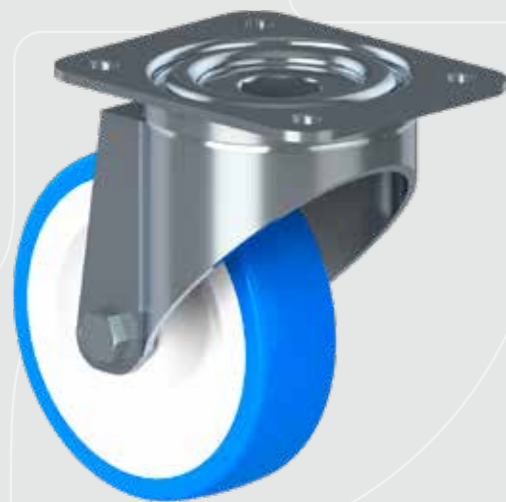
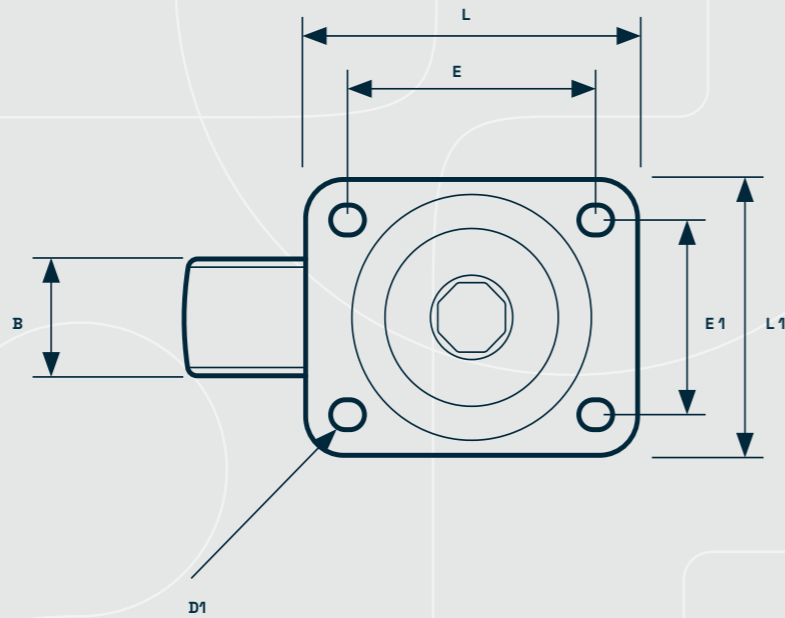
## FIXING PLATE



TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
80	4.13	3.35	3.15	2.36	0.35
100	4.13	3.35	3.15	2.36	0.35
125	4.13	3.35	3.15	2.36	0.35
125HD	5.39	4.13	4.13	3.15	0.43
160	5.39	4.13	4.13	3.15	0.43
200	5.39	4.13	4.13	3.15	0.43

# Hygienic caster - SCS

The SCS hygienic swivel caster with a fixing plate is the optimal choice for machinery and equipment in diverse sanitary production environments.



# Hygienic caster - SCS

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	OFFSET O [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.75	1.26	1.000	SCS080
100	3.94	5.04	1.61	1.26	1.500	SCS100
125	4.92	6.10	1.57	1.26	2.000	SCS125
125HD	4.92	6.34	2.17	1.26	3.000	SCS125HD
160	6.30	7.87	2.17	1.26	3.500	SCS160

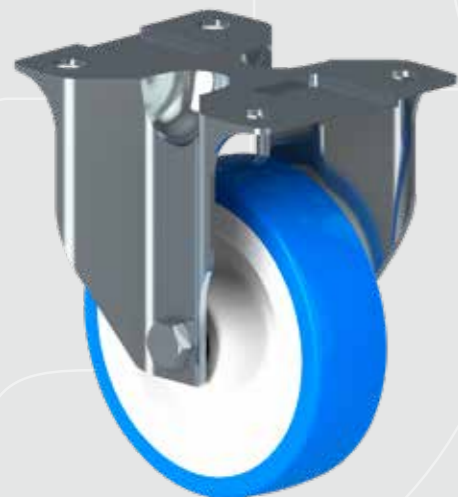
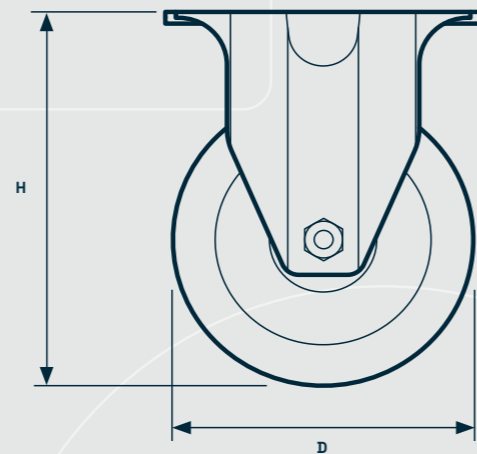
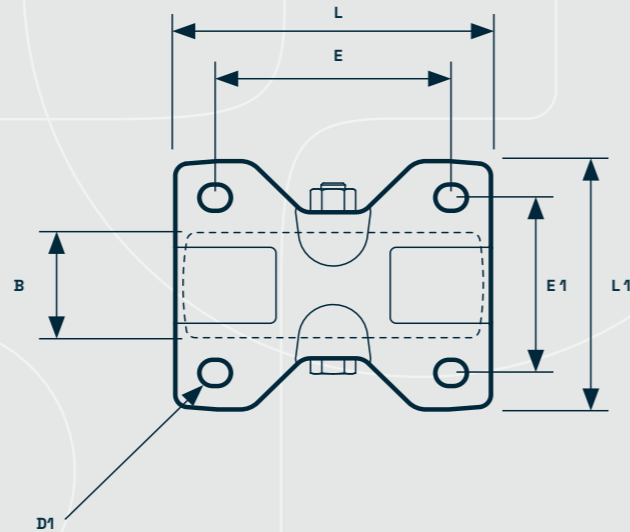
## FIXING PLATE



TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
80	4.13	3.35	3.15	2.36	0.35
100	4.13	3.35	3.15	2.36	0.35
125	4.13	3.35	3.15	2.36	0.35
125HD	5.39	4.13	4.13	3.15	0.43
160	5.39	4.13	4.13	3.15	0.43

# Hygienic caster - CS

The CS hygienic fixed caster is the optimal choice for machinery and equipment in diverse sanitary production environments.



# Hygienic caster - CS

## CASTER



TYPE	DIAMETER D [in]	HEIGHT H [in]	WIDTH B [in]	DYNAMIC LOAD [N]	ITEM CODE
80	3.15	4.25	1.26	1.000	CS080
100	3.94	5.04	1.26	1.500	CS100
125	4.92	6.10	1.26	2.000	CS125
125HD	4.92	6.34	1.26	3.000	CS125HD
160	6.30	7.87	1.26	3.500	CS160
200	7.87	9.45	1.26	4.000	CS200

## FIXING PLATE



TYPE	LENGTH L [in]	LENGTH L1 [in]	HOLE POSITION E [in]	HOLE POSITION E1 [in]	HOLE DIAMETER D1 [in]
80	4.06	3.35	3.15	2.36	0.35
100	4.06	3.35	3.15	2.36	0.35
125	4.06	3.35	3.15	2.36	0.35
125HD	5.39	4.53	4.13	3.15	0.43
160	5.39	4.53	4.13	3.15	0.43
200	5.39	4.53	4.13	3.15	0.43

# Declaration of conformity

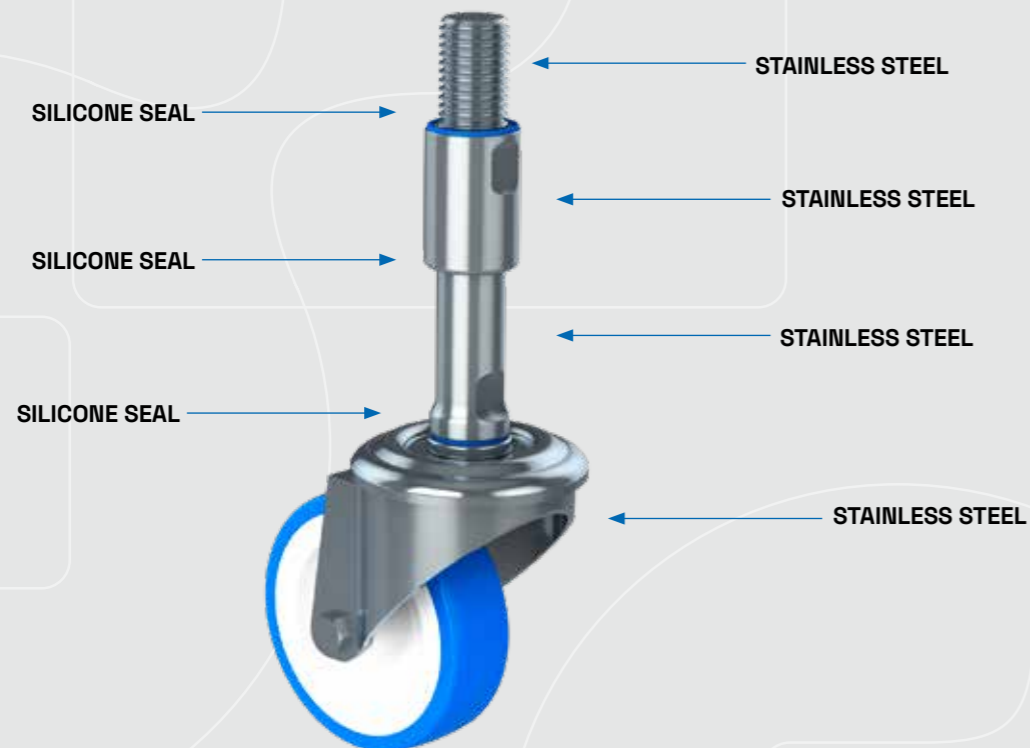
## Leveling casters



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity

## Leveling casters

### The declaration of materials concerns the following Applications

#### Application:

Material type:

Compliance: order

the

also

However,

#### Steel spindle and sleeve

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401 EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the

with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection certificates on all material used in

products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres,

known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive.

NGI leveling casters are suitable for use in all ATEX zones.

#### Application:

Material type: roller bearings

Dimensions: Compliance:

#### Caster Description:

Stainless steel AISI 304/A2, 1.4301: Fork housing, wheel axle with nut and

White caster rim made of polyamide

Blue tread made from polyurethane

Wheel dimensions Ø80, Ø100, Ø125, Ø160 and Ø200

Load capacity tested according to EN 12532

#### Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Storage:

Compliance:

FDA:

RoHS 2:

GMP:

#### Sealing ring between steel components for NGI's casters.

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

RAL 5010 (blue)

Shore A 60 ± 5

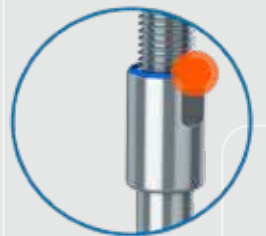
Min -60°C to Max +200 °C

According to ISO 2230

Guideline 21 CFR 177.2600

In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

Good manufacturing process in accordance with 2023/2006 EC.

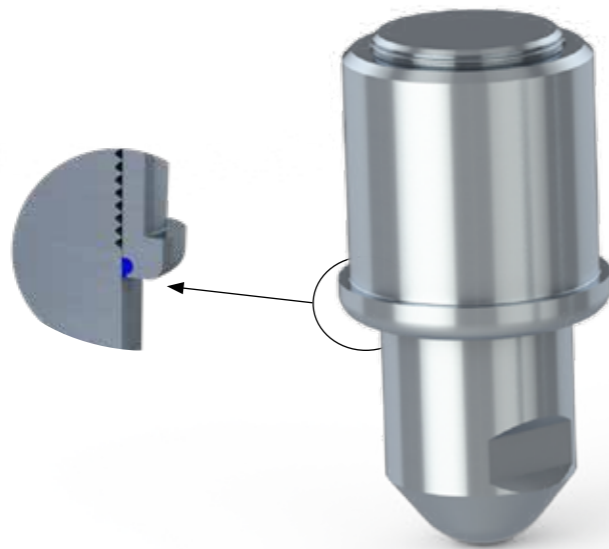




# Tank support bolts for leveling

The only hygienic tank support bolt in the world with sealing between welding connector and spindle

Sealed movable parts and no exposed thread reduces cleaning and increases sanitary safety



# Hygienic tank support bolts

The product group of hygienic-oriented tank support bolts is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. Choosing NGI's tank support bolts will secure your heavy machinery with a hygienic design.

## Product Group Features

- Designed for high load capacity
- Solid hygienic-oriented design with no exposed thread and limited cleaning effort
- Sealed welding connector with BSPP pipe thread
- Customized welding connectors available
- Optional counter nut available
- Optional anti-vibration, anti-slip rubber underneath the footplate
- Stainless steel AISI 304/A2, 1.4301. Optional AISI 316/A4, 1.4401



## SBX

### Special Features

- Height variation 1.26 in – 3.35 in
- Weight load up to 493.600 N
- The support bolt absorbs slants up to 20°

290



## COUNTER NUT

- Counterlocks the spindle against the top of the welding connector

296



## KTSBX

### Special Features

- Height variation 1.50 in - 3.70 in
- Weight load up to 200.000 N
- The footplate and support bolt are two separate parts
- Diametrically centered depression in the footplate
- The support bolt absorbs slants up to 20°

292



## DECLARATION OF CONFORMITY

This declaration of conformity lists all the directives and standards that NGI adheres to. This ensures that products from NGI are always in compliance with currently valid requirements.

298



## KTSBX AS

### Special Features

- Height variation 1.69 in - 3.86 in
- Weight load up to 30.000 N
- The footplate and support bolt are two separate parts
- Diametrically centered depression in the footplate
- The support bolt absorbs slants up to 20°
- Anti-vibration, anti-slip rubber underneath the footplate

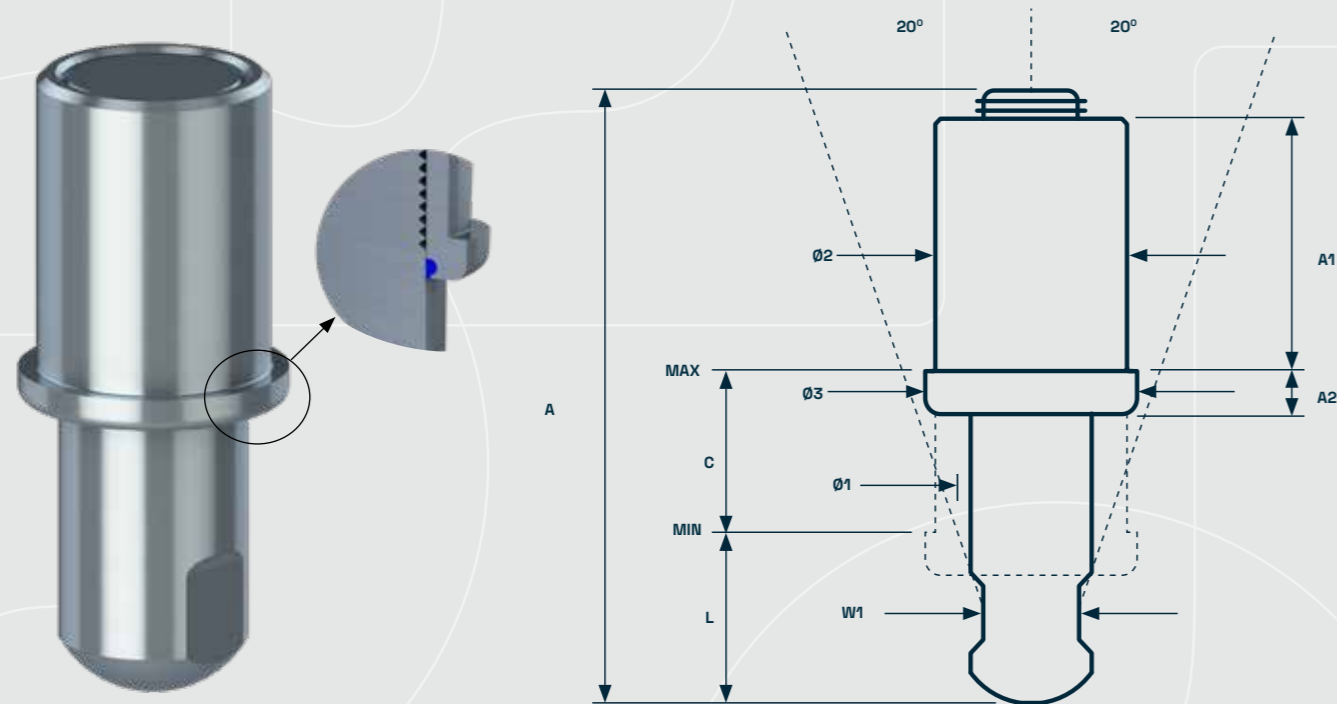
294

# Tank support bolts - SBX

The SBX support bolt is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The SBX support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



# Tank support bolts - SBX



PRODUCT CODE

SPINDLE - SLEEVE

EXAMPLE

SBX12114-WCXRU1260

## SPINDLE



THREAD A [BSPP]	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [in]	ITEM CODE
1/2 - 14	4.72	1.30	3/4	46.654	0.87	SBX12120
3/4 - 14	4.72	1.50	1	78.309	1.18	SBX34120
1 - 11	5.51	1.61	1 1/4	122.967	1.38	SBX10140
1 1/4 - 11	5.51	1.73	1 1/2	204.021	1.65	SBX54140
1 1/2 - 11	5.51	51	1 3/4	270.603	1.97	SBX32140
2 - 11	5.91	2.01	2 1/4	431.925	2.41	SBX20150

## SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [in]	HEIGHT A1 [in]	HEIGHT A2 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	ITEM CODE
1/2 - 14	1.18	2.09	0.28	1.50	1.65	WCXRU1260
3/4 - 14	1.18	1.97	0.39	1.77	1.97	WCXRU3460
1 - 11	1.18	1.97	0.39	2.17	2.36	WCXRU1060
1 1/4 - 11	1.18	2.64	0.31	2.05	2.36	WCXRU5475
1 1/2 - 11	1.18	2.64	0.31	2.44	2.72	WCXRU3275
2 - 11	1.18	2.64	0.31	2.95	3.15	WCXRU2075



Total height = A  
 Minimum usable height = L  
 Maximum usable height = L + C  
 Tolerance of total height = +/-0,02 in

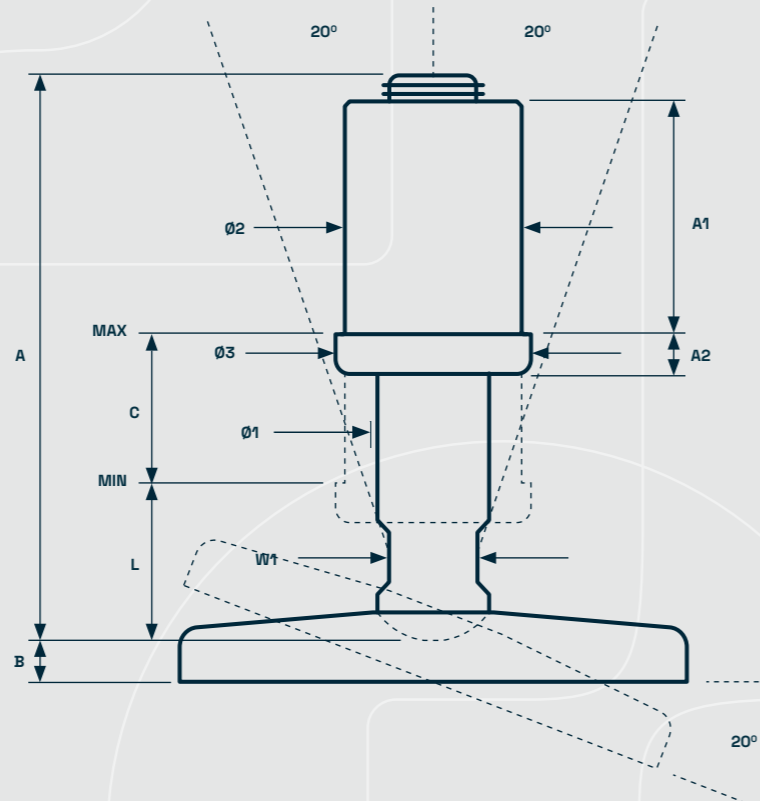
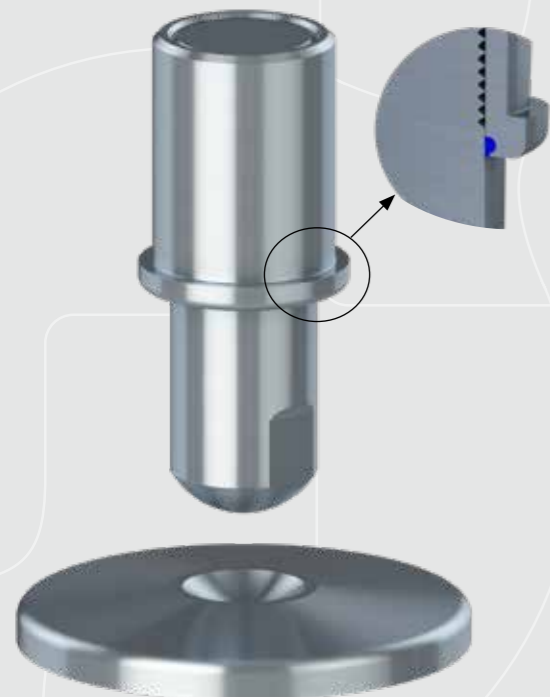
# Tank support bolts - KTSBX

The KTSBX support bolt with footplate is the optimal choice for extremely heavy machinery, equipment, tanks and vessels in diverse production environments where distribution of the weight load is required.

The KTSBX consists of a separated footplate, support bolt and welding connector. The support bolt is held in place by the diametrically centered depression in the footplate.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The KTSBX support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



# Tank support bolts - KTSBX



PRODUCT CODE

FOOT - SPINDLE - SLEEVE

EXAMPLE

KT090-SB12114-WCX1255

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90	3.50	0.35	120.000	KT090
110	4.29	0.31	140.000	KT110
130	5.08	8,5	200.000	KT130
150	5.87	8,5	200.000	KT150

## SPINDLE



THREAD A [BSPP]	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [in]	ITEM CODE
1/2 - 14	4.72	1.30	3/4	46.654	0.87	SBX12120
3/4 - 14	4.72	1.50	1	78.309	1.18	SBX34120
* 1 - 11	5.51	1.61	1 1/4	122.967	1.38	SBX10140
* 1 1/4 - 11	5.51	1.73	1 1/2	204.021	1.65	SBX54140
* 1 1/2 - 11	5.51	51	1 3/4	270.603	1.97	SBX32140
* 2 - 11	5.91	2.01	2 1/4	431.925	2.41	SBX20150

## SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [in]	HEIGHT A1 [in]	HEIGHT A2 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	ITEM CODE
1/2 - 14	1.18	2.09	0.28	1.50	1.65	WCXRU1260
3/4 - 14	1.18	1.97	0.39	1.77	1.97	WCXRU3460
1 - 11	1.18	1.97	0.39	2.17	2.36	WCXRU1060
1 1/4 - 11	1.18	2.64	0.31	2.05	2.36	WCXRU5475
1 1/2 - 11	1.18	2.64	0.31	2.44	2.72	WCXRU3275
2 - 11	1.18	2.64	0.31	2.95	3.15	WCXRU2075



Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height = +/-0,02 in

\* Adjust A -2 mm and B +2 mm if footplate is combined with spindle BSPP 1, BSPP 1 1/4, BSPP 1 1/2 or BSPP 2

# Tank support bolts - KTSBX AS

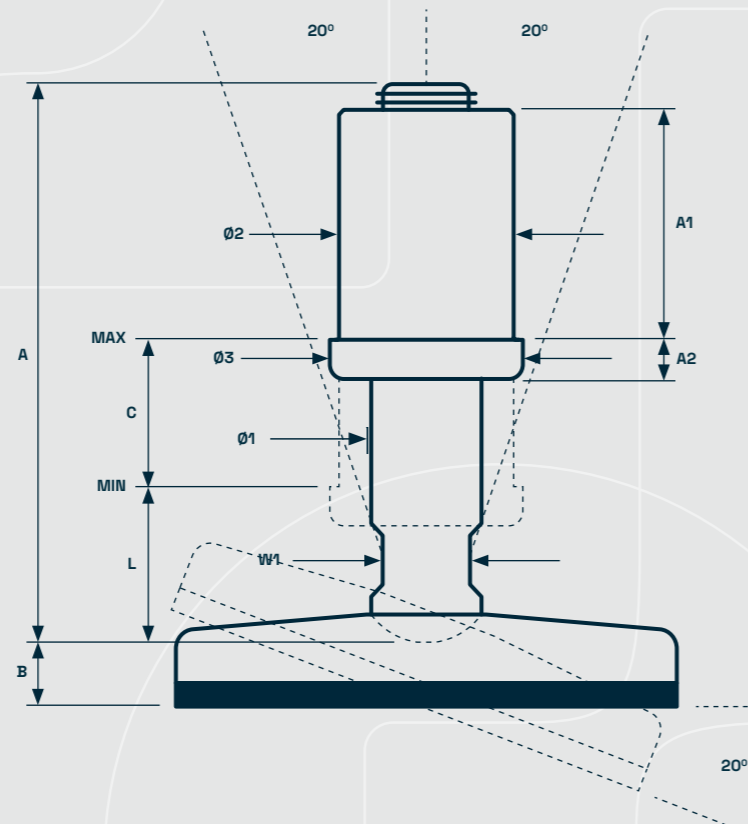
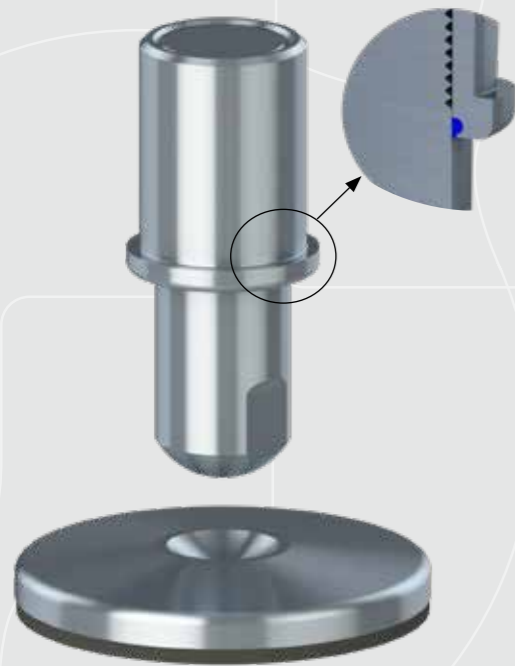
The KTSBX AS support bolt with anti-slip footplate is the optimal choice for machinery, equipment, tanks and vessels in diverse production environments where distribution of the weight load is required.

The KTSBX AS consists of a separated footplate, support bolt and welding connector. The support bolt is held in place by the diametrically centered depression on the footplate.

Additionally, the foot is sealed to the floor by the anti-slip rubber, which blocks out bacteria underneath the footplate.

Limited cleaning effort is obtained by sealing the welding connector with a fixed blue sealing ring that is detectable by scanning systems. The KTSBX AS support bolt secures your heavy machinery with a hygienic design.

Standard sizes are listed on the datasheet. Optional customized designs are available upon request.



# Tank support bolts - KTSBX AS



PRODUCT CODE **FOOT - SPINDLE - SLEEVE**

EXAMPLE KT090AS-SB12114-WCX1255

## FOOT PLATE



TYPE	DIAMETER Ø [in]	HEIGHT B [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
90AS	3.50	0.55	30.000	KT090AS
110AS	4.29	0.51	30.000	KT110AS
130AS	5.08	0.53	30.000	KT130AS
* 150AS	5.87	13,5	30.000	KT150AS

## SPINDLE



THREAD A [BSPP]	HEIGHT A [in]	MIN HEIGHT L [in]	W1 [in]	NOM LOAD COMPRESSION [N]	DIAMETER Ø1 [in]	ITEM CODE
1/2 - 14	4.72	1.30	3/4	46.654	0.87	SBX12120
3/4 - 14	4.72	1.50	1	78.309	1.18	SBX34120
* 1 - 11	5.51	1.61	1 1/4	122.967	1.38	SBX10140
* 1 1/4 - 11	5.51	1.73	1 1/2	204.021	1.65	SBX54140
* 1 1/2 - 11	5.51	51	1 3/4	270.603	1.97	SBX32140
* 2 - 11	5.91	2.01	2 1/4	431.925	2.41	SBX20150

## SLEEVE



THREAD A [BSPP]	ADJUSTMENT C [in]	HEIGHT A1 [in]	HEIGHT A2 [in]	DIAMETER Ø2 [in]	DIAMETER Ø3 [in]	ITEM CODE
1/2 - 14	1.18	2.09	0.28	1.50	1.65	WCXRU1260
3/4 - 14	1.18	1.97	0.39	1.77	1.97	WCXRU3460
1 - 11	1.18	1.97	0.39	2.17	2.36	WCXRU1060
1 1/4 - 11	1.18	2.64	0.31	2.05	2.36	WCXRU5475
1 1/2 - 11	1.18	2.64	0.31	2.44	2.72	WCXRU3275
2 - 11	1.18	2.64	0.31	2.95	3.15	WCXRU2075

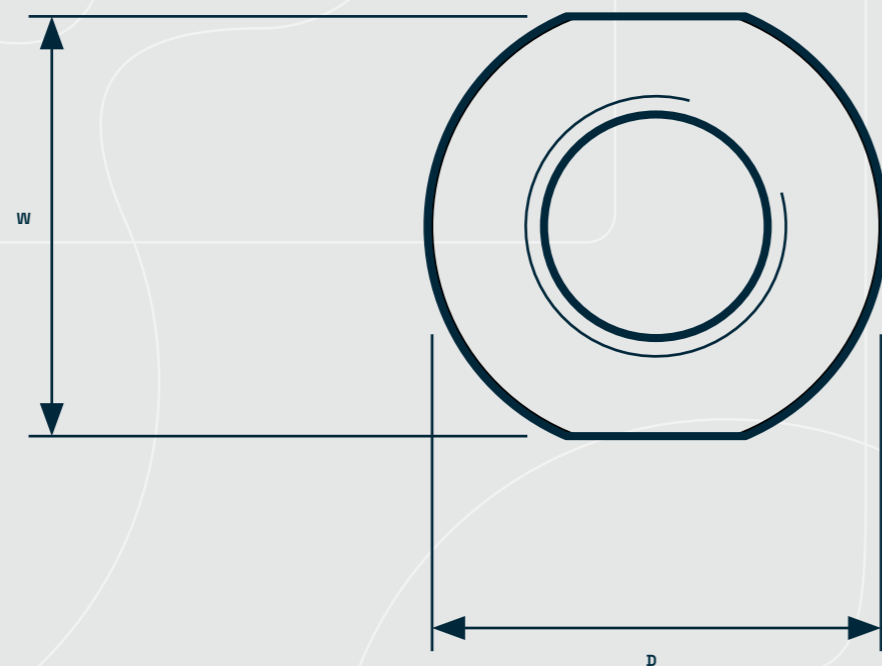
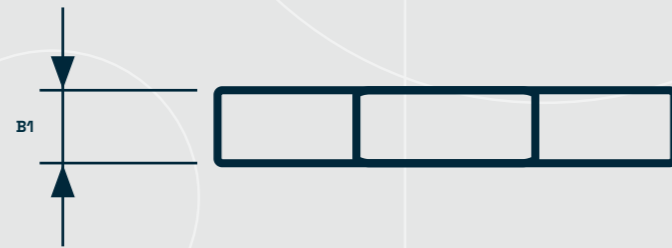
Total height = A + B  
 Minimum usable height = B + L  
 Maximum usable height = B + L + C  
 Maximum nominal load = Lowest value for footplate or spindle  
 Tolerance of total height AS = +/-0,02 in  
 AS = Anti-Slip



\* Adjust A -2 mm and B +2 mm if footplate is combined with spindle BSPP 1, BSPP 1 1/4, BSPP 1 1/2 or BSPP 2

# Accessories for tank support bolts - counter nut


This counter nut is used from above and counterlocks the spindle against the top of the welding connector.



# Accessories for tank support bolts - counter nut

## COUNTER NUT



THREAD [BSPP]	 W [in]	DIAMETER D [in]	HEIGHT B1 [in]	ITEM CODE
1/2	1 7/16	1,65	0,31	R950469
3/4	1 13/16	1,97	0,31	R950470
1	2	2,36	0,31	R950466
1 1/4	2	2,36	0,31	R950471
1 1/2	2 1/8	2,56	0,39	R950465
2	2 3/4	2,95	0,47	R900739

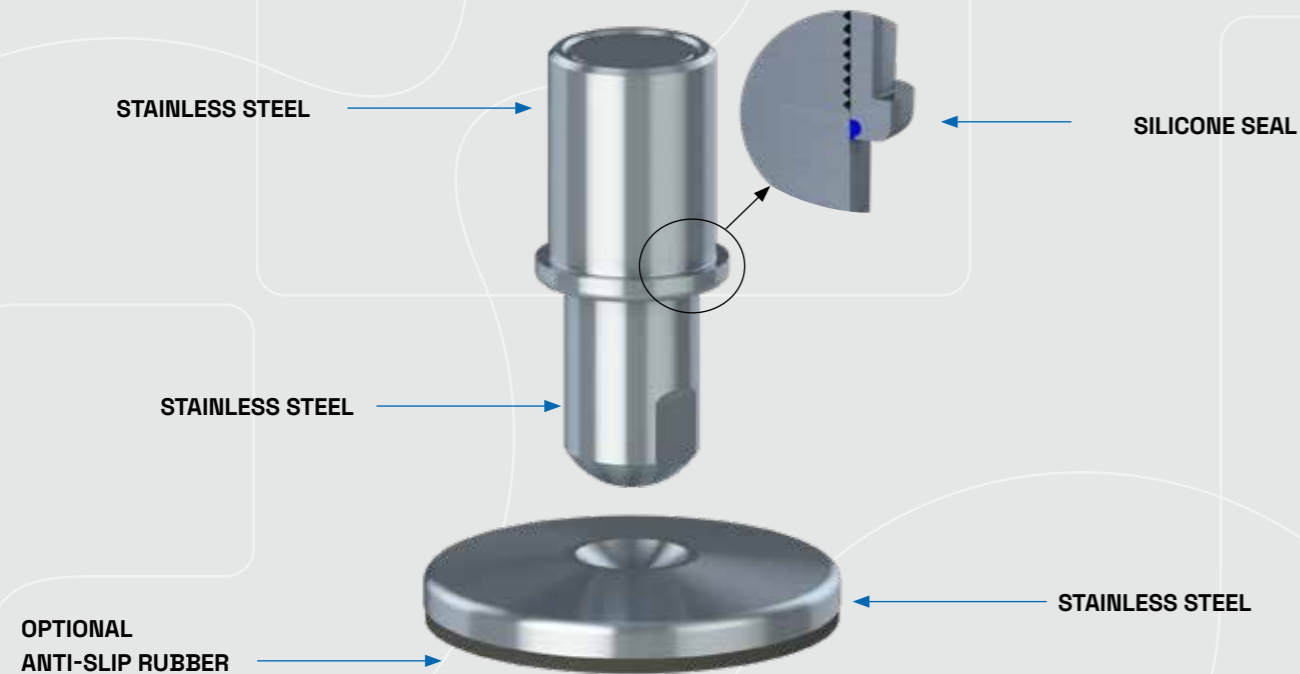
# Declaration of conformity Tank support bolts



NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI are always in compliance with currently valid requirements.

Our product category is not covered by the scope of application of the EC directive for machinery. For this reason, they cannot be furnished with the CE marking in accordance with the EC directive for machinery.

Furthermore, we declare that the listed materials applied in our products comply with the demands for materials used within the food and pharmaceutical industries.



# Declaration of conformity Tank support bolts

## THE DECLARATION OF MATERIALS CONCERNS THE FOLLOWING APPLICATIONS

### Application:

Material type:

Compliance:

### Steel spindle and sleeve

Stainless steel, AISI 304/A2 (X5CrNi18-10), Euronorm 1.4301.

By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2), Euronorm 1.4401  
EN 10204 Type 2.2. NGI A/S states that the product is in compliance with the order with indication of results of nonspecific inspection.

NGI has got EN 10204 type 3.1 inspection CERTIFIEDs on all material used in the products but not specified for each foot.

In the directive 94/9/EC, Equipment for potentially explosive atmospheres, also known as the ATEX directive, equipment without its own potential source of ignition are not covered, nor shall be marked according to the directive. However, NGI leveling feet are suitable for use in all ATEX zones.

### Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Load:

### Anti slip

NBR By request EPDM

Non-conductive

High to commonly applied cleaning agents

Black

Shore A 80 ± 5

Min -20 °C to Max 110 °C

Low load capacity

### Application:

Material type:

Electrically:

Chemical resistance:

Color:

Hardness:

Range of temperature:

Storage:

Compliance:

RoHS 2:

### Sealing ring between steel components for NGI's machine feet.

Silicon rubber

Non-conductive

High to commonly applied cleaning agents

RAL 5010 (blue)

Shore A 60 ± 5

Min -60°C to Max +200 °C

According to ISO 2230

FDA: Guideline 21 CFR 177.2600

In accordance with the Directive 2011/65/EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL.

GMP: Good manufacturing process in accordance with 2023/2006 EC.

# NGI range of accessories

for leveling feet and bearing houses



NGI is able to deliver all necessary accessories which ensures a quick and easy installation of hygienic components.

In addition to supplying standardized accessories we are also able to supply customized accessories.



# Accessories

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot, bearing house and caster.

In addition to supplying standardized accessories we are also able to supply customized accessories.



## CERTIFIED HYGIENIC DOME-HEADED NUT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in
- Are delivered with all certified hygienic machine feet with floor fixing



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## CERTIFIED HYGIENIC TOP COVER

- Top cover with blue sealing detectable by scanning systems
- Ensures hygienic covering of the exposed top thread
- Minimum cleaning effort due to the self-draining design
- Available in standardized and customized dimensions

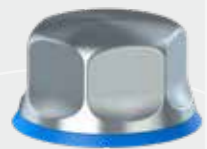
312



## CERTIFIED HYGIENIC FLANGES & ADAPTOR

- Add-on for the XHFV & ZHFVJ system
- Adaptor converts the size and type of the thread and extends the sleeve. It has blue sealings detectable by scanning systems.
- Flanges are squared or round and installed by bolting or welding. They are available in a large variety of sizes.

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## CERTIFIED HYGIENIC LOW-HEADED NUT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in



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## NUTS & WASHERS

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available

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## CERTIFIED HYGIENIC BOLT

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm RA
- Available in sizes 1/4 in - 1 in



310



## DOME-HEADED NUTS

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available

320

# Accessories

NGI is able to deliver all necessary accessories, which ensures a quick and easy installation of the leveling foot, bearing house and caster. In addition to supplying standardized accessories we are also able to supply customized accessories.



## TRIPOD SUPPORT

- Conveyor support tripod
- Supports five tube diameters from Ø38.1 to Ø60.3
- Select three optional M16 leveling feet
- NGI recommends leveling foot M050-16-070

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## WELDING PLATES

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available

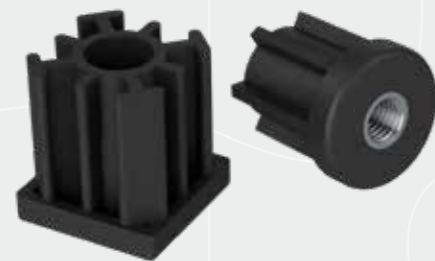
322



## NGI WRENCHES

XHJSE machine feet need three different wrenches for installation. NGI wrenches are laser cut and designed to fit NGI machine feet.

330



## PLASTIC BUSHINGS

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available

324



## HILTI TOOLS

Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full-scale system testing.

332



## BIPOD SUPPORT

- Conveyor support bipod
- Supports five tube diameters from Ø38.1 to Ø60.3
- Select two optional M16 leveling feet
- NGI recommends leveling foot M050-16-070

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## ANCHORS

- Stainless steel A4
- PROFIS software
- Base materials: concrete (cracked), concrete (uncracked), masonry (solid)

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# Certified hygienic nuts - NDXH



Certified hygienic



Minimized cleaning time



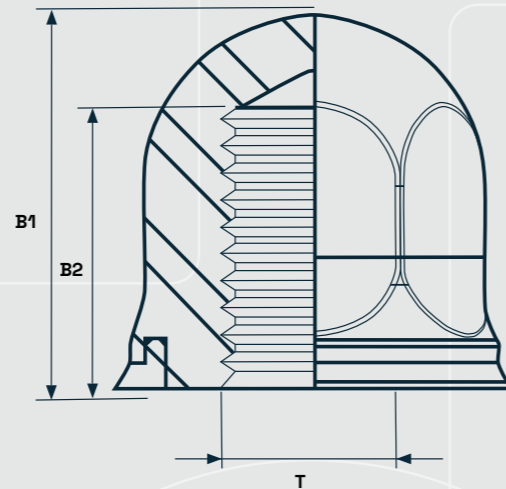
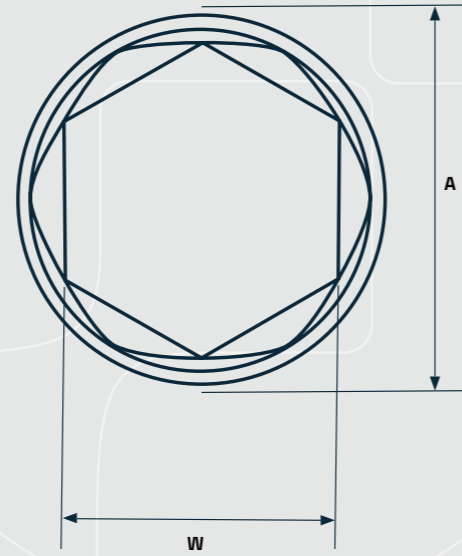
Minimized water usage

Certified hygienic nuts with blue NBR rubber seals is the right choice of nuts to be used on all machinery in all certified hygienic wash-down environments. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly. Round-headed and self-draining surfaces with a maximal roughness of 0.8 µm Ra.

The design of the nuts does not deviate from the sizes of current standard nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard nuts. NGI's certified hygienic nuts are used for floor-mounting of certified hygienic leveling feet in order to ensure compliance with current legislation towards hygienic design.

The NDXH is used when the length of exposed bolt thread can vary.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M6-M24



# Certified hygienic nuts - NDXH

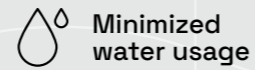
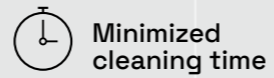


## CERTIFIED HYGIENIC NUTS



THREAD T	TIGHTENING TORQUE [Nm]	TOTAL HEIGHT B1 [in]	THREAD LENGTH B2 [in]	W [in]	OUTER DIAMETER A [in]	ITEM CODE
1/4	8.2	0.59	0.47	7/16	0.58	NDXH 1/4
5/16	17.0	0.67	0.55	1/2	0.68	NDXH 5/16
3/8	30.0	0.75	0.59	9/16	0.78	NDXH 3/8
7/16	47.0	0.85	0.69	11/16	0.92	NDXH 7/16
1/2	71.0	0.98	0.79	3/4	1.06	NDXH 1/2
9/16	102.0	1.10	0.87	13/16	1.18	NDXH 9/16
5/8	139.0	1.24	1.02	15/16	1.33	NDXH 5/8
3/4	245.0	1.46	1.18	11/8	1.57	NDXH 3/4
7/8	389.0	1.67	1.34	1 5/16	1.82	NDXH 7/8
1	572.0	1.89	1.54	1 1/2	2.08	NDXH 1

# Certified hygienic nuts - NLXH

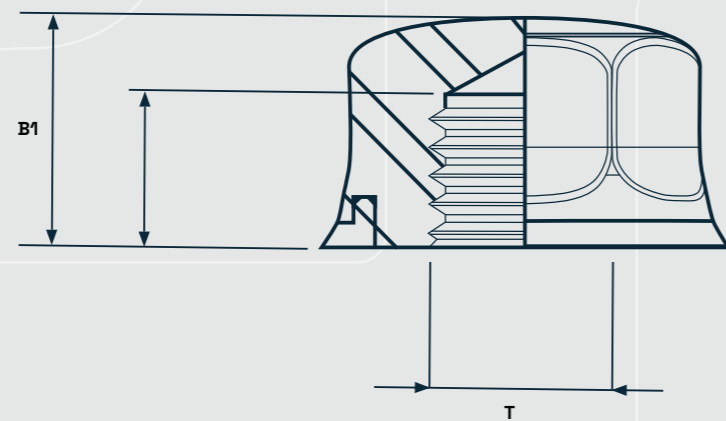
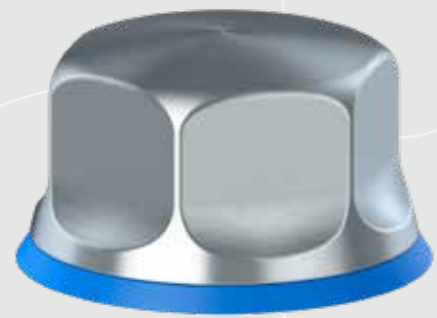
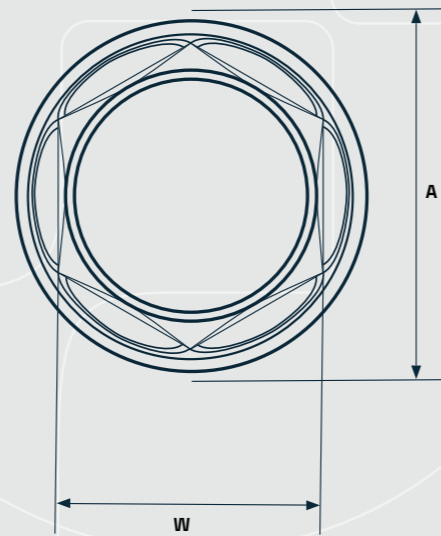


Certified hygienic nuts with blue NBR rubber seals is the right choice of nuts to be used on all machinery in all certified hygienic wash-down environments. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly. Round-headed and self-draining surfaces with a maximal roughness of 0.8 µm Ra.

The design of the nuts does not deviate from the sizes of current standard nuts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard nuts. NGI's certified hygienic nuts are used for floor-mounting of certified hygienic leveling feet in order to ensure compliance with current legislation towards hygienic design.

The NLXH is used when the length of exposed bolt thread is adapted to the nut's B2 measurement.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24



# Certified hygienic nuts - NLXH



## CERTIFIED HYGIENIC NUTS



THREAD T	TIGHTENING TORQUE [Nm]	TOTAL HEIGHT B1 [in]	THREAD LENGTH B2 [in]	W [in]	OUTER DIAMETER A [in]	ITEM CODE
1/4	8.2	0.33	0.24	7/16	0.58	NLXH 1/4
5/16	17.0	0.39	0.28	1/2	0.68	NLXH 5/16
3/8	30.0	0.47	0.31	9/16	0.78	NLXH 3/8
7/16	47.0	0.51	0.33	11/16	0.92	NLXH 7/16
1/2	71.0	0.55	0.35	3/4	1.06	NLXH 1/2
9/16	102.0	0.61	0.39	13/16	1.18	NLXH 9/16
5/8	139.0	0.67	0.43	15/16	1.33	NLXH 5/8
3/4	245.0	0.75	0.47	11/8	1.57	NLXH 3/4
7/8	389.0	0.83	0.51	1 5/16	1.82	NLXH 7/8
1	572.0	0.91	0.55	1 1/2	2.08	NLXH 1

# Certified hygienic bolts - BXH



Certified hygienic



Minimized cleaning time

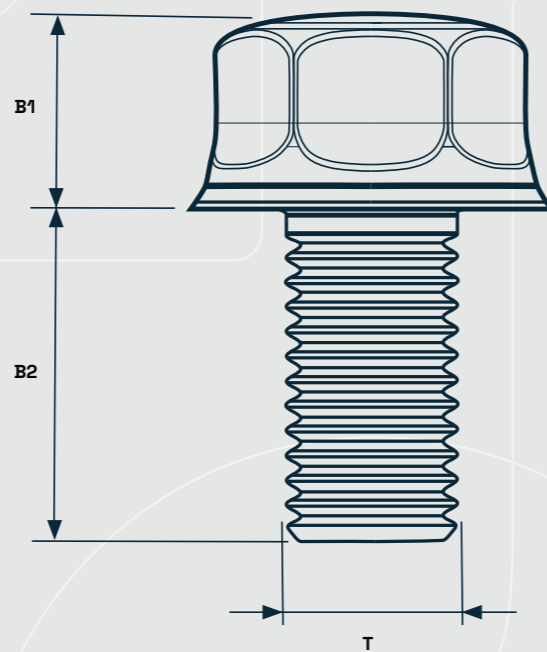
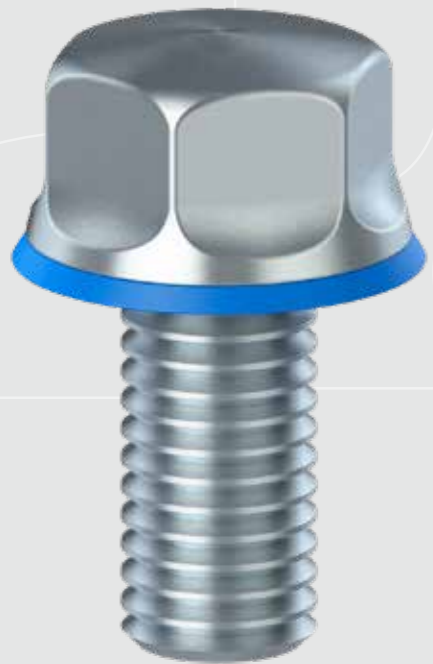
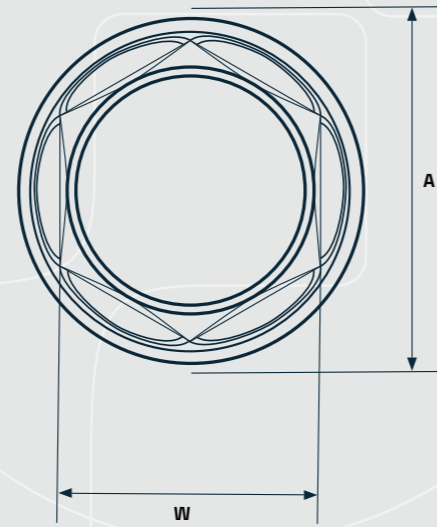


Minimized water usage

NGI is now able to offer certified hygienic bolts with blue NBR rubber seals. The NBR rubber seal blocks out water and bacteria and also prevents a non-hygienic metal-to-metal assembly.

The bolts have self-draining surfaces with a maximal roughness of 0.8 µm Ra. The design of the bolts does not deviate from the sizes of current standard bolts. Therefore, wrench sizes, thread heights etc. all remains the same making it very easy to upgrade and replace standard bolts. This is the right choice of bolts to be used on all machinery in all certified hygienic wash-down environments.

- Certified in accordance with 3-A (RPSCQC)
- Certified in accordance with EHEDG hygienic standard TYPE EL - CLASS I AUX
- Minimizes cleaning time and water consumption
- Surfaces with a maximal roughness of 0,8 µm Ra
- Available in sizes M5-M24



# Certified hygienic bolts - BXH



## CERTIFIED HYGIENIC BOLTS



THREAD T	TIGHTENING TORQUE [Nm]	HEAD HEIGHT B1 [in]	THREAD LENGTH B2 [in]	W [in]	OUTER DIAMETER A [in]	ITEM CODE
1/4	8.2	0.33	1/2, 3/4, 1.5/4, 3/2	7/16	0.58	BXH 1/4
5/16	17.0	0.39	3/4, 1.5/4, 3/2	1/2	0.68	BXH 5/16
3/8	30.0	0.47	3/4, 1.5/4, 3/2, 2	9/16	0.78	BXH 3/8
7/16	47.0	0.51	xx*)	11/16	0.92	BXH 7/16
1/2	71.0	0.55	1.5/4, 3/2, 7/4, 2, 5/2	3/4	1.06	BXH 1/2
9/16	102.0	0.61	xx*)	13/16	1.18	BXH 9/16
5/8	139.0	0.67	xx*)	15/16	1.33	BXH 5/8
3/4	245.0	0.75	xx*)	11/8	1.57	BXH 3/4
7/8	389.0	0.83	xx*)	1 5/16	1.82	BXH 7/8
1	572.0	0.91	xx*)	1 1/2	2.08	BXH 1



\*) M16-M24 available xx length upon request.

# Certified hygienic top cover - THOX



Certified hygienic



Minimized cleaning time



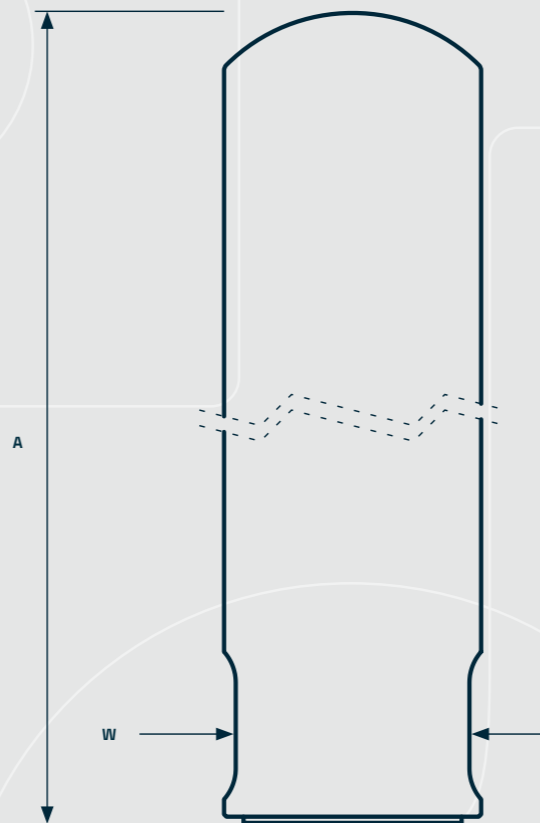
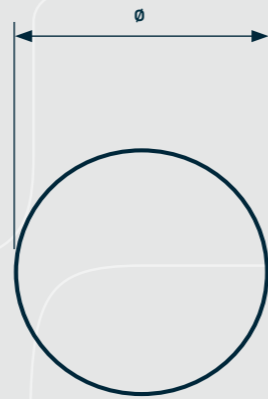
Minimized water usage

The top cover is designed to be used in situations where the top of the thread is exposed, which compromises the hygienic performance and certification of the leveling foot.

By applying the top cover the exposed thread is hygienically covered. The top cover can also function as counter nut.

The top cover is supplied with a blue sealing detectable by scanning systems and minimum cleaning effort is obtained due to the self-draining design.

Available in standardized and customized dimensions.



ITEM CODE

# Certified hygienic top cover - THOX

THOX



THREAD	W [in]	DIAMETER Ø [in]	HEIGHT A [in]
5/8-11	7/8	0.98	3.94
3/4-10	1	1.17	3.94
1-8	5/4	1.36	3.94
1 1/4-7	1 1/2	1.56	3.94

THOX5839

THOX3439

THOX1039

THOX5439



# Certified hygienic flanges - WFRX + WFSX

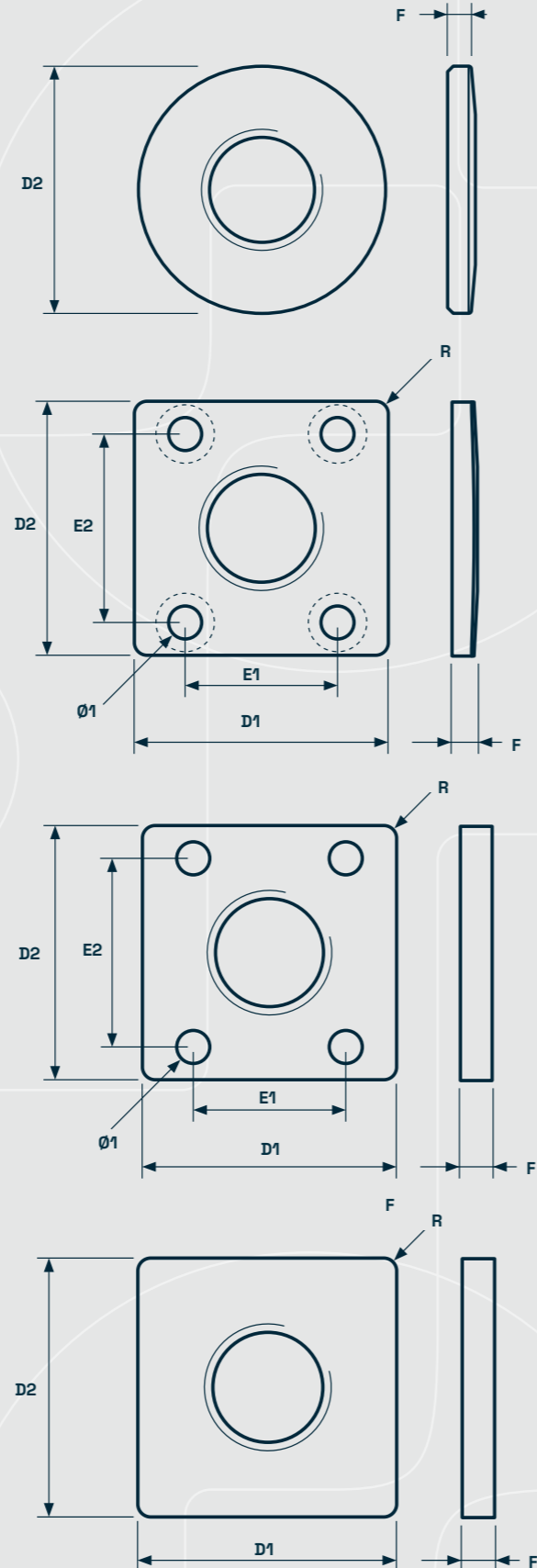
-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The flange is used when mounting the XHFV leveling feet into the machine or equipment.

Machinery and equipment requires different mounting and therefore the flange is available in several variations.

- Squared
- Round
- Large variety of sizes
- Install by bolting or welding

Customized sizes and shapes can be supplied by request.



# Certified hygienic flanges - WFRX + WFSX



## ROUND - WELDING



CERTIFIED	DIAMETER Ø [in]	THICKNESS F [in]	THREAD	ITEM CODE
YES	2.37	0.39	M44x2.0	WFRX060
YES	2.76	0.39	M44x2.0	WFRX070
YES	3.00	0.39	M44x2.0	WFRX076
YES	3.50	0.39	M44x2.0	WFRX089

## SQUARED - BOLTING



CERTIFIED	LENGHT D1 [in]	WIDTH D2 [in]	THICKNESS F [in]	DISTANCE E1 [in]	DISTANCE E2 [in]	RADIUS R [in]	HOLE Ø1 [in]	THREAD	ITEM CODE
YES	3.94	3.94	0.39	2.92	2.36	0.20	0.51	M44x2.0	WFSX10010746013
YES	3.94	3.94	0.39	2.92	2.92	0.20	0.35	M44x2.0	WFSX10010747409

## SQUARED - BOLTING



CERTIFIED	LENGHT D1 [in]	WIDTH D2 [in]	THICKNESS F [in]	DISTANCE E1 [in]	DISTANCE E2 [in]	RADIUS R [in]	HOLE Ø1 [in]	THREAD	ITEM CODE
NO	3.94	3.94	0.39	2.92	2.36	0.51	0.20	M44x2.0	WFSF10010746013
NO	3.94	3.94	0.39	2.92	2.92	0.35	0.20	M44x2.0	WFSF10010747409

## SQUARED - WELDING



CERTIFIED	LENGHT D1 [in]	WIDTH D2 [in]	THICKNESS F [in]	RADIUS R [in]	THREAD	ITEM CODE
NO	3.15	3.15	0.39	0.20	M44X2.0	WFSF080
NO	3.94	3.94	0.39	0.20	M44X2.0	WFSF100

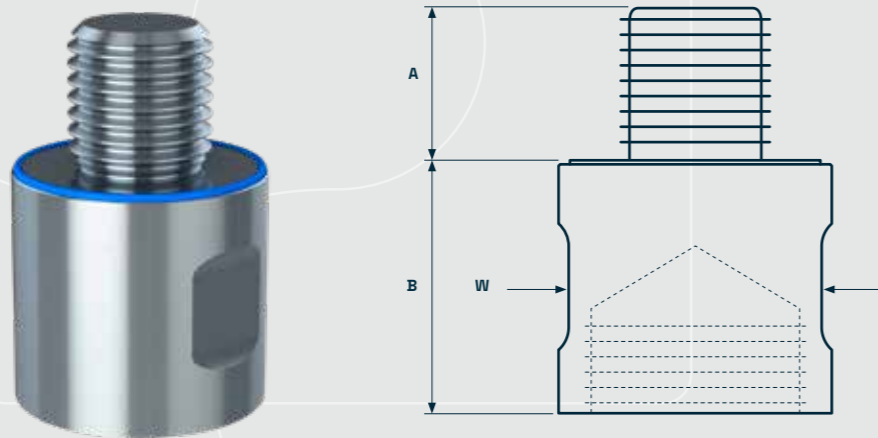
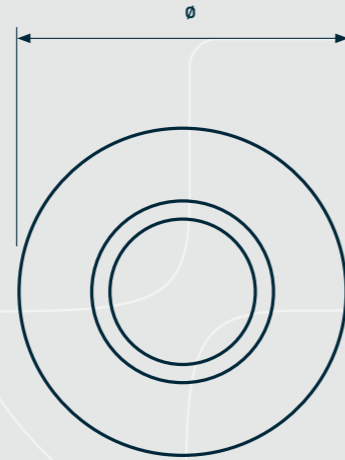


Maximum nominal load for shown flanges 95,500 N  
Squared hygienic flanges must be installed with certified washers and bolts.  
Flat flanges are not 3-A-certified.

# Certified hygienic adaptor - AX

-  Certified hygienic
-  Minimized cleaning time
-  Minimized water usage

The thread adaptor is an add-on for the XHFV & ZHFVJ system. It converts the size and type of the thread and extends the sleeve. Furthermore, it is equipped with blue sealings detectable by scanning systems. Available in customized sizes.




# Certified hygienic adaptor - AX



## ADAPTOR



THREAD	 W [in]	DIAMETER Ø [in]	HEIGHT A [in]	HEIGHT B [in]	ITEM CODE
M20	1.97	2.15	0.79	1.97	AX2050
M24	1.97	2.15	0.94	1.97	AX2450
M30	1.97	2.15	1.18	1.97	AX3050
M36	1.97	2.15	1.42	1.97	AX3650
M42	1.97	2.15	1.65	1.97	AX4250
M44x2	1.97	2.15	0.39	1.97	AX4450

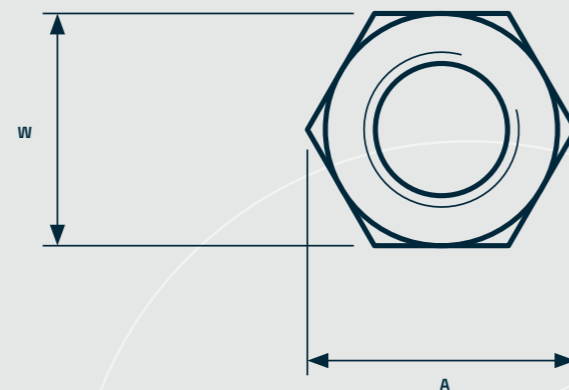
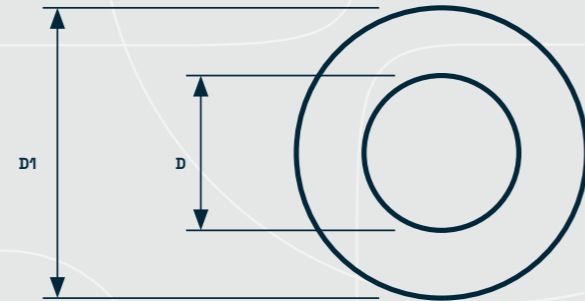
THREAD [UNC]	 W [in]	DIAMETER Ø [in]	HEIGHT A [in]	HEIGHT B [in]	ITEM CODE
3/4-10	1.97	2.15	0.79	1.97	AX3420
1-8	1.97	2.15	0.94	1.97	AX1020
1 1/4-7	1.97	2.15	1.18	1.97	AX5420
1 1/2-6	1.97	2.15	1.42	1.97	AX3220
1 3/4-5	1.97	2.15	1.65	1.97	AX7420





# Accessories - nuts & washers

- Stainless steel AISI 304/A2, 1.4301
- Standard nuts (DIN 934)
- Standard counter nuts (DIN 439)
- Standard flat washers (DIN 125)
- Standard fender washers (DIN 9010)
- All dimensions available



# Accessories - nuts & washers

## HEX NUTS DIN 934



THREAD	W [in]	WIDTH A [in]	HEIGHT B2 [in]	ITEM CODE
3/8-16	9/16	0.43	0.33	DIN 934 3/8-16 UNC
1/2-13	3/4	0.58	0.44	DIN 934 1/2-13 UNC
5/8-11	15/16	0.72	0.55	DIN 934 5/8-11 UNC
3/4-10	1 1/8	0.87	0.64	DIN 934 3/4-10 UNC
7/8-9	1 5/16	1.01	0.75	DIN 934 7/8-9 UNC
1-8	1 1/2	1.15	0.86	DIN 934 1-8 UNC
1 1/4-7	1 7/8	1.44	1.06	DIN 934 1 1/4-7 UNC

## COUNTER NUTS DIN 439B



THREAD	W [in]	WIDTH A [in]	HEIGHT B2 [in]	ITEM CODE
3/8-16	9/16	0.43	0.19	DIN 439B 3/8-16 UNC
1/2-13	3/4	0.58	0.25	DIN 439B 1/2-13 UNC
5/8-11	15/16	0.72	0.31	DIN 439B 5/8-11 UNC
3/4-10	1 1/8	0.87	0.38	DIN 439B 3/4-10 UNC
7/8-9	1 5/16	1.01	0.44	DIN 439B 7/8-9 UNC
1-8	1 1/2	1.15	0.5	DIN 439B 1-8 UNC
1 1/4-7	1 7/8	1.44	0.63	DIN 439B 1 1/4-7 UNC

## FLAT WASHERS DIN 125A



INNER DIAMETER [UNC]	INNER DIAMETER D [in]	OUTER DIAMETER D1 [in]	HEIGHT B1 [in]	ITEM CODE
3/8	0.39	0.75	0.07	DIN 125A 3/8 UNC
1/2	0.52	1	0.09	DIN 125A 1/2 UNC
5/8	0.65	1.25	0.12	DIN 125A 5/8 UNC
3/4	0.78	1.5	0.13	DIN 125A 3/4 UNC
1	1.03	1.88	0.16	DIN 125A 1 UNC
1 1/4	1.28	2.38	0.18	DIN 125A 1 1/4 UNC

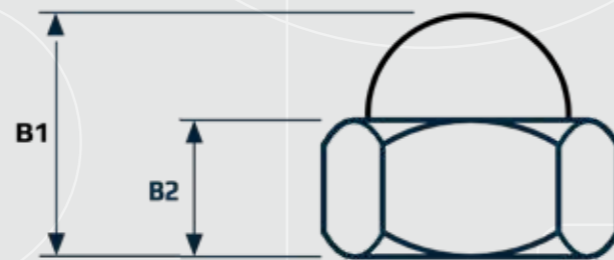
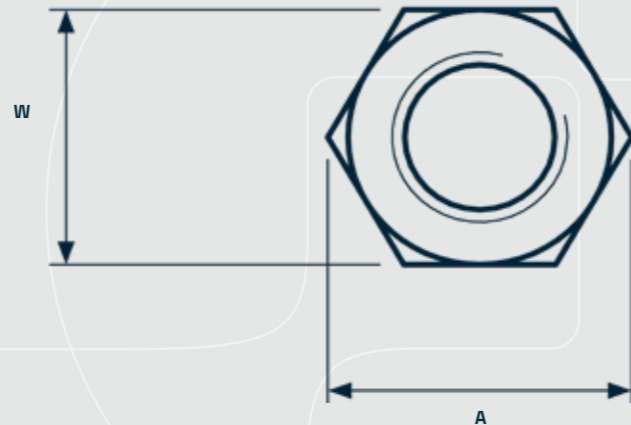
## FENDER WASHERS DIN 9010



INNER DIAMETER [UNC]	INNER DIAMETER D [in]	OUTER DIAMETER D1 [in]	HEIGHT B1 [in]	ITEM CODE
3/8	0.39	1.38	0.09	DIN 9010 3/8 UNC
1/2	0.52	1.63	0.12	DIN 9010 1/2 UNC
5/8	0.65	2	0.13	DIN 9010 5/8 UNC
3/4	0.78	2.25	0.14	DIN 9010 3/4 UNC

# Accessories for leveling feet - dome-headed nuts

- Stainless steel AISI 304/A2, 1.4301
- Standard dome-headed nuts (DIN 1587 A2)
- All dimensions available



# Accessories for leveling feet - dome-headed nuts

**DOME-HEADED  
NUTS**  
DIN 1587 A2

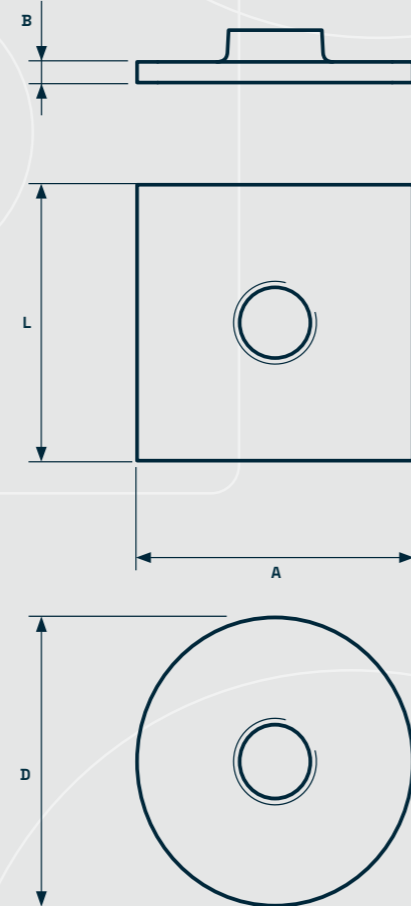
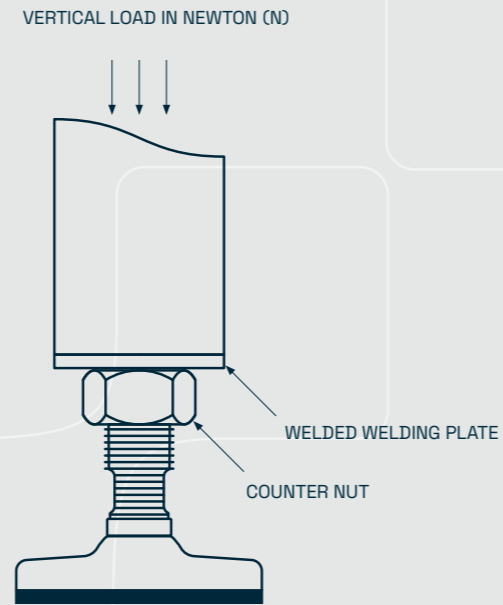


THREAD	DIN NORM	TOTAL HEIGHT B1 [mm]	WRENCH HEIGHT B2 [mm]	W [mm]	OUTER DIAMETER A [mm]	ITEM CODE
M10	DIN 1587 A2	17	8	17	18.90	DIN1587A2M10
M12	DIN 1587 A2	19	10	19	21.10	DIN1587A2M12
M16	DIN 1587 A2	24	13	24	26.75	DIN1587A2M16
M20	DIN 1587 A2	34	16	30	33.53	DIN1587A2M20
M24	DIN 1587 A2	42	19	36	39.98	DIN1587A2M24

# Accessories - welding plates

The welding plates provide complete sealing of the tube after welding.  
The welding plates are available for rectangular and round tubes.

- Stainless steel AISI 304/A2, 1.4301
- Squared welding plates
- Round welding plates
- All dimensions available



# Accessories - welding plates

PRODUCT CODE: EXAMPLE      TYPE - THREAD - PLATE: WPS - 38 - 2 X 2

## SQUARE



THREAD [UNC]	3/8	1/2	5/8	3/4	1
PLATE SIZE L x A [in]	[N]	[N]	[N]	[N]	[N]
1,5 x 1,5	2.500	3.100	5.600	10.500	-
2 x 2	1.800	2.400	6.000	8.500	11.500
3 x 3	-	-	3.600	6.400	9.000
4 x 4	-	-	3.000	4.200	7.200
THICKNESS B [in]	0,11		0,15		

## RECTANGLE



THREAD [UNC]	3/8	1/2	5/8	3/4	1
PLATE SIZE L x A [in]	[N]	[N]	[N]	[N]	[N]
4 x 2	-	-	3.800	6.800	7.900
THICKNESS B [in]	0,11		0,15		

## ROUND



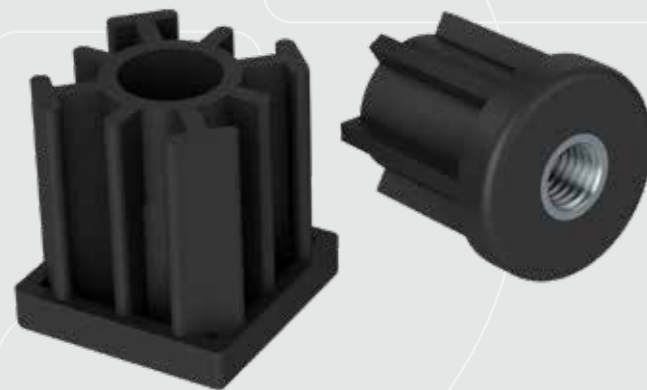
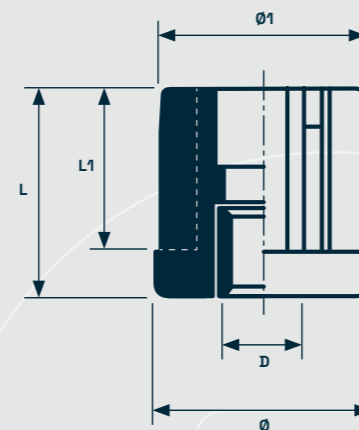
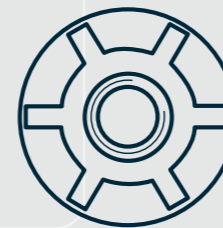
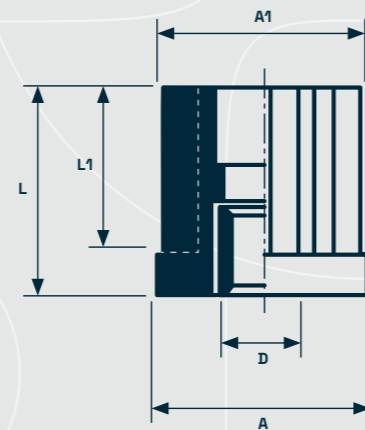
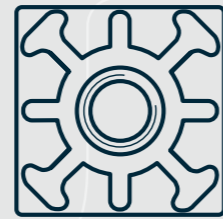
THREAD [UNC]	3/8	1/2	5/8	3/4	1
PLATE SIZE L x A [in]	[N]	[N]	[N]	[N]	[N]
1,29	3.600	4.650	-	-	-
1,49	3.200	3.800	6.500	10.600	-
1,57	3.100	3.600	5.500	10.000	-
1,69	3.000	3.400	4.800	8.500	-
1,96	2.300	2.900	6.800	10.500	14.000
2,36	-	-	5.800	7.000	10.000
THICKNESS B [in]	0,11		0,15		



Values are based on 3D-Cad-Cosmos calculation, combined with practical test samples.  
Applied safety factor: 1,5

# Accessories - plastic bushings

- Squared plastic bushings
- Round plastic bushings
- Many dimensions available



# Accessories - plastic bushings

## SQUARE



THREAD D	EXTERNAL A [in]	INTERNAL A1 [in]	HEIGHT L [in]	HEIGHT L1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
1/2-13	1.5	1.46	1.69	1.38	5.000	PP1.5-1/2 UNC 0.02
1/2-13	2	1.85	2.17	1.77	5.000	PP2-1/2 UNC 0.075
5/8-11	1.5	1.46	1.69	1.38	5.000	PP1.5-5/8 UNC 0.02
5/8-11	2	1.85	2.17	1.77	5.000	PP2-5/8 UNC 0.075
3/4-10	1.5	1.46	1.69	1.38	5.000	PP1.5-3/4 UNC 0.02
3/4-10	2	1.85	2.17	1.77	5.000	PP2-3/4 UNC 0.075

## ROUND



THREAD D	EXTERNAL Ø [in]	INTERNAL Ø1 [in]	HEIGHT L [in]	HEIGHT L1 [in]	NOM LOAD COMPRESSION [N]	ITEM CODE
1/2-13	1.5	1.40	1.73	1.38	5.000	PP1.5-1/2 UNC 0.05
1/2-13	2	1.91	2.20	1.81	5.000	PP2-1/2 UNC 0.05
5/8-11	1.5	1.40	1.73	1.38	5.000	PP1.5-5/8 UNC 0.05
5/8-11	2	1.91	2.20	1.81	5.000	PP2-5/8 UNC 0.05
3/4-10	1.5	1.40	1.73	1.38	5.000	PP1.5-3/4 UNC 0.05
3/4-10	2	1.91	2.20	1.81	5.000	PP2-3/4 UNC 0.05

# Accessories - bipod support

The bipod plastic base accepts five different standard tube sizes from Ø38.1 to Ø60.3 The tube leg is fixed with two bolts with spacers to ensure correct tightening. Select two optional M16 leveling feet. NGI recommends leveling foot M050-16-070.

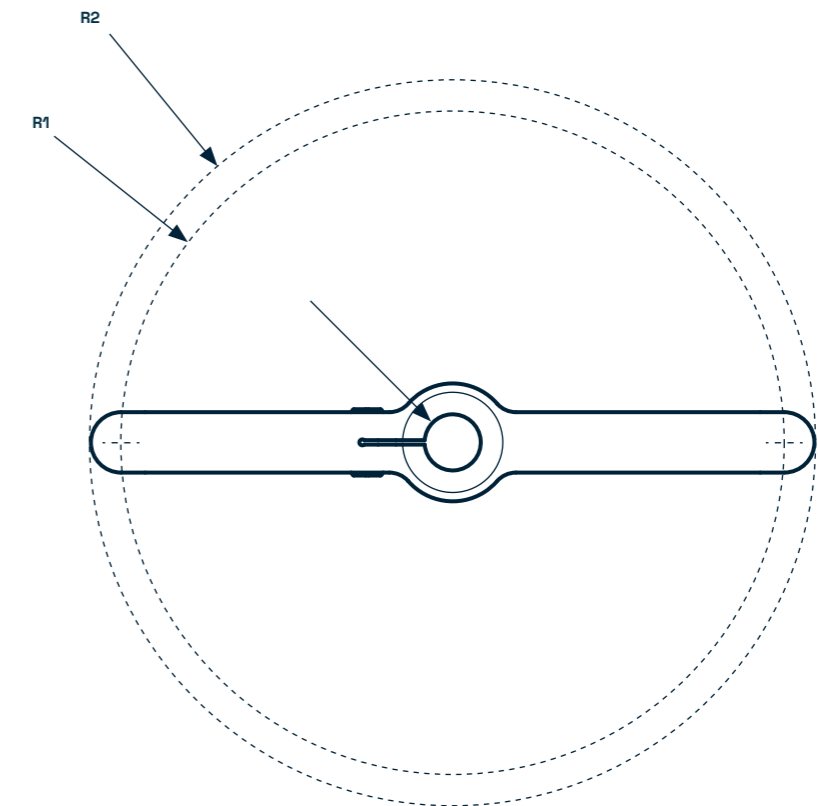
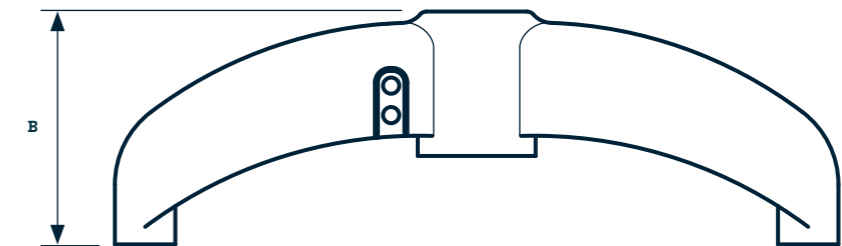


# Accessories - bipod support

## BIPOD SUPPORT



THREAD	DIAMETER D [in]	MAX LOAD Ø1 [N]	DIAMETER D1 [in]	LENGTH A [in]	LENGTH B [in]	DIAMETER M [in]	R <sub>1</sub> [in]	R <sub>2</sub> [in]	ITEM CODE
5/8-11	1.5	9.600	3.15	3.15	5.71	0.63	8.82	9.65	2SB381
5/8-11	1.67	9.600	3.15	3.15	5.71	0.63	8.82	9.65	2SB424
5/8-11	1.90	9.600	3.15	3.15	5.71	0.63	8.82	9.65	2SB483
5/8-11	1.99	9.600	3.15	3.15	5.71	0.63	8.82	9.65	2SB506
5/8-11	2.37	9.600	3.15	3.15	5.71	0.63	8.82	9.65	2SB603




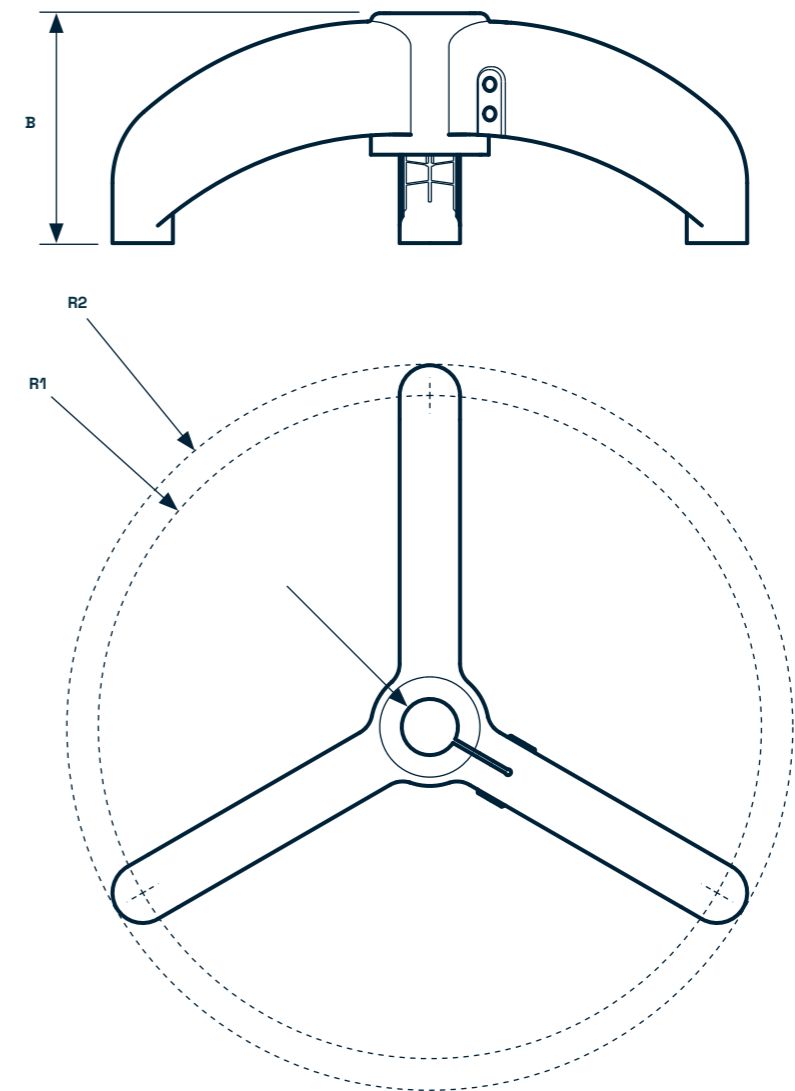
# Accessories - tripod support

The tripod plastic base accepts five different standard tube sizes from Ø38.1 to Ø60.3  
The tube leg is fixed with two bolts with spacers to ensure correct tightening.  
Select three optional M16 leveling feet.  
NGI recommends leveling foot M050-16-070.



# Accessories - tripod support

TRIPOD SUPPORT	THREAD	DIAMETER D [in]	MAX LOAD Ø1 [N]	DIAMETER D1 [in]	LENGTH A [in]	LENGTH B [in]	DIAMETER [in]	R <sub>1</sub> [in]	R <sub>2</sub> [in]	ITEM CODE
	5/8-11	1.5	10.000	3.15	3.15	5,71	0.63	8.82	9.65	3SB381
	5/8-11	1.67	10.000	3.15	3.15	5,71	0.63	8.82	9.65	3SB424
	5/8-11	1.90	10.000	3.15	3.15	5,71	0.63	8.82	9.65	3SB483
	5/8-11	1.99	10.000	3.15	3.15	5,71	0.63	8.82	9.65	3SB506
	5/8-11	2.37	10.000	3.15	3.15	5,71	0.63	8.82	9.65	3SB603



# Accessories - NGI wrenches

XHJSE machine feet need three different wrenches for installation.  
NGI wrenches are laser cut and designed to fit NGI machine feet.

Please check the selection guide to see which sizes are needed for your respective model.

- W1: Spindle
- W2: Sleeve
- W3: Counter nut



# Accessories - NGI wrenches

## NGI WRENCHES



W [mm]	LENGTH L [mm]	THICKNESS C [mm]	HEAD WIDTH B [mm]	ITEM CODE
22	195	10	46	WR22
27	240	10	56	WR27
32	274	10	67	WR32
36	303	10	74	WR36
41	343	10	85	WR41
50	413	10	102	WR50
55	457	10	113	WR55
60	492	10	122	WR60
65	528	10	132	WR65
75	608	10	152	WR75
80	644	10	162	WR80
85	690	10	174	WR85
90	690	10	174	WR90
95	850	10	195	WR95
100	1000	10	195	WR100

## SELECTION GUIDE

SPINDLE SIZE	W1 [mm]	W2 [mm]	W3 [mm]
M30	22	36	50
M36	27	41	50
M42	32	50	55
M48	36	55	60
M65S/M56L	41	65	85
M64	50	75	85
M72	55	80	95
M80	65	90	95
M90	75	100	95

# Accessories - HILTI tools

Hilti's seismic research includes detailed investigation of product performance under simulated seismic conditions and full scale system testing.

This multilevel approach helps to capture the complexity of fastening systems behavior under seismic conditions. Earthquakes can affect a wide range of construction products that Hilti supplies anchors for and NGI are confident that they are the best on the market today. Hilti is pioneering research to extensively test systems for earthquake performance in order to support their customers with recommendations for design applications.



# Accessories - HILTI tools

## PISTOL



HILTI ITEM CODE	DESCRIPTION	ITEM CODE
Kit HDM 500	Injectable mortar dispenser	KitHDM500
Kit HDM 500-A22	Cordless electric dispenser	KitHDE500-A22

## MORTAR



HILTI ITEM CODE	DESCRIPTION	AMOUNT	ITEM CODE
HIT-HY-200-A	Injectable mortar	330ml	HIT-HY-200-A

## STANDARD DRILL BIT



HILTI ITEM CODE	DIMENSIONS	WORKING LENGTH	USE FOR
TE-CX 12/22	12X220	150	M10
TE-CX 14/22	14X220	150	M12
TE-CX 18/32	18X320	250	M16
TE-CX 22/48	22X480	410	M20
TE-CX 28/48	28X480	410	M24

## SAFE-SET DRILL BIT



HILTI ITEM CODE	DIMENSIONS	WORKING LENGTH	USE FOR
TE-CD 12/33	12X330	240	M10
TE-CD 14/37	14X370	240	M12
TE-CD 18/37	18X370	240	M16
TE-YD 22/59	22X590	400	M20
TE-YD 28/59	28X590	400	M24

## INSTALLATION PACK SMALL

FOOTPLATE	ANCHOR SIZE [Metric]	BOLT TYPE	QTY. ANCHORS, DOME-HEADED NUTS & WASHERS	ITEM CODE
HXJCFE150(S)/XHJCFE150(S)	M12x155	HIT-Z-R	4	HIT-Z-R-4M12
HXJE150(S)/XHJSE150(S)	M10x160	HIT-Z-R	3	HIT-Z-R-3M10
HXJE200(S)/XHJSE200(S)	M12x155	HIT-Z-R	4	HIT-Z-R-4M12
HXJE250(S)/XHJSE250(S)	M16x250	HIT-Z-R	4	HIT-Z-R-4M16

## LARGE

HXJCFE300(L)/XHJCFE300(L)	M16x240	HIT-Z-R	4	HIT-Z-R-4M16
HXJE250(L)/XHJSE250(L)	M16x240	HIT-Z-R	3	HIT-Z-R-3M16
HXJE300(L)/XHJSE300(L)	M20x250	HIT-Z-R	4	HIT-Z-R-4M20
HXJE350(L)/XHJSE350(L)	M20x250	HIT-Z-R	6	HIT-Z-R-6M20
HXJE400(L)/XHJSE400(L)	M24x330	HIT-V-R	6	HIT-V-R-6M24



# Accessories - anchors

High-performance anchor rod for injectable hybrid/epoxy anchors (A4 stainless steel).

- Material, corrosion: Stainless steel, A4
- Base materials: Concrete (cracked), Concrete (uncracked), Masonry (solid)
- PROFIS software: Yes



# Accessories - anchors

## ANCHOR HIT-Z-R

TYPE	DRILL DIAMETER DD [mm]	THREAD SIZE TS [MM]	LENGTH L [MM]	SETTING DEPTH (SD) [MM]	TIGHTENING TORQUE F [NM]	REQUIRED MORTAR - PER ANCHOR [ML]	ITEM CODE
M10x160	12	M10	160	120	25	13	HITZRM10x160
M12x155	14	M12	155	120	40	18	HITZRM12x155
M16x205	18	M16	205	170	80	32	HITZRM16x250
M16x240	18	M16	240	190	80	35	HITZRM16x240
M20x250	22	M20	250	210	150	53	HITZRM20x250

## ANCHOR HIT-V-R

TYPE	DRILL DIAMETER DD [mm]	THREAD SIZE TS [MM]	LENGTH L [MM]	SETTING DEPTH (SD) [MM]	TIGHTENING TORQUE F [NM]	REQUIRED MORTAR - PER ANCHOR [ML]	ITEM CODE
M24x330	26	M24	330	285	200	123	HITVRM24x300

# Technical specifications



# Technical material description

## Application:

### Spindle, sleeve and foot cover

**Material type:** Stainless steel, SISI 304/A2 (X5CrNi18-10), Euronorm 1.4301. By request: Stainless steel, AISI 316/A4 (X 5 CrNiMo 17 12 2). Euronorm 1.4401.

**Compliance:** EN 10204 Type 2.2. NGI a/s states that the product is in compliance with the order with indication of results of non-specific inspection. NGI has EN 10204 type 3.1 inspection CERTIFIEDs on all material used in the products but not specified for each foot.



## Application:

### Sealing ring between steel components

**Material type:** Silicon rubber

**Hardness:** 60 Shore A

**Color:** RAL 5010 (blue)

**Range of temperature:** Min. -60 ° C to max. +200 ° C

**Storage:** According to ISO 2230

**Compliance:** FDA:Guideline 21 CFR 177.2600

RoHS 2: In accordance with the Directive 2011/65/ EC OF EUROPEAN PARLIAMENT AND OF THE COUNCIL

GMP: Good Manufacturing Process in accordance with 2023/2006 EC



## Application:

### Sealing

**Material type:** NBR

**Color:** Black

**Hardness:** 72 +/- 3 Shore A DIN 53 505

**Range of temperatures:** Min. -35 ° C to max. +110 ° C

**Compliance with:** REACH, RoHS & RoHS 2, ADI free, EC 100S/2009, EC 2037/2000, 2023/2006 EC, No Phthalates, FDA approved.



## Application:

### Vulcanized rubber

**Material type:** NBR

**Color:** Black

**Hardness:** 72 +/- 3 Shore A DIN 53 505

**Range of temperatures:** Min. -35 ° C to max. +110 ° C

**Compliance with:** REACH, RoHS & RoHS 2, ADI free, EC 100S/2009, EC 2037/2000, 2023/2006 EC, No Phthalates, FDA approved.



## Application:

### Plastic lid

**Material type:** PPC

**Electrically:** Non-conductive

**Chemical resistance:** High to commonly applied cleaning agents

**Color:** Black

**Hardness:** Rockwell R 85

**Range of temperature:** Min. -20 ° C to max. +90 ° C

**Load:** High load capacity



## Application:

### Foot base for NGI plastic feet

**Material type:** PA 6

**Electrically:** Non-conductive

**IP Code IP69K** DIN (Deutsches Institut für Normung) 40050-9

**Chemical resistance:** High to commonly applied cleaning agents

**Color:** Black

**Flammability:** V2

**Range of temperature:** Min. -20 ° C to max. +110 ° C

**Max. temperature:** High thermal resistance for short duration: +150 ° C

**Compliance with:** REACH 2037/2000, 2023/2006 EC, No Phthalates, FDA approved



## Application:

### Anti slip 2K bounded

**Material type:** TPE

**Electrically:** Non-conductive

**Chemical resistance:** High to commonly applied cleaning agents

**Color:** Black

**Hardness:** Shore A 90 +/- 5

**Range of temperature:** Min. -50 ° C to max. +125 ° C

**Load:** High load capacity



## Application:

### Anti slip

**Material type:** EPDM/NBR

**Electrically:** Non-conductive

**Chemical resistance:** High to commonly applied cleaning agents

**Color:** Black

**Hardness:** Shore A 80 +/- 5

**Range of temperature:** Min. -20 ° C to max. +110 ° C

**Load:** Low load capacity



# Technical specifications

## Footplate load information

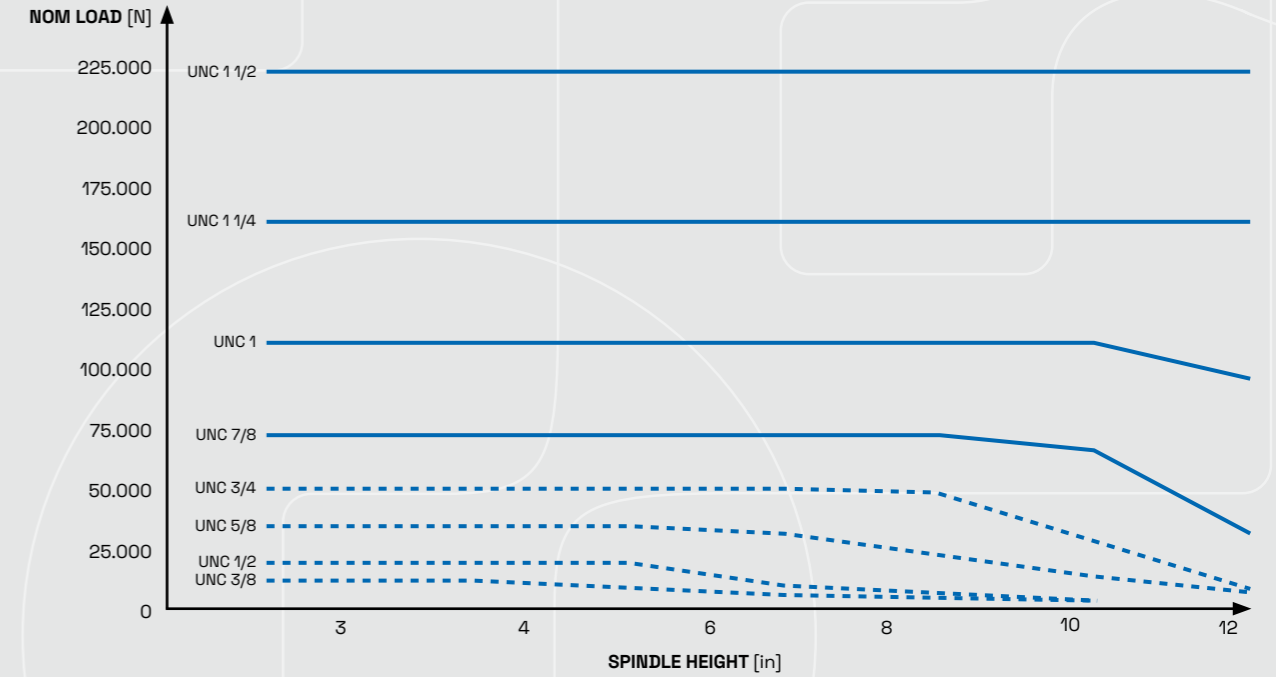
The nominal load specifications below are for the footplates only.  
Maximum nominal load = lowest value for footplate or spindle.

3A, USDA & EHEDG	HYGIENIC	FULLY-THREADED	SOLID	PLASTIC	NOMINAL LOAD UP TO [N]
FOOTPLATE TYPE	FOOTPLATE TYPE	FOOTPLATE TYPE	FOOTPLATE TYPE	FULLY-THREADED FOOTPLATE TYPE	
XHS065, XHS066, XHS080, XHS081, XHTS65, XHTS066, XHTS080, XHTS081, XHF065, XHF066, XHF080, XHF081	M040, M050, M075, M076, M077, M105, M106, H060, H061, H080, H081, H082, HT060, HT080	M040, M050, M075, M076, M077, M105, M106, H060, H061, H080, H081, H082, HT060, HT080, K075, HX065, HX066, HX080, HX081, HXT080		HPA040, HPA040AS, HPA050, HPA050AS, HPA060, HPA060AS, HPA080, HPA080AS, HPA081, HPA081AS, HPA100, HPA100AS, HPA101, HPA101AS, HPO60, HPO80, HPG060, HPG080, HPRO8	20.000
XHS105, XHS106, XHTS125, XHTS105, XHTS106	H100, H101, H120, H140, HT100, HT120, HT140, M100, M125, M150, H120, H140, HG060AS, HG070AS, HG090AS, HG110AS, HG150AS, HGT090AS, HGT110AS, HJT090AS, HJT110AS, HJ080AS, HJ090AS, HJ110AS, HJ150AS,	HT100, HT120, HT140, K100, K125, HX105, HX106, HX125, M100, M125, M150, H120, H140	CF110AS, CF180AS, G090AS, G110AS, G150AS, G180AS, G200AS, HG060AS, HG070AS, HG090AS, HG110AS, HG150AS, HGT090AS, HGT110AS, HJ080AS, HJ090AS, HJ110AS, HJ150AS, J090AS, J110AS, J150AS, J180AS, KCF110AS, KG090AS, KG110AS, KG150AS, KG180AS, KJ090AS, KJ110AS, KJ150AS, KJ180AS, KT090AS, KT110AS, KT130AS, KT150AS, KT180	HP100, HP120, HPG100, HPG120, HPR100, HPR120, HPA125, HPA125AS	60.000
XHS150, XHTS150, XHGS105, XHGS125, XHGS150, XHGS105, XHGS125, XHGS150, XHJS105, XHJS125, XHJS150, XHJS105, XHJS125, XHJS150	HG060, HG070, HG090, HG110, HG150, HJ080, HJ090, HJ110, HJ150	HX150	CF110, G090, G110, G150, J090, J110, J150, KG090, KG110, KJ090, KJ110, HG060, HG070, HG090, HG110, HG150, HJ080, HJ090, HJ110, HJ150, KCF110, HXG105, HXG105AS, HXG125, HXG125AS, HXGT105, HXGT105AS, HXGT125, HXGT125AS, HXJ105, HXJ105AS, HXJ125, HXJ125AS, HXJT105, HXJT105AS, HXJT125, HXJT125AS		120.000
			CF180, G180, J180, KG150, KG180, KJ150, KJ180, KT090, KT110, KT130,		180.000
			KT150, KT180		240.000
	HGT090, HGT110, HJT090, HJT110		HGT090, HGT110, HJT090, HJT110		300.000

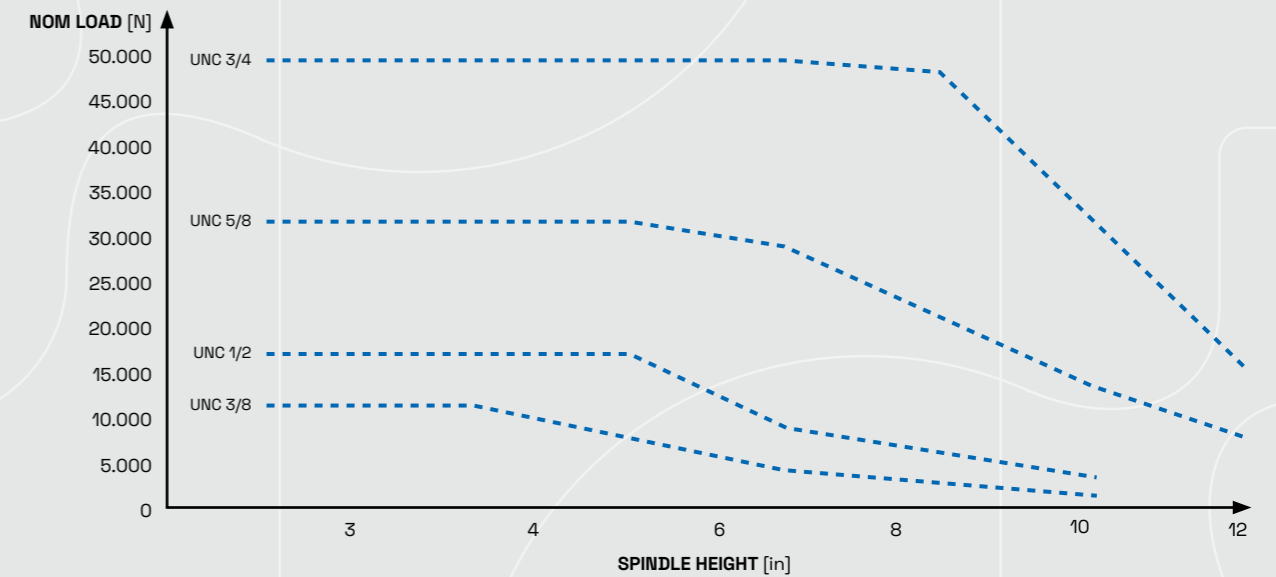
# Technical specifications

## Spindle load information

**NOM LOADS - ALL SPINDLES**  
UNC 3/8 - UNC 1 1/2



**NOM LOADS - SMALL SPINDLES**  
UNC 3/8 - UNC 3/4



# Technical specifications

## Selecting a leveling foot

When selecting the leveling foot we recommend to follow the below factors.

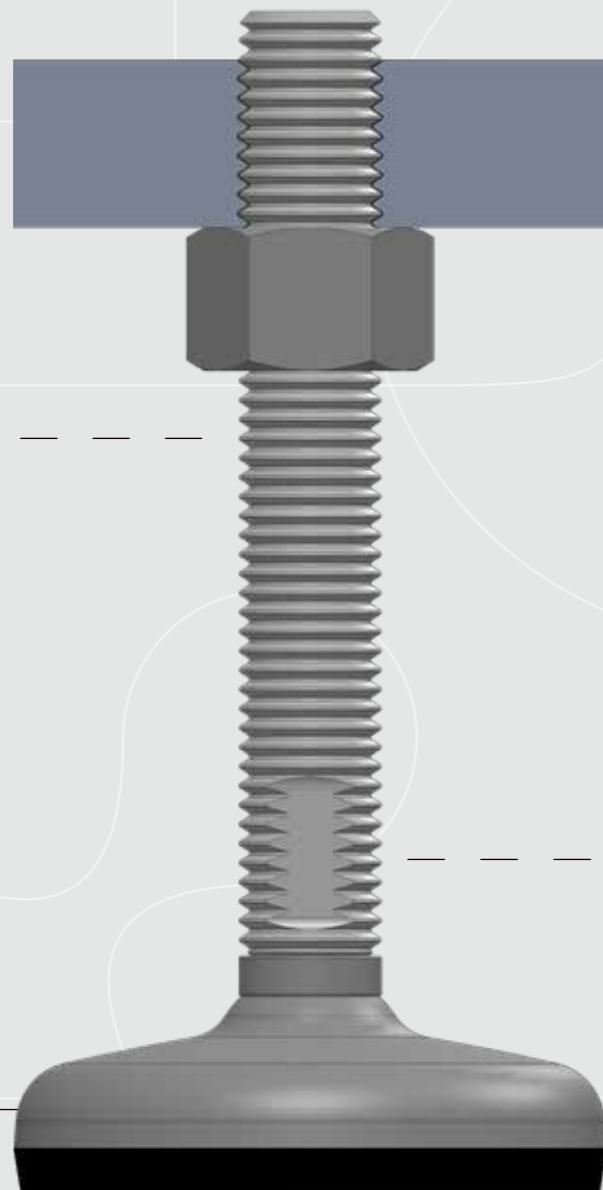
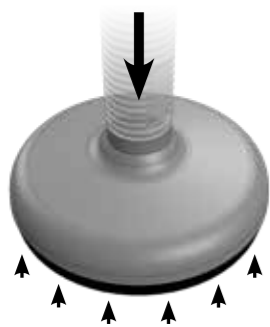
### Spindle destabilisation

The spindle must have the right diameter in relation to the length to avoid destabilisation.



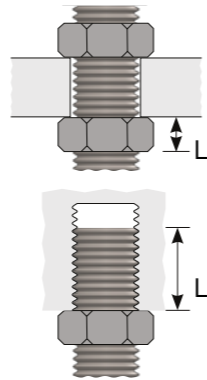
### Load combination

Maximum nominal load = lowest value for footplate or spindle.



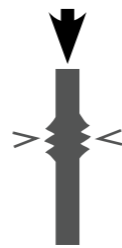
### Thread engagement

The thread length of engagement (L) must be selected according to the load on the leveling foot.



### Spindle yield

The spindle diameter must be selected according to the load on the leveling foot to avoid spindle yield.



# Technical specifications

## Leveling of machinery

For optimal leveling of the machinery we recommend to follow the below guidelines.

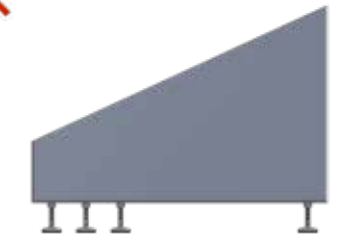
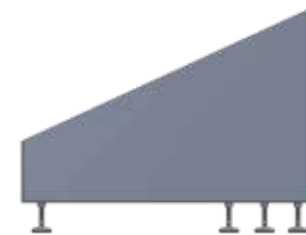
### Horizontal leveling

The machinery must be horizontally levelled.



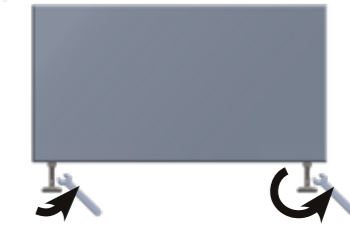
### Even load

If the machinery has an uneven weight distribution, the feet should be placed according to the distribution of weight.



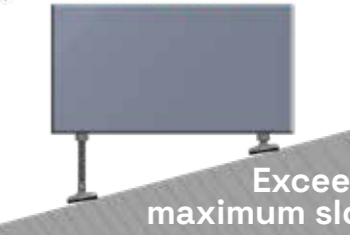
### Load distribution

To avoid overload of the machinery the leveling feet should be adjusted with the same torque.



### Sloping floor

For correct installation the maximum slope of the floor must not exceed the specifications of the leveling foot.



# UV lighting used to expose bacteria

- THE CERTIFIED HYGIENIC LEVELING FOOT IS CLEAN
- THE SPINDLE OR THE FULLY-THREADED LEVELING FOOT IS INFECTED WITH BACTERIA
- FULLY-THREADED VS HYGIENIC - IT TAKES 28% MORE RESSOURCES TO REACH THE SAME LEVEL OF CLEANABILITY ON A FULLY-THREADED FOOT
- RESSOURCES COULD BE TIME, WATER, MONEY, DETERGENTS, ETC.

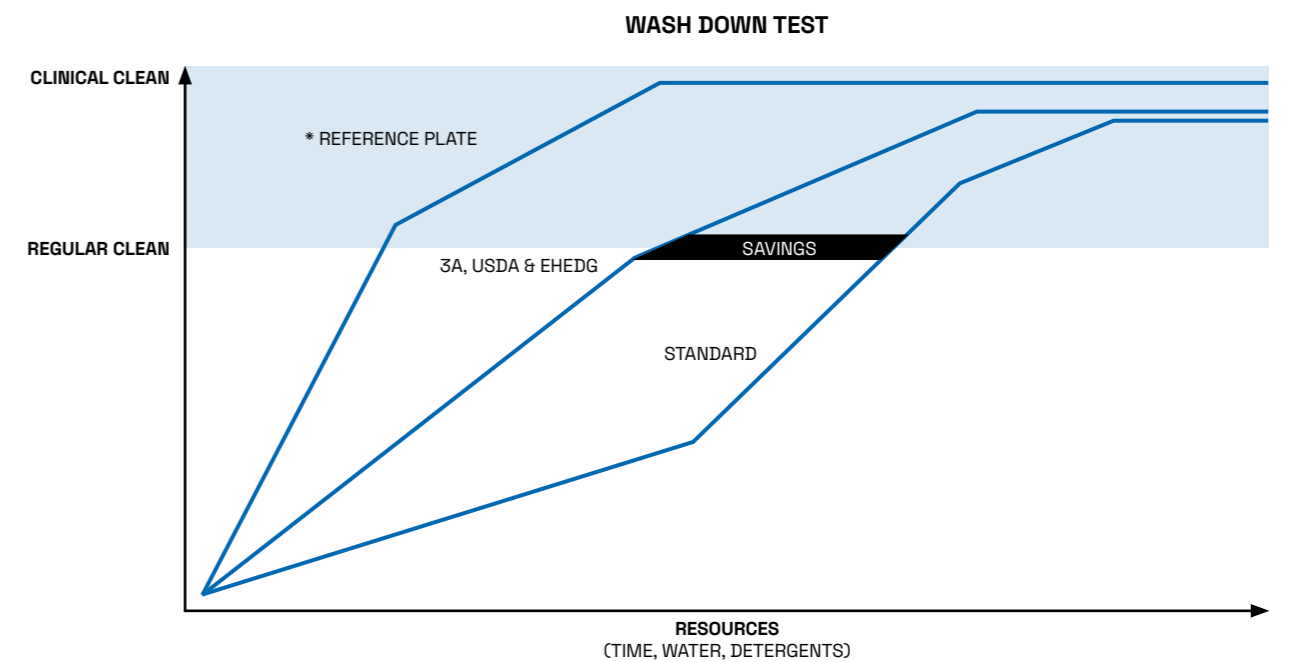
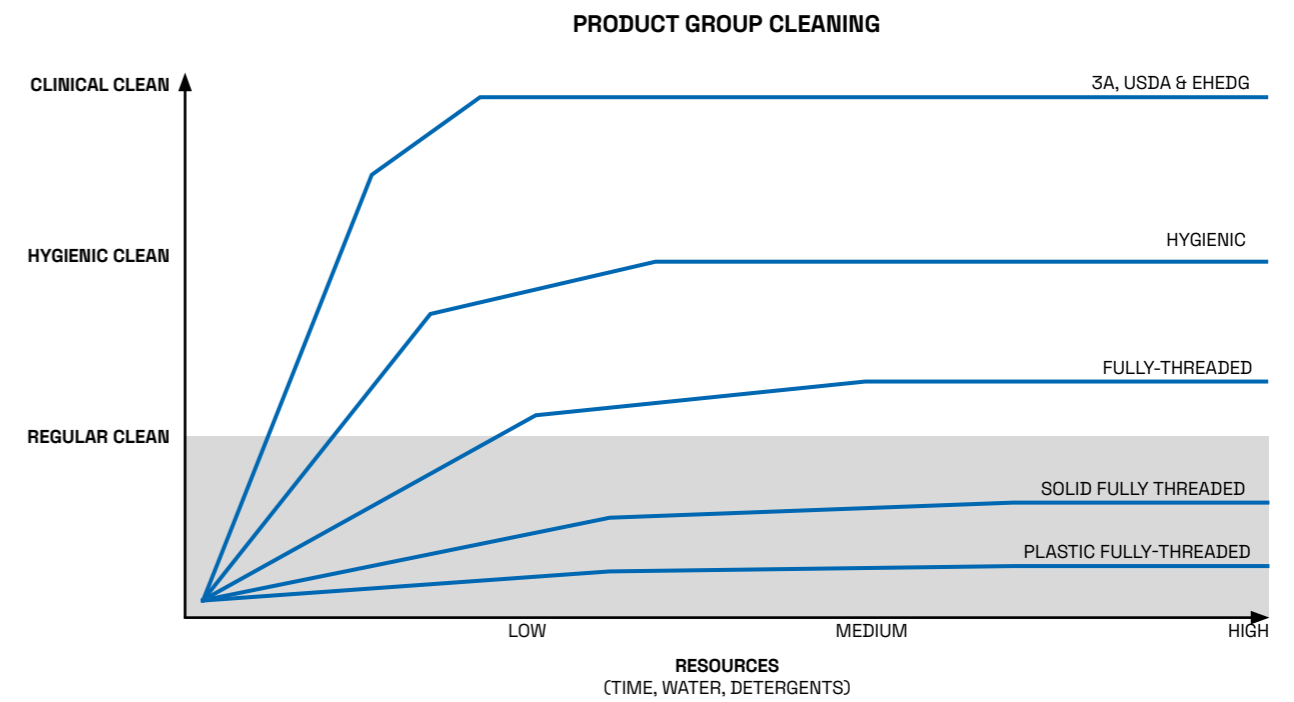
ESTIMATED SAVINGS  
**28%**



# Technical specifications Cleaning Instructions

The resources required to clean NGI's leveling feet depends largely on the design of the leveling foot and the environment in which the leveling foot is used.

It is possible to use all known detergents to clean the leveling feet as long as the instructions provided by the supplier is complied with.



\* Reference plate = Stainless steel plate with surface less than Ra 0,8

# Terms of sales & delivery

## 1.0 Scope of application of terms and conditions of sale

1.1 These terms and conditions of sale apply to all NGI A/S ("NGI") offers, sales and deliveries of products to the buyer (the Buyer") unless otherwise accepted by NGI in writing.

1.2 NGI and the Buyer have not entered into a final and binding agreement of sale until NGI has issued a written order confirmation, which shall constitute such final and binding agreement.

## 2.0 Delivery terms

2.1 Products are delivered EX WORKS/ab fabrik from NGI's place of business (Virkelyst 5, 9400 Nørresundby, Denmark). Products are delivered in NGI's standard packaging.

2.2 If NGI and the Buyer have agreed that NGI shall arrange for transport of the products to the Buyer, NGI will stipulate the expected date of delivery in the applicable order confirmation. Any such transport will be at the cost and risk of the Buyer unless otherwise explicitly agreed by the parties in writing.

2.3 Delivery dates are best estimates only. NGI shall not be liable for delays.

## 3.0 Terms of payment

3.1 NGI offers the Buyer the number of days of credit specified in the relevant invoice. However, NGI may demand prepayment at any time if NGI considers this to be relevant.

3.2 If payment is not made before or on the due date specified in the relevant invoice, NGI is entitled to charge interest on the due amount from the due date at a rate of 2% per commenced month.

3.3 NGI reserves title in the products until the products have been paid for in full.

## 4.0 Defects and liability

4.1 NGI is obliged to, at its choice, repair or replace defective products on the terms set out in clauses 4.2 - 4.9 below.

4.2 The buyer shall complain in writing to NGI of a defect immediately after such defect has been or should have been discovered and in any event within one year from delivery. The complaint shall describe the alleged defect in reasonable detail. If the Buyer does not complain in accordance with the aforesaid, the Buyer will lose his right to raise claims against NGI for products being defective. If a product has been used more intensively than agreed or assumed, the complaints period shall be reduced proportionally.

4.3 Repair or replacement of products or parts does not extend the maximum complaints period of one year in clause 4.2.

4.4 If NGI decides to repair a defective product, repair shall take place on site. If NGI decides to replace a defective product, replacement will be effected by NGI sending a non-defective product to the Buyer. Repair or replacement shall be effected by NGI within reasonable time after NGI receives a complaint in accordance with clause 4.2, and in any event with 4 weeks from receipt of such complaint.

4.5 NGI may demand that (alleged) defective products are returned to NGI at the Buyer's risk and cost. Returned products shall become NGI's property if replaced. If the Buyer complains about a product that NGI subsequently establishes not be defective, NGI may claim compensation for its time, work, costs etc. in accordance with its terms, rates and prices applicable from time to time.

4.6 If NGI does not fulfill its obligations under clause 4.4, the Buyer shall have the right to return the defective product to NGI, at the Buyer's cost and risk, for a full refund of the purchase price.

4.7 NGI shall not be responsible for defects caused by material which is provided by the Buyer, for constructions or specification which are prescribed or specified by the Buyer, for inadequate maintenance, for changes to the delivered products made without NGI's prior written consent, for inappropriate repairs or incorrect use of the products, or for faulty preparatory work by the Buyer. NGI's liability only includes defects which appear under working conditions presumed by NGI. Normal wear and tear and depreciation shall not be considered a defect.

# Terms of sales & delivery

4.8 NGI's liability under this Agreement shall be limited to the invoice value of the defective product, that gave rise to claim. Further, NGI shall not be liable for indirect loss, including loss of operation, lost earnings and other consequential loss. The limitation of NGI's liability shall not apply if NGI acted grossly negligently or intentionally.

4.9 NGI shall be liable only to the extent set out above in this clause 4. The rights and remedies of the Buyer set out in this clause 4 are exhaustive and exclude all other remedies and claims under law or otherwise.

## 5.0 Product Liability

5.1 NGI shall be responsible for product liability claims only to the extent required under mandatory product liability law. NGI shall not be liable for damage to commercial property. Further, NGI shall not be liable for indirect loss, including loss of operation, lost earnings and other consequential loss.

If a third party raises a claim against the Buyer for product liability, the Buyer shall immediately notify NGI in writing.

## 6.0 Choice of law and venue

6.1 Any disputes between the Parties arising from or in connection with NGI's sales of products to the Buyer shall be governed by substantive Danish law (and the CISG shall not be applicable), and disputes shall be brought before The Maritime and Commercial Court (Sø- og Handelsretten) in Copenhagen, Denmark. If this court declares that it is not competent, disputes shall be brought before the Copenhagen City Court (Københavns Byret) in Copenhagen, Denmark.

### Date of publication: April 2020

All information in this product catalogue is subject to change without prior notice.

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# Certified hygienic **CIP Unit**





A safer and more effective cleaning of your equipment?

## - try our CIP Unit!

The new easy-to-fit hygienic CIP unit is a simple and efficient solution, where nozzles are positioned on the two spray bars. This is to effectively remove the accumulated organic residues from both sides of a process and conveyor belting.

The CIP unit can easily be installed with no use of complicated engineering and conveyor frame modifications. The device is highly efficient, hygienically designed, and makes cleaning more environmentally friendly.

The installation of the new CIP unit minimizes the operator's manual cleaning and contributes to reduce the resource utilization such as water, labor and detergents. See more at [www.ngi-global.com](http://www.ngi-global.com)

- Reduce the cleaning time and manual labor and increase your production time
- Reduce the consumption of water, chemicals and energy
- Minimize the wear on conveyor belt surfaces by avoiding manual cleaning
- Low maintenance and service required
- State-of-the-art hygienic design. Inspired by EHEDG and 3-A design guidelines

Watch video online to see the CIP Unit in action

