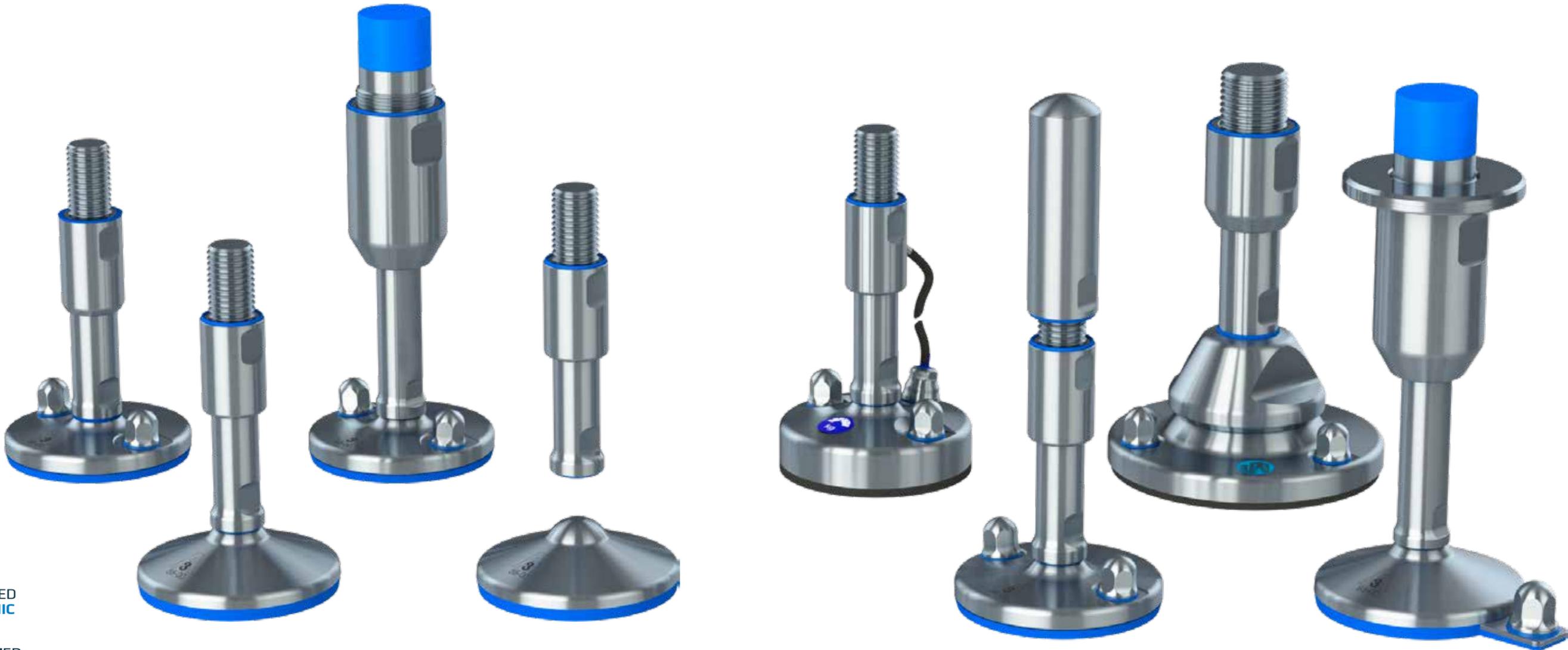


# CERTIFIED HYGIENIC LEVELLING FEET



THE ONLY LEVELLING 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 LEVELLING 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 levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI).

All certified hygienic levelling 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 107 mm – 199 mm
- 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



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## XH

### Special Features

- Height variation 104 mm – 206 mm
- 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 107 mm – 199 mm
- 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 101 mm – 197 mm
- 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 96 mm – 327 mm
- 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 109 mm – 208 mm
- 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 LEVELLING 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 levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI).

All certified hygienic levelling feet with fastening to floor are delivered with certified hygienic nuts.



## XHFV

### Special Features

- Height variation 99 mm – 335 mm
- 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

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## XHW

### Special Features

- Height variation 115 mm – 218 mm
- 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 96 mm – 326 mm
- 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 115 mm – 217 mm
- 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 104 mm – 335 mm
- 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 115 mm – 218 mm
- 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

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# CERTIFIED HYGIENIC LEVELLING 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 levelling feet reduce the water consumption and cleaning resources in addition to minimizing the risk of contamination in the production.

Choosing NGI's certified levelling feet will hygienically enhance your machinery and your customer's Return-On-Investment (ROI).

All certified hygienic levelling feet with fastening to floor are delivered with certified hygienic nuts.

# INSTRUCTIONS



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

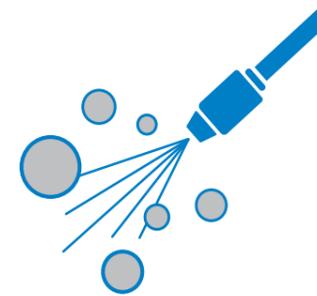


## XHGTW

### Special Features

- Height variation 115 mm – 217 mm
- 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.

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## CLEANING & MAINTENANCE

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

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## XHJSE (S)

### Special Features

- Height adjustment 155 mm - 285 mm
- 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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## INSTALLATION MANUAL

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

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## XHJSE (L)

### Special Features

- Height adjustment 221 mm - 355 mm
- 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

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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 levelling 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 M6-M24
- Are delivered with all certified hygienic machine feet with floor fixing



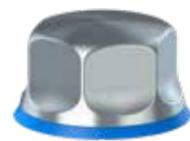
292



## 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 M5-M24



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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 M5-M24



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# CERTIFIED HYGIENIC ZHJS

-  CERTIFIED HYGIENIC
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE

The design and patent protected solid ZHJS levelling 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.

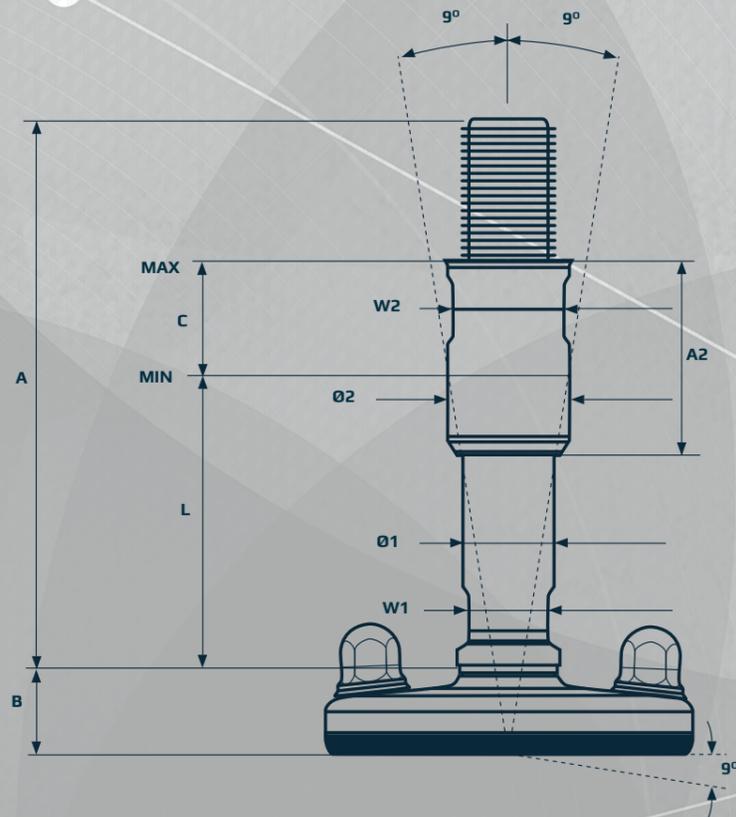
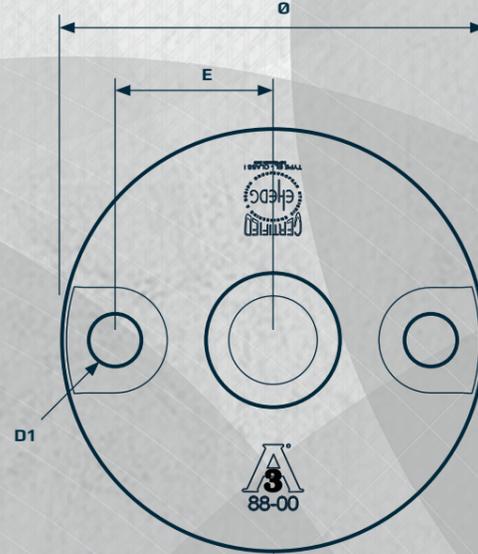
Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### 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 LEVELLING FEET ZHJS



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	ZHJ105 - XHJGSC16155 - RHOXS1655



#### FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	110.000	ZHJ125
149	25	61	13	110.000	ZHJ150

#### SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M16	155	99	15	17	30.800	XHJGSC16155
M16	215	108	15	17	24.900	XHJGSC16215
M20	155	99	19	21	48.200	XHJGSC20155
M20	215	108	19	21	48.200	XHJGSC20215
M24	155	99	22	26,4	69.200	XHJGSC24155
M24	215	108	22	26,4	69.200	XHJGSC24215
M30	155	82	27	32	110.200	XHJGSC30155
M30	215	111	27	32	110.200	XHJGSC30215
M36	155	82	28	32	160.200	XHJGSC36155
M36	215	111	28	32	160.200	XHJGSC36215

#### SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	55	36	RHOXS1655
M16	22	24,8	85	66	RHOXS1685
M20	27	29,8	55	36	RHOXS2055
M20	27	29,8	85	66	RHOXS2085
M24	32	34,8	55	36	RHOXS2455
M24	32	34,8	85	66	RHOXS2485
M30	38	41,8	55	33	RHOXS3055
M30	38	41,8	85	63	RHOXS3085
M36	46	49,8	55	33	RHOXS3655
M36	46	49,8	85	63	RHOXS3685

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 = +/- 1,5 mm



# CERTIFIED HYGIENIC ZHJC

The design and patent protected solid ZHJC levelling 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.

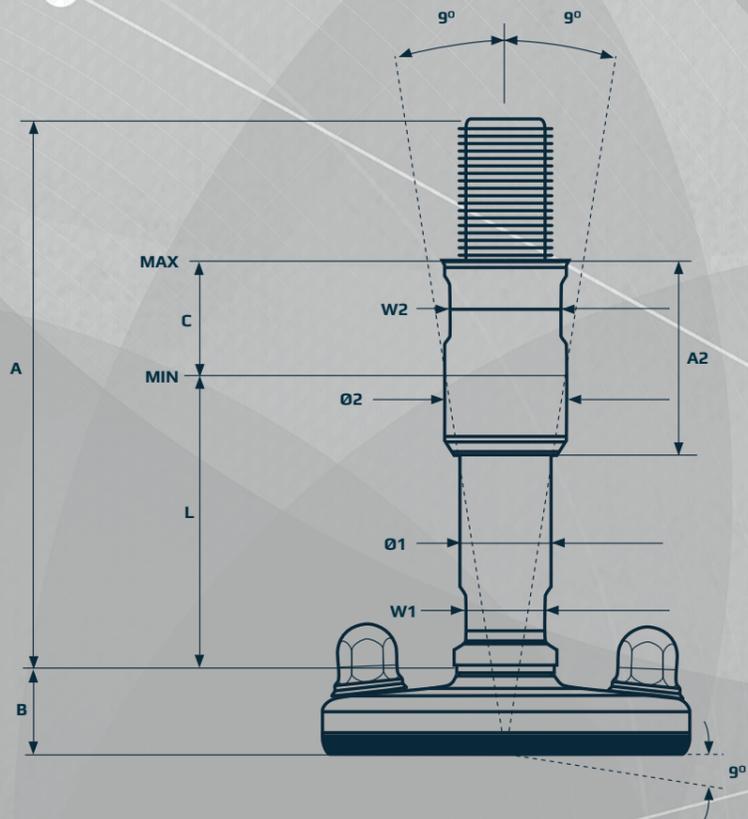
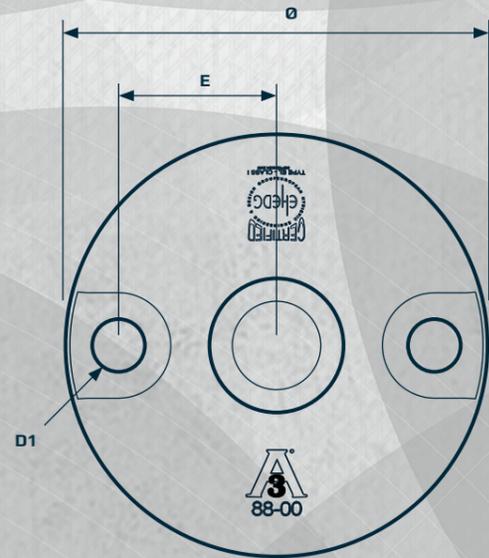
Minimum cleaning effort is obtained by the design of the self-draining 0,8 µm RA surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

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

#### Included in every shipment:

- Certified hygienic nuts



# CERTIFIED HYGIENIC LEVELLING FEET ZHJC



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	ZHJ105-XHJGSC16155-RHOXC1655



#### FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	110.000	ZHJ125
149	25	61	13	110.000	ZHJ150

#### SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	DIAMETER W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
M16	155	99	15	17	30.800	XHJGSC16155
M16	215	108	15	17	24.900	XHJGSC16215
M20	155	99	19	21	48.200	XHJGSC20155
M20	215	108	19	21	48.200	XHJGSC20215
M24	155	99	22	26,4	69.200	XHJGSC24155
M24	215	108	22	26,4	69.200	XHJGSC24215
M30	155	82	27	32	110.200	XHJGSC30155
M30	215	111	27	32	110.200	XHJGSC30215

#### SLEEVE



THREAD	DIAMETER W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	55	36	RHOXC1655
M16	22	24,8	85	66	RHOXC1685
M20	27	29,8	55	36	RHOXC2055
M20	27	29,8	85	66	RHOXC2085
M24	32	34,8	55	36	RHOXC2455
M24	32	34,8	85	66	RHOXC2485
M30	38	41,8	55	33	RHOXC3055
M30	38	41,8	85	63	RHOXC3085

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 = +/- 1,5 mm



# CERTIFIED HYGIENIC 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.

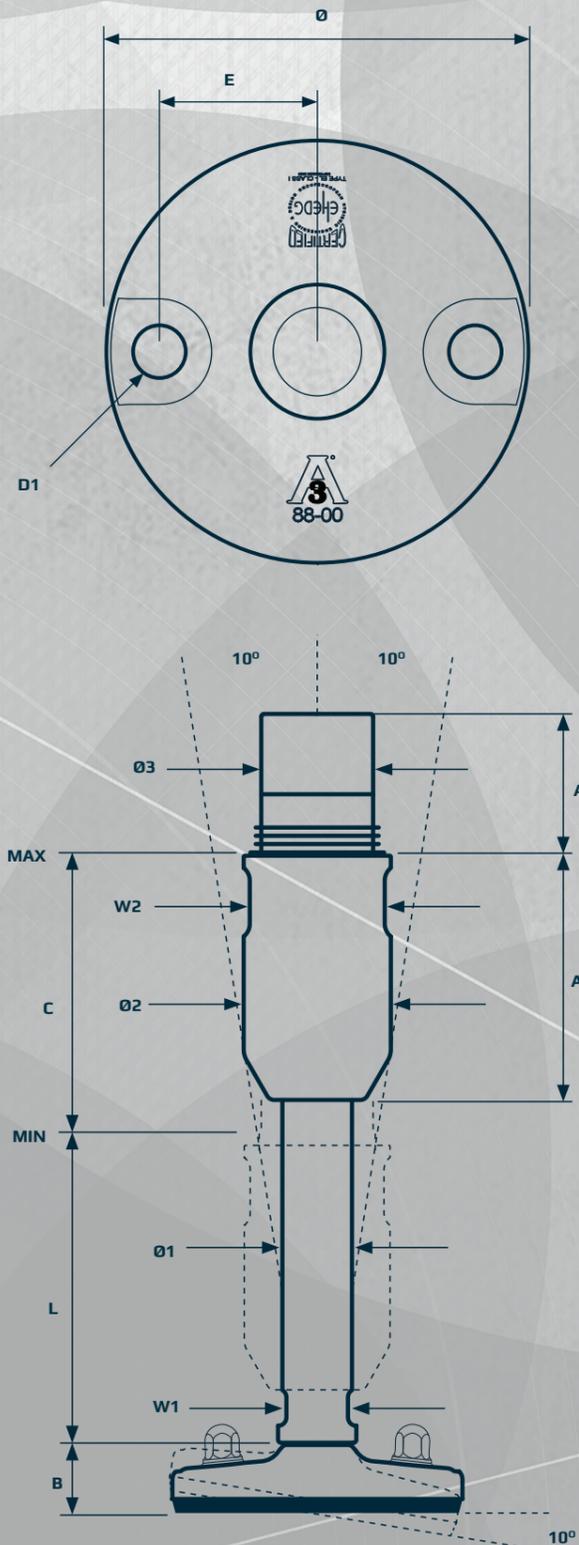
ZHFVJ is designed to be fastened to the floor by the two fixing holes in the footplate. Hygienic nuts according to EHEDG specifications are included.

**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 LEVELLING FEET ZHFVJ



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	ZHFVJ150-XHFJG33144-V1

**FOOT PLATE**



DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	ZHJ080
104	25	39	13	55.000	ZHJ105
124	25	48	13	95.500	ZHJ125
149	25	61	13	95.500	ZHJ150

**SPINDLE**



THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFJG
M33x3,5	111	25	22	XHFJG
M33x3,5	152	25	22	XHFJG

**SLEEVE**



THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	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 = +/-1,5 mm



# CERTIFIED HYGIENIC XHG

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

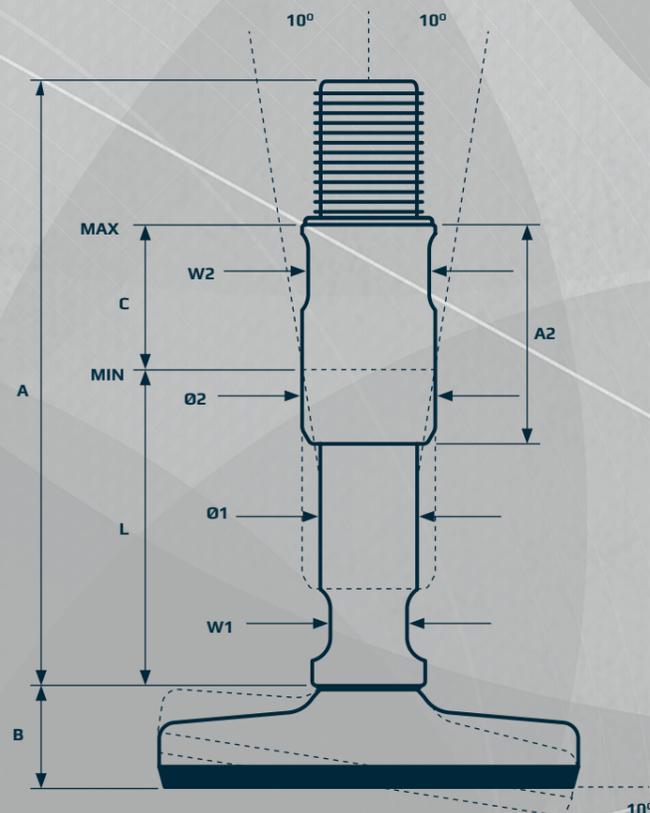
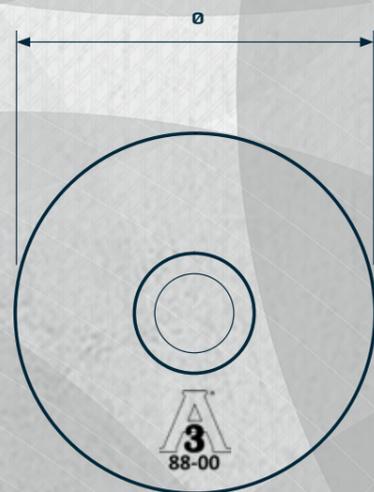
All movable parts are 100% hygienically sealed even if the load on the foot is removed. All sealings are blue and therefore detectable by scanning systems.

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
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE



# CERTIFIED HYGIENIC LEVELLING FEET XHG



### FOOT PLATE



### SPINDLE



### SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHG105 - XHJG16150 - RHOX1650

DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	35.000	XHG080
104	25	55.000	XHG105
124	25	110.000	XHG125
149	25	110.000	XHG150

THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHJG16150
M16	210	106	13	16	24.900	XHJG16210
M20	150	76	15	20	48.200	XHJG20150
M20	210	106	15	20	48.200	XHJG20210
M24	150	76	19	24	69.200	XHJG24150
M24	210	106	19	24	69.200	XHJG24210
M30	150	76	24	30	110.200	XHJG30150
M30	210	106	24	30	110.200	XHJG30210
M36	150	76	30	36	160.200	XHJG36150
M36	210	106	30	36	160.200	XHJG36210

THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHJ

-  **CERTIFIED HYGIENIC**
-  **MINIMIZED CLEANING TIME**
-  **MINIMIZED WATER USAGE**

The design and patent protected solid XHJ levelling 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 levelling 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.

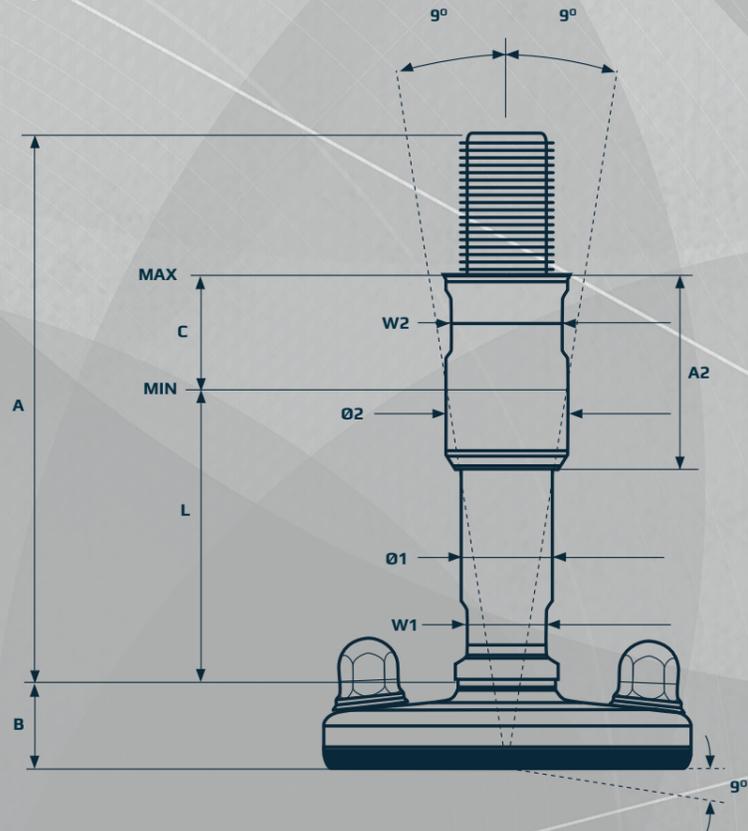
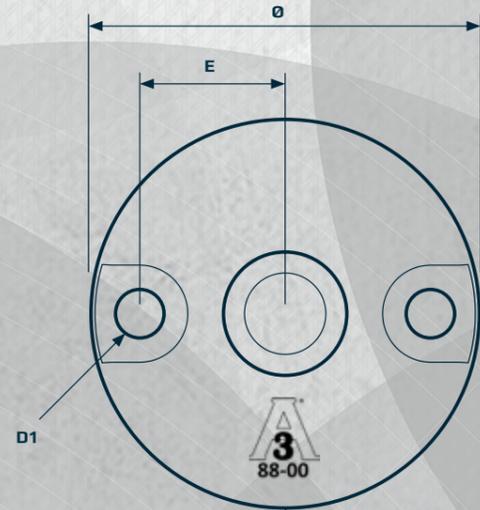
Minimum cleaning effort is obtained by the design of the self-draining surfaces. Additionally, the foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate.

#### Available upon request:

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

#### Included in every shipment:

- Certified hygienic nuts



# CERTIFIED HYGIENIC LEVELLING FEET

XHJ



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHJ105 - XHJG16150 - RHOX1650



#### FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	29	8,4	35.000	XHJ080
104	25	38	13	55.000	XHJ105
124	25	47	13	110.000	XHJ125
149	25	62	13	110.000	XHJ150

#### SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHJG16150
M16	210	106	13	16	24.900	XHJG16210
M20	150	76	15	20	48.200	XHJG20150
M20	210	106	15	20	48.200	XHJG20210
M24	150	76	19	24	69.200	XHJG24150
M24	210	106	19	24	69.200	XHJG24210
M30	150	76	24	30	110.200	XHJG30150
M30	210	106	24	30	110.200	XHJG30210
M36	150	76	30	36	160.200	XHJG36150
M36	210	106	30	36	160.200	XHJG36210

#### SLEEVE



THREAD	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHT

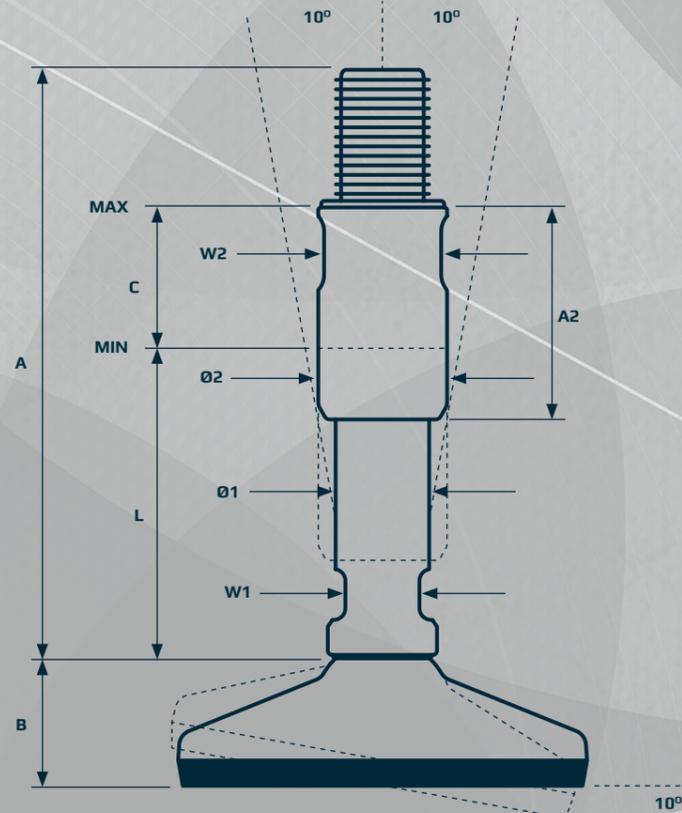
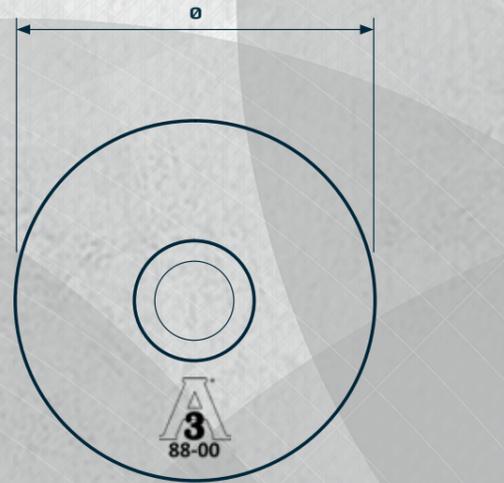
The design and patent protected XHT levelling foot is the optimal choice for machinery and equipment that has to comply with the strictest hygienic requirements.

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 LEVELLING FEET XHT



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHT080 - XHT16150 - RHOX1650

## FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	33	15.000	XHT080
105	33	22.000	XHT105
125	34	32.000	XHT125
150	36	65.000	XHT150

## SPINDLE



THREAD	HEIGHT A [mm]	MIN HEIGHT L [mm]	W1 [mm]	DIAMETER Ø2 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHTS16150
M16	210	106	13	16	24.900	XHTS16210
M20	150	76	15	20	48.200	XHTS20150
M20	210	106	15	20	48.200	XHTS20210
M24	150	76	19	24	69.200	XHTS24150
M24	210	106	19	24	69.200	XHTS24210
M30	150	76	24	30	110.200	XHTS30150
M30	210	106	24	30	110.200	XHTS30210
M36	150	76	30	36	160.200	XHTS36150
M36	210	106	30	36	160.200	XHTS36210

## SLEEVE



THREAD	W2 [mm]	DIAMETER Ø1 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680



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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHFV

The design and patent protected XHFV levelling 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).

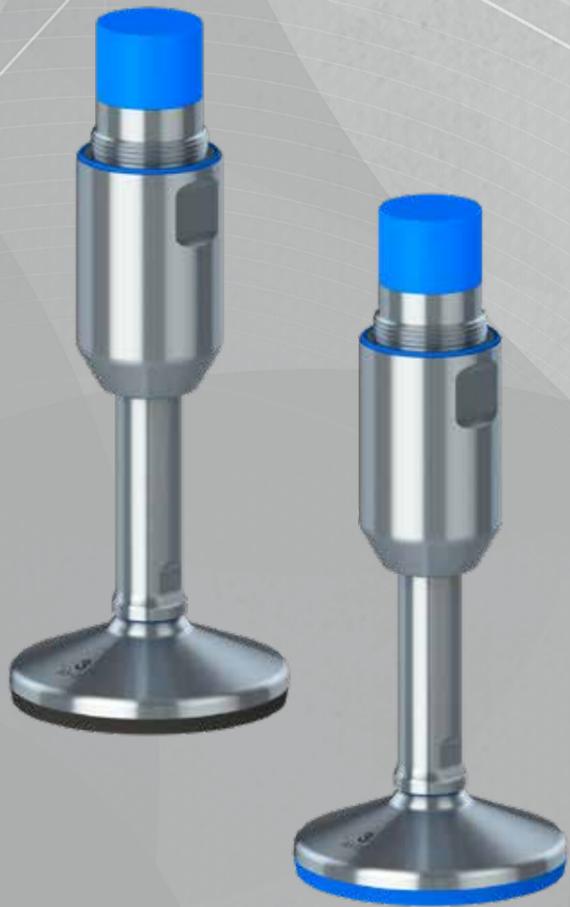
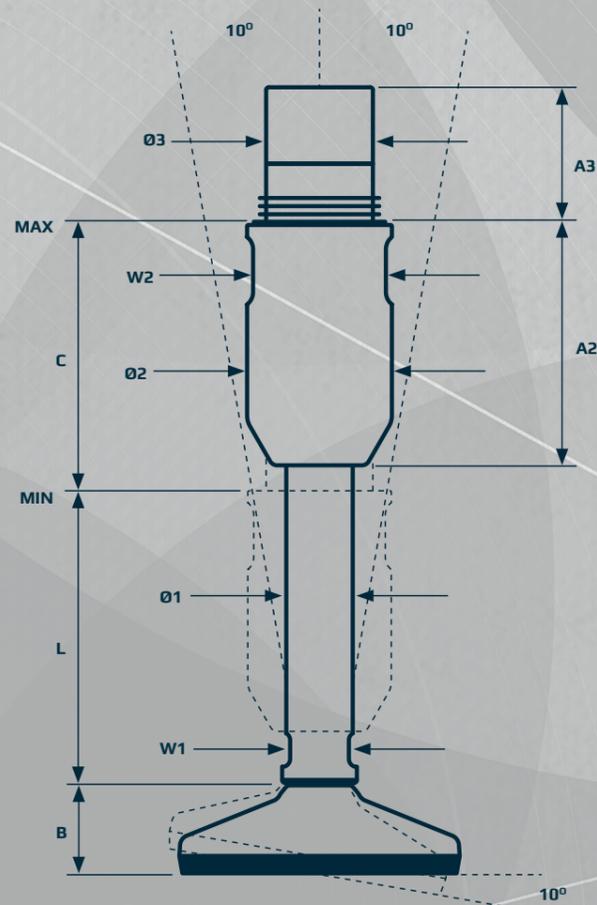
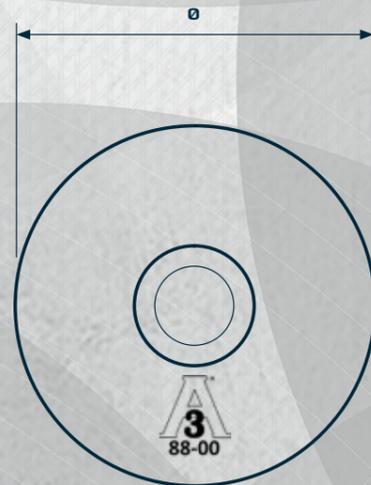
Flexible mounting with optional flanges or thread adaptor.

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 LEVELLING FEET XHFV



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFV065-XHF33144-V1



#### FOOT PLATE

DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	28	9.000	XH065
80	33	15.000	XH080
105	33	22.000	XH105
125	34	32.000	XH125
150	34	65.000	XH150



#### SPINDLE

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHF
M33x3,5	111	25	22	XHF
M33x3,5	151	25	22	XHF



#### SLEEVE

THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	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 = +/- 1,5 mm  
 Extra long V4 = V3 + adaptor



# CERTIFIED HYGIENIC XHFV FIXING

The design and patent protected XHFV Fixing levelling 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 levelling 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:

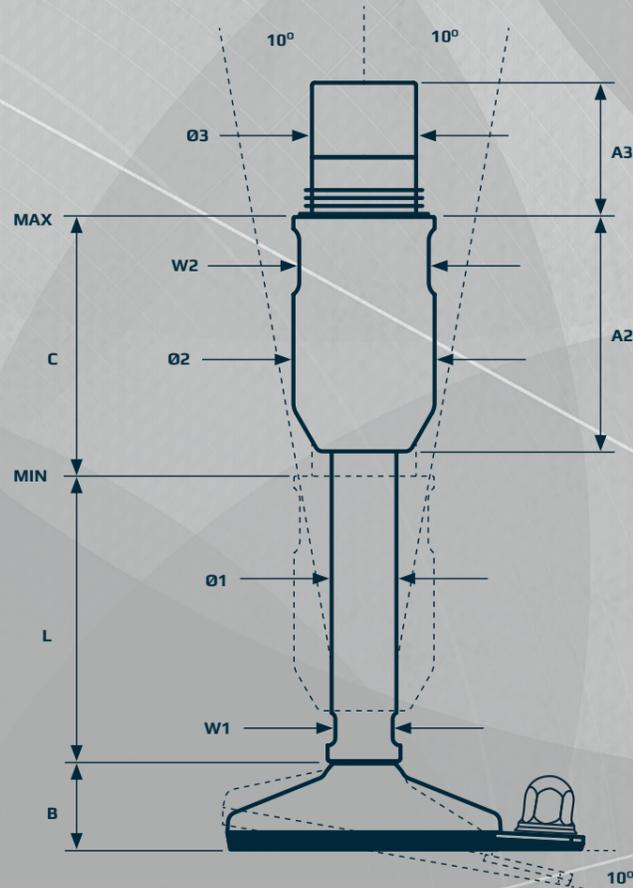
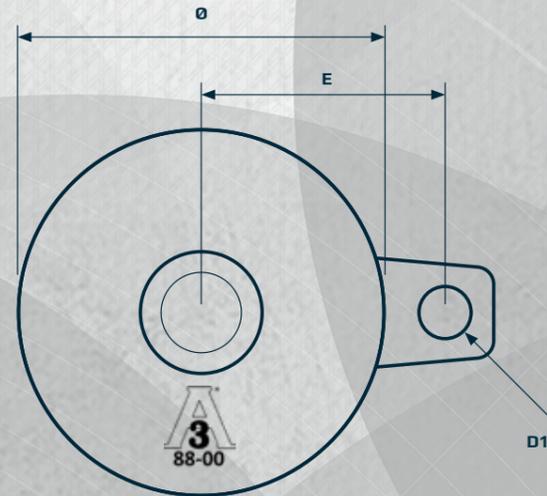
- Official 3-A & USDA hygiene certificates
- Installation instructions
- Cleaning & maintenance instructions

#### Included in every shipment:

- Certified hygienic nuts



- CERTIFIED HYGIENIC
- MINIMIZED CLEANING TIME
- MINIMIZED WATER USAGE



# CERTIFIED HYGIENIC LEVELLING FEET XHFV FIXING



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



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
65	28	46,8	15	9.000	XH-FIX066
80	33	53,2	15	15.000	XH-FIX081
105	33	70,0	15	22.000	XH-FIX106
125	34	80,0	15	32.000	XH-FIX126

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHF
M33x3,5	111	25	22	XHF
M33x3,5	151	25	22	XHF

THREAD	ADJUSTMENT C [mm]	HEIGHT A1 [mm]	HEIGHT A2 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	41	V1
M44x2	100	91	50	54,8	40	41	V2
M44x2	100	131	10	54,8	40	41	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 = +/- 1,5 mm  
 Extra long V4 = V3 + adaptor



# CERTIFIED HYGIENIC XHFVG

-  **CERTIFIED HYGIENIC**
-  **MINIMIZED CLEANING TIME**
-  **MINIMIZED WATER USAGE**

The design and patent protected solid XHFVG levelling 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).

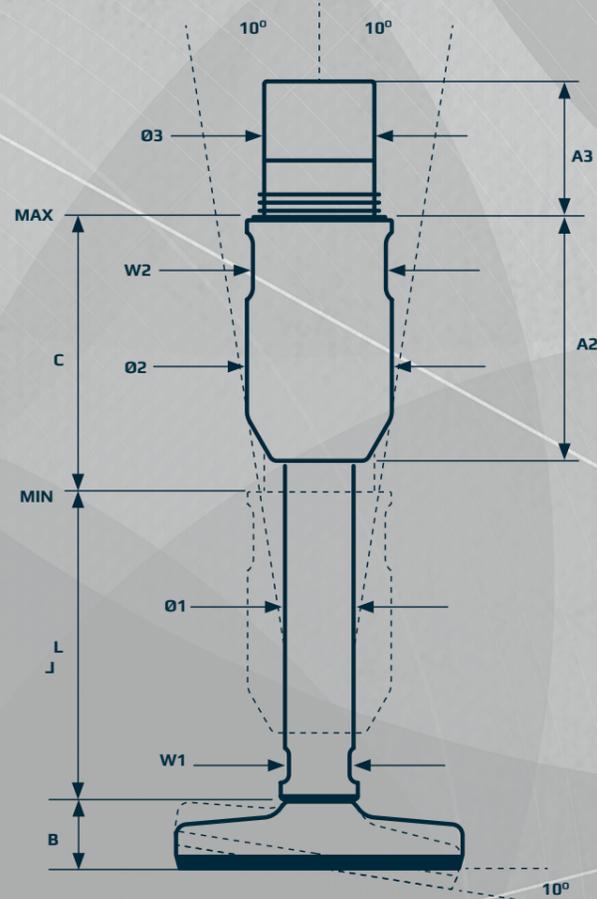
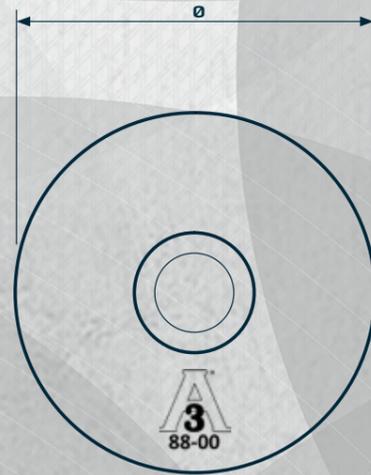
Flexible mounting with optional flanges or thread adaptor, no risk of over-adjusting the sleeve and thereby exposing the thread.

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 LEVELLING FEET XHFVG



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFVG105 - XHFJG33144 - V1



#### FOOT PLATE

DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
79	25	35.000	XHFVG080
104	25	55.000	XHFVG105
124	25	110.000	XHFVG125
149	25	110.000	XHFVG150



#### SPINDLE

THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFJG
M33x3,5	111	25	22	XHFJG
M33x3,5	151	25	22	XHFJG



#### SLEEVE

THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	50	V1
M44x2	100	91	50	54,8	40	50	V2
M44x2	100	131	10	54,8	40	50	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 = +/-1,5 mm





# CERTIFIED HYGIENIC XHFVT

-  **CERTIFIED HYGIENIC**
-  **MINIMIZED CLEANING TIME**
-  **MINIMIZED WATER USAGE**

The design and patent protected XHFVT levelling 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).

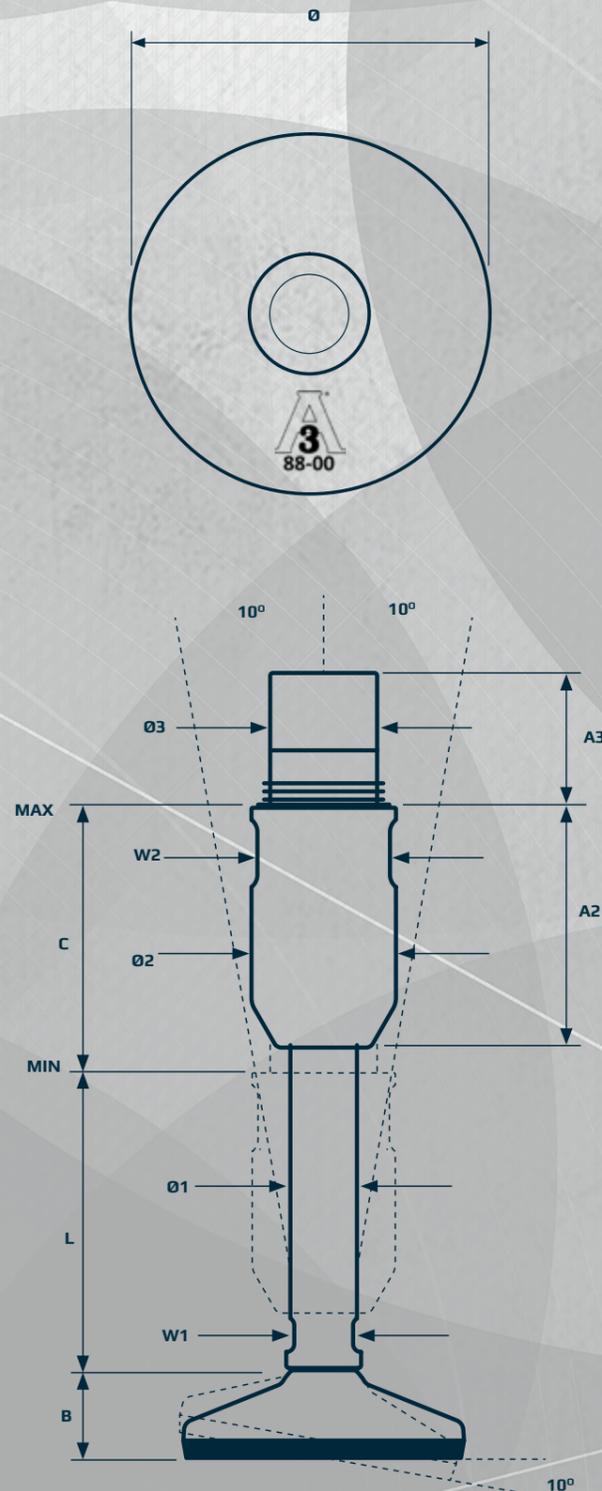
Flexible mounting with optional flanges or thread adaptor.

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 LEVELLING FEET XHFVT



PRODUCT CODE	FOOT - SPINDLE - SLEEVE
EXAMPLE	XHFVT080 - XHFT33144 - V1

#### FOOT PLATE



DIAMETER Ø [mm]	HEIGHT B [mm]	NOM LOAD COMPRESSION [N]	ITEM CODE
80	33	15.000	XHJ080
105	33	22.000	XHJ105
125	34	32.000	XHJ125
150	34	70.000	XHJ150

#### SPINDLE



THREAD	MIN HEIGHT L [mm]	DIAMETER Ø1 [mm]	W1 [mm]	ITEM CODE
M33x3,5	71	25	22	XHFT
M33x3,5	111	25	22	XHFT
M33x3,5	151	25	22	XHFT

#### SLEEVE



THREAD	ADJUSTMENT C [mm]	HEIGHT A2 [mm]	HEIGHT A3 [mm]	DIAMETER Ø2 [mm]	DIAMETER Ø3 [mm]	W2 [mm]	ITEM CODE
M44x2	100	51	90	54,8	40	41	V1
M44x2	100	91	50	54,8	40	41	V2
M44x2	100	131	10	54,8	40	41	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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHW

The design and patent protected XHW weighing levelling 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

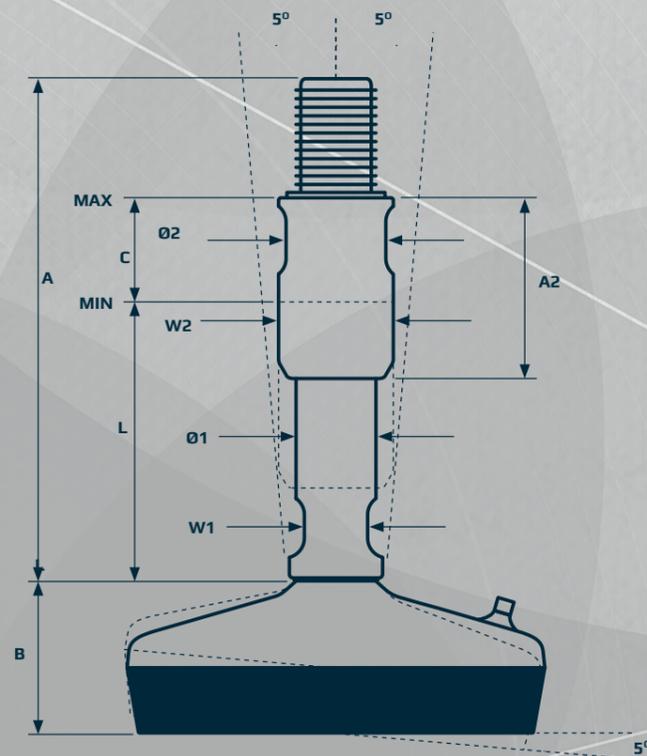
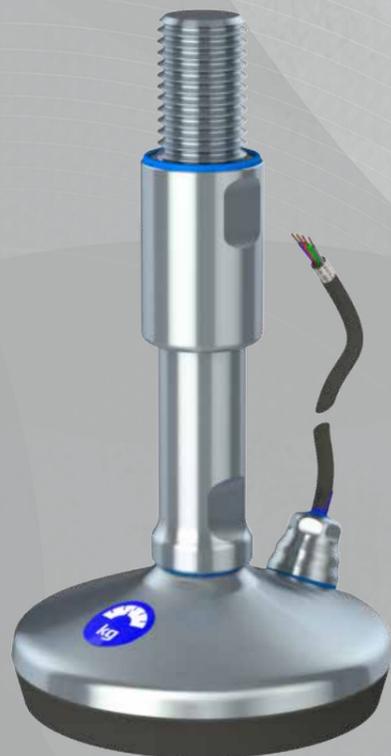
The XHW levelling foot is hygienically sealed to the floor by vulcanized FDA-approved, anti-vibration, anti-slip rubber, which blocks out bacteria underneath the footplate and protects the load cell.

- 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
- MINIMIZED CLEANING TIME
- MINIMIZED WATER USAGE



# CERTIFIED HYGIENIC WEIGHING LEVELLING FEET XHW

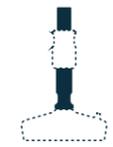
PRODUCT CODE	FOOT	SPINDLE	SLEEVE	LOAD CELL
EXAMPLE	XHW105	XHM1224150	RHOX2450	PR6211/32D1



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	XHW080
105	105	40	30/50/100/200/300	XHW105
125	125	45	500/1000/2000/3000/5000	XHW250
150	150	46	500/1000/2000/3000/5000	XHW250

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

LOAD CELL MIN. THREAD [OUTPUT]	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
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



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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHGW

The design and patent protected XHGW weighing levelling 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.

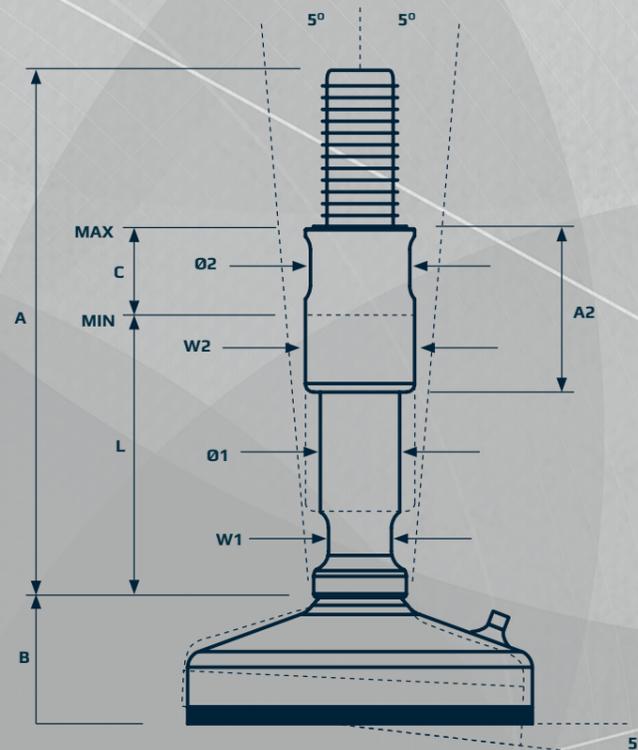
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

- 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**
-  **MINIMIZED CLEANING TIME**
-  **MINIMIZED WATER USAGE**



# CERTIFIED HYGIENIC WEIGHING LEVELLING FEET XHGW

PRODUCT CODE	FOOT - SPINDLE - SLEEVE - LOAD CELL
EXAMPLE	XHGW105 - XHJGM1220150 - RHOX2050 - PR6211/32D1



#### FOOT PLATE

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	XHGW105
150	149	45	500/1000/2000/3000/5000	XHGW150



#### SPINDLE

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210



#### SLEEVE

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

**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						PR6251/52L	PR6251/13L	PR6251/23L	PR6251/33L	PR6251/53L
PR6211/51D1						PR6251/52LA	PR6251/13LA	PR6251/23LA	PR6251/33LA	PR6251/53LA
PR6211/12D1										
PR6211/13D1										
PR6211/32D1										



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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHJW

The design and patent protected XHJW weighing levelling 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

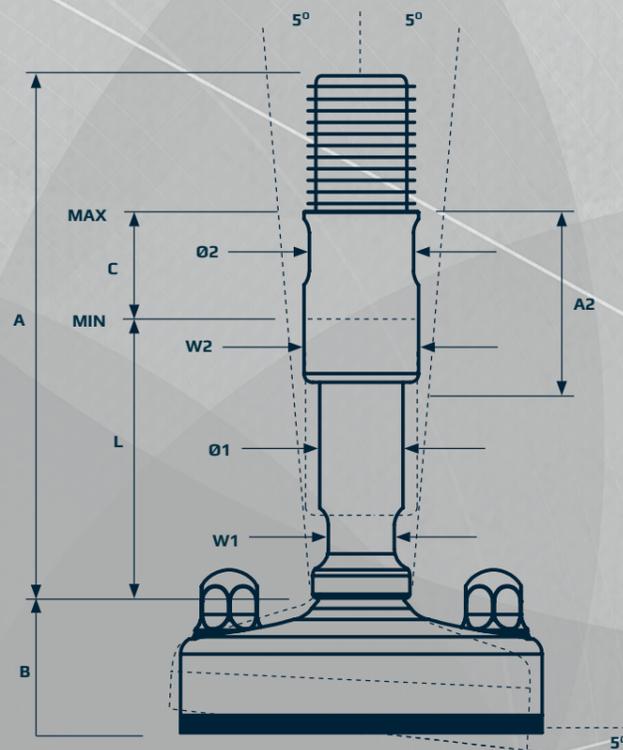
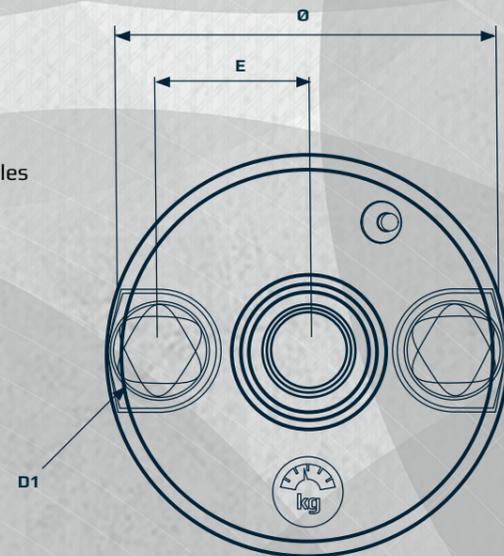
The XHJW is designed to be fastened to the floor by the two fixing holes in the footplate.

- 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
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



# CERTIFIED HYGIENIC WEIGHING LEVELLING FEET XHJW

PRODUCT CODE	FOOT - SPINDLE - SLEEVE - LOAD CELL
EXAMPLE	XHJW105 - XHJGM1220150 - RHOX2050 - PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLE POSITION E [mm]	HOLE DIAMETER D1 [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	37,75	13	30/50/100/200/300	XHJW105
150	149	45	58	13	500/1000/2000/3000/5000	XHJW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M20	150	76	17	20	48.200	XHM1220150
M20	210	106	17	20	48.200	XHM1220210
M24	150	76	19	24	69.200	XHM1224150
M24	210	106	19	24	69.200	XHM1224210
M30	150	76	24	30	110.200	XHM1230150
M30	210	106	24	30	110.200	XHM1230210
M36	150	76	30	32	160.200	XHM1236150
M36	210	106	30	32	160.200	XHM1236210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

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



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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHTW

-  **CERTIFIED HYGIENIC**
-  **MINIMIZED CLEANING TIME**
-  **MINIMIZED WATER USAGE**

The design and patent protected XHTW weighing levelling 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.

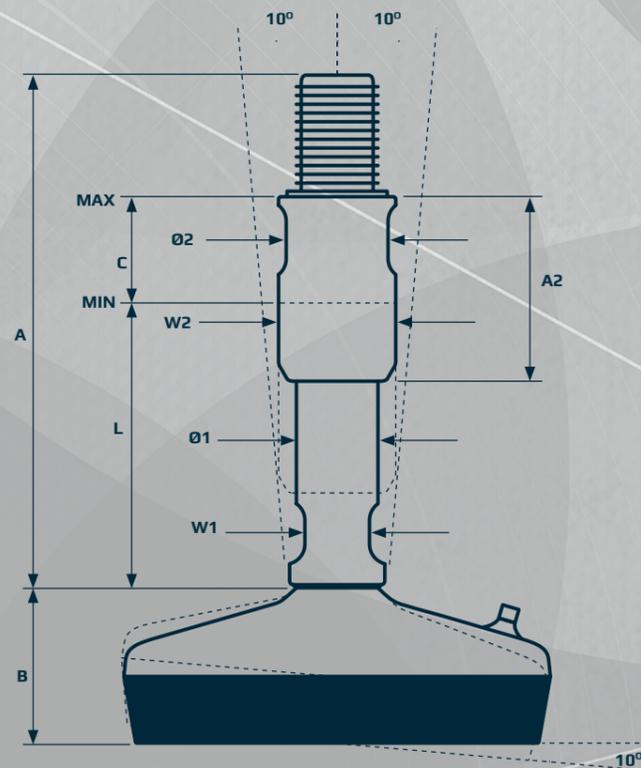
- Secured: Load cell is secured against hazardous mechanical external impacts
- Guided: Can obtain strong forces in all directions without affecting the load cell
- Protected: Against external influences like corrosion, temperatures and bacteria

The XHTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate. Additionally, the levelling 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 LEVELLING FEET XHTW



#### FOOT PLATE



#### SPINDLE



#### SLEEVE



PRODUCT CODE	FOOT - SPINDLE - SLEEVE - LOAD CELL
EXAMPLE	XHTW105 - XHT24150 - RHOX2450 - PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
80	80	39	30/50/100/200/300	XHW080
105	105	40	30/50/100/200/300	XHW105
125	125	45	500/1000/2000/3000/5000	XHW250
150	150	46	500/1000/2000/3000/5000	XHW250

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHT16150
M16	210	106	13	16	24.900	XHT16210
M20	150	76	17	20	48.200	XHT20150
M20	210	106	17	20	48.200	XHT20210
M24	150	76	19	24	69.200	XHT24150
M24	210	106	19	24	69.200	XHT24210
M30	150	76	24	30	110.200	XHT30150
M30	210	106	24	30	110.200	XHT30210
M36	150	76	30	32	160.200	XHT36150
M36	210	106	30	32	160.200	XHT36210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

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 4-20mA	PR6211/31D1	PR6211/51D1	PR6211/12D1	PR6211/13D1	PR6211/32D1	PR6251/52L PR6251/52LA	PR6251/13L PR6251/13LA	PR6251/23L PR6251/23LA	PR6251/33L PR6251/33LA

- 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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHGTW

The design and patent protected XHGTW weighing levelling 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

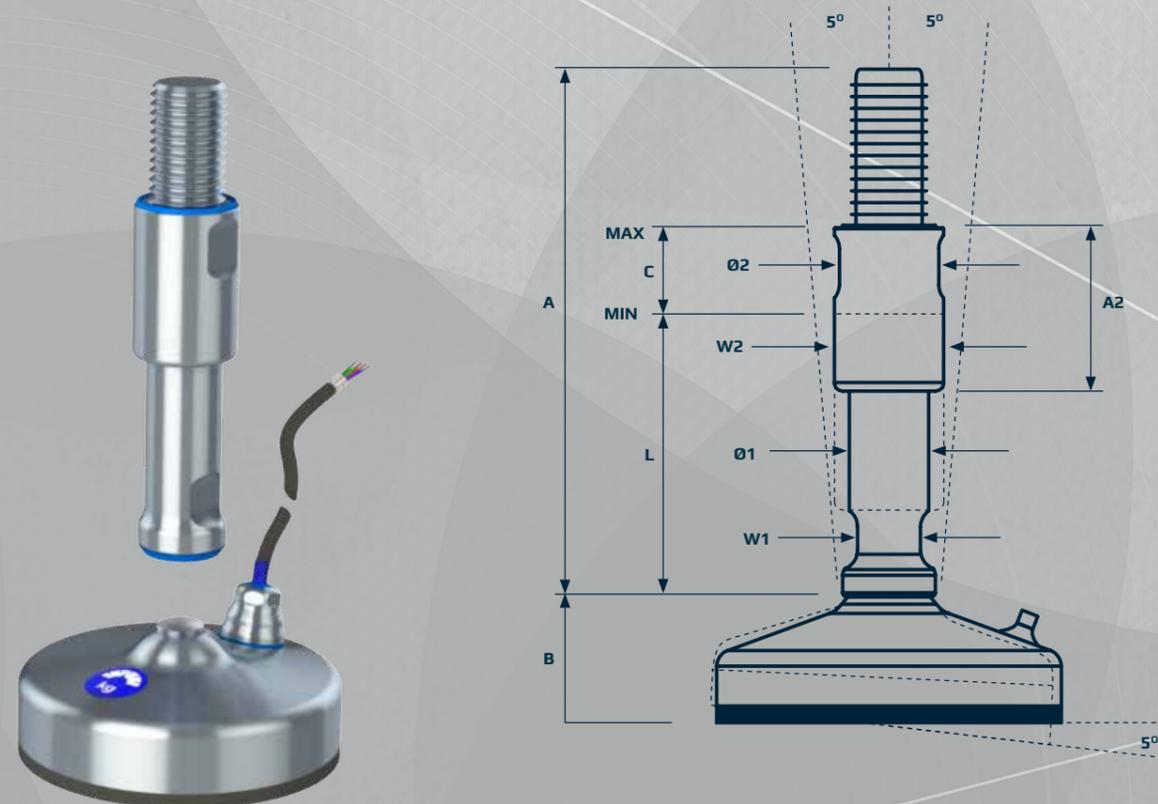
The XHGTW consists of a separated footplate and spindle connected by the diametrically centered elevation on the weighing footplate.

- 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

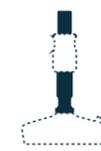
-  CERTIFIED HYGIENIC
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE



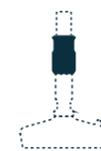
FOOT PLATE



SPINDLE



SLEEVE



# CERTIFIED HYGIENIC WEIGHING LEVELLING FEET XHGTW

PRODUCT CODE: FOOT - SPINDLE - SLEEVE - LOAD CELL  
EXAMPLE: XHGTW105 - XHT20150 - RHOX2050 - PR6211/32D1

TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	LOAD CELL NOM LOAD [KG]	ITEM CODE
105	104	39	30/50/100/200/300	XHGTW105
150	149	45	500/1000/2000/3000/5000	XHGTW150

THREAD [metric]	HEIGHT A [mm]	HEIGHT L [mm]	W1 [mm]	DIAMETER Ø1 [mm]	NOM LOAD [N]	ITEM CODE
M16	150	76	13	16	30.800	XHT16150
M16	210	106	13	16	24.900	XHT16210
M20	150	76	17	20	48.200	XHT20150
M20	210	106	17	20	48.200	XHT20210
M24	150	76	19	24	69.200	XHT24150
M24	210	106	19	24	69.200	XHT24210
M30	150	76	24	30	110.200	XHT30150
M30	210	106	24	30	110.200	XHT30210
M36	150	76	30	32	160.200	XHT36150
M36	210	106	30	32	160.200	XHT36210

THREAD [metric]	W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	ITEM CODE
M16	22	24,8	50	36	RHOX1650
M16	22	24,8	80	66	RHOX1680
M20	27	29,7	50	36	RHOX2050
M20	27	29,7	80	66	RHOX2080
M24	30	34,5	50	36	RHOX2450
M24	30	34,5	80	66	RHOX2480
M30	36	39,5	50	33	RHOX3050
M30	36	39,5	80	63	RHOX3080
M36	46	49,5	50	33	RHOX3650
M36	46	49,5	80	63	RHOX3680

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

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 = +/- 1,5 mm



# CERTIFIED HYGIENIC XHJSE (S)

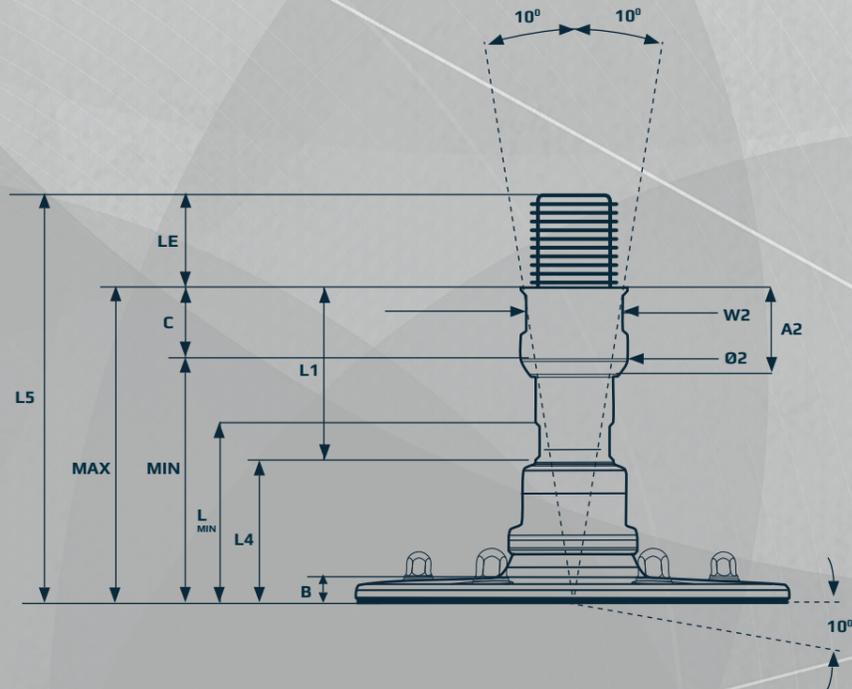
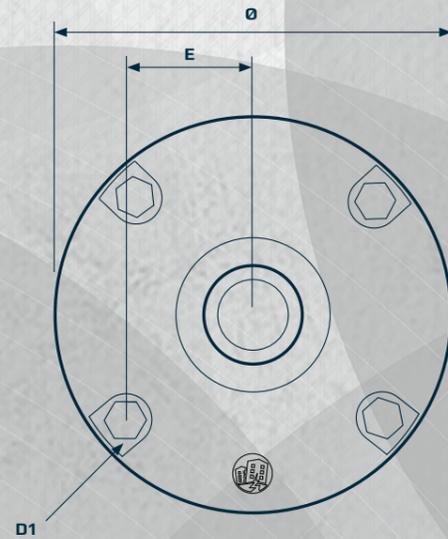
-  CERTIFIED HYGIENIC
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE

The design and patent protected seismic XHJSE (S) levelling 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 LEVELLING FEET XHJSE (S)



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

#### FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PCS]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM PULL TENSION [N]	ITEM CODE
150	149	19	3	M10x160	60	28000	XHJSE150(S)
200	199	16,5	4	M12x155	80	38000	XHJSE200(S)
250	249	15	4	M16x205	101	61.000	XHJSE250(S)
300	299	12	6	M20x250	121	80000	XHJSE300(S)

#### 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
M30	116	77	228	105	60.000	2.100	XHJSE(S)30150
M30	178	77	288	107	60.000	1.300	XHJSE(S)30210
M36	114	77	221	103	96.000	3.500	XHJSE(S)36150
M36	179	77	288	105	96.000	2.200	XHJSE(S)36210
M42	118	82	233	109	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	115	140.000	13.100	XHJSE(S)56200
M56	203	82	343	120	140.000	8.900	XHJSE(S)56260

#### SLEEVE



THREAD	DIAMETER W2 [mm]	DIAMETER Ø2 [mm]	HEIGHT A2 [mm]	ADJUSTMENT C [mm]	LEVELLING MAX [mm]	LEVELLING MIN [mm]	ITEM CODE
M30	38	41,8	55	33	193	160	RHOXS3055
M30	38	41,8	85	63	255	192	RHOXS3085
M36	46	49,8	55	36	191	158	RHOXS3655
M36	46	49,8	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  
= +/-1,5 mm



# CERTIFIED HYGIENIC XHJSE (L)

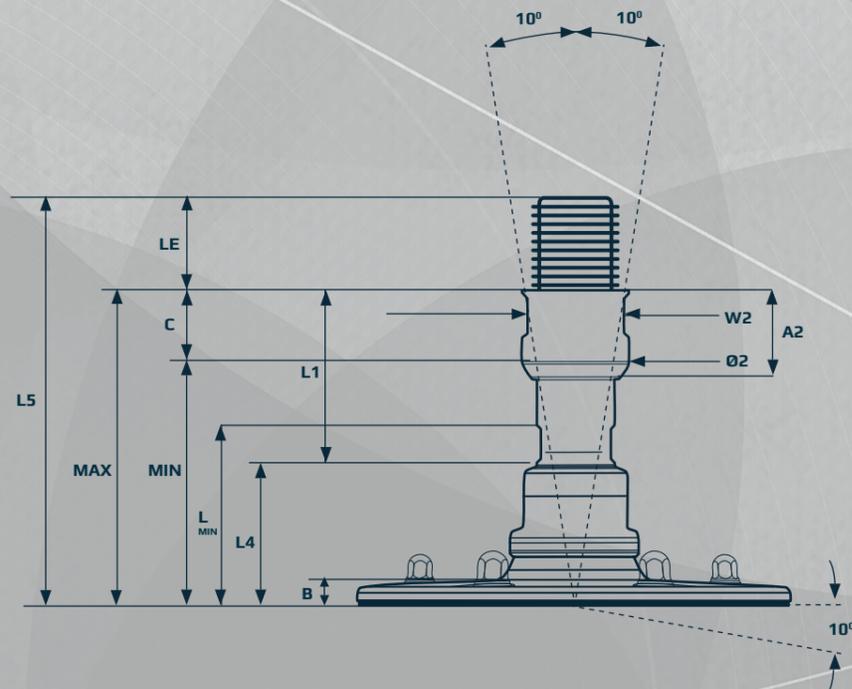
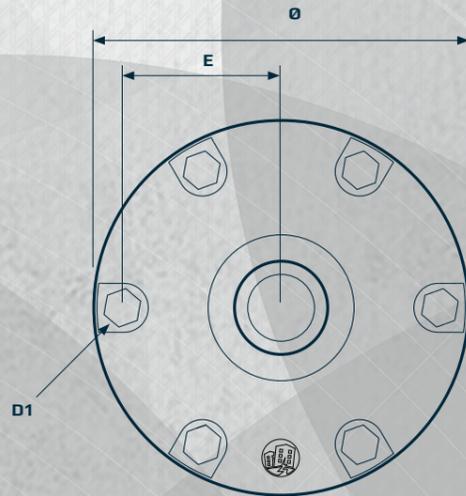
-  CERTIFIED HYGIENIC
-  MINIMIZED CLEANING TIME
-  MINIMIZED WATER USAGE

The design and patent protected seismic XHJSE (L) levelling 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 LEVELLING FEET XHJSE (L)



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

#### FOOT PLATE



TYPE	DIAMETER Ø [mm]	HEIGHT B [mm]	HOLES [PSC]	BOLT TYPE [SIZE]	POSITION E [mm]	NOM. PULL TENSION [N]	ITEM CODE
250	249	22	3	M16x240	101	63000	XHJSE250(L)
300	299	19	4	M20x250	121	82000	XHJSE300(L)
350	349	18	6	M20x250	142	90.000	XHJSE350(L)
400	399	17	6	M24x330	166	126000	XHJSE400(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	151	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

#### SLEEVE



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	96	104	115	70	355	285	RHOXS90115

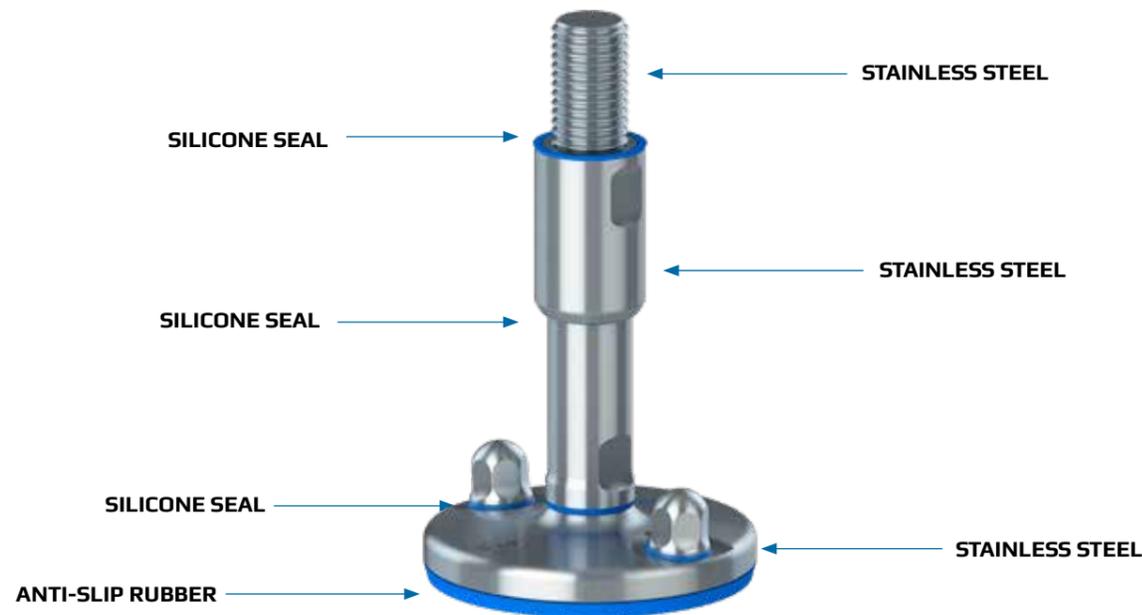


Maximum nominal load  
Tolerance of total height

= Depends on horizontal forces, request load diagram  
= +/-1,5 mm



## CLEANING & MAINTENANCE CERTIFIED HYGIENIC LEVELLING 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 levelling 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 levelling 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 levelling foot and install a new one. An assembled levelling foot cannot be separated.
3. Load on the levelling foot must be obtained in order for the footplate to be hygienically sealed to the floor.
4. For a levelling 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 levelling 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 levelling feet and should always be handed over to the end-user.

- 0A. Prior to installation of the levelling 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 levelling 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 levelling 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 levelling 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 levelling foot and cover the thread.



**If the levelling 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 levelling feet and should always be handed over to the end-user.

**0A.** Prior to installation of the levelling 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 levelling 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 levelling 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 levelling 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 levelling foot is secured against over-adjustment and exposure of the thread.**



## INSTALLATION FLOOR FIXING LEVELLING FEET

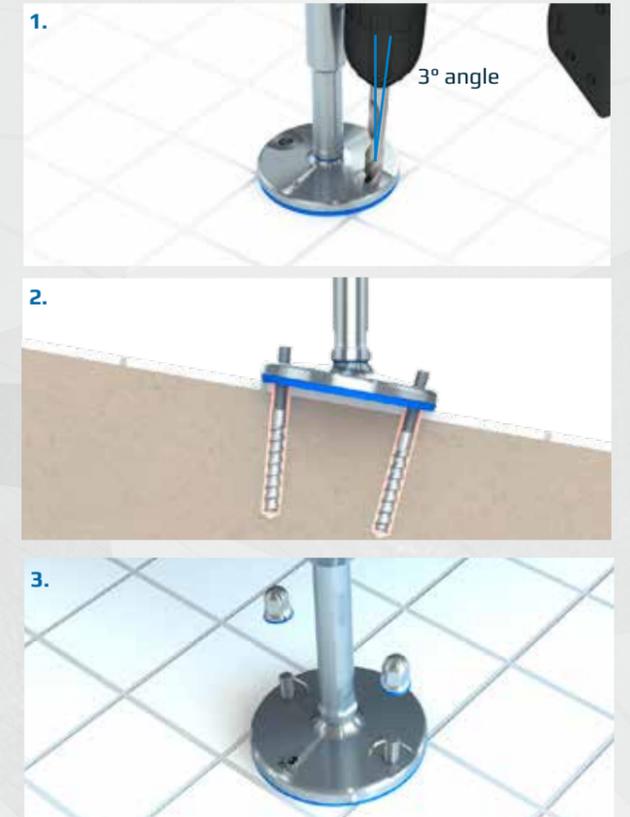
It is important to follow these instructions in order to ensure the certified hygienic design and functionality.

This documentation is enclosed with the levelling 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 levelling 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 CERTIFIED HYGIENIC LEVELLING 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 CERTIFIED HYGIENIC LEVELLING 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 levelling 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 levelling feet.

# DECLARATION OF CONFORMITY

## CERTIFIED HYGIENIC LEVELLING FEET

### ZHJS, ZHJC, ZHFVJ



#### 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 levelling 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

## CERTIFIED HYGIENIC LEVELLING FEET

### ZHJS, ZHJC, ZHFVJ

#### The declaration of materials concerns the following Applications

**Application:** **Steel components, e.g. spindle, sleeve and cover for foot**  
 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 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 levelling feet are suitable for use in all ATEX zones.

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

**Application:** **Sealing ring between steel components for NGI's machine feet.**  
 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.

## DECLARATION OF CONFORMITY CERTIFIED HYGIENIC LEVELLING FEET XH, XHT, XHG, XHJ, XHFV, XHFVT, XHFVG, XHFVJ

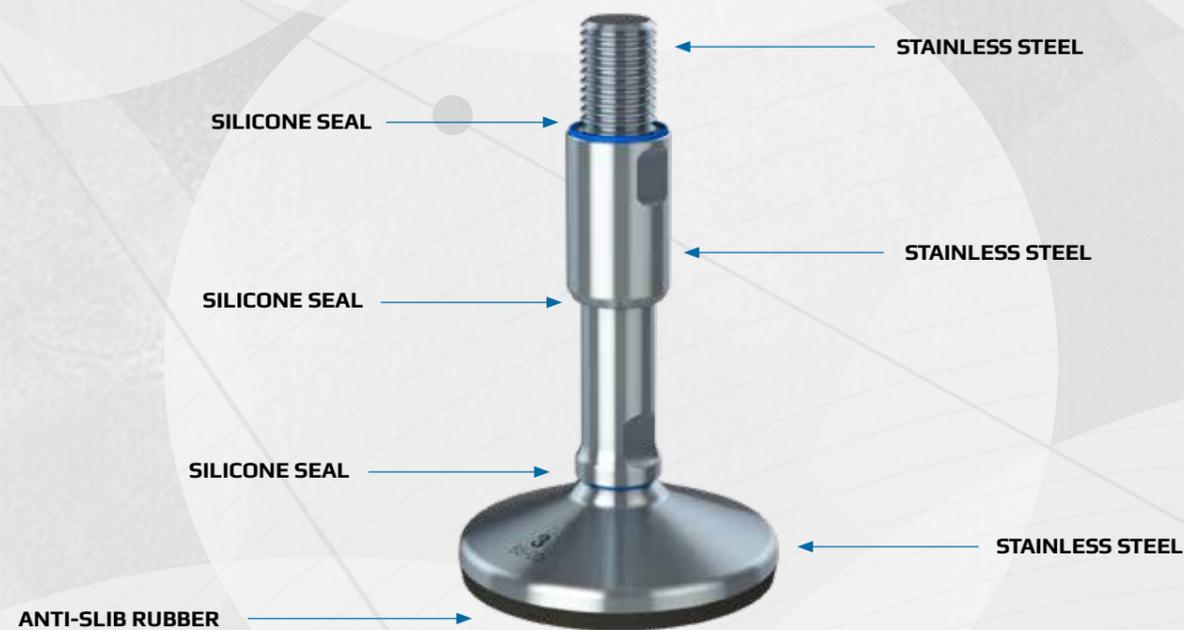


NGI fundamentally adheres to all applicable directives and standards. All information is based on the current state of knowledge and is subject to change. We attentively follow the revisions and amendments to these directives and will design our products accordingly. This ensures that products from NGI 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 CERTIFIED HYGIENIC LEVELLING 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 levelling 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 levelling 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 levelling feet.

# DECLARATION OF CONFORMITY

## CERTIFIED HYGIENIC LEVELLING FEET

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



#### 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.

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3-A sanitary standard for machine levelling 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

## CERTIFIED HYGIENIC LEVELLING FEET

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

#### 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.

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 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 levelling 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

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:

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

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.