

LYNDEX NIKKEN



CLAMPING CATALOG

- > Zero Point Clamping System
- > Modular Clamping System

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LYNDEX NIKKEN

The system provider
for your production

MODULAR CLAMPING RAIL SYSTEM

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Very little has changed over the years in many regards: Batch sizes are decreasing, the required response times are getting shorter, and warehousing and the associated capital need to be kept to a minimum. Ideally, all this should be combined with increasing spindle operating times in order to ensure a competitive machining hourly rate.

Furthermore, it is often difficult to expand capacity – high investment costs for new machines and a shortage of skilled personnel are just two examples of the challenges in this regard.

Over the years, we have developed into the point of contact for minimizing set up and changeover times. With our zero point clamping system and the associated clamping devices, we can guarantee process reliability and maximum flexibility in a rapidly evolving world.

With us, you are opting for a full-service supplier, from a zero point clamping system or modular clamping rail system to perhaps the most flexible automation from a single source.

CONVENTIONAL CLAMPING



Time-consuming positioning of the component on the machine table with many clamping devices. Furthermore, interfering contours often occur and workflow is difficult to interrupt.

FIELDS OF APPLICATION FOR THE ZERO POINT CLAMPING SYSTEM



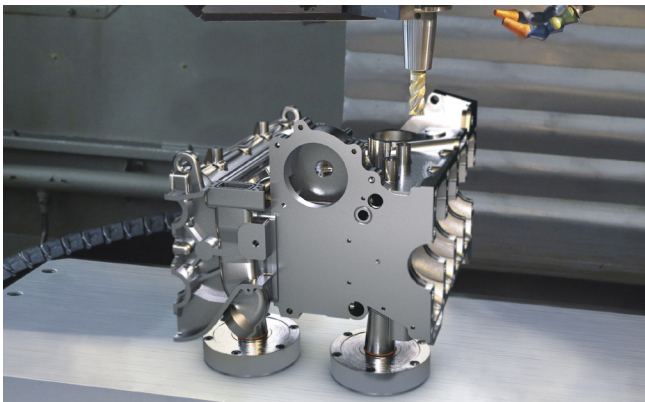
Direct component clamping

Clamping pots optionally integrated into the machine table for optimum usage of the machining area.



Clamping tower

Ideal for horizontal machining thanks to its low weight.



Individual clamping options

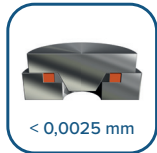
Freely designable clamping system with freely selectable pitch.



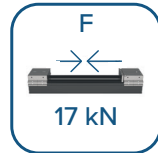
Large component clamping

High clamping forces enable the clamping of large components.

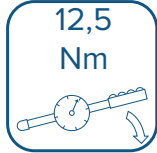
LEGEND



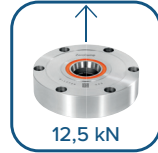
Repetition accuracy <math>< 2.5 \mu\text{m}</math>
(0.1 thou)



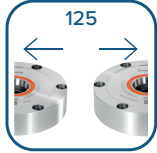
Max. clamping force
(precise details can be found in the relevant operating instructions)



Maximum tightening torque for jaw clamping
(precise details can be found in the relevant operating instructions)



Pull-out force



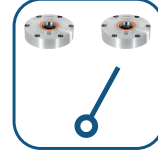
Pitch



Clamping stud



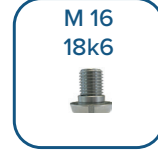
Clamping pot height



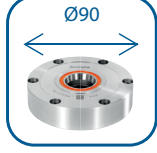
Some with individual actuation



Indexed clamping pot
(*italic indicates a blind hole*)



Hole for the clamping stud



Clamping pot size



Product designed for automation

Pictograms all in metric si units

BRIEF OVERVIEW OF ACCESSORIES FOR THE ZERO POINT CLAMPING SYSTEM

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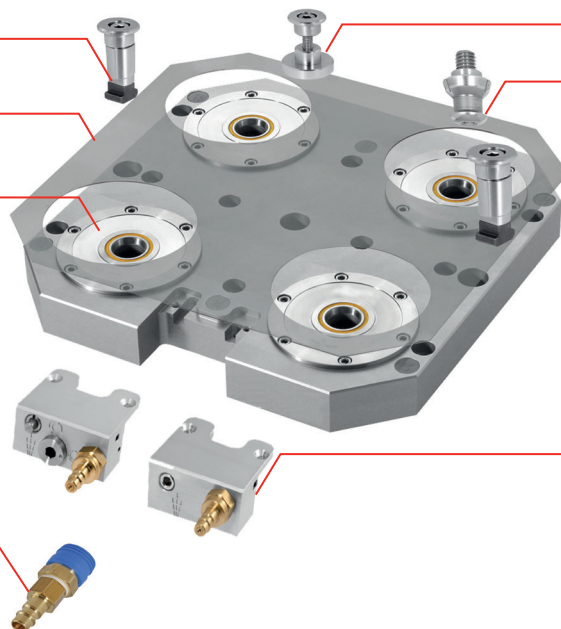
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THE CENTER PIECE

All components are of stainless steel or steel with corrosion protection.
Only 5.5 bar (87 psi) air pressure is required to release the clamping studs.

Centered clamping with zero play

in the hardened steel cone.

Radial springs

mounted in nitrile butadiene rubber.

Clamping pot housing

Non-wearing technology

Clamping plates provide the necessary clamping force.

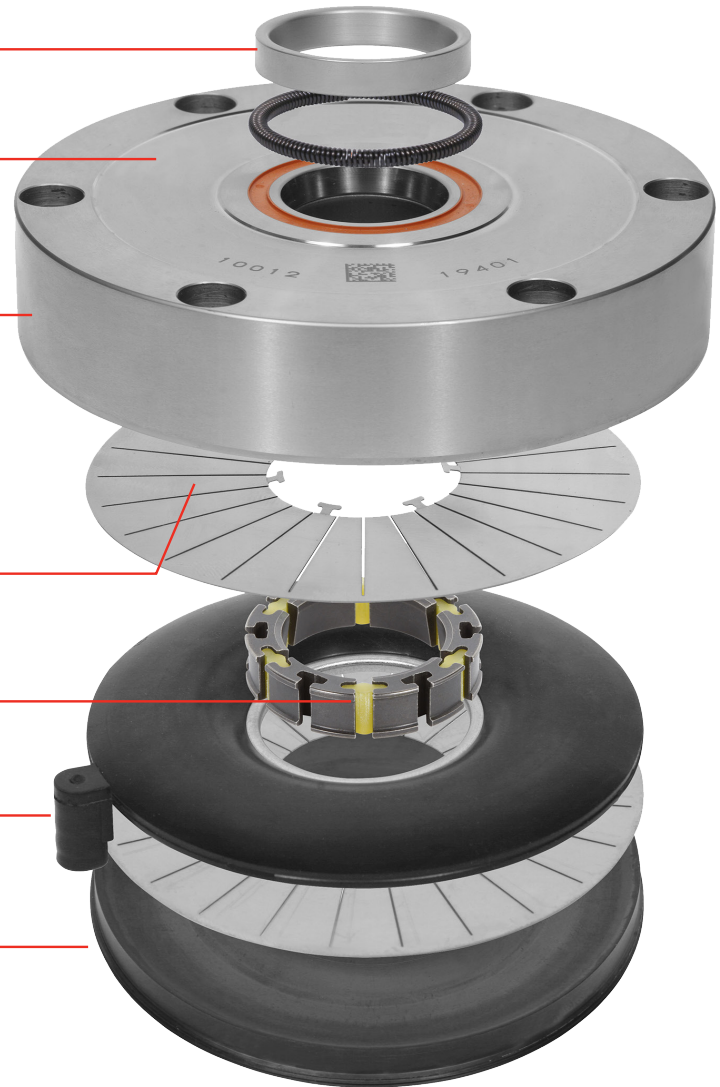
Locking unit

Compressed air connection for release

Cover

Simple access

Low weight. Installed height from 36 mm (1.4 inch). Base plate of surface treated high-tensile aluminium.



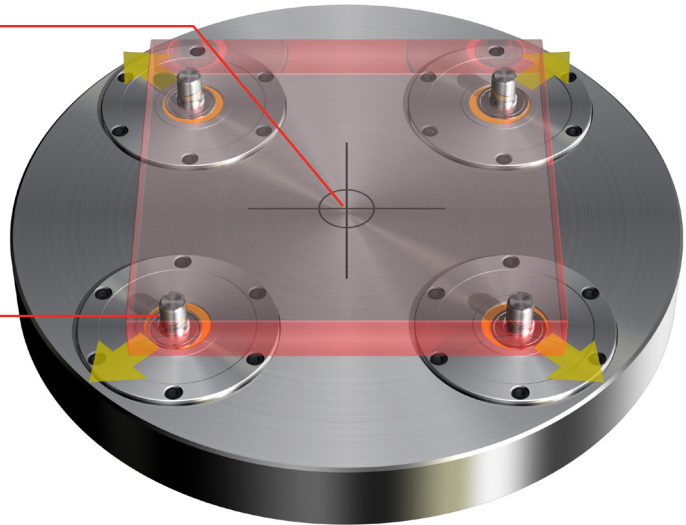
THERMAL SYMMETRY - REFERENCE TO THE CENTER AT ALL TIMES

Absolute zero point

Compensation for thermal expansion is always symmetrical about the center axis.

Just one type of clamping stud

No displacement of the zero point.

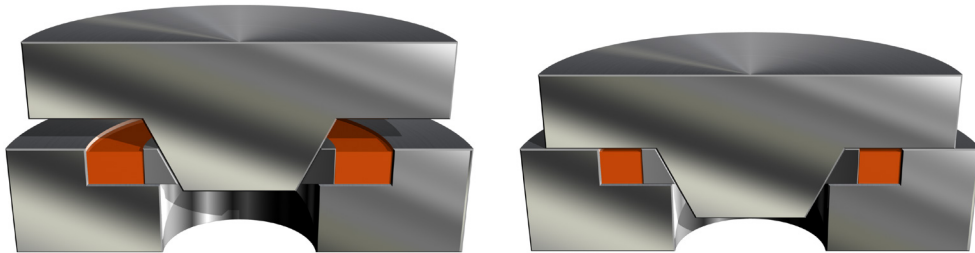


HSK principle

Systems operate on the same principle as an HSK tool arbor taper. The resilience of the interface ensures zero radial play, together with the axial position relative to the axial face.

Repetition accuracy < 2.5 µm (0.1 thou)

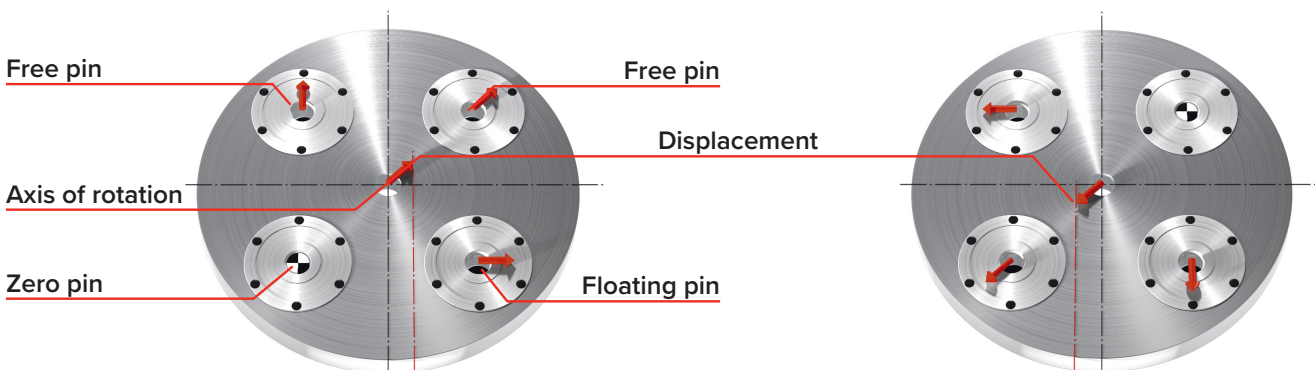
Gauge errors up to ± 0.1 mm (0.004 inch) can be compensated over two clamping pots.



DISADVANTAGE OF THE CLASSIC ZERO POINT CLAMPING SYSTEM

Axis at 0°

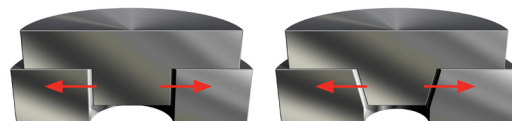
Axis at 180°



Positioning via a cylindrical or conical clearance fit.

Example:

Clearance fit $\varnothing 32 \text{ H5/h5} = 22 \mu\text{m}$ (0.9 thou)

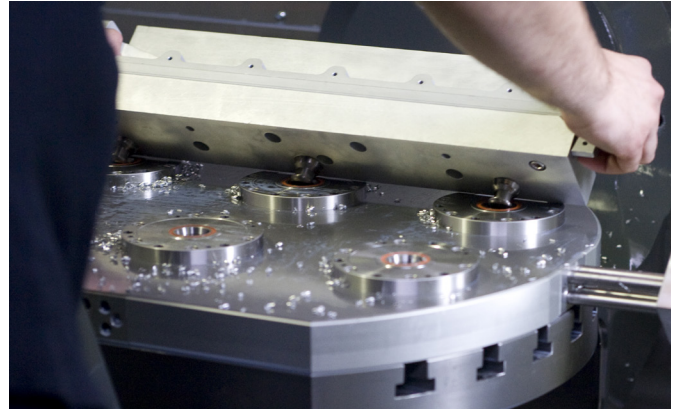


UNIQUE BENEFITS

ZERO POINT	Conventional Systems
<p>Very high accuracy using the HSK principle. On insertion of the stud, the tapered ring of the clamping pot expands slightly within its resilient range. This results in an absolutely zero-play high precision seating with a repetition accuracy of 2.5 µm (0.1 thou).</p>	<p>Usually a mating fit is necessary (for instance 32 mm h5/H5 for studs and sockets). The combination specified permits a minimum play of 0 µm and a maximum play of 22 µm (0.9 thou). Under such conditions, how can repeat accuracies up to 2.5 µm (0.1 thou) be achievable in series production?</p>
<p>Just one type of clamping stud is required. Logistically simple to manage, since there is only one type of stud that must be screwed into the available stud hole. No differentiation between zero pins, floating pins and free pins.</p>	<p>In general uses three types of studs (zero pins, floating or sword pins, and free pins). Logistically complicated. Documentation must be maintained for each fixture detailing which type of stud must be fitted at each position and at what angular position. High risk of errors!</p>
<p>Thermal symmetry Compensates for thermal effects and for pitch errors. The tapered rings always compensate errors relative to the center of the clamping points. (For instance on a round table the center of the pallet always remains centered on the axis of rotation).</p>	<p>Rigid system with 3 different types of stud. Thermal effects and pitch errors lead to asymmetrical displacement relative to the zero pin. (On a round table the center of the pallet is displaced away from the axis of rotation).</p>
<p>No self-locking In the event of a crash the fixture or the clamping device yields and thereby can save the machine spindle from possible damage. For instance in the event of failure of the energy supply push-out screws can be used to remove the fixture.</p>	<p>With a self-locking system, the result of a crash is the greatest possible damage. In the event of failure of the energy supply, in most cases the fixture must be destroyed in order to remove the pallet.</p>
<p>No tilting Uncomplicated insertion and removal, even if skewed or significantly off-center.</p>	<p>In some cases the component must be positioned very precisely and parallel for insertion or removal, because cylindrical or tapered clamping pins with minimum taper must be used. The removal especially of highly asymmetric heavy components is very problematic.</p>
<p>Pneumatic low-height system The patented design of the spring retainer guarantees very high clamping forces. Normal workshop air pressure is sufficient to release the clamping fixture.</p>	<p>Hydraulic systems have inherent disadvantages: Pump - pipework - collisions - leakage - bleeding etc. Pneumatic systems are often installed at significantly greater heights.</p>
<p>Patented design, simple assembly. High reliability is achieved by the use of extremely few and simple components. Even chips cannot compromise the functional principle.</p>	<p>Complex mechanisms with ball cages, pistons, actuators and other components. When they are clogged with chips there is always the risk they will jam or malfunction.</p>

Direct clamping

Direct clamping of the components on to a base unit. Holes as sockets for the clamping studs are specified at the design stage. Quicker and more accurate changeover (also across machines) of components.



Turning

Also for turning operations the productivity advantages are used to best advantage with pre-balanced base units.



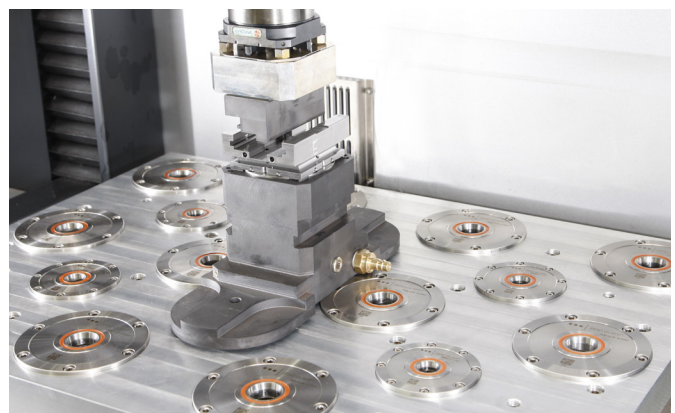
Quality assurance

This can be used throughout the entire process chain, it is also the ideal complement for your coordinate measuring machine.



Spark erosion

Reliable operation even in the presence of the dielectric.



CLAMPING POTS OVERVIEW

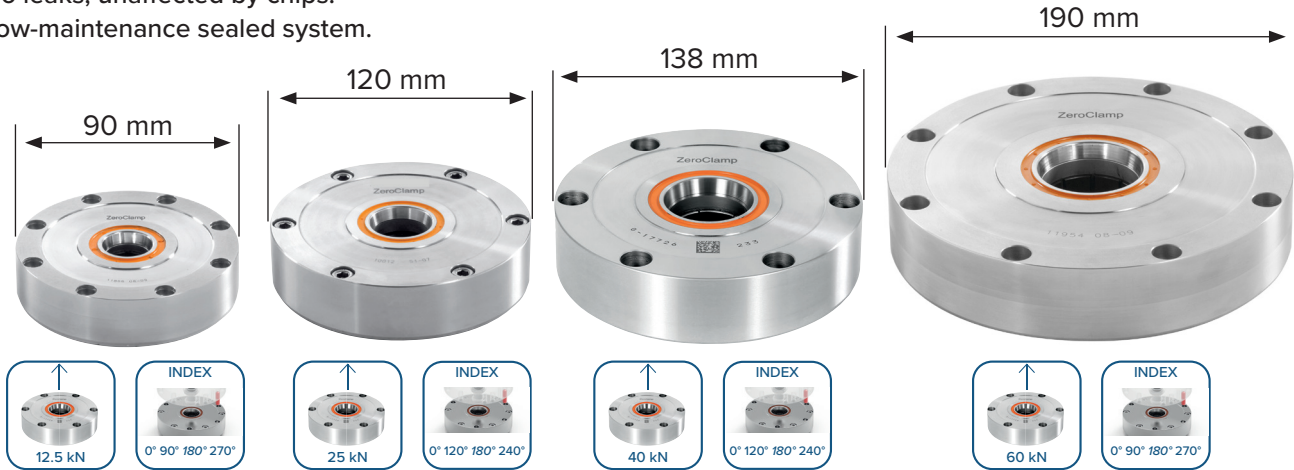
The clamping pot family consists of four clamping pots ranging from Ø 90 mm (3.5 inch) to Ø 190 mm (7.5 inch).

Clamping forces to 60 kN (13,500 lbf) offer security even when performing heavy-duty machining.

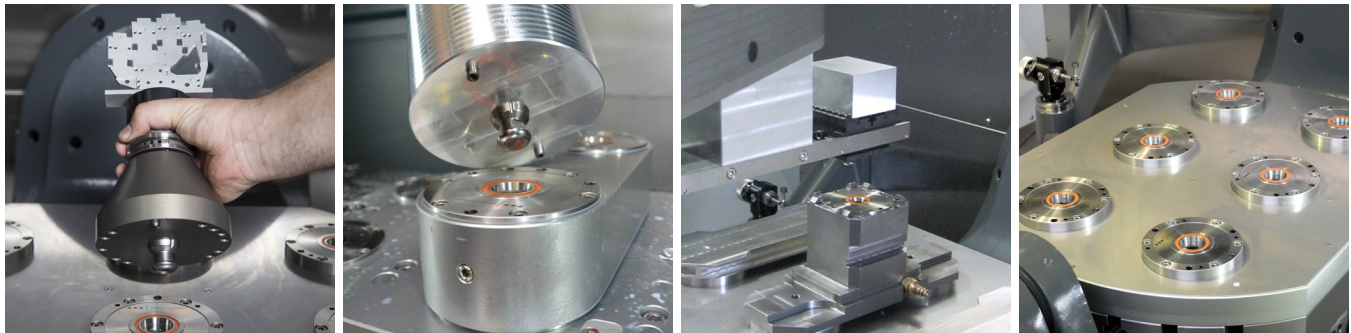
All clamping pots deliver a repetition accuracy < 0.0025 mm (0.0001 inch).

No leaks, unaffected by chips.

Low-maintenance sealed system.



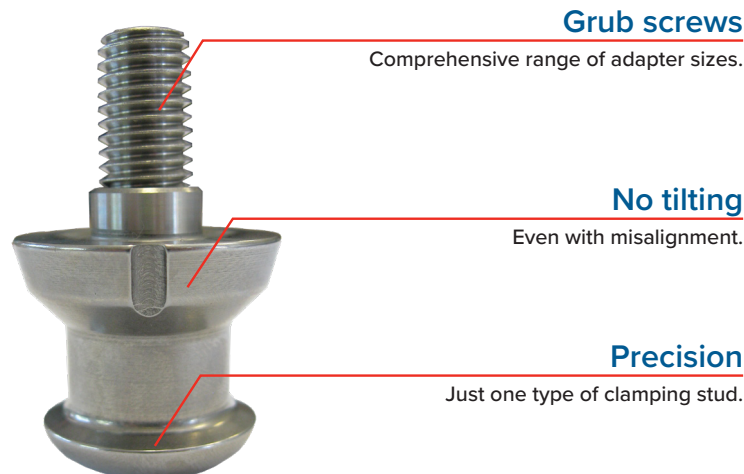
Clamping pots with indexing holes enable the clamping of a component on only one clamping pot.



CLAMPING STUD OVERVIEW

Overlapping fit sizes permit **free and variable** clamping of a component on various different clamping pot sizes. For the zero point clamping system you need **just one type of clamping stud** (no differentiation between zero pins, floating pins and free pins).

-> Process reliability through very simple application.



CLAMPING POT Ø 90 MM (3.5 INCH)



Application:

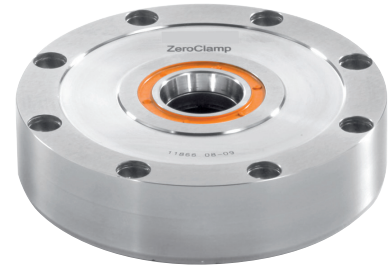
For direct clamping of components or clamping fixtures.

Scope of supply:

Clamping pot, 8 screws for attachment, 3 dowel pins (only for indexed clamping pots), O-rings and compressed air feed nipples.

Note:

We recommend the use of dust caps WH-ZP90-ACC-CAP for the securing screws. This prevents the accumulation of dirt.



Part No.	WH-ZP90-STD	WH-ZP90-INDX
Version	without orientation	with orientation
Clamping force	12.5 kN (2800 lbf)	12.5 kN (2800 lbf)
Weight	0.72 kg (1.59 lbs)	0.71 kg (1.57 lbs)

DUST CAPS

Part No.	Description
WH-ZP90-ACC-CAP	Dust cap set 50 units

CLAMPING STUD FOR POT Ø 90 MM (3.5 INCH)

Application:

For clamping components or fixtures in the clamping pot Ø 90 mm (3.5 inch).

Scope of supply:

Clamping studs and grub screws.

Part No.	WH-ZP90-STUD-12M10	WH-ZP90-STUD-14M12
Size	12M10	14M12
Fit	12k6	14k6
Thread	M10	M12



CLOSURE STUD FOR POT Ø 90 MM (3.5 INCH)

Application:

For unused clamping pots Ø 90 mm (3.5 inch), to protect them against chips and dirt. If clamping pots are not required, they must be fitted with a closure stud.

Part No.	WH-ZP90-SSTUD-V
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CLAMPING POT Ø 120 MM (4.7 INCH)



Application:

For direct clamping of components or clamping fixtures.

Scope of supply:

Clamping pot, 6 screws for attachment, 3 dowel pins (only for indexed clamping pots), O-rings and compressed air feed nipples.

Note:

We recommend the use of dust caps WH-ZP120-ACC-CAP for the securing screws. This prevents the accumulation of dirt. Available with optional compressed air feed/monitoring (see page 15 onward).



Part No.	WH-ZP120-STD	WH-ZP120-INDX
Version	without orientation	with orientation
Clamping force	25 kN (5500 lbf)	25 kN (5500 lbf)
Weight	1.84 kg (4.06 lbs)	1.80 kg (3.97 lbs)

DUST CAPS

Part No.	Description
WH-ZP120-ACC-CAP	Dust cap set 50 units

CLAMPING STUD FOR POT Ø 120 MM (4.7 INCH)

Application:

For clamping components or fixtures in the clamping pot Ø 120 mm (4.7 inch).

Scope of supply:

Clamping studs and grub screws.

Part No.	WH-ZP120-STUD-12M10	WH-ZP120-STUD-16M10	WH-ZP120-STUD-18M12	WH-ZP120-STUD-18M16
Size	12M10	16M10	18M12	18M16
Fit	12k6	16k6	18k6	18k6
Thread	M10	M10	M12	M16



CLOSURE STUD FOR POT Ø 120 MM (4.7 INCH)

Application:

For unused clamping pots Ø 120 mm (4.7 inch), to protect them against chips and dirt. If clamping pots are not required, they must be fitted with a closure stud.

Part No.	WH-ZP120-SSTUD-V
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CLAMPING POT Ø 138 MM (5.4 INCH)



Application:

For direct clamping of components or clamping fixtures.

Scope of supply:

Clamping pot, 6 screws for attachment, 3 dowel pins (only for indexed clamping pots), O-rings and compressed air feed nipples.

Note:

We recommend the use of dust caps WH-ZP138-ACC-CAP for the securing screws. This prevents the accumulation of dirt. Available with optional compressed air feed/monitoring (see page 15 onward).



Part No.	WH-ZP138-STD	WH-ZP138-INDX
Version	without orientation	with orientation
Clamping force	40 kN (9000 lbf)	40 kN (9000 lbf)
Weight	2.74 kg (6.04 lbs)	2.67 kg (5.89 lbs)

DUST CAPS

Part No.	Description
WH-ZP138-ACC-CAP	Dust cap set 50 units

CLAMPING STUD FOR POT Ø 138 MM (5.4 INCH)

Application:

For clamping components or fixtures in the clamping pot Ø 138 mm (5.4 inch).

Scope of supply:

Clamping studs and grub screws.



Part No.	WH-ZP138-STUD-12M10	WH-ZP138-STUD-18M12	WH-ZP138-STUD-18M16	WH-ZP138-STUD-25M16	WH-ZP138-STUD-25M10
Size	12M10	18M12	18M16	25M16	25M10
Fit	12k6	18k6	18k6	25k6	25h6
Thread	M10	M12	M16	M16	M10

CLOSURE STUD FOR POT Ø 138 MM (5.4 INCH)

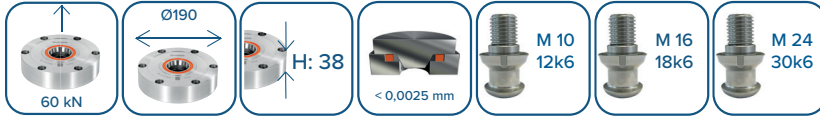
Application:

For unused clamping pots Ø 138 mm (5.4 inch), to protect them against chips and dirt. If clamping pots are not required, they must be fitted with a closure stud.

Part No.	WH-ZP138-SSTUD-V
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CLAMPING POT Ø 190 MM (7.5 INCH)



Application:

For direct clamping of components or clamping fixtures.

Scope of supply:

Clamping pot, 8 screws for attachment, 3 dowel pins (only for indexed clamping pots), O-rings and compressed air feed nipples.



Part No.	WH-ZP190-STD	WH-ZP190-INDX
Version	without orientation	with orientation
Clamping force	60 kN (13500 lbf)	60 kN (13500 lbf)
Weight	5.56 kg (12.26 lbs)	5.45 kg (12.26 lbs)

CLAMPING STUD FOR POT Ø 190 MM (7.5 INCH)

Application:

For clamping components or fixtures in the clamping pot Ø 190 mm (7.5 inch).

Scope of supply:

Clamping studs and grub screws.

Part No.	WH-ZP190-STUD-18M16	WH-ZP190-STUD-30M24
Size	18M16	30M24
Fit	18k6	30k6
Thread	M16	M24



CLOSURE STUD FOR POT Ø 190 MM (7.5 INCH)

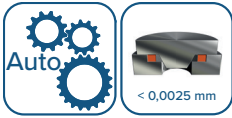
Application:

For unused clamping pots Ø 190 mm (7.5 inch), to protect them against chips and dirt. If clamping pots are not required, they must be fitted with a closure stud.

Part No.	WH-ZP190-SSTUD-V
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CLAMPING POTS WITH MONITORING VALVE



Pneumatic monitoring of the clamping situation. The **support of the component/fixture** as well as the **position of the clamping mechanism** can thus be examined via the dynamic pressure. This ensures even more secure clamping of your component and reliable monitoring even for heavy components, as the position of the clamping mechanism is monitored in parallel. A control unit is recommended for the monitoring of clamping pots.

Note:

The control unit offers various operating and monitoring functions. In an automated version, it is possible to connect to the machine control as well as the sealing air.

Part No.	WH-ZP120-STD-SENS	WH-ZP120-INDX-SENS	WH-ZP138-STD-SENS	WH-ZP138-INDX-SENS
Version	Ø 120 mm (4.7 inch)	Ø 120 mm (4.7 inch) with orientation	Ø 138 mm (5.4 inch)	Ø 138 mm (5.4 inch) with orientation
Clamping force	25 kN (5500 lbf)	25 kN (5500 lbf)	40 kN (9000 lbf)	40 kN (9000 lbf)
Weight	1.90 kg (4.19 lbs)	1.89 kg (4.17 lbs)	2.85 kg (6.28 lbs)	2.65 kg (5.84 lbs)

+ Added security

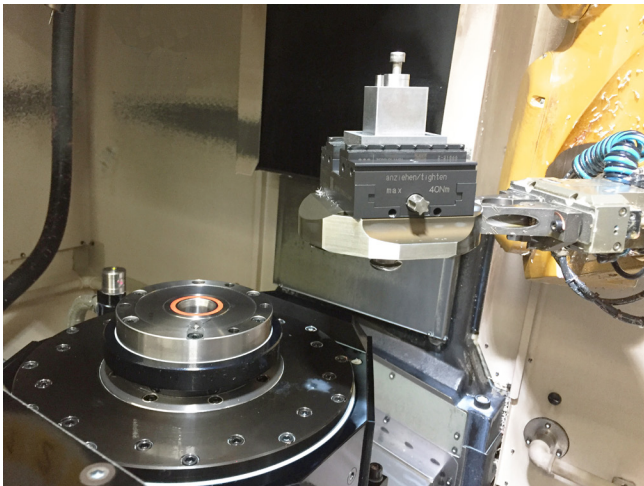
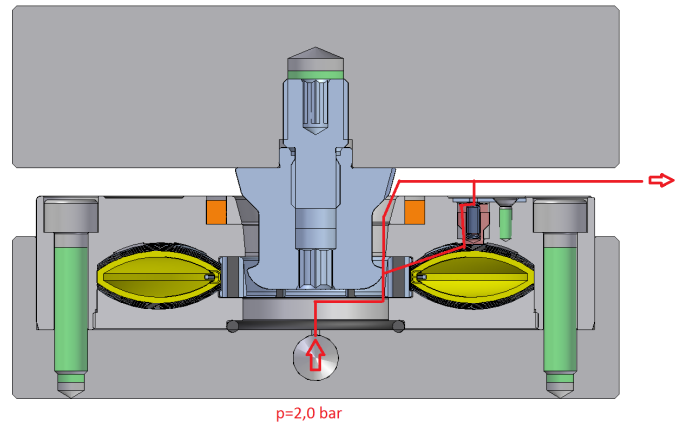
Monitoring of the clamping situation in two areas. Support and clamping mechanism.

+ Optimized costs

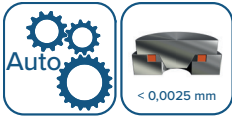
The clamping and support situation can be monitored at all times without the need for further sensors.

+ In shape for the future

Ideal for automation, even at a later date.



4-CHANNEL CONTROL - FLEXIBILITY IN EVERY SITUATION



The 4-channel control enables the **monitoring and operation of the first and second level** (see illustration). The support of the component/clamping device can thus be monitored at any time via the dynamic pressure and the clamping devices can be operated using the compressed air. Ideal for the zero point clamping system, from **manual up to fully automated operation**.

Note:

Unused 4-channel clamping pots require special protection against dirt and chips.

Part No.	WH-ZP120-STD-AUTO	WH-ZP120-INDX-AUTO	WH-ZP138-STD-AUTO	WH-ZP138-INDX-AUTO
Version	Ø 120 mm (4.7 inch)	Ø 120 mm (4.7 inch) with orientation	Ø 138 mm (5.4 inch)	Ø 138 mm (5.4 inch) with orientation
Clamping force	25 kN (5500 lbf)	25 kN (5500 lbf)	40 kN (9000 lbf)	40 kN (9000 lbf)
Weight	1.78 kg (3.92 lbs)	1.70 kg (3.75 lbs)	2.92 kg (6.44 lbf)	2.79 kg (6.15 lbf)

**Variant 1:
Extension base**

Opening and discharging via compressed air, as well as dynamic pressure monitoring.

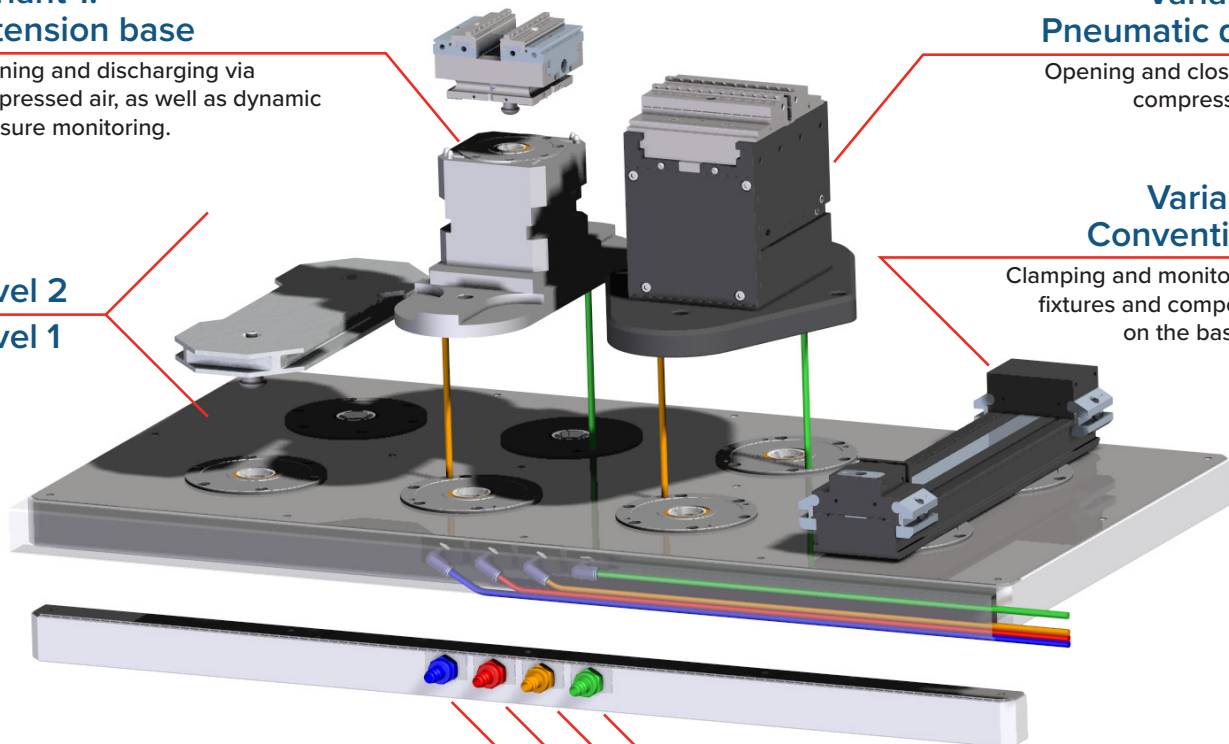
**Variant 2:
Pneumatic drive**

Opening and closing via compressed air.

**Variant 3:
Conventional**

Clamping and monitoring of fixtures and components on the base unit.

Level 2
Level 1



Opening the clamping pots on level 1

Monitoring and discharging on level 1

Compressed air feed for level 2 for operation or special function

Compressed air feed for level 2 for operation or special function

STANDARD BASE UNITS CLAMPING POT Ø 120 MM



Version:

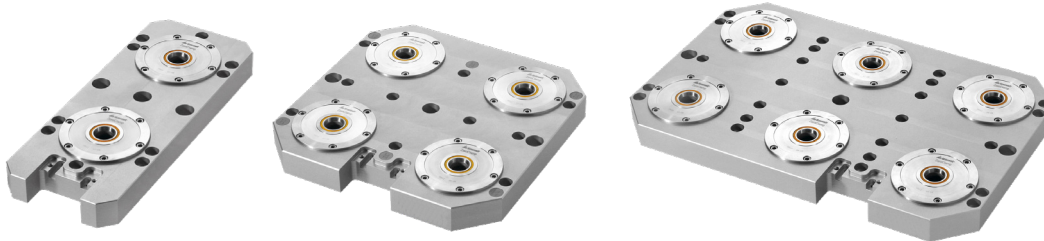
Base units with clamping pots Ø 120 mm (4.7 inch), anodized. Height 44 mm (1.7 inch).
 All holes for T-slot spacings of 63, 100, and 125 mm (2.5, 3.9 and 4.9 inch). Center hole Ø 25 H7.

Scope of supply:

Base unit with mounted clamping pots.

Note:

Cover panel and connection block (WH-ZP-ACC-AIRBLCK-STD/WH-ZP-ACC-AIRBLCK-PRE) are optionally available.



Part No.	Suitable cover plate	Description	L mm/inch	W mm/inch
WH-ZP120-BASE2-P200	WH-ZP120-ACC-CP2	Standard 2-pot base unit	416/16.4	166/6.5
WH-ZP120-BASE4-P200	WH-ZP120-ACC-CP4	Standard 4-pot base unit	366/14.4	366/14.4
WH-ZP120-BASE6-P200	WH-ZP120-ACC-CP6	Standard 6-pot base unit	366/14.4	566/22.3
WH-ZP120-BASE8-P200	WH-ZP120-ACC-CP8	Standard 8-pot base unit	366/14.4	766/30.2

STANDARD BASE UNITS CLAMPING POT Ø 138 MM



Version:

Base units with clamping pots Ø 138 mm (5.4 inch), anodized. Height 54 mm (2.1 inch).
 All holes for T-slot spacings of 63, 100, and 125 mm (2.5, 3.9 and 4.9 inch). Centre hole Ø 25 H7.

Scope of supply:

Base unit with mounted clamping pots.

Note:

Cover panel and connection block (WH-ZP-ACC-AIRBLCK-STD/WH-ZP-ACC-AIRBLCK-PRE) are optionally available.

Part No.	Suitable cover plate	Description	L mm/inch	W mm/inch
WH-ZP138-BASE2-P200	WH-ZP138-ACC-CP2	Standard 2-pot base unit	446/17.6	196/7.7
WH-ZP138-BASE4-P200	WH-ZP138-ACC-CP4	Standard 4-pot base unit	396/15.6	396/15.6
WH-ZP138-BASE6-P200	WH-ZP138-ACC-CP6	Standard 6-pot base unit	396/15.6	596/23.5
WH-ZP138-BASE8-P200	WH-ZP138-ACC-CP8	Standard 8-pot base unit	396/15.6	796/31.3

12-POT CLAMPING TOWER



Version:

Tower with indexed clamping pots Ø 120 mm (4.7 inch).
Clamping pots with individual actuation.
Base plate 500 x 500 x 50 mm (19.7 x 19.7 x 2.0 inch).
Tower 200 x 200 x 630 mm (7.9 x 7.9 x 24.9 inch).
Overall height with base plate 680 mm (26.8 inch).

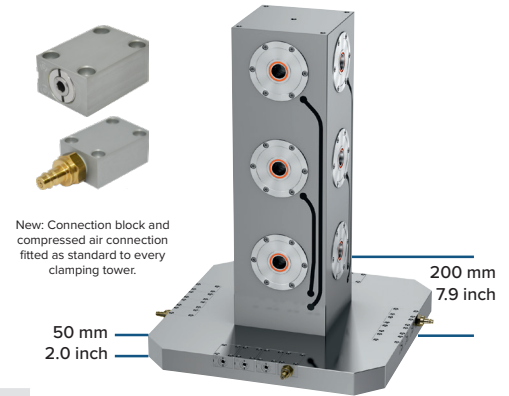
Scope of supply:

Tower with clamping pots and connection blocks mounted on each face, with separate compressed air connection.

Note:

Suitable base unit WH-ZP120-BASE6-P2035 or base unit with pitch of 200 mm.

Part No.	L	W	H	Pitch	Weight
WH-ZP120-TOMB-SQ200	200 mm (7.9 inch)	200 mm (7.9 inch)	630 mm (24.9 inch)	200 mm (7.9 inch)	109 kg (240 lbs)



Version:

Tower with indexed clamping pots Ø 120 mm (4.7 inch).
Clamping pots with individual actuation.
Base plate 500 x 500 x 50 mm (19.7 x 19.7 x 2.0 inch).
Tower 200 x 400 x 500 mm (7.9 x 15.7 x 19.7 inch).
Overall height with base plate 550 mm (21.7 inch).

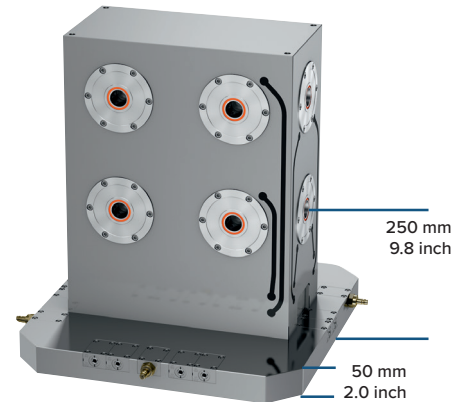
Scope of supply:

Tower with clamping pots and connection blocks mounted on each face, with separate compressed air connection.

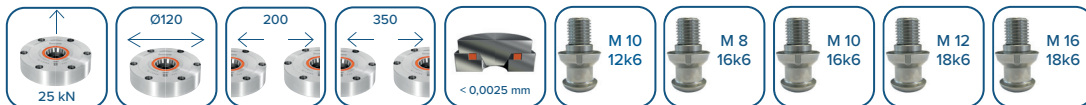
Note:

Associated base unit WH-ZP120-BASE6-P2035 or base unit with pitch of 200 mm.

Part No.	L	W	H	Pitch	Weight
WH-ZP120-TOMB-RE400	200 mm (7.9 inch)	400 mm (15.7 inch)	500 mm (19.7 inch)	200 mm (7.9 inch)	143 kg (315 lbs)



BASE UNIT FOR CLAMPING TOWER



Version:

6 clamping pots Ø 120 mm (4.7 inch). Height 54 mm (2.1 inch).

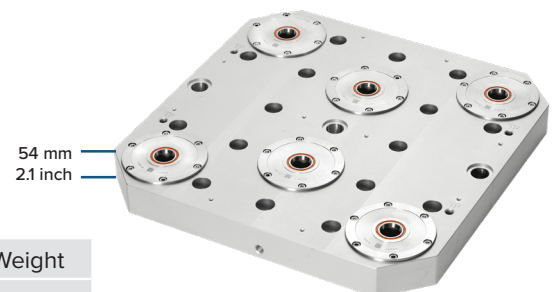
Application:

Special base unit for clamping towers.

Note:

Cover plate available as an option.

Part No.	L	W	H	Pitch	Weight
WH-ZP120-BASE6-P2035	500 mm (19.7 inch)	500 mm (19.7 inch)	54 mm (2.1 inch)	4 x 350 mm 1 x 200 mm	38 kg (83.8 lbs)



1-POT EXTENSION BASES



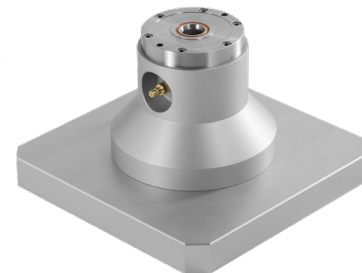
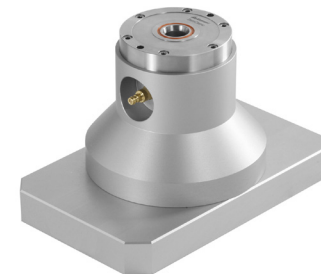
Version:

1-pot extension base with indexed clamping pot Ø 120 mm (4.7 inch).
Pitch of the clamping points/studs on the underside 200 mm (7.9 inch).

Scope of supply:

Extension base with suitable clamping studs and plug-in connector.

Part No.	L mm/inch	W mm/inch	H mm/inch	Number of studs	Weight kg/lbs
WH-ZP120-RISE1-H120	330/13.0	198/7.8	120/4.7	2	13.1/28.9
WH-ZP120-RISE1-H150	330/13.0	198/7.8	150/5.9	2	14.0/30.9
WH-ZP120-RISE1-H200	330/13.0	198/7.8	200/7.9	2	14.8/32.6
WH-ZP120-RISE1-330-H200	330/13.0	330/13.0	200/7.9	4	20.9/46.1



2-POT EXTENSION BASES



Version:

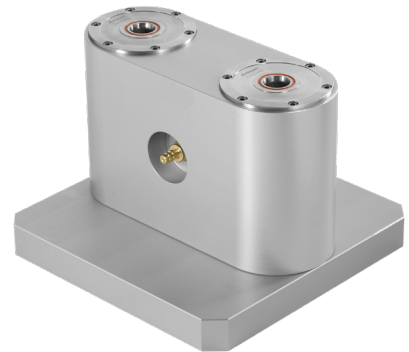
2-pot extension base with clamping pots Ø 120 mm (4.7 inch).
Pitch of the clamping points/studs on the underside 200 mm (7.9 inch).

Scope of supply:

Extension base with suitable clamping studs and plug-in connector.



Part No.	L mm/inch	W mm/inch	H mm/inch	Number of studs	Weight kg/lbs
WH-ZP120-RISE2-H100	330/13.0	130/5.1	100/3.9	2	12,9/28.4
WH-ZP120-RISE2-H120	330/13.0	130/5.1	120/4.7	2	15.2/33.5
WH-ZP120-RISE2-H160	330/13.0	130/5.1	160/6.3	2	19.2/42.3
WH-ZP120-RISE2-H200	330/13.0	130/5.1	200/7.9	2	23.5/51.8
WH-ZP120-RISE2-330-H150	330/13.0	330/13.0	150/5.9	4	33.3/73.0
WH-ZP120-RISE2-330-H160	330/13.0	330/13.0	160/6.3	4	34.3/75.7



CLAMPING POT DOUBLE

Version:

Double clamping pot with orientation.
For direct clamping of components or clamping fixtures.
Ideally for complex workholding.

Scope of supply:

Clamping pot double, plug-in connector G 1/8".

Note:

Optional clamping studs (Ø 120 mm/4.7 inch see page 18, Ø 138 mm/5.4 inch see page 13).



Part No.	Height	Weight
WH-ZP120-CPD100	100 mm/3.9 inch	5.2 kg/11.5 lbs



Part No.	Height	Weight
WH-ZP138-CPD150	150 mm/5.9 inch	7.1 kg/15.7 lbs

Variable position

Individual positioning of clamping pot double also for grid pallet, tombstone etc.



SINGLE POT SOCKET

Application:

Single pot socket for universal use on machine tables with T-slots.

Scope of supply:

Single pot socket with clamping pot, table clamps and plug-in connector.

Note:

Centering mandrel not included in the scope of supply.



Part No.	WH-ZP120-STD-TSLT	WH-ZP120-INDX-TSLT	WH-ZP138-STD-TSLT	WH-ZP138-INDX-TSLT
Size	Ø 120	Ø 120	Ø 138	Ø 138
Indexed	No	Yes	No	Yes

SUITABLE CENTERING MANDREL

Part No.	Description
WH-ZC-ACC-CENT	for pot Ø 120 & Ø 138 mm

STANDARD CONNECTION BLOCK

Version:

Two holes and one plug-in connector G 1/4" to connect release line and discharge line.

Application:

For connecting base units to the compressed air supply.

Part No.	WH-ZP-ACC-AIRBLCK-STD
----------	-----------------------



PREMIUM CONNECTION BLOCK

Version:

G 1/4" plug-in connector to connect the compressed air. Manual valve for releasing, locking and discharging. It is not possible to release and discharge simultaneously.

Application:

For connecting base units to the compressed air supply.

Part No.	WH-ZP-ACC-AIRBLCK-PRE
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ISO40 ADAPTER

Version:

Aluminium with internal taper for SK 40/MAS-BT tool arbor.

Application:

5-axis machining of small workpieces.

Scope of supply:

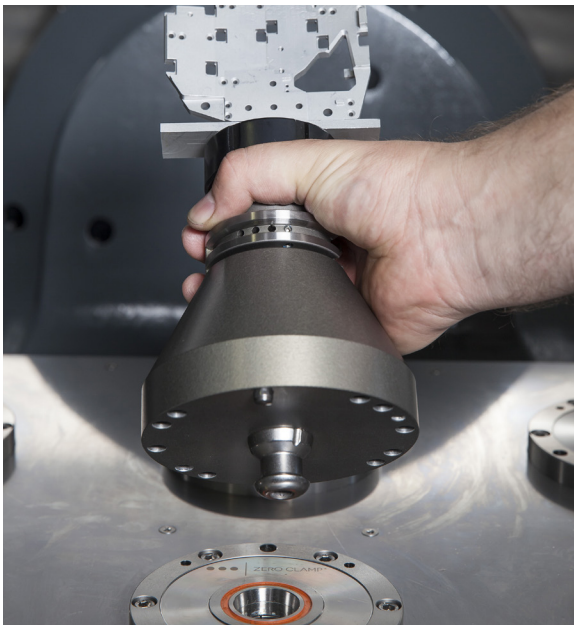
SK 40 adapter with grub screw.



Part No.	Suitable for	Weight kg/lbs
WH-ZP-40ADPT-ZP90	Clamping pot Ø 90 mm	0.89/1.96
WH-ZP-40ADPT-ZP120	Clamping pot Ø 120 mm	1.51/3.33
WH-ZP-40ADPT-ZP138	Clamping pot Ø 138 mm	1.94/4.28

SUITABLE CLAMPING STUDS

Part No.	Description
WH-ZP-40ADPT-ZP90-STUD	For clamping pot Ø 90 mm
WH-ZP-40ADPT-ZP120-STUD	For clamping pot Ø 120 mm
WH-ZP-40ADPT-ZP138-STUD	For clamping pot Ø 138 mm



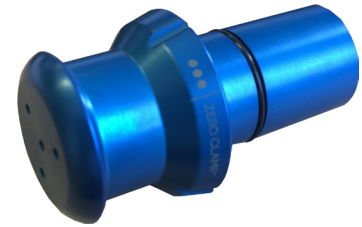
CLEANING STUD

Application:

With activated flushing spindle for cleaning machine table and workpiece. Usable for every conventional tool holder Ø 25 mm (1.0 inch) (automated change from tool magazine).

Note:

Ideal for automated machine tool. High operational reliability.



Part No.

WH-ZP-ACC-CSTUD

PULL-OUT FORCE TESTER

Application:

For testing the attachment force of the clamping pots.

Scope of supply:

Pull-out force tester and 4 clamping studs, suitable for all sizes of pots.

Note:

To measure the pull-out force, a conventional torque wrench is required.



Part No.

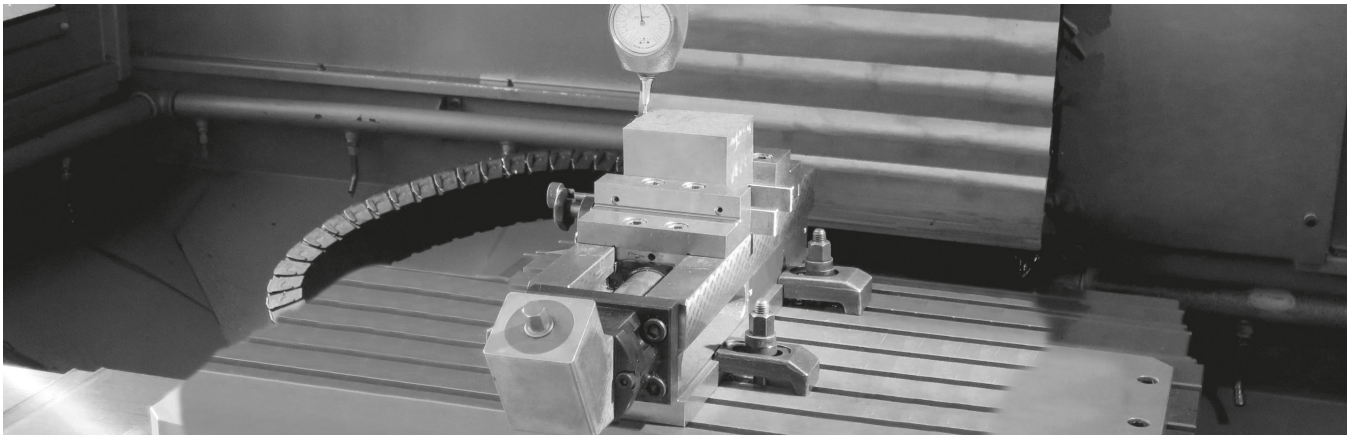
WH-ZP-ACC-PFT

Force measurement

By a torque wrench and pull-out force tester the clamping force of the zero point clamping system can be checked.



CONVENTIONAL CLAMPING



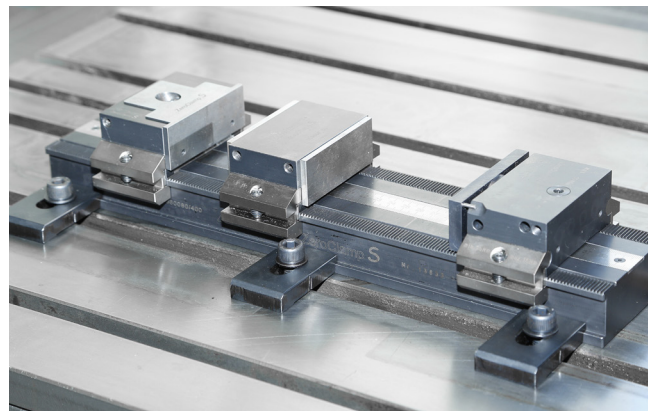
Fixed clamping width, dependent on vice size. Clamping in the case of clamping mechanisms which are partly open is only possible for one component.

FIELD OF APPLICATION FOR THE MODULAR CLAMPING RAIL SYSTEMS SL080 AND SL120



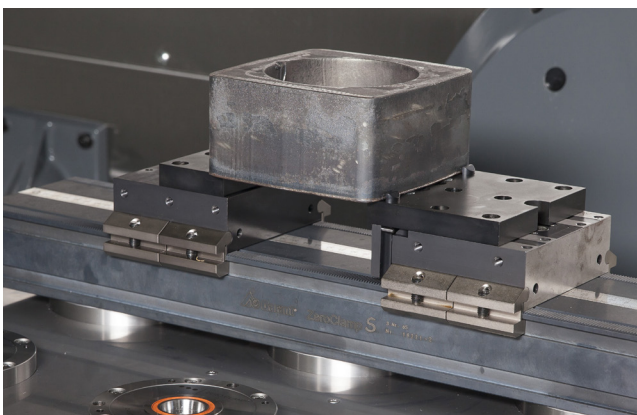
Clamping flame-cut blanks

Positive clamping using the pivoted Clamping Rail System SL080 260 mm (10.2 inch).



Flexible basis

Can be used on the T-slot grid pallet, as well as on the zero point clamping system.



Blank part clamping

Parallel clamping jaws with gripper inserts permit positive clamping of blank parts on a SL120 modular clamping rail system.



Clamping multiple parts

Multiple parts, even different parts, can be clamped at the same time on a single clamping rail.

CLAMPING RAIL SL080



Version:

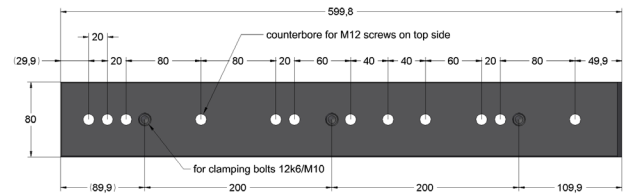
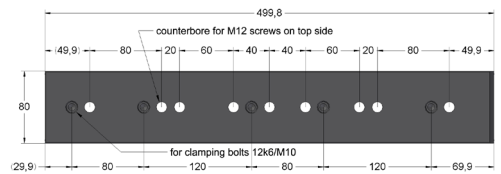
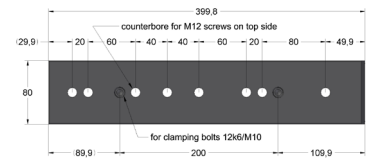
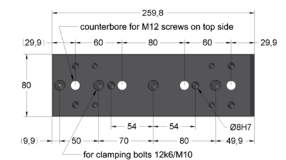
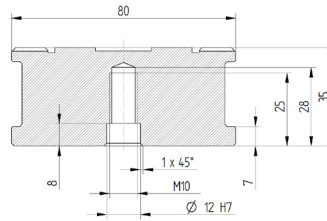
Compact modular design, clamping forces up to 20 kN (4500 lbf). Conventional clamping or grip clamping can still be performed. Pairing accuracy 0.03 mm (0.001 inch). Clamping rails can be coupled together infinitely. Precise serrations, pitch 2 mm (0.08 inch). Functional faces hardened and ground. Checking the clamping force using a torque wrench. A graduated scale rule at the top permits quick positioning.

Application:

Clamping of single and multiple components. A clamping rail with a length of 260 mm can be fastened to a clamping pot in a pivotable manner (see page 25). This clamping rail is equipped at the factory with supporting plates for this purpose.

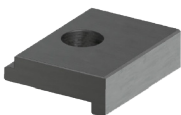
Note:

The modular clamping rail can also be fastened without a zero point clamping system using M12 screws or on T-slot table with the side clamp set.



Part No.	WH-MRV80-260	WH-MRV80-400	WH-MRV80-500	WH-MRV80-600
Weight in kg	5.4	7.7	10.0	11.6
Weight in lbs	11.9	17.0	22.0	25.6
Length in mm	260	400	500	600
Length in inch	10.2	15.7	19.7	23.6

Table clamps (set)

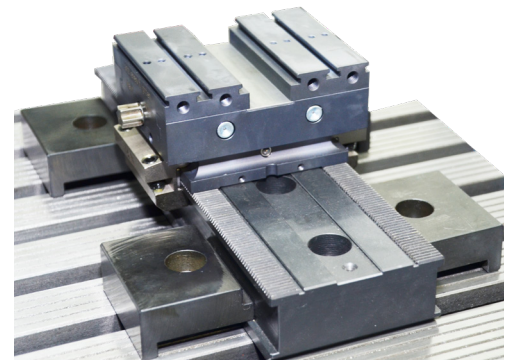


Application:

For securing the clamping rail to the T-slot table.

Scope of supply:

6 table clamps.

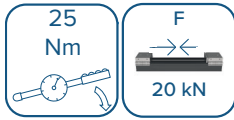


SUITABLE ACCESSORIES

Part No.	Description
WH-MRV-ACC-CLAMPS	Table clamps set (6 pcs.)

Drawings all in metric si units

PULL-DOWN JAW 48

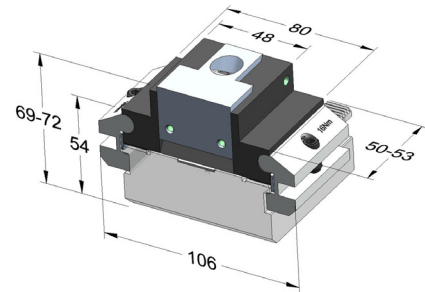
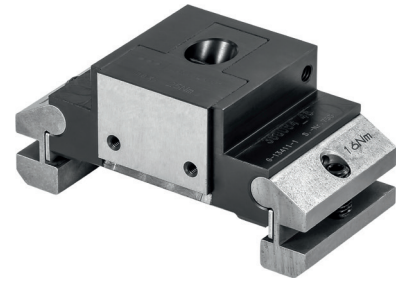


Version:

Pull-down width 40 mm (1.57 inch).
Jaw rear face as for a fixed jaw with 48 mm (1.89 inch) width.

Application:

For clamping blank parts (ideal with gripper jaw)
and finished parts (ideal with carbide jaw).



Part No.	Description	Weight
WH-MRV80-JAW-BPD-48	Pull-down jaw 48	1.1 kg (2.4 lbs)

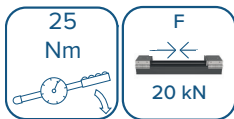
SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS-48NF	Gripper facing jaw 48 N F
WH-MRV80-JAW-F-48NF	Carbide facing jaw 48 N F



WH-MRV80-JAW-R-PADS-48NF

PULL-DOWN JAW 80

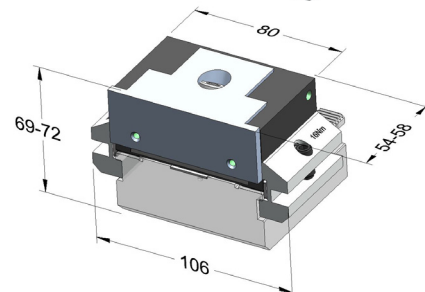


Version:

Pull-down width 80 mm (3.15 inch). The jaw rear face is arranged as a fixed jaw with 80 mm (3.15 inch) width.

Application:

For clamping blank parts (ideal with gripper jaw)
and finished parts (ideal with carbide jaw).



Part No.	Description	Weight
WH-MRV80-JAW-BPD	Pull-down facing jaw 80	1.5 kg (3.3 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS	Gripper facing jaw 80
WH-MRV80-JAW-F	Carbide facing jaw 80
WH-MRV80-JAW-R	Serrated facing jaw 80*



WH-MRV80-JAW-R-PADS



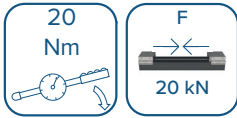
WH-MRV80-JAW-F



WH-MRV80-JAW-R*

* For use in applications with the jaw rear face arranged as a fixed jaw

PARALLEL CLAMPING JAW 48

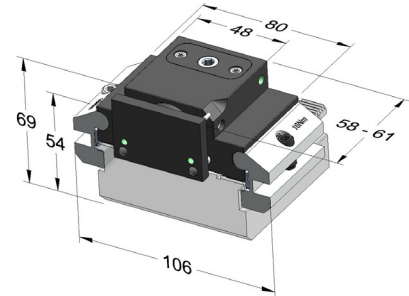
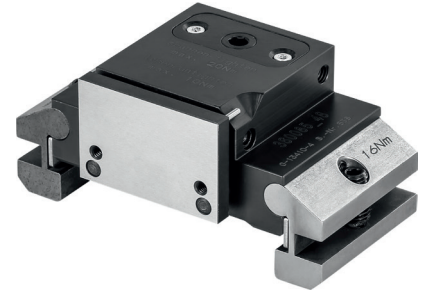


Version:

Parallel clamping width 48 mm (1.89 inch).
The jaw rear face is arranged as a fixed jaw with 48 mm (1.89 inch) width.
Tapped holes for attaching facing jaws.

Application:

For clamping blank parts (ideal with gripper jaw)
and finished parts (ideal with carbide jaw).
Positive clamping with an aluminium/steel facing jaw (profiled jaws).



Part No.	Description	Weight
WH-MRV80-JAW-BPAR-48	Parallel clamping jaw 48	1.2 kg (2.6 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS-48P	Gripper facing jaw 48 P
WH-MRV80-JAW-F-48P	Carbide facing jaw 48

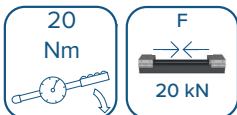


WH-MRV80-JAW-R-PADS-48P



WH-ZV80-JAW-CC48PF

PARALLEL CLAMPING JAW 80

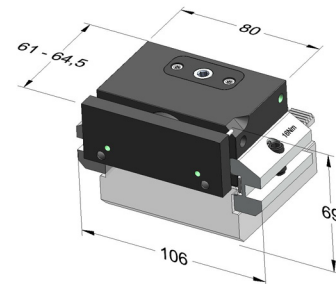
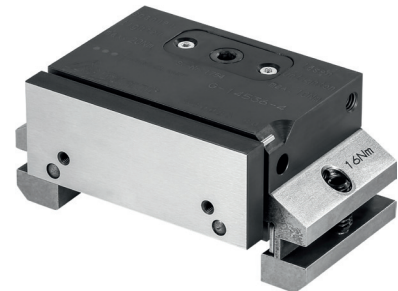


Version:

Parallel clamping jaw 80 mm (3.15 inch).
The jaw rear face is arranged as a fixed jaw with 80 mm (3.15 inch) width.
Tapped holes for attaching facing jaws.

Application:

For clamping blank parts (ideal with gripper and serrated jaw)
and finished parts (ideal with carbide jaw).
Positive clamping with an aluminium/steel facing jaw (profiled jaws).



Part No.	Description	Weight
WH-MRV80-JAW-BPAR	Parallel clamping jaw 80	1.4 kg (3.1 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS	Gripper facing jaw 80
WH-MRV80-JAW-F	Carbide facing jaw 80
WH-MRV80-JAW-R	Serrated facing jaw 80



WH-MRV80-JAW-R-PADS



WH-MRV80-JAW-F



WH-MRV80-JAW-R

Drawings all in metric si units

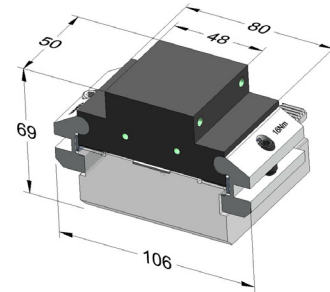
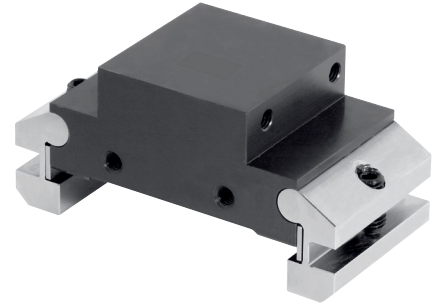
FIXED JAW 48

Version:

Fixed jaw width 48 mm (1.89 inch).

Application:

For clamping blank parts (ideal with gripper jaw) and finished parts (ideal with carbide jaw).
Positive clamping with an aluminium/steel facing jaw (profield jaw).



Part No.	Description	Weight
WH-MRV80-JAW-BFIX-48	Fixed jaw 48	1.1 kg (2.4 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS-48NF	Gripper facing jaw 48 N F

Drawings all in metric si units

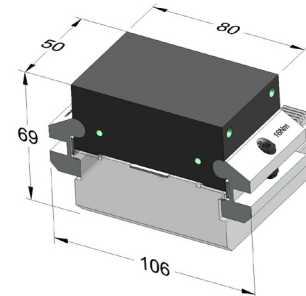
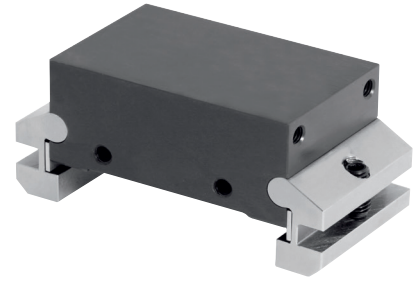
FIXED JAW 80

Version:

Fixed jaw width 80 mm (3.15 inch).

Application:

For clamping blank parts (ideal with gripper or serrated jaw)
and finished parts (ideal with carbide jaw).
Positive clamping with an aluminium/steel facing jaw (profifield jaw).



Part No.	Description	Weight
WH-MRV80-JAW-BFIX	Fixed jaw 80	1.3 kg (2.9 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV80-JAW-R-PADS	Gripper facing jaw 80
WH-MRV80-JAW-F	Carbide facing jaw 80
WH-MRV80-JAW-R	Serrated facing jaw 80



WH-MRV80-JAW-R-PADS



WH-MRV80-JAW-F



WH-MRV80-JAW-R

SERRATED FACING JAW

Version:

Serrated facing jaw.

The tooth contour and spacing is compatible with the grip top jaws of the centering clamping fixtures.

Application:

For clamping blank parts.

Can be used for fixed and parallel clamping jaws of the corresponding size.



Part No.	Description
WH-MRV80-JAW-R	Serrated facing jaw 80
WH-MRV120-JAW-R	Serrated facing jaw 120

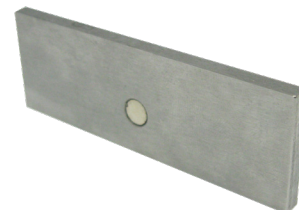
MAGNETIC STRIP 74

Version:

Magnetic (underside and reverse side).

Application:

Support for workpieces.



Part No.	Width/height	Thickness
WH-MRV80-ACC-MP10	74/10 mm (2.9/0.4 inch)	4 mm (0.2 inch)
WH-MRV80-ACC-MP15	74/15 mm (2.9/0.6 inch)	4 mm (0.2 inch)
WH-MRV80-ACC-MP20	74/20 mm (2.9/0.8 inch)	4 mm (0.2 inch)
WH-MRV80-ACC-MP25	74/25 mm (2.9/1.0 inch)	4 mm (0.2 inch)
WH-MRV80-ACC-MP30	74/30 mm (2.9/1.2 inch)	4 mm (0.2 inch)

ADJUSTABLE WORKPIECE STOP

Version:

Adjustable clamping of the dowel pin.
No projecting edges during machining.

Application:

High repetition accuracy when positioning.
Suitable also for the SL120 modular clamping rail system.



Part No.	Description
WH-ZV-ACC-WES	Adjustable workpiece stop

MAGNETIC WORKPIECE STOP

Version:

Workpiece stop with magnet.

Application:

High repetition accuracy when positioning on all magnetic surfaces.
Suitable also for the SL120 modular clamping rail system.



Part No.	Description
WH-MRV80-ACC-MWES	Magnetic workpiece stop

CLAMPING RAIL 120



Version:

Compact modular design, clamping forces up to 40 kN (9000 lbf). Conventional clamping or grip clamping can still be performed.

Pairing accuracy 0.03 mm (0.001 inch).

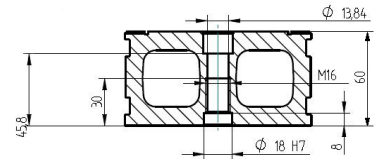
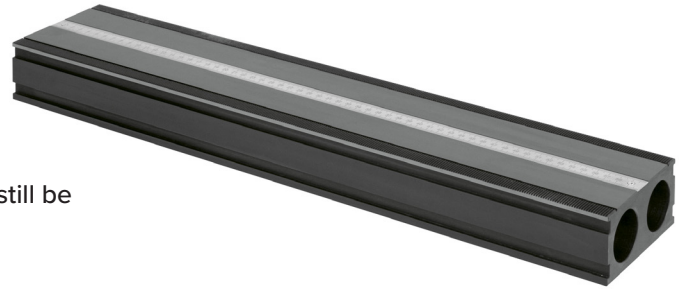
Clamping rails can be coupled together infinitely.

Precise serrations, pitch 2 mm (0.08 inch).

Functional faces hardened and ground.

Checking the clamping force using a torque wrench.

A graduated scale rule at the top permits quick positioning.



Application:

Clamping of single and multiple components.

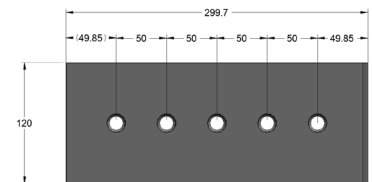
Bracing panels must be used when clamping a workpiece over two or more rails on the zero point clamping system.

Clamping rails can also be clamped in a pivotable manner (see also SL080 260 mm page 25), in which case supporting plates are required.

Note:

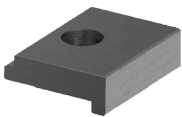
The modular clamping rail can also be fastened without a zero point clamping system using M12 screws or on T-slot table (see page 25) with the side clamp set.

Part No.	WH-MRV120-300	WH-MRV120-500	WH-MRV120-600	WH-MRV120-800
Weight in kg	9.3	9.7	18.5	25.5
Weight in lbs	20.5	21.3	40.8	56.2
Length in mm	300	500	600	800
Length in inch	11.8	19.7	23.6	31.5

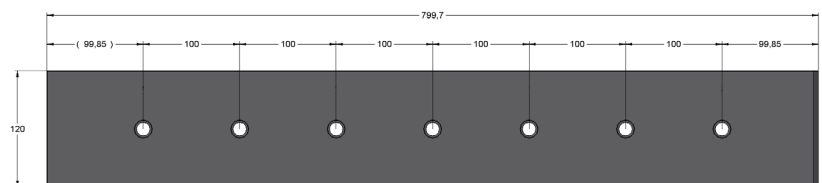
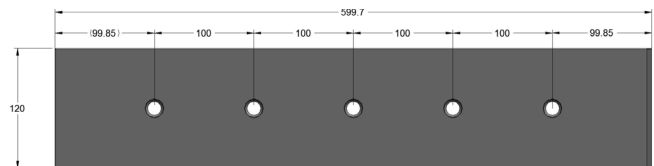


SUITABLE ACCESSORIES

Part No.	Description
WH-MRV-ACC-CLMP	Table clamps set (6 pcs.)



WH-MRV-ACC-CLAMPS



FIXED JAW 120

Version:

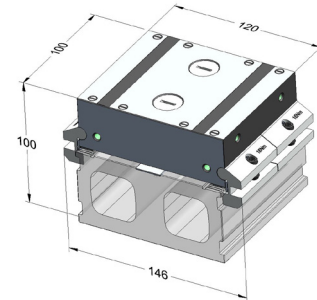
Fixed jaw width 120 mm.

Tapped holes for mounting the facing jaw.

Application:

For clamping blank parts (ideal with a grip or serrated facing jaw) and finished parts (ideal with an carbide facing jaw).

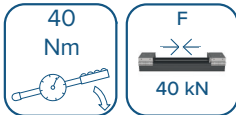
Positive clamping with an aluminium/steel facing jaw (profiled jaw) and with the base jaw with pivot function. The clamping area can be extended using the serrated top jaws.



Part No.	Description	Weight
WH-MRV120-JAW-BFIX	Fixed jaw 120	4.1 kg (9.0 lbs)

For suitable accessories see Parallel clamping jaw 120

PARALLEL CLAMPING JAW 120



Version:

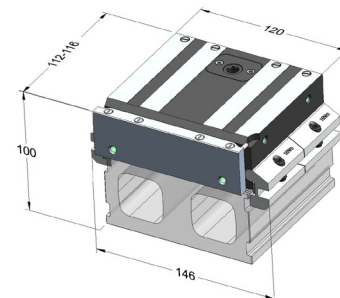
Parallel jaw width 120 mm.

The jaw rear face is arranged as a fixed jaw.

Tapped holes for mounting the facing jaw.

Application:

For clamping blank parts (ideal with a grip or serrated facing jaw) and finished parts (ideal with an carbide facing jaw). Positive clamping with an aluminium/steel facing jaw (profiled jaws). The clamping area can be extended using the serrated top jaws.



Part No.	Description	Weight
WH-MRV120-JAW-BPAR	Parallel clamping jaw 120	4.3 kg (9.6 lbs)

SUITABLE ACCESSORIES
FIXED AND PARALLEL CLAMPING JAW WH-MRV120-JAW-BFIX +
WH-MRV120-JAW-PAR

Part No.	Description
WH-MRV120-JAW-GF	Gripper facing jaw 120
WH-MRV120-JAW-F	Carbide facing jaw 120
WH-MRV120-JAW-BFIX	Fixed base jaw
WH-MRV120-JAW-PIV	Base jaw with pivot function*
WH-MRV120-JAW-R	Serrated facing jaw 120

* For use only on a fixed jaw.



More information page 41

Drawings all in metric si units

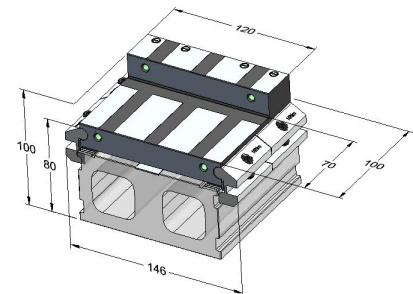
STEPPED JAW 120

Version:

Stepped jaw width 120 mm (4.7 inch).
The jaw rear face is arranged as a fixed jaw.

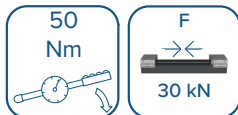
Application:

Fixed jaw increasing the clamping width.



Part No.	Description	Weight
WH-MRV120-JAW-STP	Stepped jaw 120	4.1 kg (9.0 lbs)

PULL-DOWN JAW 120

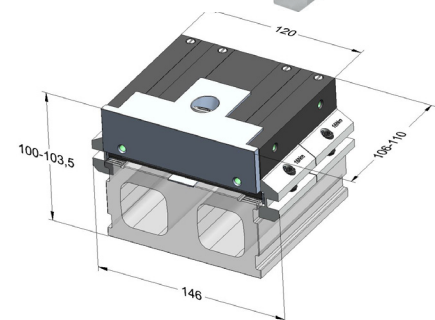


Version:

Pull-down jaw width 120 mm.
The jaw rear face is arranged as a fixed jaw.
Tapped holes for mounting the facing jaw.

Application:

For clamping blank parts (ideal with a grip facing jaw) and finished parts (ideal with an carbide facing jaw). Positive clamping with the base jaw (see WH-MRV120-JAW-PAR).



Part No.	Description	Weight
WH-MRV120-JAW-BPD	Pull-down jaw 120	4.3 kg (9.5 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-MRV120-JAW-F	Carbide facing jaw 120
WH-MRV120-JAW-BFIX	Fixed base jaw*
WH-MRV120-JAW-R	Serrated facing jaw120*



WH-MRV120-JAW-F



WH-MRV120-JAW-BFIX*



WH-MRV120-JAW-R
More information page 45

* For use in applications with the jaw rear face arranged as a fixed jaw.

BASE JAW PIVOT FUNCTION

Version:

Base jaw width 120 mm.

For mounting gripper and clamping inserts.

Application:

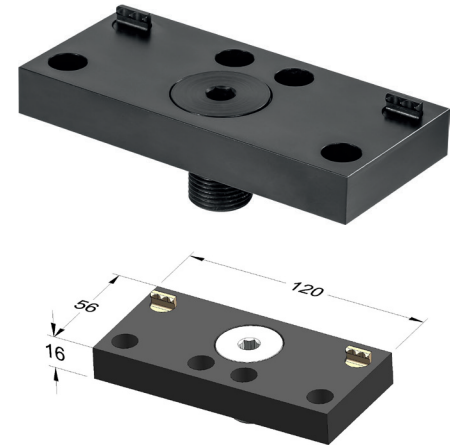
Suitable for fixed jaw WH-MRV120-JAW-BFIX.

Positive clamping.

For machining blank parts (ideal with gripper inserts) and finished parts (ideal with carbide inserts).

Scope of supply:

Jaw with central securing screw and 2 x gripper insert WH-MRV120-JAW-BFIX-I3.8.



For suitable accessories see Fixed base jaw

Part No.	Description	Weight
WH-MRV120-JAW-PIV	Base jaw pivot function	0.8 kg (1.8 lbs)

FIXED BASE JAW

Version:

Base jaw width 120 mm.

For mounting gripper and clamping inserts.

Application:

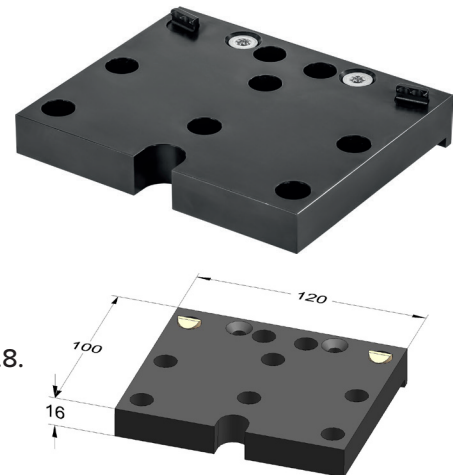
Suitable for parallel clamping jaw WH-MRV120-JAW-PAR.

Positive clamping.

For machining blank parts (ideal with gripper inserts) and finished parts (ideal with carbide inserts).

Scope of supply:

Jaw with securing screws and 2 x gripper insert WH-MRV120-JAW-BFIX-I3.8.



Part No.	Description	Weight
WH-MRV120-JAW-BFIX	Fixed base jaw	1.4 kg (3.0 lbs)

SUITABLE ACCESSORIES FOR FIXED BASE JAW AND WITH PIVOT FUNCTION

Part No.	Description
WH-MRV120-JAW-PIV-3.8	Gripper insert (height 3,8 mm/0.2 inch)
WH-MRV120-JAW-PIV-5.5	Clamping insert, smooth, carbide-coated (height 5.5 mm/0.2 inch)



WH-MRV120-JAW-BFIX-I3.8



WH-MRV120-JAW-BFIX-I5.5

Blank part clamping

Positive clamping of blank parts with gripper inserts.



Drawings all in metric si units

MAGNETIC STRIP 114

Version:

Magnetic strip width 120 mm. Positioning via magnets.

Application:

Serves as positional support for workpieces at different clamping depths.



Part No.	WH-MRV120-ACC-MP10	WH-MRV120-ACC-MP20	WH-MRV120-ACC-MP30	WH-MRV120-ACC-MP38
Width /Height	114/10 mm (4.5/0.4 inch)	114/20 mm (4.5/0.8 inch)	114/30 mm (4.5/1.2 inch)	114/38 mm (4.5 /1.5 inch)
Thickness	6 mm (0.2 inch)	6 mm (0.2 inch)	6 mm (0.2 inch)	6 mm (0.2 inch)

CENTERING CLAMPING FIXTURES 80 AND 120 - THE ALL-ROUNDERS

Powerful flexibility

The centering clamping fixture is the perfect complement to your modular clamping rail system. Components can be centrally clamped using grip jaws, carbide-coated jaws or profiled jaws. Round parts can be clamped using prism jaws.

Variable range of application

Direct mounting on the modular clamping rail system, can be offset by 90°, or on the zero point clamping system. Ideal for 5-axis machining on one extension base.

Wide variety of jaws

For blank and finished parts, as well as contour-faithful clamping.

Powerful

Clamping forces up to 17 kN (3800 lbf) - size 80 or 25 kN (5500 lbf) - size 120.

High process reliability

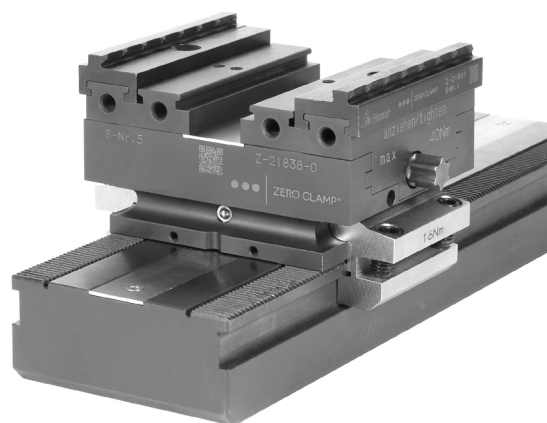
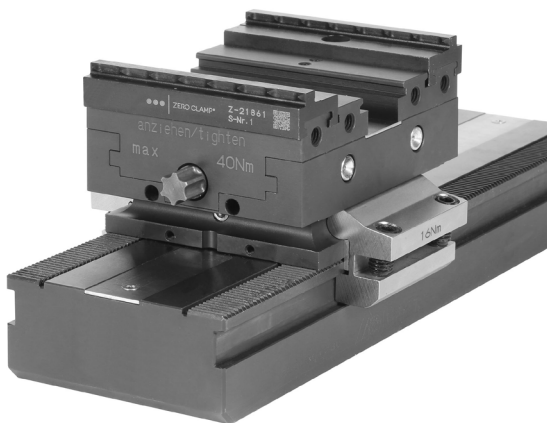
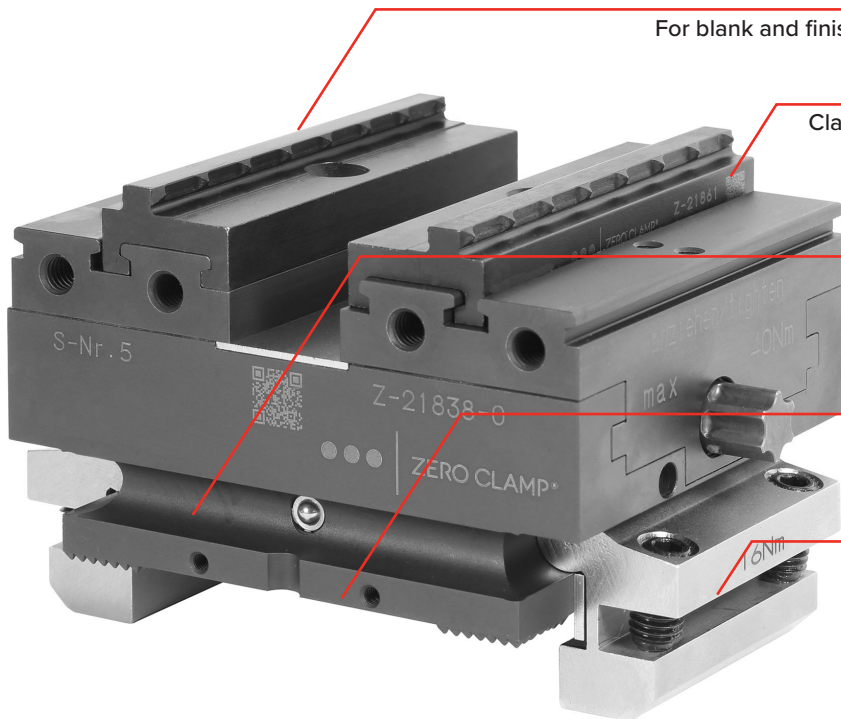
Full enclosure protects against dirt.

Precision

Variable centering ± 0.02 mm (0.0007 inch).

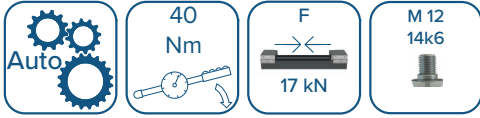
Flexible

Option of mounting on the modular clamping rail system or on an extension base.



The centering clamping fixture can be rotated by 90° simply, quickly.

CENTERING CLAMPING FIXTURE 80



Version:

Mechanical centering clamping fixture with closed clamping mechanism.

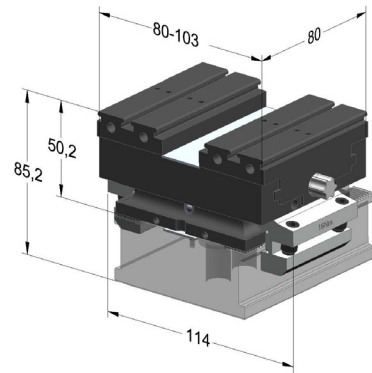
Application:

For centrally clamping blank parts (ideal with grip top jaw set) and finished parts (ideal with an carbide top jaw set).

Suitable for clamping rail SL080.

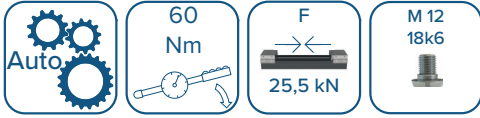
Note:

The top jaws (see page 29) are dependent on size and are the same for all types. During continuous operation, the product requires weekly lubrication with the high pressure lubrication HPL-15* using the lubricating nipples on the side.



Part No.	Description	Weight
WH-ZV-M80R	ZeroVise® M80R	2.7 kg (6.9 lbs)

CENTERING CLAMPING FIXTURE 120



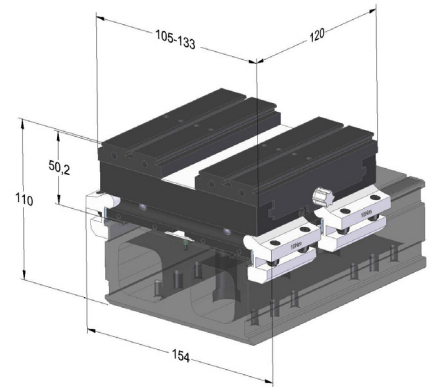
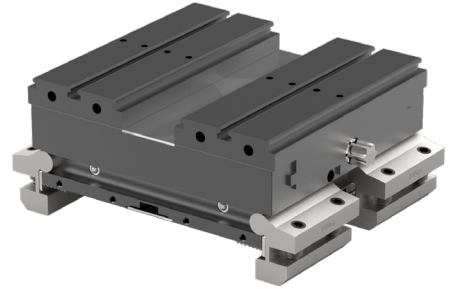
Version:

Mechanical centering clamping fixture with closed clamping mechanism.

Application:

For centrally clamping blank parts (ideal with grip top jaw set) and finished parts (ideal with an carbide top jaw set).

Suitable for clamping rail SL120.



Part No.	Description	Weight
WH-ZV-M120R	ZeroVise® M120R	6.8 kg (15.1 lbs)

CENTERING CLAMPING FIXTURES 80 AND 120 – THE SPECIALISTS

Specialized and precise

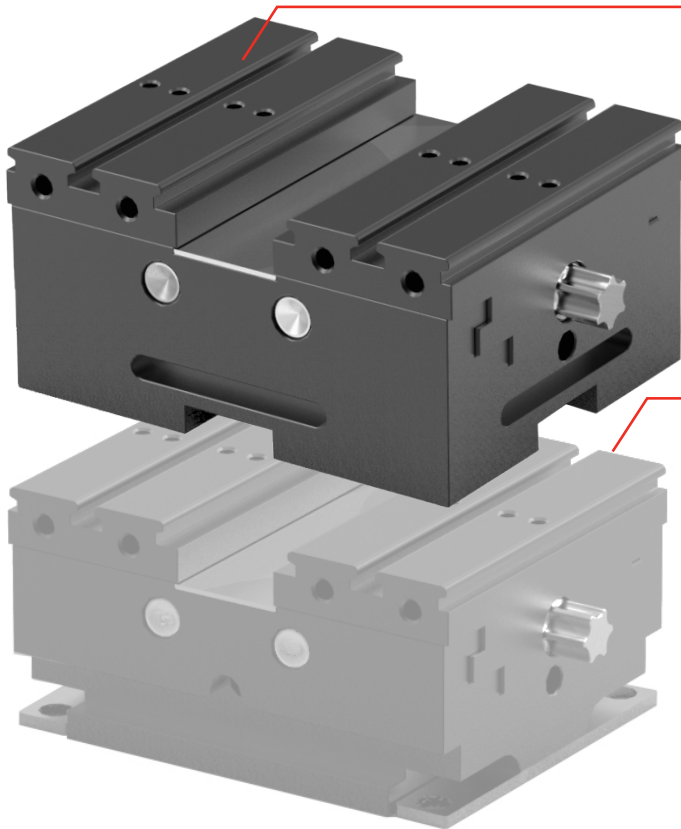
Components can be centrally clamped using grip jaws, carbide-coated jaws, profiled jaws or prism jaws. Reliable application, thanks to the fully enclosed clamping mechanism.

Choose the ideal accompaniment for your production

You can choose between two versions of the centering clamping fixture which are ideally tailored to your requirements.

The T-slot centering clamping fixture is suitable for the construction of your own clamping fixtures on pallets or on the machine table.

The automated centering clamping fixture, on the other hand, is suitable for fast operation on the zero point clamping system, e.g. for automation.



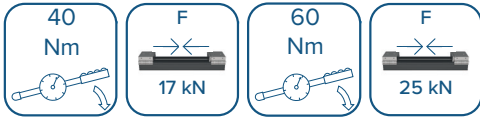
T-slots centering clamping fixtures

Easy and flexible use on T-slot tables, grid plates, or extension bases using universal alignment slots.

Automation centering clamping fixture

The centering clamping fixture is used directly on the zero point clamping system.

T-SLOT CENTERING CLAMPING FIXTURE



Version:

Mechanical centering clamping fixture with closed clamping mechanism.

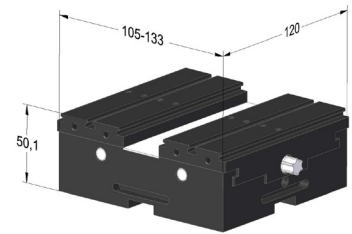
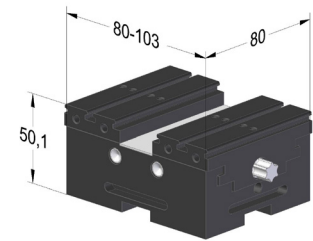
Application:

Centered clamping of blank parts (ideal with the grip top jaw set) and finished parts (ideal with the carbide top jaw set).

Centering clamping fixture can be fastened individually using the side clamps. For the construction of clamping fixtures and for conventional fastening on a T-slot machine table or a grid pallet.

Note:

The top jaws (see page 44) are dependent on size and are the same for all types. During continuous operation, the product requires weekly lubrication with the high pressure lubrication HPL-15* using the lubricating nipples on the side.

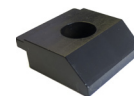


Part No.	Description	Clamping force	Weight
WH-ZV-M80S	ZeroVise® M80S	17 kN (3800 lbf)	3.4 kg (7.5 lbs)
WH-ZV-M120S	ZeroVise® M120S	25 kN (5500 lbf)	6.0 kg (12 lbs)

SUITABLE ACCESSORIES

Part No.	Description
WH-ZV-ACC-TCLMP	Table clamps set (2 pcs.)
WH-ZV-45PYRM-400	3-side extension base
WH-ZV-ACC-LUBE	High pressure lubrication HPL-15*

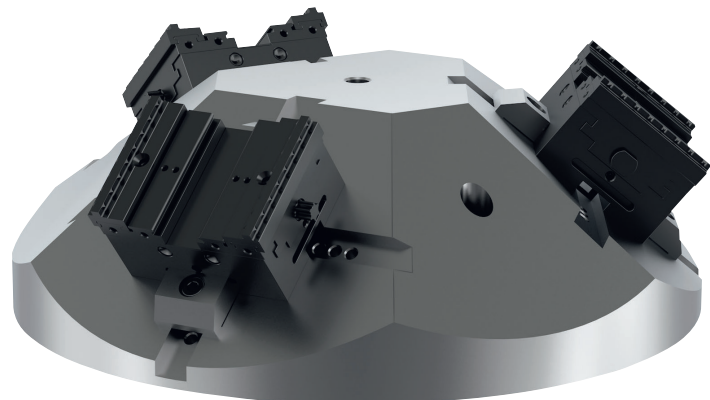
* Hand push gun filled with HPL-15, replacement cartridges article no. WH-ZV-ACC-LUBEC



WH-ZV-ACC-TCLMP

5-axis Pyramid Base

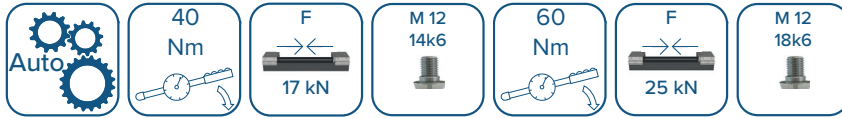
Centering clamping fixture fastened on a 3-pot extension base with side clamps.



Part No. WH-ZV-45PYRM-400 (without centering clamping fixtures)

Drawings all in metric si units

AUTOMATED CENTERING CLAMPING FIXTURE



Version:

Mechanical centering clamping fixture with closed clamping mechanism.

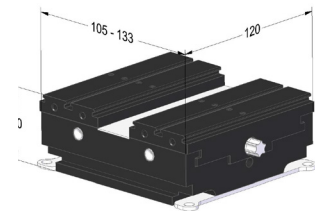
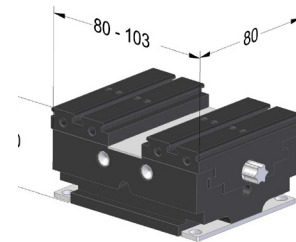
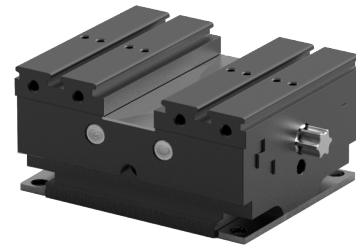
Application:

Centered clamping of blank parts (ideal with the grip top jaw set) and finished parts (ideal with the carbide top jaw set).

The centering clamping fixture is ideal for automation, as it can be fastened quickly and securely on the underside using a clamping stud.

Note:

The top jaws are dependent on size and are the same for all types. Clamping stud is available as an option. During continuous operation, the product requires weekly lubrication with the high pressure lubrication using the lubricating nipples on the side.



Part No.	Description	Clamping force	Weight
WH-ZV-M80A	ZeroVise® M80A	17 kN (3800 lbf)	2.5 kg (7.66 lbs)
WH-ZV-M120A	ZeroVise® M120A	25 kN (5500 lbf)	5.1 kg (12.5 lbs)

SUITABLE ACCESSORIES

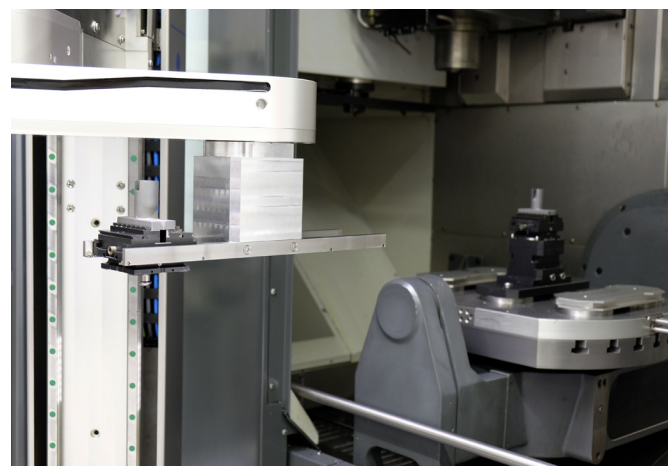
Part No.	Description
WH-ZV-M120A-ACC-STUD-ZP90	Clamping stud for pot Ø 90 mm
WH-ZV-M120A-ACC-STUD-ZP138	Clamping stud for pot Ø 138 mm



WH-ZV-M120A-ACC-STUD-ZP90/
WH-ZV-M120A-ACC-STUD-ZP138

Round part clamping

Automated centering clamping fixture with components ideal for automation.



Drawings all in metric si units

TOP JAWS FOR MANUAL CENTERING CLAMPING FIXTURES

Version:

Top jaws in various sizes and designs.

Application:

Gripper jaws ideal for clamping blank parts. Jaws with carbide coating are suitable for clamping finished parts.

Soft blank jaws are for bespoke production of profiled jaws.

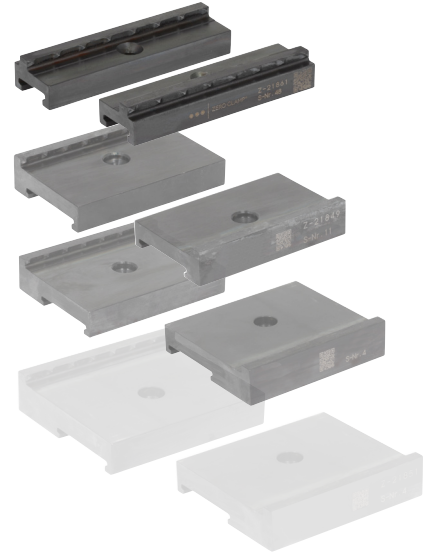
Prism jaws for horizontal and vertical clamping of round workpieces.

Scope of supply:

Pair of jaws with securing screws.

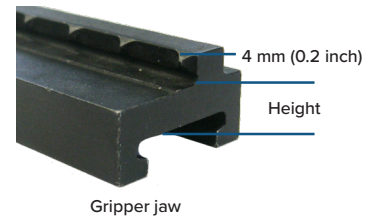
Note:

Top jaws can be used for all three centering clamping fixture variants in the same size.



TOP JAWS FOR CENTERING CLAMPING FIXTURE 80

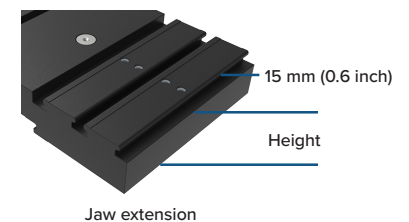
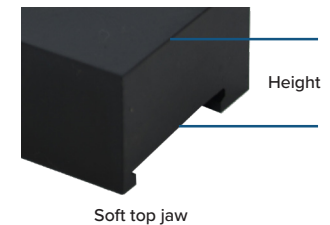
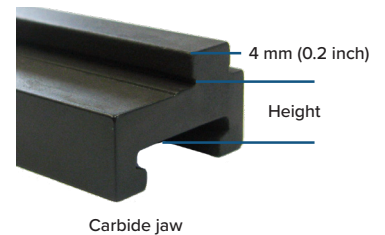
Part No.	Clamping capacity	Description	Height
WH-ZV80-JAWS-R87	6 - 87 mm (0.2 - 3.4 inch)	Pair of gripper top jaws 87*	5 mm (0.2 inch)
WH-ZV80-JAWS-GRIP107	87 - 107 mm (3.4 - 4.2 inch)	Pair of gripper top jaws 107	8 mm (0.3 inch)
WH-ZV80-JAWS-F87	7 - 88 mm (0.3 - 3.5 inch)	Pair of gripper top jaws 88*	5 mm (0.2 inch)
WH-ZV80-JAWS-GRIT108	88 - 108 mm (3.4 - 4.3 inch)	Pair of gripper top jaws 108	8 mm (0.3 inch)
WH-ZV80-JAWS-SFTS	100 - 123 mm (3.9 - 4.8 inch)	Pair of soft top jaws 123	20 mm (0.8 inch)



Top jaws can be used on centering clamping fixture 80, T-slot centering clamping fixture 80, and automated centering clamping fixture 80.

TOP JAWS FOR CENTERING CLAMPING FIXTURE 120

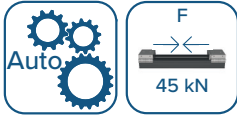
Part No.	Clamping capacity	Description	Height
WH-ZV120-JAWS-R107	6 - 107 mm (0.2 - 4.2 inch)	Pair of gripper top jaws 107*	7 mm (0.3 inch)
WH-ZV120-JAWS-GRIP132	107 - 132 mm (4.1 - 5.2 inch)	Pair of gripper top jaws 132	10 mm (0.4 inch)
WH-ZV120-JAWS-F107	7 - 107 mm (0.3 - 4.2 inch)	Pair of carbide top jaws 107*	7 mm (0.3 inch)
WH-ZV120-JAWS-GRIT132	106 - 132 mm (4.2 - 5.2 inch)	Pair of carbide top jaws 132	10 mm (0.4 inch)
WH-ZV120-JAWS-SFTS	125 - 153 mm (5.0 - 6.0 inch)	Pair of soft top jaws 153	25 mm (1.0 inch)
WH-ZV120-JAWS-EXT	107 - 207 mm (4.21 - 8.15 inch)	Pair of ZeroVise Jaw-Extensions ZV120	20 mm (.79 inch)
WH-ZV80-JAWS-EXT	87 - 167 mm (3.43 - 6.57 inch)	Pair of ZeroVise Jaw-Extensions ZV80/P100	15 mm (.59 inch)



Top jaws can be used on centering clamping fixture 120, T-slot centering clamping fixture 120, and automated centering clamping.

* The top jaw can be positioned and turned flexibly on the centering clamping fixture.

PNEUMATIC CENTERING CLAMPING FIXTURE 160

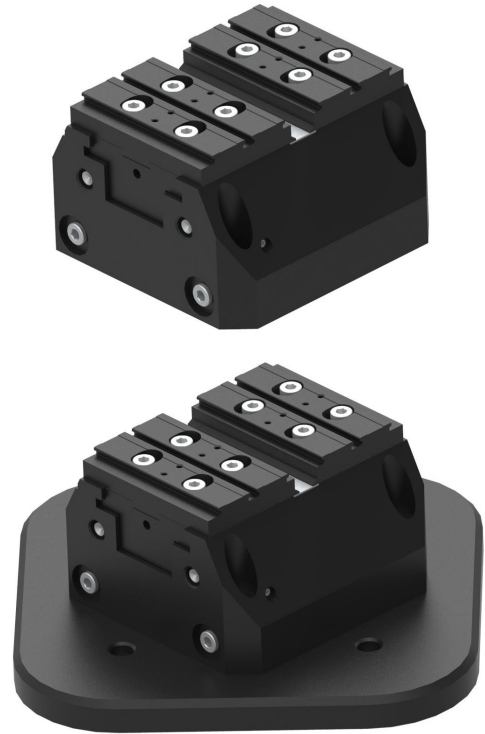


Version:

Pneumatic centering clamping fixture.
 Clamping forces of up to 45 kN* which are infinitely adjustable via the compressed air (max. 9 bar).
 Optionally available with base plate for mounting on a base unit.
 High clamping stroke of 8.5 mm.
 Adjustable stroke + 5 mm per side.
 Even if compressed air is lost, the centric clamp has a light (approx. 60 kg) preload to ensure safe positioning of the workpiece, e.g. on shuttle tables.

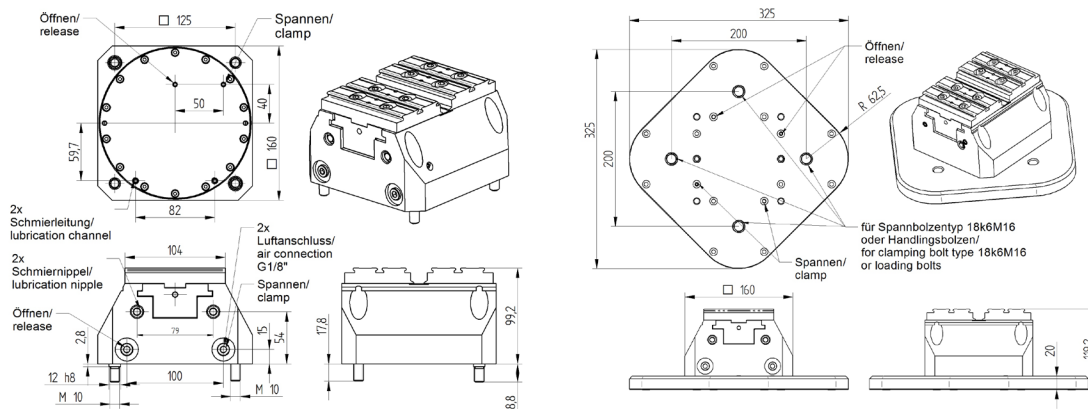
Application:

For centered clamping of components.
 Suitable for automated operation via 4-channel clamping pots, but also via lateral connections.



Centering Clamping Fixture 160 with base plate

Part No.	Description	Weight
WH-ZV-P160	Pneumatic self-centering Vise P100	12.2 kg (27 lbs)
WH-ZV-P100-ZBP	Pneumatic self-centering Vise P100 with base plate	22.2 kg (49 lbs)



Dimension are of P160. For P100 visit our website

* The clamping force is the arithmetic sum of the individual forces occurring at the clamping jaws.

TOP JAWS FOR PNEUM. CENTERING CLAMPING FIXTURE 160 AND PNEUMATIC DRIVE

Version:

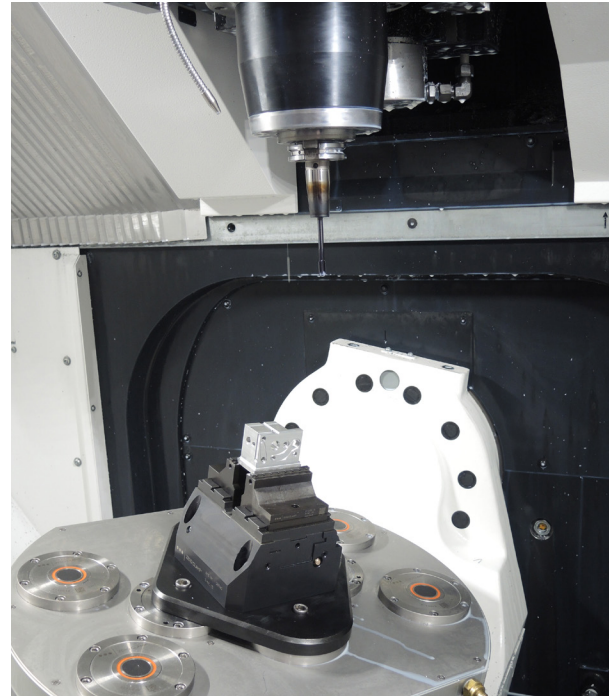
A pair of grip jaws can be used as reversible jaws, hardened. Jaws with a height of 40 mm (1.6 inch) are 80 mm (3.1 inch) wide and cover two clamping areas. Jaws with a height of 15 mm (0.6 inch) are 120 mm (4.7 inch) wide and cover four clamping areas.

Application:

For clamping blank parts (ideal with grip jaws). Soft jaws (base jaw WH-ZV160-JAWS-BASE needed for top jaws) are used to produce bespoke profiled jaws.

Scope of supply:

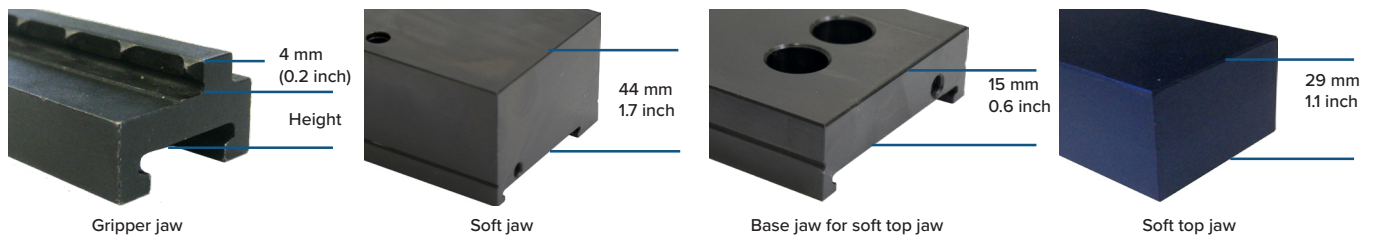
Pair of jaws with securing screws.



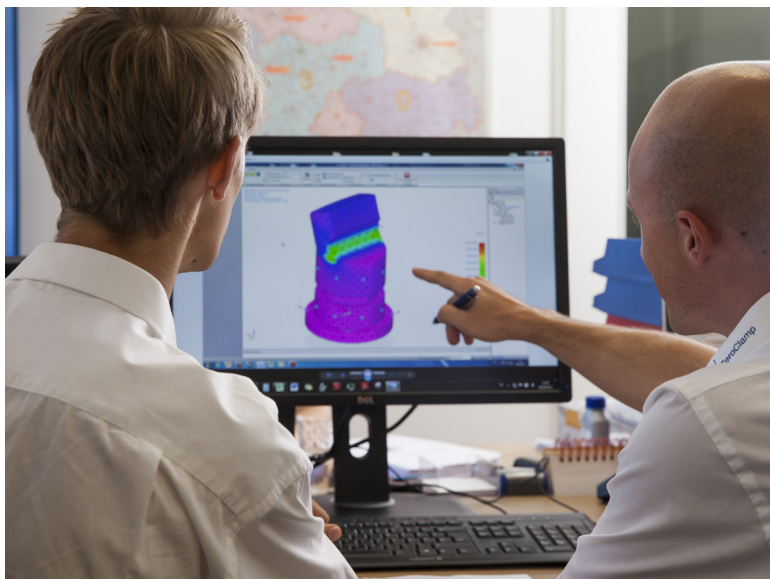
TOP JAWS FOR PNEUMATIC DRIVE

Part No.	Description	Clamping capacity
WH-ZV160-JAWS-R130-H40-SET6	Set of gripper top jaws H 40*	10 - 130 mm (0.4 - 4.7 inch)
WH-ZV160-JAWS-R130-H15-SET3	Set of gripper top jaws H 15*	10 - 130 mm (0.4 - 5.1 inch)
WH-ZV160-JAWS-M168-S	Pair of soft jaws, steel 168	168 mm (6.6 inch) - (External dimension)
WH-ZV160-JAWS-BASE	Pair of base jaws for soft top jaws	
WH-MRV120-JAW-M-A	Pair of soft top jaws, alu 1/2	148 mm (5.8 inch) - (External dimension)
WH-MRV120-JAW-M-S	Pair of soft top jaws, steel 1/2	148 mm (5.8 inch) - (External dimension)
WH-ZV160-JAWS-EXT		

* Set consisting of all jaws with the height 40 mm or 15 mm.



ADVISORY SERVICE



**INDIVIDUAL SOLUTION
CONCEPTS**

- Assembly kit system with standard components.
- Tailor-made clamping solutions, even for automation.
- Extends beyond standard products.

AFTER SALES



**YOU WILL NOT BE ON YOUR
OWN AFTER IMPLEMENTATION
– WE WILL BE THERE FOR YOU**

- Customer-oriented sales force.
- Maintenance and service contracts.
- Fast responses to questions or problems.

A photograph of the Lyndex-Nikken building facade, featuring the company name and logo in large letters. The image is overlaid with a blue tint. The logo consists of the word "LYNDEX" above "NIKKEN" and a stylized icon of a drill bit to the right.

LYNDEX
NIKKEN

ABOUT US

At Lyndex-Nikken, we have made it our mission to provide the two most important points to keep you ahead of the competition: advanced technology and the innovation to keep it moving forward. In addition to manufacturing the best machine tool accessories available on the market, our team of highly experienced technicians and product specialists offers unmatched customer service and engineering support to our customers worldwide.



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