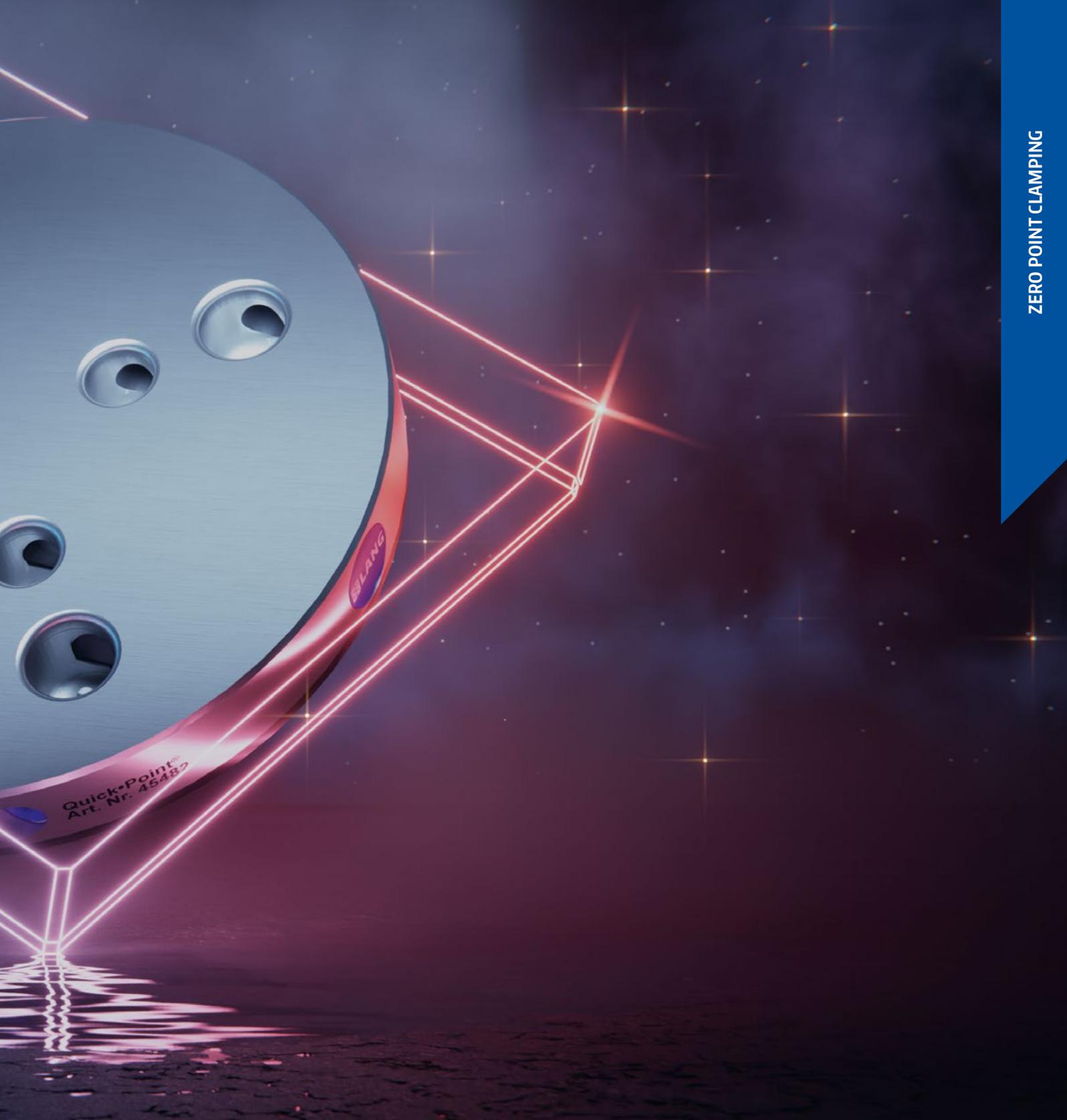




ZERO POINT CLAMPING



- 22 Quick-Point® 52
- 30 Quick-Point® 96
- 42 Quick-Point® 52/96 combi
- 46 Quick-Point® modular plates
- 48 Quick-Point® adapter plates
- 50 Quick-Point® risers
- 54 Quick-Point® tombstones
- 58 Quick-Tower tombstone
- 68 Quick-Point® accessories
- 76 Alignment and mounting options
- 78 Quick-Point® service
- 80 Quick-Point® Rail quick clamping system

Zero point clamping

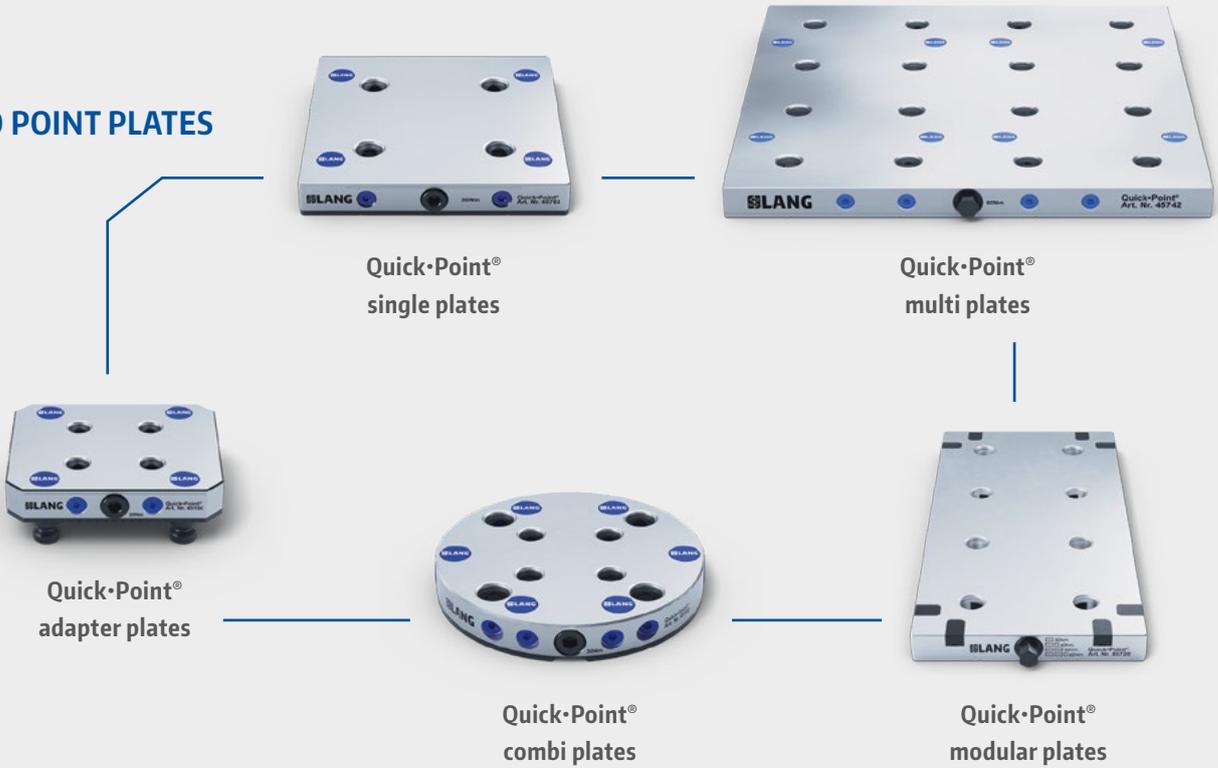
Zero point clamping systems from LANG Technik are characterized by:

MODULARITY

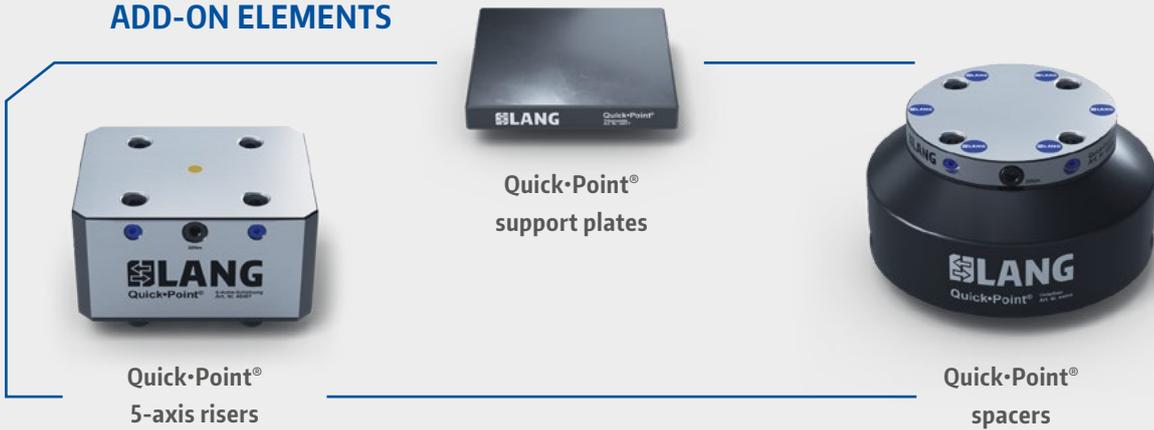
APPLICATION VARIETY

FASTEST CHANGEOVER TIMES

ZERO POINT PLATES



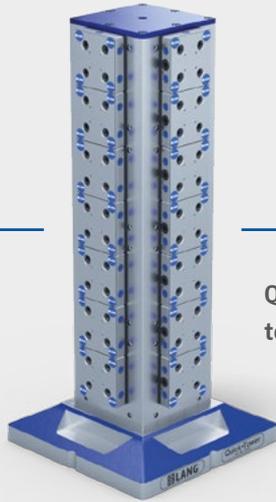
ADD-ON ELEMENTS



MULTI CLAMPING SYSTEMS AND TOMBSTONES



Quick-Point®
3- / 4-face
tombstone



Quick-Tower
tombstone



Quick-Point®
twin base



Quick-Point®
Tri-Top



Quick-Point®
3-face pyramid

QUICK-POINT® RAIL QUICK CLAMPING SYSTEM



Quick-Point® Rail
5-axis combi riser



Quick-Point® Rail
centering vise

AUTOMATION ZERO POINT CLAMPING SYSTEMS



Haubex



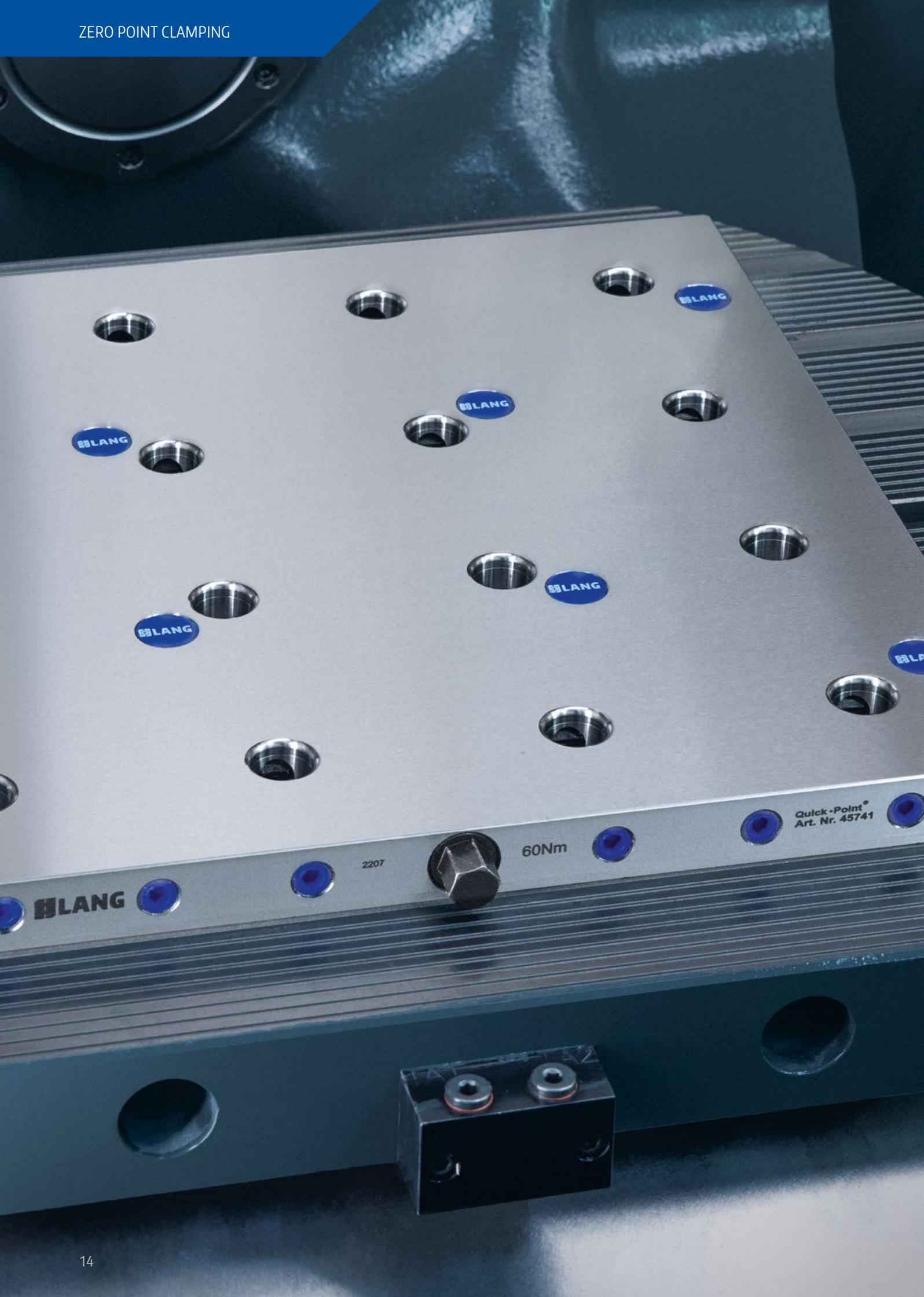
RoboTrex Compact



RoboTrex 52



RoboTrex 96





PATENTED

Quick-Point®

zero point clamping system

The Quick-Point® zero point clamping system is characterized by a particularly wide range of variants and offers a suitable solution for every machine tool. Whether round, rectangular or square in shape, for single or multiple clamping, it can be used universally in vertical and horizontal machining centers, on 3- / 5-axis tables or rotary tables. The simple mechanical operation, solid construction, high precision, and enormous set-up time savings make the Quick-Point® zero point clamping system one of the best on the market.

Primary area of application:

- **Vertical and horizontal milling machines**
- **3-axis / 5-axis tables, automation pallets, rotary tables and clamping bridges**
- **Single and multiple clamping**

Benefits:

- **High application variety and adaptability**
- **Minimum time required for changeovers**
- **Simple, robust and maintenance-free mechanics paired with highest precision**

Quick·Point®

Clamping options:

- direct clamping of workpieces
- LANG Technik vises of all types
- customer-specific devices / fixtures
- vises from other manufacturers

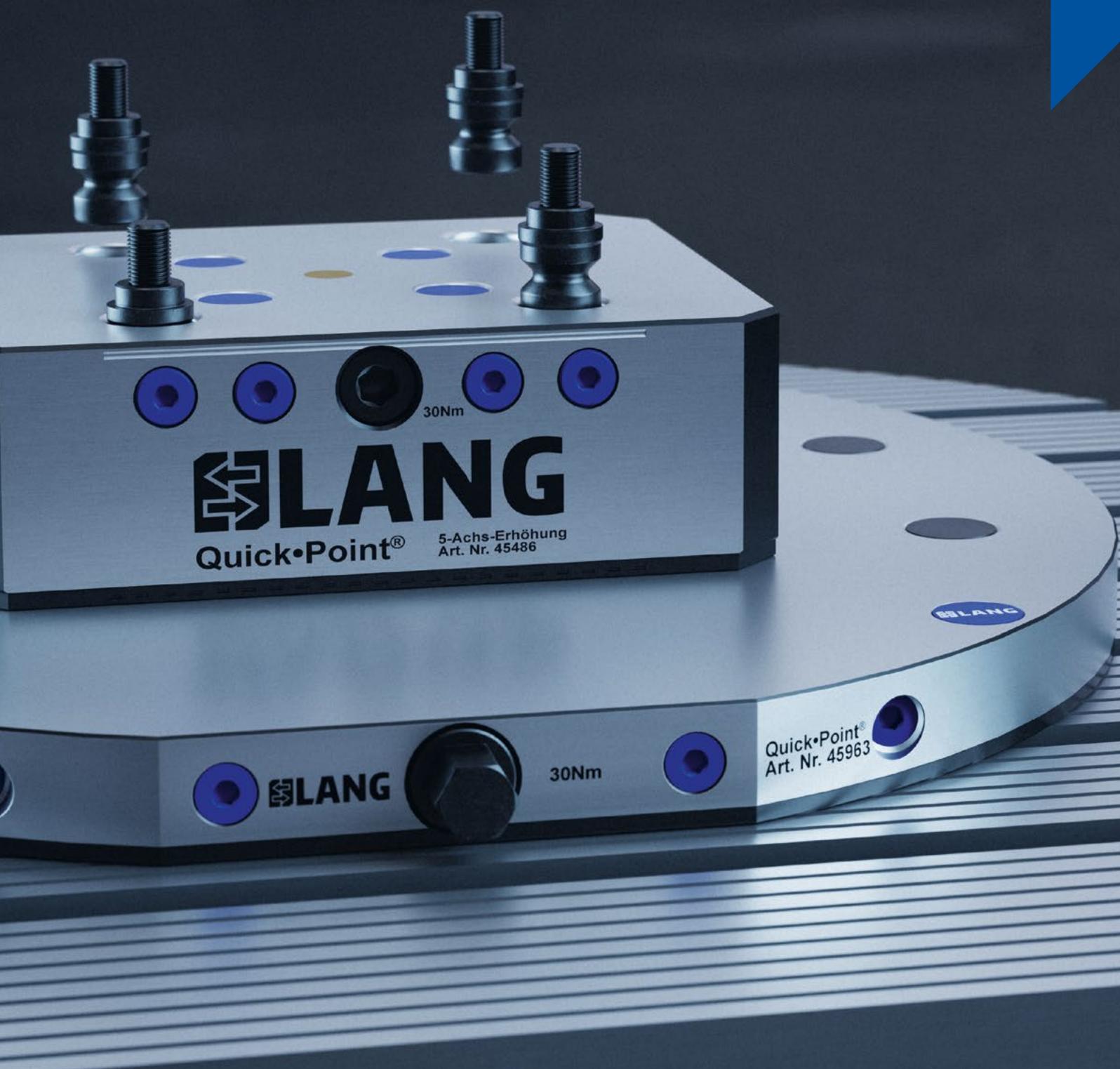
Zero point plate:

- base body made of case-hardened, ground steel
- 27 mm high (one of the lowest systems worldwide)
- zero point grid 52 mm, 96 mm, 52 / 96 mm (combi)
- repeatability < 0.005 mm
- mechanical clamping via hexagon clamping screw
- or alternatively via quick-release fastener
- available with and without predefined mounting holes
- integrated alignment slots and fitting holes

Mounting:

- universally applicable on machine tables, automation pallets, clamping bridges / tombstones or rotary tables
- suitable and prepared with mounting holes for all standard slot tables
- can be customized for any other table / pallet surface





LANG

Quick•Point® 5-Achs-Erhöhung
Art. Nr. 45486

30Nm

LANG

30Nm

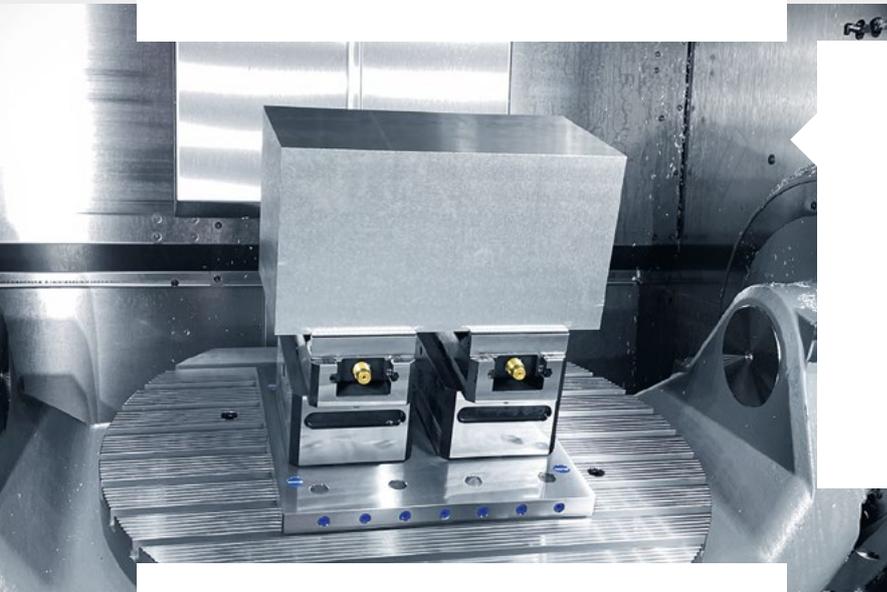
Quick•Point®
Art. Nr. 45963

LANG

Functional principle of Quick-Point® zero point plates

By design Quick-Point® is a purely mechanical zero point system. A patented rod system inside the plate guarantees a repeatability of less than 0.005 mm. Quick-Point® plates are actuated by a screw or the Quick-Lock fastening device to ensure simple and easy operation.

With an actuation torque of 30 Nm (60 Nm for 4-fold grid plates) holding forces of up to 6,000 kg are realized. Due to a very small number of wear-free parts the system is reliable and virtually maintenance free.



Multi plates

Multi plates offer variable application and positioning options in the zero point clamping system. In particular, larger machine tables can be covered efficiently and over a large area using multi plates. This guarantees maximum flexibility and allows several clamping devices, fixtures or workpieces to be used on a machine table at the same time.

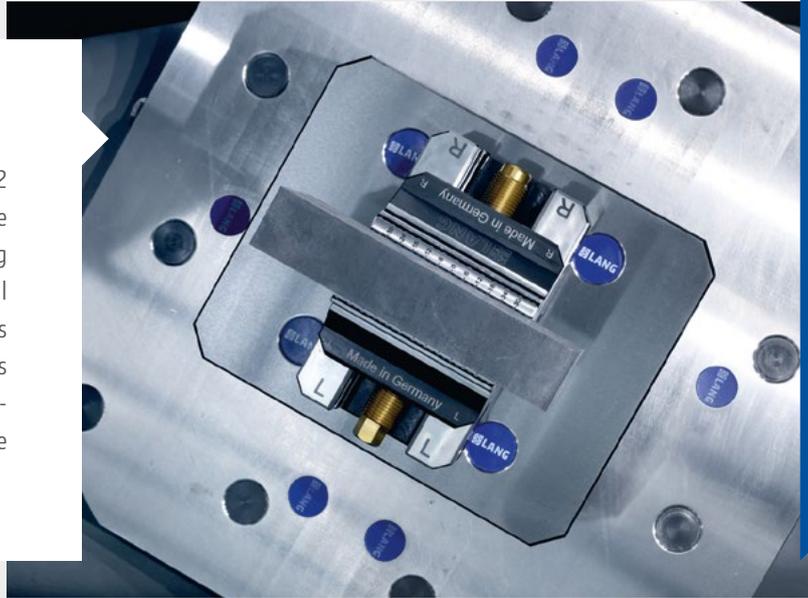
Adapter plates

The use of adapter plates makes it possible to change the system size of Quick-Point®. It takes no time at all to convert from the 96 mm to the 52 mm zero point grid. The modular design of the system allows both large and small LANG vises and clamping devices to be used on the same machine table without having to fundamentally change the set-up. The use of an adapter plate raises the position of the clamping device, which above all improves accessibility when milling small workpieces.



Combi plates

Combi plates combine the two grid dimensions 52 and 96 mm in one zero point plate and guarantee the ultimate freedom in the choice of clamping devices. The combined zero point grid allows all LANG vises to be used in a single plate, which saves time, especially during changeovers. Combi plates are available in square, rectangular and round versions, as well as 5-axis combi risers and twin base versions.

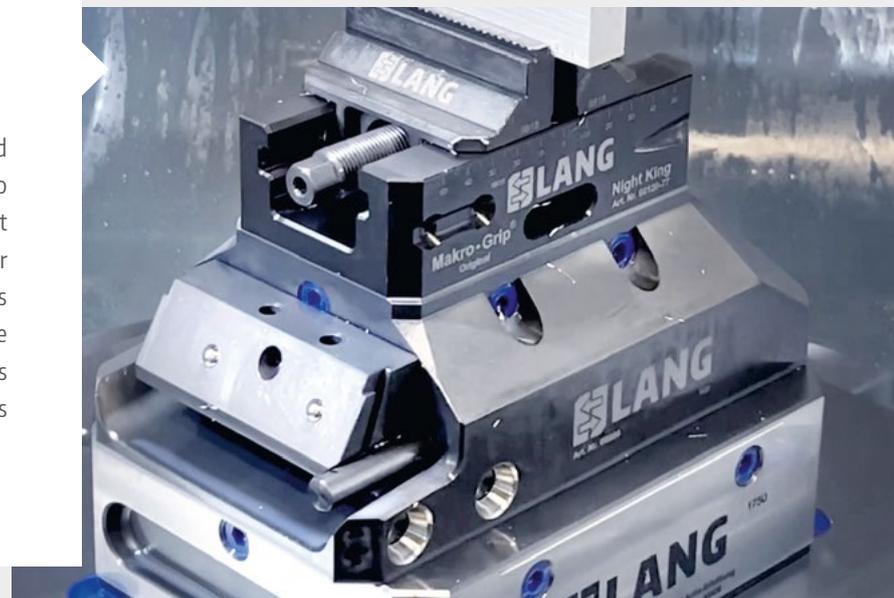


Modular plates

Modular plates allow several connected plates to be clamped simultaneously with just one clamping screw. Up to two 2-fold modular plates and a single modular plate can be connected to each other. Modular plates provide an excellent foundation for setting up workholding systems that are clamped across several zero point units.

Automation zero point clamping system

The Quick·Point® zero point clamping system is used not only in conventional manual machining, but also in automated unmanned production. The zero point clamping system can be opened and closed either by the machine tool or by the robot gripper. This is done either by the robot mechanically operating the lever or via the gripper's pneumatic interface. This means that a media interface inside the machine is not necessary.





Poseidon Propulsion B.V.

Direct clamping of workpieces and fixtures

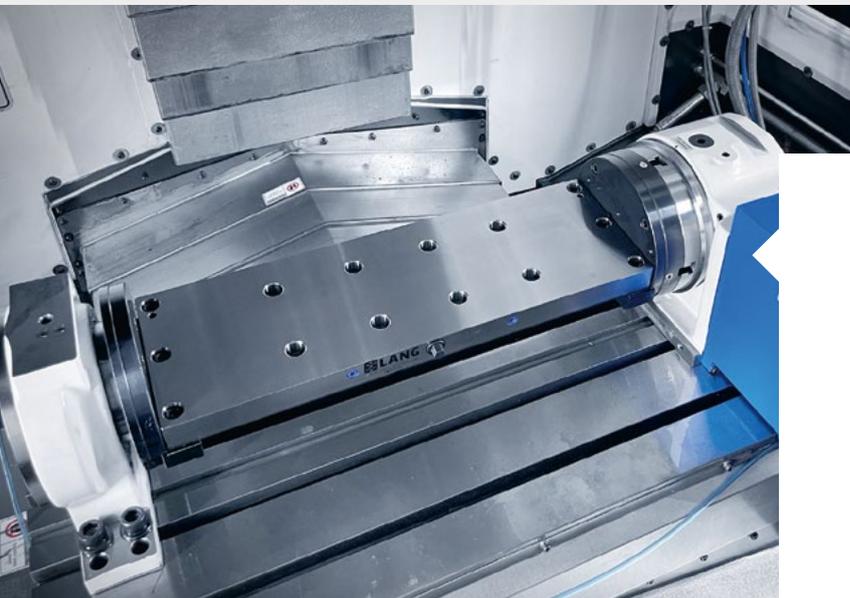
Quick-Point® clamping studs connect the zero point system and LANG workholding devices. They can be also mounted directly to a workpiece in order to clamp it directly without a workholding device. Even the mounting to customers' own fixtures or conventional vises is possible in order to benefit from all the advantages of the Quick-Point® zero point clamping system. The connection between clamping studs and zero point plate is extremely robust, very precise and can undoubtedly resist even the strongest machining forces.



High degree of customization possibilities

All of our Quick-Point® plates with prefabricated mounting bores are also available without such, in order to be individually adapted to any kind of machine table. If the zero point plate protrudes the machine table, cutting off the plate's corners provides a nice and clean customization.



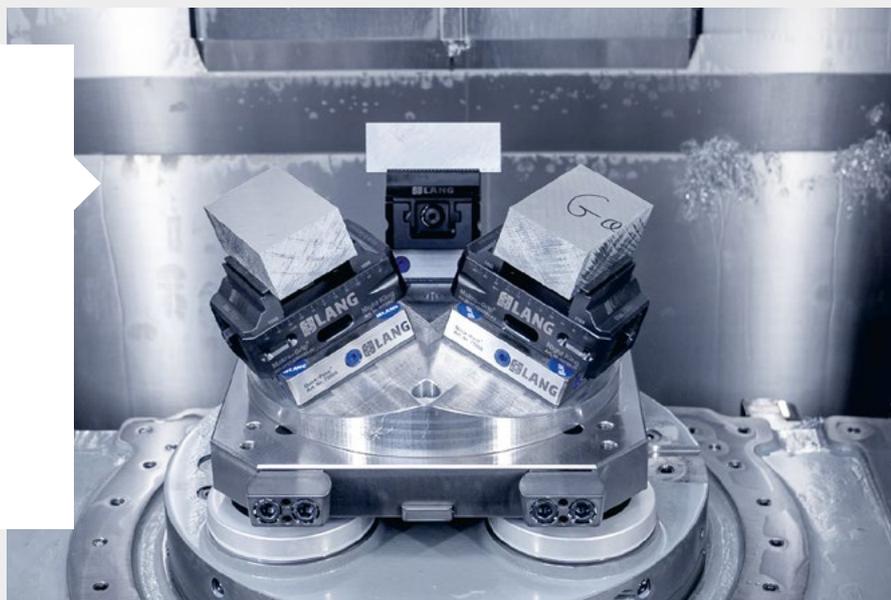


A great fit for rotary tables

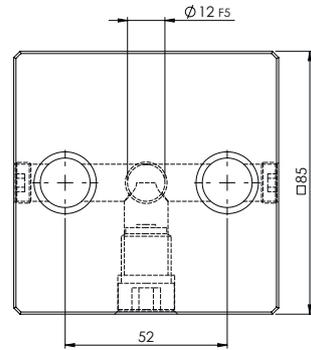
The low overall height, the wide range of customization options and the mechanical functional principle make the Quick-Point® zero point clamping system a great choice for rotary tables, e.g. from Kitagawa, Lehmann, Nikken or Haas, just to name a few. Rotary tables and trunnions can be retrofitted easily with Quick-Point® plates which provide added value in terms of flexibility and set-up time savings.

Increased productivity with multiple clamping systems and tombstones

The Quick-Point® zero point clamping system also offers numerous options for multiple clamping, whether in larger horizontal machining centers or smaller 3- or 5-axis machines, to automatically extend machine runtimes while at the same time reducing tool changes.

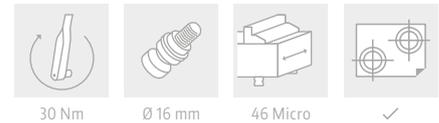


Quick-Point® 52 single plates

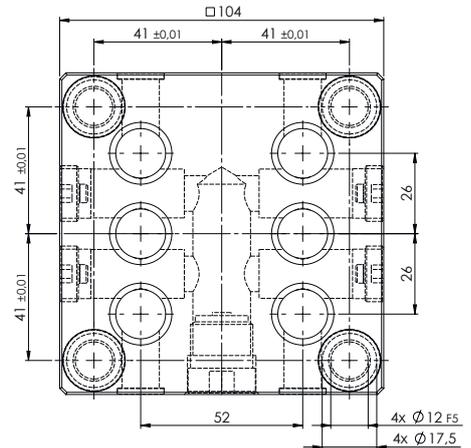


NEW

QUICK-POINT® 52 DUO2, GRID PLATE 85 × 85 × 27 MM, WITHOUT MOUNTING BORES

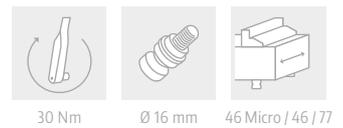


ITEM NO.	DIMENSIONS	WEIGHT
45602	85 × 85 × 27 mm	1.4 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	



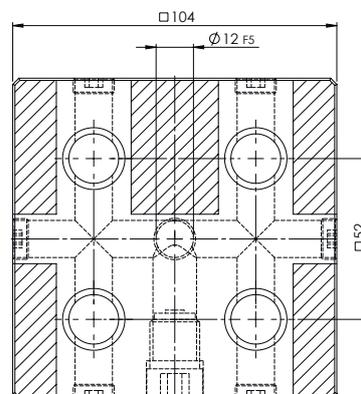
NEW

QUICK-POINT® 52 DUO6, GRID PLATE 104 × 104 × 27 MM, WITH MOUNTING BORES FOR QUICK-TOWER

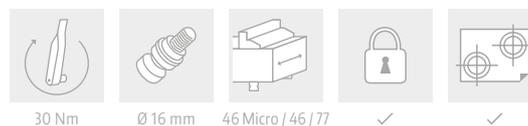


ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
75606	104 × 104 × 27 mm	82 × 82 mm	1.8 kg

Includes: 4 × M 10 × 35 screws, 2 pcs. Ø 12 × 12 mm bushings (Item No. 45000-09).
This product is also shown on page 66.

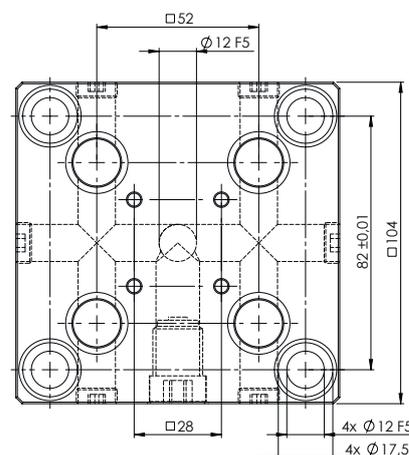


QUICK-POINT® 52, GRID PLATE
104 × 104 × 27 MM, WITHOUT MOUNTING BORES

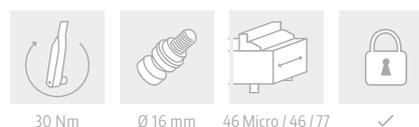


ITEM NO.	DIMENSIONS	WEIGHT
45600	104 × 104 × 27 mm	2.0 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 44552 (page 72).



QUICK-POINT® 52, GRID PLATE
104 × 104 × 27 MM, WITH MOUNTING BORES FOR QUICK-TOWER



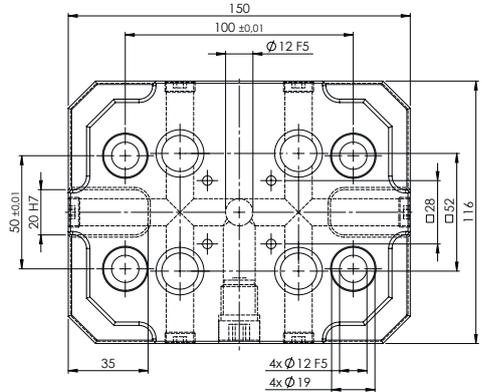
ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
75600	104 × 104 × 27 mm	82 × 82 mm	1.8 kg

Suitable Quick-Lock: Item No. 44552 (page 72).

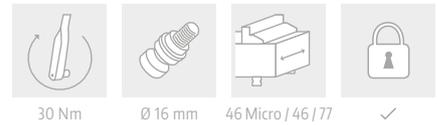
Includes: 4 × M 10 × 35 screws, 2 pcs. Ø 12 × 12 mm bushings (Item No. 45000-09).

This product is also shown on page 66.

Quick-Point® 52 single plates

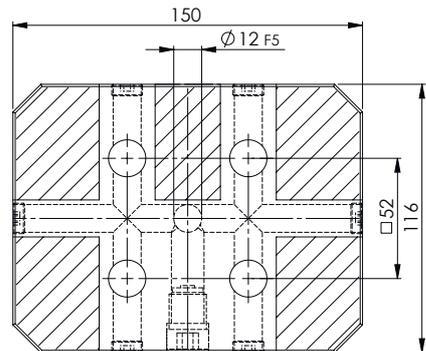


QUICK-POINT® 52, PLATE WITH CLAMPING EDGE 150 × 116 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45150	150 × 116 × 27 mm	100 × 50 mm	2.8 kg

Suitable Quick-Lock: Item No. 44552 (page 72).

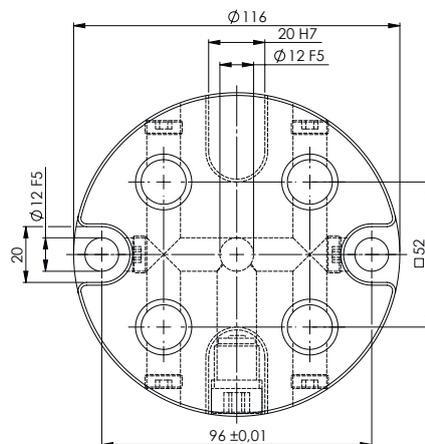


QUICK-POINT® 52, PLATE WITHOUT CLAMPING EDGE 150 × 116 × 27 MM, WITHOUT MOUNTING BORES

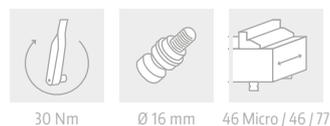


ITEM NO.	DIMENSIONS	WEIGHT
45151	150 × 116 × 27 mm	3.3 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

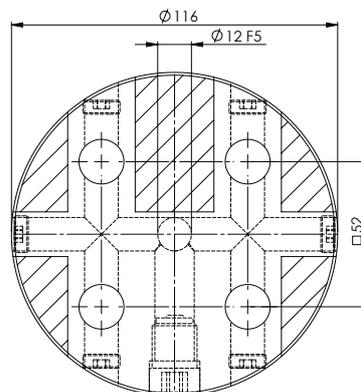
Suitable Quick-Lock: Item No. 44552 (page 72).



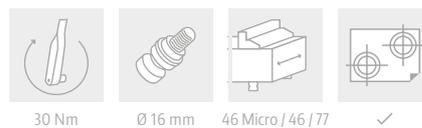
QUICK-POINT® 52, ROUND PLATE
Ø 116 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45750	Ø 116 × 27 mm	96 mm spacing	1.8 kg

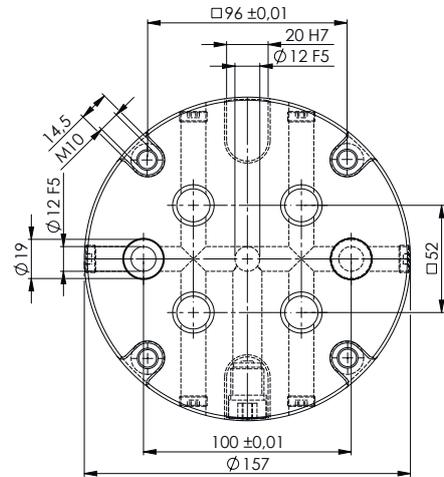


QUICK-POINT® 52, ROUND PLATE
Ø 116 × 27 MM, WITHOUT MOUNTING BORES

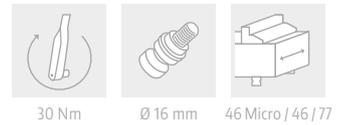


ITEM NO.	DIMENSIONS	WEIGHT
45751	Ø 116 × 27 mm	1.9 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Quick-Point® 52 single plates

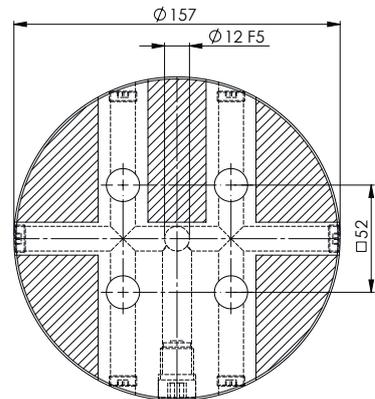


QUICK-POINT® 52, ROUND PLATE Ø 157 × 27 MM

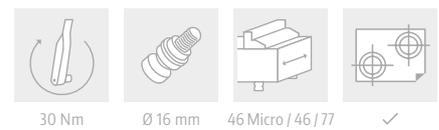


ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45900	Ø 157 × 27 mm	100 mm spacing	3.4 kg

Note: This round plate can be converted into an adapter plate by inserting 4 × Quick-Point® clamping studs Ø 20 mm, Item No. 45570, into the M10 threads.



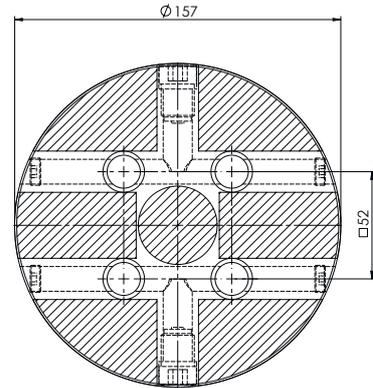
QUICK-POINT® 52, ROUND PLATE Ø 157 × 27 MM, WITHOUT MOUNTING BORES



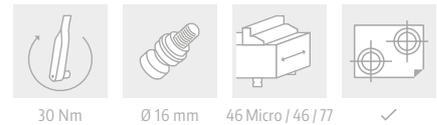
ITEM NO.	DIMENSIONS	WEIGHT
45901	Ø 157 × 27 mm	3.7 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Quick·Point® 52 single plate for individual center bore

A center bore with individually selectable diameter and tolerance provides the option for access to rotary joints.



QUICK·POINT® 52, ROUND PLATE Ø 157 × 27 MM, FOR INDIVIDUAL CENTER BORE



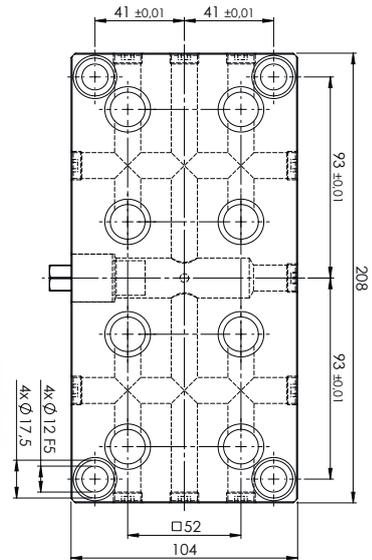
ITEM NO.	DIMENSIONS	MAX. Ø CENTER BORE	WEIGHT
45903	Ø 157 × 27 mm	38 mm	3.7 kg
45004		Set mounting bores according to customer's request	
45002		Set keyways according to customer's request	
45009		Set center bore according to customer's request	

Possible modification:

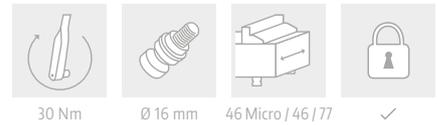


- 1 × center bore Ø 38 mm
- 1 × keyway 20H7
- 4 × mounting bores for M8 screws, incl. step for Ø 15 mm cover discs, for machine tables with 6 × 60° grooves

Quick-Point® 52 multi plates



QUICK-POINT® 52, 2-FOLD GRID PLATE 208 × 104 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45621	208 × 104 × 27 mm	186 × 82 mm	3.8 kg

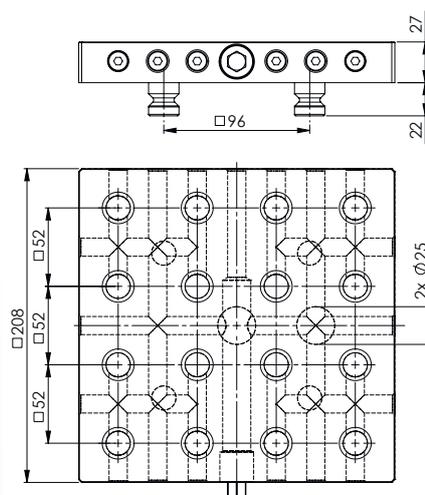
Suitable Quick-Lock: Item No. 45252 (page 72).



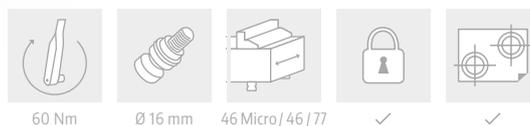
Note:

Suitable for our tombstones!

With its mounting holes, the 2-fold grid plate can be attached to the 3- and 4-face tombstones, as well as to the Quick-Tower.

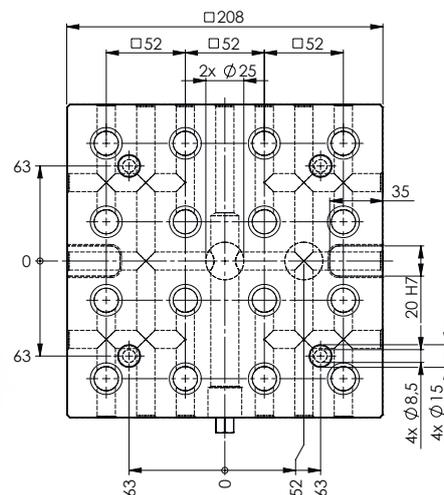


QUICK-POINT® 52, 4-FOLD GRID PLATE
208 × 208 × 27 MM, WITHOUT MOUNTING BORES

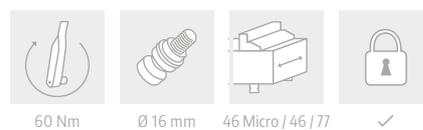


ITEM NO.	DIMENSIONS	WEIGHT
45640	208 × 208 × 27 mm	8.3 kg
45644	Set mounting bores according to customer's request	
45642	Set keyways according to customer's request	

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).
 Suitable Quick-Lock: Item No. 45452 (page 72).



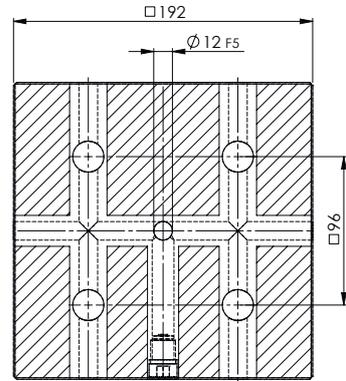
QUICK-POINT® 52, 4-FOLD PLATE
208 × 208 × 27 MM, WITH MOUNTING BORES FOR 63 MM T-SLOT TABLES



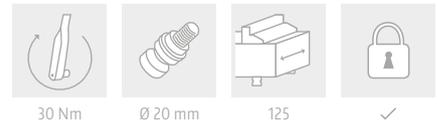
ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45641	208 × 208 × 27 mm	for 63 mm t-slot distance	8.0 kg

Suitable Quick-Lock: Item No. 45452 (page 72).

Quick-Point® 96 single plates

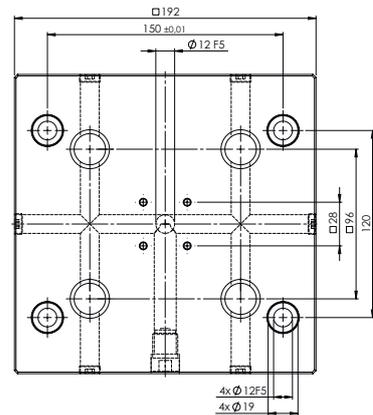


QUICK-POINT® 96, GRID PLATE 192 × 192 × 27 MM, WITHOUT MOUNTING BORES

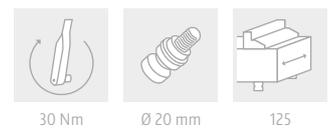


ITEM NO.	DIMENSIONS	WEIGHT
45710	192 × 192 × 27 mm	7.3 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 44596 (page 72).

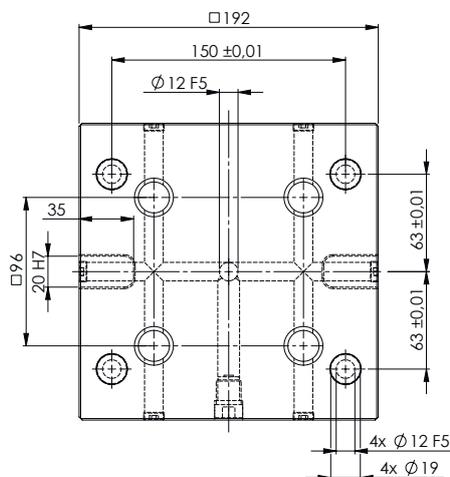


QUICK-POINT® 96, GRID PLATE 192 × 192 × 27 MM, WITH MOUNTING BORES FOR QUICK-TOWER

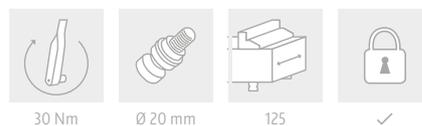


ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
75710	192 × 192 × 27 mm	150 × 120 mm	7.2 kg

Suitable Quick-Lock: Item No. 44596 (page 72).
This product is also shown on page 67.



QUICK-POINT® 96, GRID PLATE
192 × 192 × 27 MM, WITH MOUNTING BORES FOR 63 MM T-SLOT TABLES



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45763	192 × 192 × 27 mm	for 63 mm t-slot distance	7.1 kg

Suitable Quick-Lock: Item No. 44596 (page 72).

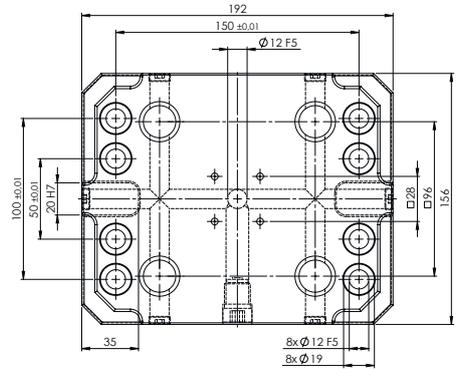


Note:

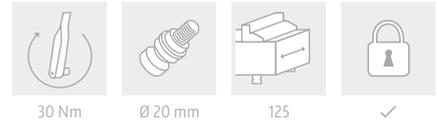
Also available as combi plates!

The square grid plate also comes in two different combi plate versions with 52 / 96 mm zero point grid. Both types are shown on page 42.

Quick-Point® 96 single plate

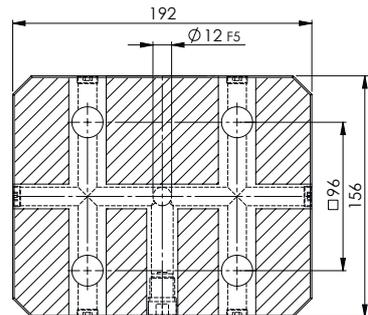


QUICK-POINT® 96, PLATE WITH CLAMPING EDGE 192 × 156 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45400	192 × 156 × 27 mm	150 × 100 / 50 mm	5.2 kg

Suitable Quick-Lock: Item No. 44596 (page 72).

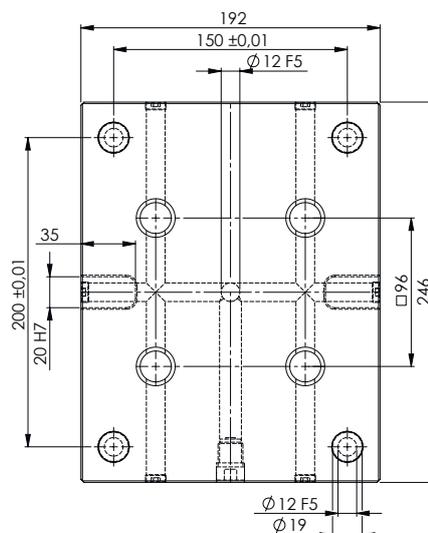


QUICK-POINT® 96, PLATE WITHOUT CLAMPING EDGE 192 × 156 × 27 MM, WITHOUT MOUNTING BORES

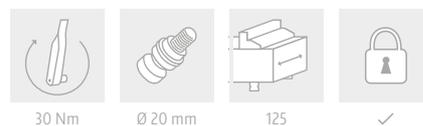


ITEM NO.	DIMENSIONS	WEIGHT
45401	192 × 156 × 27 mm	5.9 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 44596 (page 72).

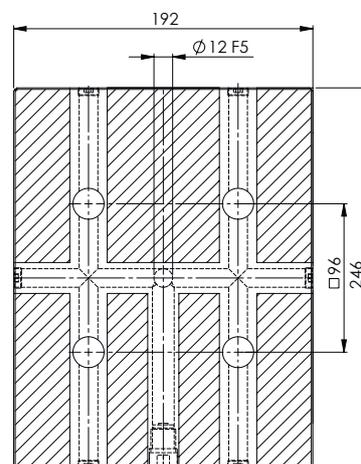


QUICK-POINT® 96, EXTENDED GRID PLATE
246 × 192 × 27 MM, WITH MOUNTING BORES FOR 100 MM T-SLOT TABLES

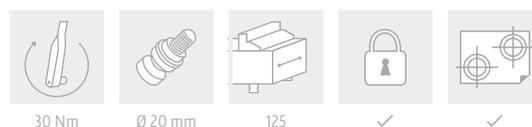


ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45715	246 × 192 × 27 mm	for 100 mm t-slot distance	9.2 kg

Suitable Quick-Lock: Item No. 44596 (page 72).



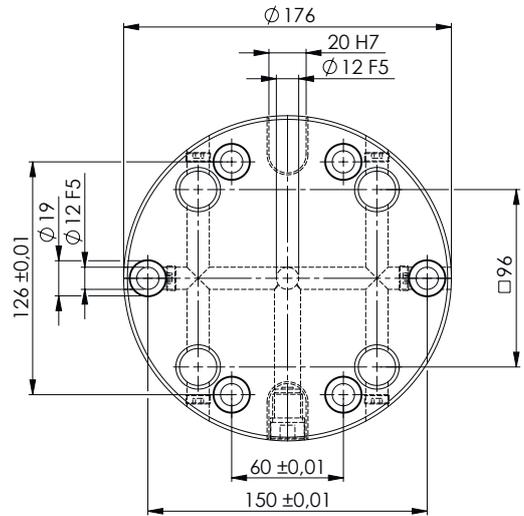
QUICK-POINT® 96, EXTENDED GRID PLATE
246 × 192 × 27 MM, WITHOUT MOUNTING BORES



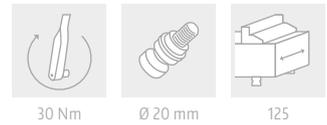
ITEM NO.	DIMENSIONS	WEIGHT
45716	246 × 192 × 27 mm	9.4 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 44596 (page 72).

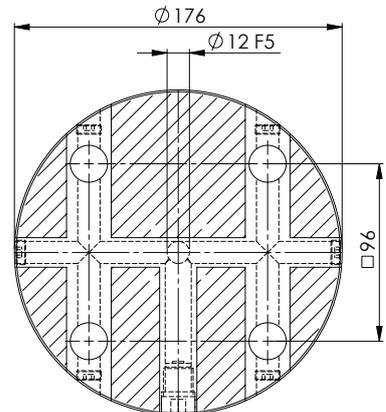
Quick-Point® 96 single plates



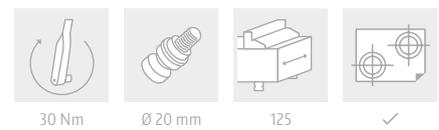
QUICK-POINT® 96, ROUND PLATE
Ø 176 × 27 MM



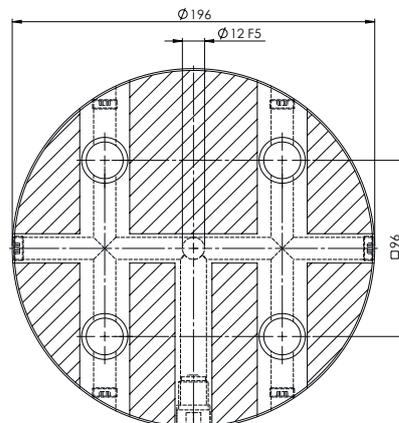
ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45800	Ø 176 × 27 mm	for 63 mm t-slot distance and 150 mm spacing	4.5 kg



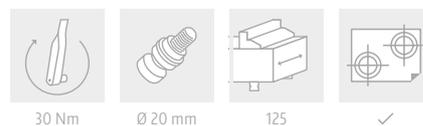
QUICK-POINT® 96, ROUND PLATE
Ø 176 × 27 MM, WITHOUT MOUNTING BORES



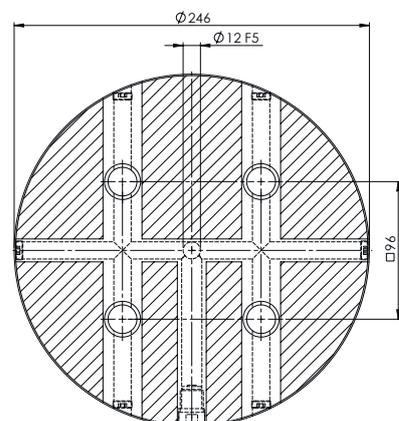
ITEM NO.	DIMENSIONS	WEIGHT
45801	Ø 176 × 27 mm	4.8 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	



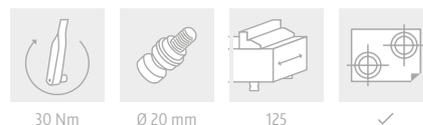
QUICK-POINT® 96, ROUND PLATE
Ø 196 × 27 MM, WITHOUT MOUNTING BORES



ITEM NO.	DIMENSIONS	WEIGHT
45820	Ø 196 × 27 mm	5.9 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

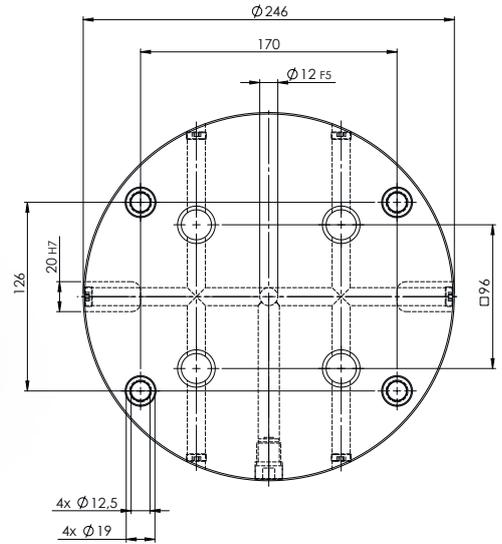


QUICK-POINT® 96, ROUND PLATE
Ø 246 × 27 MM, WITHOUT MOUNTING BORES

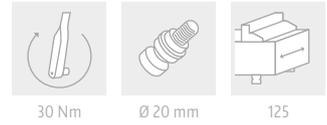


ITEM NO.	DIMENSIONS	WEIGHT
45840	Ø 246 × 27 mm	9.5 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

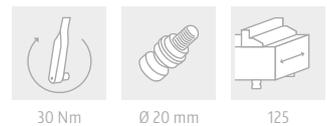
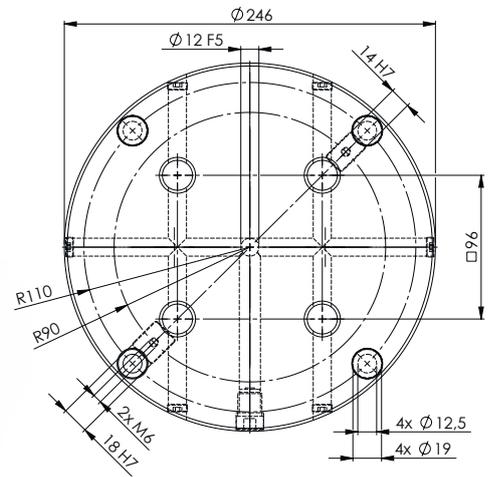
Quick-Point® 96 single plates



QUICK-POINT® 96, ROUND PLATE
Ø 246 × 27 MM, WITH MOUNTING BORES FOR 63 MM T-SLOT TABLES



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45863	Ø 246 × 27 mm	for 63 mm t-slot distance	9.2 kg



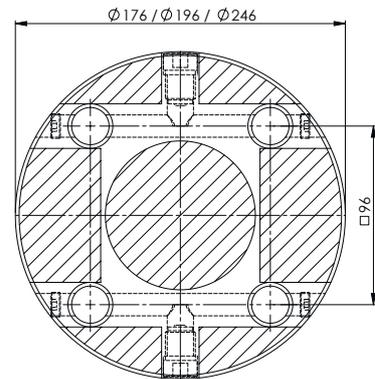
QUICK-POINT® 96, ROUND PLATE
Ø 246 × 27 MM, WITH MOUNTING BORES FOR TABLES WITH 90° GROOVES

ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45890	Ø 246 × 27 mm	4 × 90° / Radius 110 mm	9.2 kg

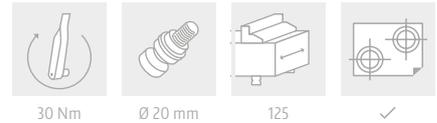
Suitable slot keys: Item No. 452214 / 452218 (page 75).

Quick·Point® 96 single plates for individual center bore

A center bore with individually selectable diameter and tolerance provides the option for access to rotary joints.



QUICK·POINT® 96, ROUND PLATES Ø 176 / 196 / 246 × 27 MM, FOR INDIVIDUAL CENTER BORE



ITEM NO.	DIMENSIONS	MAX. Ø CENTER BORE	WEIGHT
45803	Ø 176 × 27 mm	80 mm	4.8 kg
45823	Ø 196 × 27 mm	80 mm	6.0 kg
45843	Ø 246 × 27 mm	80 mm	9.6 kg
45004	Set mounting bores according to customer's request		
45002	Set keyways according to customer's request		
45009	Set center bore according to customer's request		

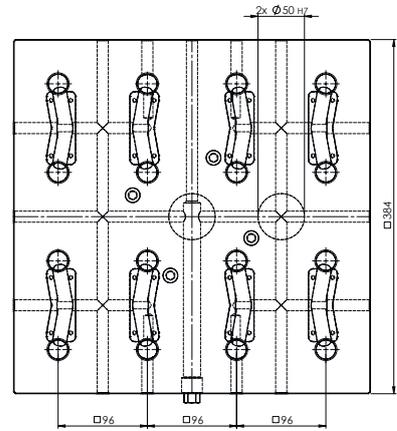
Possible modification:



- 1 × center bore Ø 80 mm
- 1 × 130 H6 tapered fitting
- 4 × mounting bores for M12 screws, incl. step for Ø 20 mm cover discs, for machine tables with 6 × 60° grooves

Quick-Point® 96 multi plates

EVEN STRONGER, THANKS TO NEW MECHANICS 



QUICK-POINT® 96, 4-FOLD GRID PLATE
384 × 384 × 27 MM, WITHOUT MOUNTING BORES



60 Nm



Ø 20 mm



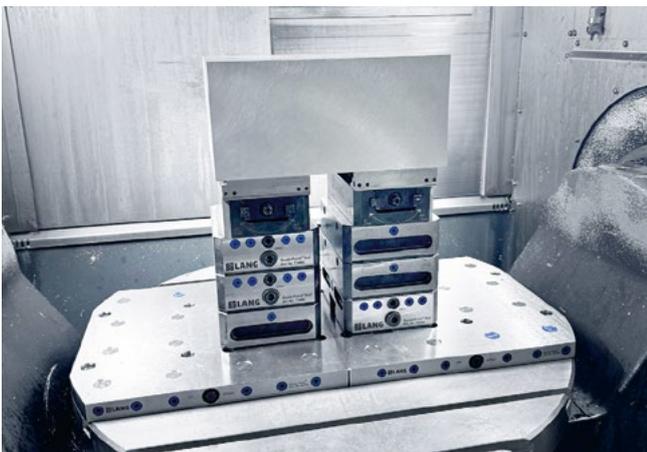
125



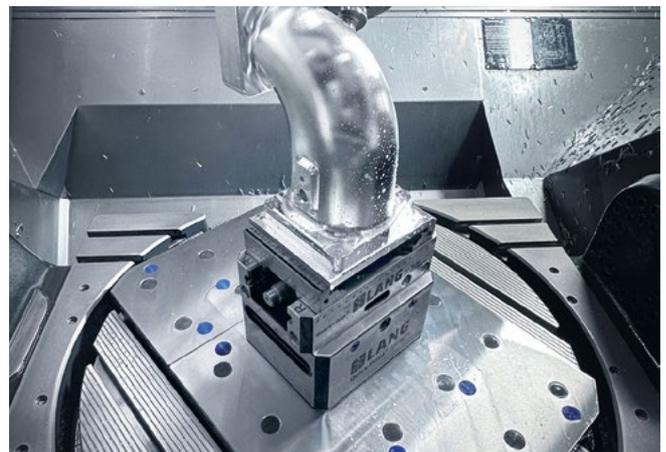
✓

ITEM NO.	DIMENSIONS	WEIGHT
45740	384 × 384 × 27 mm	29.4 kg
45044	Set mounting bores according to customer's request	
45042	Set keyways according to customer's request	

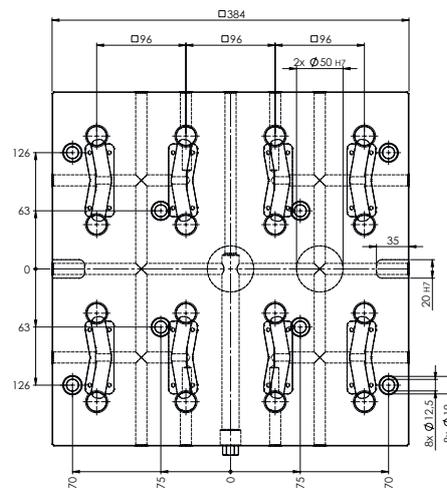
Applications



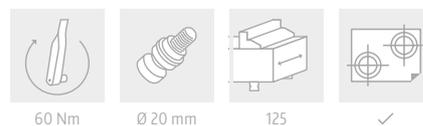
T. Zimmer Maschinenbau & CNC-Technik



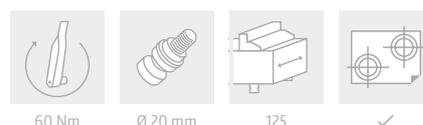
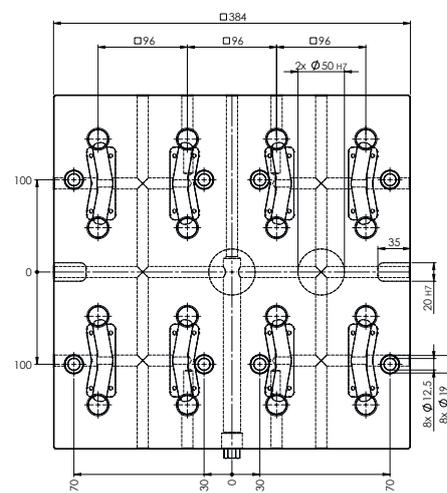
Nueva Precision



QUICK-POINT® 96, 4-FOLD GRID PLATE
384 × 384 × 27 MM, WITH MOUNTING BORES FOR 63 MM T-SLOT TABLES



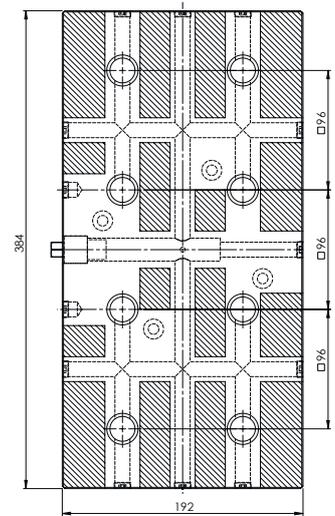
ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45741	384 × 384 × 27 mm	for 63 mm t-slot distance	28.9 kg



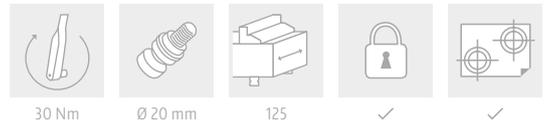
QUICK-POINT® 96, 4-FOLD GRID PLATE
384 × 384 × 27 MM, WITH MOUNTING BORES FOR 100 MM T-SLOT TABLES

ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45742	384 × 384 × 27 mm	for 100 mm t-slot distance	28.9 kg

Quick-Point® 96 multi plates

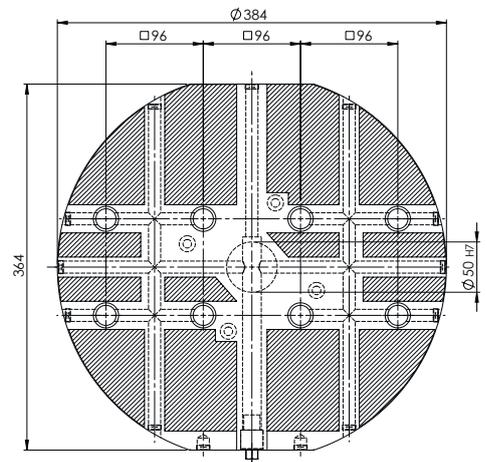


QUICK-POINT® 96, 2-FOLD GRID PLATE 384 × 192 × 27 MM, WITHOUT MOUNTING BORES



ITEM NO.	DIMENSIONS	WEIGHT
45720	384 × 192 × 27 mm	14.6 kg
45024	Set mounting bores according to customer's request	
45022	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 45296 (page 72).

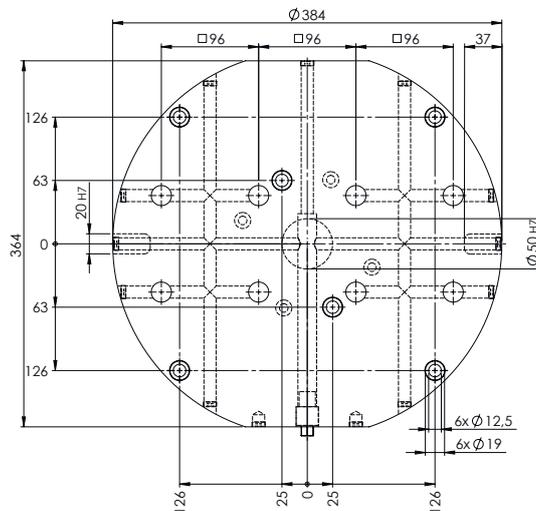


QUICK-POINT® 96, 2-FOLD GRID PLATE, ROUND Ø 384 × 27 MM, WITHOUT MOUNTING BORES

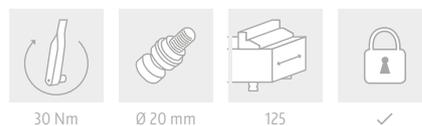


ITEM NO.	DIMENSIONS	WEIGHT
45962	Ø 384 × 27 mm	22.8 kg
45044	Set mounting bores according to customer's request	
45042	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 45996 (page 72).

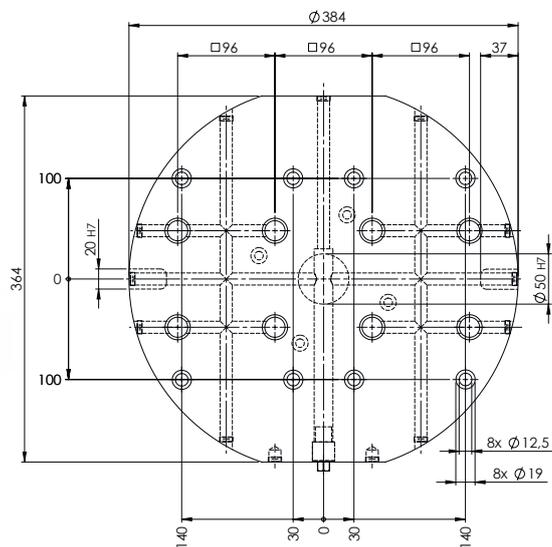


**QUICK-POINT® 96, 2-FOLD GRID PLATE, ROUND
Ø 384 × 27 MM, WITH MOUNTING BORES FOR 63 MM T-SLOT TABLES**



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45963	Ø 384 × 27 mm	for 63 mm t-slot distance	22.6 kg

Suitable Quick-Lock: Item No. 45996 (page 72).

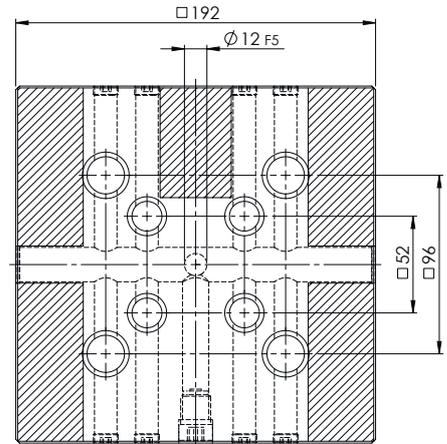


**QUICK-POINT® 96, 2-FOLD GRID PLATE, ROUND
Ø 384 × 27 MM, WITH MOUNTING BORES FOR 100 MM T-SLOT TABLES**

ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45964	Ø 384 × 27 mm	for 100 mm t-slot distance	22.4 kg

Suitable Quick-Lock: Item No. 45996 (page 72).

Quick-Point® 52 / 96 combi plates

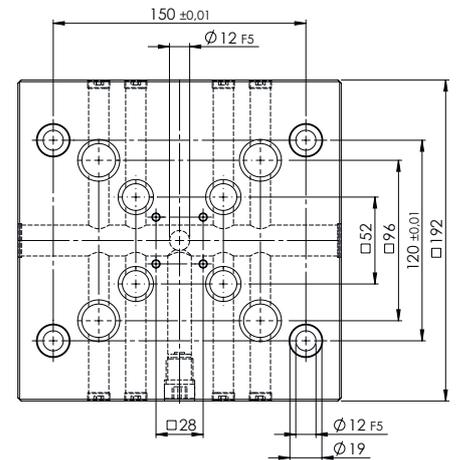


QUICK-POINT® 52 / 96, COMBI GRID PLATE 192 × 192 × 27 MM, WITHOUT MOUNTING BORES

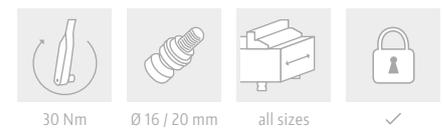


ITEM NO.	DIMENSIONS	WEIGHT
45748	192 × 192 × 27 mm	6.8 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Suitable Quick-Lock: Item No. 44552 or 44596 (page 72).



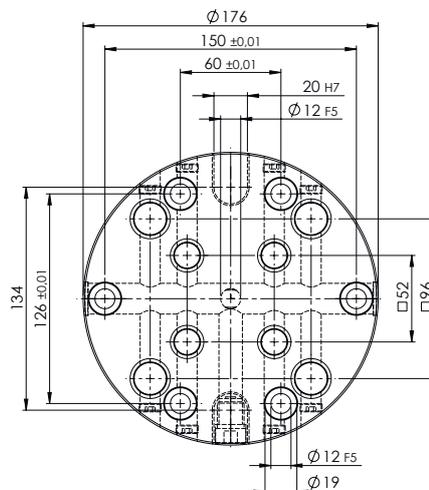
QUICK-POINT® 52 / 96, COMBI GRID PLATE 192 × 192 × 27 MM, WITH MOUNTING BORES FOR QUICK-TOWER



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
75748	192 × 192 × 27 mm	150 × 120 mm	6.6 kg

Suitable Quick-Lock: Item No. 44552 or 44596 (page 72).

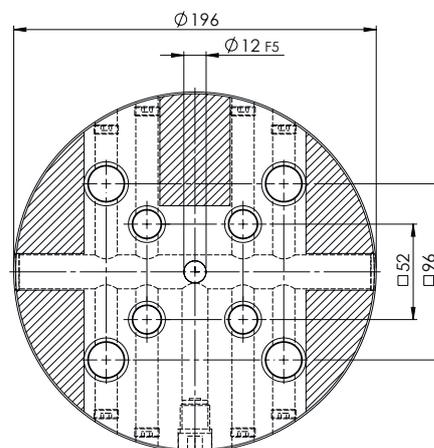
This product is also shown on page 67.



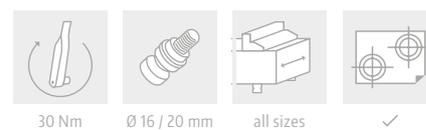
**QUICK-POINT® 52 / 96, COMBI ROUND PLATE
Ø 176 × 27 MM**



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45480	Ø 176 × 27 mm	for 63 mm t-slot distance and 150 mm spacing	4.1 kg

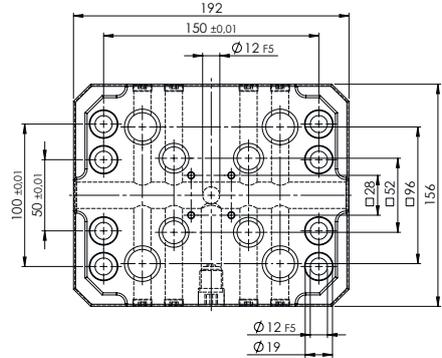


**QUICK-POINT® 52 / 96, COMBI ROUND PLATE
Ø 196 × 27 MM, WITHOUT MOUNTING BORES**

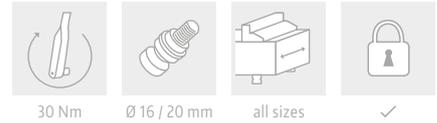


ITEM NO.	DIMENSIONS	WEIGHT
45482	Ø 196 × 27 mm	5.4 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Quick-Point® 52 / 96 combi plate / twin base

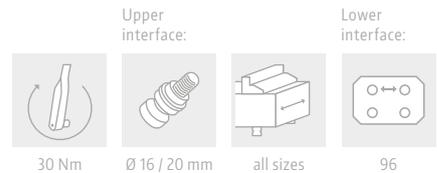
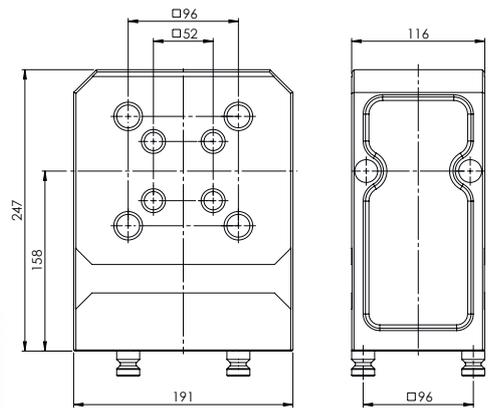


QUICK-POINT® 52 / 96, COMBI PLATE WITH CLAMPING EDGE 192 × 156 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
45448	192 × 156 × 27 mm	150 × 100 / 50 mm	4.8 kg

Suitable Quick-Lock: Item No. 44552 or 44596 (page 72).

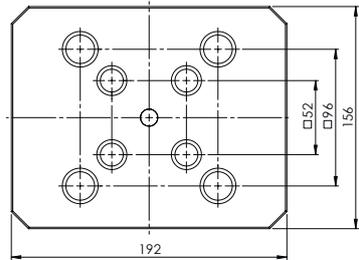
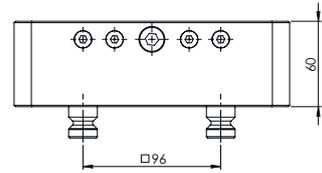


QUICK-POINT® 52 / 96, COMBI TWIN BASE

ITEM NO.	DIMENSIONS	WEIGHT
47548	192 × 116 × 247 mm	26.5 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).
 Suitable Quick-Lock: Item No. 44552 or 44596 (page 72).
 This product is also shown on page 55.

Quick·Point® 52 / 96 combi 5-axis riser



QUICK·POINT® 52 / 96, COMBI 5-AXIS RISER 192 × 156 × 60 MM

Upper interface:

Lower interface:



30 Nm



Ø 16 / 20 mm



all sizes



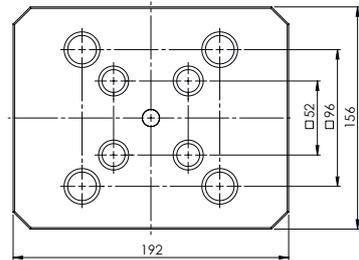
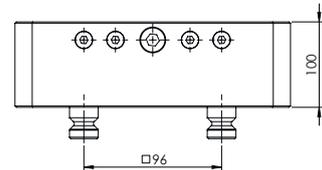
✓



96

ITEM NO.	DIMENSIONS	WEIGHT
45486	192 × 156 × 60 mm	10.9 kg

Includes: 4 Quick·Point® 96 clamping studs Ø 20 mm (Item No. 45570).
Suitable Quick·Lock: Item No. 44552 or 44596 (page 72).



QUICK·POINT® 52 / 96, COMBI 5-AXIS RISER 192 × 156 × 100 MM

Upper interface:

Lower interface:



30 Nm



Ø 16 / 20 mm



all sizes



✓

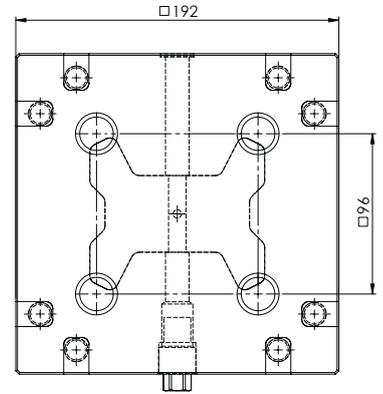


96

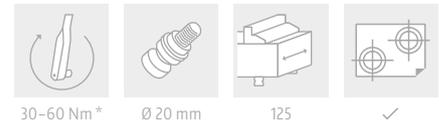
ITEM NO.	DIMENSIONS	WEIGHT
45487	192 × 156 × 100 mm	17.8 kg

Includes: 4 Quick·Point® 96 clamping studs Ø 20 mm (Item No. 45570).
Suitable Quick·Lock: Item No. 44552 or 44596 (page 72).

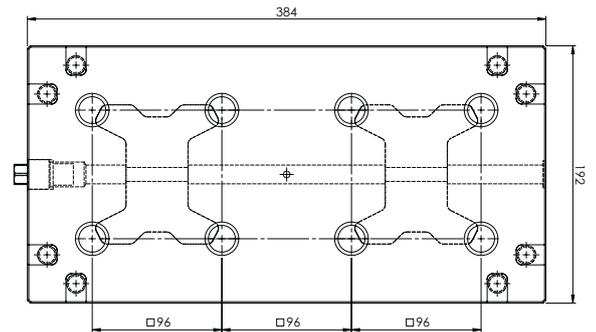
Quick-Point® modular plates



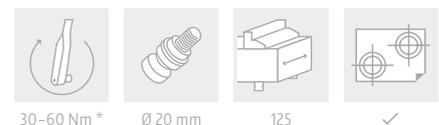
QUICK-POINT® 96, MODULAR PLATE 192 × 192 × 27 MM, WITHOUT MOUNTING BORES



ITEM NO.	DIMENSIONS	WEIGHT
85710	192 × 192 × 27 mm	7.2 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	



QUICK-POINT® 96, 2-FOLD MODULAR PLATE 384 × 192 × 27 MM, WITHOUT MOUNTING BORES



ITEM NO.	DIMENSIONS	WEIGHT
85720	384 × 192 × 27 mm	14.7 kg
45024	Set mounting bores according to customer's request	
45022	Set keyways according to customer's request	



QUICK-POINT® CONVERSION KIT FOR MODULAR PLATES

ITEM NO.	QTY	WEIGHT
85700	1 pressure bolt, 2 connectors	0.3 kg

The conversion set, which includes a pressure bolt and two connectors, is required when modular plates are to be connected in series, in order to operate the entire clamping mechanism via the tightening screw of the front modular plate. Due to the precise fit of the connectors the alignment of modular plates towards each other is no longer necessary.



QUICK-POINT® CONNECTOR SET FOR MODULAR PLATES

ITEM NO.	QTY	WEIGHT
85701	2 pcs.	0.1 kg

The connector set for the Quick-Point® modular plates is not only part of the the conversion kit (item no. 85700), but available individually, in order to connect neighboring modular plates with each other and to enable a zero point grid across the plates in x-direction. Due to the precise fit with the recesses of the zero point plate, connected modular plates no longer have to be aligned to each other.



QUICK-POINT® COVERS FOR MODULAR PLATES

ITEM NO.	QTY	WEIGHT
85702	10 pcs.	0.05 kg

The plastic covers close those recesses of the Quick-Point® modular plates to which no further modular plate is added. They are available in sets of 10. Both modular plates (Item No. 85710 and 85720) are supplied with 8 covers each.

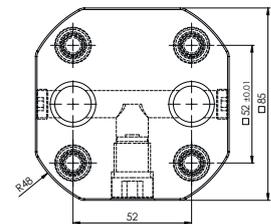
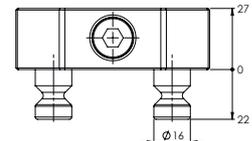
Combination options for the modular plates

A single actuation screw can be used to clamp and release up to five clamping units simultaneously (two 2-fold modular plates + one modular plate). The single modular plate must always be placed at the rear end of the combination.



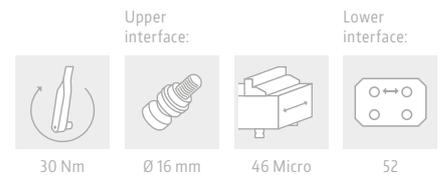
Quick-Point® adapter plates

The adapter plate emphasizes the modularity and versatility of the zero point clamping system. It facilitates the change from the large 96 mm grid size to the small 52 mm grid size if the user has not only large but also small clamping devices in use. Here, and thanks to the raised position of the clamping device, the adapter plate improves accessibility when machining small components.



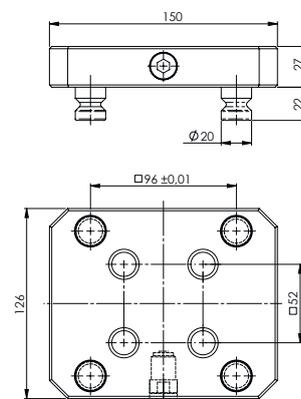
NEW

QUICK-POINT® DUO2, ADAPTER PLATE 85 × 85 × 27 MM



ITEM NO.	DIMENSIONS	WEIGHT
45162	85 × 85 × 27 mm	1.4 kg

Includes: 4 Quick-Point® 52 clamping studs Ø 16 mm (Item No. 45270).

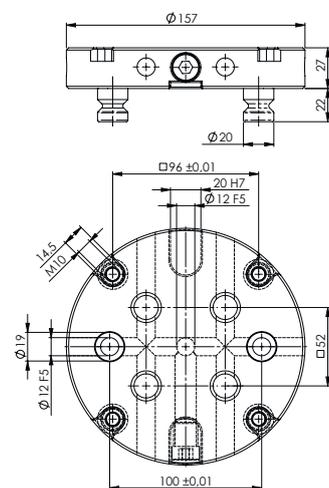


QUICK-POINT® ADAPTER PLATE
150 × 126 × 27 MM

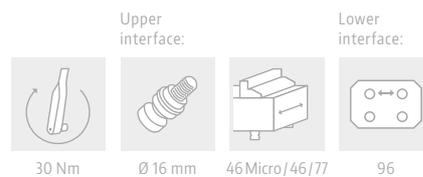


ITEM NO.	DIMENSIONS	WEIGHT
45160	150 × 126 × 27 mm	3.6 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).
 Suitable Quick-Lock: Item No. 44552 (page 72).



QUICK-POINT® ADAPTER PLATE, ROUND
Ø 157 × 27 MM



ITEM NO.	DIMENSIONS	WEIGHT
45910	Ø 157 × 27 mm	3.6 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).

Quick-Point® 5-axis risers

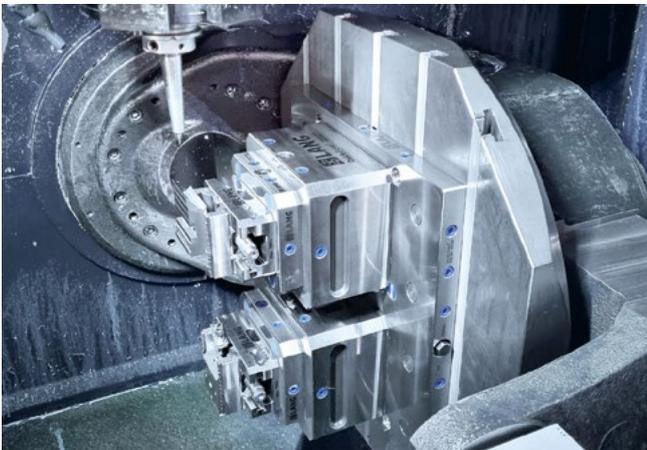
5-axis risers create distance between the machine table and the workpiece, which improves accessibility for 5-sided machining. The integrated clamping studs guarantee a fast and precise set-up process.



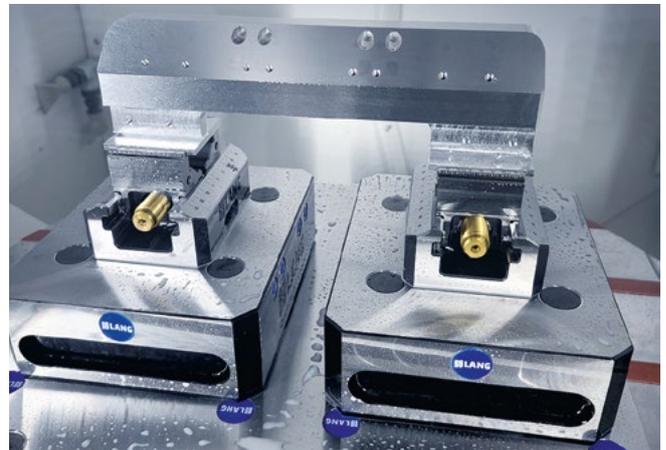
Note: Can be used with both grid sizes!

On the underside of the Quick-Point® 52, 5-axis riser, there are holes for mounting clamping studs Ø 20 mm for use in the large Quick-Point® 96 system. This means that a Quick-Point® 52, 5-axis riser can be used as an “elevated adapter”.

Applications



Goldbach Zerspanungs-GmbH & Co. KG



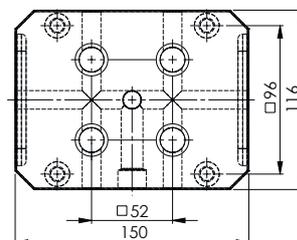
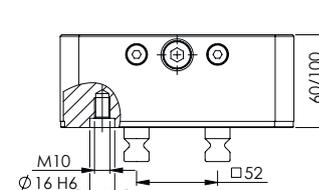
Jian Hsin Precision Machinery Co., Ltd.

Note:

Also available as combi riser!

The 5-axis risers are also available as a combi type solution with integrated 52 / 96 mm zero point grid. Both types are shown on page 45.





Upper interface:



30 Nm



Ø 16 mm



46 Micro / 46 / 77

Lower interface:

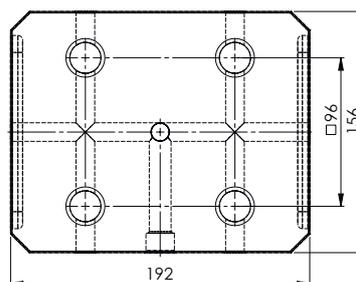
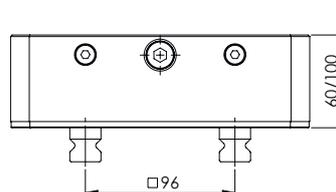


52 / 96

QUICK-POINT® 52, 5-AXIS RISER

ITEM NO.	DIMENSIONS	WEIGHT
45156	150 × 116 × 60 mm	6.1 kg
45157	150 × 116 × 100 mm	10.0 kg

Includes: 4 Quick-Point® 52 clamping studs Ø 16 mm (Item No. 45270).
Suitable Quick-Lock: Item No. 44552 (page 72).



Upper interface:



30 Nm



Ø 20 mm



125

Lower interface:



96

QUICK-POINT® 96, 5-AXIS RISER

ITEM NO.	DIMENSIONS	WEIGHT
45406	192 × 156 × 60 mm	11.2 kg
45407	192 × 156 × 100 mm	18.0 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).
Suitable Quick-Lock: Item No. 44596 (page 72).

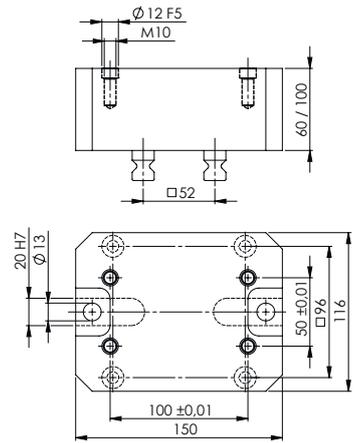
Quick-Point® spacer

The aluminium spacer improves accessibility in 5-sided machining and can either be mounted directly and firmly on the machine table or set up and removed on a zero point plate. It is available in round and rectangular versions in heights of 60 and 100 mm.

Suitable plate:



45150



Upper interface:
45150

Lower interface:



Ø 16 mm

46Micro / 46 / 77

52 / 96

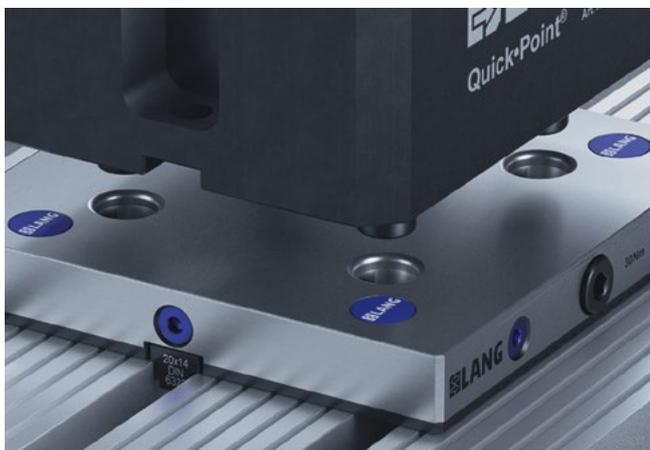
QUICK-POINT® 52, SPACER

ITEM NO.	DIMENSIONS	WEIGHT
43060	150 × 116 × 60 mm	2.7 kg
43100	150 × 116 × 100 mm	4.5 kg

Includes: 4 Quick-Point® 52 clamping studs Ø 16 mm (Item No. 45270), 4 × M 10 screws, 2 × Ø 12 × 12 mm bushings (Item No. 45000-09).

On the underside of the Quick-Point® spacer, there are holes for mounting clamping studs Ø 20 mm for use in the large Quick-Point® 96 system.

Mounting options

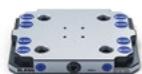


The spacer is clamped via its clamping studs in a zero point plate. This is particularly useful when the clamping situation is regularly changed.



If the spacer is to remain permanently on the machine table, it can be attached directly in the slots of the machine table. In this case, a zero point plate and its added height of 27 mm can be saved.

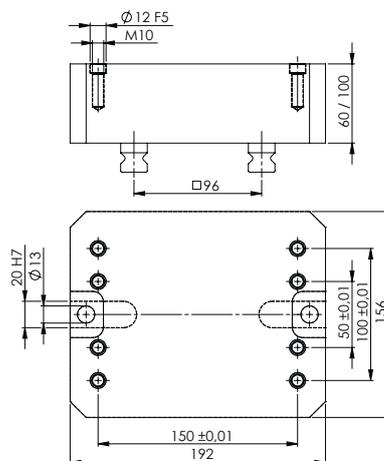
Suitable plates:



45400



45448



Upper interface
45400 / 45448:

Lower interface:



Ø 20 mm



125



96

QUICK-POINT® 96, SPACER

ITEM NO.	DIMENSIONS	WEIGHT
44060	192 × 156 × 60 mm	4.9 kg
44100	192 × 156 × 100 mm	8.1 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570), 4 × M 10 screws, 2 × Ø 12 × 12 mm bushings (Item No. 45000-09).

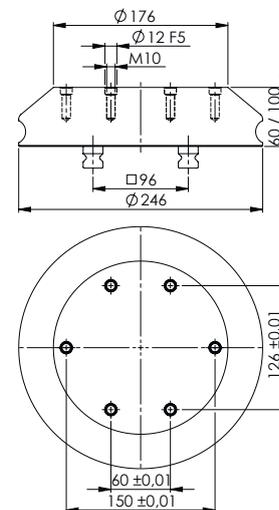
Suitable plates:



45800



45480



Upper interface
45800 / 45480:

Lower interface:



Ø 20 mm



125



96

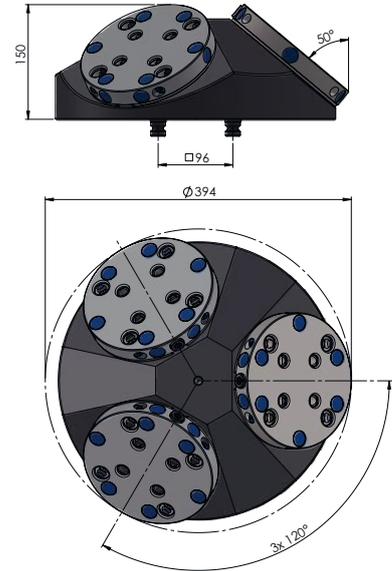
QUICK-POINT® 96, SPACER, ROUND

ITEM NO.	HEIGHT	DIAMETER	WEIGHT
44006	60 mm	bottom: 246 mm, top: 176 mm	7.1 kg
44010	100 mm	bottom: 246 mm, top: 176 mm	12.4 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570), 4 × M 10 screws, 2 × Ø 12 × 12 mm bushings (Item No. 45000-09). Individual mounting bores in the sloping surface possible.

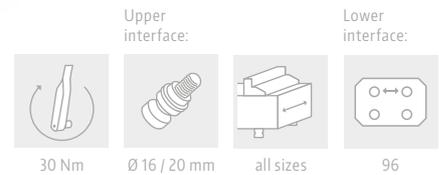
Quick-Point® 3-face pyramid

The 3-sided pyramid made of high-strength aluminium offers excellent accessibility for 5-axis machining. This multiple clamping solution is ideal for increasing the machine runtime of CNC machining centers. Thanks to the combi zero point plates with both 52 and 96 mm grid sizes, any size of LANG vise can be used for machining.



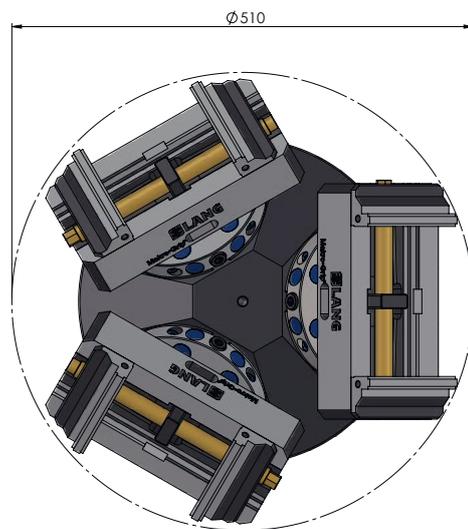
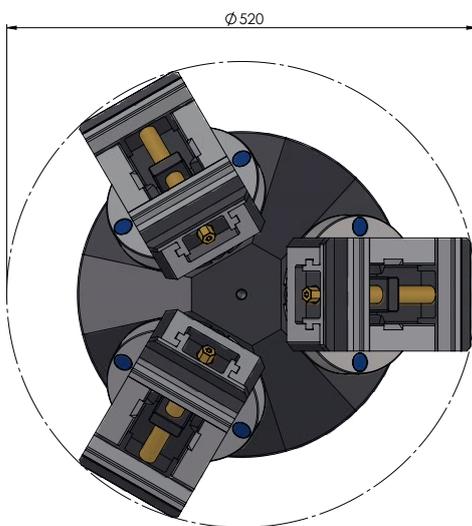
NEW VERSION

QUICK-POINT® 52 / 96, 3-FACE PYRAMID



ITEM NO.	DIMENSIONS	WEIGHT
43360	Ø 394 × 150 mm	34.5 kg

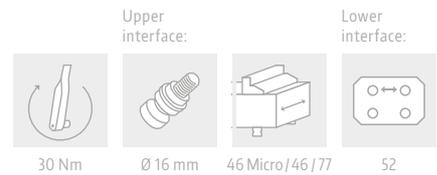
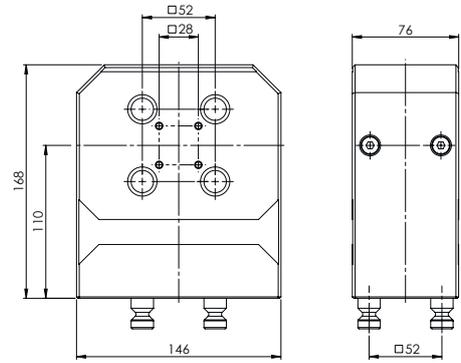
Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).



The 3-face pyramid can clamp Makro-Grip® 5-axis vises with a maximum length of 210 mm when mounted vertically (left), whereas the maximum length is 260 mm when mounted horizontally (right).

Quick·Point® twin bases

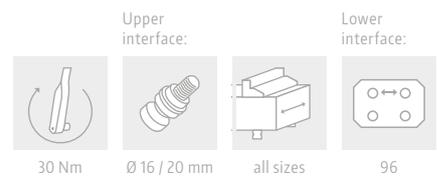
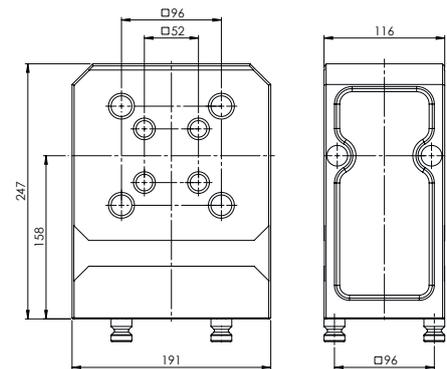
The hardened and ground twin base is ideal for manufacturing 5-axis parts with a 3-axis machine tool. Workpieces can be positioned $4 \times 90^\circ$ safely and with a high repeat accuracy.



QUICK-POINT® 52, TWIN BASE

ITEM NO.	DIMENSIONS	WEIGHT
47220	146 × 76 × 168 mm	13.8 kg

Suitable Quick-Lock: Item No. 44552 (page 72).



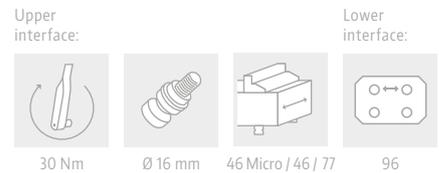
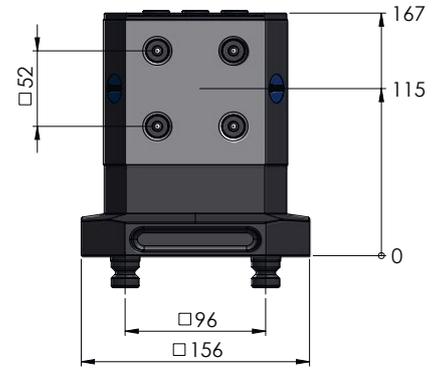
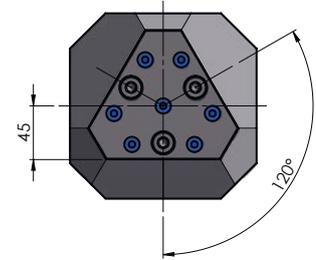
QUICK-POINT® 52 / 96, COMBI TWIN BASE

ITEM NO.	DIMENSIONS	WEIGHT
47548	192 × 116 × 247 mm	26.5 kg

Suitable Quick-Lock: Item No. 44552 or 44596 (page 72).
This product is also shown on page 44.

Quick-Point® Tri-Top 3-face tombstone

With its stable steel base body, the Tri-Top guarantees maximum precision. Despite its robustness, it is easy to handle and has the same interference contours as its predecessor. The triple zero point system can clamp Makro-Grip® 46 (Micro) and 77 vises, and reduces downtime and tool changes during milling.



QUICK-POINT® 52, TRI-TOP 3-FACE TOMBSTONE

ITEM NO.	DIMENSIONS	WEIGHT
43352	156 × 156 × 167 mm	10.0 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).



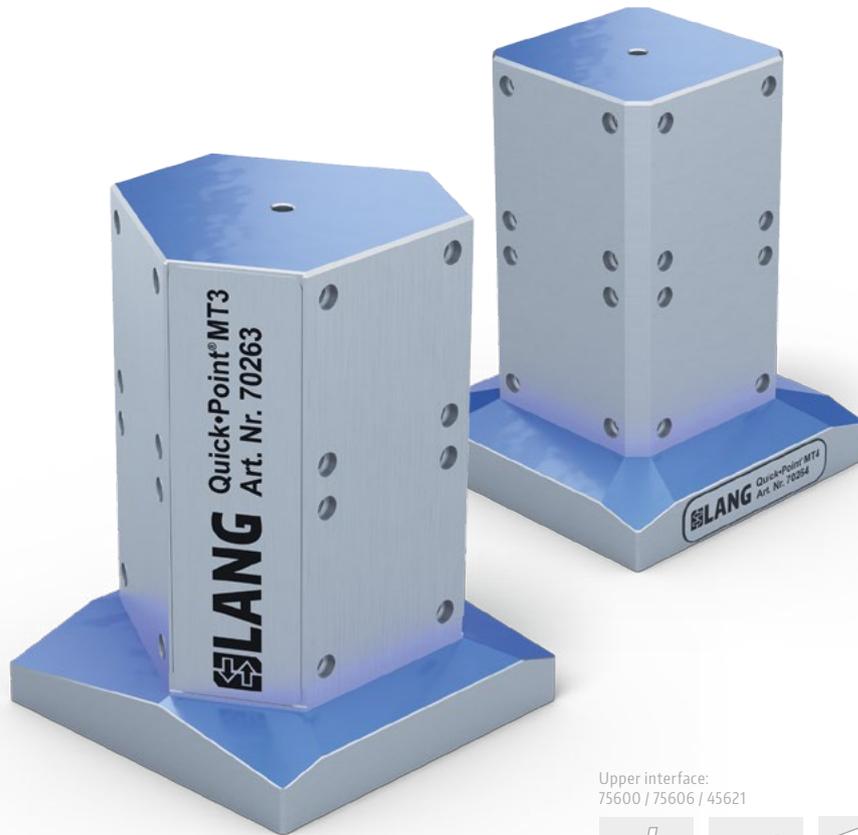
When clamped horizontally, 3 Makro-Grip® 77, 5-axis vises with a maximum length of 130 mm can be clamped in the Tri-Top.



When clamped vertically, a maximum vise length of 170 mm is possible. Shorter lengths and smaller sizes can, of course, also be used.

Quick·Point® MT3 / MT4 tombstones

Suitable plates:



Upper interface:
75600 / 75606 / 45621



30 Nm

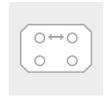


Ø 16 mm



46 Micro / 46 / 77

Lower interface:

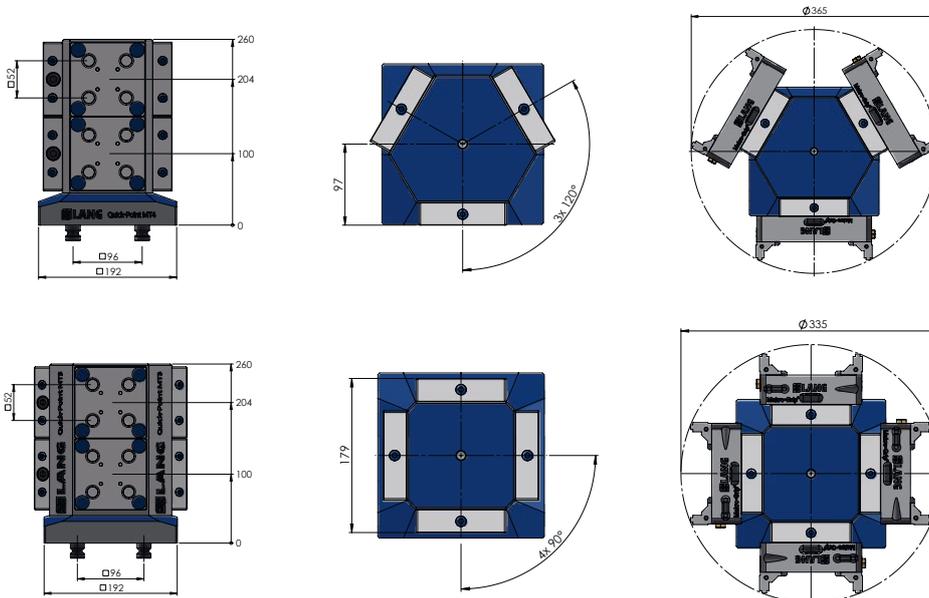


96

QUICK·POINT® 52, 3- / 4-FACE TOMBSTONE

ITEM NO.	DIMENSIONS	MAX. QTY OF GRID PLATES	WEIGHT
70263	192 × 192 × 260 mm	6 × 75600 or 6 × 75606 or 3 × 45621	43.7 kg
70264		8 × 75600 or 8 × 75606 or 4 × 45621	37.1 kg

Includes: 4 Quick·Point® 96 clamping studs Ø 20 mm (Item No. 45570).



The 3-face tombstone can clamp all vises with a jaw width of 46 and 77 mm when mounted horizontally.

The 4-face tombstone can clamp vises (jaw width 46 / 77) with a max. base length of 130 mm when mounted horizontally.



LANG

Quick-Tower
Art. Nr. 70650

LANG

1001
Quick-Point
Art. Nr. 85720

30Nm
40Nm
50Nm
60Nm

LANG

1042
Quick-Point
Art. Nr. 85720

30Nm
40Nm
50Nm
60Nm

Quick·Tower

tombstone for horizontal machining centers

The Quick·Tower tombstone is a flexible clamping solution due to its wide range of mounting options and high storage capacity, which helps to significantly increase the machine runtimes of horizontal machining centers. The Quick·Tower is quick and easy to set up thanks to the integrated clamping studs. A wide variety of zero point plates can be attached to its four side surfaces, allowing all LANG Technik vise sizes to be used in milling operations.

Primary area of application:

- **Horizontal machining centers**
- **Single part to batch production**
- **Single and multiple clamping**

Benefits:

- **Increased machine running times thanks to multiple clamping**
- **Enormous set-up time savings when loading and setting up the tombstone**
- **High storage capacity on a small space**



Quick·Tower

Clamping options:

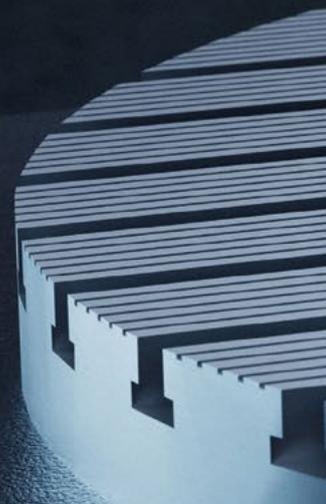
- direct clamping of workpieces
- LANG Technik vises
- customer-specific devices / fixtures
- vises from other manufacturers

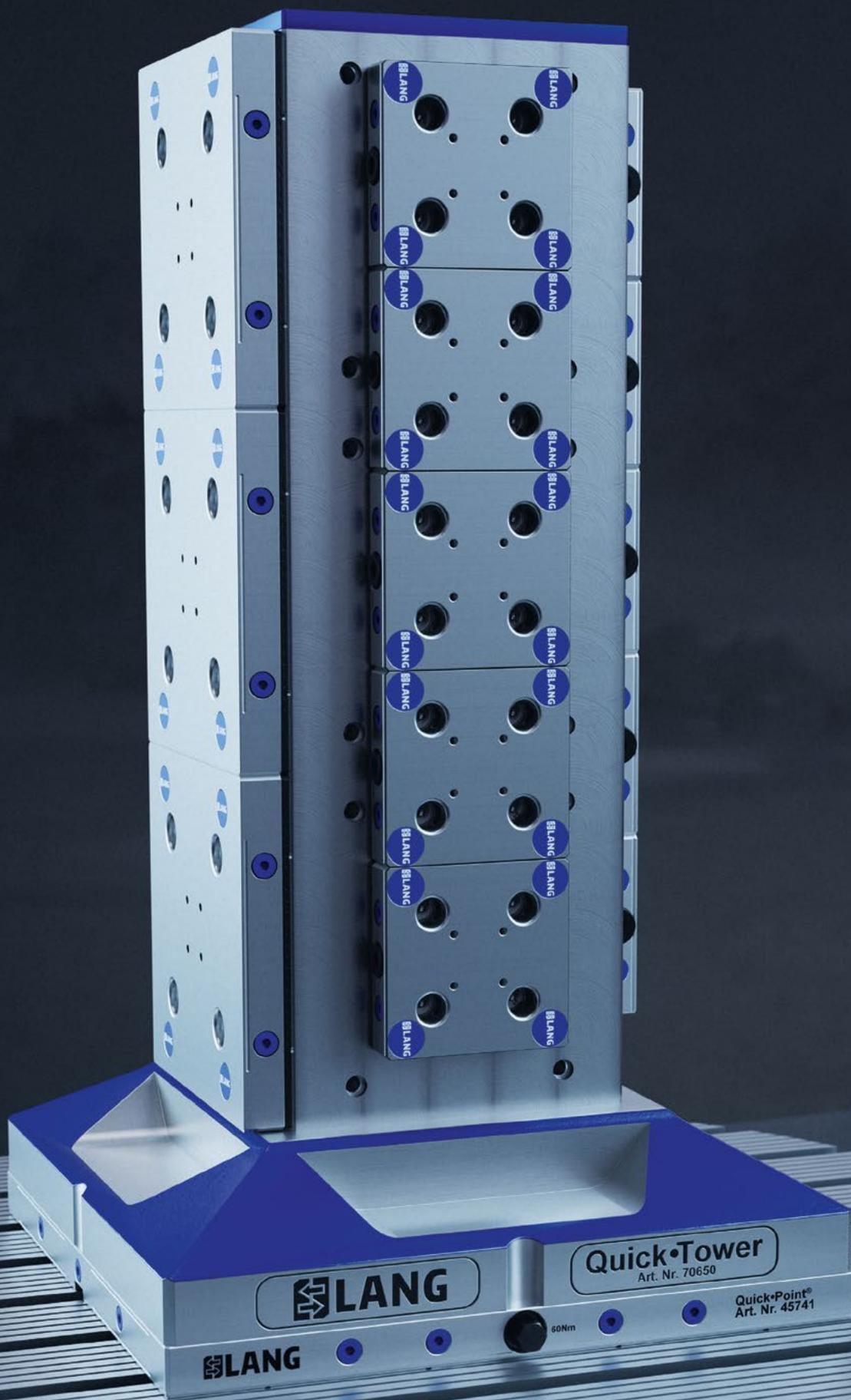
Tombstone:

- precision-milled cast base body with ± 0.02 mm plane parallelism
- four sides per tombstone
- two different heights: 668 mm / 860 mm
- suitable for different Quick·Point® grid plates
- up to 28 zero point plates can be mounted
- continuous, cross-plate zero point grid
- equipped as standard with 12 Quick·Point® 96 clamping studs
- including an eye bolt for transport

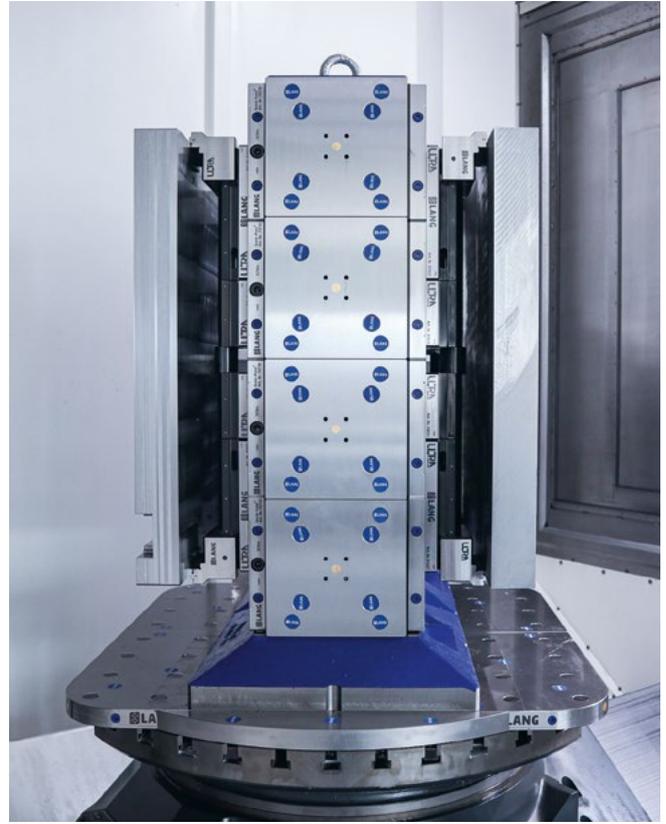
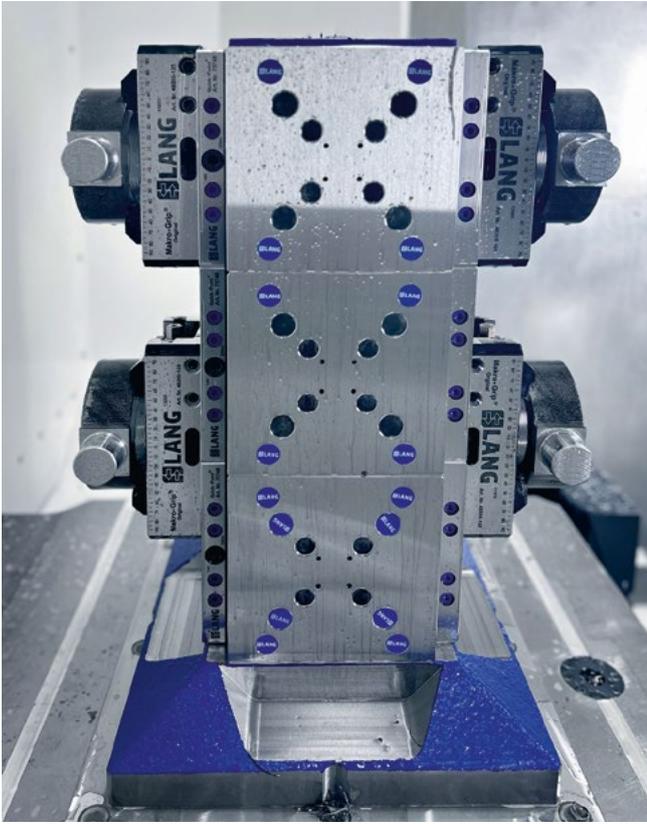
Mounting:

- can be attached to Quick·Point® 96 multi plates
- can be attached to Quick·Tower base plates
- can be mounted directly on the machine table / pallet using customized mounting holes in the base

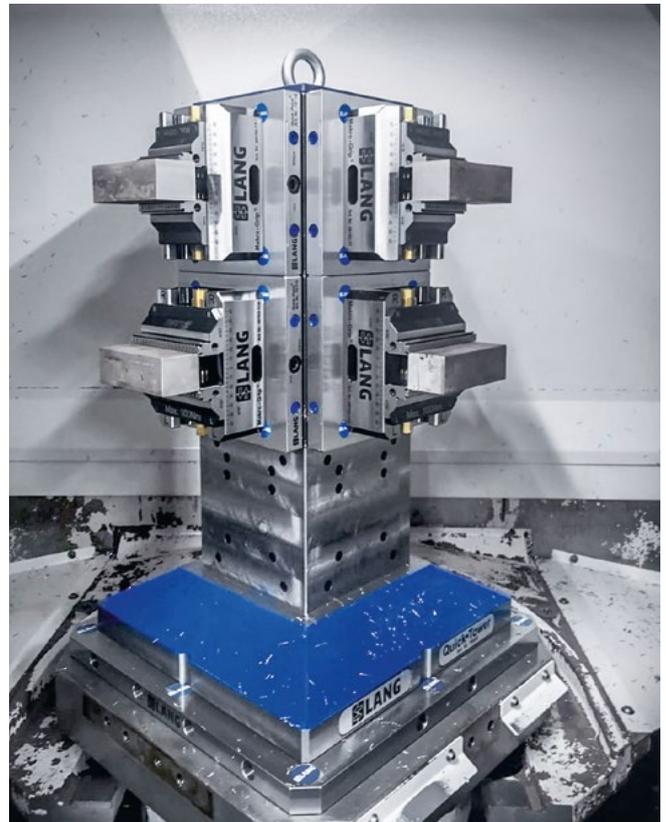
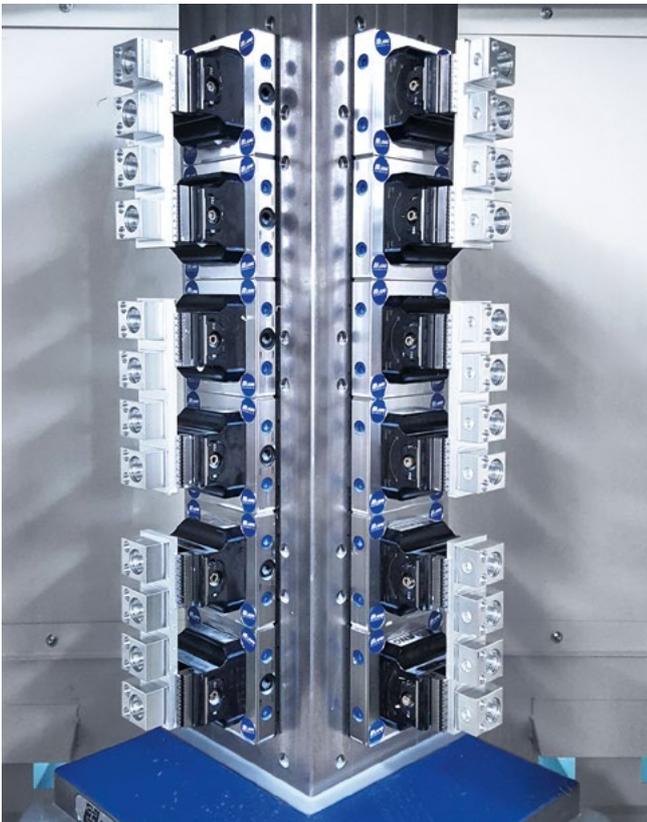




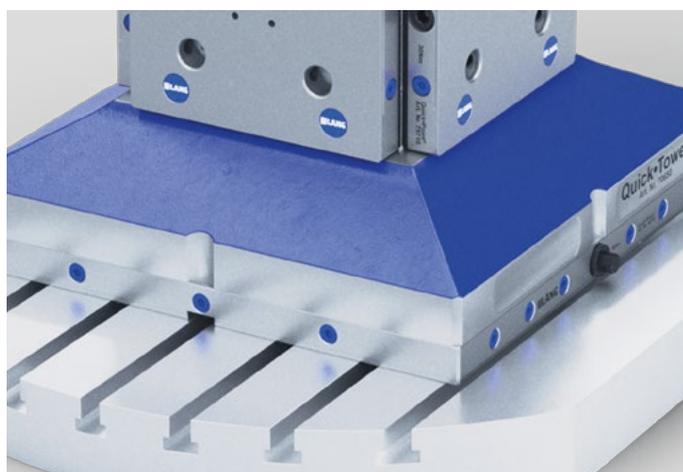
Applications



Heinrich Wagner Sinto Maschinenfabrik GmbH

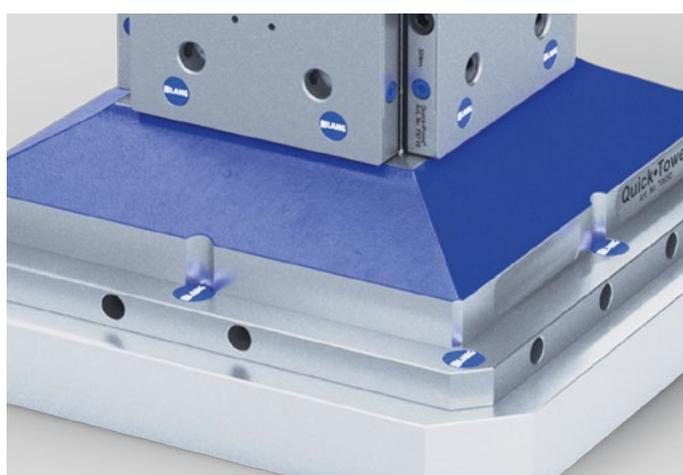


Mounting options on machine tables and pallets



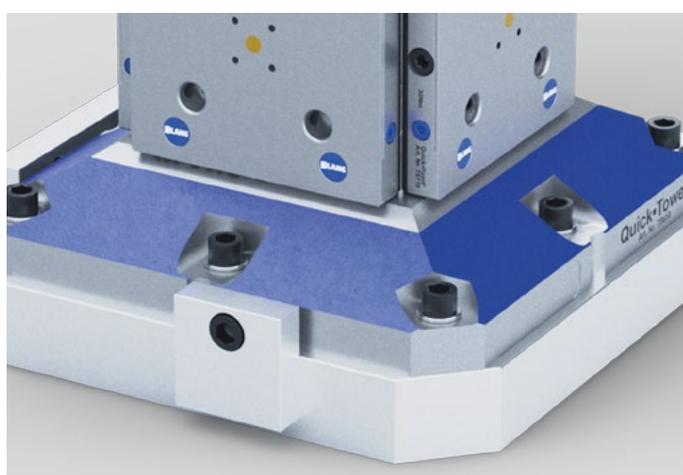
Quick-Point® 96 multi plate

One way to mount the Quick-Tower on a machine table is to use its 12 integrated clamping studs to clamp it in the Quick-Point® zero point clamping system. At least one 4-fold grid plate 96 is used as a base for this, although the machine table can also be equipped with a larger amount of zero point plates. The 4-fold grid plate 96 has identical dimensions to the Quick-Tower and thus represents a nice, flush solution. This combination is particularly suitable if a zero point clamping system is already available or if it is necessary to switch frequently and flexibly between different clamping fixtures.



Quick-Tower base plate

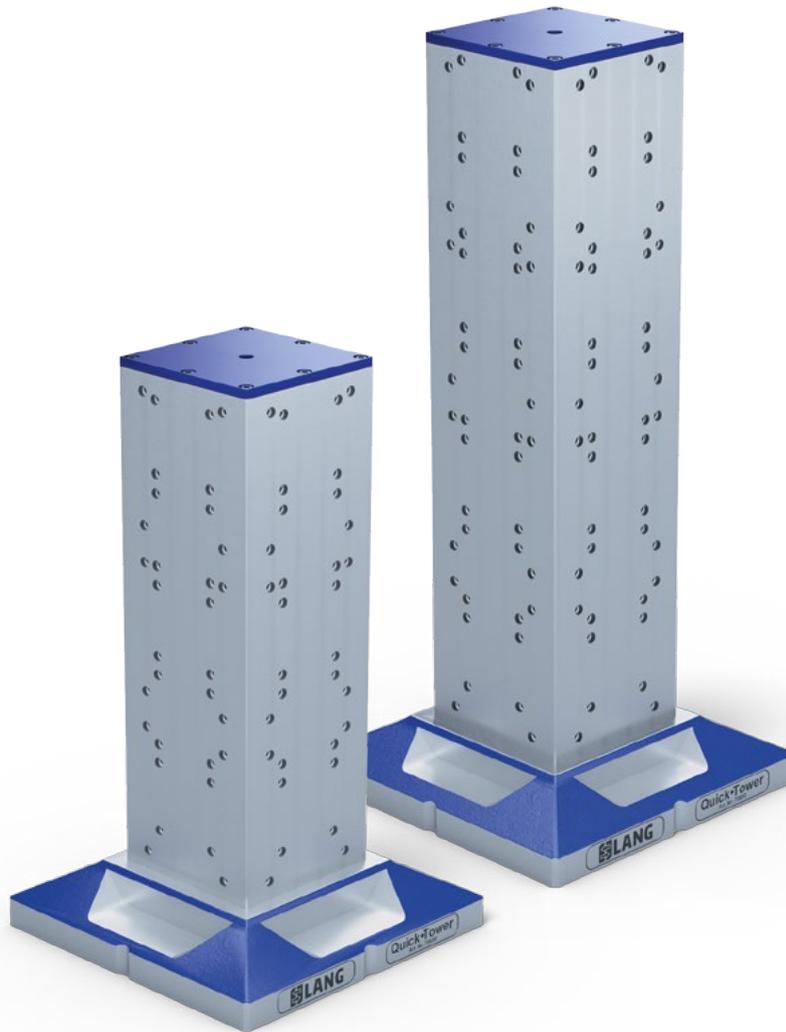
The second option is to mount the Quick-Tower in one of the two available Quick-Tower base plates. The base plates are not a zero point clamping system in the true sense of the word, although the tombstone is also held in place by the 12 integrated clamping studs. The Quick-Tower is fixed in place using M16 threaded pins on the side. Base plates are a cost-effective alternative to zero point clamping systems and are particularly useful when less emphasis is placed on the precision of a zero point clamping system and when dismantling is required less frequently.



Direct mounting on machine table/pallet

If the Quick-Tower is to be fixed permanently, we recommend direct mounting without the use of a zero point or base plate. On request, mounting holes can be made in the sloping base surfaces of the tombstone to match the slots of the machine table or the holes of a pallet. This service can be provided by LANG Technik. Prices are available upon request.

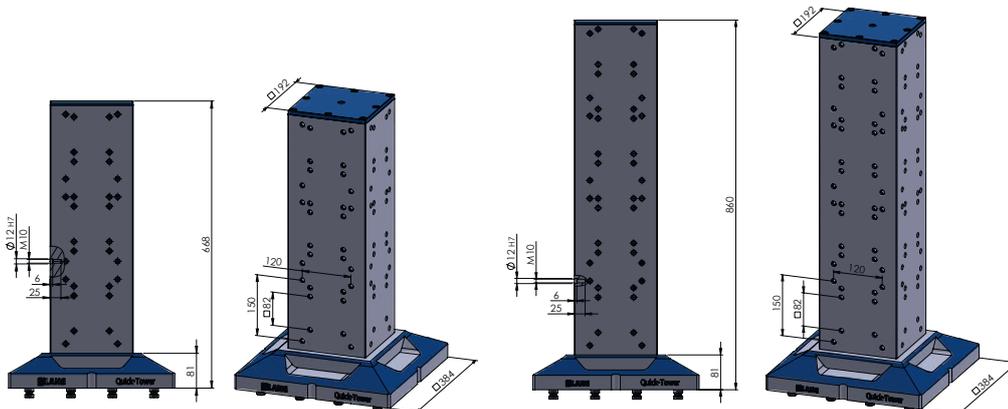
Quick-Tower tombstone



QUICK-TOWER TOMBSTONE

ITEM NO.	BODY DIMENSIONS	BASE DIMENSIONS	TOTAL HEIGHT	WEIGHT
70650	192 × 192 mm	384 × 384 mm	668 mm	164 kg
70850	192 × 192 mm	384 × 384 mm	860 mm	198 kg

If you prefer to fix the tombstone directly onto the machine table / pallet through customized mounting bores, please ask for an individual quotation.



The 82 × 82 mm bore spacing is designed to mount Quick-Point® plates 75600 or 75606.

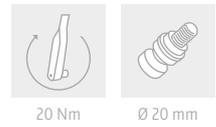
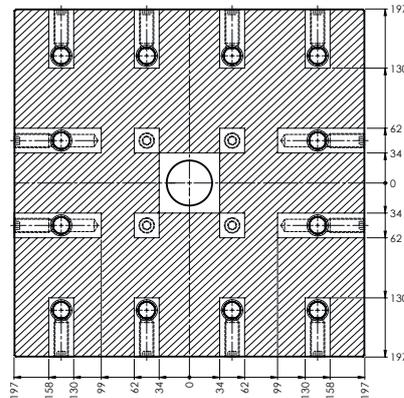
The 150 × 120 mm bore spacing is designed to mount Quick-Point® plates 75710 or 75748.

Quick·Tower base plates

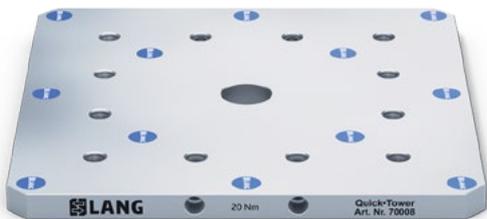
These base plates serve as a connecting element between the machine table and the Quick·Tower, if the tombstone is not clamped via a zero point plate or mounted directly on the machine table.



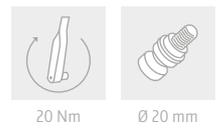
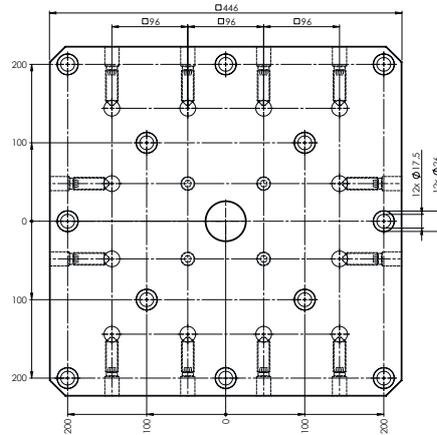
**QUICK·TOWER BASE PLATE,
THROUGH HOLE Ø 50H7, WITHOUT MOUNTING BORES**



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
70005	396 × 396 × 27 mm	-	31.4 kg
70006	Set mounting bores according to customer's request		



**QUICK·TOWER BASE PLATE,
THROUGH HOLE Ø 50H7, WITH MOUNTING BORES**



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
70008	446 × 446 × 27 mm	12 × M 16 in a 200 mm spacing	38.4 kg

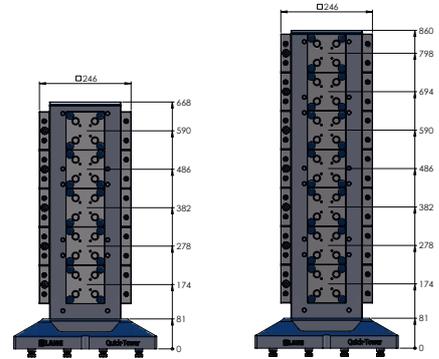


Mounting and alignment

- Concentric alignment via Ø 50H7 through hole
- Axial alignment by probing the outer edges of the base
- Mounting on the machine table using DIN ISO 4762 cylinder head screws
- The tightening torque of the M 16 lateral threaded pins is 20 Nm

Quick-Point® grid plates for Quick-Tower

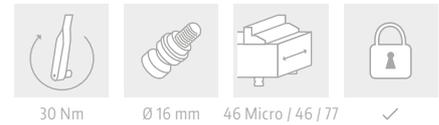
Included with all plates: 4 × M 10 × 35 screws,
2 × Ø 12 × 12 mm bushings (Item No. 45000-09).



Tombstone 70650:
max. 5 plates on each face

Tombstone 70850:
max. 7 plates on each face

QUICK-POINT® 52, GRID PLATE 104 × 104 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT	QTY
75600	104 × 104 × 27 mm	82 × 82 mm	1.8 kg	1 - 10
				11 - 25
				26 - 49
				from 50

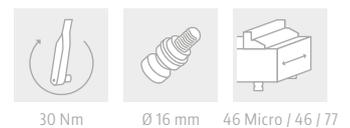


Tombstone 70650:
max. 5 plates on each face

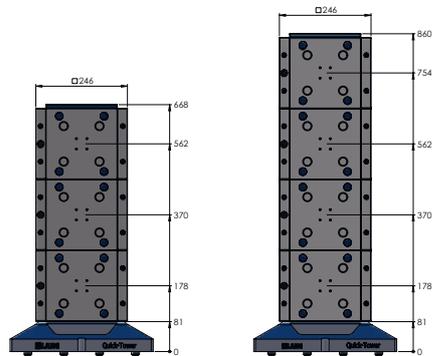
Tombstone 70850:
max. 7 plates on each face

NEW

QUICK-POINT® 52 DUO6, GRID PLATE 104 × 104 × 27 MM



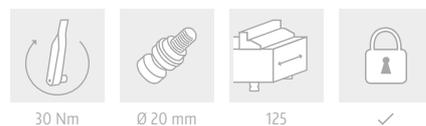
ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT	QTY
75606	104 × 104 × 27 mm	82 × 82 mm	1.8 kg	1 - 10
				11 - 25
				26 - 49
				from 50



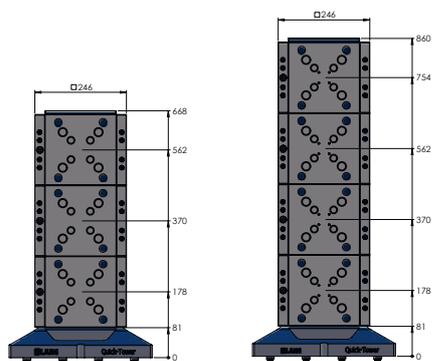
Tombstone 70650:
max. 3 plates on each face

Tombstone 70850
max. 4 plates on each face

QUICK-POINT® 96, GRID PLATE
192 × 192 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT	QTY
75710	192 × 192 × 27 mm	150 × 120 mm	7.2 kg	1 – 6
				7 – 11
				12 – 29
				from 30



Tombstone 70650:
max. 3 plates on each face

Tombstone 70850:
max. 4 plates on each face

QUICK-POINT® 52 / 96, COMBI GRID PLATE
192 × 192 × 27 MM



ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT	QTY
75748	192 × 192 × 27 mm	150 × 120 mm	6.6 kg	1 – 6
				7 – 11
				12 – 29
				from 30

Quick-Point® clamping studs

For individual adaptation of fixtures, workpieces or existing vises onto the Quick-Point® zero point clamping system.



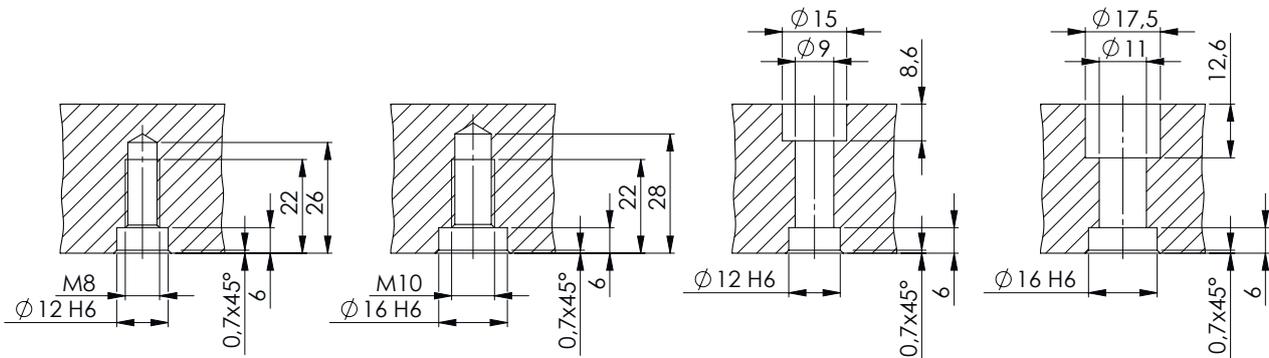
QUICK-POINT® CLAMPING STUDS FOR INDIVIDUAL ADAPTATION

ITEM NO.	DIAMETER	QTY
45270	Ø 16 mm for 52 mm spacing, incl. M 8 × 1.25 threaded pin	1 pc.
45570	Ø 20 mm for 96 mm spacing, incl. M 10 × 1.5 threaded pin	1 pc.

Up to 4 clamping studs can be clamped in a single plate, up to 8 clamping studs in a 2-fold plate and up to 16 clamping studs in a 4-fold plate.

Installation of clamping studs:

The holes for mounting Quick-Point® clamping studs must be placed at 52 or 96 mm ± 0.01 mm.



with threaded pins

with screws



52



96



52



96

Applications



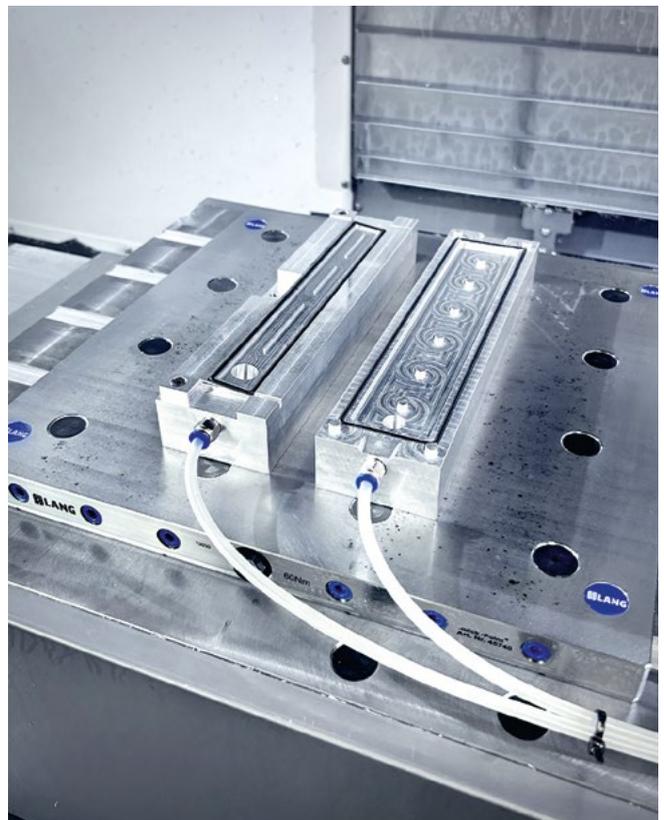
Not only highly precise, but also highly resilient. Four clamping studs are screwed directly into the workpiece, which weighs about 50 kg.



Direct clamping of a gearbox via four clamping studs with over 80% material removal.



Billet oil pan from the motor sports sector, clamped to a Quick-Point® multi plate by clamping studs for machining.



In the zero point clamping system, customer-specific devices, such as these two vacuum clamping devices, can also be set up precisely and in the least amount of time.

Quick-Point® spacer studs

Spacer studs allow for through holes in material which is clamped directly in the zero point system. It also improves accessibility when machining edges and angles.

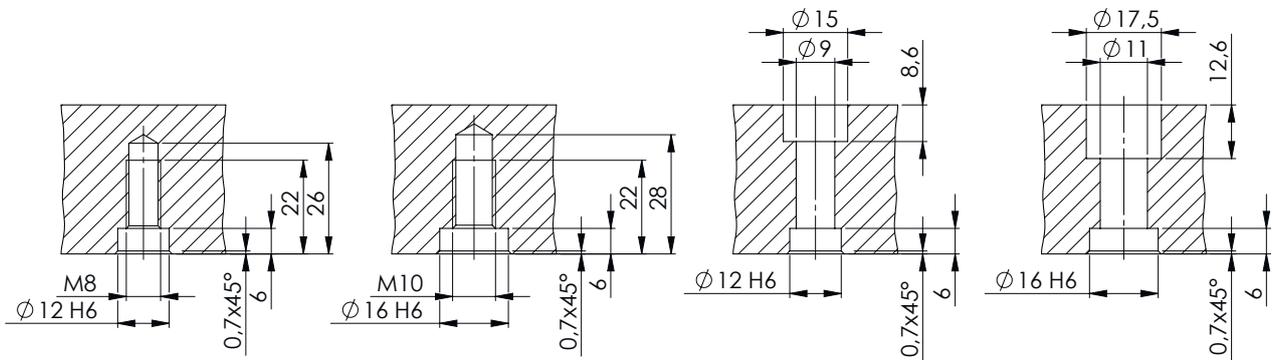


QUICK-POINT® SPACER STUDS

ITEM NO.	DIAMETER	SPACER HEIGHT	QTY
45270-10	Ø 16 mm for 52 mm spacing	10 mm (Ø 24 mm)	4 pcs.
45570-10	Ø 20 mm for 96 mm spacing	10 mm (Ø 28 mm)	4 pcs.

Installation of spacer studs:

The holes for mounting Quick-Point® spacer studs must be placed at 52 or 96 mm ± 0.01 mm.



with threaded pins

with screws



52



96



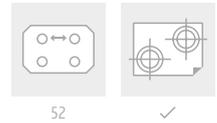
52



96

Quick-Point® support plates

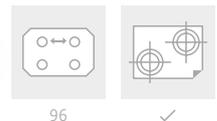
Support plates made of non-hardened steel – for individual adaptation of fixtures and other devices.



QUICK-POINT® 52, SUPPORT PLATE

ITEM NO.	DIMENSIONS	WEIGHT
45275	96 × 96 × 27 mm	2.0 kg
45277	156 × 156 × 27 mm	5.2 kg

Includes: 4 Quick-Point® 52 clamping studs Ø 16 mm (Item No. 45270).



QUICK-POINT® 96, SUPPORT PLATE

ITEM NO.	DIMENSIONS	WEIGHT
45575	156 × 156 × 27 mm	5.3 kg
45577	192 × 192 × 27 mm	7.9 kg

Includes: 4 Quick-Point® 96 clamping studs Ø 20 mm (Item No. 45570).

Quick-Point® Quick-Lock fastener

The mechanical quick release fastener allows various Quick-Point® products to be quickly and effortlessly clamped and released.



QUICK-POINT® QUICK-LOCK 52

ITEM NO.	SUITABLE FOR ITEM NO.	WEIGHT
44552	45150 / 45151 / 45156 / 45157 / 45160 / 45448 / 45486 / 45487 / 45600 / 45748 / 47220 / 75600 / 75748	0.6 kg
45252	45621	1.4 kg
45452	45640 / 45641	1.4 kg

Included in delivery: 1 × clamping lever and 4 × washers to adjust clamping force if needed.

QUICK-POINT® QUICK-LOCK 96

ITEM NO.	SUITABLE FOR ITEM NO.	WEIGHT
44596	45400 / 45401 / 45406 / 45407 / 45448 / 45486 / 45487 / 45710 / 45715 / 45716 / 45720 / 45748 / 45763 / 47548 / 75710 / 75748	0.6 kg
45296	45720	1.4 kg
45996	45962 / 45963 / 45964	1.6 kg

Included in delivery: 1 × clamping lever and 4 × washers to adjust clamping force if needed.

Easy assembly in a few steps

Within just a few seconds the Quick-Lock fastener is mounted to a Quick-Point® plate. With a 180° motion of the lever the Quick-Lock clamps and releases the vise.



Removal of the actuation screw:

Remove actuation screw and the two plastic covers and keep them safe. With multi fold plates you also have to remove the actuation bolt. During the whole installation process the Quick-Point® plate does not have to be removed from the machine table if already mounted.



Installation of the Quick-Lock fastener:

Insert the Quick-Lock pressure bolt into the actuation screw channel and tighten the two screws.



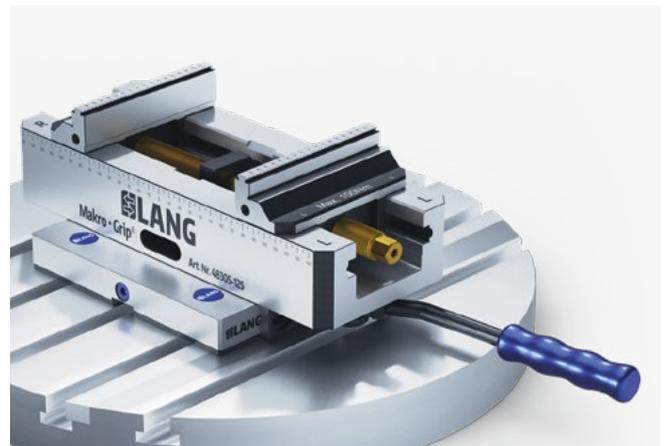
Checking the clamping force:

Insert the clamping lever into the clamping element of the Quick-Lock fastener. Move the clamping lever in a 180° motion from right to left until you feel resistance. If the remaining angle is more/less than 70°, the clamping force needs to be adjusted by adding/removing washers.

Quick-Lock utilization

The clamping lever equipped with a rotation lock can be used both horizontally and vertically.

For vises and fixtures protruding from the Quick-Point® plate, the lever is used horizontally.



Quick-Point® accessories



QUICK-POINT® COVER DISCS, PLASTIC

ITEM NO.	DIAMETER	UNIT
45008-15	Ø 15 mm	1 set (20 pcs.)
45008-20	Ø 20 mm	1 set (20 pcs.)
45008-27	Ø 27 mm	1 set (20 pcs.)

Heat-resistant, fibreglass reinforced cover discs for protecting the mounting screws against pollution.



QUICK-POINT® COVER PLUGS, PLASTIC

ITEM NO.	DIAMETER	UNIT
45052-20	Ø 16 mm for 52 mm spacing	1 set (4 pcs.)
45096-20	Ø 20 mm for 96 mm spacing	1 set (4 pcs.)

Cover plugs made of plastic for the protection of the clamping stud holes when not in use. For multi fold plates steel plugs (see below) are necessary.



QUICK-POINT® COVER PLUGS, STEEL

ITEM NO.	DIAMETER	UNIT
45052-30	Ø 16 mm for 52 mm spacing	1 set (4 pcs.)
45096-30	Ø 20 mm for 96 mm spacing	1 set (4 pcs.)

Cover plugs made of steel spread the increased clamping force of multi grid plates evenly and protect clamping holes not in use. They can be removed from plates with the cover plug remover.



QUICK-POINT® COVER PLUG REMOVER

ITEM NO.	DESCRIPTION
45000-30	Cover Plug Remover

Convenient grip with magnet for removing steel plugs from the Quick-Point® plates and / or threaded caps of the Makro-Grip® Ultra system.



QUICK-POINT® HANDLE, ALUMINIUM

ITEM NO.	FOR
66605	Quick-Point® 52
46081	Quick-Point® 96

This handle facilitates the handling of Quick-Point® devices when setting up and dismantling. As with usual LANG clamping devices, the handle is clamped with two Quick-Point® clamping studs in the zero point system and is thereby especially suited for the transportation of heavier Quick-Point® products.

Quick-Point® alignment accessories

SLOT KEYS, LOOSE, DIN 6323, FOR AXIAL ALIGNMENT OF QUICK-POINT® PLATES



ITEM NO.	SIZE	UNIT
452014	20 to 14 mm	1 pc.
452018	20 to 18 mm	1 pc.

To make the assembly and alignment of the Quick-Point® plates as easy as possible, we offer slot keys for the plates' 20H7 keyways matching your table's t-slots (14 or 18 mm).

Attention: Keys not suitable for Item No. 45800, 45480 and 45890!

SLOT KEYS FOR AXIAL ALIGNMENT OF QUICK-POINT® ROUND PLATE, ITEM NO. 45890 (PAGE 36)



ITEM NO.	DIMENSIONS	UNIT
452214	14 × 22 mm	1 pc.
452218	18 × 22 mm	1 pc.

For the alignment of Quick-Point® plate, Item No. 45890, which has 14 & 18 H7 grooves in the bottom, we offer these keys. Grooves and keys are equipped with a M6 thread, suitable for screws DIN 84 or DIN 912, M6 × 16.

CENTERING STUDS FOR CONCENTRIC ALIGNMENT OF QUICK-POINT® PLATES



ITEM NO.	SIZE	UNIT
451230	12 to 30 mm	1 pc.
451232	12 to 32 mm	1 pc.
451250	12 to 50 mm	1 pc.
452530	25 to 30 mm	1 pc.
452532	25 to 32 mm	1 pc.
452550	25 to 50 mm	1 pc.
455030	50 to 30 mm	1 pc.
455032	50 to 32 mm	1 pc.
455050	50 to 50 mm	1 pc.

For the concentric alignment of Quick-Point® plates via fitting bores in the bottom (12, 25, 50 mm) we offer centering studs for the most common machine table holes (30, 32, 50 mm).

BUSHINGS FOR THE ALIGNMENT OF VISES AND ZERO POINT PLATES

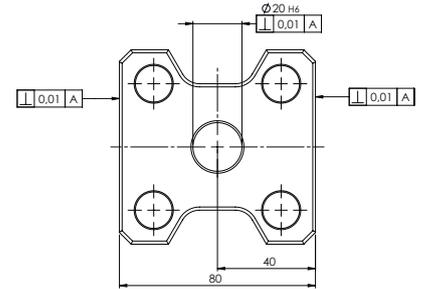
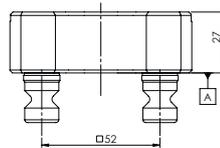


ITEM NO.	DIMENSIONS	FOR SCREW SIZE	UNIT
45000-09	Ø 12 × 12 mm	M 10	1 pc.
65191-04	Ø 12 × 12 mm	M 8	1 pc.
65191-05	Ø 16 × 15 mm	M 10	1 pc.

Item No. 45000-09 is suitable for aligning Quick-Point® plates on aluminium risers, Quick-Tower tombstones and other applications. Bushings 65191-04 and 65191-05 are used for the alignment and mounting of Makro-Grip® 5-axis vises on (old) LANG automation support pallets Item No. 65190 and 65197.

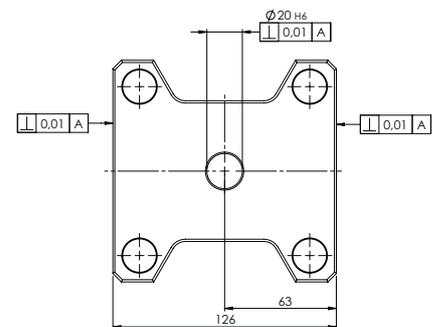
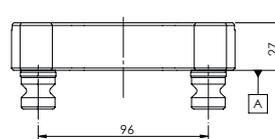
Quick-Point® gauging pallet

Jig-ground gauging pallet for a quick and precise alignment of Quick-Point® plates. Recommended especially for rotary tables or chucks.



QUICK-POINT® 52 GAUGING PALLET

ITEM NO.	DIMENSIONS	MEASURING LENGTH	WEIGHT
44522	80 × 80 × 27 mm	70 mm per side	1.2 kg



QUICK-POINT® 96 GAUGING PALLET

ITEM NO.	DIMENSIONS	MEASURING LENGTH	WEIGHT
44962	126 × 126 × 27 mm	116 mm per side	2.8 kg

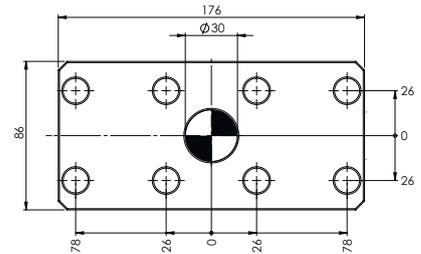
How it works:

After clamping the gauging pallet in a Quick-Point® plate, alignment is done by probing the jig-ground sides of the gauging pallet. For concentric alignment the inner diameter of the gauging pallet can be used.



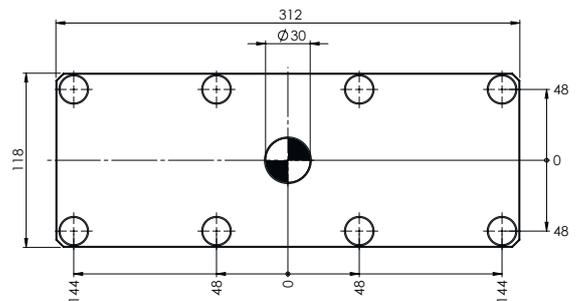
Quick·Point® alignment gauge

For easy and quick assembly of the Quick·Point® grid plates we recommend using the alignment gauge. The precise alignment and dimensional accuracy of the plates is guaranteed.



QUICK·POINT® 52 ALIGNMENT GAUGE FOR GRID PLATES

ITEM NO.	DESCRIPTION	WEIGHT
44521	Alignment gauge 52	2.8 kg
44521-10	Alignment gauge 52 for rent	-



QUICK·POINT® 96 ALIGNMENT GAUGE FOR GRID PLATES

ITEM NO.	DESCRIPTION	WEIGHT
44961	Alignment gauge 96	6.8 kg
44961-10	Alignment gauge 96 for rent	-

How it works:

The Quick·Point® alignment gauge guarantees an accurate alignment of two or more grid plates positioned next to each other. This ensures that vises and fixtures can be clamped across two different plates. After the first plate is placed on the table, aligned with a probe and the screws fixed, the alignment gauge is applied on the neighboring plates and the outer accessible fixing screws can be tightened.



Quick-Point® service

Set mounting bores

All of our Quick-Point® plates with prefabricated mounting bores are also available without such. The case-hardened zero point plates (57 HRC, 0.7 mm deep) can be drilled according to the t-slots of the machine table. We offer this as a service.

The drawings of the Quick-Point® plates without mounting

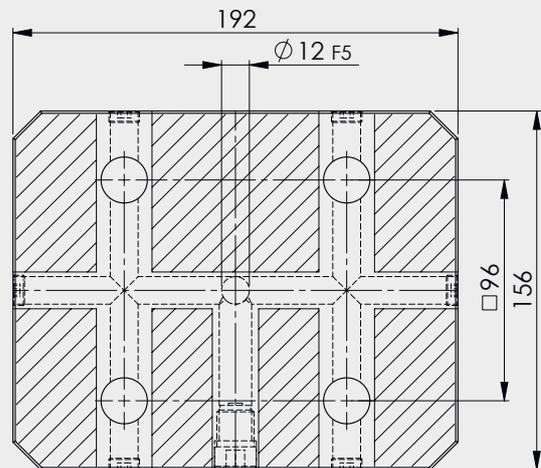
bores in this catalog show hatched areas. These areas can be used for mounting bores. On rare occasions mounting bores can even be set through rod channels. If this might be required for your application please ask your local LANG contact person. All drawings are available on our website www.lang-technik.de.



Quick-Point® plate with prefabricated mounting bores.



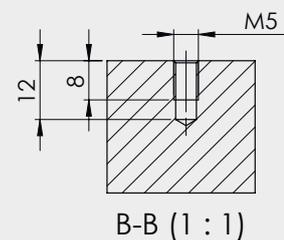
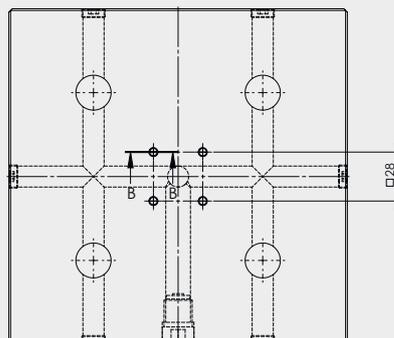
Same Quick-Point® plate without mounting bores. These can be installed by LANG or the customer.



M5 Index bores

Inserting a threaded pin or screw ensures that LANG clamping devices (with an equivalent recess on the bottom) are always positioned in the same way on the zero point plate. By default index

bores are included in following Quick-Point® products: Item No. 45150, 45400, 75600, 75710 and 47220.

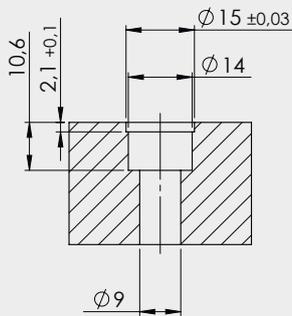


Covering mounting bores

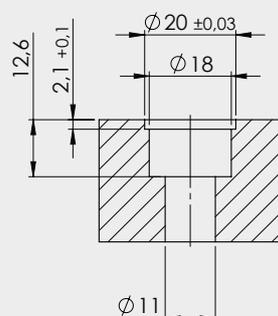


Quick-Point® plate with plastic cover discs.

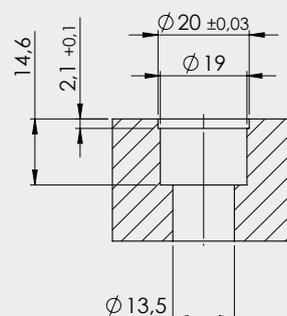
Mounting bores in Quick-Point® plates, either prefabricated or customized by LANG, have a 2.1 mm step. Plastic discs can be inserted and act as covers to prevent swarf or chips from clogging these bores. Plastic discs are available in three different diameters Ø 15 mm, Ø 20 mm and Ø 27 mm (see page 74).



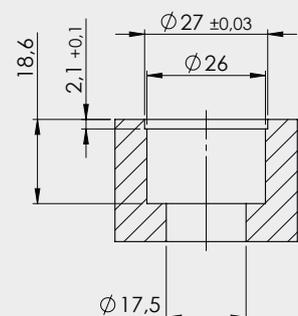
M8



M10



M12



M16

Custom corner radius for Quick-Point® grid / multi-fold plates

Upon request, we can adjust the zero point system (multi-fold or individual grid plates in a row) to round tables of the machine tool

by cutting off the corners. A neat solution that in most cases prevents the zero point plates from overhanging the table.



Individual Zerspanung Thiem

CUSTOM CORNER RADIUS FOR QUICK-POINT® GRID / MULTI-FOLD PLATES

ITEM NO.	QTY
45043-01	Cut off 1 corner
45043-02	Cut off 2 corners
45043-04	Cut off 4 corners



PATENT PENDING

Quick·Point® Rail

quick clamping system

The Quick·Point® Rail is an innovative quick clamping system based on expandable clamping bars that are attached directly to grooved machine tables or automation pallets – without an additional base plate or modification to the table or pallet. Zero point risers or vises can be flexibly positioned in series on the clamping bars. This allows clamping tasks to be solved individually and cost-effectively. The Quick·Point® Rail quick clamping system guarantees extremely fast set-up speed and flexibility.

Primary area of application:

- **Manual and automated machining processes**
- **3-axis / 5-axis tables, automation pallets, trunnions and tombstones**
- **Single and multiple clamping**

Benefits:

- **Enormous time savings during set-up – system installation within 2 minutes**
- **High cost saving potential due to the elimination of zero point base plates**
- **Versatile utilization of vises and risers thanks to flexible positioning**



Quick·Point® Rail

Clamping options:

- 5-axis combi risers, two different heights for clamping:
 - direct clamping of workpieces
 - LANG Technik vises
 - customer-specific devices / fixtures
 - vises from other manufacturers
- Quick·Point® Rail centering vise, two different lengths suitable for clamping jaw types:
 - Makro·Grip® (FS), Makro·4Grip, Avanti, Profilo, Vario·Tec

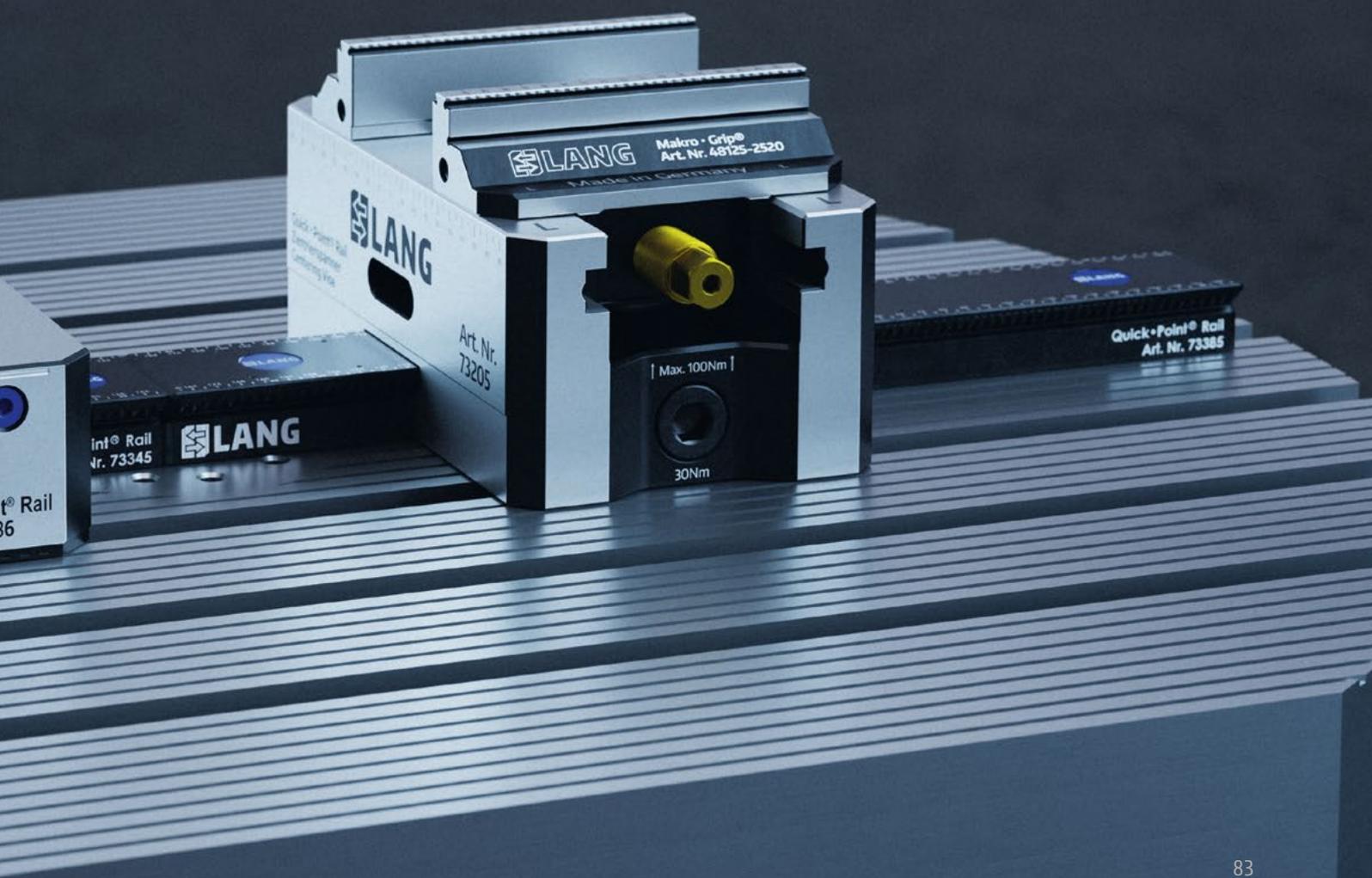
Clamping bar:

- made of hardened steel
- single-sided serration with 4 mm grid
- locking points at 96 mm intervals
- positioning accuracy < 0.005 mm
- flexibly expandable in x-axis direction using extension bars
- consistent 4 mm grid over several bars
- clamping devices are fixed by pull-down effect on the dovetail guide
- available with and without predefined mounting holes
- integrated alignment slots and keyways

Mounting:

- direct mounting in the grooves of a machine table
- direct mounting in the threaded holes of an automation pallet





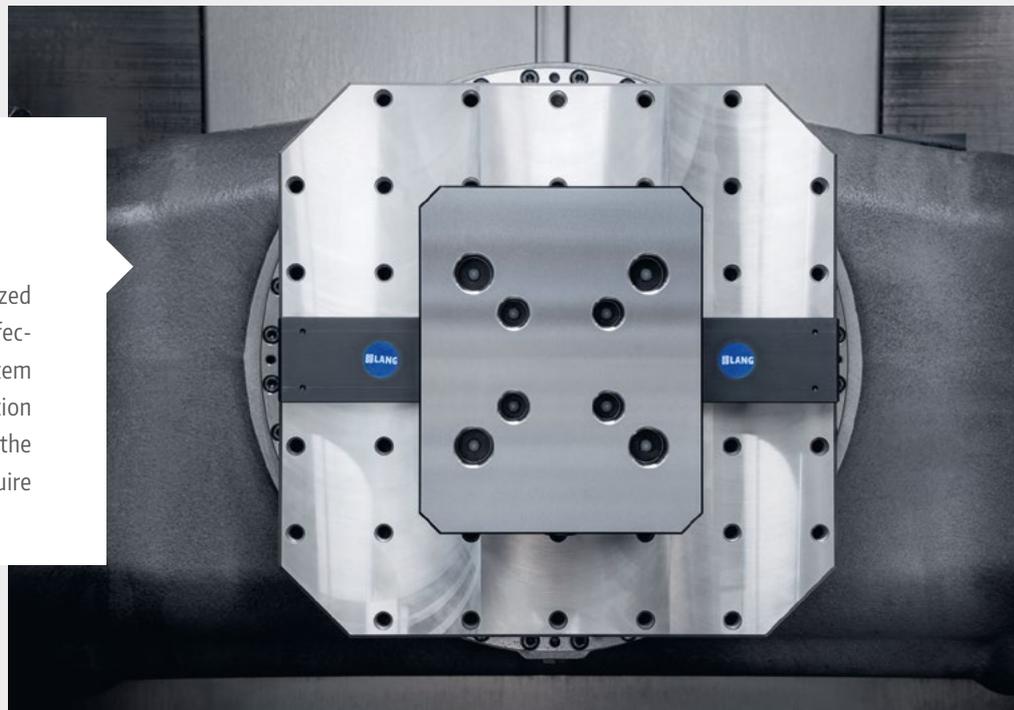


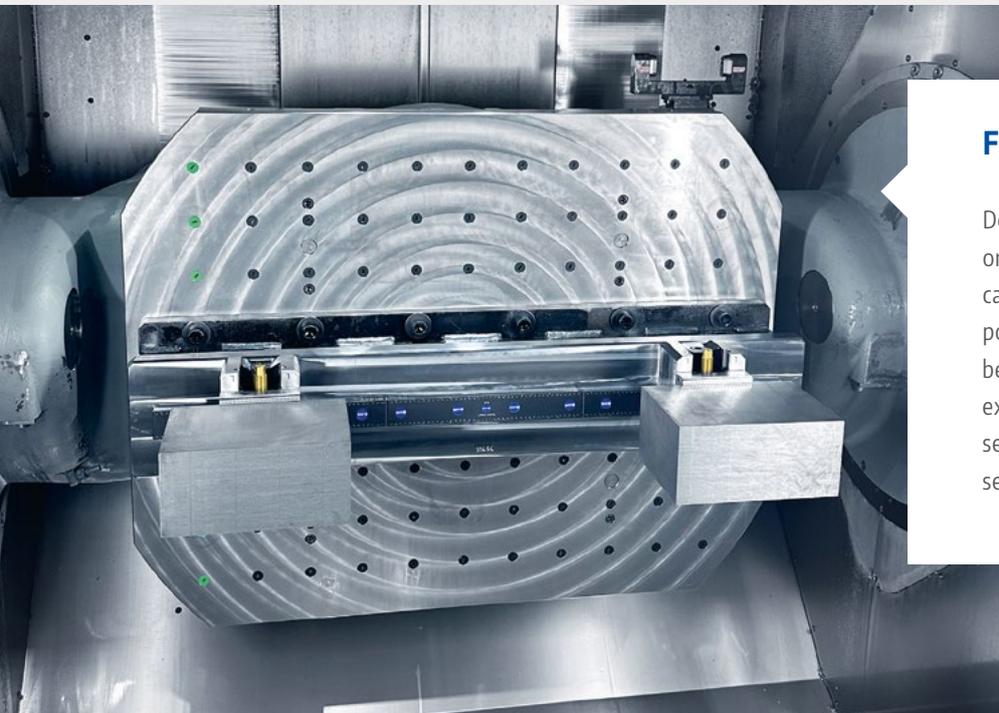
Ready in no time

Get started straight away without prior preparation. Quick-Point® Rail bars can be fitted within two minutes and removed again without leaving any residue. Clamping and extension bars are positioned in the grooves of a machine table or directly on automation pallets.

Cost-efficient and tailored to your needs

Quick-Point® Rail offers a customized solution for your needs. The cost-effectiveness of the quick clamping system is particularly evident on automation pallets and large machine tables, as the quick clamping system does not require zero point base plates.





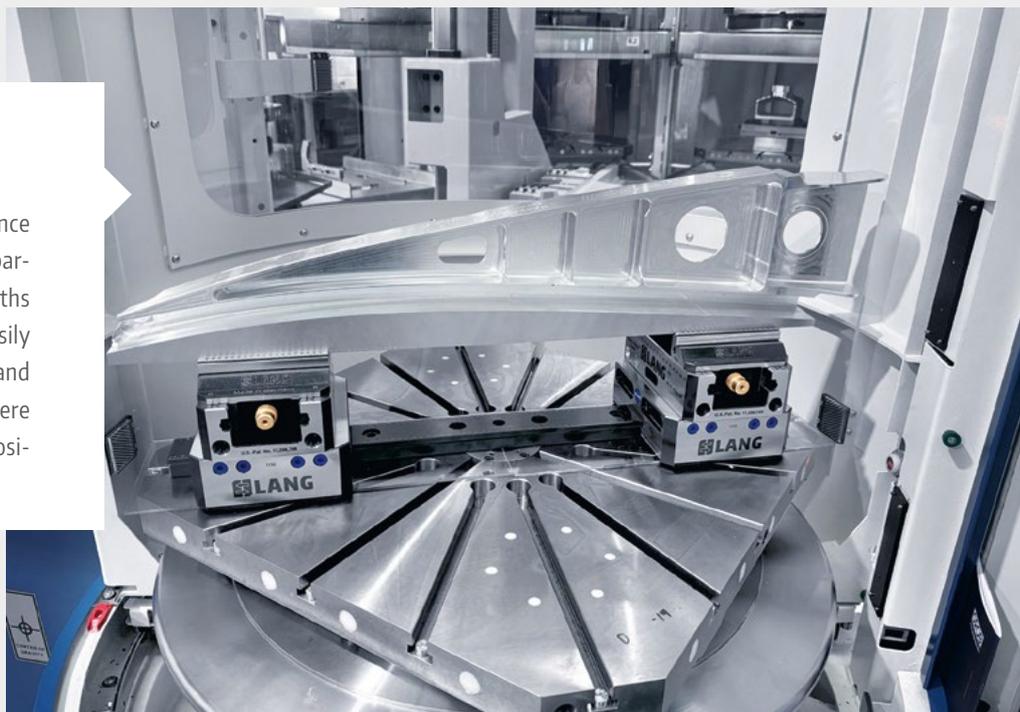
Delmet SA

Flexible expansion

Depending on the size of a machine table or the automation pallet, several bars can be connected together. The starting point is always a clamping bar, which can be supplemented on the left and right by extension bars. The 4 mm pitch of the serration remains consistent even across several connected bars.

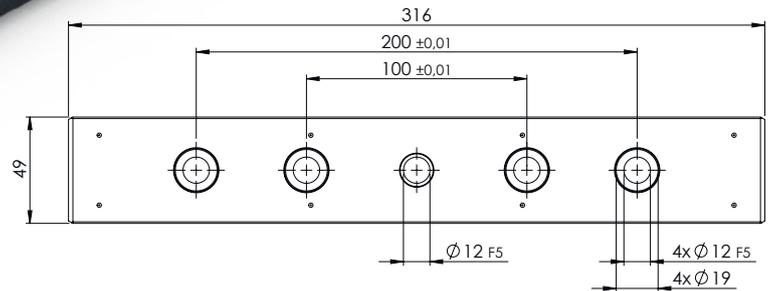
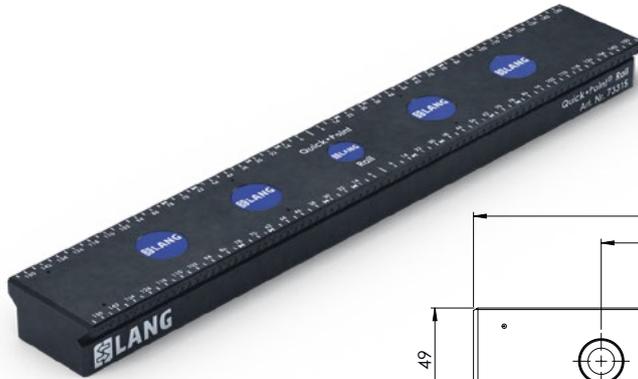
Freely moveable

The ability to flexibly adjust the distance between two clamping fixtures is particularly useful when component widths often vary: clamping devices can be easily moved along the serrated clamping and extension bars at 4 mm intervals. There is no better way to ensure optimum positioning.



Quick-Point® Rail clamping bars

NEW

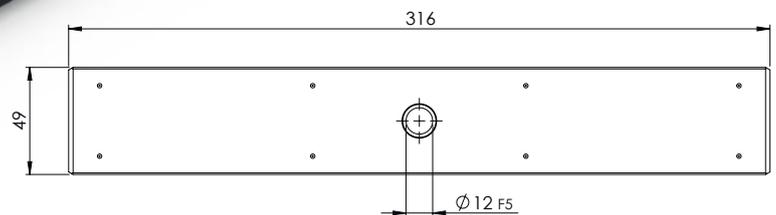


QUICK-POINT® RAIL, CLAMPING BAR WITH MOUNTING BORES

ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
73315	316 × 49 × 25 mm	4 × for M 10 / M 12 at 50 mm intervals	2.4 kg

This clamping bar is specially designed for the 320 mm pallet size. It can therefore only be used as a single clamping bar and cannot be extended.

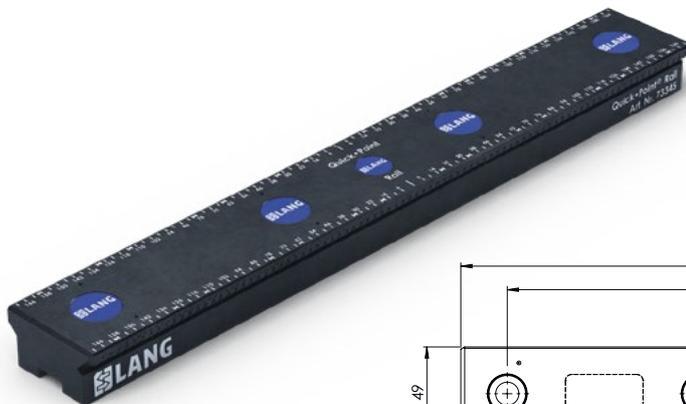
NEW



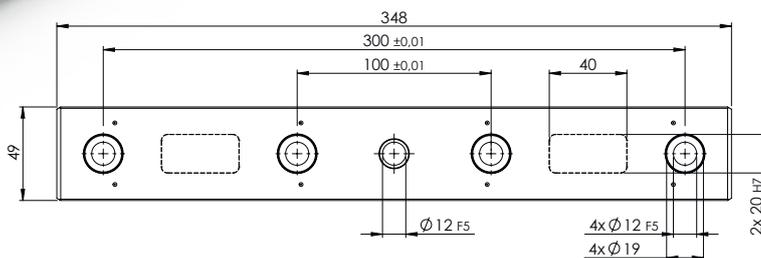
QUICK-POINT® RAIL, CLAMPING BAR WITHOUT MOUNTING BORES

ITEM NO.	DIMENSIONS	WEIGHT
73310	316 × 49 × 25 mm	2.6 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

This clamping bar is specially designed for the 320 mm pallet size. It can therefore only be used as a single clamping bar and cannot be extended.



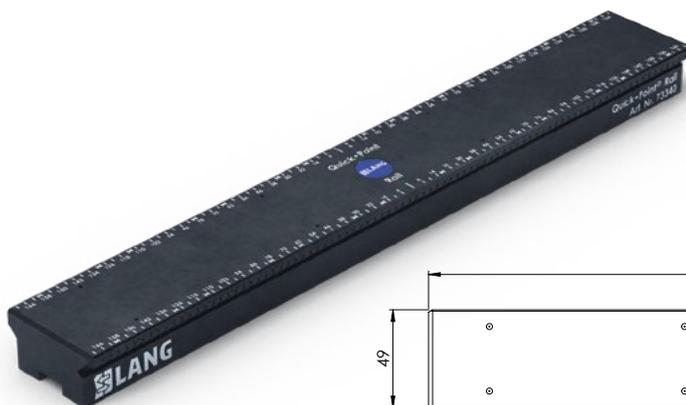
NEW



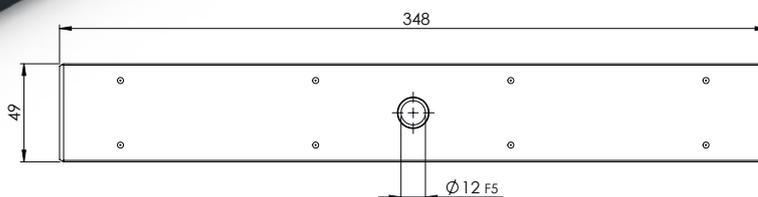
QUICK-POINT® RAIL, CLAMPING BAR WITH MOUNTING BORES

ITEM NO.	DIMENSIONS	MOUNTING BORES	KEYWAYS	WEIGHT
73345	348 × 49 × 25 mm	4 × for M 10 / M 12 at 100 mm intervals	2 × 20H7	2.7 kg

Note: This clamping bar can be extended.



NEW



QUICK-POINT® RAIL, CLAMPING BAR WITHOUT MOUNTING BORES

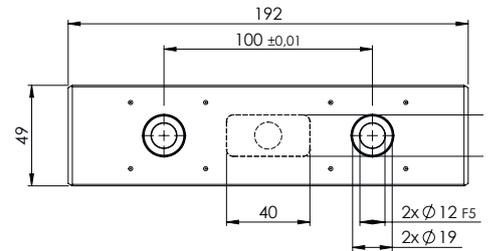
ITEM NO.	DIMENSIONS	WEIGHT
73340	348 × 49 × 25 mm	2.8 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

Note: This clamping bar can be extended.

Quick-Point® Rail extension bars



NEW



QUICK-POINT® RAIL, EXTENSION BAR WITH MOUNTING BORES

ITEM NO.	DIMENSIONS	MOUNTING BORES	WEIGHT
73195	192 × 49 × 25 mm	2 × for M 10 / M 12 at 100 mm intervals	1.5 kg

This extension bar is to be used exclusively as an addition to the clamping bars (Item No. 73340 / 73345) and can be extended to the left and right as often as required.



NEW



QUICK-POINT® RAIL, EXTENSION BAR WITHOUT MOUNTING BORES

ITEM NO.	DIMENSIONS	WEIGHT
73190	192 × 49 × 25 mm	1.6 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

This extension bar is to be used exclusively as an addition to the clamping bars (Item No. 73340 / 73345) and can be extended to the left and right as often as required.

QUICK-POINT® RAIL, CONNECTOR



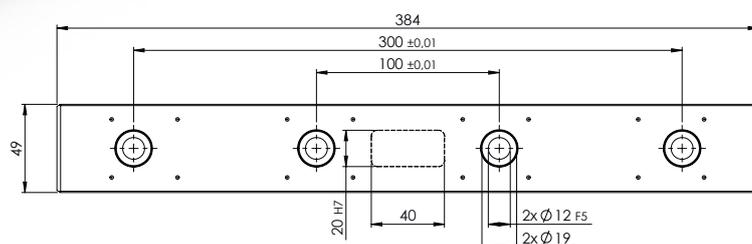
ITEM NO.	QTY
73701	1 pc.

Connectors are needed whenever clamping and extension bars are to be attached to one another.



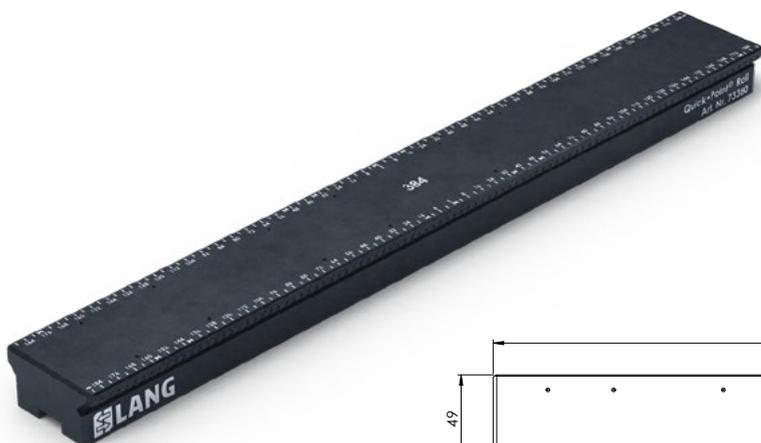
NEW

QUICK-POINT® RAIL, EXTENSION BAR WITH MOUNTING BORES



ITEM NO.	DIMENSIONS	MOUNTING BORES	KEYWAYS	WEIGHT
73385	384 × 49 × 25 mm	4 × for M 10 / M 12 at 100 mm intervals	1 × 20H7	2.9 kg

This extension bar is to be used exclusively as an addition to the clamping bars (Item No. 73340 / 73345) and can be extended to the left and right as often as required.



NEW

QUICK-POINT® RAIL, EXTENSION BAR WITHOUT MOUNTING BORES



ITEM NO.	DIMENSIONS	WEIGHT
73380	384 × 49 × 25 mm	3.1 kg
45004	Set mounting bores according to customer's request	
45002	Set keyways according to customer's request	

This extension bar is to be used exclusively as an addition to the clamping bars (Item No. 73340 / 73345) and can be extended to the left and right as often as required.

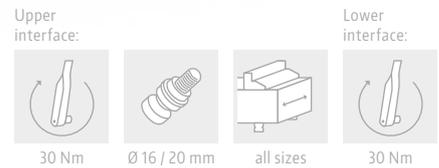
Quick-Point® Rail

5-axis combi risers



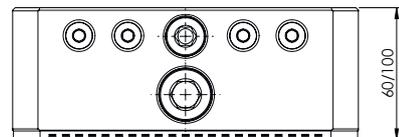
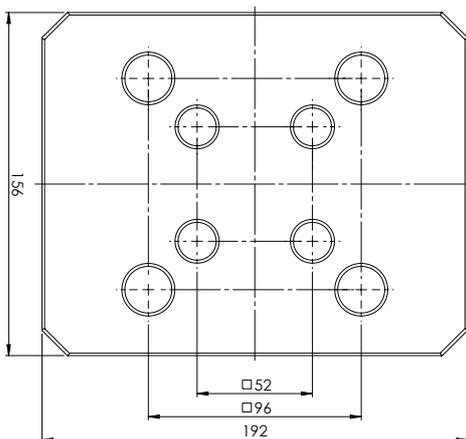
NEW

QUICK-POINT® RAIL, 5-AXIS COMBI RISER



ITEM NO.	DIMENSIONS	WEIGHT
73486	192 × 156 × 60 mm	10.3 kg
73487	192 × 156 × 100 mm	18.3 kg

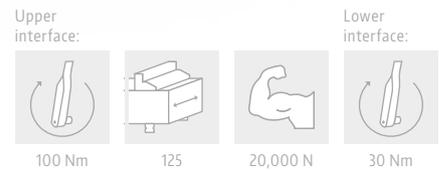
Optional: Mounting of 4 × Quick-Point® clamping studs Ø 20 mm (Item No. 45570) for mounting in the Quick-Point® 96 system (not included!).



Quick-Point® Rail centering vises



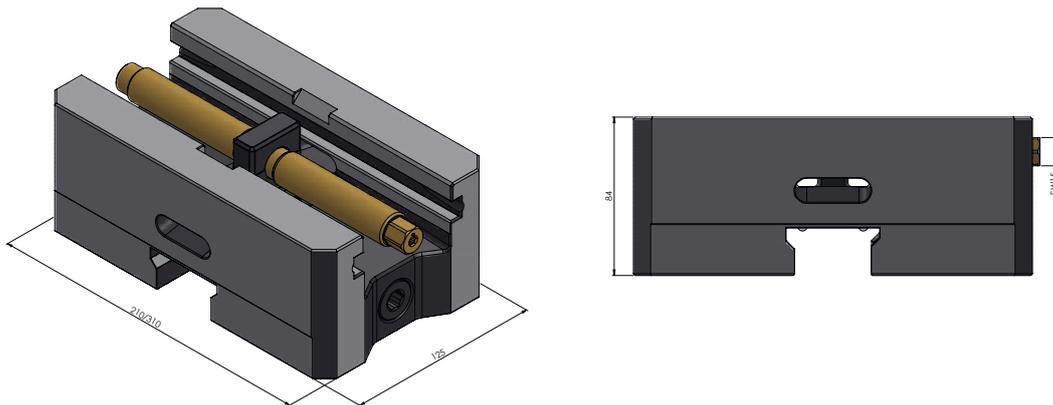
NEW



QUICK-POINT® RAIL CENTERING VISE

ITEM NO.	BASE BODY WIDTH	BASE BODY LENGTH	WEIGHT
73205	125 mm	210 mm	11.7 kg
73305	125 mm	310 mm	18.2 kg

Optional: Mounting of 4 × Quick-Point® clamping studs Ø 20 mm (Item No. 45570) for mounting in the Quick-Point® 96 system (not included!).



The following jaw variants are suitable and must be ordered in addition to the base body:



Makro-Grip®
48125-2520



Makro-Grip® FS
48125-2520 FS



Makro-Grip®
non-serrated
48125-2522



Makro-4Grip
52515-20
52530-20



Avanti
44251-125



Profilo
49125-125



Vario-Tec
42018-125