

Zeropoint Quickclamping cylinders „Gonzales” and “Unitool”

Our Solution for interfaces

Zeropoint Quickclamping cylinders “Gonzales” from Hemo Zero Point Systems AG:

- Build-in and build-up Zeropoint Quickclamping cylinder „Gonzales” (pages 33 to 35)
- Clamping nipple „Gonzales” (pages 56 to 57)



Your advantages at a glance:

- Zeropoint Quickclamping cylinder in stainless steel
- Safety system by Leakage
- Great locking force
- Big holding force
- Key holding
- Three points principle, thus optimal power transmission
- Fluid connection
- Free movement of balls, system **without ball cage**, thus low wear and tear

Zeropoint Quickclamping cylinders “Unitool” from Hemo Zero Point Systems AG:

- Build-in and build-up Zeropoint Quickclamping cylinder „Unitool” (pages 36 to 38)
- Clamping nipple „Gonzales” (page 58)



Your advantages at a glance:

- Zeropoint Quickclamping cylinder in stainless steel
- Safety system by Leakage
- Great locking force
- Big holding force
- Key holding
- Three points principle, thus optimal power transmission
- Fluid connection
- Free movement of balls, system **without ball cage**, thus low wear and tear
- **Large ball diameter**

Clamping cylinder „Gonzales“

Stainless

Build-in Zeropoint Quickclamping cylinder „Gonzales“ 2000, round

Assembling diameter Ø 110 mm
Global diameter Ø 140 mm
Pull in force 25 kN (hyd.)
Holding force 55 kN

Page 34



Build-in Zeropoint Quickclamping cylinder „Gonzales“ 1000, round

Assembling diameter Ø 80 mm
Global diameter Ø 112 mm
Pull in force 15 kN (hyd.)
Holding force 25 kN

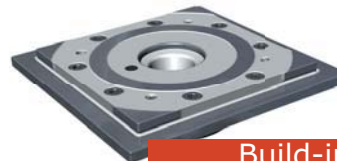
Page 34



Build-in Zeropoint Quickclamping cylinder „Gonzales“ 1000, round

Assembling diameter Ø 80 mm
Global diameter Ø 112 mm
Pull in force 15 kN (hyd.)
Holding force 25 kN

Page 34



Build-in Zeropoint Quickclamping cylinder „Gonzales“ 2000, square

Assembling diameter Ø 110 mm
Global size: 150 x 150 mm
Pull in force 25 kN (hyd.)
Holding force 55 kN

Page 34

Build-in Zeropoint Quickclamping cylinder „Gonzales“ 1000, square

Assembling diameter Ø 80 mm
Global size: 120 x 120 mm
Pull in force 15 kN (hyd.)
Holding force 25 kN

Page 34

Build-up Zeropoint Quickclamping cylinder „Gonzales“ 2000, round

Global diameter Ø 140 mm
Pull in force 25 kN (hyd.)
Holding force 55 kN

Page 35



Build-up Zeropoint Quickclamping cylinder „Gonzales“ 2000, square

Global size: 150 x 150 mm
Pull in force 25 kN (hyd.)
Holding force 55 kN

Page 35



Build-up Zeropoint Quickclamping cylinder „Gonzales“ 1000, round

Global diameter Ø 112 mm
Pull in force 15 kN (hyd.)
Holding force 25 kN

Page 35



Build-up Zeropoint Quickclamping cylinder „Gonzales“ 1000, square

Global size: 120 x 120 mm
Pull in force 15 kN (hyd.)
Holding force 25 kN

Page 35

Clamping cylinder „Gonzales“

Build-in Zeropoint Quickclamping cylinder „Gonzales“ 1000, 2000, round

Hydraulic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370EGRH



Order no.	Size	Pull-in force up to [kN]	Holding force [kN]	S	DL	Weight [g]
305201	1000	15	25	X	-	2300
306043	1000	15	25	-	X	2300
305219	2000	25	55	X	-	3500

Use:

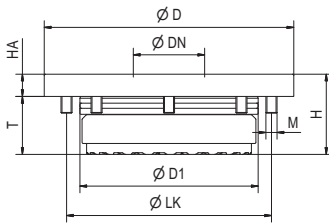
For installation in base plates, machine tables, clamping profiles, columns and towers, swivel bridges, machine pallets and clamping pallets.

Note:

Hydraulic pressure is only needed for unclamping (50 bar). The installation Zeropoint Quickclamping cylinder is mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage.

On request:

- Installation diagrams on request
- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications



Dimensions:

Order no.	Size	ØD	ØDN	ØD1	H	HA	ØLK	M	T
305201	1000	112	32	80	36	10	92	8 x M5	26
306043	1000	112	32	80	36	10	91	10 x M5	26
305219	2000	140	47	110	36	10	122	8 x M5	26

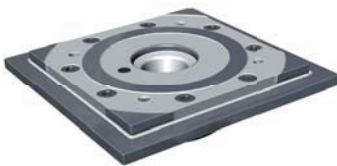
Build-in Zeropoint Quickclamping cylinder „Gonzales“ 1000, 2000, square

Hydraulic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370EGQH



Order no.	Size	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
305227	1000	15	25	2300
305235	2000	25	55	3500

Use:

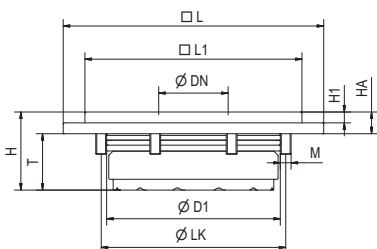
Can be used as a single clamping point or combined with round installation Zeropoint Quickclamping cylinders in base plates, machine tables, clamping profiles, columns and towers, swivel bridges, machine pallets and clamping pallets. A square Zeropoint Quickclamping cylinder prevents the pallet from twisting. The indexing function enables positioning every 90°. Especially suitable for use in turning.

Note:

Hydraulic pressure is only needed for unclamping (50 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. Square pallet for screwing onto the pallet see item no. 6370ZA.

On request:

- Installation diagrams on request
- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications



Dimensions:

Order no.	Size	ØDN	ØD1	H	HA	H1	□L	□L1	ØLK	M	T
305227	1000	32	80	36	10	5	120	100	92	M5	26
305235	2000	47	110	36	10	5	150	130	122	M5	26

Clamping cylinder „Gonzales“

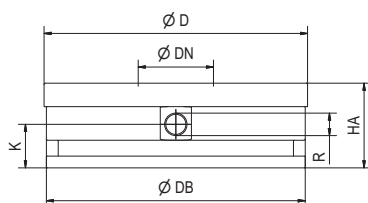
Build-up Zeropoint Quickclamping cylinder „Gonzales“ 1000, 2000, round

Hydraulic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370AGRH



Order no.	Size	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
303362	1000	15	25	2300
303388	2000	25	55	3500

Use:

For mounting on machine tables, clamping profiles, columns and towers, measuring machines, assembly stations in connection with clamping flange no. 6370ZB.

Note:

Hydraulic pressure is only needed for unclamping (50 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The hydraulic version has 1 connection for clamping / unclamping (G1/4 or G1/8).

On request:

- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications
- **Can also be supplied with centering pins for quicker and more precise installation**

Dimensions:

Order no.	Size	ØD	ØDB	ØDN	HA	K	R
303362	1000	112	110	32	36	18,5	G1/8
303388	2000	140	139	47	36	18,5	G1/8

Build-up Zeropoint Quickclamping cylinder „Gonzales“ 1000, 2000, square

Hydraulic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370AGQH



Order no.	Size	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
305649	1000	15	25	2300
305656	2000	25	55	3500

Use:

Can be used as a single clamping point or combined with round surface-mounted Zeropoint Quickclamping cylinders in machine tables, clamping profiles, columns and towers, measuring machines, assembly stations in connection with clamping flanges no. 6370ZB. Clamping flange size 20 with Gonzales 1000 and with Gonzales 2000 integrated onto the housing.

Note:

Hydraulic pressure is only needed for unclamping (50 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The hydraulic version has 1 connection for clamping / unclamping (G1/4 or G1/8). Square pallet for screwing onto the pallet see item no. 6370ZA.

On request:

- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications
- **Can also be supplied with centering pins for quicker and more precise installation**

Dimensions:

Order no.	Size	ØDB	ØDN	HA	H1	K	□L	□L1	R
305649	1000	110	32	36	5	18,5	120	100	G1/8
305656	2000	139	47	36	5	18,5	150	130	G1/8

Accessories „Gonzales“

- Clamping nipple „Gonzales 1000“



Page 59

- Clamping nipple „Gonzales 1000“ with high collar



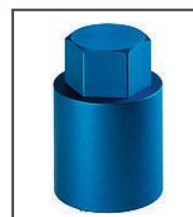
Page 59

- Clamping nipple „Gonzales 2000“



Page 60

- Nipple key „Gonzales 1000“



Page 60

Clamping cylinder „Unitool“

Stainless

Build-in Zeropoint Quickclamping cylinder „Unitool“, round

Assembling diameter \varnothing 102 mm
Pull in force 30 kN (pneu.)
Holding force 55 kN

Page 37



Build-in Zeropoint Quickclamping cylinder „Unitool“, square

Global size: 150 x 150 mm
Assembling diameter \varnothing 102 mm
Pull in force 30 kN (pneu.)
Holding force 55 kN

Page 37



Build-up Zeropoint Quickclamping cylinder „Unitool“, round

Global diameter \varnothing 148 mm
Pull in force 30 kN (pneu.)
Holding force 55 kN

Page 38



Build-up Zeropoint Quickclamping cylinder „Unitool“, square

Global size: 150 x 150 mm
Pull in force 30 kN (pneu.)
Holding force 55 kN

Page 38

Clamping cylinder „Unitool“

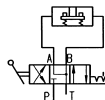
Build-in Zeropoint Quickclamping cylinder „Unitool“, round

Pneumatic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370EURL



Order no.	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
303560	30	55	3200

Use:

For installation in base plates, machine tables, clamping profiles, columns and towers, swivel bridges, machine pallets and clamping pallets.

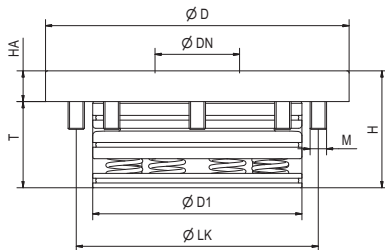
Note:

Installation Zeropoint Quickclamping cylinder with a low installation height of 19 mm and an installation diameter of 46 mm (M46x1.5). Pneumatic pressure is only needed for unclamping (min. 6 bar / max. 12 bar). The installation Zeropoint Quickclamping cylinder is mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The pneumatic design has 2 connections: 1 x clamping / unclamping, 1 x turbo connection.

The turbo connection is pressurised only briefly with 6 bar after the clamping process, thus achieving the specified pull-in forces.

Installation diagrams:

- Installation diagrams on request
- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications



Dimensions:

Order no.	ØD	ØDN	ØD1	H	HA	ØLK	M	T
303560	148	40	102	57	15	118	M8	42

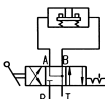
Build-in Zeropoint Quickclamping cylinder „Unitool“, square

Pneumatic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370EUQL



Order no.	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
305623	30	55	3350

Use:

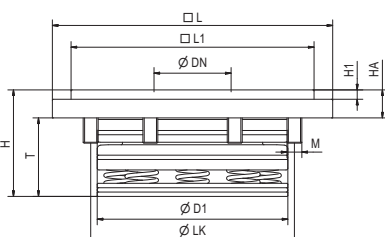
Can be used as a single clamping point or combined with round installation Zeropoint Quickclamping cylinders in base plates, machine tables, clamping profiles, columns and towers, swivel bridges, machine pallets and clamping pallets. With a square Zeropoint Quickclamping cylinder prevents the pallet from twisting. The indexing function enables positioning every 90°. Especially suitable for use in turning.

Note:

The installation Zeropoint Quickclamping cylinders have high holding and pull-in forces with very small installation dimensions. Pneumatic pressure is only needed for unclamping (min. 6 bar / max. 12 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The pneumatic design has 2 connections: 1 x clamping / unclamping, 1 x turbo connection. The turbo connection is pressurised only briefly with 6 bar after the clamping process, thus achieving the specified pull-in forces. Square pallet for screwing onto the pallet see item no. 6370ZA.

On request:

- Installation diagrams on request
- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications



Dimensions:

Order no.	ØDN	ØD1	H	HA	H1	□L	□L1	ØLK	M	T
305623	40	102	57	15	5	150	130	118	M8	42

Clamping cylinder „Unitool“

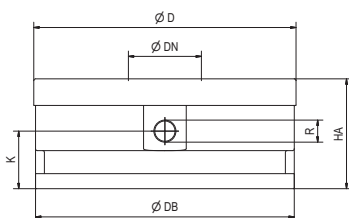
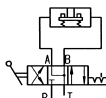
Build-up Zeropoint Quickclamping cylinder „Unitool“, round

Pneumatic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370AURL



Order no.	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
303586	30	55	6500

Use:

For mounting on machine tables, clamping profiles, columns and towers, measuring machines, assembly stations with clamping flange no. 6370ZB.

Note:

Pneumatic pressure is only needed for unclamping (min. 6 bar / max. 12 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The pneumatic design has 2 connections: 1 x clamping / unclamping, 1 x turbo connection. The turbo connection is pressurised only briefly with 6 bar after the clamping process, thus achieving the specified pull-in forces.

On request:

- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications
- **Can also be supplied with centering pins for quicker and more precise installation**

Dimensions:

Order no.	ØD	ØDB	ØDN	HA	K	R
303586	148	146	40	62	32,5	G1/4

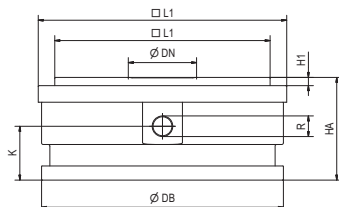
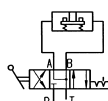
Build-up Zeropoint Quickclamping cylinder „Unitool“, square

Pneumatic release

Cover and piston hardened
Repeat accuracy < 0,005 mm

Stainless

No. 6370AUQL



Order no.	Pull-in force up to [kN]	Holding force [kN]	Weight [g]
305631	30	55	6650

Use:

Can be used as a single clamping point or combined with round surface-mounted Zeropoint Quickclamping cylinders in machine tables, clamping profiles, columns and towers, measuring machines, assembly stations. Clamping flange integrated onto the housing.

Note:

Pneumatic pressure is only needed for unclamping (min. 6 bar / max. 12 bar). The Zeropoint Quickclamping cylinders are mechanically locked in the clamped position. The advantages of this are that there are no cumbersome lines and no danger of leakage. The pneumatic design has 2 connections: 1 x clamping / unclamping, 1 x turbo connection. The turbo connection is pressurised only briefly with 6 bar after the clamping process, thus achieving the specified pull-in forces. Square pallet for screwing onto the pallet see item no. 6370ZA.

On request:

- Automation solutions such as media ducts, sensor of locking monitoring, blowing off and isolated applications
- **Can also be supplied with centering pins for quicker and more precise installation**

Dimensions:

Order no.	ØDB	ØDN	HA	H1	K	□L	□L1	R
305631	146	40	62	5	32,5	150	130	G1/4

Accessories „Unitool“

- Clamping nipple „Unitool“



Page 61