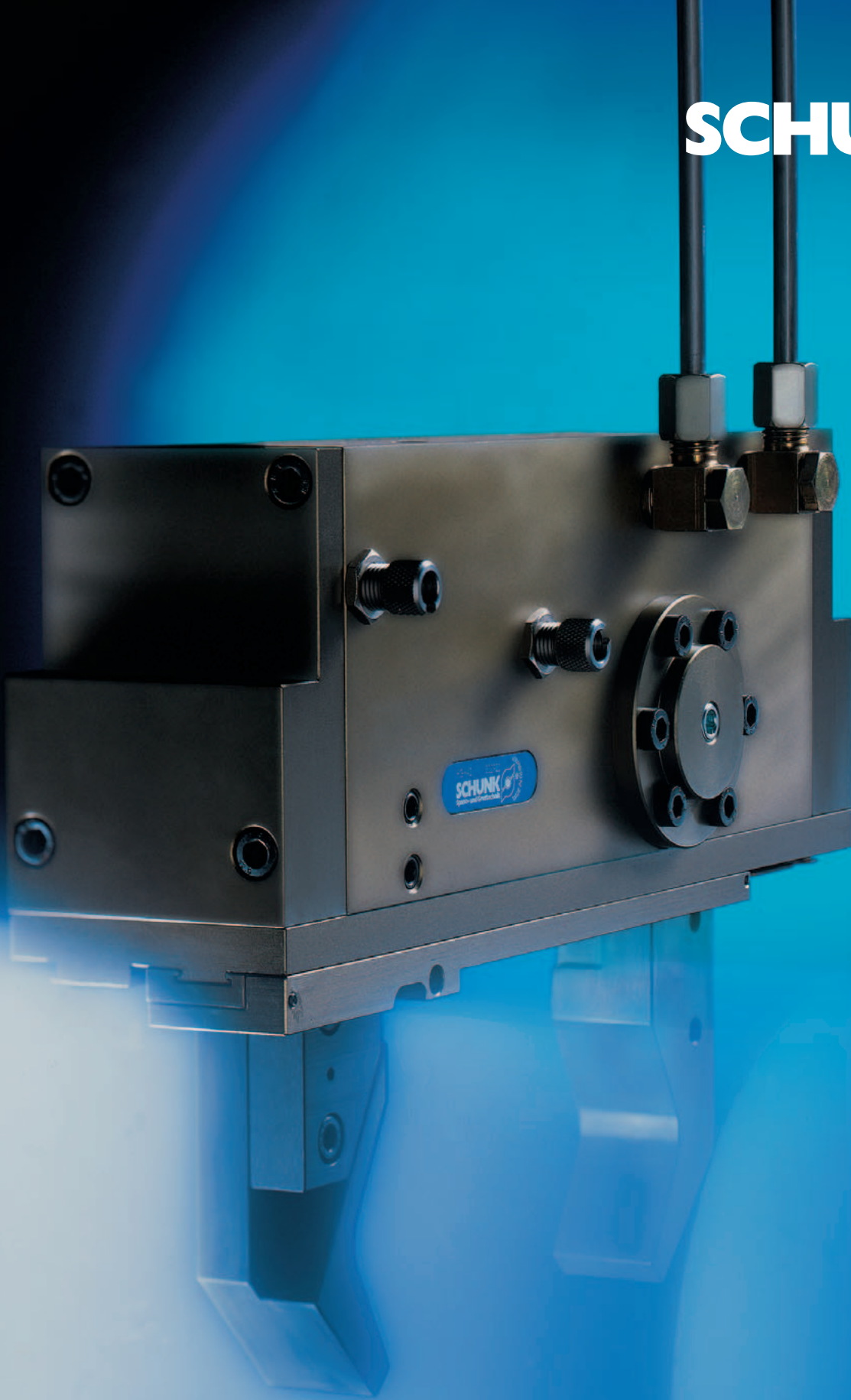




GRIPPING SYSTEMS

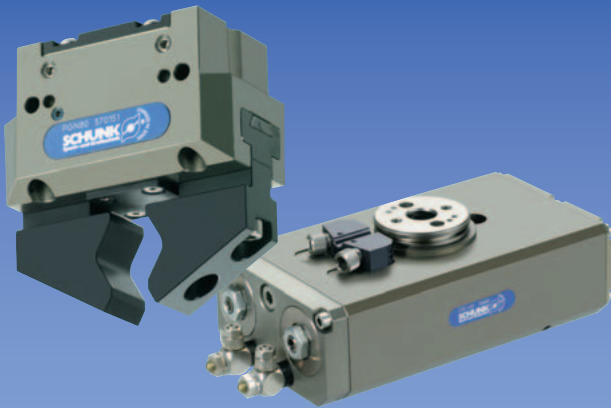
HYDRAULIC

MODULES FOR AUTOMATION



SCHUNK OFFERS MORE!

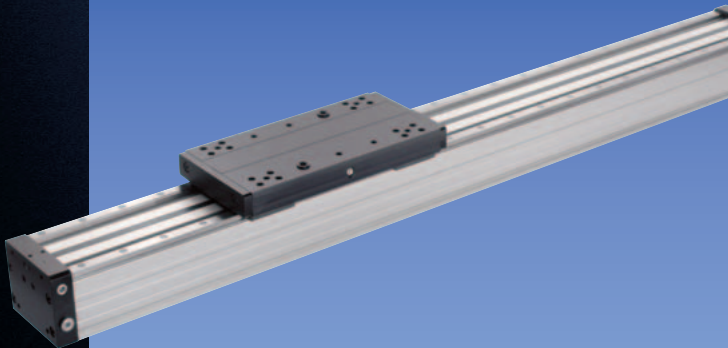
PNEUMATIC GRIPPING SYSTEMS



HYDRAULIC GRIPPING SYSTEMS



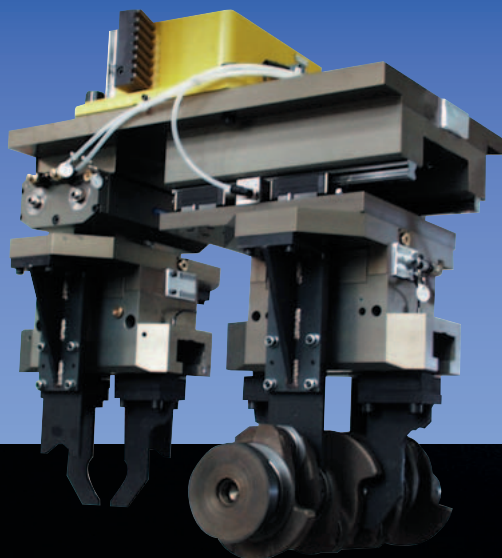
LINEAR SYSTEMS



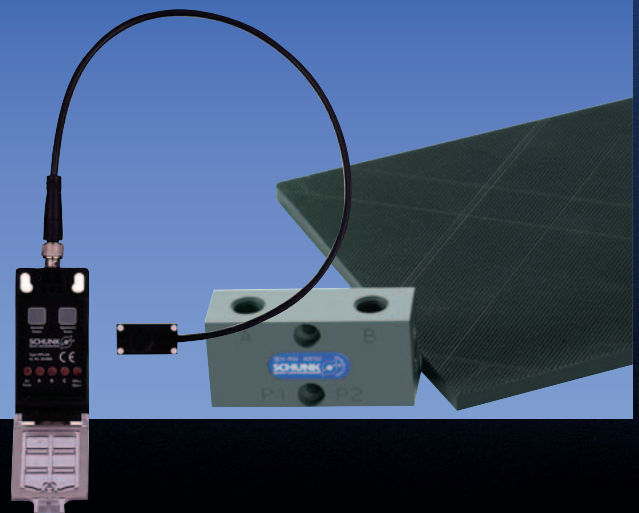
ROBOT ACCESSORIES



SPECIAL GRIPPING SYSTEMS



ACCESSORIES



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for better results**

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support from our
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SCHUNK is exceptional

- Certified according to DIN EN ISO 9001
- Winner of Dr. Rudolf Eberle Foundation award
- Numerous copyrights world-wide

Progress by aiming to future developments

- Example: LIRAX linear systems –
a complete modular system made up of automation modules
which are specially designed to work together
- Internal feed-through of compressed air and electricity supplies
- Integrated shock absorbers in swivel and linear units
for cushioned end positions
- Use of state-of-the-art materials and coating treatment
technologies as standard
- Leads the world in innovation and technology

Don't put up with anything less

- Hotline – you can contact our experts every working day
between 7am and 6 pm:

Customer Service: Tel. +49-(0)-71 33-103-503
(Sales standard modules, information as to prices and delivery time)

Technical Assistance: Tel. +49-(0)-71 33-103-696
(Technical advice and sales)

- On-site technical consultancy provided by our competent and
experienced outside engineers
- Extensive stocks of standard products
for quick-response delivery
- Tools available for trials on request –
so you can be quite sure
- Custom solutions – effective and reliable

2-Finger Parallel Gripper

from page 10

HGH

HGN



3-Finger Centric Gripper

from page 26

HZN



3-Jaw Insertion Gripper

from page 36

UFG



Swivel Unit

from page 42

HSE



Swivel Head

from page 46

HSK



2-Finger Parallel Gripper



HGH

2-Finger Large-Stroke Gripper

Types	Overall stroke	Gripping force (60 bar)	Page
HGH 40	120 mm	3300 N	10



HGN

2-Finger Parallel Gripper

Types	Overall stroke	Gripping force (60 bar)	Page
HGN 80	16 mm	330 N	16
HGN 80 AS	16 mm	430 N	17
HGN 100	20 mm	620 N	18
HGN 100 AS	20 mm	840 N	19
HGN 125	26 mm	1350 N	20
HGN 125 AS	26 mm	1710 N	21
HGN 160	32 mm	2100 N	22
HGN 160 AS	32 mm	2660 N	23



3-Finger Centric Gripper



HZN

3-Finger Centric
Gripper

Types	Overall stroke	Gripping force (60 bar)	Page
HZN 80	16 mm	1230 N	26
HZN 80 AS	16 mm	1570 N	27
HZN 100	20 mm	1920 N	28
HZN 100 AS	20 mm	2470 N	29
HZN 125	26 mm	2900 N	30
HZN 125 AS	26 mm	3600 N	31
HZN 160	32 mm	5100 N	32
HZN 160 AS	32 mm	6400 N	33



3-Jaw Insertion Gripper



UFG

3-Jaw Insertion
Gripper

Types	Overall stroke	Gripping force (60 bar)	Page
UFG 26	64 mm	3450 N	36
UFG 32	108 mm	6240 N	38



Swivel Unit



HSE

Swivel Unit

Types	Angle of traverse	Torque at 40 bar	Page
HSE 28	0 – 180°	58 Nm	42



Swivel Head

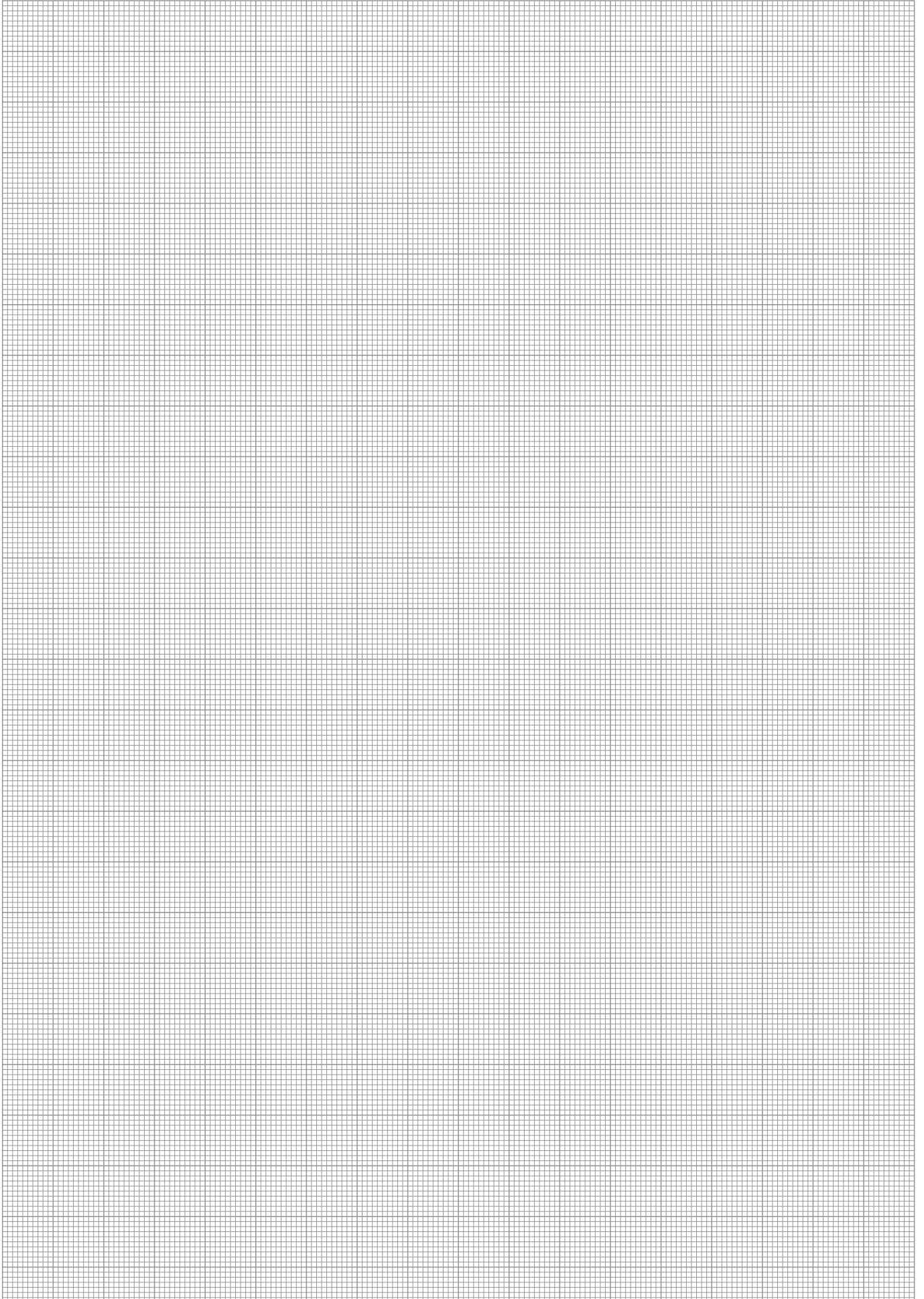


HSK

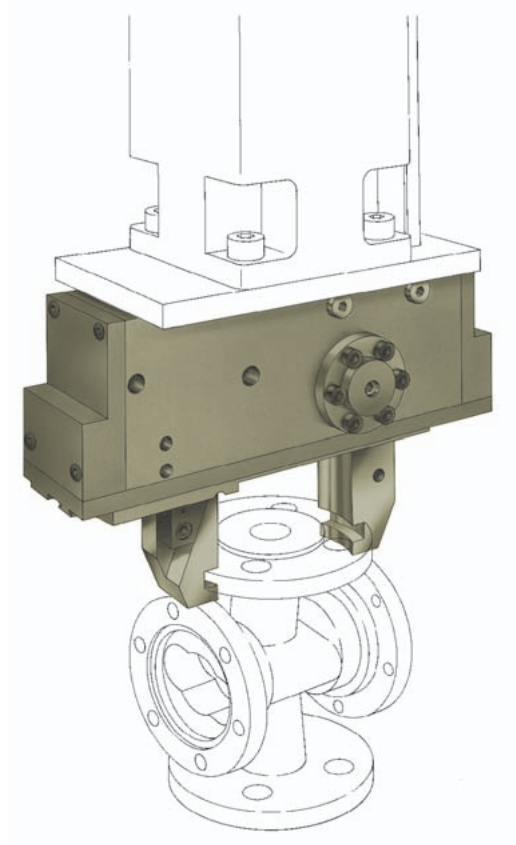
Swivel Head

Types	Angle of traverse	Torque at 40 bar	Page
HSK 40	0 – 180°	40 Nm	46





2-Finger Parallel Gripper Type HGH, hydraulic





Benefits

- Hydraulic gripper with 120 mm stroke
- Compact design
- Low weight
- High gripping force
- Dirt and dust proof
- High reliability and long service life
- High axial and radial load capacity
- Suitable for O.D. and I.D. gripping
- Integrated positive locking device
- Multiple fastening possibilities
- Monitoring of finger positions using proximity switches
- Comprehensive user's manual and maintenance instructions
- Warranty: 12 months

Technical data

Method of functioning:

rack and piston drive system

Material:

housing is made of hard-coated, high-strength aluminium and the functional components are hardened steel

Actuation:

hydraulic, hydraulic oil filtered (10 µm), viscosity 46 mm²/s at 40 °C according to ISO VG

Operating pressure range:

from 30 - 60 bar

Maintenance:

maintenance free up to 2,000,000 strokes

Installation position:

application-dependent

Operating temperature:

from 5 °C - 60 °C

Scope of delivery:

brackets for proximity switches, user's manual and maintenance instructions, manufacturer's certificate

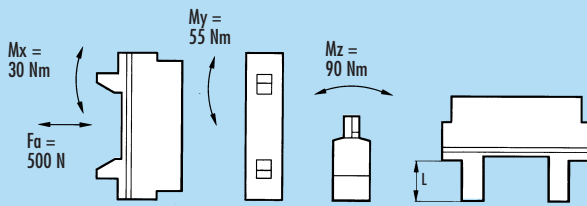
Maintenance of gripping force in the event of a power loss:

Maintenance of gripping force in the event of a power loss: via integrated positive locking device

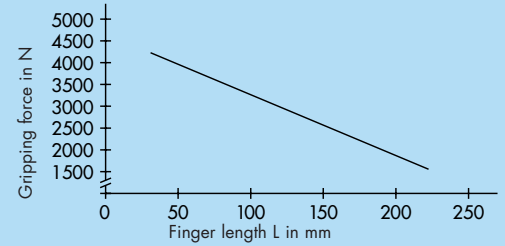
Accessories:

proximity switches

Maximum permissible forces and torques at the gripping fingers *



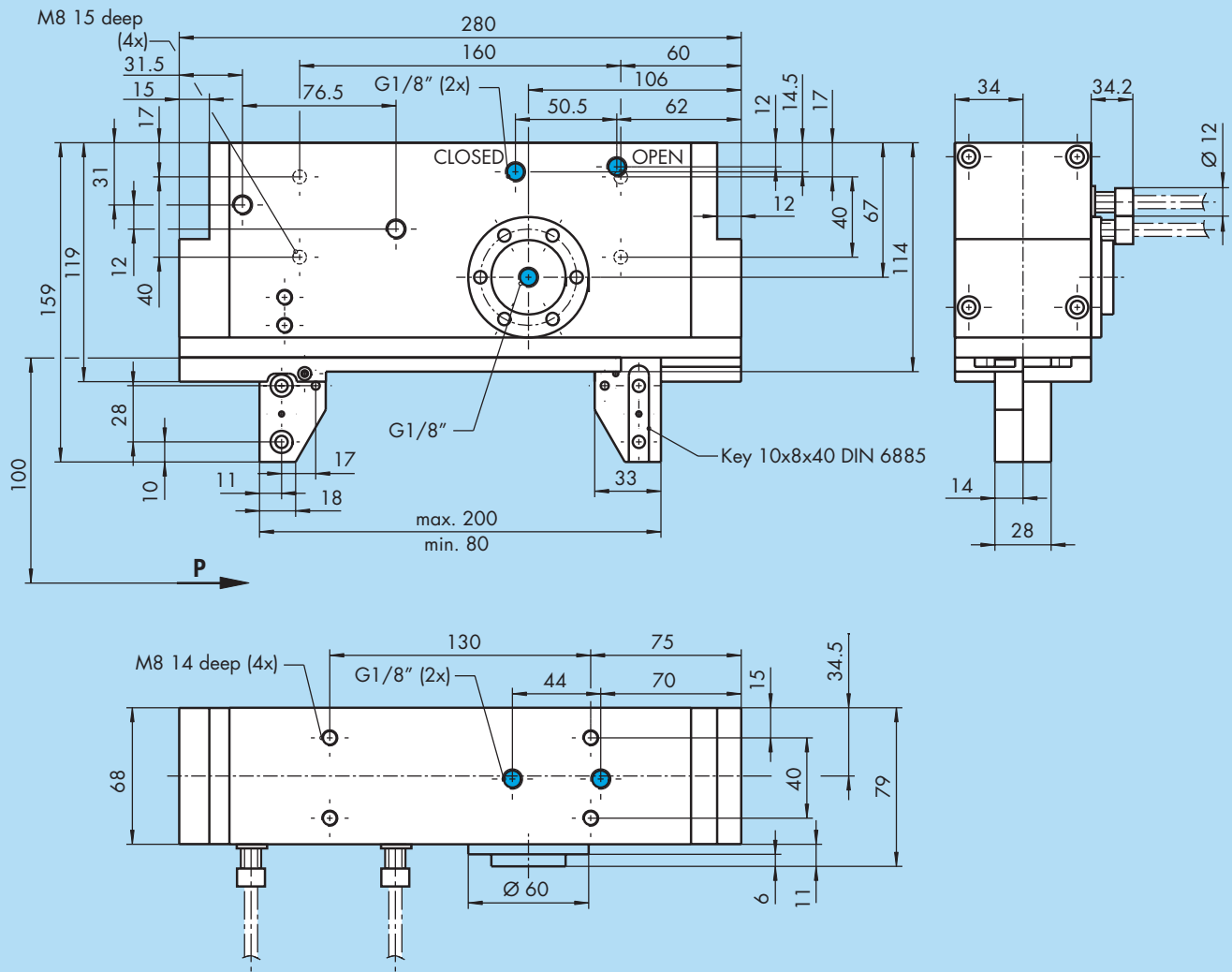
Gripping force in relation to the finger length



*which may occur in addition to the gripping force

Dimensions for HGH 40

● = Oil connection



2-Finger Parallel Gripper HGH 40 with integrated maintenance of gripping force

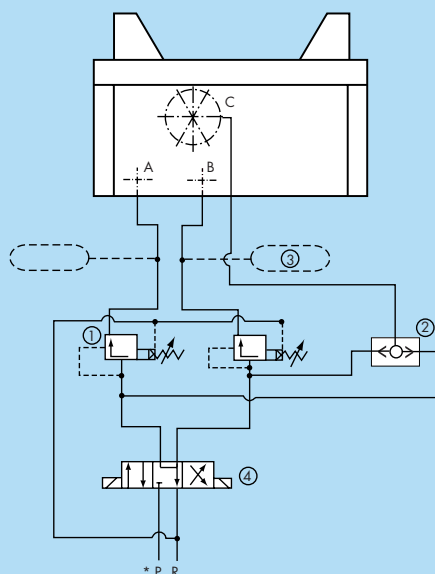
Type	HGH 40
ID. no.	302 920
Stroke per jaw	60 mm
Gripping force at 60 bar*	3300 N
Workpiece weight** (recommended)	16 kg
Oil volume per double stroke	open: 76 cm ³ / close: 64 cm ³
Opening time	1.3 s
Closing time	1.3 s
Mass	6.6 kg
Mass moment of inertia	432 kg cm ²
Repeat accuracy***	0.1 mm
Max. finger length	120 mm

* Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws, distance P at 60 bar.

** Values at coefficient of friction $\mu = 0.1$ and safety factor $v = 2$. These values may be higher in the case of form-fit clamping.

*** Spread of end positions after 100 consecutive strokes.

Block diagram with pressure valve as switching valve



- ① Pressure valve used to set the switching sequence
- ② Shuttle valve (or-valve)
- ③ Pressure accumulator (optional)
- ④ 4/3 directional control valve, intermediate position is deaerated

* Piston speed is set such that the closing/opening time for a complete stroke is approx. 1.3 sec. at 60 bar. This corresponds to a volume flow of approx. 2.5 l/min. Medium: hydraulic oil, filtered (10 μ m) viscosity 46 mm²/s at 40°C according to ISO VG max. temperature 60°C.

Accessories for HGH 40



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see chapter on »Accessories«.

Type	ID. no.
INW 80/S	301 508

System modules and further accessories for HGH



Swivel units

For combineable swivel units and heads, see the »Gripper modules« catalogue.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems – please contact us to find out more.

2-Finger Parallel Gripper Type HGN, hydraulic

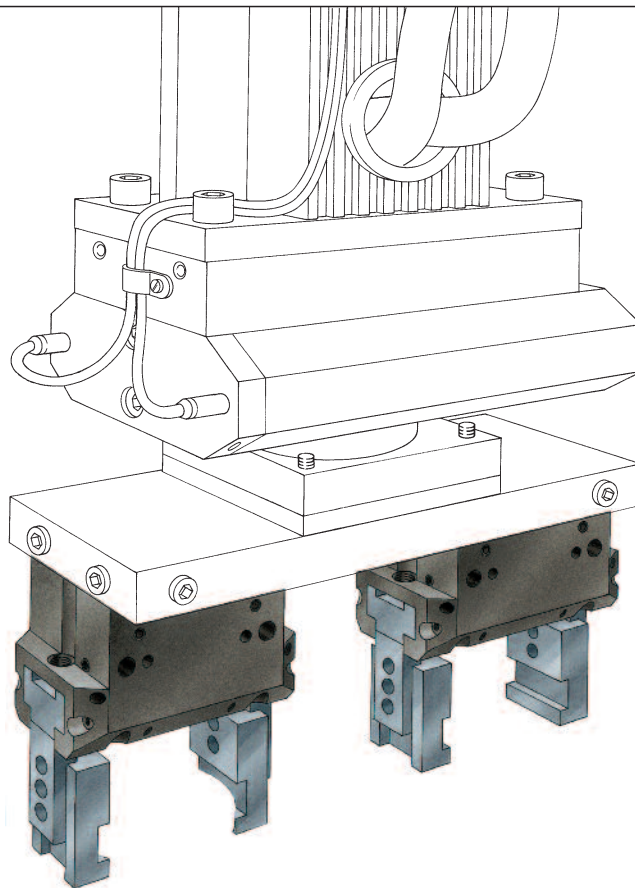




Figure with top jaw blanks

Benefits

- Very compact by virtue of the fact that the drive is integrated into the housing
- Very low weight due to the use of high-strength aluminium
- High gripping force through wedge and hook principle
- 4 sizes
- Good guidance properties thanks to flat guides
- Centric and parallel gripping movement due to positively-guided base jaws
- For I.D. and O.D. gripping
- Stroke monitoring: 2 positions via proximity switches and 5 via Hall sensors

Technical data

Medium:

Hydraulic oil, filtered (10 µm) viscosity 46 mm²/s at 40 °C according to ISO VG, max. temperature 60 °C.

Operating pressure range:

from 30 - 45 bar

Repeat accuracy:

HGN 80 and HGN 100 approx. 0.05 mm, HGN 125 and HGN 160 approx. 0.1 mm

Pressure connections:

either on the sides or the base.

It is essential that use a flow control valve set to 2 l/min.

Maintenance:

permanently lubricated, re-lubrication recommended after 1.5 million strokes

Method of functioning:

positively guided wedge hook system

Material:

housing is made from high-strength, hard-coated aluminium alloy and the functional components are from hardened steel

Type of gripping:

parallel

Installation position:

application-dependent

Operating temperature:

from 5 °C - 60 °C

Stroke control:

end position monitoring with proximity switches or flexible position sensors possible



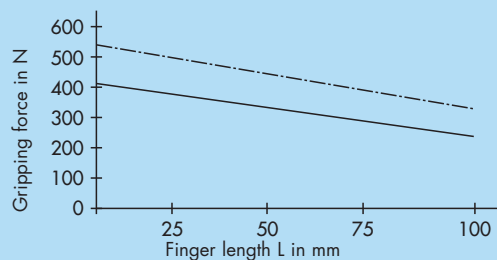
HGN 80

HGN 100

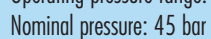
HGN 125

HGN 160

Gripping force in relation to the finger length



● = Oil connection



2-Finger Parallel Gripper HGN 80 and HGN 80 AS with integrated maintenance of gripping force

Type	HGN 80	HGN 80 AS
ID. no.	370 221	370 225*****
Stroke per jaw	8 mm	8 mm
Operating pressure max.	45 bar	60 bar
Gripping force at 45 bar*: External clamping / Internal clamping	230 N / 490 N	—
Max. workpiece weight** (recommended)	1.6 kg	1.6 kg
Oil volume per double stroke	3 cm ³	3 cm ³
Safety device force spring min.-max	—	100-200 N
Gripping force pressure+spring min.-max.	—	330 N / 430 N
Closing time only with spring	—	0.1 s
Opening time ****	0.3 s	0.3 s
Closing time ****	0.3 s	0.3 s
Mass	0.7 kg	0.85 kg
Mass moment of inertia	6 kg cm ²	6.5 kg cm ²
Repeat accuracy ***	0.05 mm	0.05 mm
Max. finger length	80 mm	80 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 45 bar and R¹/₈" connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HGN 80



Inductive proximity switch

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensor FPS

In the HGN 80, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HGN 80/100*	301 710

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 80	Aluminium	300 726
SBR 80	Steel	300 735

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



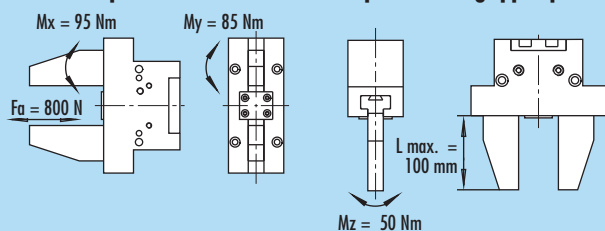
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

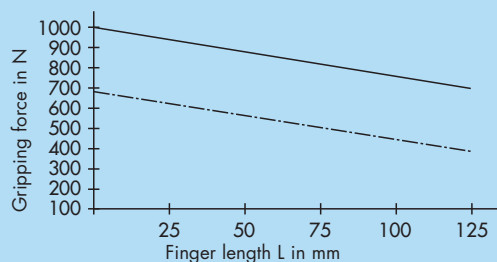
Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripper jaws

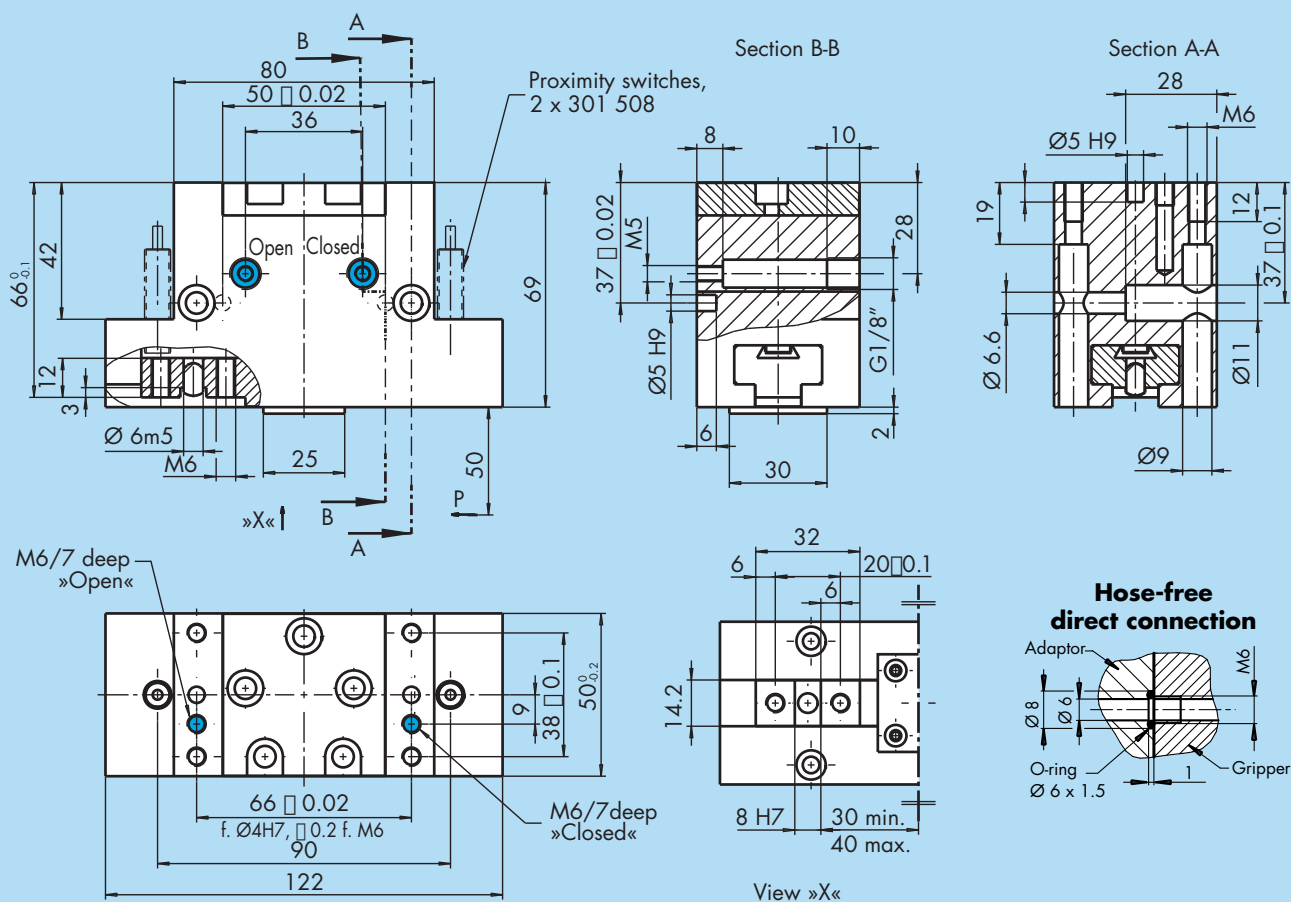


Gripping force in relation to the finger length



Dimensions for HGN 100

● = Oil connection

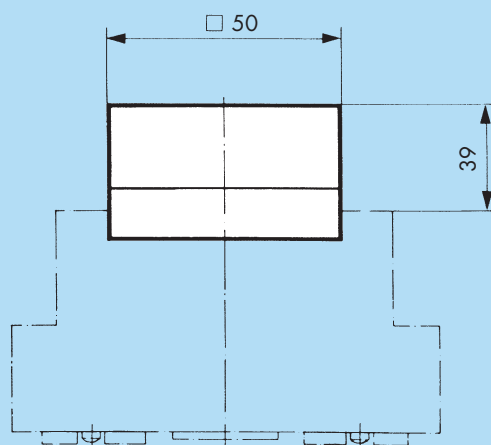


Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 45 bar.

Nominal pressure: 45 bar



2-Finger Parallel Gripper HGN 100 and HGN 100 AS with integrated maintenance of gripping force

Type	HGN 100	HGN 100 AS
ID. no.	370 222	370 226*****
Stroke per jaw	10 mm	10 mm
Operating pressure max.	45 bar	45 bar
Gripping force at 45 bar*: External clamping / Internal clamping	430 N / 840 N	—
Max. workpiece weight** (recommended)	3 kg	3 kg
Oil volume per double stroke	6 cm ³	6 cm ³
Safety device force spring min.-max	—	220-340 N
Gripping force pressure+spring min.-max.	—	650 N / 770 N
Closing time only with spring	—	0.15 s
Opening time ****	0.5 s	0.5 s
Closing time ****	0.5 s	0.5 s
Mass	1.2 kg	1.6 kg
Mass moment of inertia	15 kg cm ²	16.5 kg cm ²
Repeat accuracy ***	0.05 mm	0.05 mm
Max. finger length	100 mm	100 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 45 bar and R $\frac{1}{8}$ " connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HGN 100



Inductive proximity switch

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensor, FPS

In the HGN 100, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HGN 80/100*	301 710

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 100	Aluminium	300 727
SBR 100	Steel	300 736

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



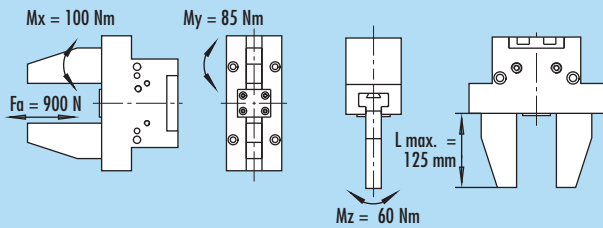
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

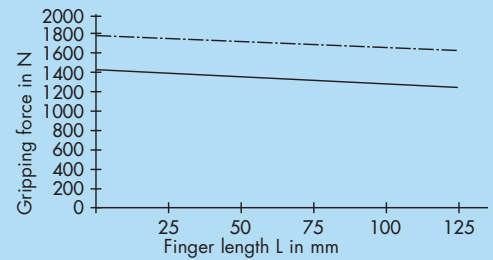
Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripper jaws



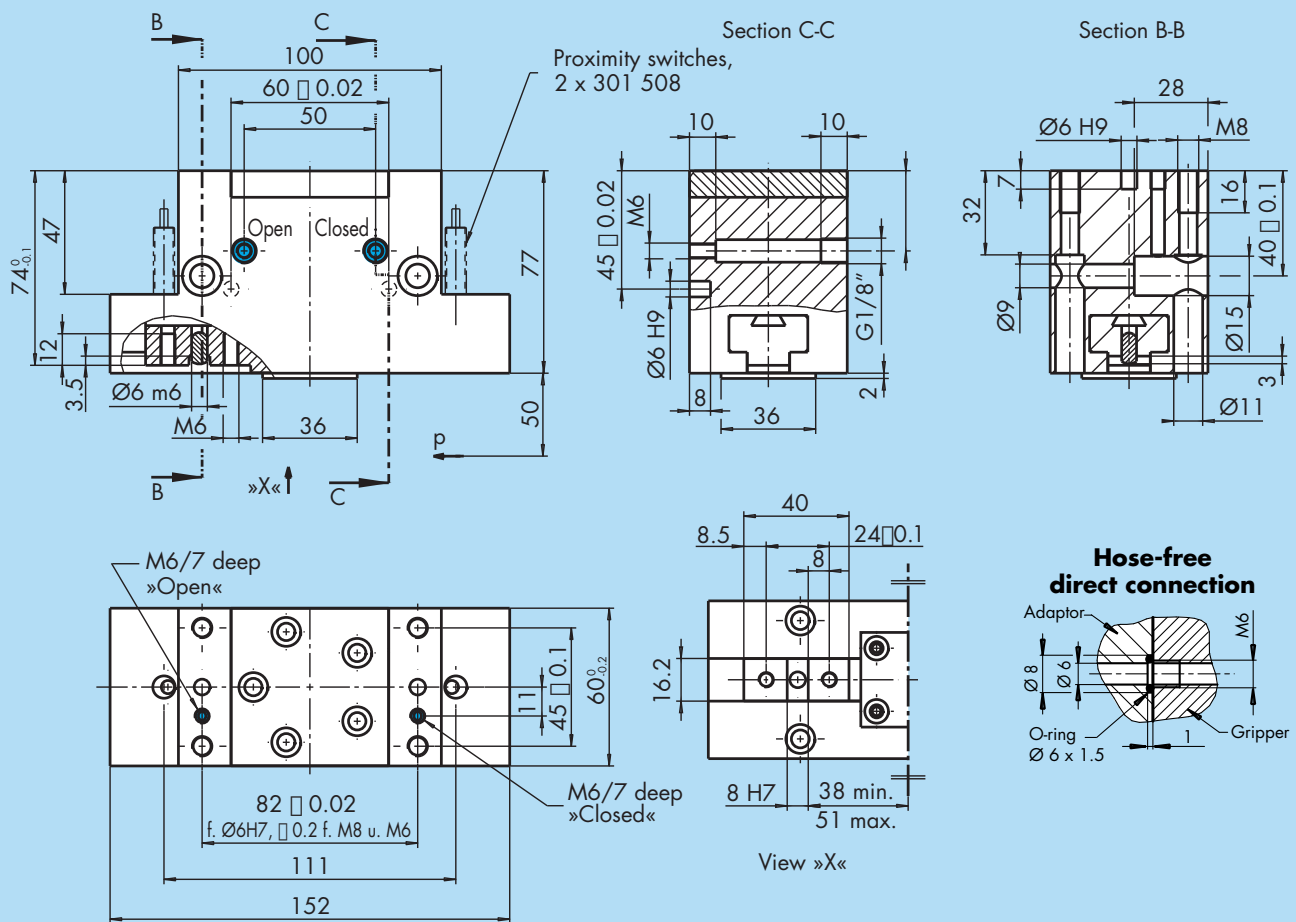
Gripping force in relation to the finger length

— HGN 125
--- HGN 125 AS



Dimensions for HGN 125

● = Oil connection

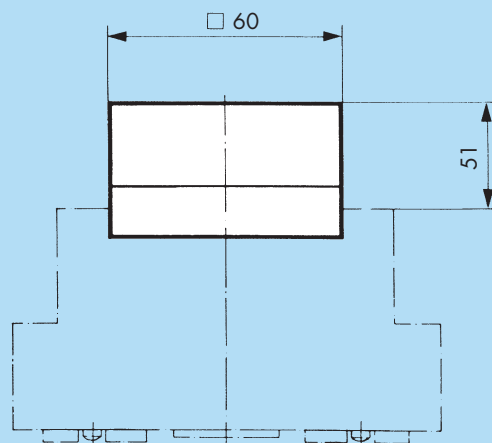


Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 45 bar.

Nominal pressure: 45 bar



2-Finger Parallel Gripper HGN 125 and HGN 125 AS with integrated maintenance of gripping force

Type	HGN 125	HGN 125 AS
ID. no.	370 223	370 227****
Stroke per jaw	13 mm	13 mm
Operating pressure max.	45 bar	45 bar
Gripping force at 45 bar*: External clamping / Internal clamping	950 N / 1610 N	—
Max. workpiece weight** (recommended)	7 kg	7 kg
Oil volume per double stroke	14 cm ³	14 cm ³
Safety device force spring min.-max	—	360-690 N
Gripping force pressure+spring min.-max.	—	1310 N / 1640 N
Closing time only with spring	—	0.2 s
Opening time ****	0.5 s	0.5 s
Closing time ****	0.5 s	0.5 s
Mass	1.9 kg	2.5 kg
Mass moment of inertia	37 kg cm ²	40 kg cm ²
Repeat accuracy ***	0.1 mm	0.1 mm
Max. finger length	125 mm	125 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 45 bar and R¹/₈" connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HGN 125



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensors, FPS

In the HGN 125, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HGN 125/160*	301 711

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 125	Aluminium	300 728
SBR 125	Steel	300 737

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



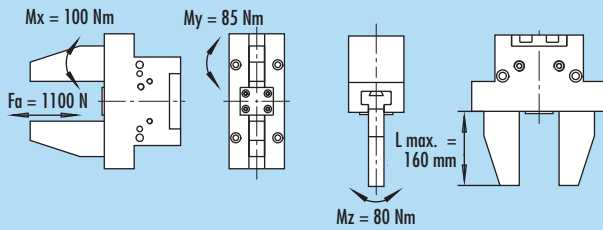
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

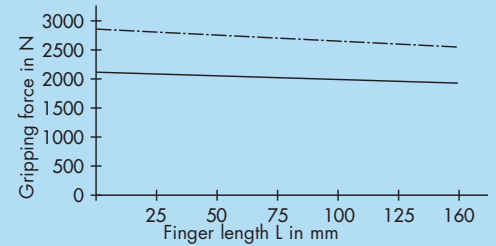
Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripper jaws



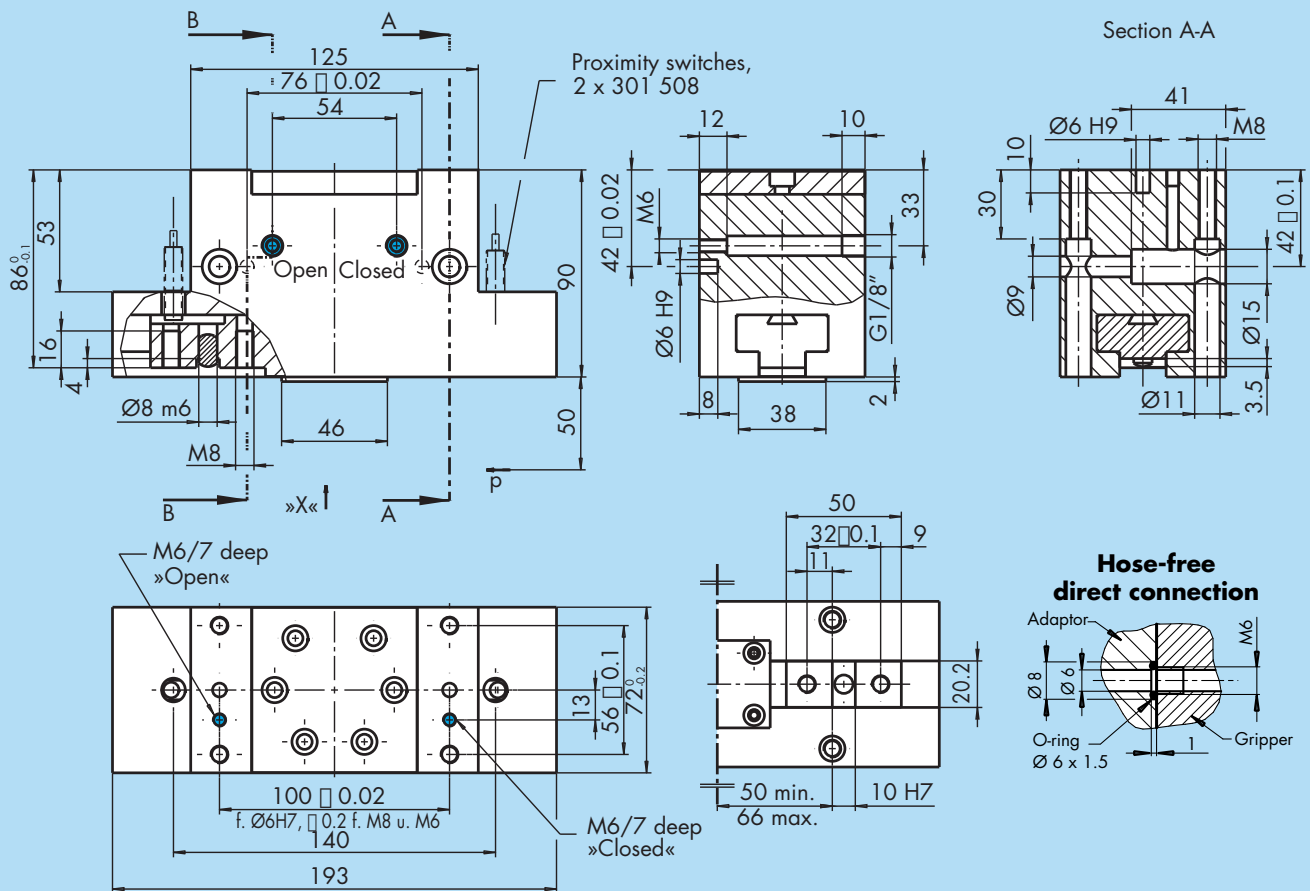
Gripping force in relation to the finger length

— HGN 160
--- HGN 160 AS



Dimensions for HGN 160

● = Oil connection

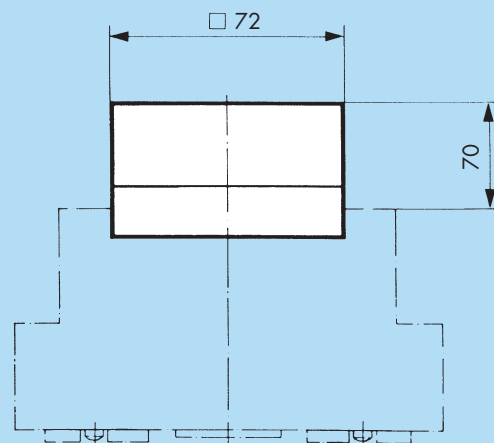


Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 45 bar.

Nominal pressure: 45 bar



2-Finger Parallel Gripper HGN 160 and HGN 160 AS with integrated maintenance of gripping force

Type	HGN 160	HGN 160 AS
ID. no.	370 224	370 228****
Stroke per jaw	16 mm	16 mm
Operating pressure max.	45 bar	45 bar
Gripping force at 45 bar*: External clamping / Internal clamping	1470 N / 2380 N	—
Max. workpiece weight** (recommended)	10 kg	10 kg
Oil volume per double stroke	26 cm ³	26 cm ³
Safety device force spring min.-max	—	560-1140 N
Gripping force pressure+spring min.-max.****	—	2030 N / 2610 N
Closing time only with spring****	—	0.3 s
Opening time ****	0.6 s	0.6 s
Closing time ****	0.6 s	0.6 s
Mass	3.4 kg	4.4 kg
Mass moment of inertia	106 kg cm ²	110 kg cm ²
Repeat accuracy ***	0.1 mm	0.1 mm
Max. finger length	160 mm	160 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 45 bar and R $\frac{1}{8}$ " connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HGN 160



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensors, FPS

In the HGN 160, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HGN 125/160*	301 711

* includes bracket, magnet and mounting screws.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 160	Aluminium	300 729
SBR 160	Steel	300 738

For technical data see the »Accessories« catalogue.

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

3-Finger Centric Gripper Type HZN, hydraulic

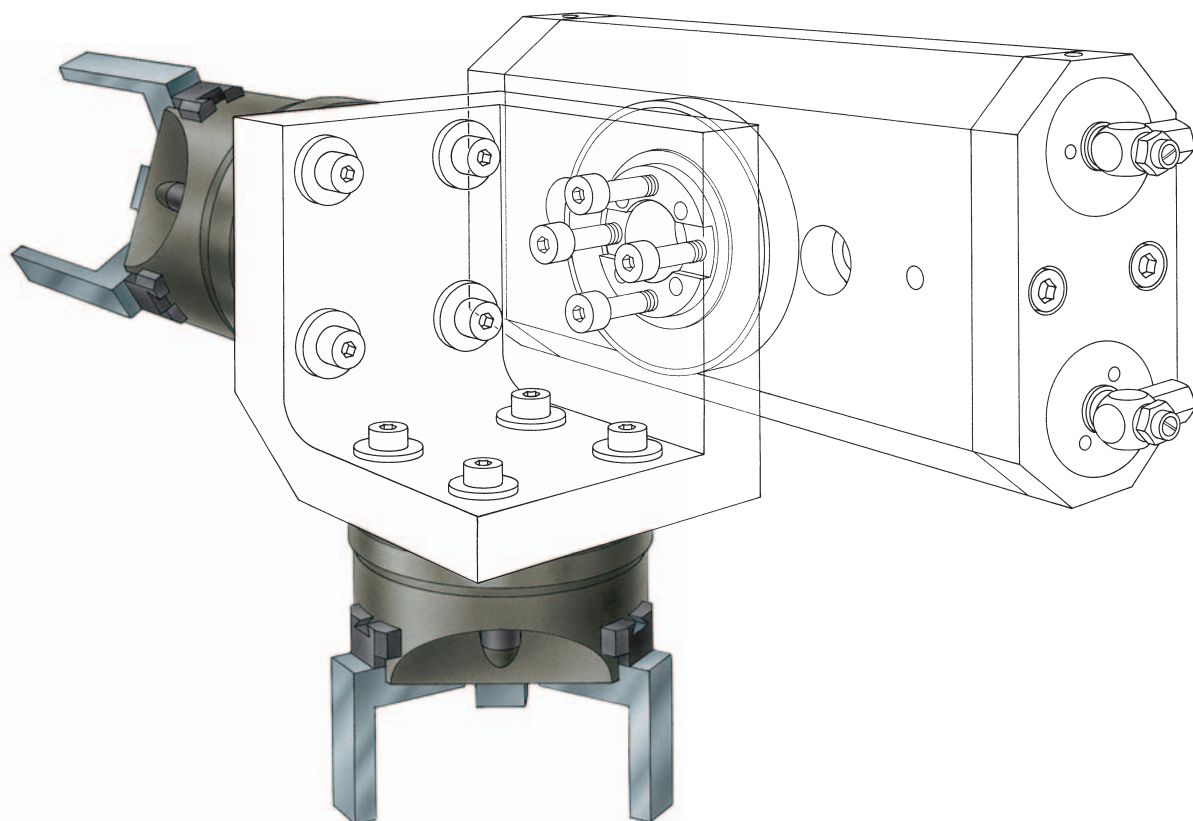




Figure with steel top jaws

Benefits

- Very compact by virtue of the fact that the drive is integrated into the housing
- Very low weight due to the use of high-strength aluminium
- High gripping force through wedge and hook principle
- 4 sizes
- Good guidance properties thanks to flat guides
- Centric and parallel gripping movement due to positively-guided base jaws
- For O.D. and I.D. gripping
- Oil connection on 2 sides and gripper fastening on 1 side
- Stroke monitoring: 2 positions via proximity switches and 5 via Hall sensors

Technical data

Medium:

Hydraulic oil, filtered (10 µm) viscosity 46 mm²/s at 40 °C according to ISO VG, max. temperature 60 °C

Operating pressure range:

from 30 - 60 bar

Repeat accuracy:

HZN 80 and HZN 100 approx. 0.05 mm, HZN 125 and HZN 160 approx. 0.1 mm

Pressure connections:

either on the sides or the base.

It is essential that you use a flow control valve set to 2 l/min.

Maintenance:

permanently lubricated, re-lubrication recommended after 1.5 million strokes

Method of functioning:

positively guided wedge hook system

Material:

housing is made from high-strength, hard-coated aluminium alloy and the functional components are from hardened steel

Type of gripping:

centric

Installation position:

application-dependent

Operating temperature:

from 5 °C - 60 °C

Stroke control:

possible via proximity switches or flexible position sensors



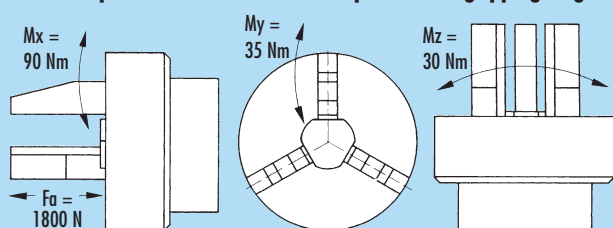
HZN 80

HZN 100

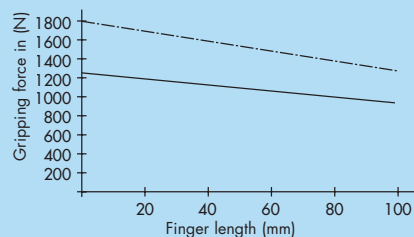
HZN 125

HZN 160

Maximum permissible forces and torques at the gripping fingers *



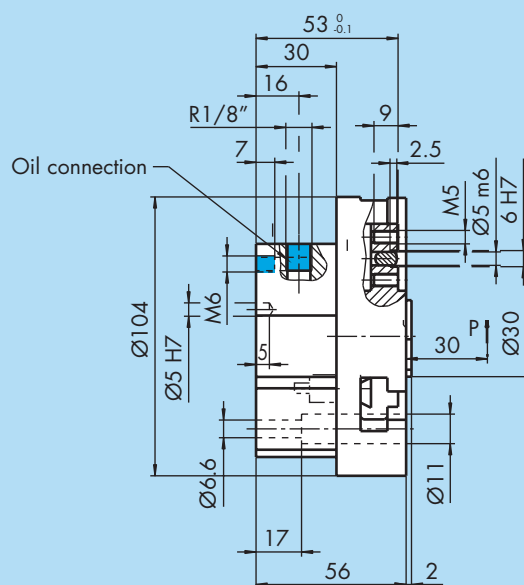
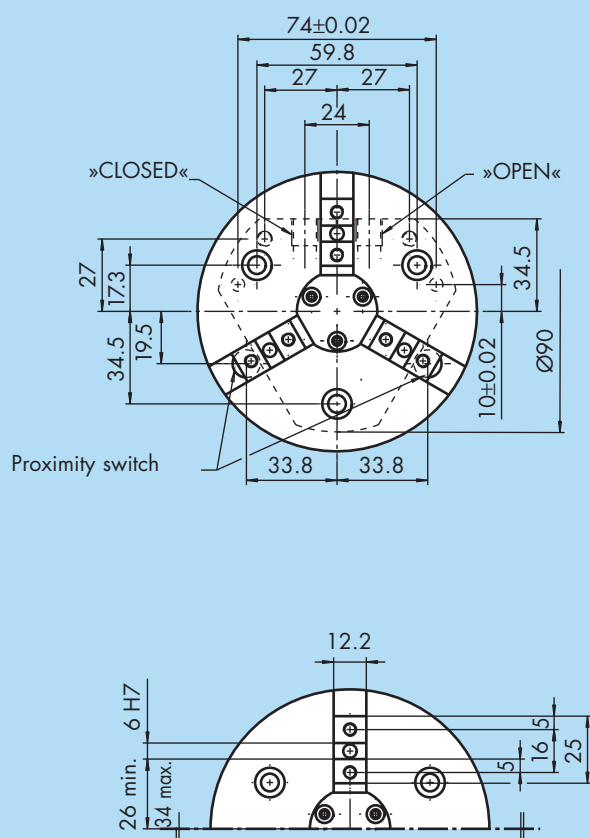
Gripping force in relation to the finger length



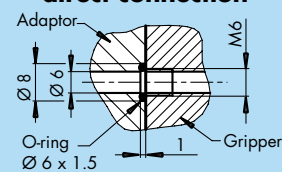
*which may occur in addition to the gripping force

Dimensions for HZN 80

● = Oil connection



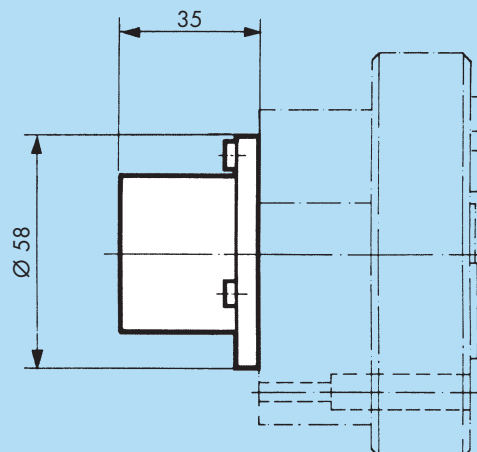
Hose-free direct connection



Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 60 bar.



3-Finger Centric Gripper HZN 80 and HZN 80 AS with integrated maintenance of gripping force

Type	HZN 80	HZN 80 AS
ID. no.	300 331	300 335*****
Stroke per jaw	8 mm	8 mm
Operating pressure max.	60 bar	60 bar
Gripping force at 60 bar*	1230 N	—
Max. workpiece weight** (recommended)	6 kg	6 kg
Oil volume per double stroke	8.5 cm ³	8.5 cm ³
Safety device force spring min.-max	—	340-550 N
Gripping force pressure+spring min.-max.****	—	1570-1780 N
Closing time only with spring	—	0.2 s
Opening time****	0.2 s	0.2 s
Closing time****	0.3 s	0.2 s
Mass	1.3 kg	2.1 kg
Mass moment of inertia	19 kg cm ²	21 kg cm ²
Repeat accuracy***	0.05 mm	0.05 mm
Max. finger length	80 mm	80 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 60 bar and R $\frac{1}{8}$ " connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HZN 80



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensors, FPS

In the HZN 80, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HZN 80/100*	301 715

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 80	Aluminium	300 726
SBR 80	Steel	300 735

System modules and further accessories for HZN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



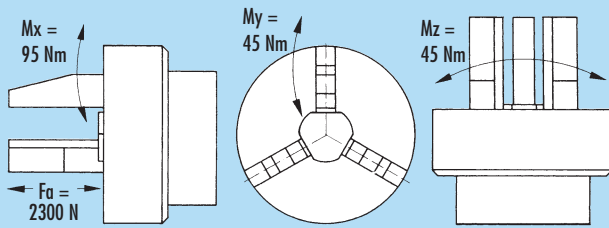
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

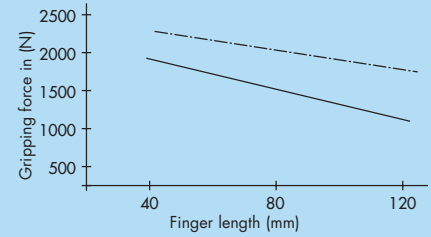
Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripping fingers *



Gripping force in relation to the finger length

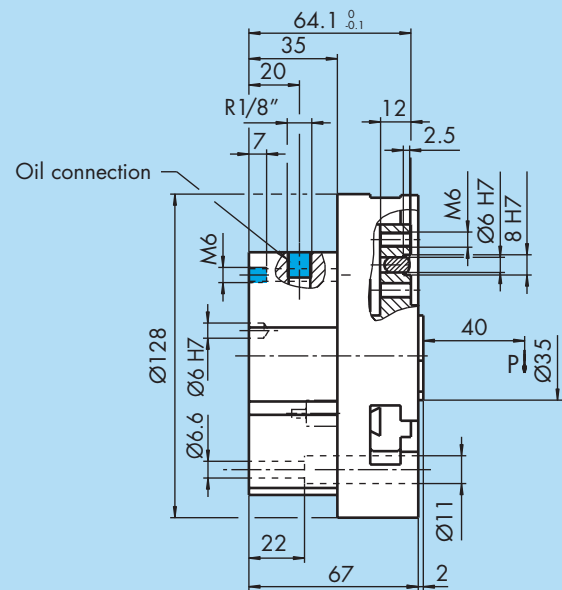
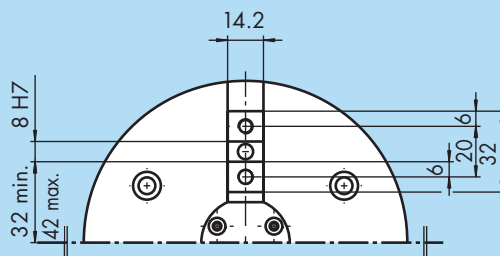
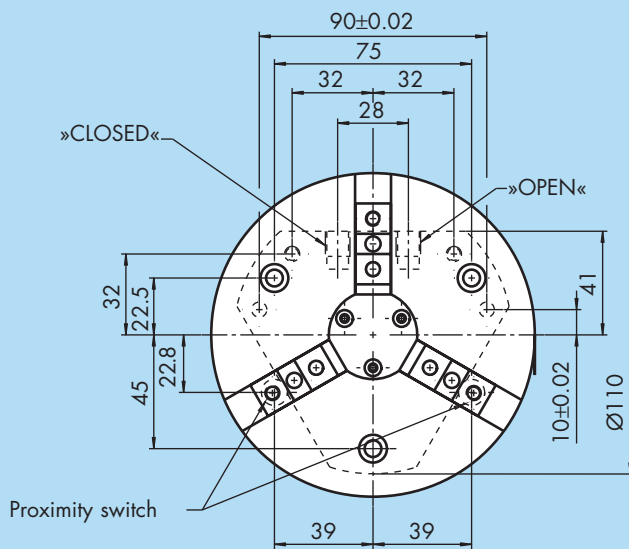
— HZN 100
--- HZN 100 AS



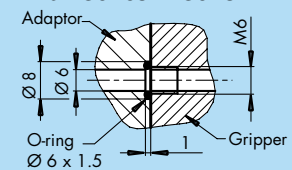
*which may occur in addition to the gripping force

Dimensions for HZN 100

● = Oil connection



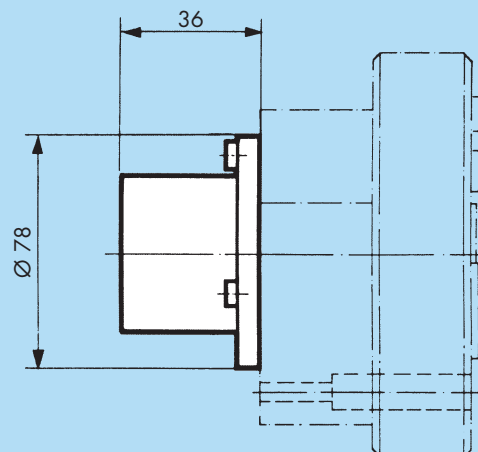
Hose-free direct connection



Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 60 bar.



3-Finger Centric Gripper HZN 100 and HZN 100 AS with integrated maintenance of gripping force

Type	HZN 100	HZN 100 AS
ID. no.	300 332	300 336****
Stroke per jaw	10 mm	10 mm
Operating pressure max.	60 bar	60 bar
Gripping force at 60 bar*	1920 N	—
Max. workpiece weight** (recommended)	9.5 kg	9.5 kg
Oil volume per double stroke	16 cm ³	16 cm ³
Safety device force spring min.-max	—	550-770 N
Gripping force pressure+spring min.-max.****	—	2470-2690 N
Closing time only with spring	—	0.2 s
Opening time****	0.35 s	0.3 s
Closing time****	0.35 s	0.2 s
Mass	2.3 kg	3.2 kg
Mass moment of inertia	47 kg cm ²	50 kg cm ²
Repeat accuracy***	0.05 mm	0.05 mm
Max. finger length	100 mm	100 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 60 bar and R¹/₈" connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HZN 100



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensors, FPS

In the HZN 100, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HZN 80/100*	301 715

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 100	Aluminium	300 727
SBR 100	Steel	300 736

System modules and further accessories for HZN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



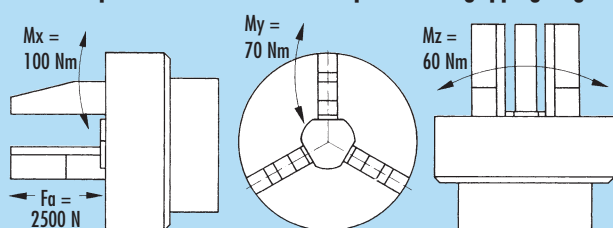
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

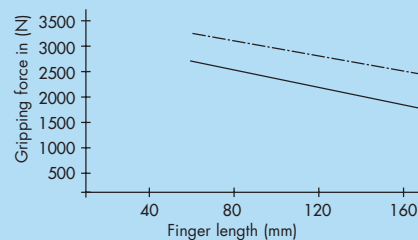
Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripping fingers *



Gripping force in relation to the finger length

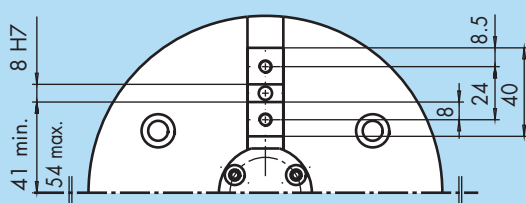
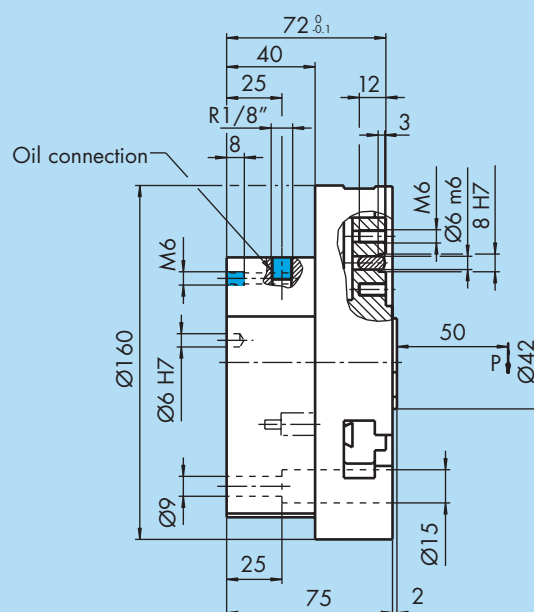
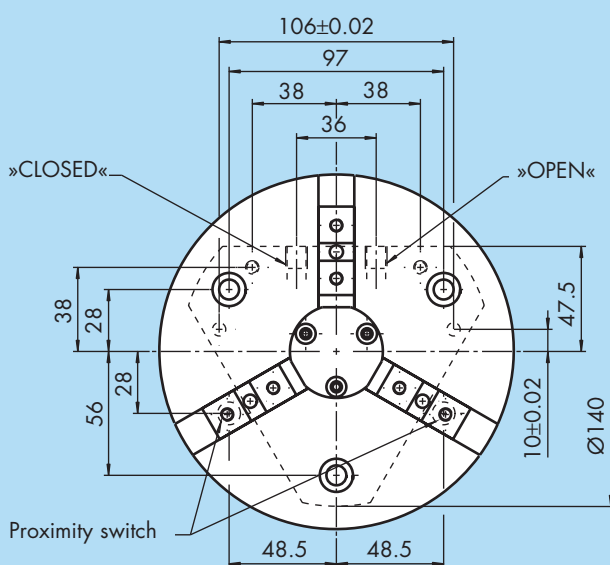
— HZN 125
--- HZN 125 AS



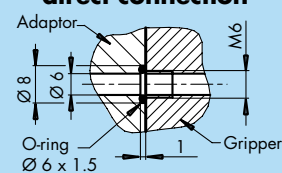
*which may occur in addition to the gripping force

Dimensions for HZN 125

● = Oil connection



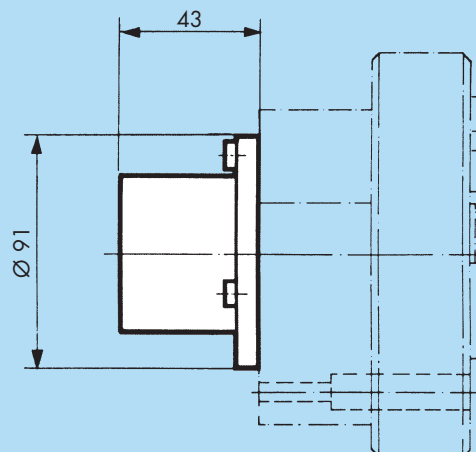
Hose-free direct connection



Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 60 bar.



3-Finger Centric Gripper HZN 125 and HZN 125 AS with integrated maintenance of gripping force

Type	HZN 125	HZN 125 AS
ID. no.	300 333	300 337****
Stroke per jaw	13 mm	13 mm
Operating pressure max.	60 bar	60 bar
Gripping force at 60 bar*	2900 N	—
Max. workpiece weight** (recommended)	14.5 kg	14.5 kg
Oil volume per double stroke	31.5 cm ³	31.5 cm ³
Safety device force spring min.-max	—	700-1400 N
Gripping force pressure+spring min.-max.****	—	3600-4300 N
Closing time only with spring	—	0.25 s
Opening time****	0.4 s	0.36 s
Closing time****	0.5 s	0.4 s
Mass	3.8 kg	4.9 kg
Mass moment of inertia	122 kg cm ²	138 kg cm ²
Repeat accuracy	0.1 mm	0.1 mm
Max. finger length	125 mm	125 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 60 bar and R¹/₈" connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HZN 125



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

* S = Closer



Flexible position sensors, FPS

In the HZN 125, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HZN 125/160*	301 716

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 125	Aluminium	300 728
SBR 125	Steel	300 737

System modules and further accessories for HZN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



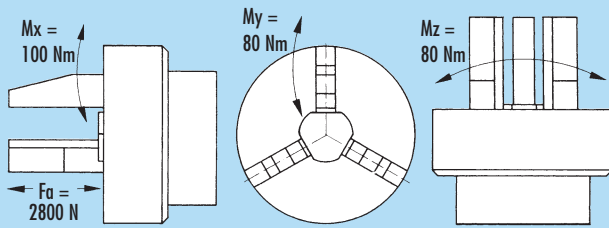
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

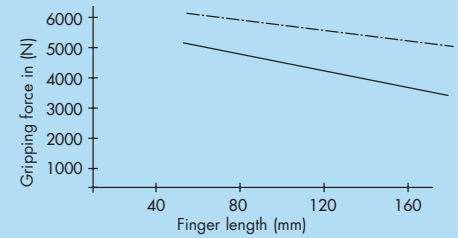
Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Maximum permissible forces and torques at the gripping fingers *



Gripping force in relation to the finger length

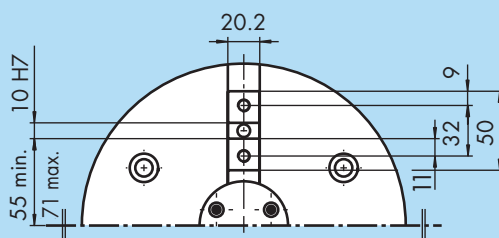
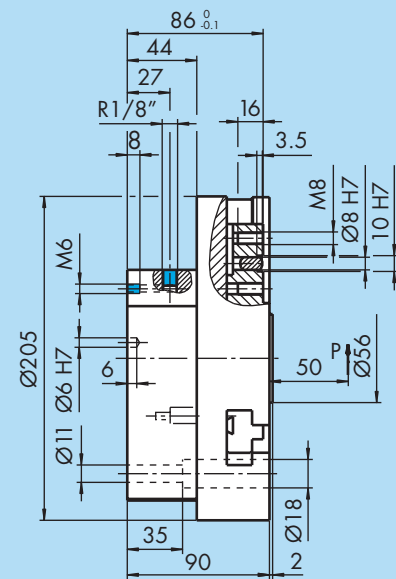
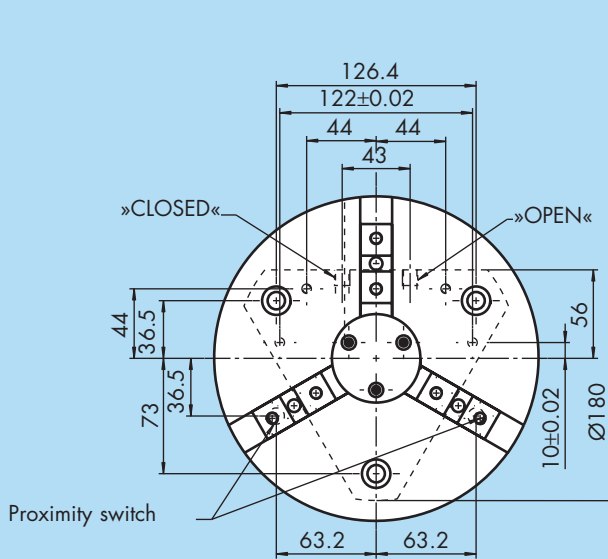
— HZN 160
--- HZN 160 AS



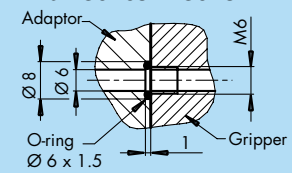
*which may occur in addition to the gripping force

Dimensions for HZN 160

● = Oil connection



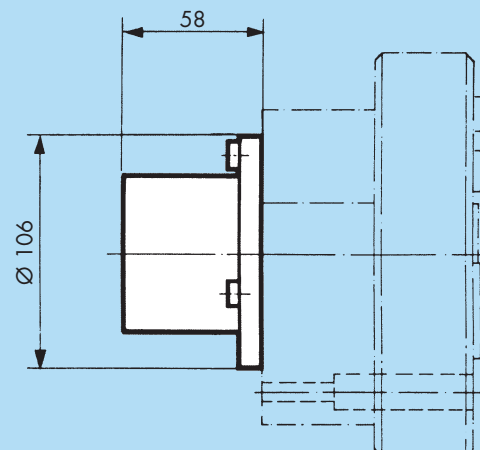
Hose-free direct connection



Gripping force safety device with spring only for O.D. gripping.

Can only be supplied on order with gripper.

Operating pressure range: min. 35 bar, max. 60 bar.



3-Finger Centric Gripper HZN 160 and HZN 160 AS with integrated maintenance of gripping force

Type	HZN 160	HZN 160 AS
ID. no.	300 334	300 338*****
Stroke per jaw	16 mm	16 mm
Operating pressure max.	60 bar	60 bar
Gripping force at 60 bar*	5100 N	—
Max. workpiece weight** (recommended)	25.5 kg	25.5 kg
Oil volume per double stroke	62 cm ³	62 cm ³
Spring min.-max	—	1300-2500 N
Gripping force pressure+spring min.-max.****	—	6400-7600 N
Closing time only with spring	—	0.3 s
Opening time****	0.7 s	0.7 s
Closing time****	0.7 s	0.5 s
Mass	7.2 kg	9.2 kg
Mass moment of inertia	380 kg cm ²	410 kg cm ²
Repeat accuracy***	0.1 mm	0.1 mm
Max. finger length	160 mm	160 mm

- * Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P
- ** Values at $\mu = 0.1$ and safety factor $v = 2$. The values may be higher in the case of form-fit clamping.
- *** Variation of end positions after 100 consecutive strokes.
- **** Measured at 60 bar and R¹/₈" connection.
- ***** Id. no. includes gripper and gripping force

Accessories for HZN 160



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408
INW 80/O*	301 518 altern. 301 418

* S = Closer

O = Opener

Proximity switch $\varnothing$ 8 mm upon request



Flexible position sensors, FPS

In the HZN 160, it is possible to monitor up to 5 positions via the flexible position sensors, FPS. For a technical description see the »Accessories« catalogue.

Type	ID. no.
FPS-S 13	301 705
FPS-A 5	301 800
AS-HZN 125/160*	301 716

* includes bracket, magnet and mounting screws.

For technical data see the »Accessories« catalogue.



Finger blanks

For technical details see the »Accessories« catalogue.

Type	Material	ID. no.
ABR 160	Aluminium	300 729
SBR 160	Steel	300 738

System modules and further accessories for HZN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



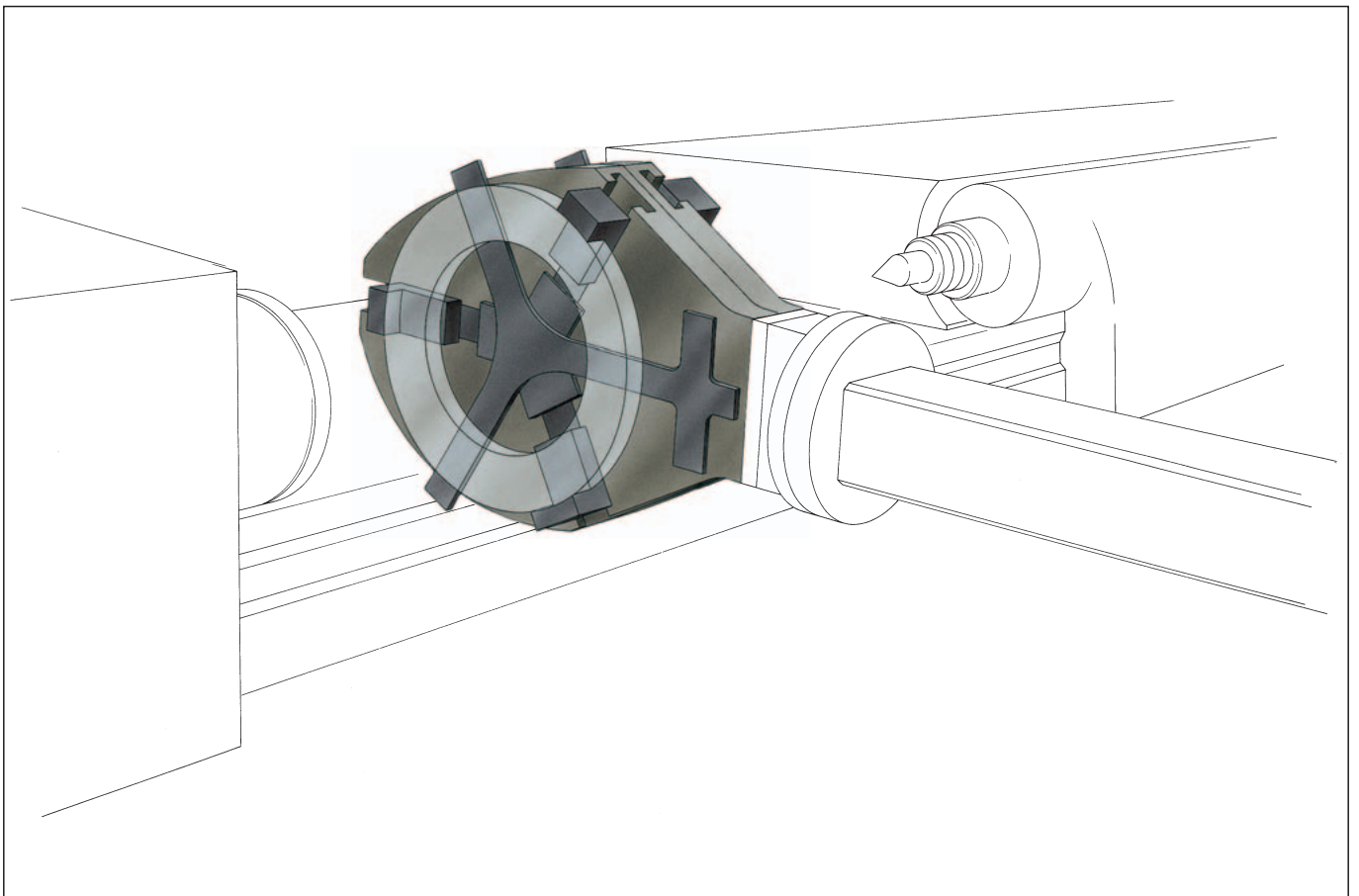
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

3-Jaw Insertion Gripper Type UFG, hydraulic



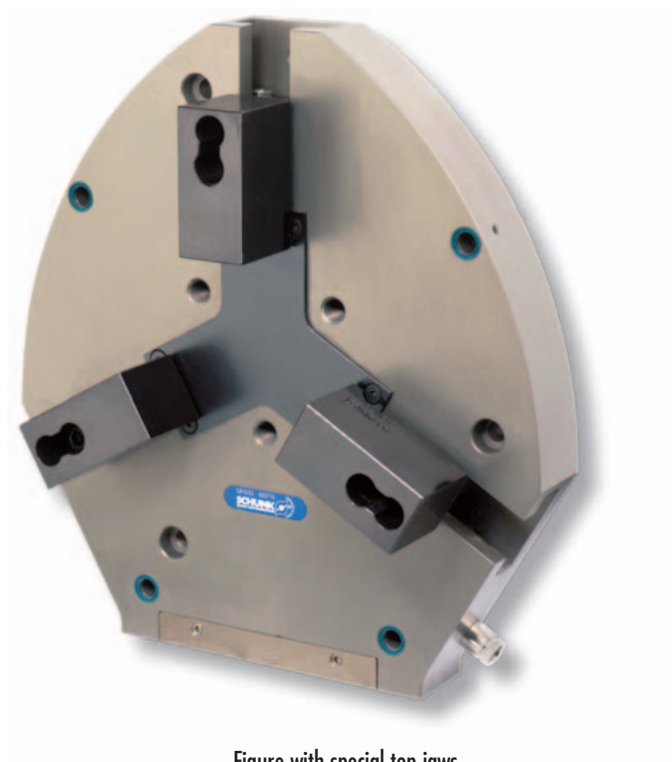


Figure with special top jaws



UFG 26

UFG 32

Benefits

- Very large clamping range
- Extremely flat and light construction
- High clamping force
- Stroke control
- Pressure device can be supplied upon request
- Universally applicable gripper e.g. for loading machine tools
- Minimal space required in the machine
- To be used as double gripper without rework. Two grippers are screwed »back to back«
- Your workpiece is kept pressed against the flat work surface by the axial pressure device
- Serrated base jaws for unproblematic attachment of workpiece-specific top jaws
- Very flat construction
- High clamping forces
- Large jaw stroke
- Robust design

Technical data

Actuation:

hydraulic, hydraulic oil, filtered (10 µm)

Repeat clamping precision:

0.05 mm

Hydraulic connections:

R 1/4" or optionally M 6 on the rear to the hose-free connection

Gripping force safety device:

with bladder-type accumulator and safety valves possible

Maintenance:

permanently lubricated, re-lubrication recommended after 2,000,000 cycles

Type of gripping:

centric, mechanical, positively guided

Method of functioning:

via pinion and gear rods

Installation position:

application-dependent

Material:

Housing: High-strength, hard-coated aluminium

Functional components: Hardened steel

Stroke control:

possible using installable proximity switches. Monitoring point can be adjusted continuously

Pressure piece:

upon separate order

Pressure force:

UFG 26: ~ 105 N (210 N on order)

UFG 32: ~ 165 N (330 N on order)

Operating temperature:

5 °C - 60 °C

Interval to the force application point across the housing (mm)	Clamping force (N)
20	2600
100	1900
200	1300
300	1000
400	800

3-Jaw Insertion Gripper UFG 26

Type	UFG 26
Gripper ID. no.	302 715
Gripping force at P and 60 bar*	3450 N
Workpiece weight** (recommended)	12.5 kg
Stroke per jaw	32 mm
Oil volume open / closed	34 / 29 cm ³
Opening time	0.9 s
Closing time	0.85 s
Gripper mass	4.6 kg
Mass moment of inertia	230 kg cm ²
Repeat accuracy***	0.1 mm
Operating pressure range	6 – 60 bar
Max. finger length	120 mm

* Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P

** Values at 40 or 50 bars and 40 mm jaw length as well as $\mu = 0.1$ and safety factor $v = 2$

*** Variation of end positions after 100 consecutive strokes.

Accessories for UFG 26



Finger blanks

For dimensions and details see the »Accessories« catalogue.

Type	ID. no.
ASB 26	302 703
SBR 26	302 707



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INK 80/S	301 550



Spring-loaded pressure piece

For the precise positioning of the workpiece (against stop) after opening the gripper, particularly for the loading of lathes.

Type	ID. no.
A-UFG 26	302 705

Pressure force approx. 105 N, mass approx. 0.2 kg

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

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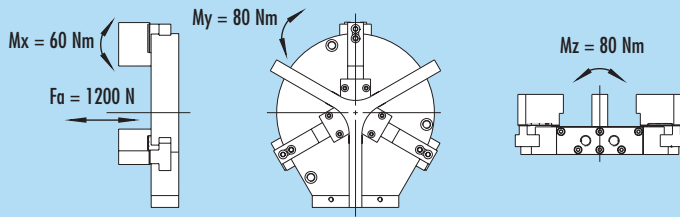
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

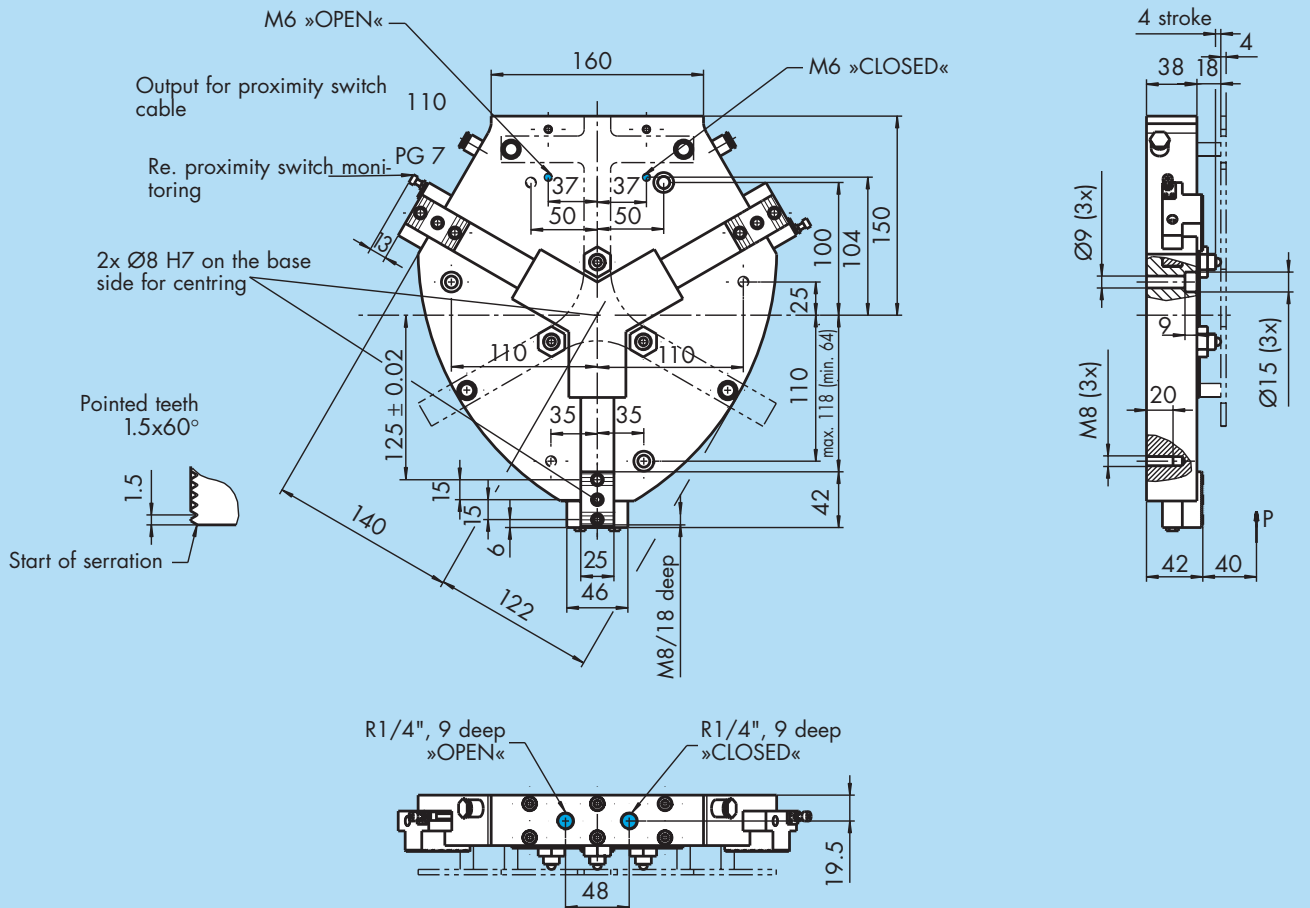
Note

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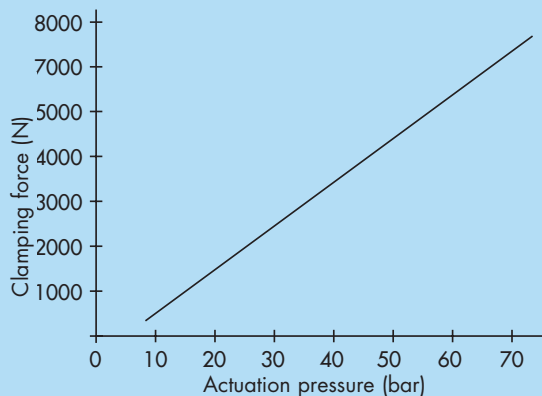
Maximum permissible forces and torques at the gripper jaws



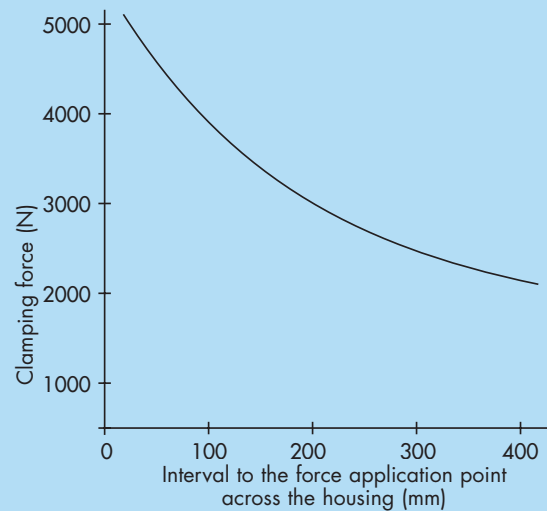
Dimensions for UFG 32



Gripping force diagram UFG 32 (external clamping)



Gripping force diagram UFG 32 (external clamping) with diff. intervals at 40 bar



3-Jaw Insertion Gripper UFG 32

Type	UFG 32
Gripper ID. no.	302 716
Gripping force at P and 60 bar*	6240 N
Workpiece weight** (recommended)	30 kg
Stroke per jaw	54 mm
Oil volume open / closed	87 / 78 cm ³
Opening time	2.1 s
Closing time	2.0 s
Mass of gripper / pressure piece	8.5
Mass moment of inertia	1050 kg cm ²
Operating pressure range	6 – 70 bar
Repeat accuracy***	0.1 mm
Max. finger length	120 mm

* Gripping force is the arithmetic sum of the individual forces occurring at the gripper jaws at P

** Values at 40 or 50 bars and 40 mm jaw length as well as $\mu = 0.1$ and safety factor $v = 2$

*** Variation of end positions after 100 consecutive strokes.

Accessories for UFG 32



Finger blanks

For dimensions and details see the »Accessories« catalogue.

Type	ID. no.
ASB 32	302 704
SBR 32	302 708



Inductive proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.

Type	ID. no.
INK 80/S	301 550



Spring-loaded pressure piece

For the precise positioning of the workpiece (against stop) after opening the gripper, particularly for the loading of lathes.

Type	ID. no.
A-UFG 32	302 706

Pressure force approx. 160 N, mass approx. 0.5 kg

System modules and further accessories for HGN



Swivel units

Combineable swivel units and heads are featured on Pages 40-47.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



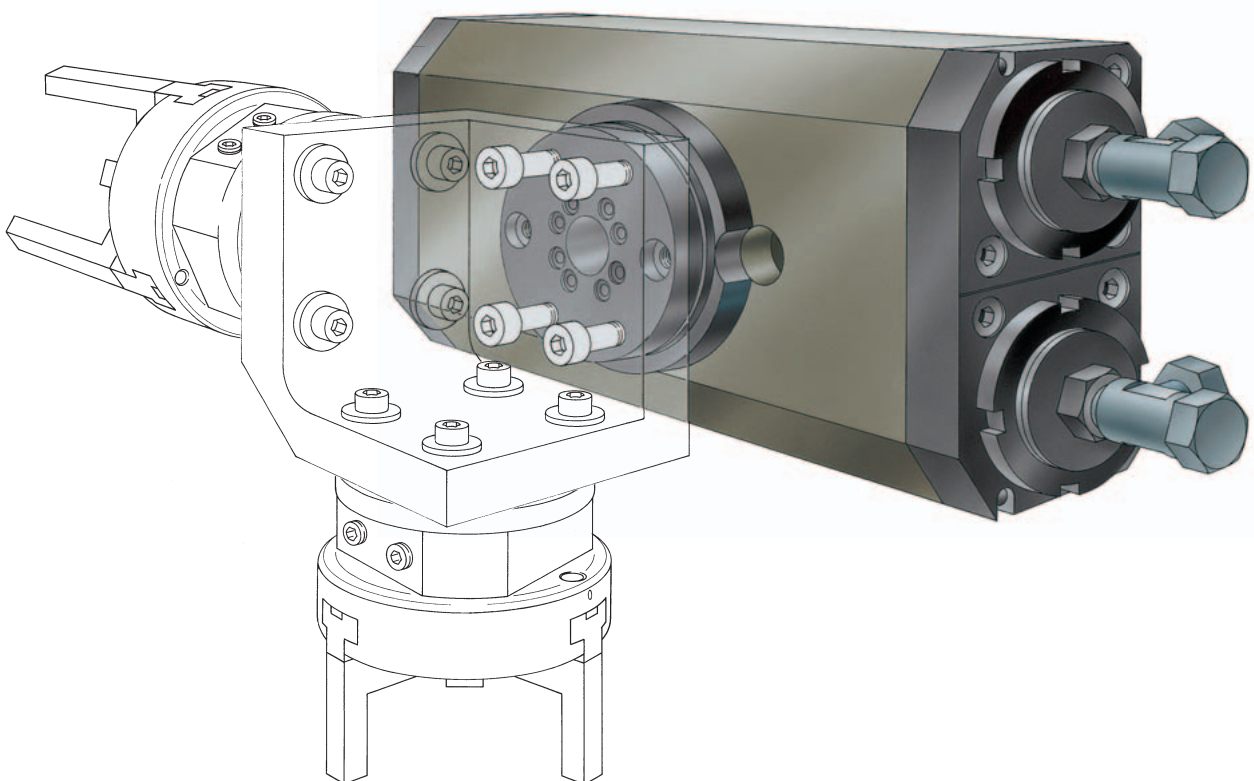
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems – please contact us to find out more.

Swivel Unit Type HSE, hydraulic





Benefits

- Compact design
- Low weight
- High load capacity
- Long service life
- Fine adjustment of end positions $\pm 2^\circ$
- End positions free from play
- Integrated pneumatic end position dampening
- Sealed bearings
- Monitoring of the angle of traverse via proximity switches
- Angle of traverse 180°
- Integrated, patented, hose-free energy feed-through
- Comprehensive user's manual and maintenance instructions
- Warranty: 12 months

Technical data

Method of functioning:

pinion and gear rod drive

Material:

housing is made of a high-strength, hard-coated aluminium alloy.
The functional components are made of hardened steel.

Actuation:

hydraulic, hydraulic oil filtered ($10 \mu\text{m}$), viscosity $46 \text{ mm}^2/\text{s}$ at 40°C according to ISO VG

Operating pressure range:

from 25 - 50 bar

Maintenance:

maintenance free up to 2,000,000 cycles

Installation position:

application-dependent

Operating temperature range:

from 5°C - 60°C

Scope of delivery:

bracket for proximity switch, detailed user's manual and maintenance instructions, manufacturer's certificate

Accessories:

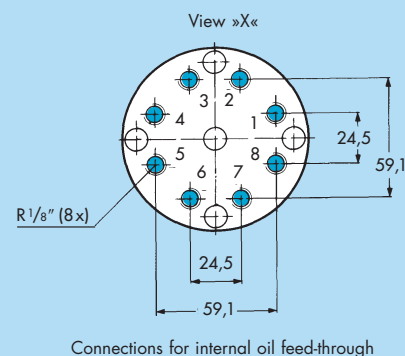
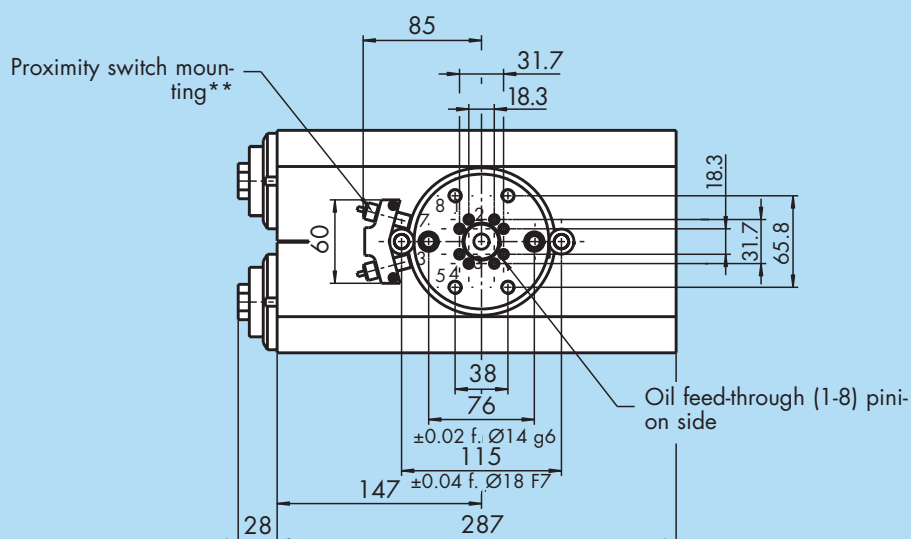
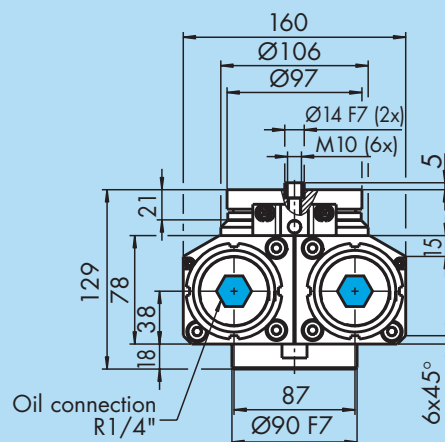
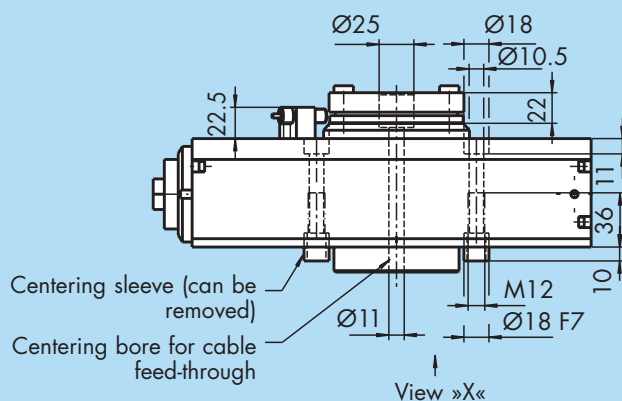
proximity switches

Dimensions for HSE 28

Basic type has angle of traverse of 180°

(angle of traverse limitation on separate order)

● = Oil connection



Oil connection detail

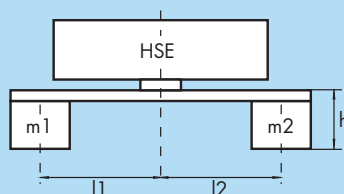
** Inductive proximity switch on separate order
2 x ID no. 301 508, alternatively:
2 x ID no. 301 408

Layout of the hydraulic swivel unit HSE 28

In order to determine the swivel unit layout you require, we would recommend that you use the SCHUNK calculation program SSE. We will gladly do this for you upon request.

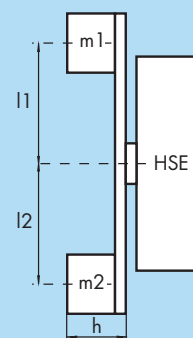
Case A

vertical swivelling axis



Case B

horizontal swivelling axis



Swivel Unit HSE 28

Type	HSE 28
ID. no.	352 820
Torque at 40 bar	58 Nm
Number of energy feed-throughs (max. 50 bar)	8
Axial bearing load	18 000 N
Radial bearing load	260 Nm
Oil consumption (1x180° at 40 bar)	47 cm³
Cycle time (1x180° without load)	1.5 s
Mass	16 kg
Mass moment of inertia	1600 kg cm²
Repeat accuracy for r = 21 mm	0.07 (0.2°)

Calculation for cases A and B

Moment of inertia $J = J_0 + J_1 + m_1 l_1^2 + J_2 + m_2 l_2^2$, $J < J$ permissible
 J_0 = moment of inertia of the crosshead
 J_1, J_2 = Mass moments of inertia $m_1 + m_2$ in regard to the barycentric axes

Notes: If l_1 and l_2 are large (> 50 mm), J_1 and J_2 may be ignored.
 If m_2 is not present, 0 (zero) is set for m_2, l_2 and J_2 .

In the event of an asymmetrical load in B, an additional calculation is required:

Static torque: $M_{stat} = | (m_1 \cdot l_1 - m_2 \cdot l_2) | \cdot 9.81 \text{ m/s}^2$
 (Calculate using the amount M_{stat})
 $M_{stat} < M_{stat \text{ perm.}}$

Maximum perm. loads

Type	HSE 28
J perm.	1.6 kg/s²
M_{stat} perm.	15 Nm

Accessories for HSE 28



Proximity switches

In easy-to-assemble version with LED display. For technical details see the »Accessories« catalogue.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



Grippers

For combineable grippers, see the chapter on »Grippers«.

Type	ID. no.
INW 80/S*	301 508 altern. 301 408

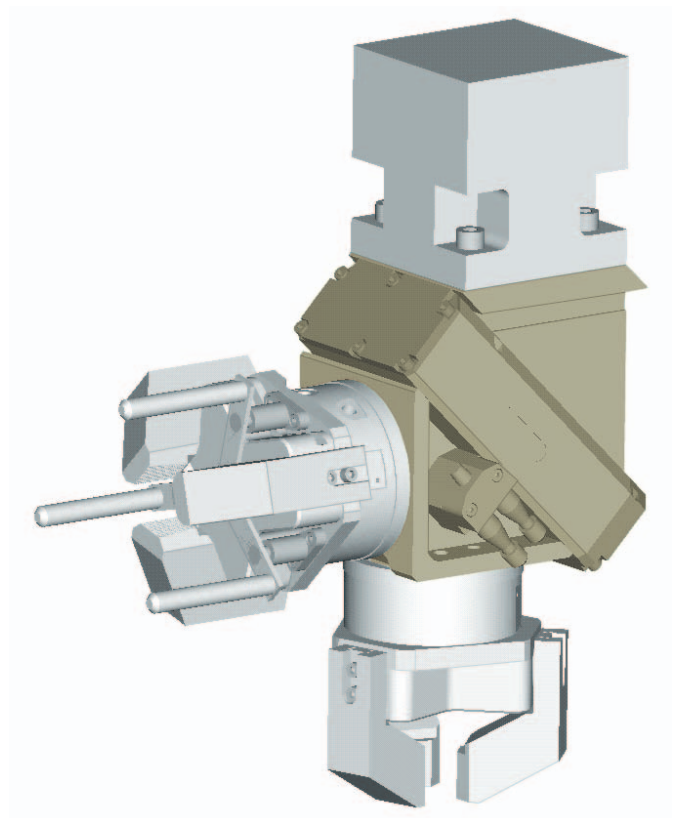
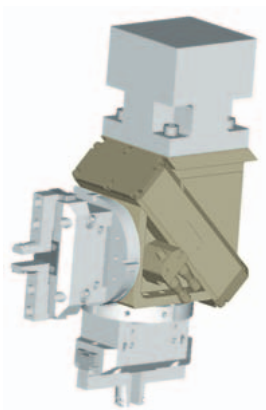
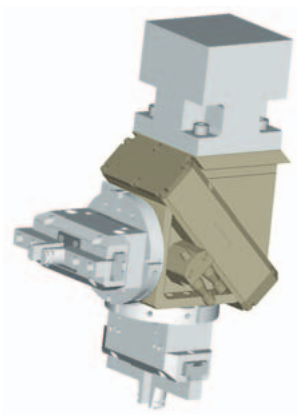
* S = Closer



HSE 28

Swivel Head Type HSK 40, hydraulic

HSK sample applications





Benefits

- Excellently suited to loading tools thanks to the horizontal/vertical swivel motion
- Integrated, hydraulic end position dampening on both sides
- Standard adapter plates for connection of many 2 and 3 finger grippers
- 4 air or oil feed-through and 4 electrical connection points for signal transmission integrated
- Integrated cable channel swivels also, so that there are no external hoses or cables
- Monitoring of the swivel movements via proximity switches
- Swivel head mounted on ball bearings, thus enabling higher axial and radial forces/torques
- High torque

Technical data

Method of functioning:

pinion and gear rods

Material:

housing is made from high-strength, hard-coated aluminium alloy and the functional components are from hardened steel

Actuation:

hydraulic, hydraulic oil filtered (10 µm), viscosity 32 mm²/s at 40 °C according to ISO VG

Operating pressure range:

from 20 - 30 bars, max. 40 bar

Maintenance:

permanently lubricated, re-lubrication necessary after 2,000,000 cycles

Installation position:

application-dependent

Operating temperature:

from 5 °C - 60 °C

Repeat accuracy:

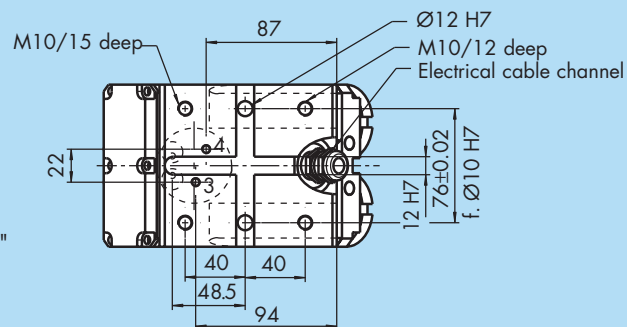
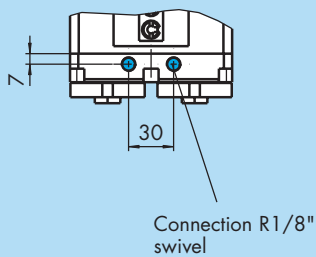
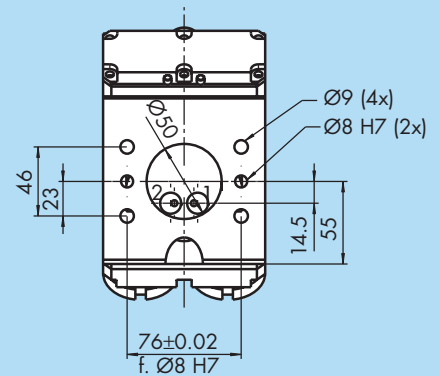
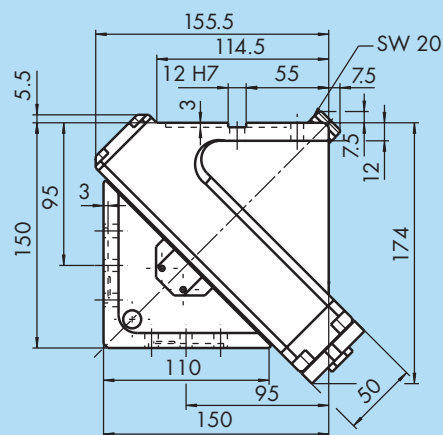
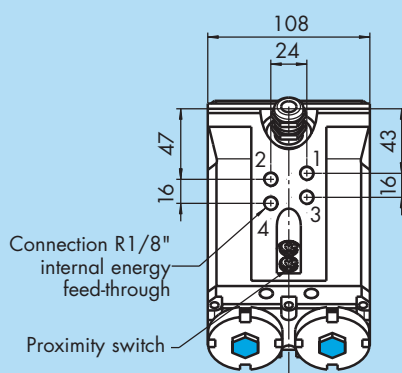
0.05 mm (0.1°)

Bearing load:

axial = 1300 N, radial = 63 Nm

Dimensions for HSK 40, hydraulic

● = Oil connection



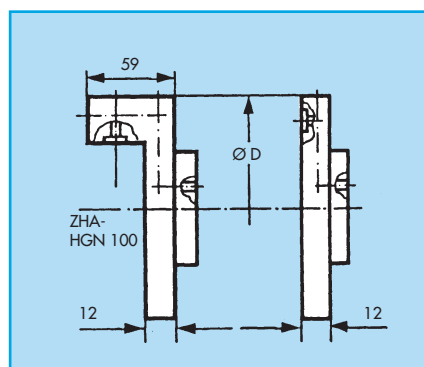
To quickly determine the swivel unit you require, we recommend that you use the SCHUNK calculation program SSE.
We will gladly do this for you upon request.

Swivel Head HSK 40

Type	HSK 40
ID. no.	308 102
Torque at 40 bar	40 Nm
Angle of traverse	180°
Number of energy feed-throughs (max. 50 bar)	4
Swivel time for 180°	1.8 s
Oil and air consumption for 180°	65 cm³
Mass	6 kg
Mass moment of inertia	180 kg cm²
Repeat accuracy	0.1°

Intermediate plate, type ZPA/ZPR

To secure various standard grippers to the swivel head

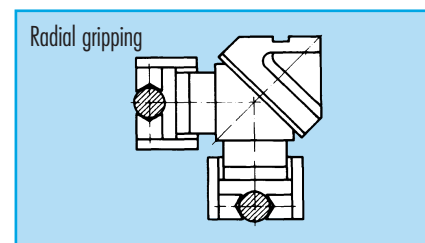
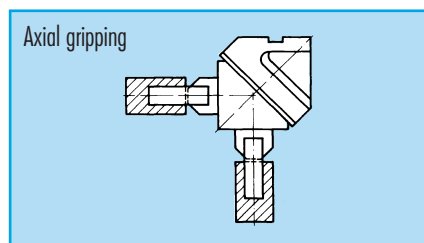


How to order:

The name of the desired intermediate plate comprises the type designation ZHA- or ZHR- and the name of the desired gripper type.

For example: ZHA-HGN 80, ID. no. 370 213

Swivel head with 2-finger gripper



Suitable for gripper types	HGN 80	HGN 100	HZN 80	HZN 100
Dimension D	105	105	105	105
ZPA... ID. no. for axial attachment	308 320	308 321	308 323	308 324
ZPR... ID. no. for radial attachment	308 411	308 412	—	—

Further adapters available upon request

System modules and further accessories for HGH



Swivel units

Combineable swivel units are featured on Pages 40-43.



Special solutions

We can quickly supply cost-effective custom solutions, customised fingers, attachment plates and complete units to suit your specialised requirements.



Grippers

Combineable grippers are featured on Pages 11-39.



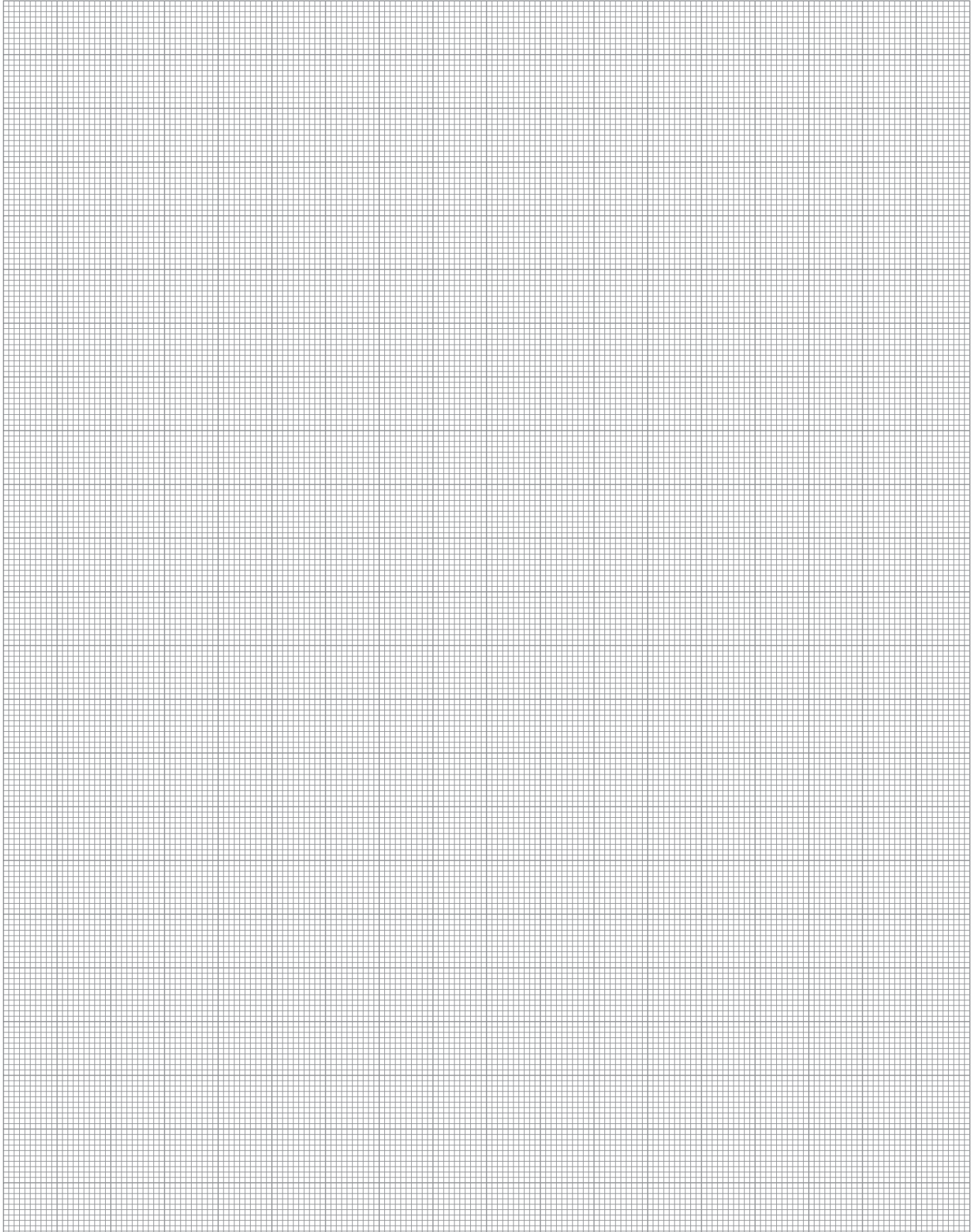
Further accessories

For gripper pads to increase friction factors, pressure maintenance valves or distributors for proximity switches, see the »Accessories« catalogue.

Note

Please note that the lifespan of these units can be reduced considerably if they are used in extreme conditions (e.g. where coolant is used or dust from casting or grinding processes is present). We cannot be held responsible in such cases. Solutions do exist for many problems — please contact us to find out more.

Notes





Chuck Jaws



Toolholding Systems



Automation



Stationary Clamping Systems



Lathe Chucks



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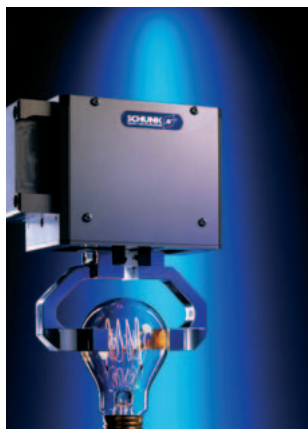
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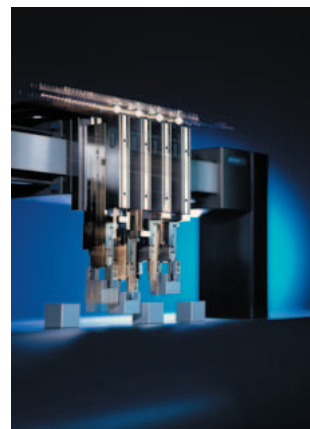
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