

BOSCHERT

PRODUKTKATALOG PRODUCT CATALOG

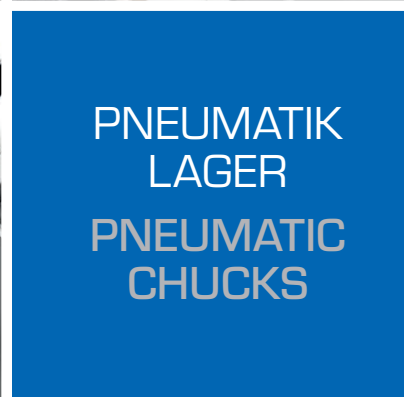
MANUELLE
KLAPPLAGER
SAFETY
CHUCKS



SCHIEBE-
KLAPPLAGER
SLIDING
CHUCKS



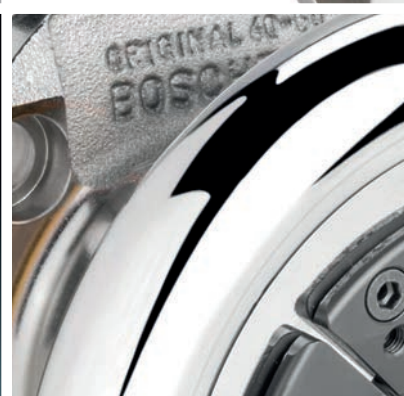
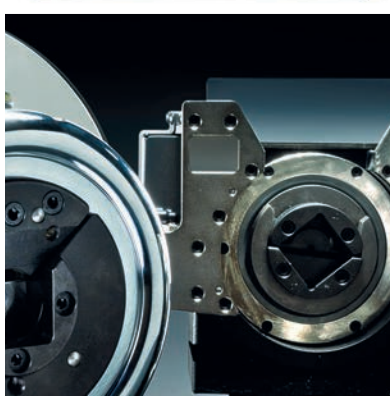
PNEUMATIK
LAGER
PNEUMATIC
CHUCKS



STEUERUNGEN
CONTROLS



BREMSEN
BRAKES



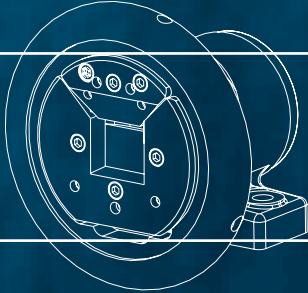
BOSCHERT
ORIGINAL

Content



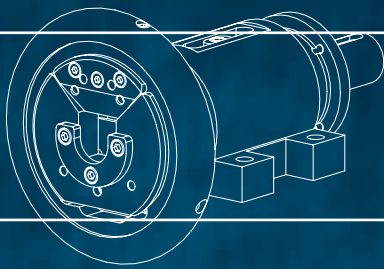
The Manufacturer

Safety Chucks



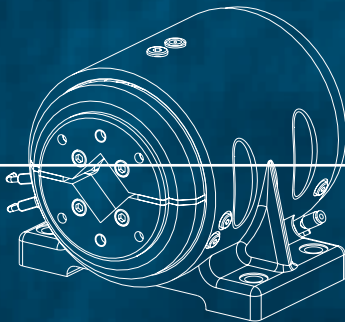
Sliding-Chucks

Automatic Chucks



Safety & Assembly Test Certificate

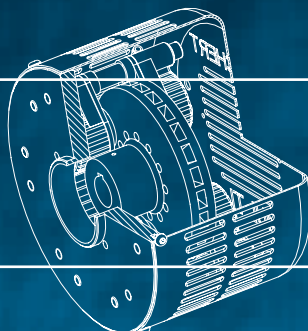
Brakes



Clutches

Options

Accessoire



Special

Measure & Tolerance

Contact



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certificate no. DP 23061 dated 2023-09-01
--

Translation

In any case, the German original shall prevail.

DGUV Test Certificate

Name and address of the holder of the certificate: (customer)	Boschert GmbH & Co KG Mattenstr. 1 79541 Lörrach GERMANY
Product designation:	Automatic chuck
Type:	14-20 (Mini)/19-25/22-30/30-40/40-50/50-80
Testing based on:	GS-DP-01:10.2016 Principles for the testing and certification of printing and paper converting machines
Test report:	A 23030 612.17 - Vg/Ho Product key number: 900.2001
Further details:	Certification basis: Product Safety Act

The type tested complies with the test specified above.

The holder of the certificate is entitled to affix the DGUV Test mark shown overleaf to the products complying with the type tested.

The present certificate including the right to affix the DGUV Test mark is valid until: **2028-08-31**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.

DGUV Test mark



certificate no. DP 23060 dated 2023-09-01
--

Translation In any case, the German original shall prevail.

DGUV Test Certificate

Name and address of the
holder of the certificate:
(customer) Boschert GmbH & Co KG
Mattenstr. 1
79541 Lörrach
GERMANY

Product designation: **Automatic chuck**

Type: A40/A50/A80

Testing based on: EN 1010-1:2004+A1:2010 Safety of machinery – Safety requirements
for the design and construction of printing and paper converting
machines; Part 1: common requirements

Test report: A 23029
612.17 - Vg/Ho
Product key number: 900.2001

Further details:

The type tested meets the requirements specified in article 3 para. 1 of the German Product Safety Act. Thus, the type tested also complies with the provisions laid down in the directive 2006/42/EC (**Machinery**). The holder of the certificate is entitled to affix the DGUV Test mark shown overleaf to the products complying with the type tested.

The present certificate including the right to affix the DGUV Test mark is valid until: **2028-08-31**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.

Dipl.-Ing. Hans-Michael Porcher

DGUV Test mark



certificate
no. **DP 23062**
dated 2023-09-01

Translation In any case, the German original shall prevail.

DGUV Test Certificate

Name and address of the holder of the certificate: (customer) Boschert GmbH & Co KG
Mattenstr. 1
79541 Lörrach
GERMANY

Product designation: **Pneumatic chuck**

Type: P 30, P 40, P 50

Testing based on: EN 1010-1:2004+A1:2010 Safety of machinery – Safety requirements for the design and construction of printing and paper converting machines; Part 1: common requirements

Test report: A 23031
612.17 - Vg/Ho
Product key number: 900.2001

Further details:

The type tested meets the requirements specified in article 3 para. 1 of the German Product Safety Act. Thus, the type tested also complies with the provisions laid down in the directive 2006/42/EC (**Machinery**). The holder of the certificate is entitled to affix the DGUV Test mark shown overleaf to the products complying with the type tested.
The present certificate including the right to affix the DGUV Test mark is valid until: **2028-08-31**

Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification.

DGUV Test mark



The Manufacturer

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Boschert

Over 75 Years of partnership with our customers

Customer service, reliability, quality and flexibility are the foundation of our company for more than 75 years. As a customer you become a part of our team from the beginning. You have our complete attention to fulfill your requirements. We listen to you. We act, innovate, and react quickly.

Rest assured you have found the best source of knowledge for safety chucks. You can trust us to solve the technical problems of your application. You can expect our technicians and engineers to provide you with the best and safest solution for your application. We have decades of service at your command.

It is our goal to offer all our customers, all over the world, the best solution possible. This is the secret to our success for over half a century. We welcome you as a customer and invite you to join our team. We are the standard of the industry. We are the most renowned safety chuck manufacturer through out the world.

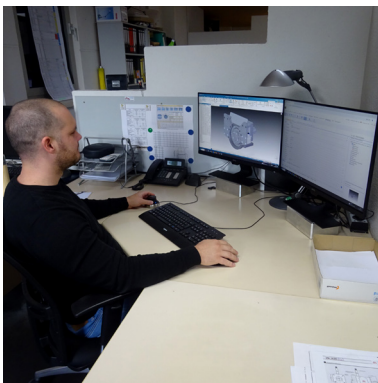
We are always available for you.





Fast, reliable and professional customer service

New orders are scheduled with the production department and a shipment date is established.



Our new computer aided design software helps to speed up solutions for customers special requirements.

Our parts are manufactured with the most modern equipment and technology available today.

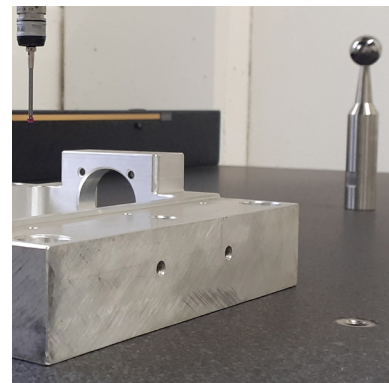


Constant precise quality is gained with CNC controlled machines.



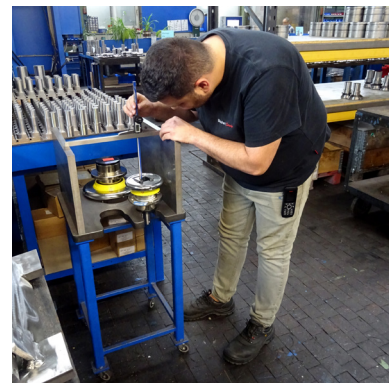
Prefabricated sub assemblies allow parts to be machined to customers specification providing better flexibility of delivery time.

Rigid quality control during production.



Final assembly of Boschert Safety Chucks.

The final step is the application of safety labels. From here the shipment of the Safety Chuck joins a world of Boschert Safety Chucks.



2.0 Overview Safety chucks



Model	max. beam weight / kg	max. torque / Nm	Square bar / mm	Standard square bar / mm	Typ C	Typ VT	Info
Mini	150	40	14-20	20	x		2.00
19-25	400	120	19-25	25	x		2.10
22-30	800	180	22-30	30	x	x	2.20
30-40	1600	350	30-40	40	x	x	2.30
40-50	2800	1100	40-50	50	x	x	2.40
50-80	7000	2350	50-80	80		x	2.50
80-120	12000	10000	80-120	120		x	2.70
120-180	22000	20000	120-180	180		x	2.80
170-230	64000	41000	170-230	230		x	2.90



Mini STO

Boschert foot mounted chuck without shaft end

Mini STW

Boschert foot mounted chuck with shaft end

Mini FLO

Boschert flange mounted chuck without shaft end

Mini FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 14 mm - 20 mm (0.5512" - 0.7874")

Standard square bar:

□ 20 mm (0.7874")

max. beam weight:

□ 150 kg (330 lbs)

max. torque:

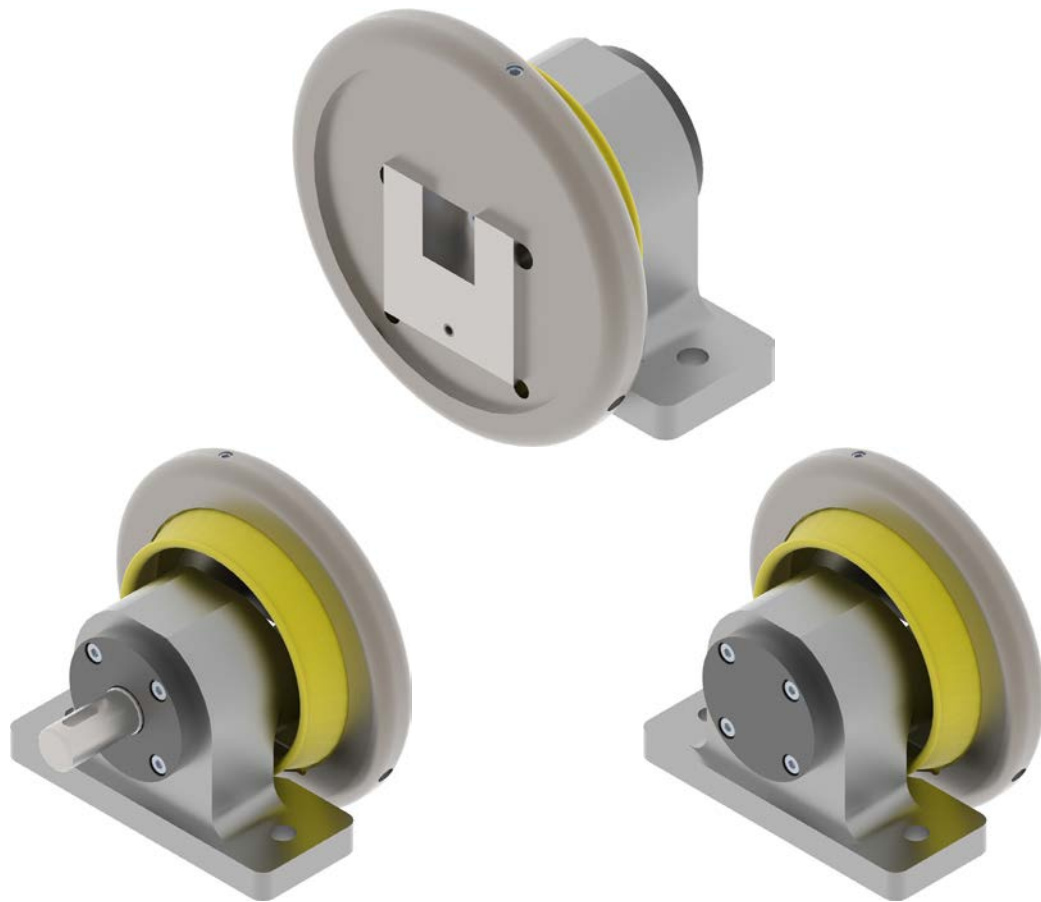
⌚ 40 Nm (29.5 ft·lb)

max. rpm:

1350 min⁻¹

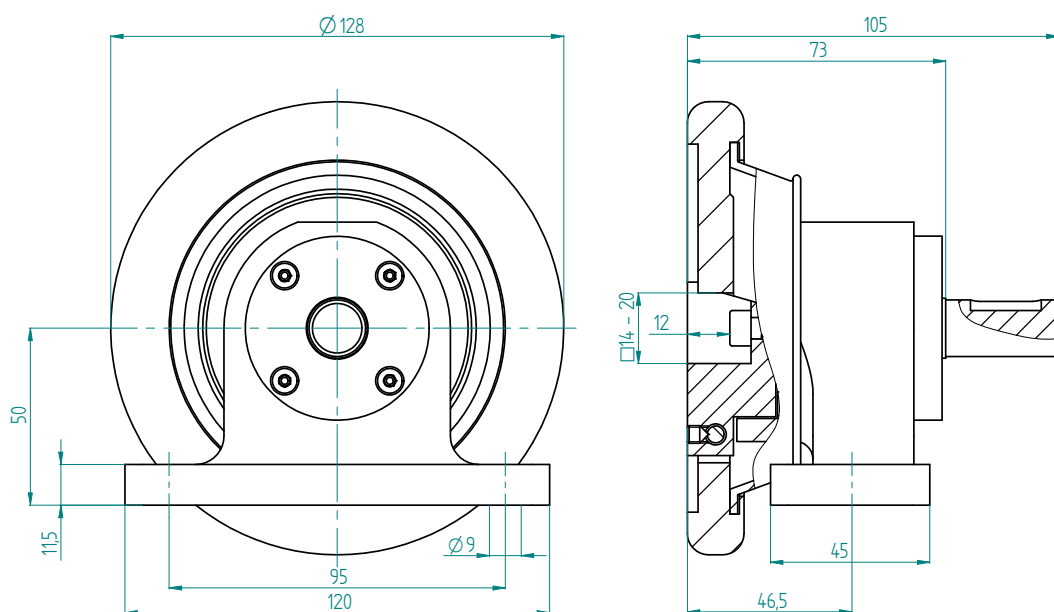
		Info
Type	C	2.54
Journal shaft type	square bar / triangle	2.03
Shaft end	standard	2.03
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck Mini type C



STW Mini
chuck with shaft end

STO Mini
chuck without shaft end



[Shaft end details page 2.03](#)

Boschert-Chuck Mini flange mounted

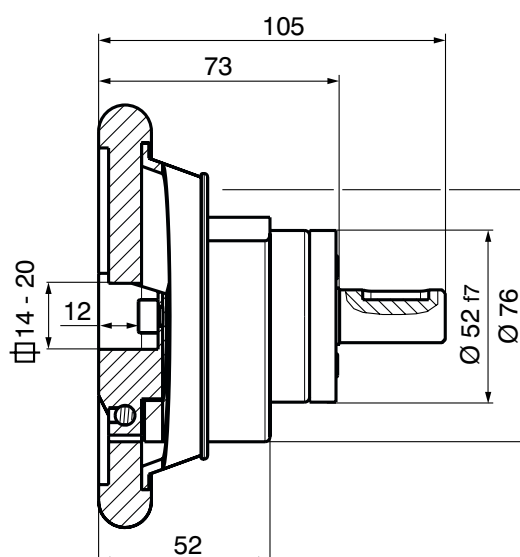
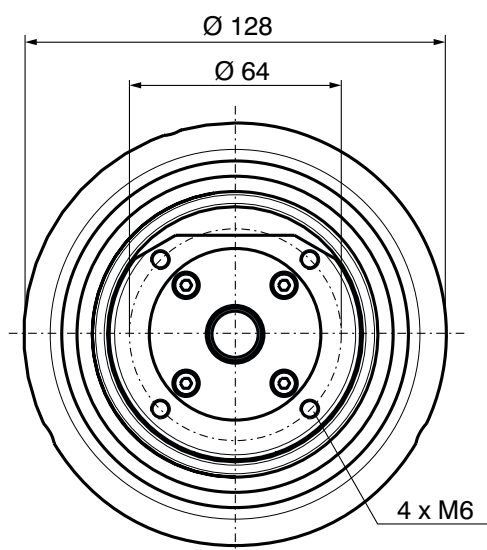


Boschert-Chuck Mini type C



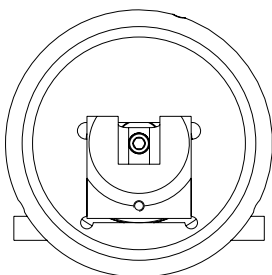
FLW Mini
chuck with shaft end

FLO Mini
chuck without shaft end

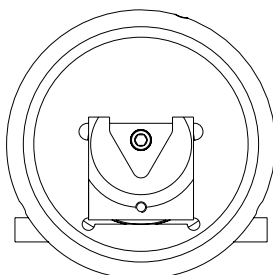


[Shaft end details page 2.03](#)

Journal shaft type

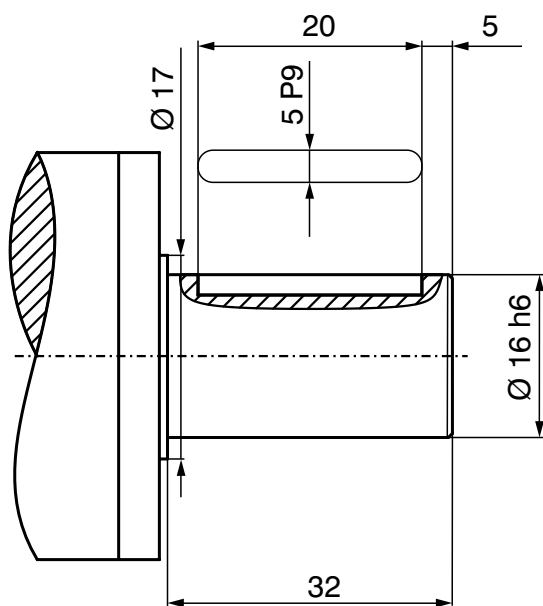


square bar
[Info: 11.10](#)



triangle
[Info: 11.11](#)

Shaft end



Standard shaft end

Special shaft ends per customer request

Max. shaft-dia.: Ø 17 mm
(special shaft without stop)

2.10 Boschert-Chuck 19-25



19-25 STO

Boschert foot mounted chuck without shaft end

19-25 STW

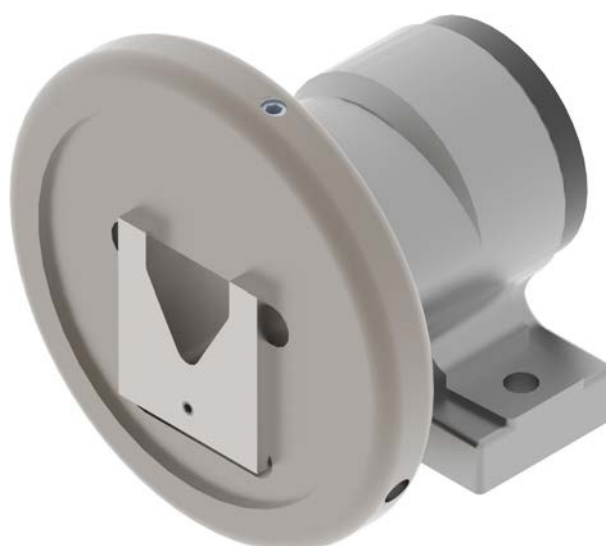
Boschert foot mounted chuck with shaft end

19-25 FLO

Boschert flange mounted chuck without shaft end

19-25 FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 19 mm - 25 mm (0.748" - 0.9843")

Standard square bar:

□ 25 mm (0.9843")

max. beam weight:

□ 400 kg (880 lbs)

max. torque:

⌚ 120 Nm (88.5 ft·lb)

max. rpm:

1350 min⁻¹

		Info
Typ	C	2.54
Journal shaft type	square bar / triangle	2.13
Shaft end	standard	2.13
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck 19-25 foot mounted

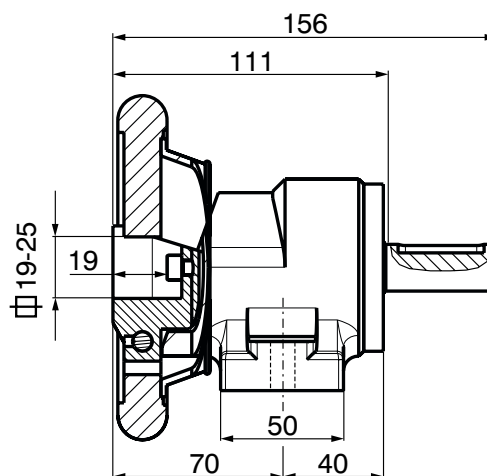
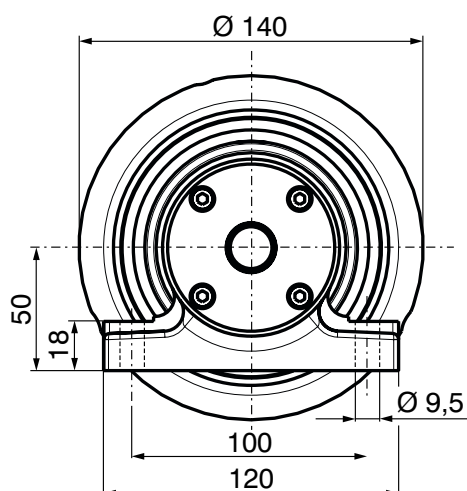


Boschert-Chuck 19-25 type C



STW 19-25
chuck with shaft end

STO 19-25
chuck without shaft end



[Shaft end details page 2.13](#)

Boschert-Chuck 19-25 flange mounted



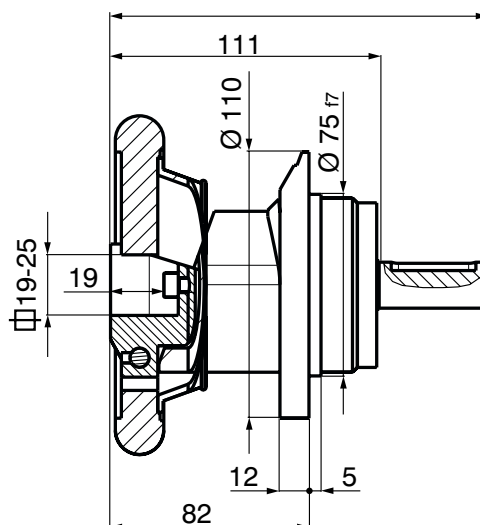
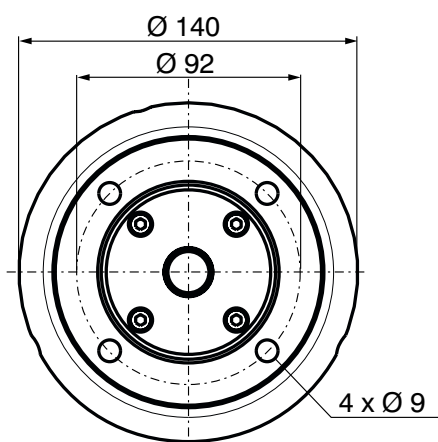
Boschert-Chuck 19-25 type C



FLW 19-25
chuck with shaft end

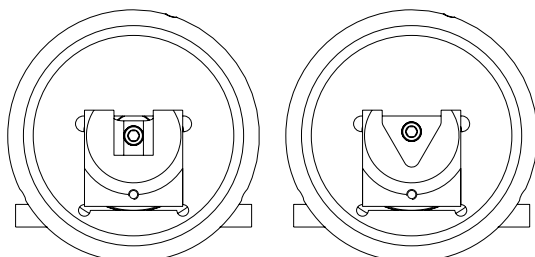


FLO 19-25
chuck without shaft end



[Shaft end details page 2.13](#)

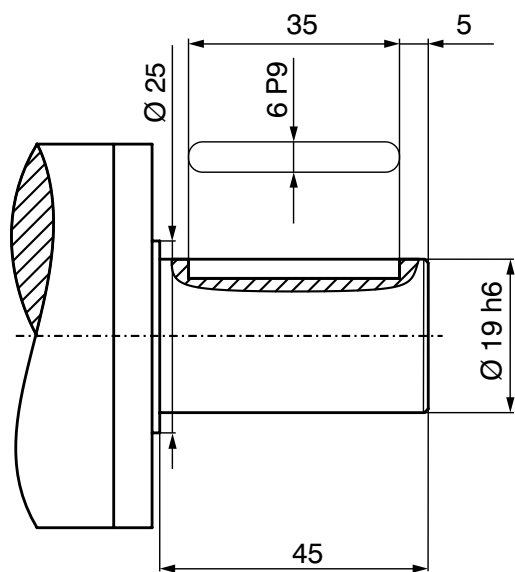
Journal shaft type



square bar
Info: [11.10](#)

triangle
Info: [11.11](#)

Shaft end



Standard shaft end

Special shaft ends per customer request

Max. shaft-dia.: Ø 25 mm
(special shaft without stop)

2.20 Boschert-Chuck 22-30



22-30 STO

Boschert foot mounted chuck without shaft end

22-30 STW

Boschert foot mounted chuck with shaft end

22-30 FLO

Boschert flange mounted chuck without shaft end

22-30 FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 22 mm - 30 mm (0.8661" - 1.1811")

Standard square bar:

□ 30 mm (1.1811")

Special square bar VT1/VT2:

on request

max. beam weight:

□ 800 kg (1760 lbs)

max. torque:

⤵ 180 Nm (132.8 ft·lb)

max. rpm:

1350 min⁻¹

		Info
Type	VT	2.55
	C	2.54
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.23
Shaft end	standard	2.23
Handwheel lock	HRV-S (left/right)	2.23
Special models	90° mounting	8.01
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck 22-30 foot mounted



Boschert-Chuck 22-30 type VT



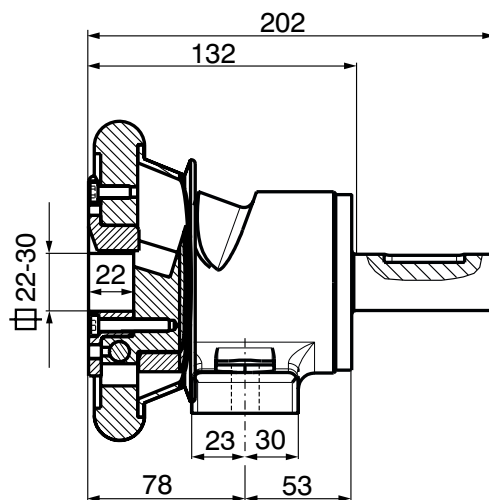
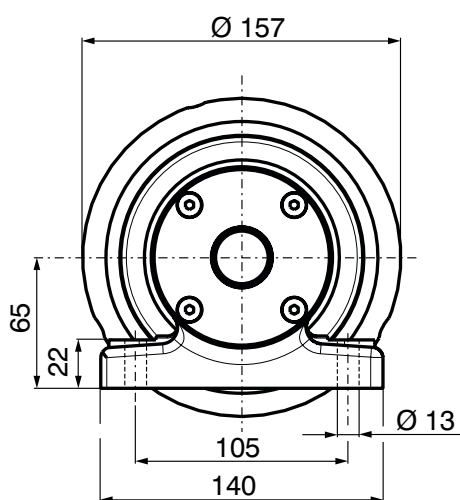
Boschert-Chuck 22-30 type C



STW 22-30
chuck with shaft end



STO 22-30
chuck without shaft end



[Shaft end details page 2.23](#)

Boschert-Chuck 22-30 flange mounted



Boschert-Chuck 22-30 type VT



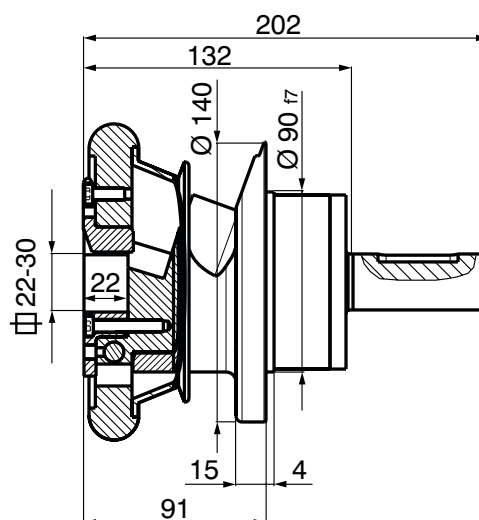
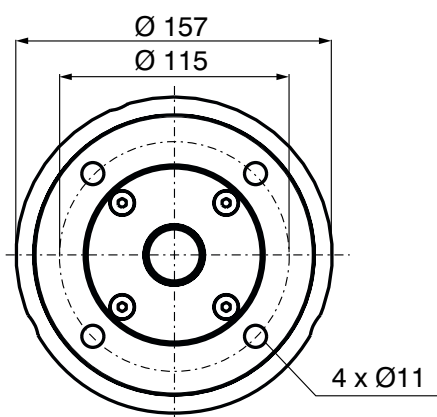
Boschert-Chuck 22-30 type C



FLW 22-30
chuck with shaft end



FLO 22-30
chuck without shaft end



[Shaft end details page 2.23](#)

Journal shaft type



VT 1

[Info 11.10](#)



VT 2

[Info 11.10](#)



VT 6

[Info 11.11](#)



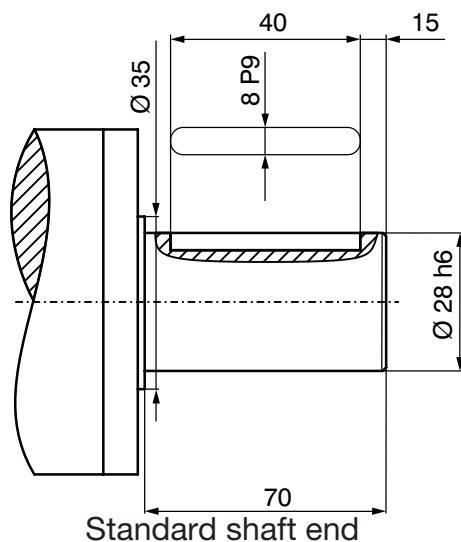
VT 7

[Info 11.12](#)

**Special square bar
VT1/VT2:**
on request

Note at VT2 and VT7 Chucks:
max. weight = 0,8 x catalogue value
max. torque = 0,7 x catalogue value
[Info 11.20](#)

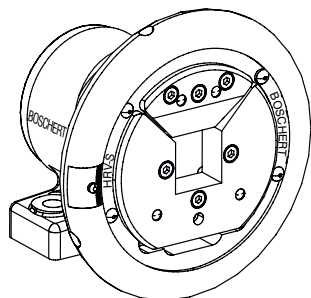
Shaft end



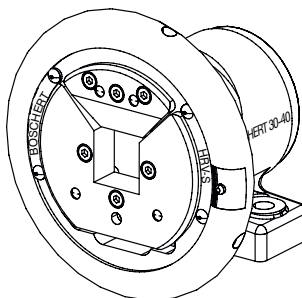
Special shaft ends per customer request

Max. shaft-dia.: Ø 35 mm
(special shaft without stop)

Handwheel lock



HRV-S left



HRV-S right

**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**

[Info 8.30](#)

[Info 8.31](#)

2.30 Boschert-Chuck 30-40



30-40 STO

Boschert foot mounted chuck without shaft end

30-40 STW

Boschert foot mounted chuck with shaft end

30-40 FLO

Boschert flange mounted chuck without shaft end

30-40 FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 30 mm - 40 mm (1.1811" - 1.5748")

Standard square bar:

□ 40 mm (1.5748")

Special square bar VT1/VT2:

on request

max. beam weight:

□ 1600 kg (3530 lbs)

max. torque:

↻ 350 Nm (258.1 ft·lb)

max. rpm:

1350 min⁻¹

		Info
Type	VT	2.55
	C	2.54
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.33
Shaft end	standard	2.33
Handwheel lock	HRV-S / HRV II (left/right)	2.33
Special models	90° mounting	8.01
	extended chuck	8.10
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck 30-40 foot mounted



Boschert-Chuck 30-40 type VT



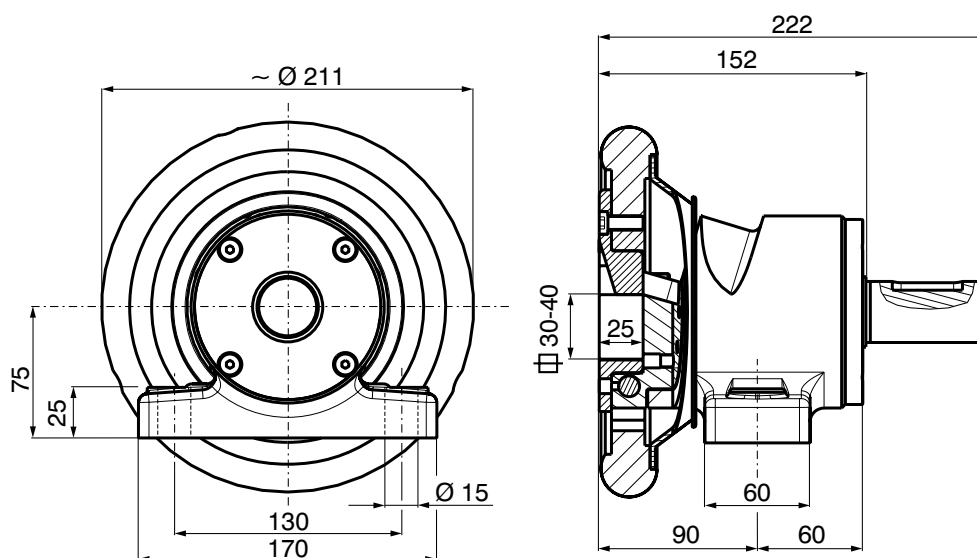
Boschert-Chuck 30-40 type C



STW 30-40
chuck with shaft end



STO 30-40
chuck without shaft end



[Shaft end details page 2.33](#)

Boschert-Chuck 30-40 flange mounted



Boschert-Chuck 30-40 type VT



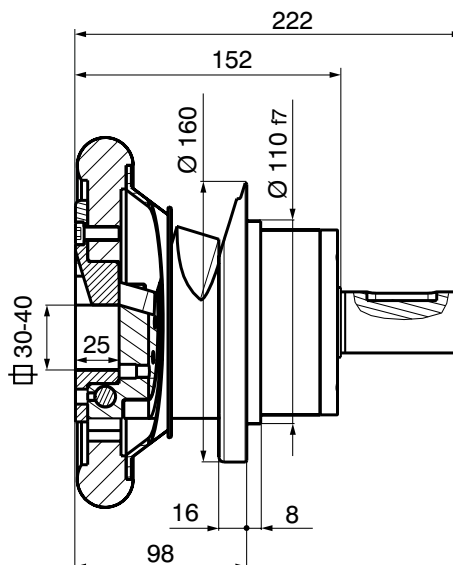
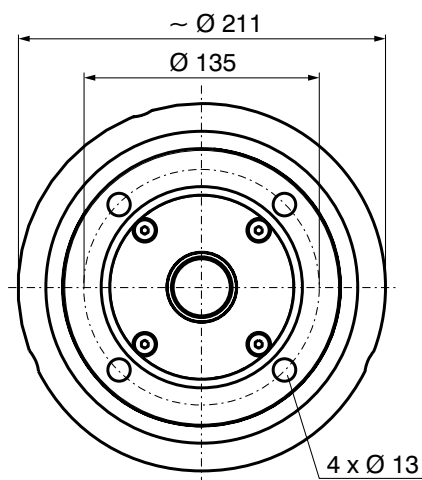
Boschert-Chuck 30-40 type C



FLW 30-40
chuck with shaft end



FLO 30-40
chuck without shaft end



[Shaft end details page 2.33](#)

Journal shaft type



VT 1

[Info 11.10](#)



VT 2

[Info 11.10](#)



VT 6

[Info 11.11](#)



VT 7

[Info 11.12](#)

**Special square bar
VT1/VT2:**
on request

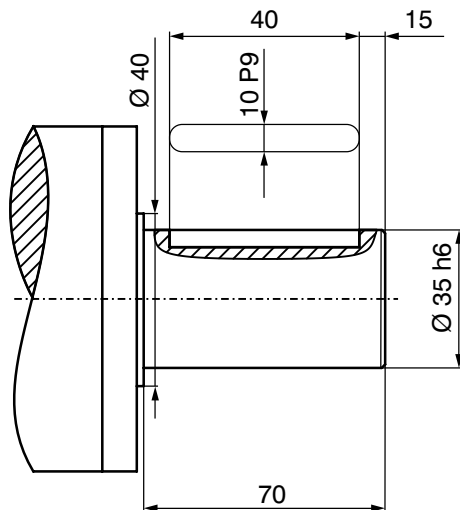
Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

[Info 11.20](#)

Shaft end

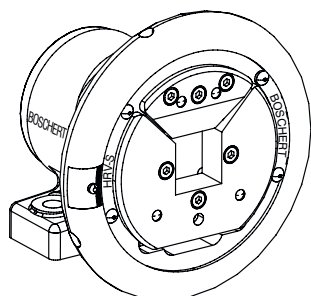


Standard shaft end

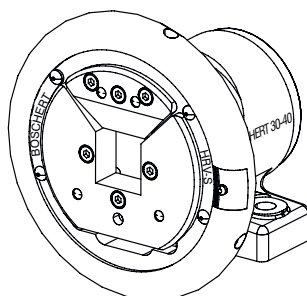
Special shaft ends per customer request

Max. shaft-dia.: Ø 50 mm
(special shaft without stop)

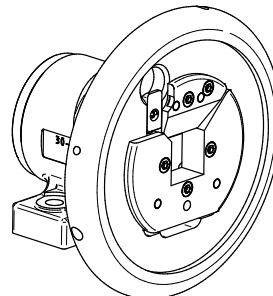
Handwheel lock



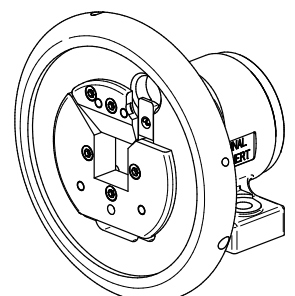
HRV-S left



HRV-S right



HRV II left



HRV II right

**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**

Handwheel-diameter on chucks with lock type II: ~ Ø 248 mm

[Info 8.30](#)

[Info 8.31](#)

2.40 Boschert-Chuck 40-50



40-50 STO

Boschert foot mounted chuck without shaft end

40-50 STW

Boschert foot mounted chuck with shaft end

40-50 FLO

Boschert flange mounted chuck without shaft end

40-50 FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 40 mm - 50 mm (1.5748" - 1.9685")

Standard square bar:

□ 50 mm (1.9685")

Special square bar VT1/VT2:

on request

max. beam weight:

□ 2800 kg (6170 lbs)

max. torque:

⤵ 1100 Nm (800 ft·lb)

max. rpm:

1350 min⁻¹

		Info
Type	VT	2.55
	C	2.54
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.43
Shaft end	standard	2.43
Handwheel lock	HRV-S / HRV II (left/right)	2.43
Special models	90° mounting	8.01
	extended chuck	8.11
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck 40-50 foot mounted



Boschert-Chuck 40-50 type VT



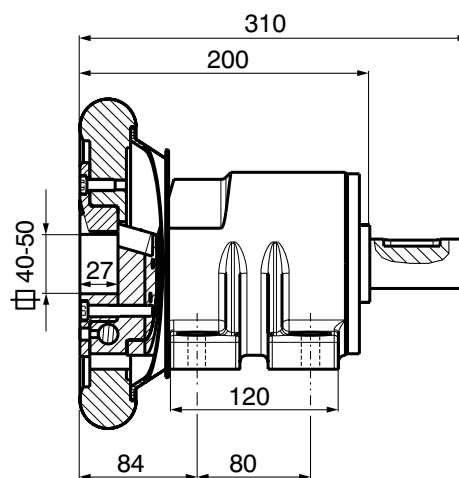
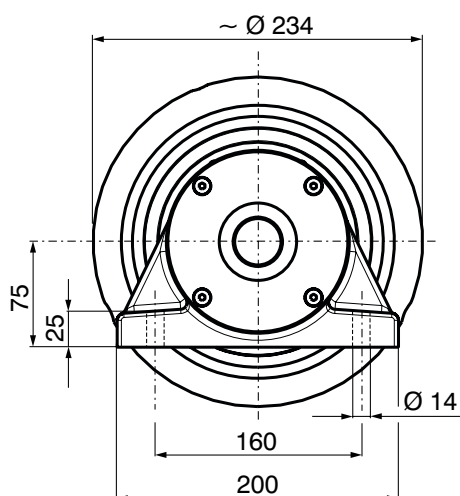
Boschert-Chuck 40-50 type C



STW 40-50
chuck with shaft end



STO 40-50
chuck without shaft end



[Shaft end details page 2.43](#)

Boschert-Chuck 40-50 flange mounted



Boschert-Chuck 40-50 type VT



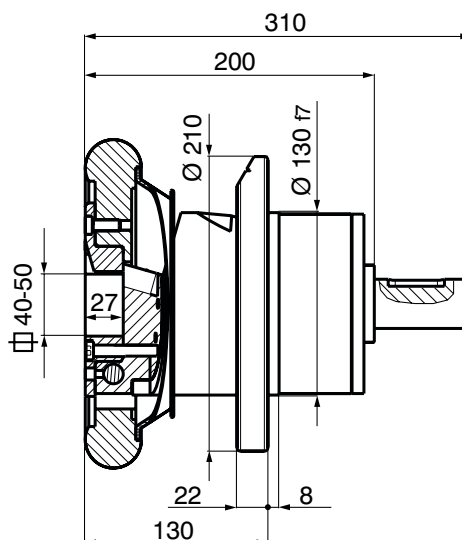
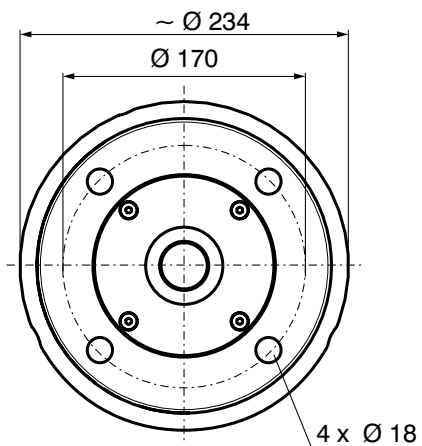
Boschert-Chuck 40-50 type C



FLW 40-50
chuck with shaft end



FLO 40-50
chuck without shaft end



[Shaft end details page 2.43](#)

Journal shaft type



VT 1

[Info 11.10](#)



VT 2

[Info 11.10](#)



VT 6

[Info 11.11](#)



VT 7

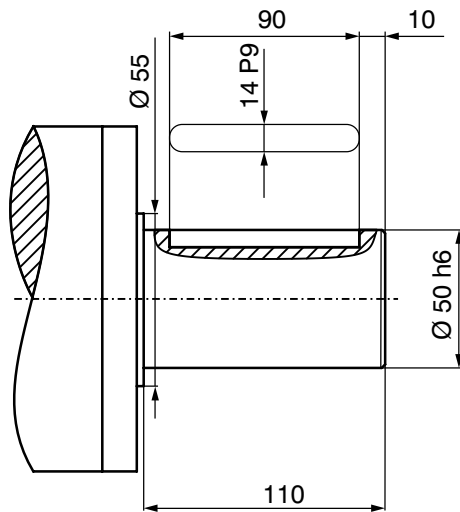
[Info 11.12](#)

**Special square bar VT1/
VT2:**
on request

Note at VT2 and VT7 Chucks:
max. weight = 0.8 x catalogue value
max. torque = 0.7 x catalogue value

[Info 11.20](#)

Wellenende

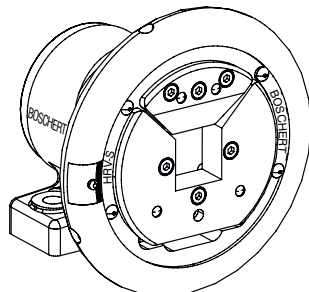


Standard shaft end

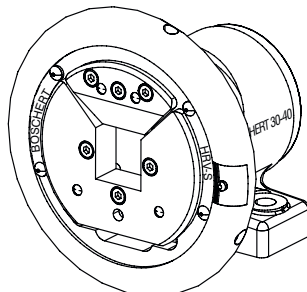
Special shaft ends per customer request

Max. shaft-dia.: Ø 65 mm
(special shaft without stop)

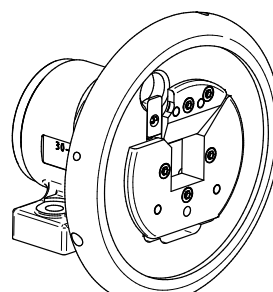
Handwheel lock



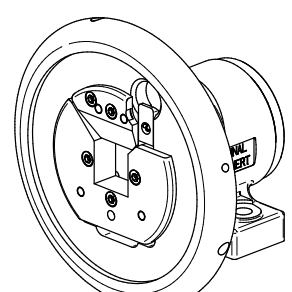
HRV-S left



HRV-S right



HRV II left



HRV II right

**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**
Handwheel-diameter on chucks with lock type II: ~ Ø 248 mm

[Info 8.30](#)

[Info 8.31](#)

2.50 Boschert-Chuck 50-80 foot mounted



50-80 STO

Boschert foot mounted chuck without shaft end

50-80 STW

Boschert foot mounted chuck with shaft end

50-80 FLO

Boschert flange mounted chuck without shaft end

50-80 FLW

Boschert flange mounted chuck with shaft end



Square bar:

□ 50 mm - 80 mm (1.9685" - 3.1496")

Standard square bar:

□ 80 mm (3.1496")

max. square bar VT2::

□ 63.5 mm (2.5")

Special square bar VT1/VT2:

on request

max. beam weight:

□ 7000 kg □ (15430 lbs)

max. torque:

⌚ 2350 Nm (1700 ft·lb)

max. rpm:

1350 min⁻¹

		Info
Type	VT	2.55
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.53
Shaft end	standard	2.53
Handwheel lock	HRV-S / HRV II (left/right)	2.53
Add. parts	brakes	6.00
	clutches	7.0

Boschert-Chuck 50-80 flange mounted

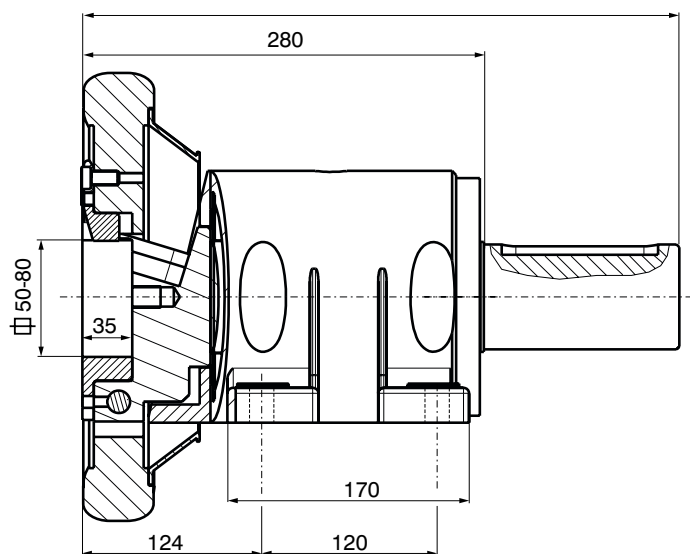
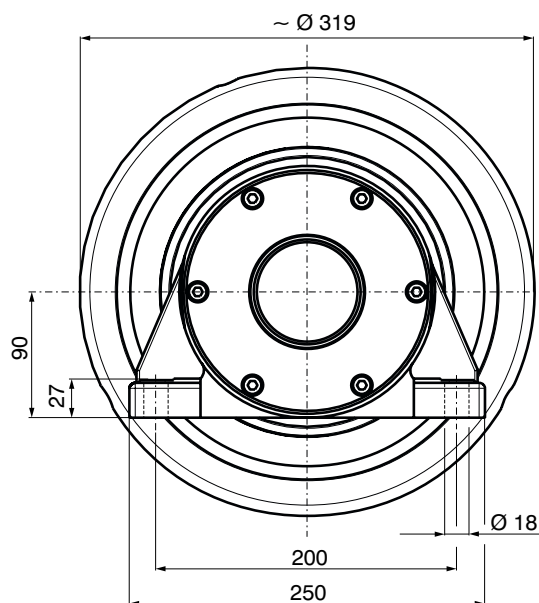


Boschert-Chuck 50-80 type VT



STW 50-80
chuck with shaft end

STO 50-80
chuck without shaft end



[Shaft end details page 2.53](#)

Boschert-Chuck 50-80 flange mounted



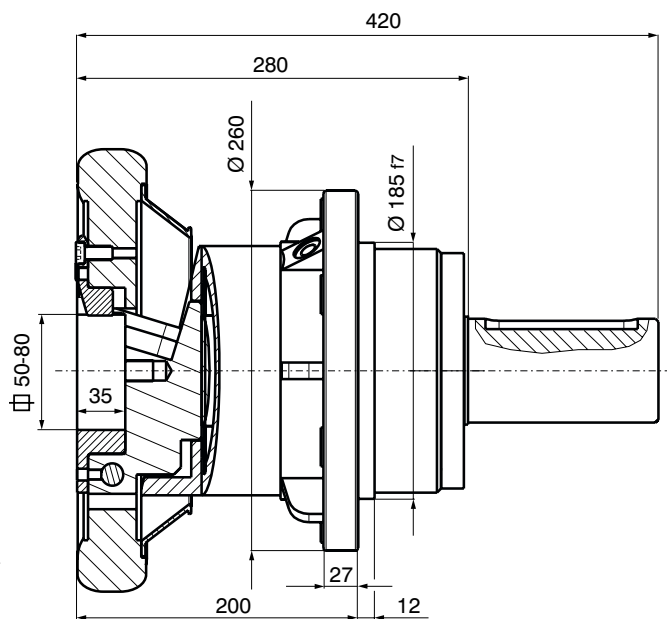
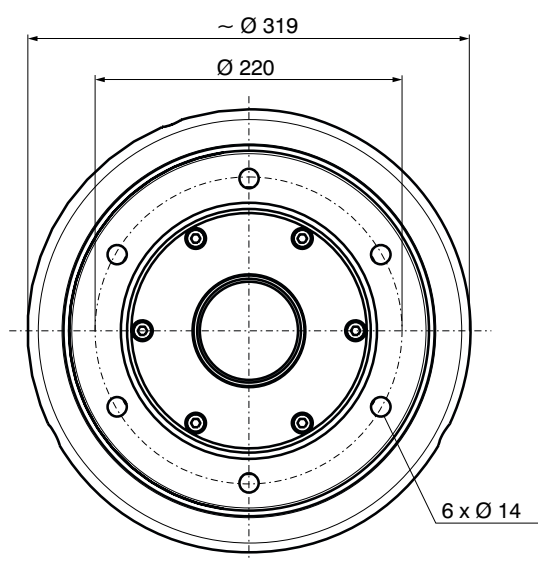
Boschert VT Lager 50-80



FLW 50-80
chuck with shaft end



FLO 50-80
chuck without shaft end



[Shaft end details page 2.53](#)

Journal shaft type



VT 1

[Info 11.10](#)



VT 2

[Info 11.10](#)



VT 6

[Info 11.10](#)



VT 7

[Info 11.12](#)

Special square bar

VT1/VT2:

on request

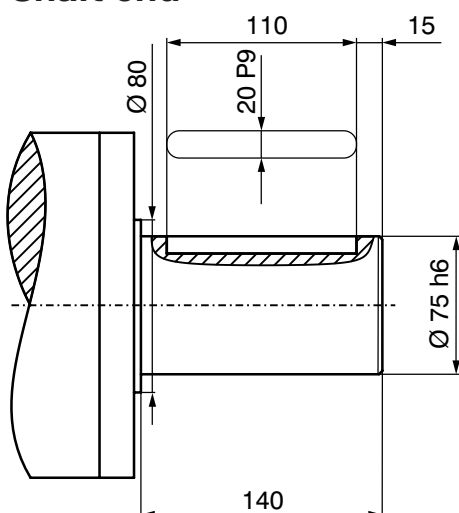
Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

[Info 11.20](#)

Shaft end

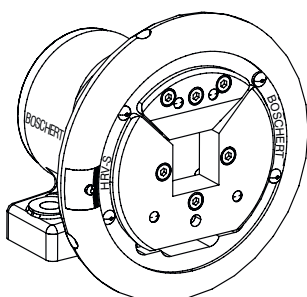


Standard shaft end

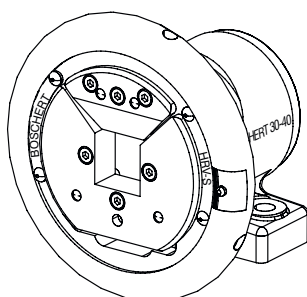
Special shaft ends per customer request

Max. shaft-dia.: Ø 80 mm
(special shaft without stop)

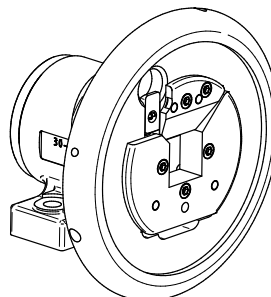
Handwheel lock



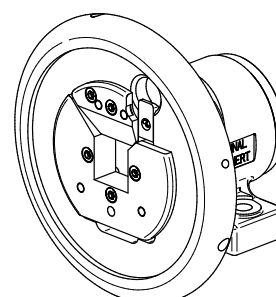
HRV-S left



HRV-S right



HRV II left



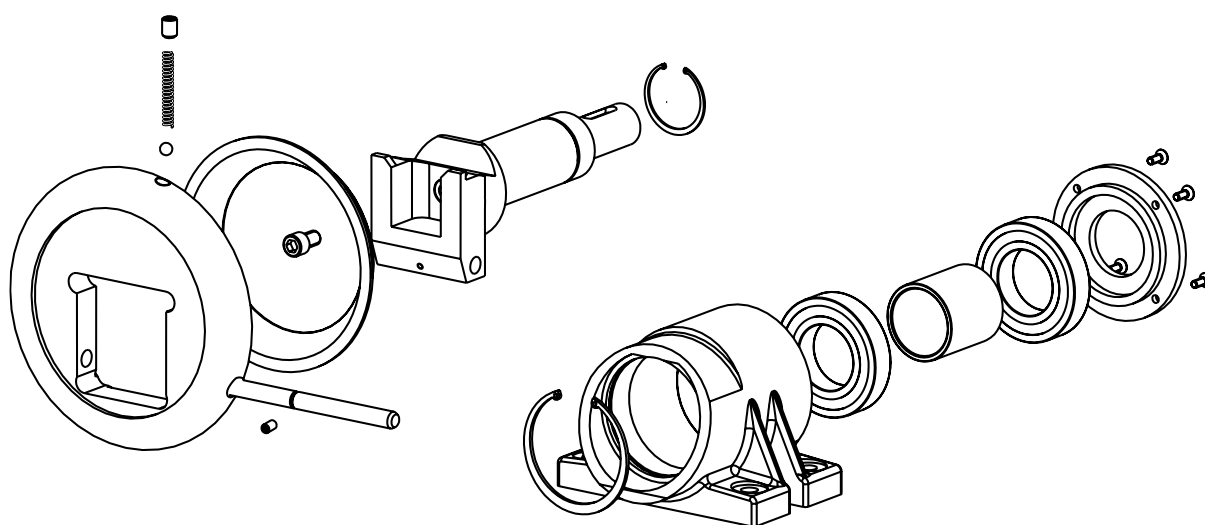
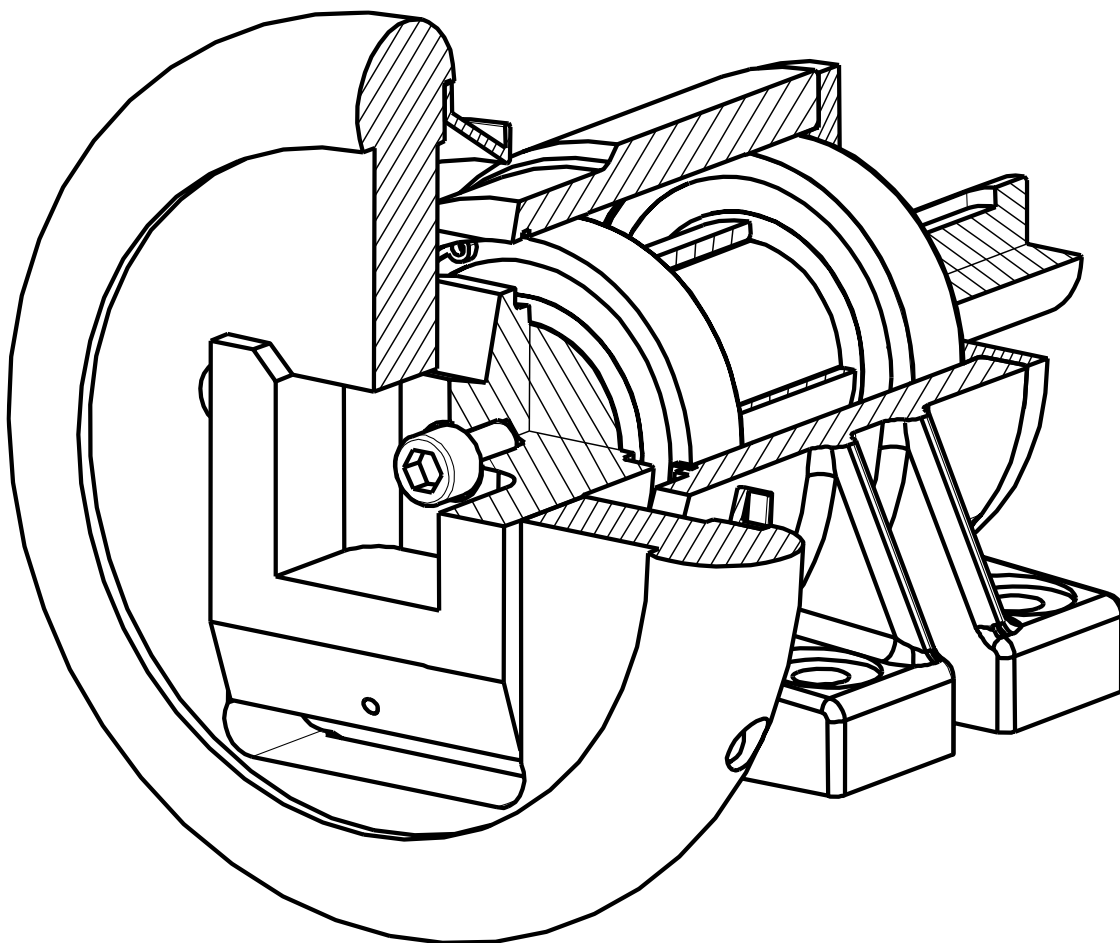
HRV II right

**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**

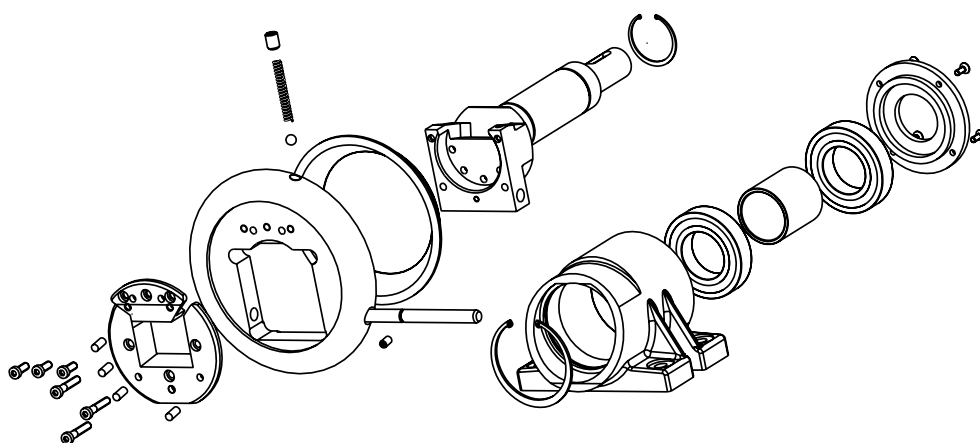
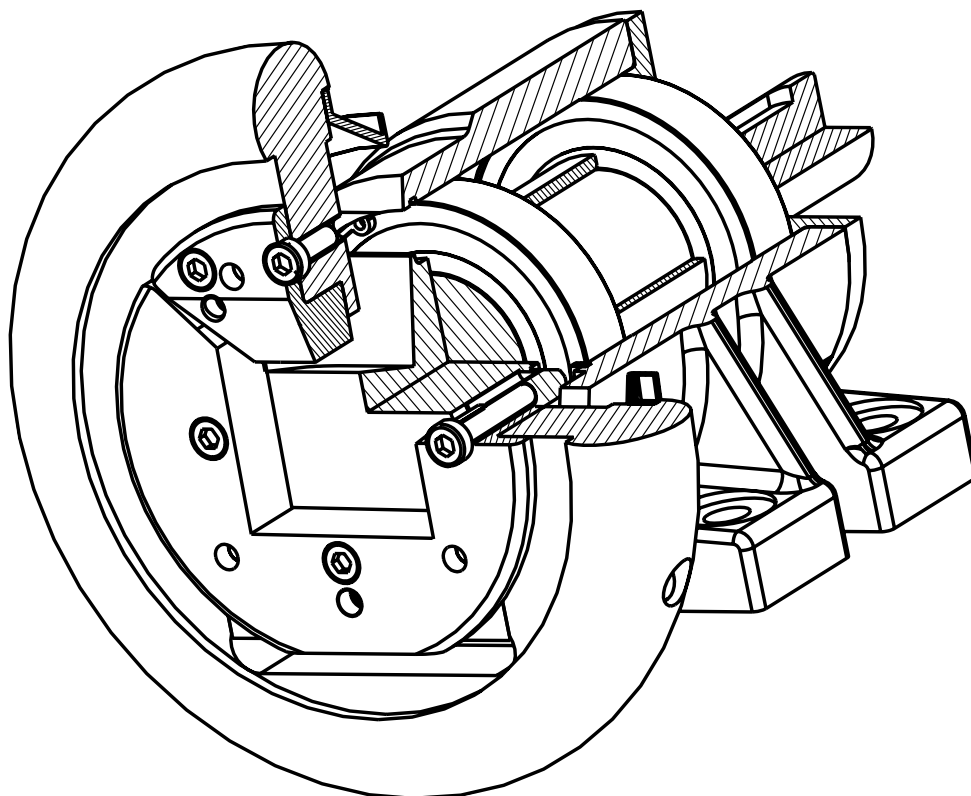
[Info 8.30](#)

[Info 8.31](#)

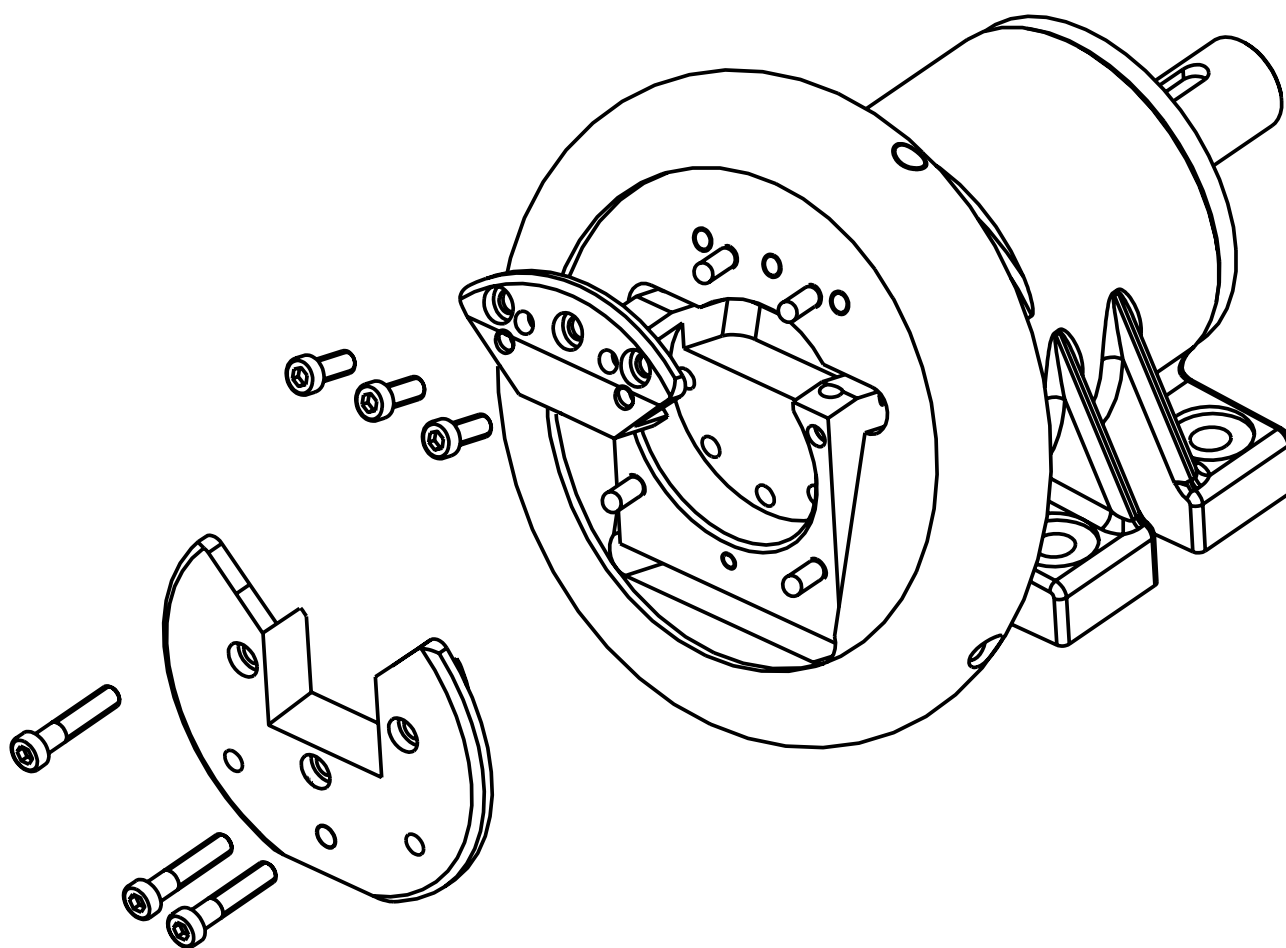
Construction Boschert-Chuck type C



Construction Boschert-Chuck type VT



2.60 Info wearing-parts



Attention!

Please consider that C-chucks subsequently cannot be fitted with VT-inserts. However it is possible to convert C-Chucks to VT-Chucks by changing the shafts and handwheels.

For Safety Chucks with special shaft ends we recommend the VT-version!

The demand for higher speed and bigger torque led to the development of the VT-insert. All safety chucks from size 22-30 up to 80-120 can be delivered from BOSCHERT with VT-inserts (wearing-parts). Chucks size from 120-180 up to 170-230 are provided with wear plates.

Important features of the VT-Chucks are:

- changing of VT wearing parts can be carried out in just a few minutes without removing the safety chuck from the machine. This is helpful by reducing down time.
- easy change to other square sizes by replacing the VT wearing parts in the same chuck.
- VT-parts can be supplied hardened by customers request or in soft condition, to protect the more expensive winding shafts.
- low stock-keeping costs of the VT-parts.
- possibility from one geometry to another (SQ. to VT6 or VT7).

The user of custom shaft ends should consider chucks with VT inserts. This will ensure a fast delivery of spare parts.

The VT-wearing parts are available from stock in most standard sizes, while, the delivery-time for shafts, especially with special shaft end, has to be arranged.

We recommend to put one or more sets of VT-wearing parts on stock to be used in case of an emergency.

Please consider that C-Chucks subsequently cannot be fitted with VT-inserts. However it is possible to convert C-Chucks to VT-Chucks by changing the shafts and handwheels.

Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

A 3D perspective view of a grey, cylindrical mechanical component, likely a motor or actuator. The component features a flange on the left side with a central hub and several mounting holes. The main body is cylindrical with a few small holes and a recessed area. It is mounted on a base with two vertical support legs.

		Info
Type	VT	2.55
Journal shaft type	VT1 / VT6	2.73
Shaft end	per customer specification	2.73

Boschert-Chuck 80-120 foot mounted



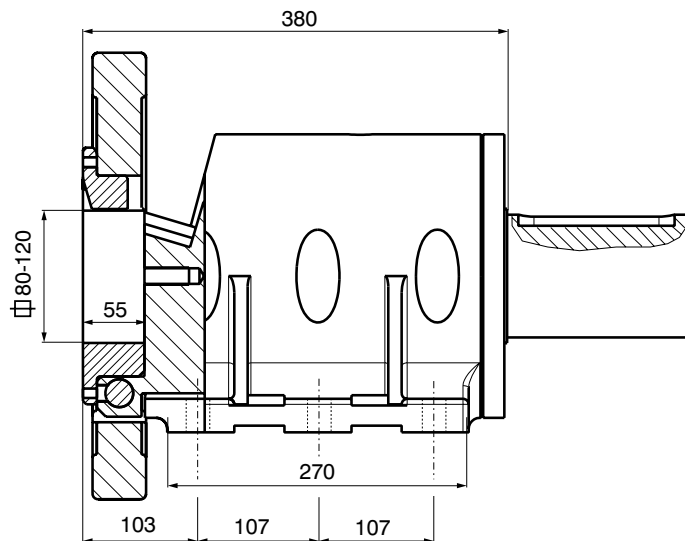
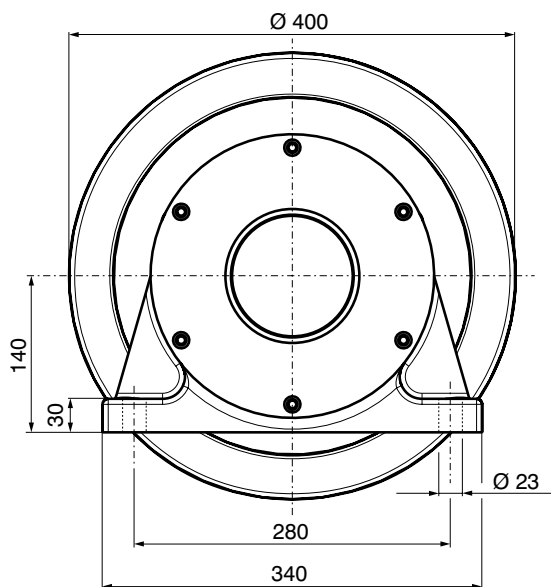
Boschert-Chuck 80-120 type VT



STW 80-120
chuck with shaft end



STO 80-120
chuck without shaft end



[Shaft end details page 2.73](#)

Boschert-Chuck 80-120 flange mounted

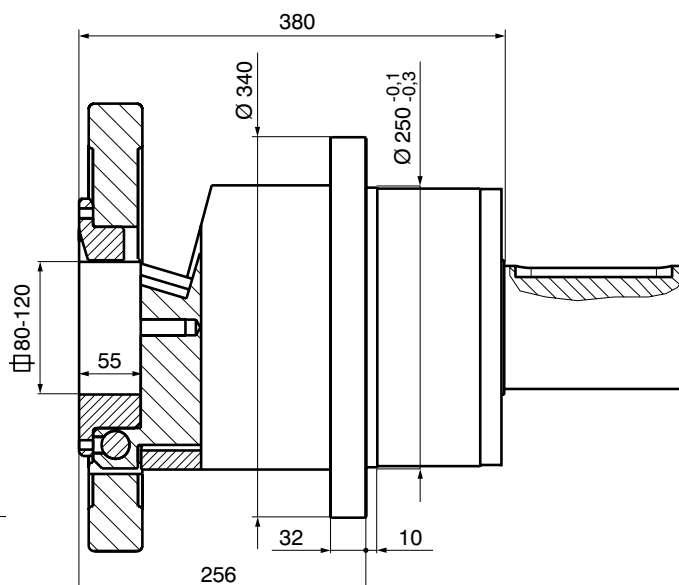
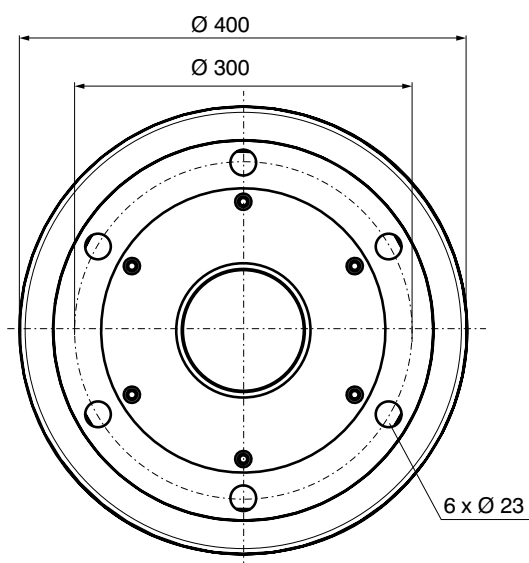


Boschert-Chuck 80-120 type VT



FLW 80-120
chuck with shaft end

FLO 80-120
chuck without shaft end



[Shaft end details page 2.73](#)

VT-insert

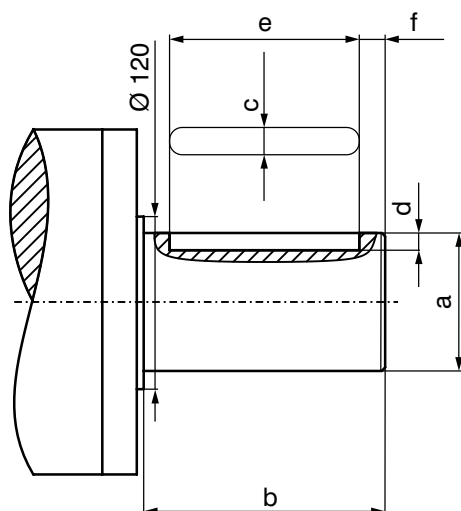


VT 1
[Info 11.10](#)



VT 6
[Info 11.11](#)

Shaft end



Max. shaft-dia.: Ø 120 mm
(special shaft without stop)

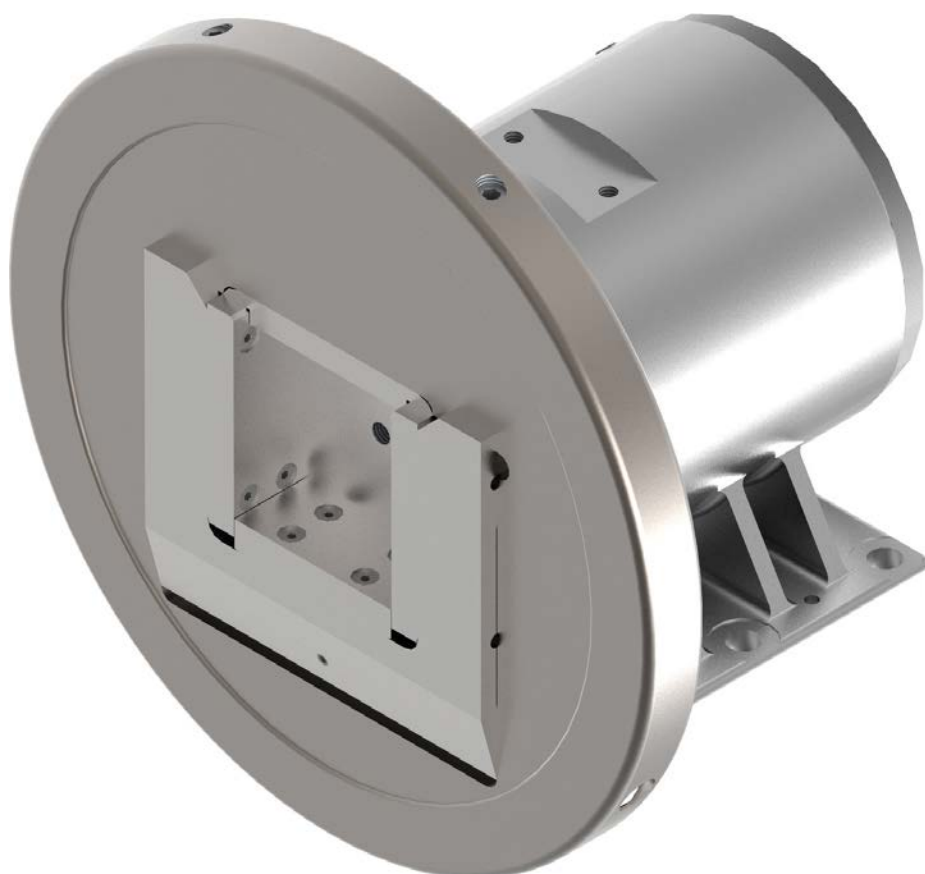
Shaft end per customer specification

a =		mm
b =		mm
c =		mm
d =		mm
e =		mm
f =		mm

2.80 Boschert-Chuck 120-180



- 120-180 STO** *Boschert* foot mounted chuck without shaft end
120-180 STW *Boschert* foot mounted chuck with shaft end
120-180 FLO *Boschert* flange mounted chuck without shaft end
120-180 FLW *Boschert* flange mounted chuck with shaft end



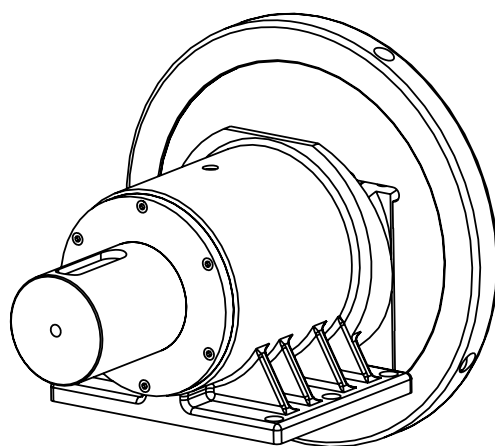
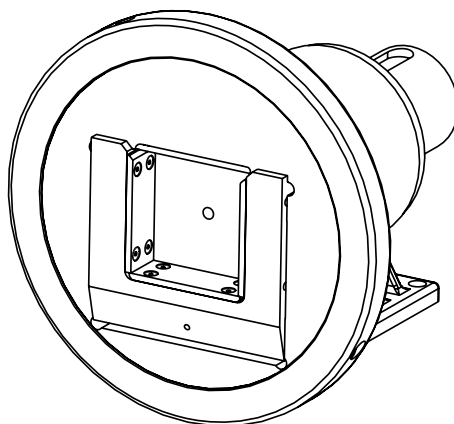
Square bar:	□ 120 mm - 180 mm	(4.7244" - 7.0866")
Standard square bar:	□ 180 mm	(7.0866")
max. beam weight:	□ 22000 kg □	(48500 lbs)
max. torque:	↻ 20.000 Nm	(14468 ft·lb)
max. rpm:	1350 min ⁻¹	

		Info
Journal shaft type	square bar	
Shaft end	per customer specification	2.83

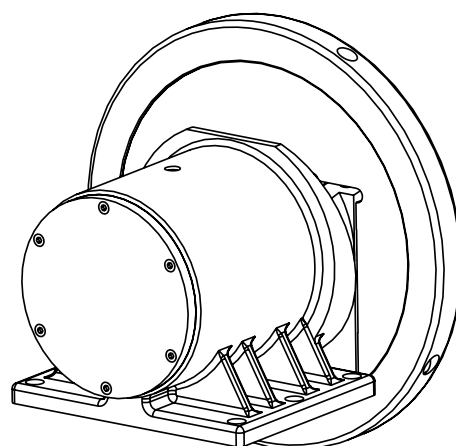
Boschert-Chuck 120-180 foot mounted



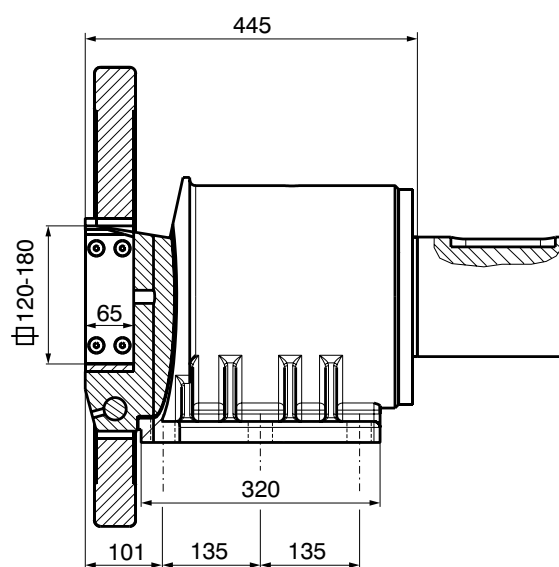
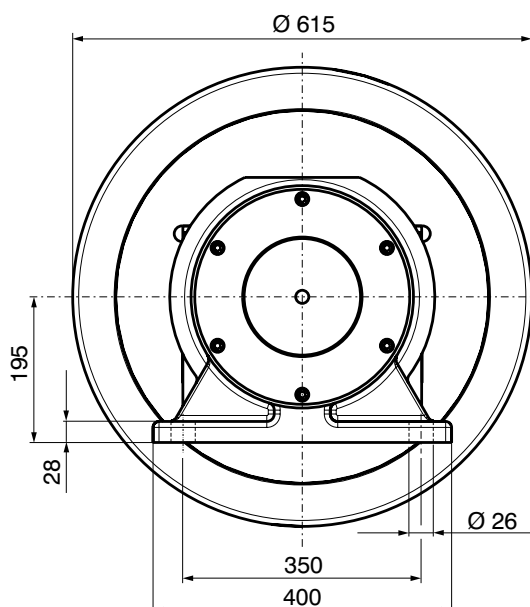
Boschert-Chuck 120-180 with wear plates



STW 120-180
chuck with shaft end



STO 120-180
chuck without shaft end

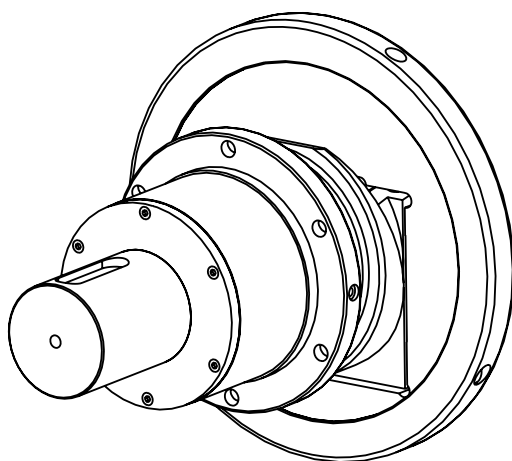
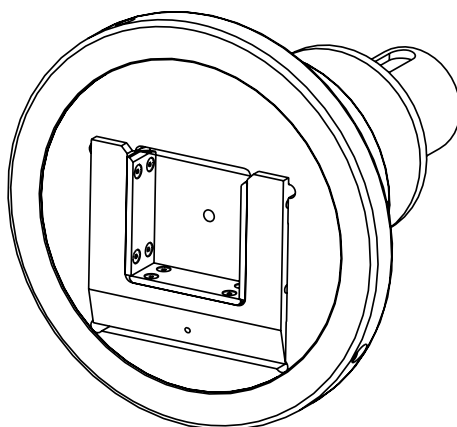


[Shaft end details page 2.83](#)

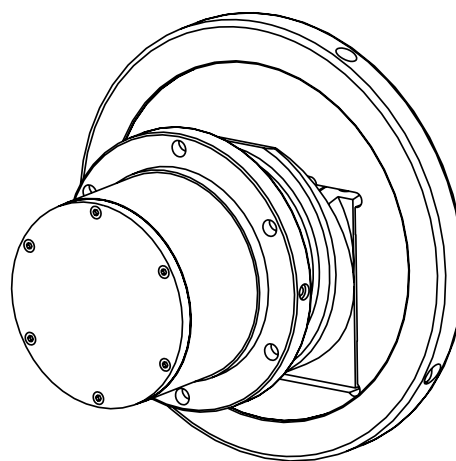
Boschert-Chuck 120-180 flange mounted



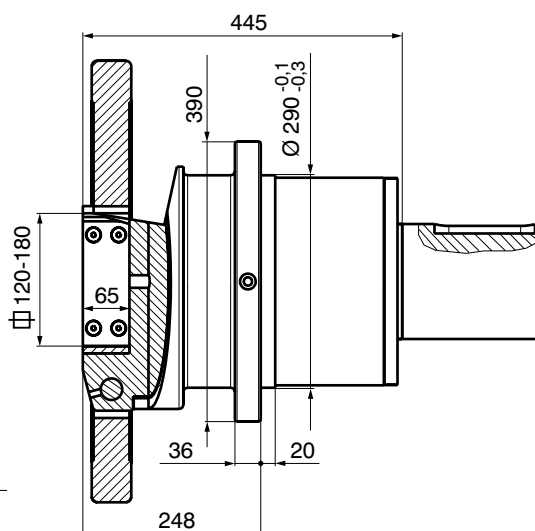
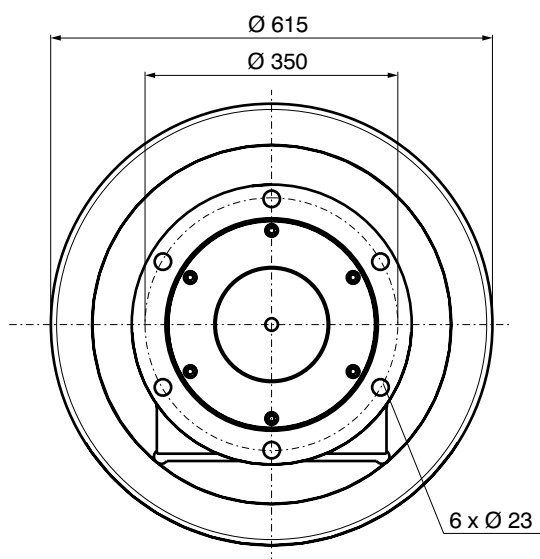
Boschert-Chuck 120-180 with wear plates



FLW 120-180
chuck with shaft end

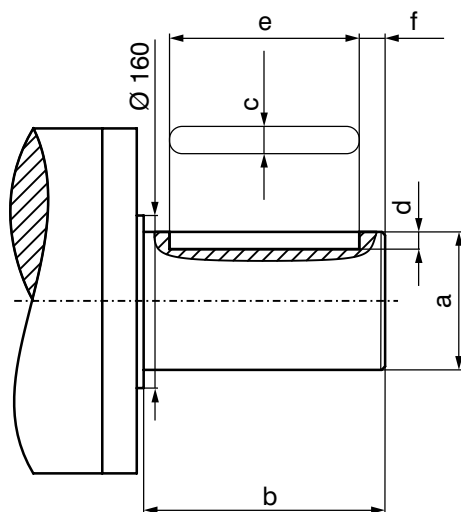


FLO 120-180
chuck without shaft end



[Shaft end details page 2.83](#)

Shaft end



Max. shaft-dia.: Ø 160 mm
(special shaft without stop)

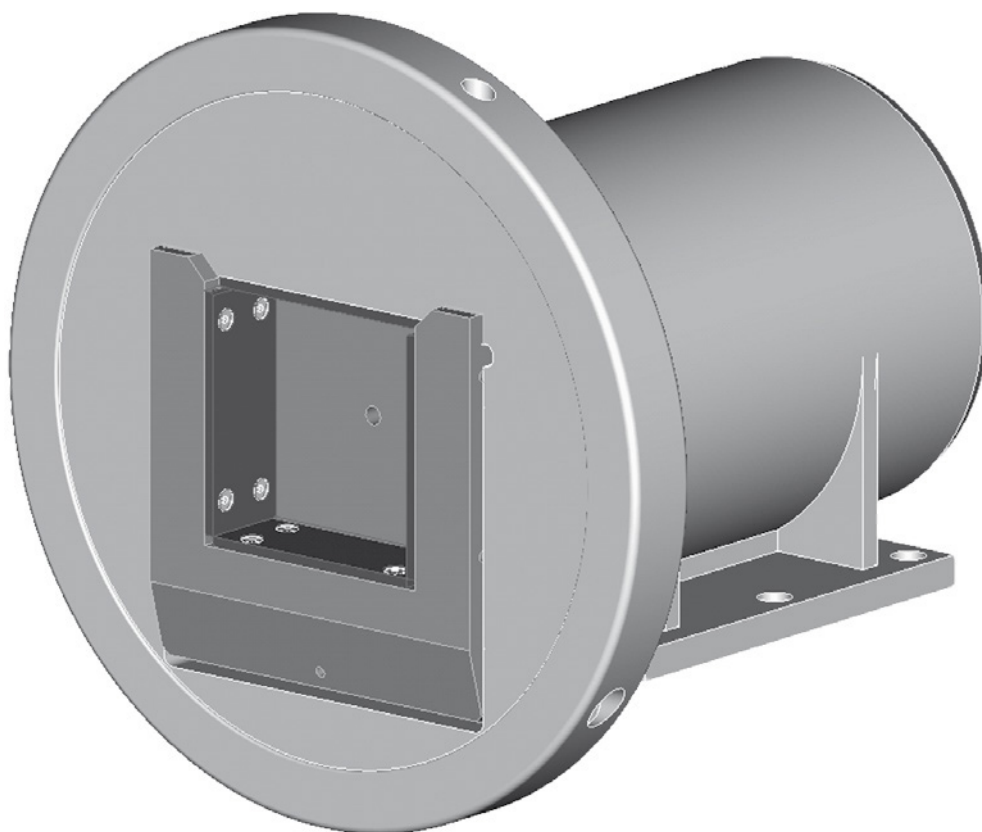
Shaft end per customer specification

a =		mm
b =		mm
c =		mm
d =		mm
e =		mm
f =		mm

2.90 Boschert-Chuck 170-230



- 170-230 STO** *Boschert* foot mounted chuck without shaft end
170-230 STW *Boschert* foot mounted chuck with shaft end
170-230 FLO *Boschert* flange mounted chuck without shaft end
170-230 FLW *Boschert* flange mounted chuck with shaft end



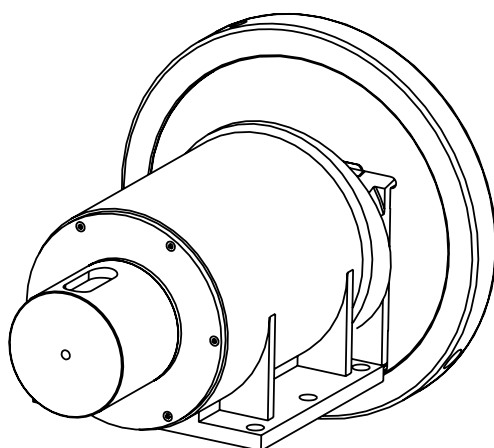
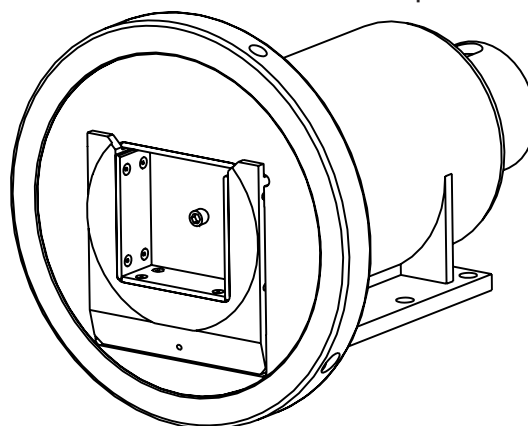
Square bar:	□ 170 mm - 230 mm	(4.7244" - 7.0866")
Standard square bar:	□ 230 mm	(7.0866")
max. beam weight:	□ 64000 kg □	(48500 lbs)
max. torque:	↻ 41.000 Nm	(14468 ft·lb)
max. rpm:	1350 min ⁻¹	

		Info
Journal shaft type	square bar	
Shaft end	per customer specification	2.93

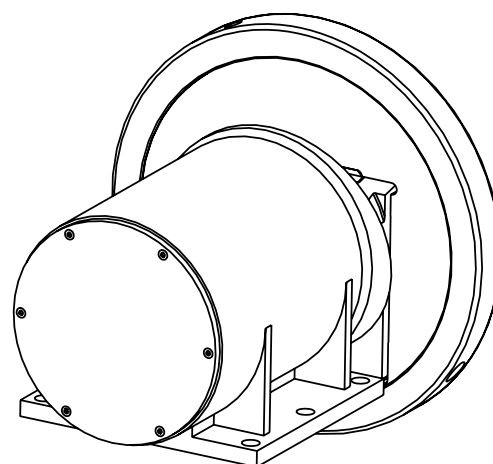
Boschert-Chuck 170-230 foot mounted



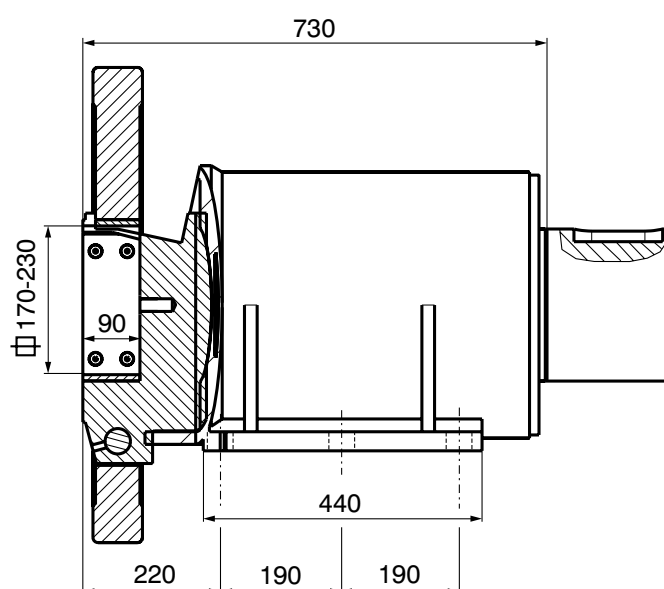
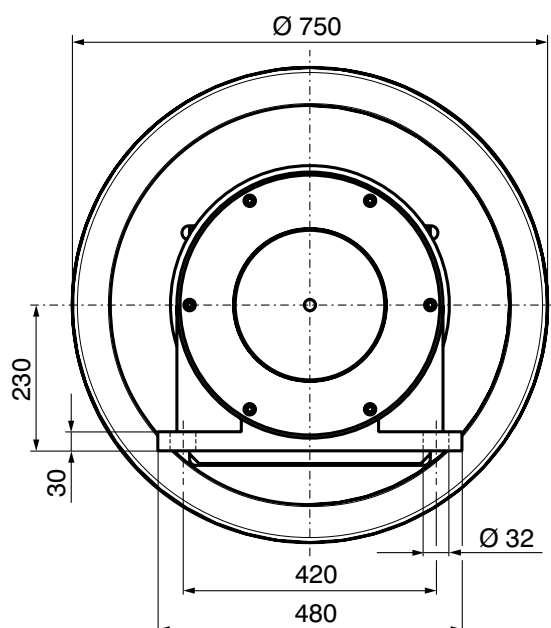
Boschert-Chuck 170-230 with wear plates



STW 170-230
chuck with shaft end



STO 170-230
chuck without shaft end

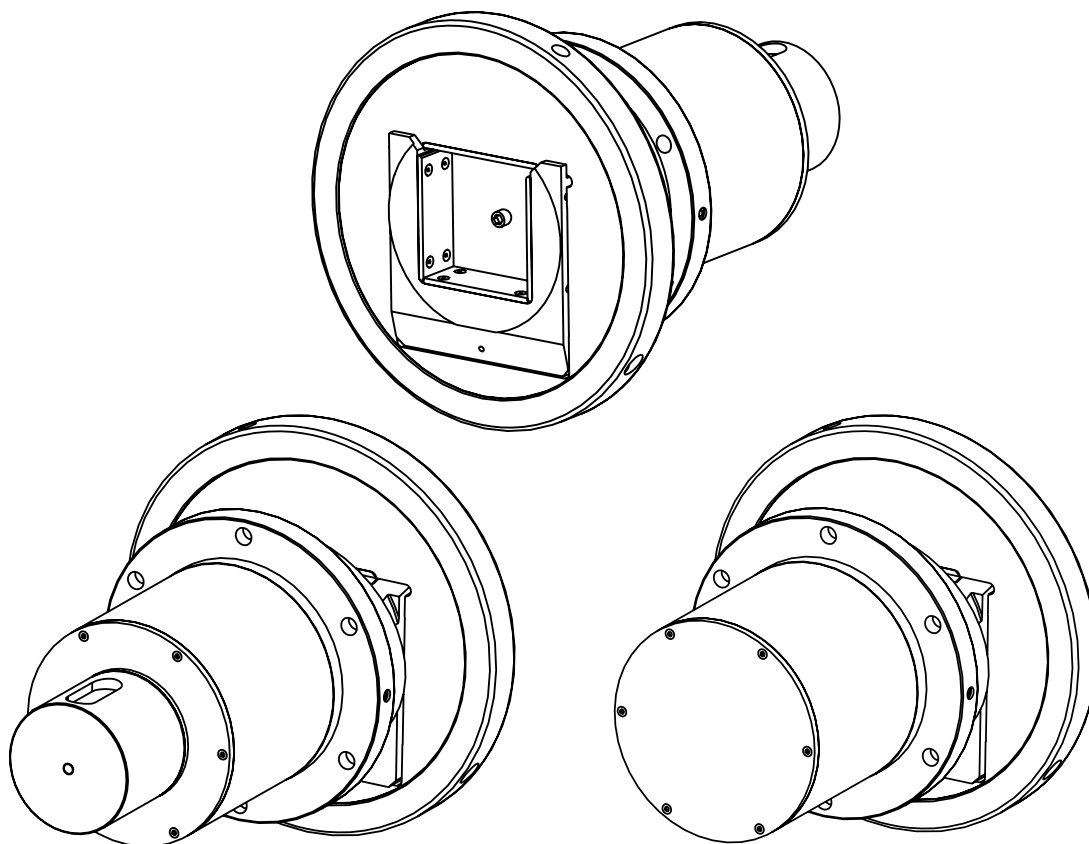


[Shaft end details page 2.93](#)

Boschert-Chuck 170-230 flange mounted

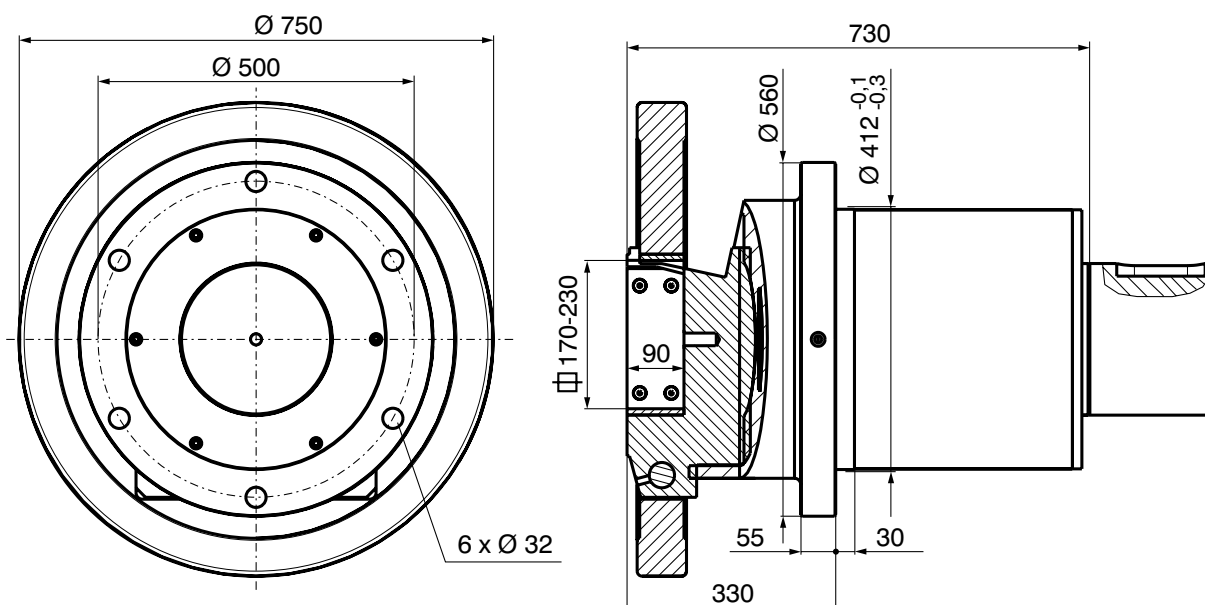


Boschert-Chuck 170-230 with wear plates



FLW 170-230
chuck with shaft end

FLO 170-230
chuck without shaft end

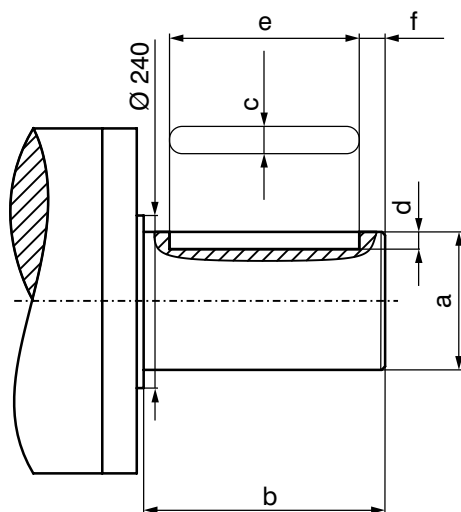


[Shaft end details page 2.93](#)

Boschert-Chuck 170-230 options



Shaft end

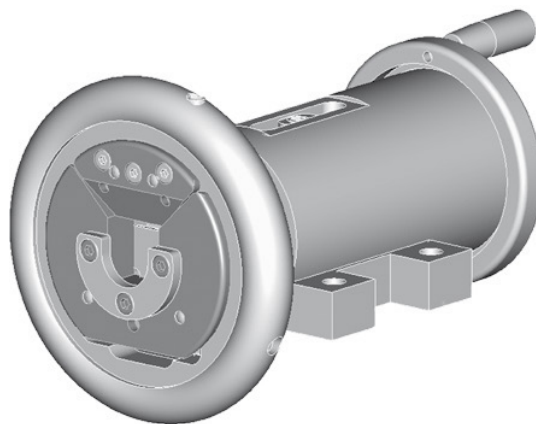
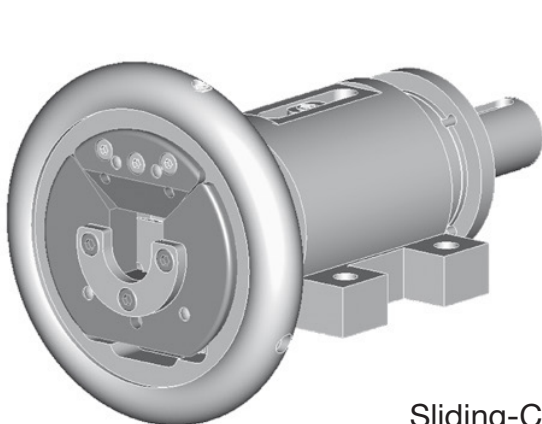


Max. shaft-dia.: Ø 240 mm
(special shaft without stop)

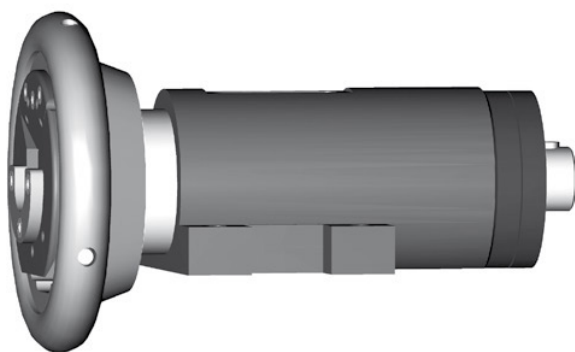
Shaft end per customer specification

a =		mm
b =		mm
c =		mm
d =		mm
e =		mm
f =		mm

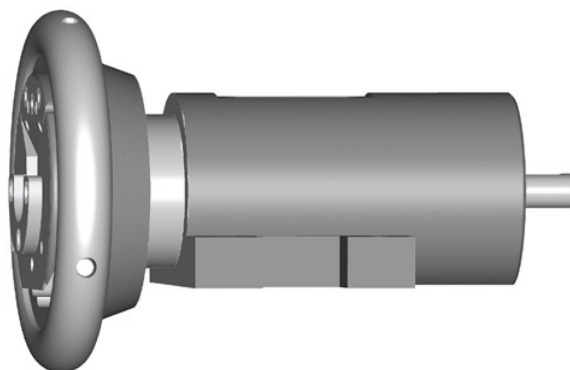
3.0 Overview Sliding-Chucks



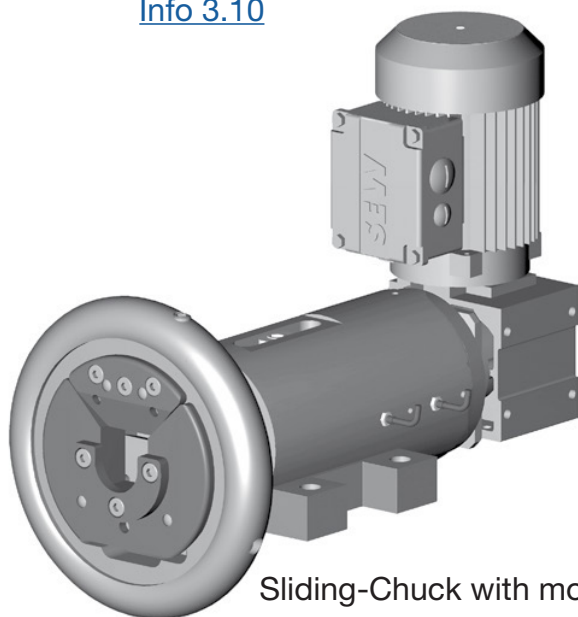
Sliding-Chuck
[Info 3.00](#)



Sliding-Chuck with axial
fixed drive
[Info 3.10](#)



Sliding-Chuck for motorized
adjustment
[Info 3.30](#)

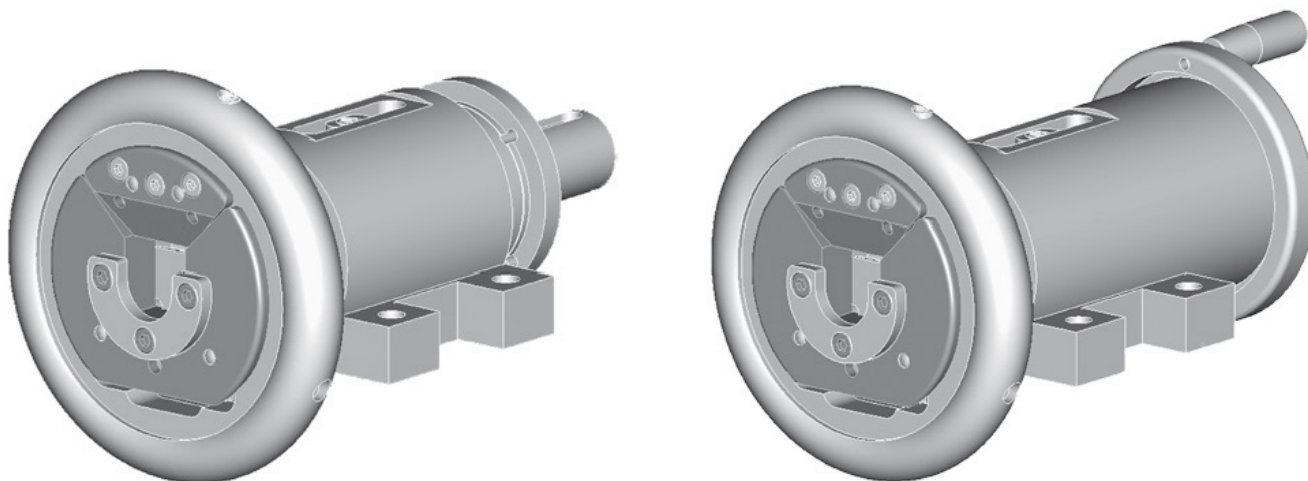


Sliding-Chuck with motorized adjustment
[Info 3.20](#)

3.00 Boschert Sliding-Chuck



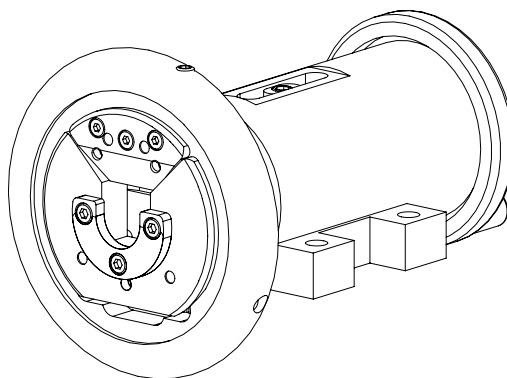
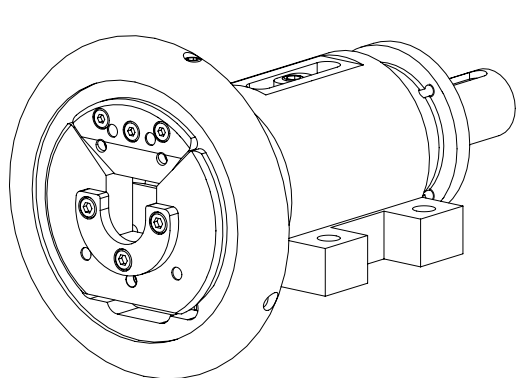
- 22-30 bis 40-50 SKO** *Boschert* foot mounted chuck without shaft end
22-30 bis 40-50 SKW *Boschert* foot mounted chuck with shaft end
22-30 bis 40-50 SKOF *Boschert* flange mounted chuck without shaft end
22-30 bis 40-50 SKWF *Boschert* flange mounted chuck with shaft end



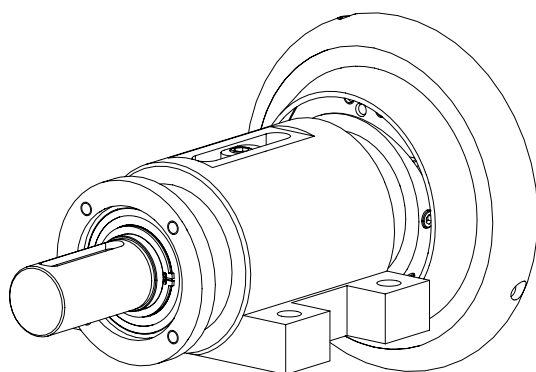
	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22 - 30 mm (0.8661" - 1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30 - 40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40 - 50 mm (1.5748" - 1.9685")

		Info
Type	VT	2.55
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	3.80
Model	50 mm adjustment	3.03 - 3.06
	100 mm adjustment	3.03 - 3.06
Shaft end	Standard	3.03 - 3.05
Handwheel lock	HRV-S / HRV II (left/right)	3.80
Axial locking:	driver disc	3.81 - 3.84
Options	axial fixed drive	3.10 - 3.11
	with motorized adjustment	3.20 - 3.22
	for motorized adjustment	3.30 - 3.32
Add. parts	brakes	6.00
	clutches	7.00

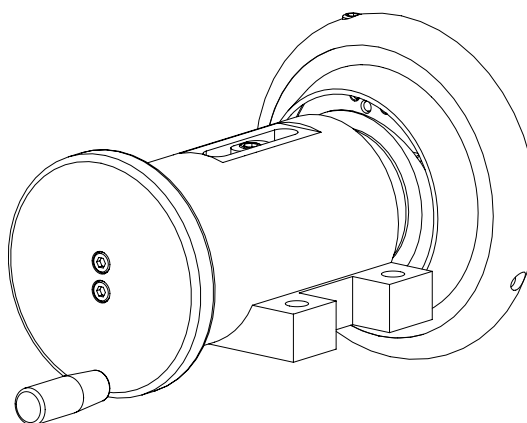
Boschert-Sliding-Chuck type VT



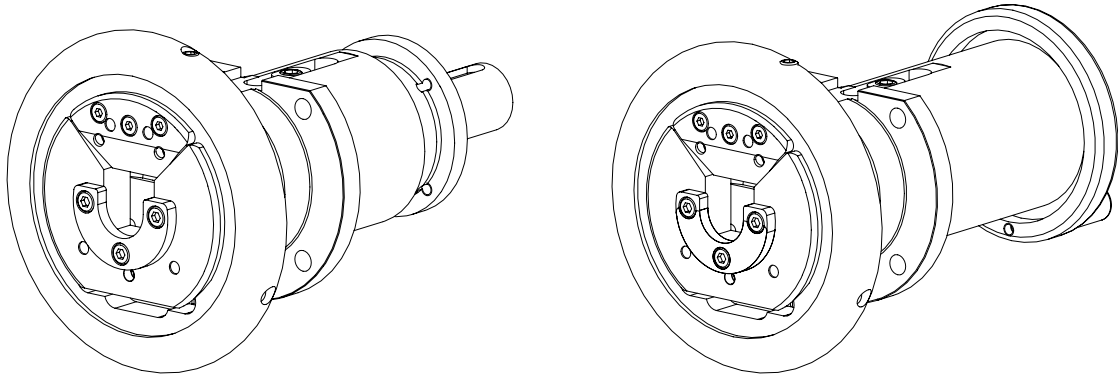
SKW
chuck with shaft end



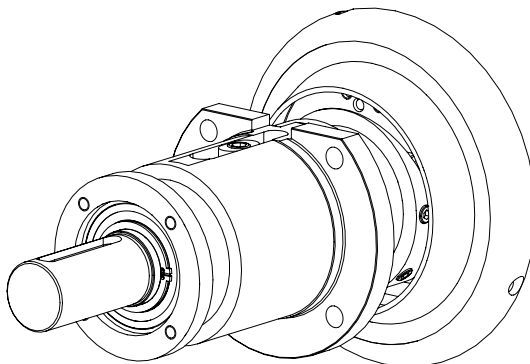
SKO
chuck without shaft end



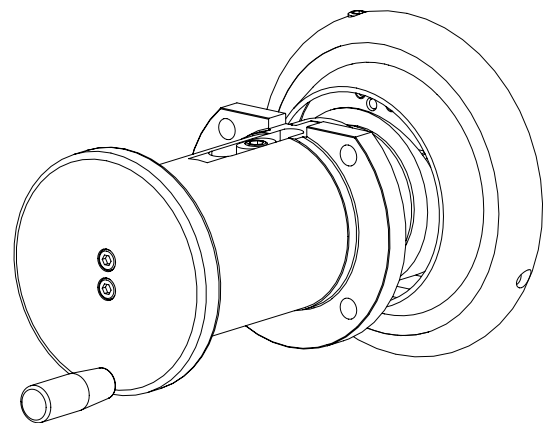
Boschert-Sliding-Chuck type VT



SKWF
chuck with shaft end



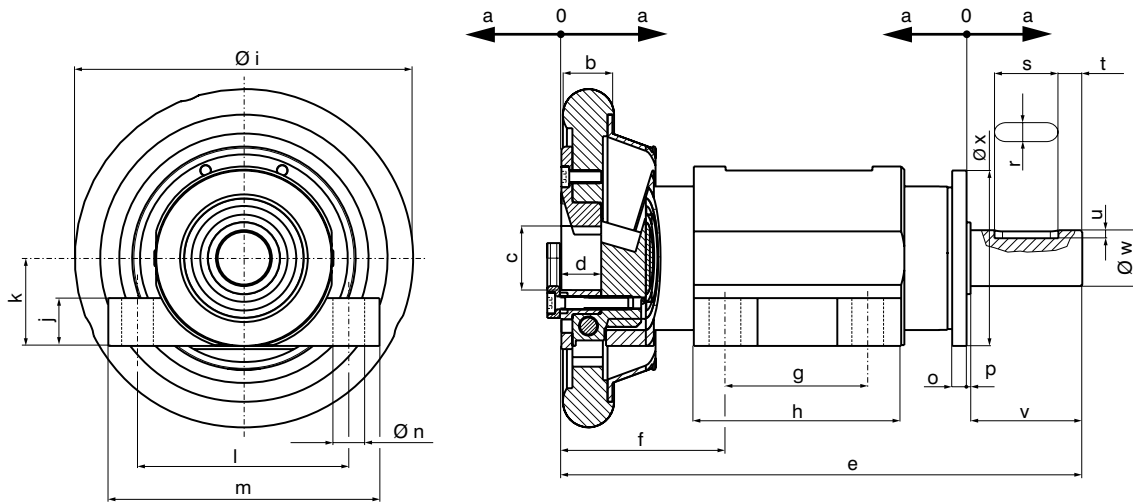
SKOF
chuck without shaft end



Boschert-Sliding-Chuck dim. sheet foot mounted chuck



SKW Boschert foot mounted chuck with shaft end



SW = adjustment

[Info 3.80](#)

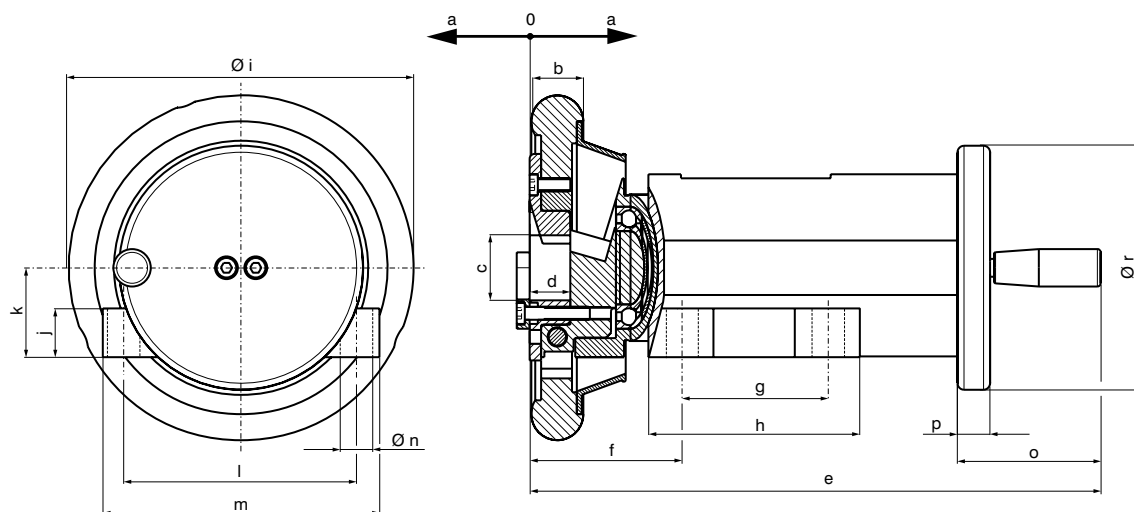
	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	25	25	32	32	40	40
c	22-30	22-30	30-40	30-40	40-50	40-50
d	22	22	25	25	27	27
e	322.5	422.5	338.5	438.5	372.5	472.5
f	100	125	103	128	115	140
g	90	90	90	90	80	80
h	130	130	130	130	130	130
i	160	160	212	212	235	235
j	18	18	30	30	28	28
k	50	50	55	55	75	75
l	110	110	140	140	160	160
m	145	145	168	168	200	200
n	13	13	14	14	14	14
o	12	12	12	12	12	12
p	1.5	1.5	2.5	2.5	2.5	2.5
r P9	8	8	12	12	14	14
s	40	40	70	70	90	90
t	15	15	6	6	10	10
u	4	4	5	5	5,5	5,5
v	70	70	82	82	110	110
w h6	28	28	42	50	50	50
x	87	87	110	110	125	125

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Boschert-Sliding-Chuck dim. sheet foot mounted chuck



SKO Boschert foot mounted chuck without shaft end



[Info 3.80](#)

SW = adjustment

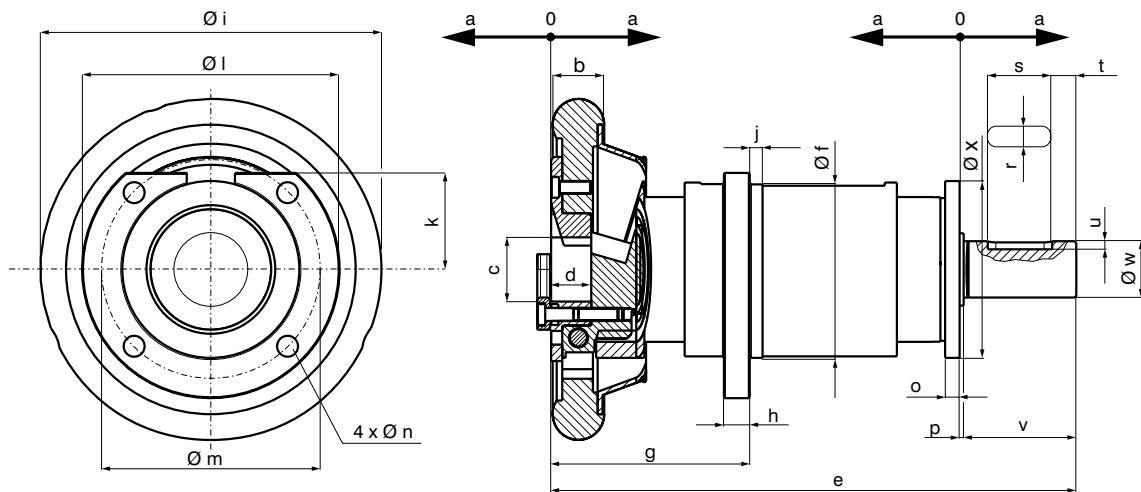
	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	25	25	32	32	40	40
c	22-30	22-30	30-40	30-40	40-50	40-50
d	22	22	25	25	27	27
e	357.5	433	360.5	435.5	381.5	456.5
f	100	125	103	128	115	140
g	90	90	90	90	80	80
h	130	130	130	130	130	130
i	160	160	212	212	235	235
j	18	18	30	30	28	28
k	50	50	55	55	75	75
l	110	110	140	140	160	160
m	145	145	168	168	200	200
n	13	13	14	14	14	14
o	83.5	84	87.5	87.5	102.5	102.5
p	16	16	20	20	20	20
r	128	128	150	150	168	168

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Boschert-Sliding-Chuck dim. sheet flange mounted chuck



SKWF *Boschert* flange mounted chuck with shaft end



SW = adjustment

[Info 3.80](#)

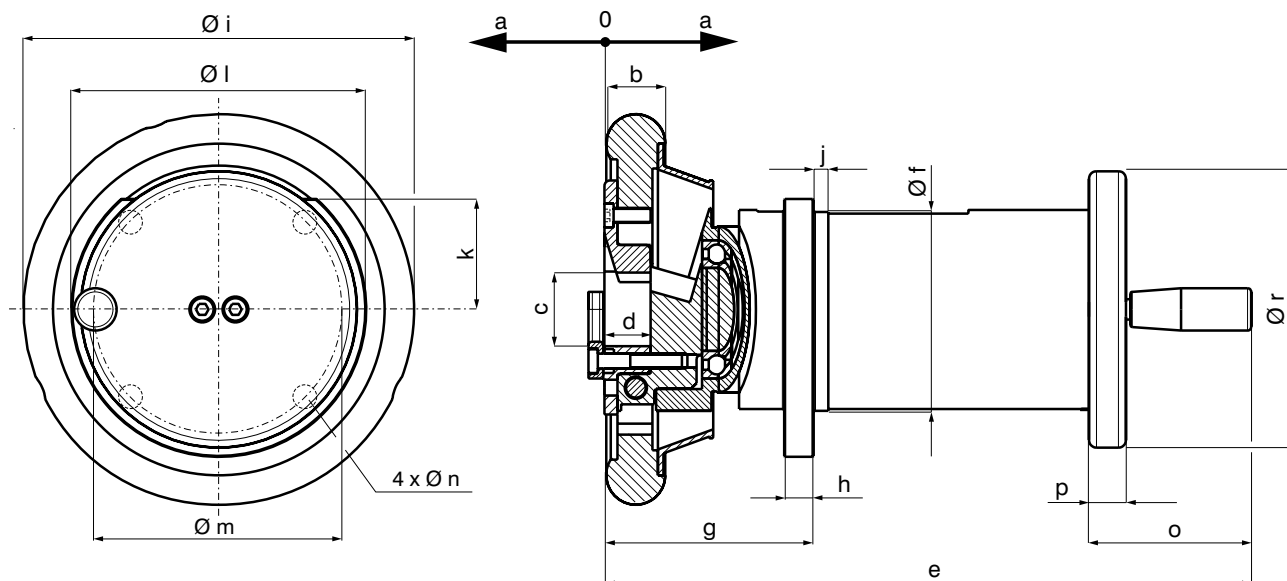
	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	25	25	32	32	40	40
c	22-30	22-30	30-40	30-40	40-50	40-50
d	22	22	25	25	27	27
e	322,5	422,5	338,5	438,5	372,5	472,5
f f7	100	100	110	110	140	140
g	116	141	123,5	148,5	136,5	161,5
h	16	16	16	16	22	22
i	160	160	212	212	235	235
j	4	4	8	8	8	8
k	55	55	60	60	77	77
l	145	145	160	160	210	210
m	120	120	135	135	170	170
n	11	11	13	13	18	18
o	12	12	12	12	12	12
p	1,5	1,5	2,5	2,5	2,5	2,5
r P9	8	8	12	12	14	14
s	40	40	70	70	90	90
t	15	15	6	6	10	10
u	4	4	5	5	5,5	5,5
v	70	70	82	82	110	110
w h6	28	28	42	42	50	50
x	87	87	110	110	125	125

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Boschert-Sliding-Chuck dim. sheet flange mounted chuck



SKOF Boschert flange mounted chuck without shaft end



[Info 3.80](#)

SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	25	25	32	32	40	40
c	22-30	22-30	30-40	30-40	40-50	40-50
d	22	22	25	25	27	27
e	357.5	433	360.5	435.5	381.5	456.5
f f7	100	100	110	110	140	140
g	116	141	123.5	148.5	136.5	161.5
h	16	16	16	16	22	22
i	160	160	212	212	235	235
j	4	4	8	8	8	8
k	55	55	60	60	77	77
l	145	145	160	160	210	210
m	145	145	168	168	200	200
n	11	11	13	13	18	18
o	83.5	84	87.5	87.5	102.5	102.5
p	16	16	20	20	20	20
r	128	128	150	150	168	168

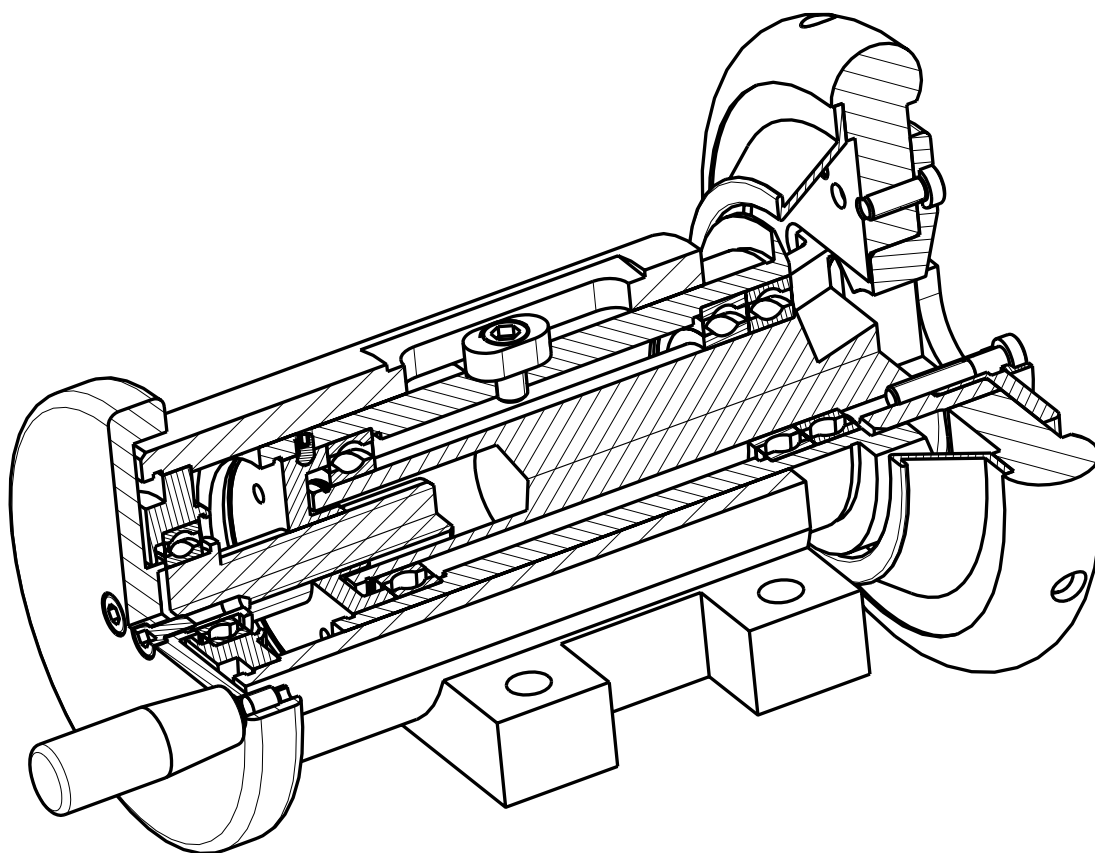
	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Mattenstrasse 1
79541 Lörrach-Hauingen, Germany

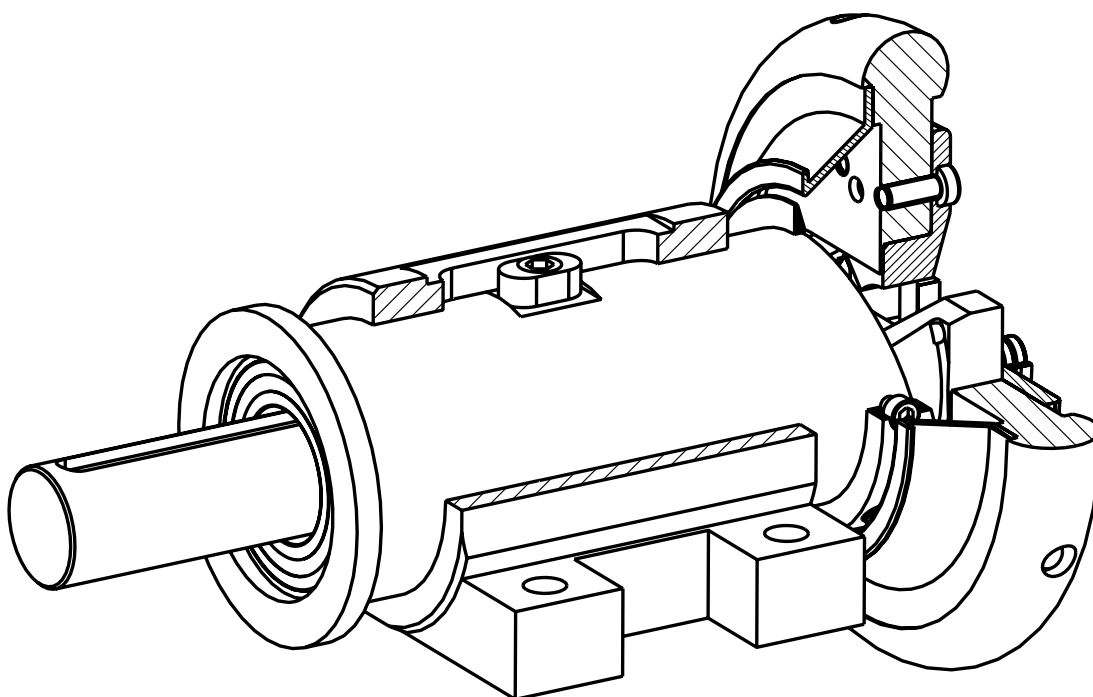
infokl@boschert.de
www.boschert.de

Tel.: +49 7621 9593 0
Fax: +49 7621 55184

3.06

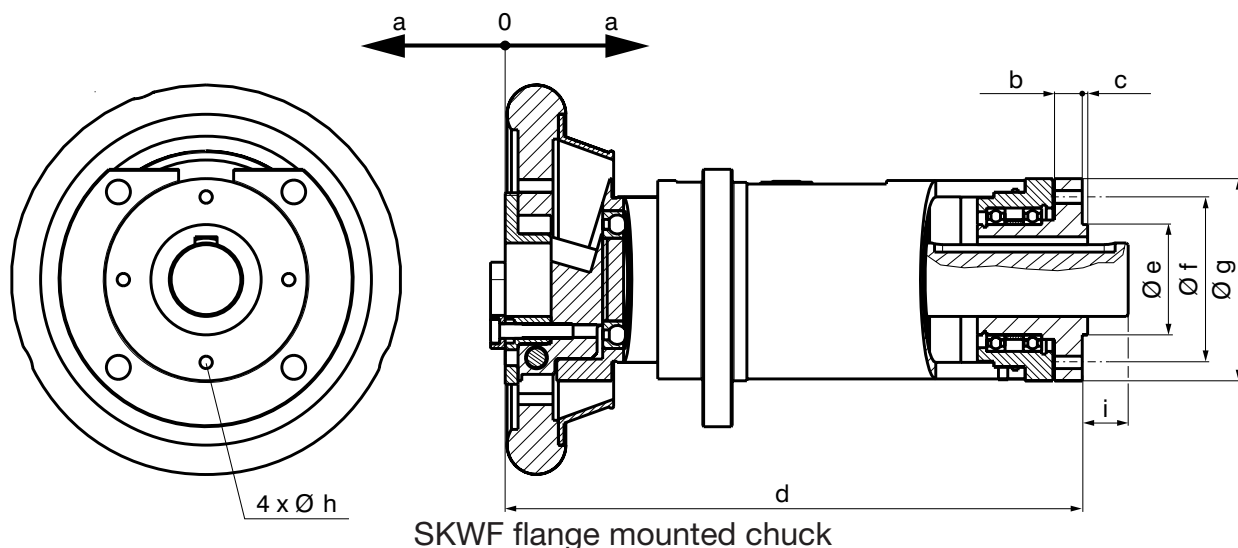
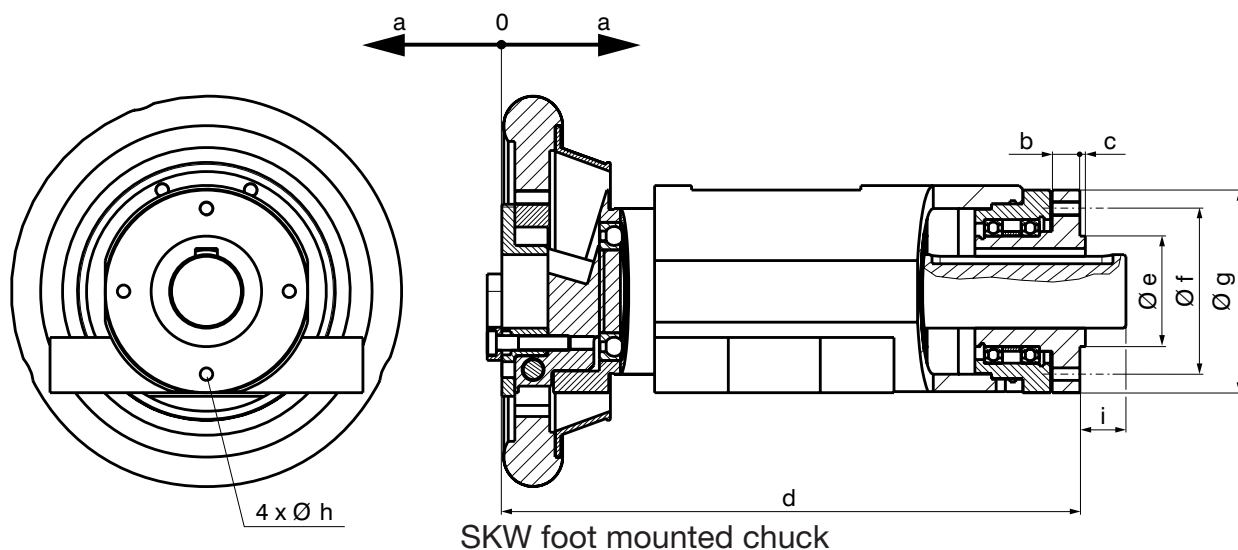


SKO foot mounted chuck without shaft end



SKW foot mounted chuck with shaft end

Boschert-Sliding-Chuck with axial fixed drive



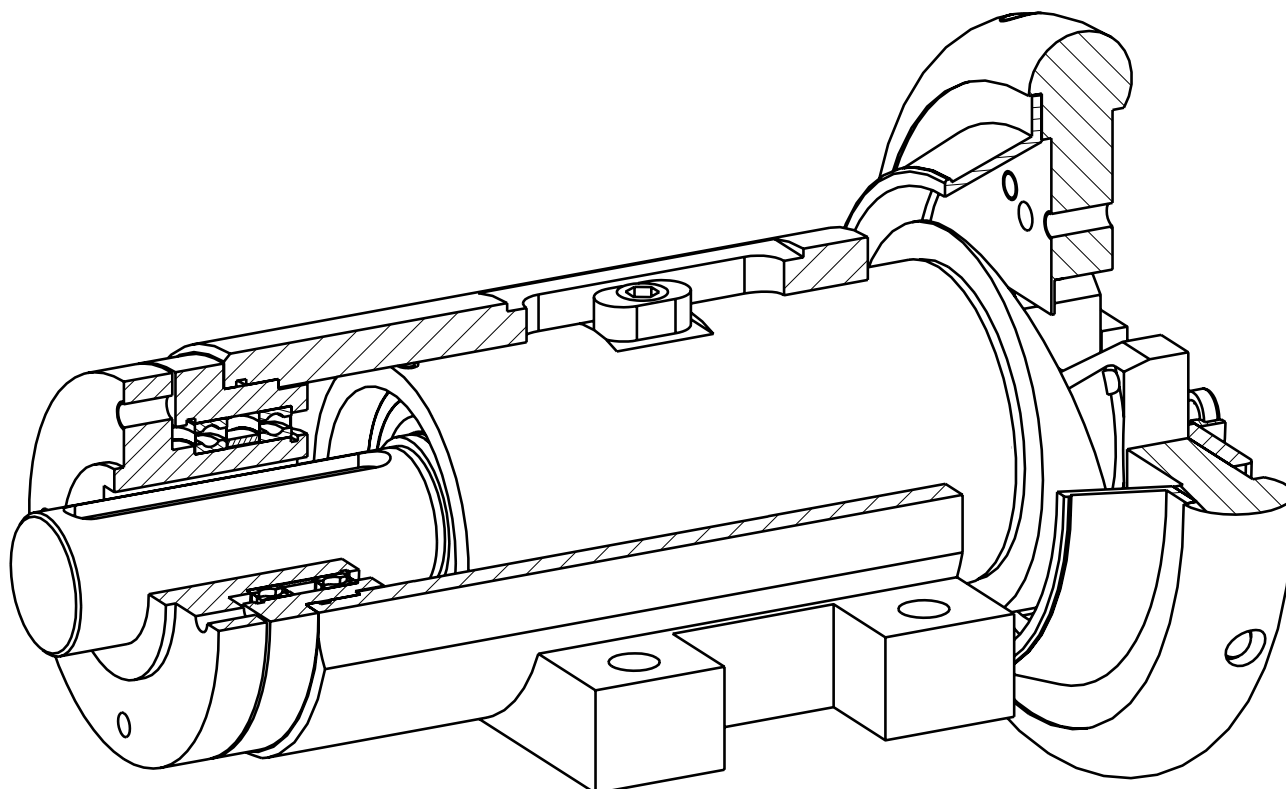
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	12	12	15	15	15	15
c	3	3	3	3	3	3
d	308	383	314	389	330	405
e h7	50	50	60	60	76	76
f	75	75	90	90	110	110
g	98	98	110	110	138	138
h	M8	M8	M8	M8	M10	M10
i	30	50	25	50	31	56

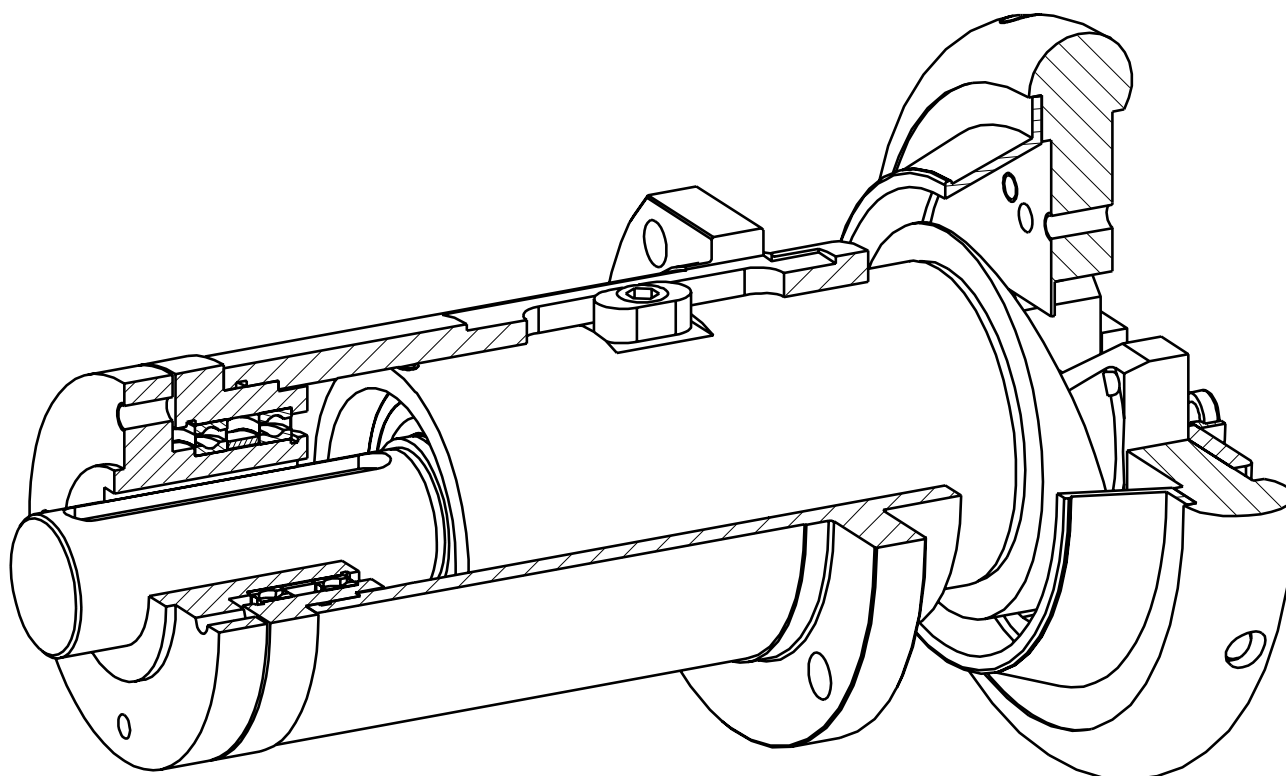
for dimensions not
shown please see
page [3.04](#) / [3.06](#)

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Construction Sliding-Chuck with axial fixed drive

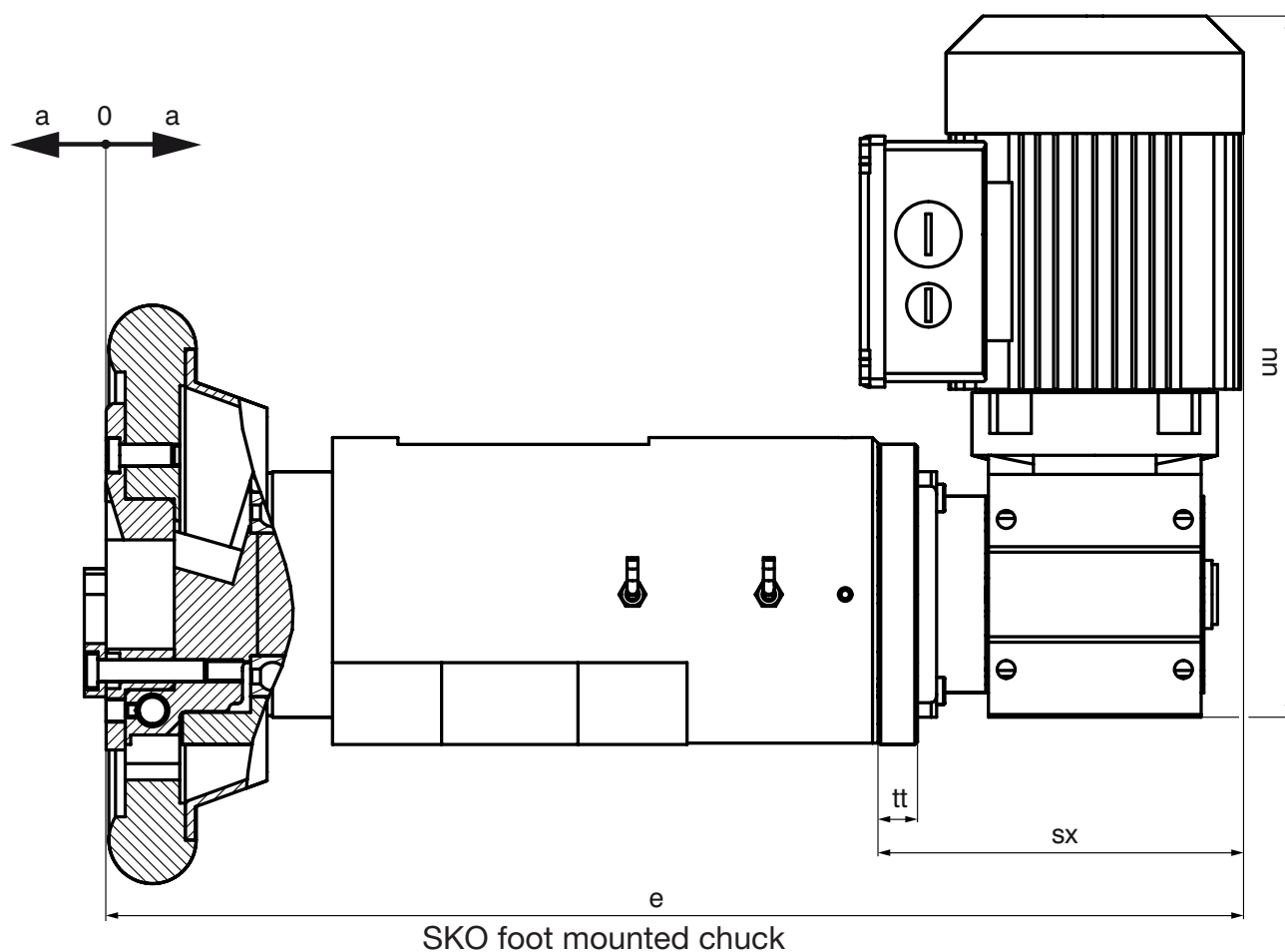


SKW foot mounted chuck



SKWF flange mounted chuck

Boschert-Sliding-Chuck with motorized adjustment



SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
e	412.5	489.5	417	492	425	499
sx	134	134	134	134	134	134
tt	14	14	14.5	14.5	14.5	14.5
uu	267	267	267	267	267	267

for dimensions not shown please see page [3.04](#)

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661" - 1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748" - 1.9685")

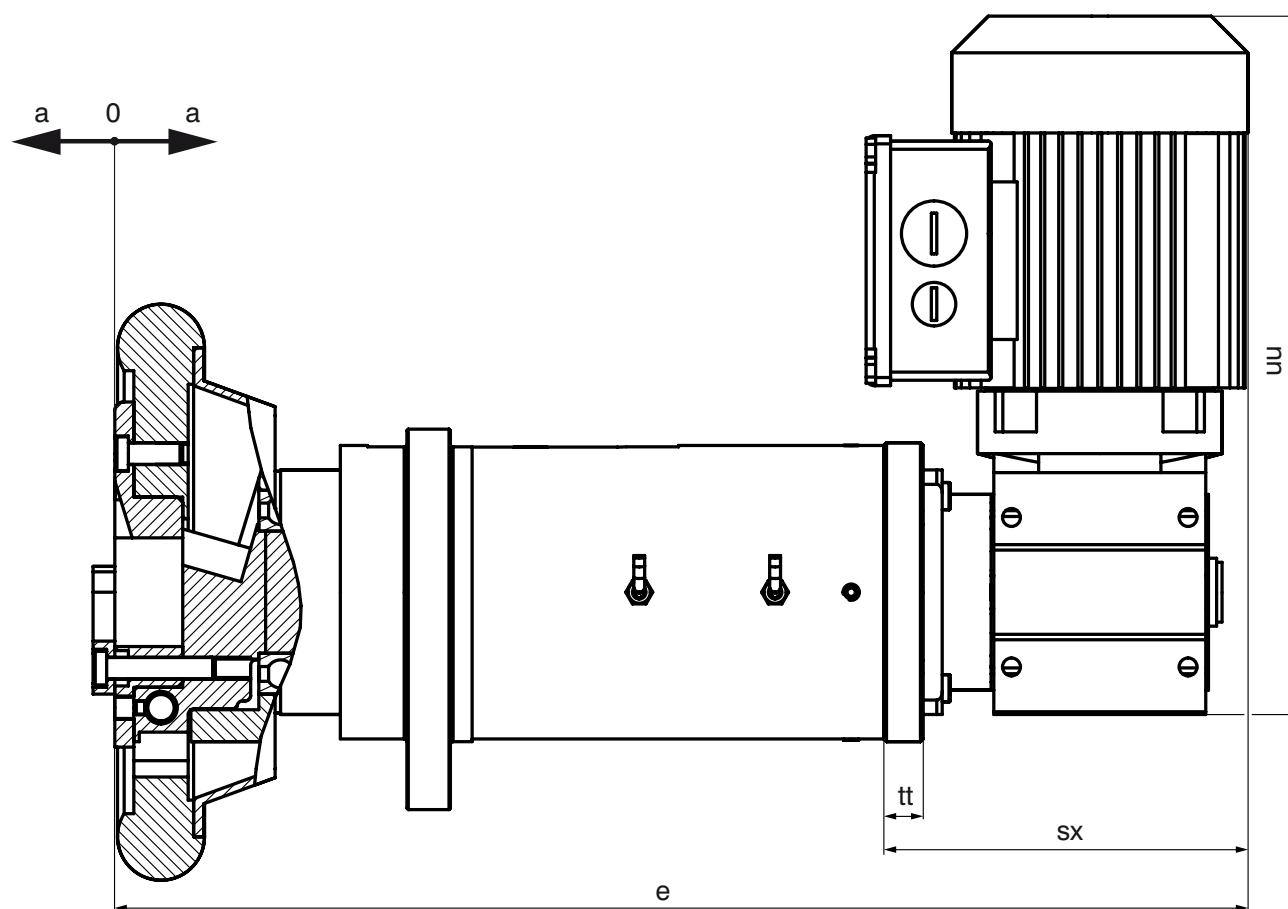
Mattenstrasse 1
79541 Lörrach-Hauingen, Germany

infokl@boschert.de
www.boschert.de

Tel.: +49 7621 9593 0
Fax: +49 7621 55184

3.20

Boschert-Sliding-Chuck with motorized adjustment



SKOF flange mounted chuck

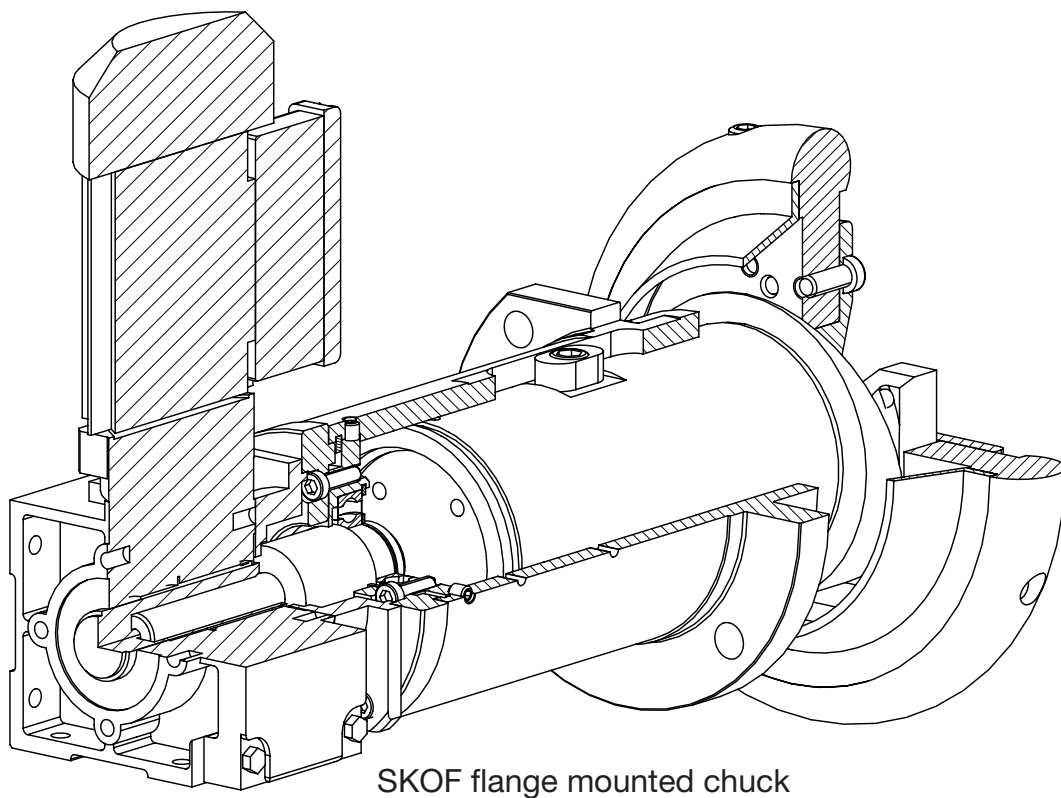
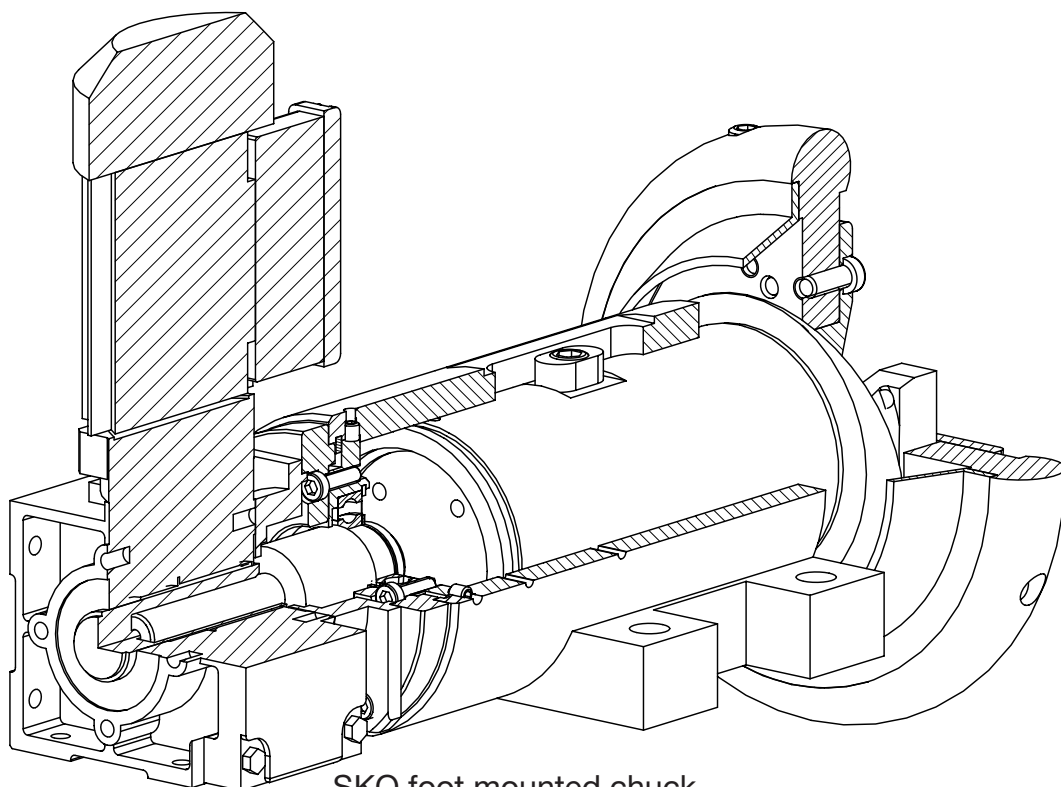
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
e	412.5	489.5	417	492	425	499
sx	134	134	134	134	134	134
tt	14	14	14.5	14.5	14.5	14.5
uu	267	267	267	267	267	267

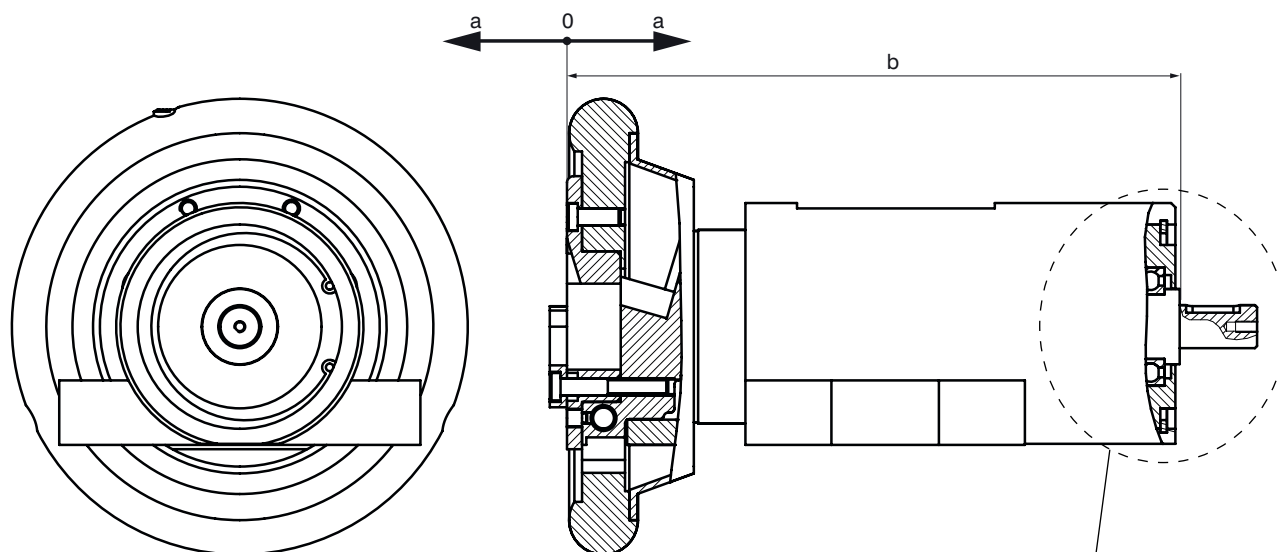
for dimensions not
shown please see
page 3.06

	max. beam weight	max. torque	square bar
22-30	800 kg (1760 lbs)	180 Nm (130 ft·lb)	22-30 mm (0.8661"-1.1811")
30-40	1600 kg (3530 lbs)	350 Nm (250 ft·lb)	30-40 mm (1.1811" - 1.5748")
40-50	2800 kg (6170 lbs)	1100 Nm (800 ft·lb)	40-50 mm (1.5748"-1.9685")

Construction Sliding-Chuck with motorized adjustment



Boschert-Sliding-Chuck for motorized adjustment



SKO foot mounted chuck

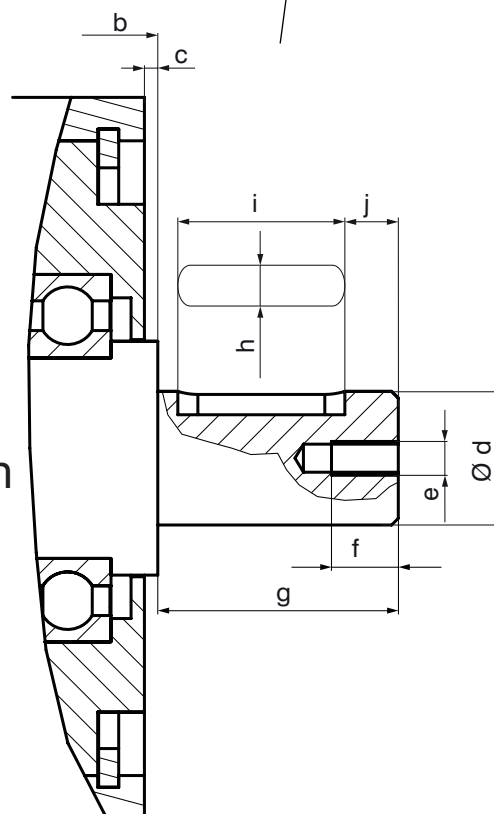
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	300	358	285	360	291	366
c	2	2	2	2	2	2

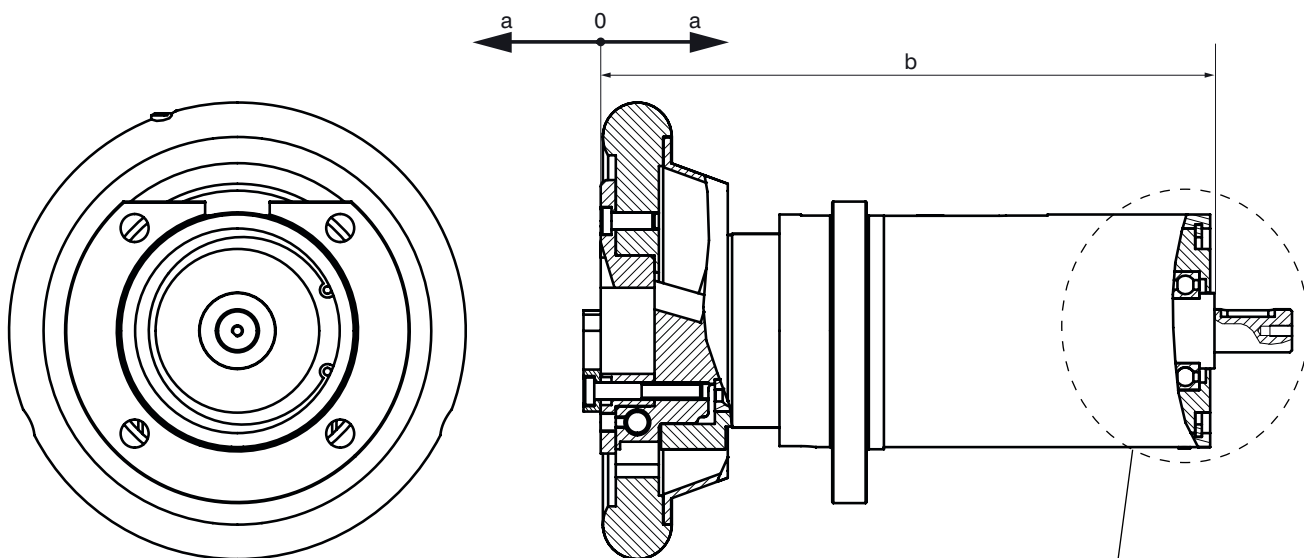
for dimensions not shown please see page [3.04](#)

Shaft end per customer specification

d =		mm
e =		mm
f =		mm
g =		mm
h =		mm
i =		mm
j =		



Boschert-Sliding-Chuck for motorized adjustment



SKOF flange mounted chuck

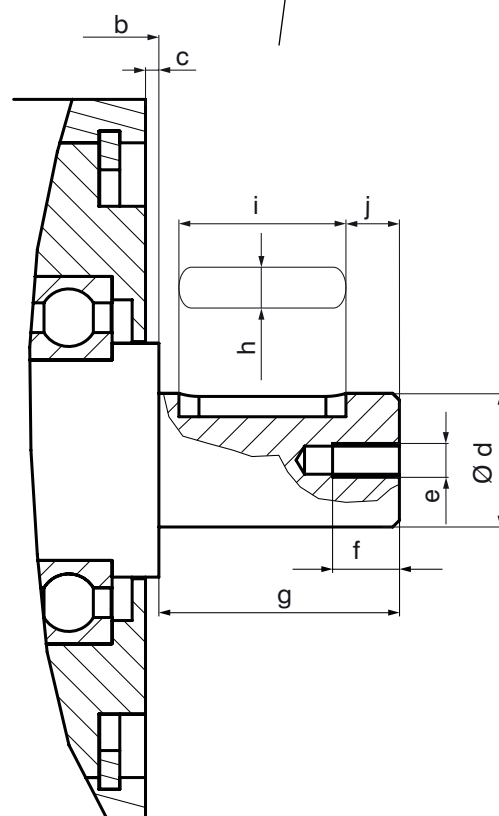
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	300	358	285	360	291	366
c	2	2	2	2	1	1

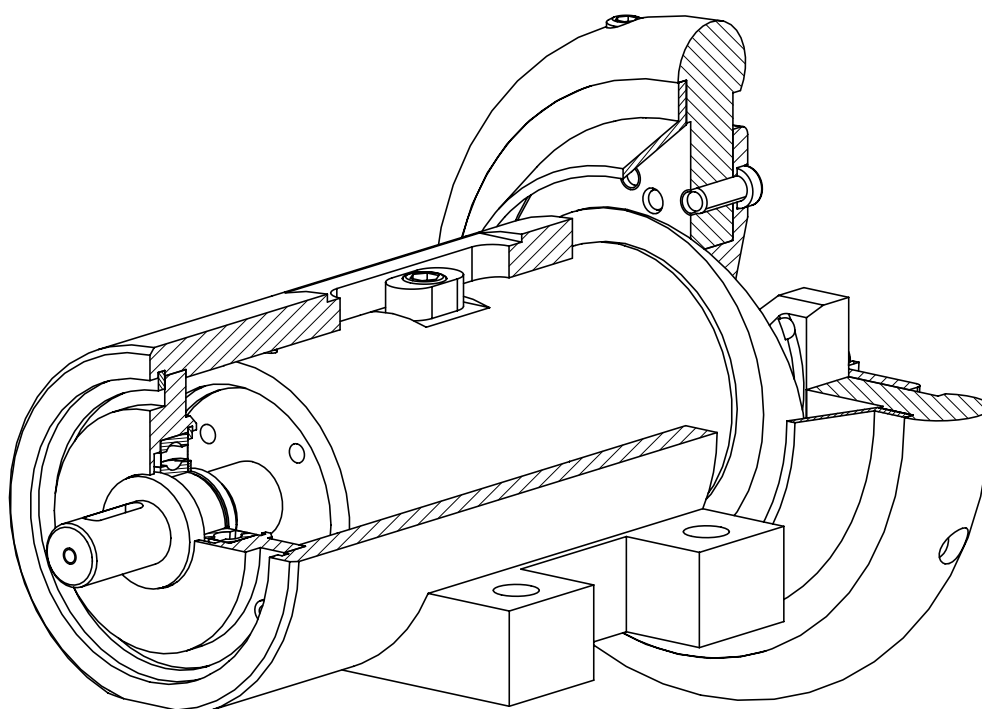
for dimensions not shown please see page [3.06](#)

Shaft end per customer specification

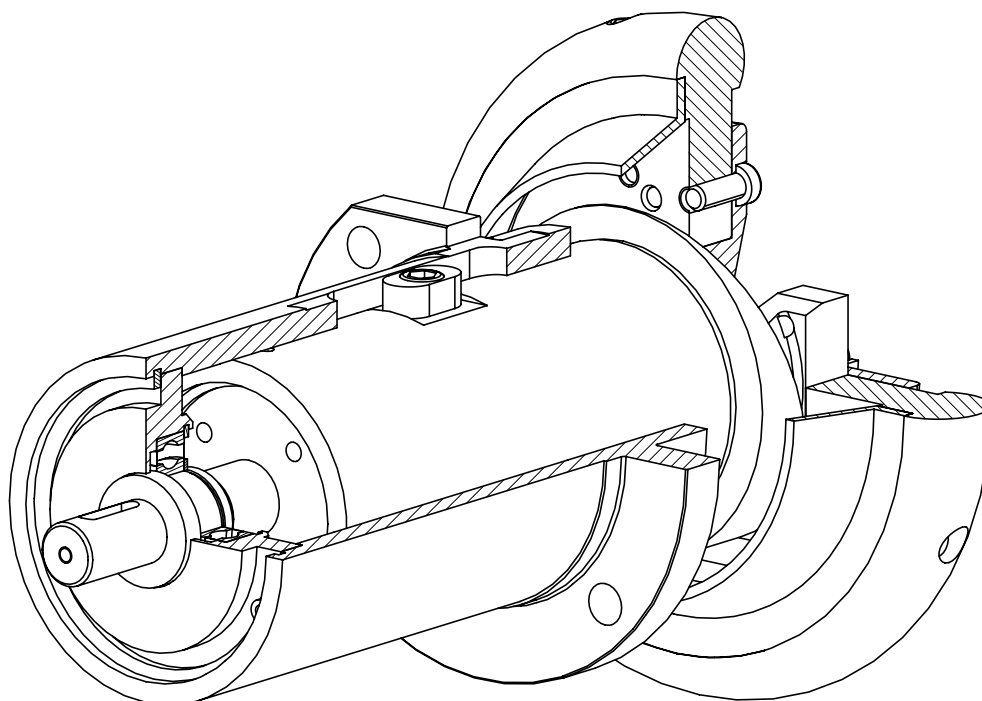
d =		mm
e =		mm
f =		mm
g =		mm
h =		mm
i =		mm
j =		



Construction Sliding-Chuck for motorized adjustment



SKO foot mounted chuck



SKOF flange mounted chuck

VT-insert



VT 1

[Info 11.10](#)



VT 2

[Info 11.10](#)



VT 6

[Info 11.11](#)



VT 7

[Info 11.12](#)

Special square bar

VT1/VT2:

on request

Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

[Info 11.20](#)

VT1

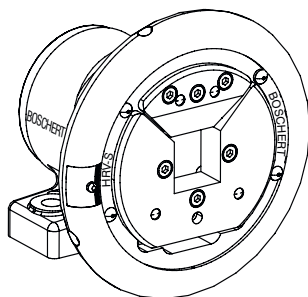
Shaft end

Special shaft ends per customer request

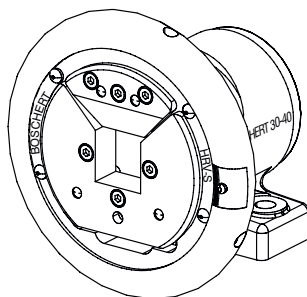
Max. shaft-dia.: see table
(special shaft without stop)

type	max. shaft-dia.
22-30	Ø 30 mm
30-40	Ø 45 mm
40-50	Ø 55 mm

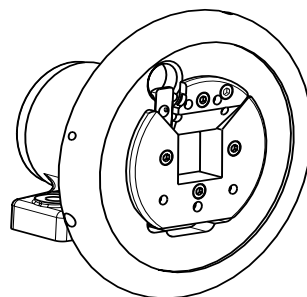
Handwheel lock



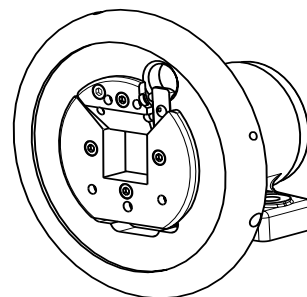
HRV-S left



HRV-S right



HRV II left



HRV II right

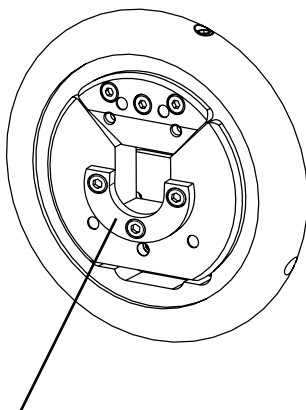
**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**

[Info 8.30](#)

[Info 8.31](#)

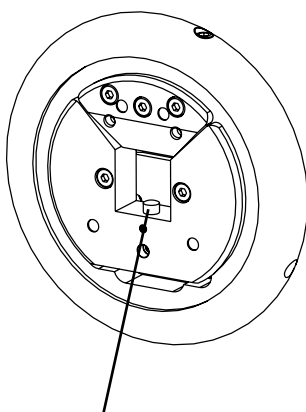
Handwheel-diameter on chucks 30-40 / 40-50 with lock type II: ~ Ø 248 mm

Axial locking of winding shaft



Axial locking with driver disc

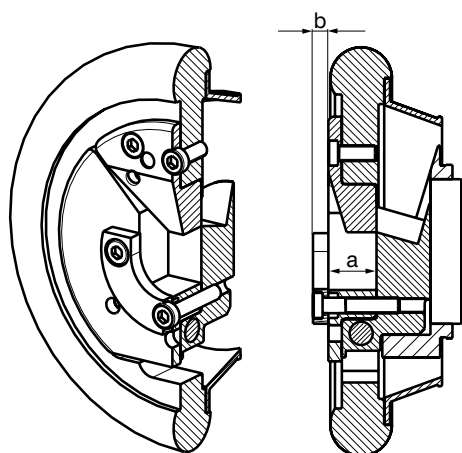
	standard	Option
VT1	x	
VT2	x	
VT6	x	
VT7	x	



Axial locking with driver pin

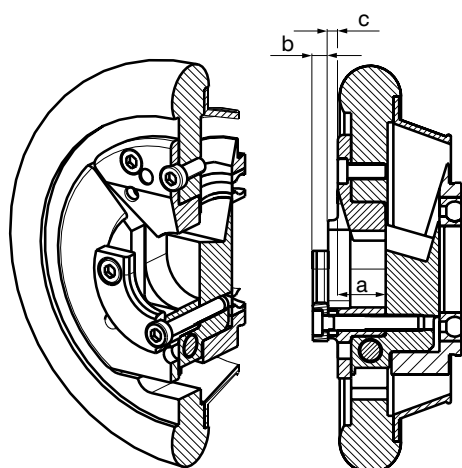
	standard	Option
VT1		x

Dimensions axial locking in Sliding-Chuck



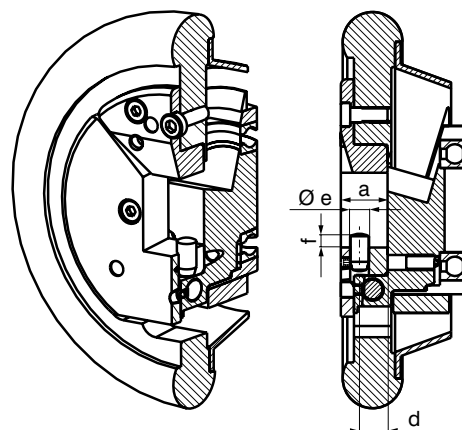
driver disc VT1 / VT2 / VT6

	22-30	30-40	40-50
a	22	25	27
b	7	8	8



driver disc VT7

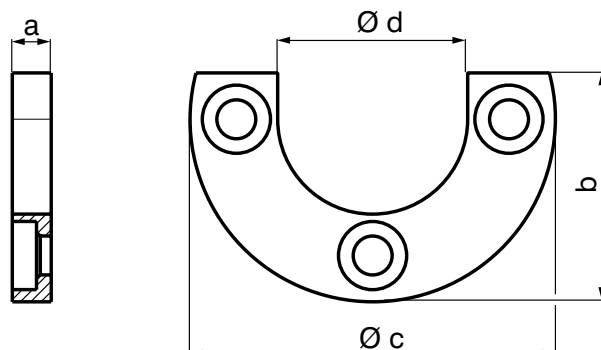
	22-30	30-40	40-50
a	22	25	27
b	7.5	7.5	7.5
c	3	5	4



driver pin

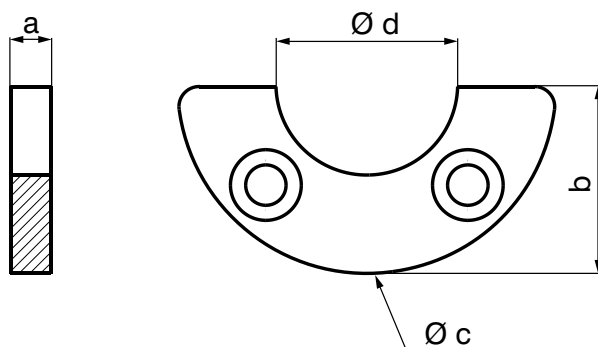
	22-30	30-40	40-50
a	22	25	27
d	12	15	14
e M6	8	10	12
f	6	6	6

VT 1



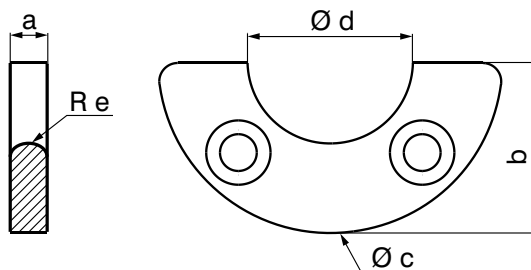
	Mini	19-25	22-30	30-40	40-50
a	5	5	7	8	8
b	31	30	38	47	55
c	48	48	60	75	90
d	d = square bar dimension - 1 ^{+0.1}				

VT 2



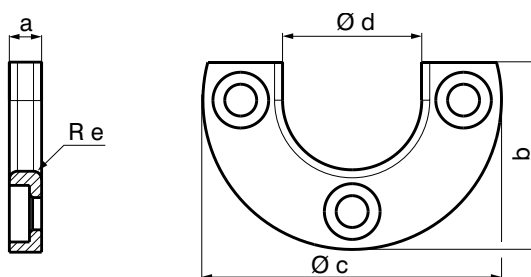
	22-30	30-40	40-50
a	7	8	8
b	38	47	55
c	60	75	90
d	d = square bar dimension - 1 ^{+0.1}		

VT 6



	Mini	19-25	22-30	30-40	40-50
a	7	7	7	8	8
b	23	23	29	37	44
c	48	48	60	75	90
d	20 ^{+0.1}	20 ^{+0.1}	30 ^{+0.1}	36 ^{+0.1}	46 ^{+0.1}
e	3.5	3.5	3.5	4	4

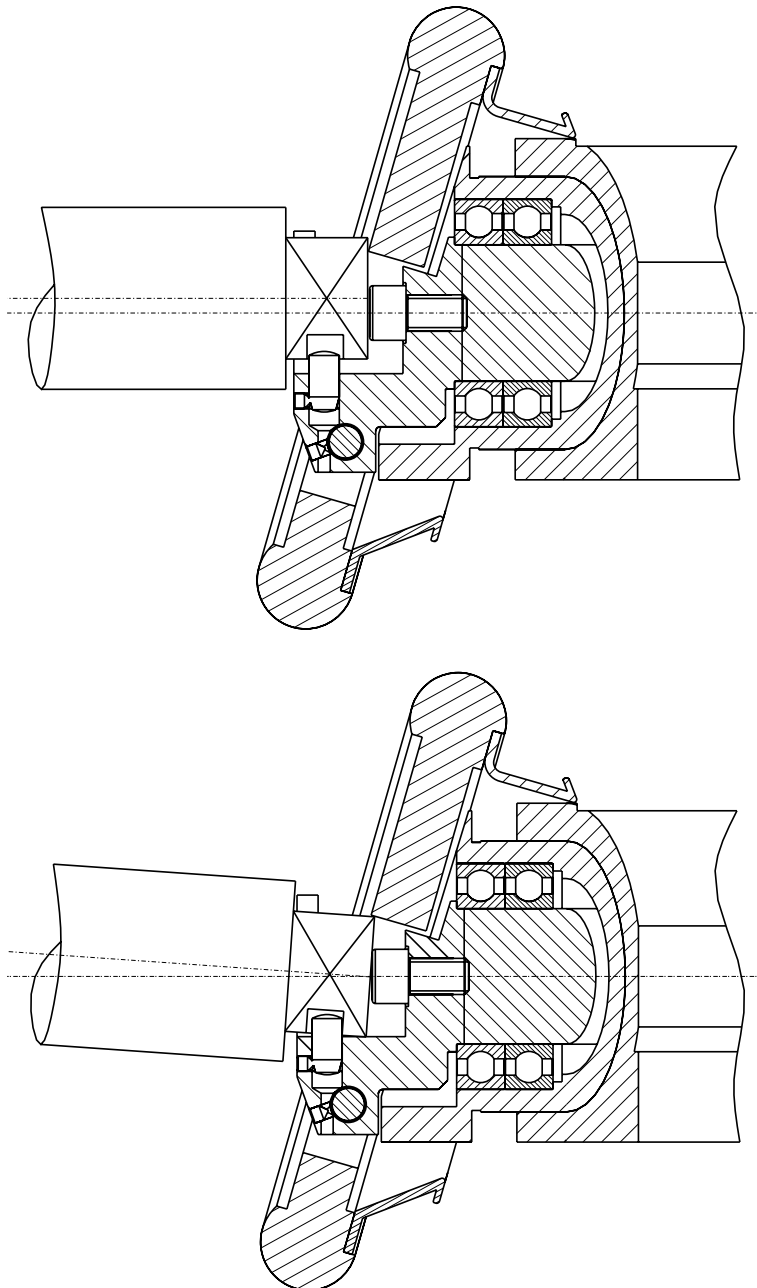
VT 7



	22-30	30-40	40-50
a	7,5	7,5	7,5
b	38	47	55
c	60	75	90
d	29 ^{+0.1}	39 ^{+0.1}	49 ^{+0.1}
e	2	2	2

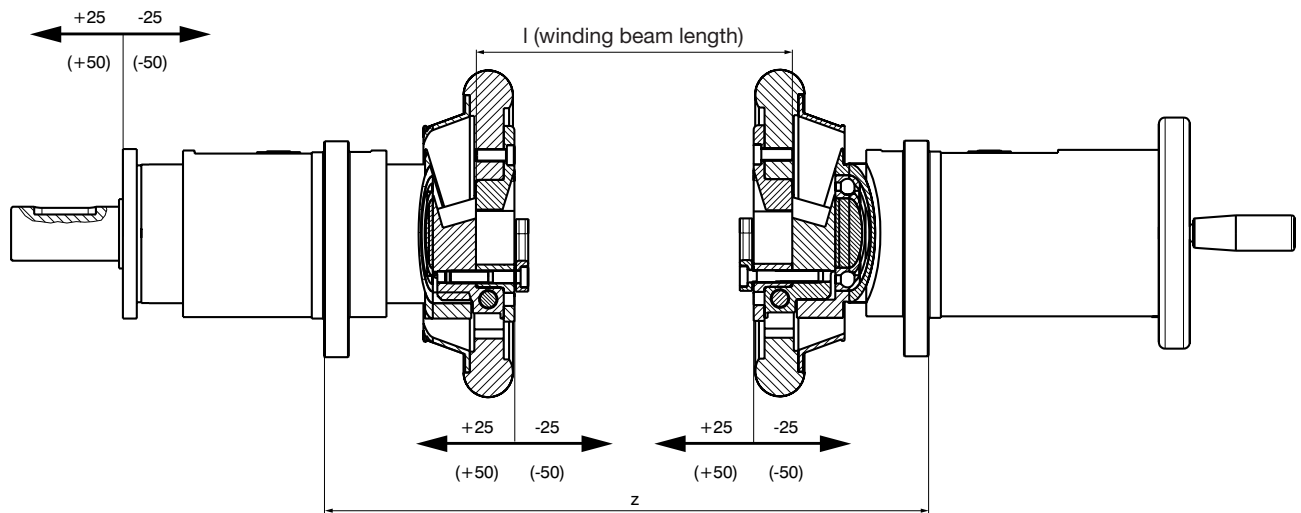
For chucks with axial-movement with driver pin

Occasionally, operation errors can occur when using a crane and the driver pins can become damaged. During unloading, if the winding shaft is lifted at an angle, enormous leverages can occur on the pins and cause them to shear.

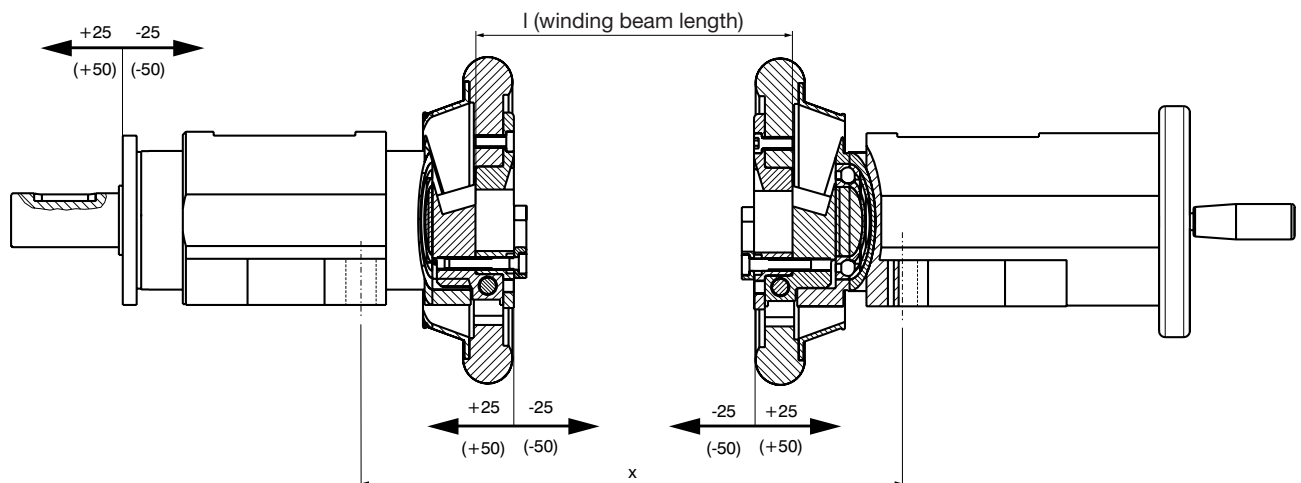


Please use driver discs as an alternative.

flange mounted chuck



foot mounted chuck



50 mm adjustment

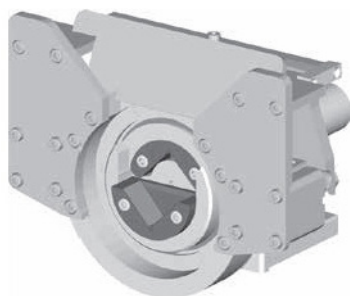
	22-30	30-40	40-50
x	l+156	l+156	l+176
z	l+188	l+197	l+219

100 mm adjustment

	22-30	30-40	40-50
x	l+206	l+206	l+226
z	l+238	l+247	l+269

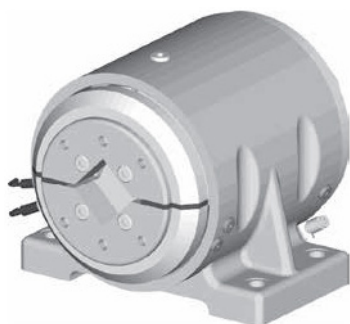
x / z = fixing distance

4.00 Overview pneumatic Safety Chucks



A Serie

<i>Model</i>	<i>max. beam weight / kg</i>	<i>max. torque / Nm</i>	<i>Standard square bar/ mm</i>	<i>Type VT</i>	<i>Info</i>
A40	1600	350	40	x	4.20
A50	2800	1100	50	x	4.30
A80	7000	2350	80	x	4.40



P Serie

<i>Model</i>	<i>max. beam weight / kg</i>	<i>max. torque / Nm</i>	<i>Standard square bar/ mm</i>	<i>Type VT</i>	<i>Info</i>
P30	800	180	30	x	4.50
P40	1600	350	40	x	4.60
P50	2800	1100	50	x	4.70

4.20 Boschert-Chuck A40



A40 STO

Boschert automatic chuck, foot mounted without shaft end

A40 STW

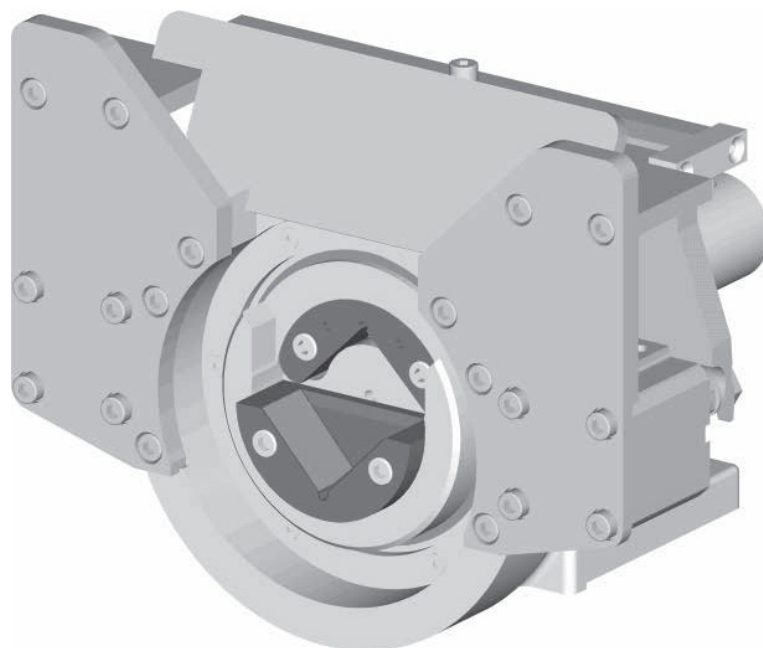
Boschert automatic chuck, foot mounted with shaft end

A40 FLO

Boschert automatic chuck, flange mounted without shaft end

A40 FLW

Boschert automatic chuck, flange mounted with shaft end



Standard Square bar:

□ 40 mm (1.5748")

max. beam weight:

□ 1600 kg (3530 lbs)

max. torque:

↻ 350 Nm (258.1 ft·lb)

Please note:

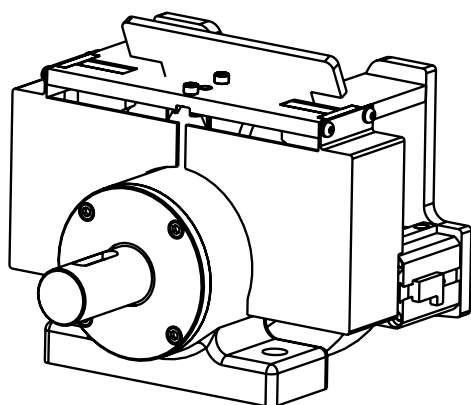
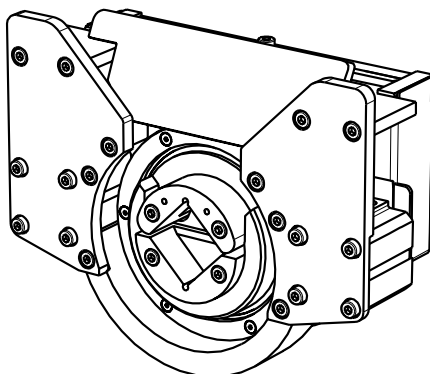
This chuck is a direct retrofit for the chuck 30-40 type C or 30-40 type VT.

		Info
Type	VT	4.23
Journal shaft type VT	VT2 / VT6 / VT7	4.23
Shaft end:	standard	4.23
Info	opening	4.23
Options:	proximity sensor	4.24
Add. parts	brakes	6.00
	clutches	7.00

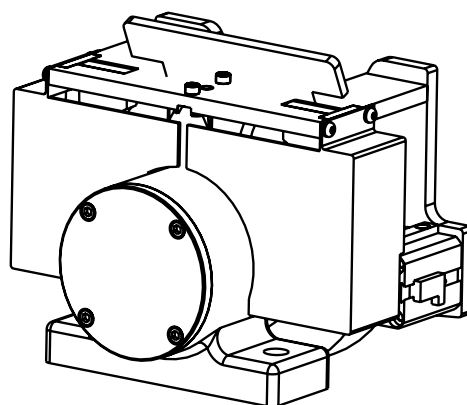
Boschert-Chuck A40 foot mounted



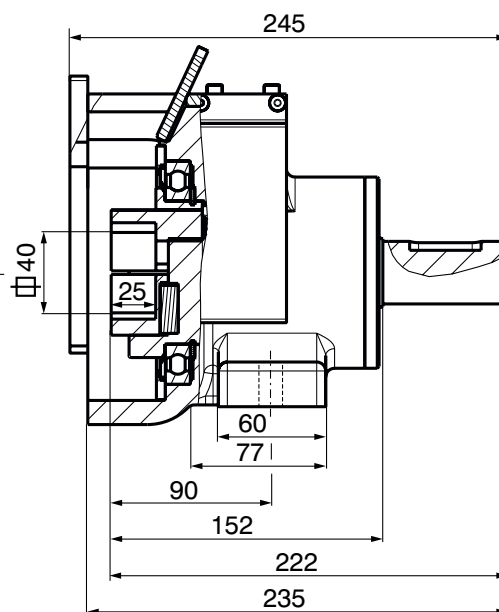
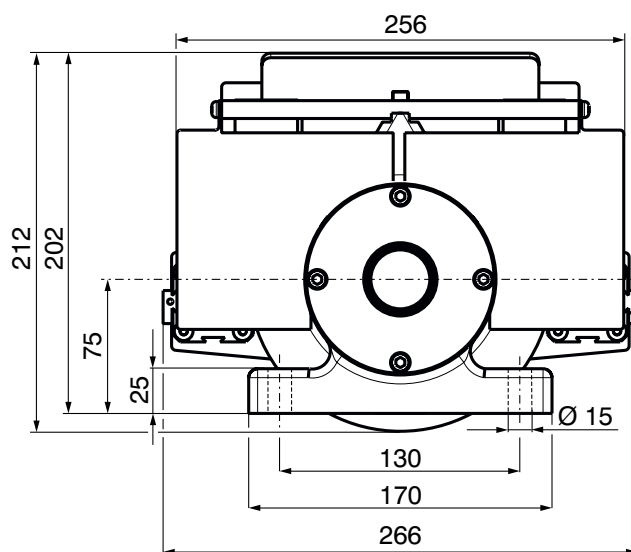
Boschert-Chuck A40



STW A40
chuck with shaft end



STO A40
chuck without shaft end

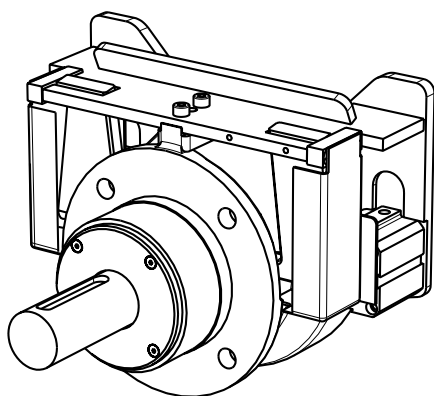
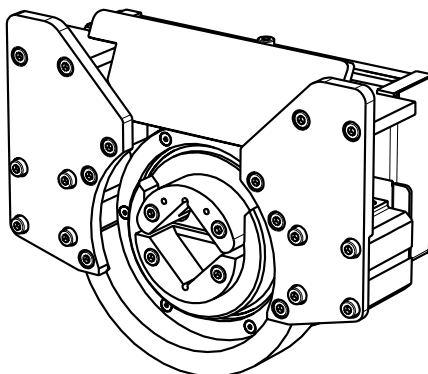


[Shaft end details page 4.23](#)

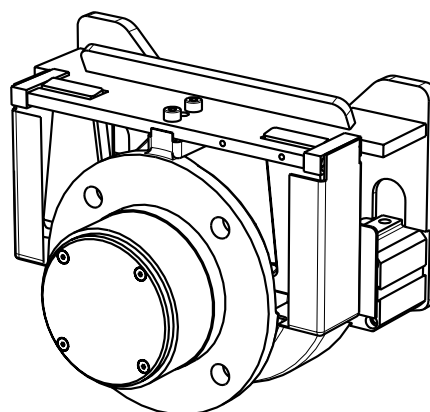
Boschert-Chuck A40 flange mounted



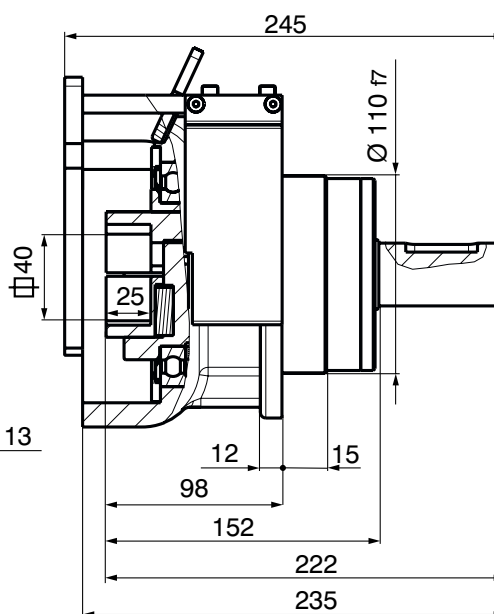
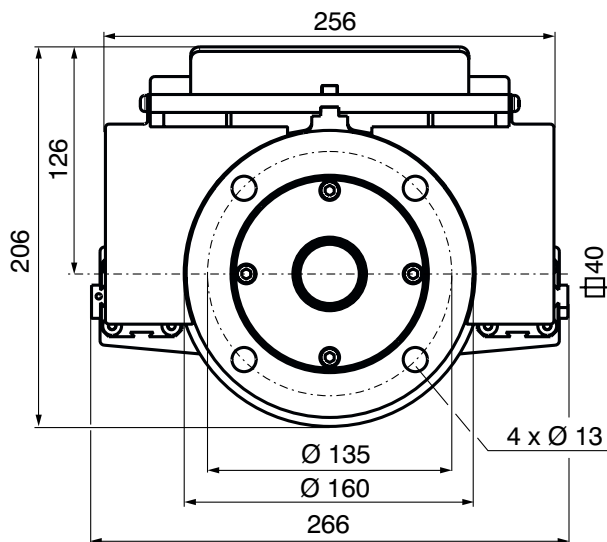
Boschert-Chuck A40



FLW A40
chuck with shaft end

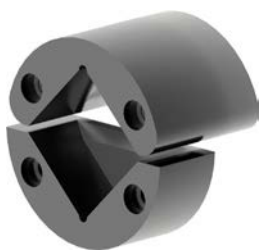


FLO A40
chuck without shaft end



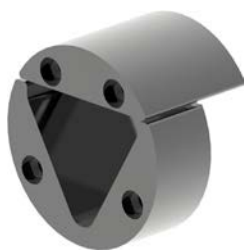
[Shaft end details page 4.23](#)

Journal shaft type



VT2

[Info 11.10](#)



VT6

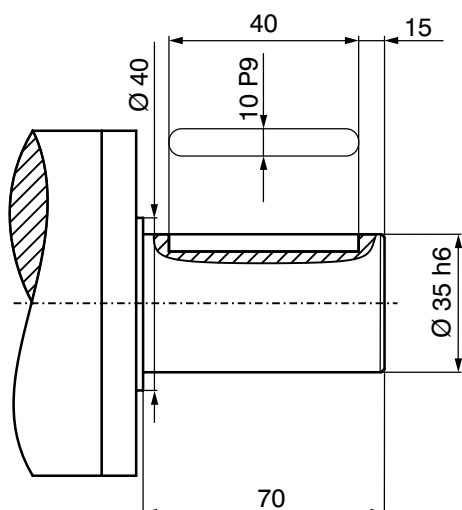
[Info 11.11](#)



VT7

[Info 11.12](#)

Shaft end

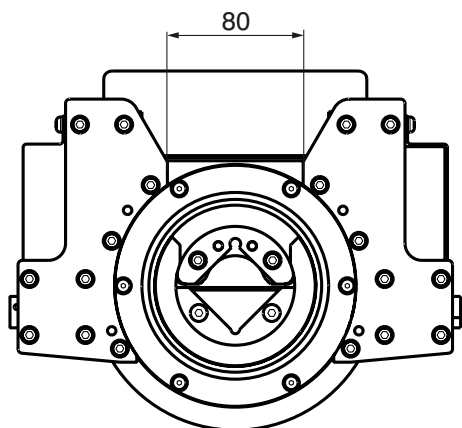


Standard shaft end

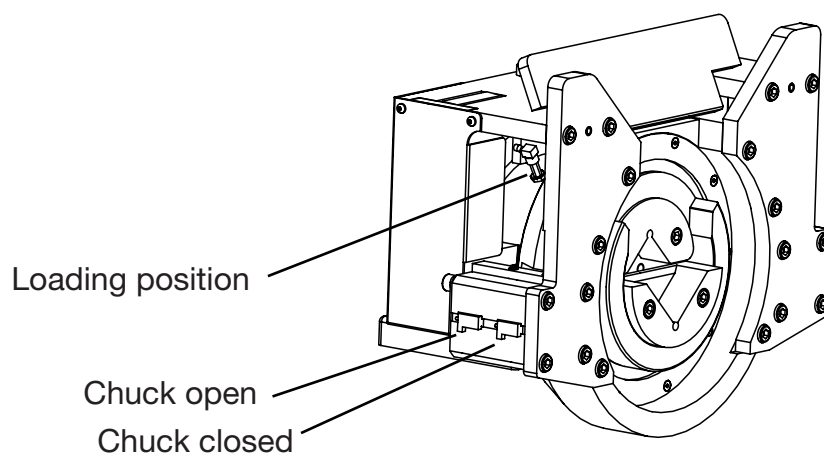
Special shaft ends per customer request

Max. shaft-dia.: Ø 40 mm
(special shaft without stop)

Opening



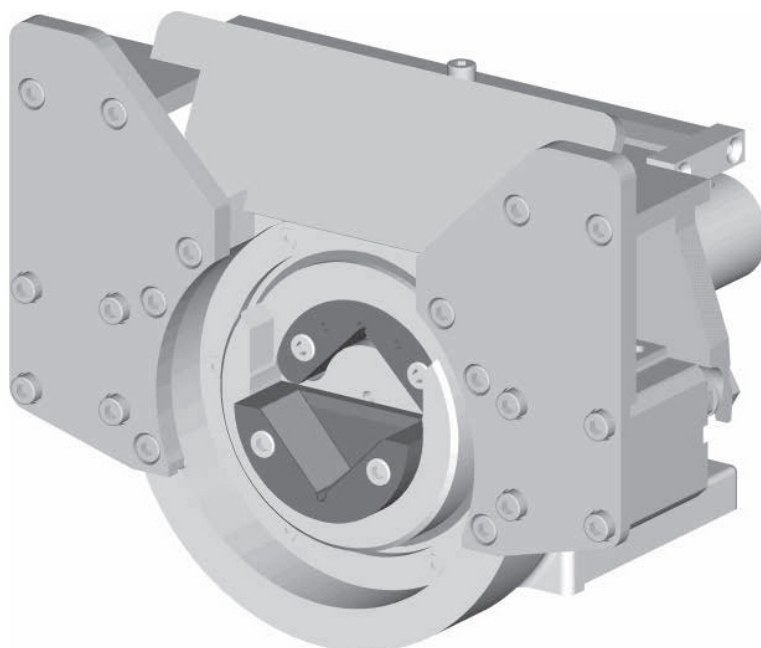
Proximity sensor



4.30 Boschert-Chuck A50



- A50 STO** *Boschert* automatic chuck, foot mounted without shaft end
A50 STW *Boschert* automatic chuck, foot mounted with shaft end
A50 FLO *Boschert* automatic chuck, flange mounted without shaft end
A50 FLW *Boschert* automatic chuck, flange mounted with shaft end



Standard Square bar:  50 mm (1.9658")
max. beam weight:  2800 kg (6170 lbs)
max. torque:  1100 Nm (800 ft·lb)

Please note:

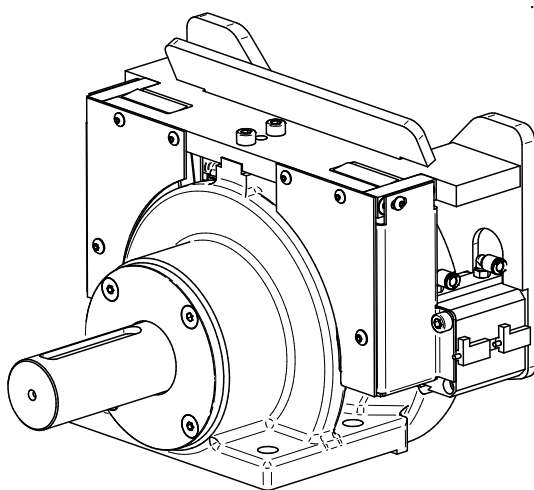
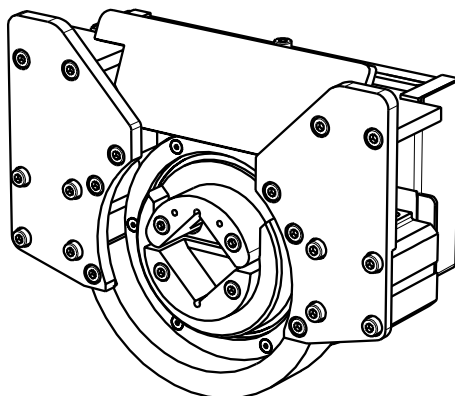
This chuck is a direct retrofit for the chuck 40-50 type C or 40-50 type VT.

		Info
Type	VT	4.33
Journal shaft type VT	VT2 / VT6 / VT7	4.33
Shaft end:	standard	4.33
Info	opening	4.33
Options:	proximity sensor	4.34
Add. parts	brakes	6.00
	clutches	7.0

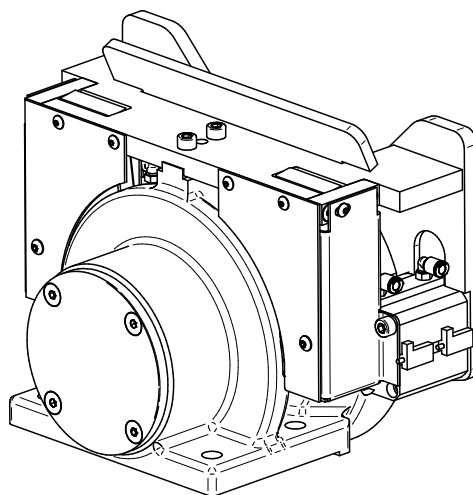
Boschert-Chuck A50 foot mounted



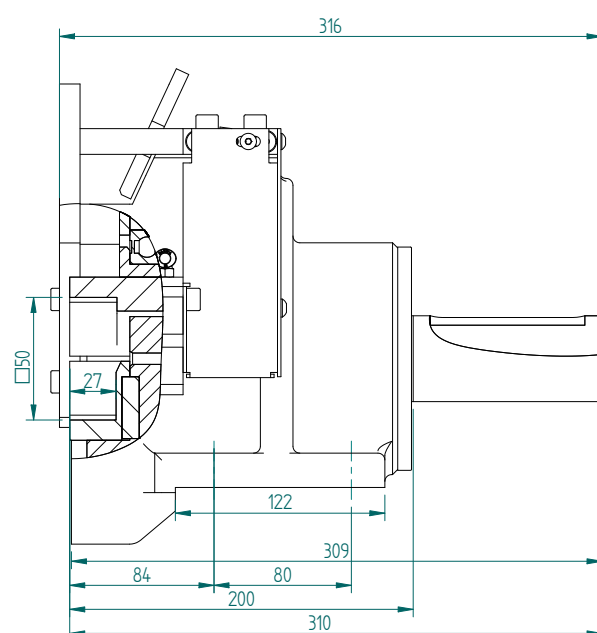
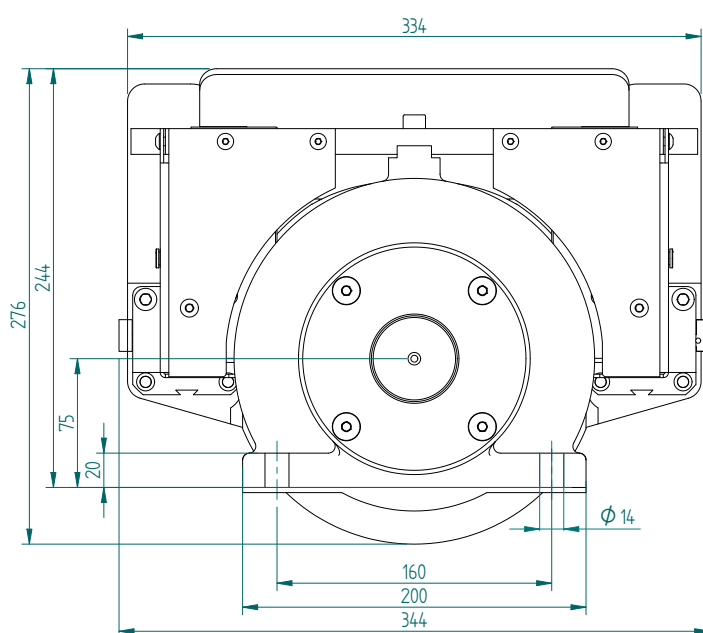
Boschert-Chuck A50



STW A50
chuck with shaft end



STO A50
chuck without shaft end



[Shaft end details page 4.33](#)

Mattenstrasse 1
79541 Lörrach-Hauingen, Germany

infokl@boschert.de
www.boschert.de

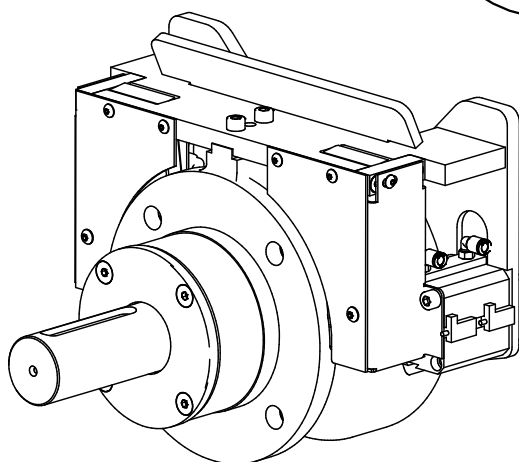
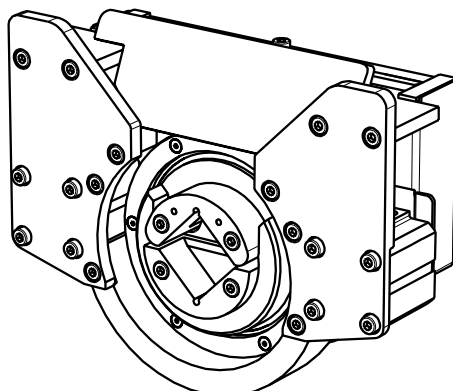
Tel.: +49 7621 9593 0
Fax: +49 7621 55184

4.31

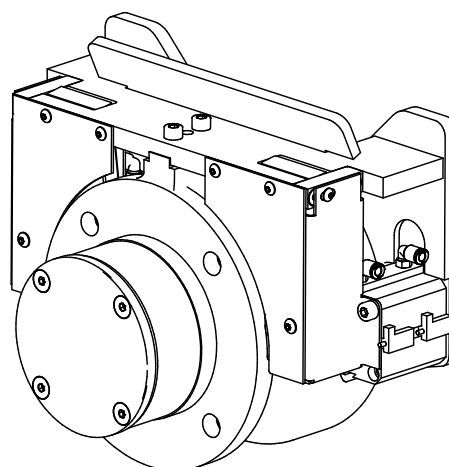
Boschert-Chuck A50 flange mounted



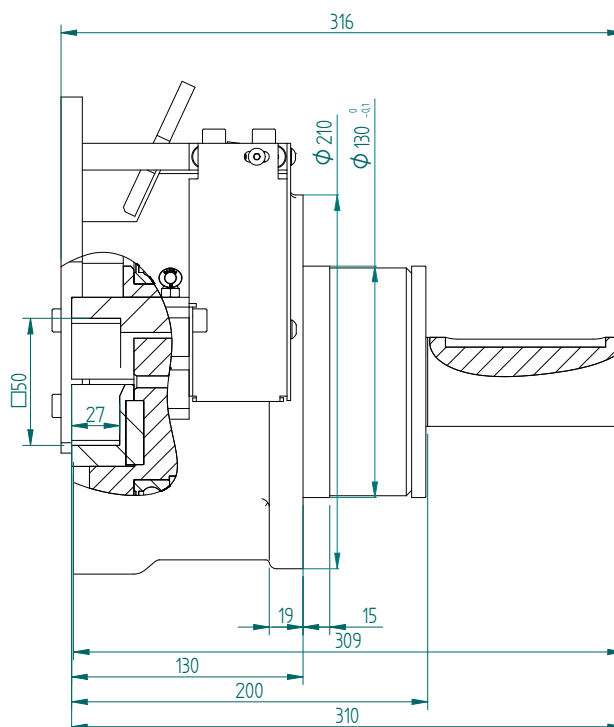
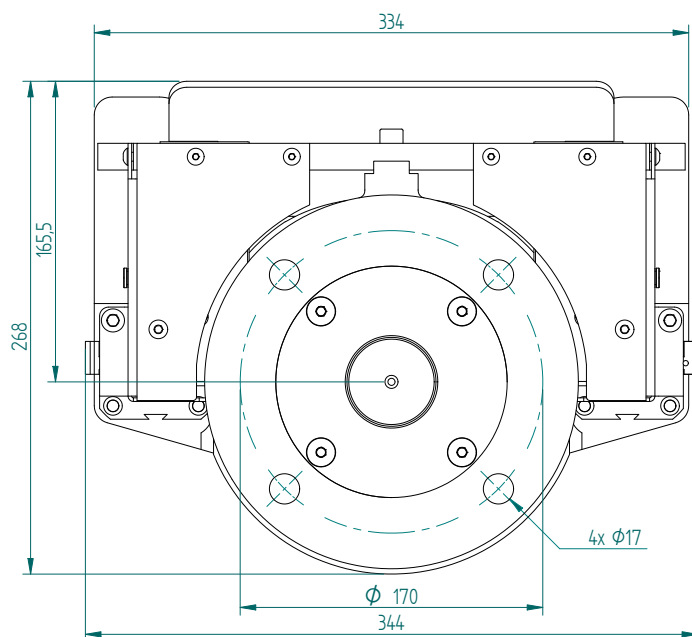
Boschert-Chuck A50



FLW A50
chuck with shaft end

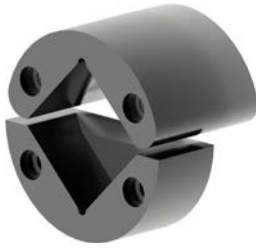


FLO A50
chuck without shaft end



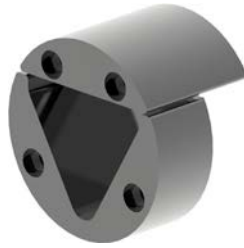
[Shaft end details page 4.33](#)

Journal shaft type



VT2

[Info 11.10](#)



VT6

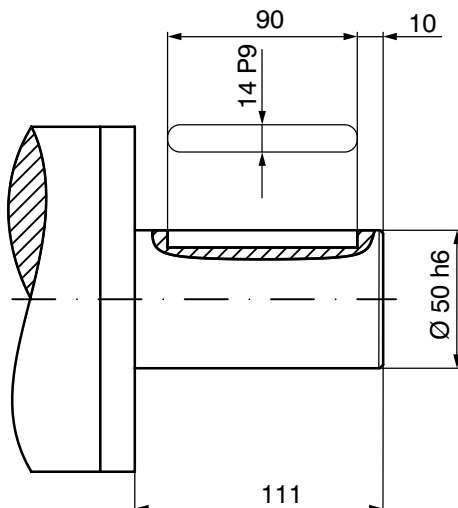
[Info 11.11](#)



VT7

[Info 11.12](#)

Shaft end

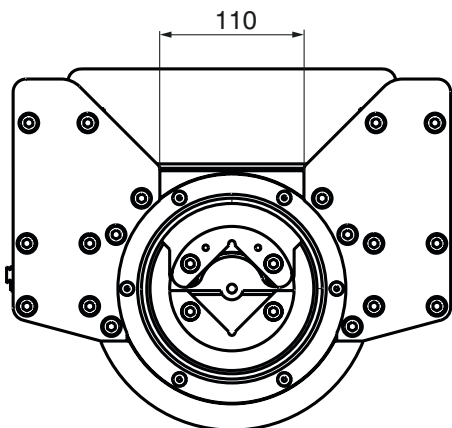


Standard shaft end

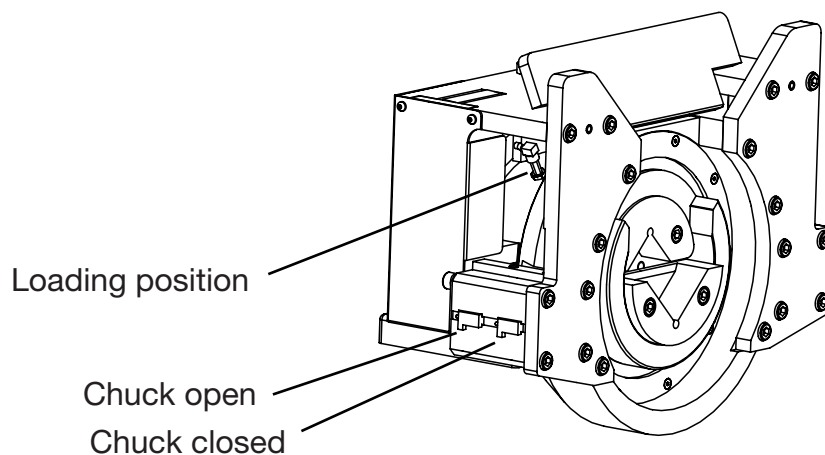
Special shaft ends per customer request

Max. shaft-dia.: Ø 50 mm
(without stop)

Opening



Proximity sensor



4.40 Boschert-Chuck A80



A80 STO

Boschert automatic chuck, foot mounted without shaft end

A80 STW

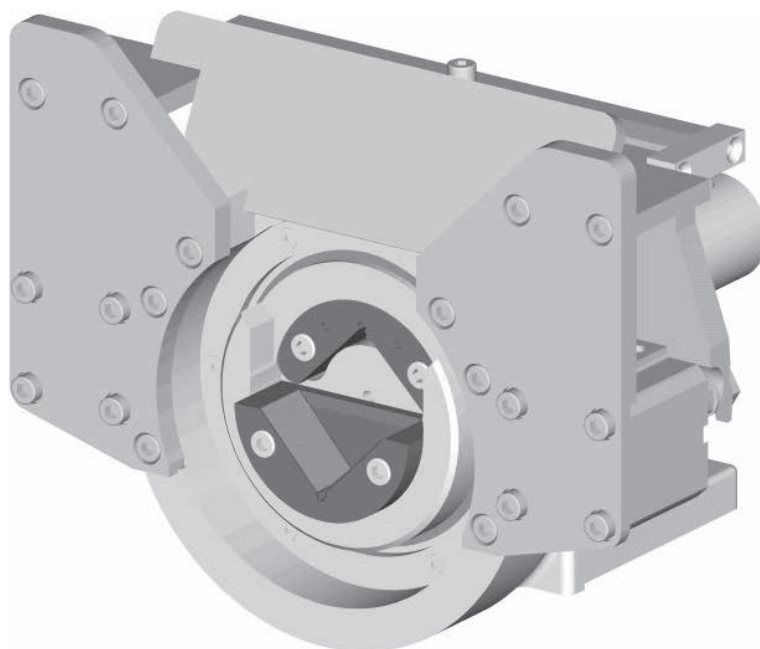
Boschert automatic chuck, foot mounted with shaft end

A80 FLO

Boschert automatic chuck, flange mounted without shaft end

A80 FLW

Boschert automatic chuck, flange mounted with shaft end



Standard Square bar:

□ 80 mm (3.1496")

max. beam weight:

□ 7000 kg (15430 lbs)

max. torque:

↻ 2350 Nm (1700 ft·lb)

Please note:

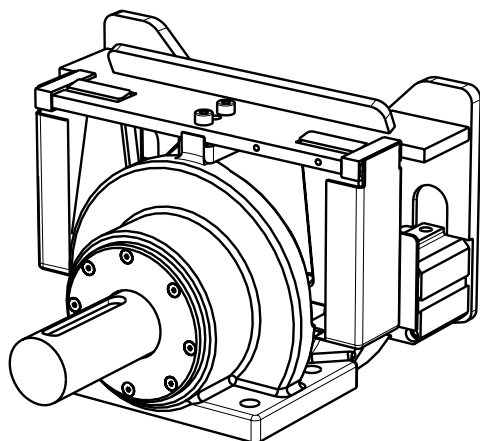
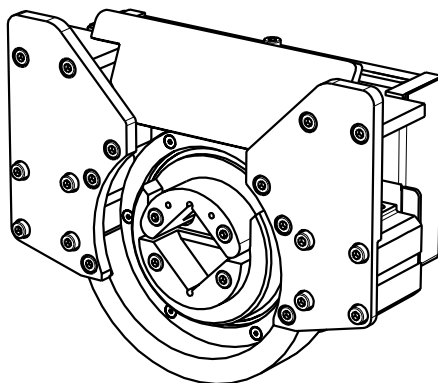
This chuck is a direct retrofit for the chuck 50-80 type VT.

		Info
Type	VT	4.43
Journal shaft type VT	VT2 / VT6 / VT7	4.43
Shaft end:	standard	4.43
Info	opening	4.43
Options:	proximity sensor	4.44
Add. parts	brakes	6.00
	clutches	7.00

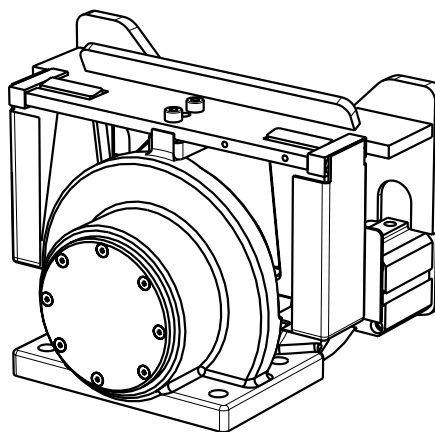
Boschert-Chuck A80 foot mounted



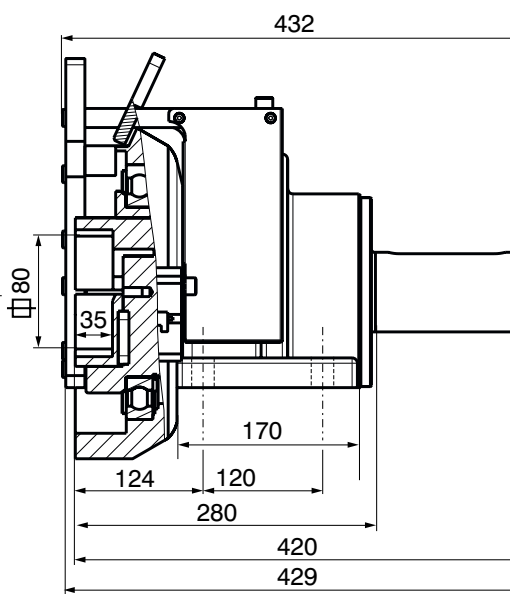
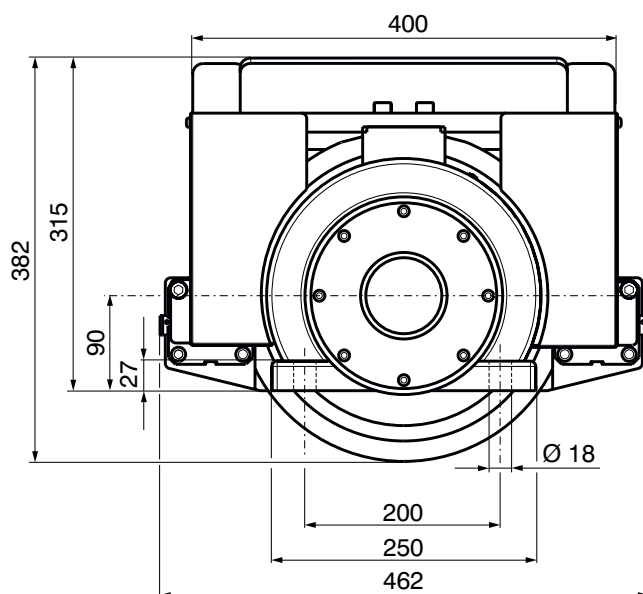
Boschert-Chuck A80



STW A80
chuck with shaft end



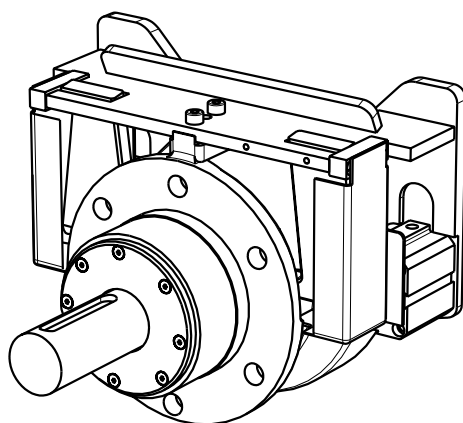
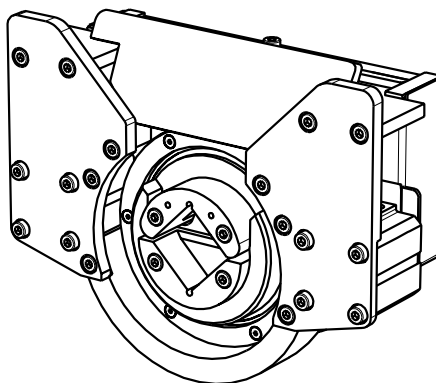
STO A80
chuck without shaft end



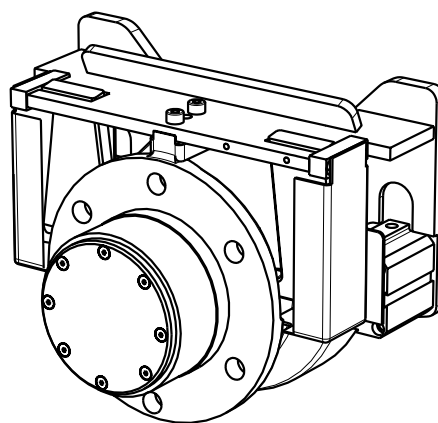
[Shaft end details page 4.43](#)

Boschert-Chuck A80 flange mounted

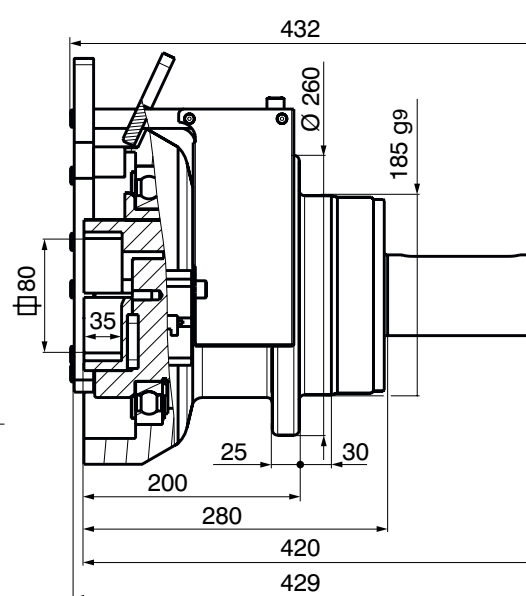
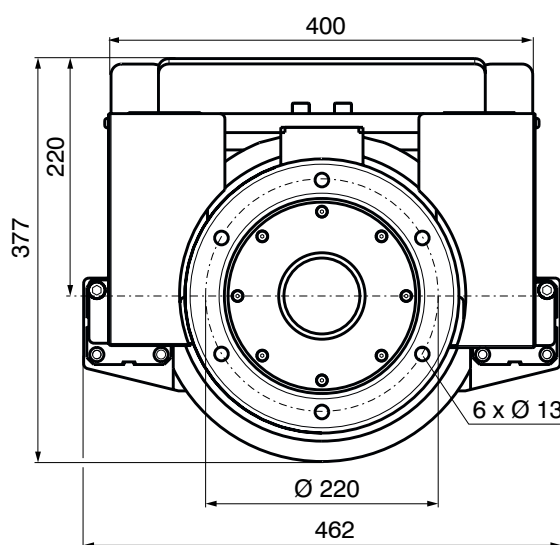
Boschert-Chuck A80



FLW A80
chuck with shaft end

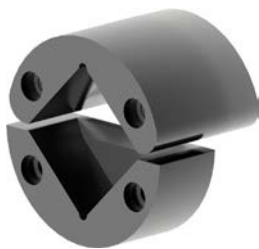


FLO A80
chuck without shaft end



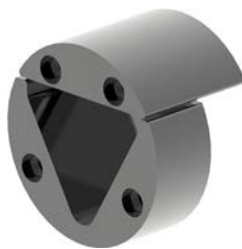
[Shaft end details page 4.43](#)

Journal shaft type



VT2

Info 11.10



VT6

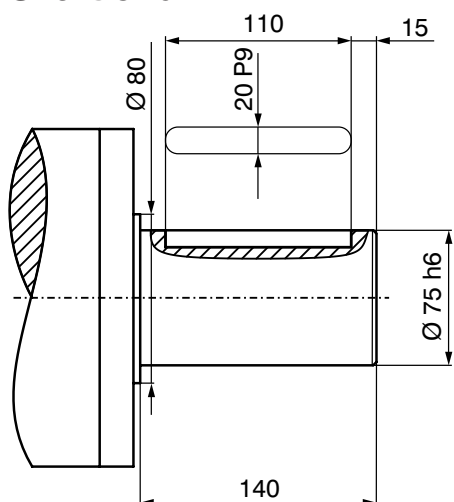
Info 11.11



VT7

Info 11.12

Shaft end

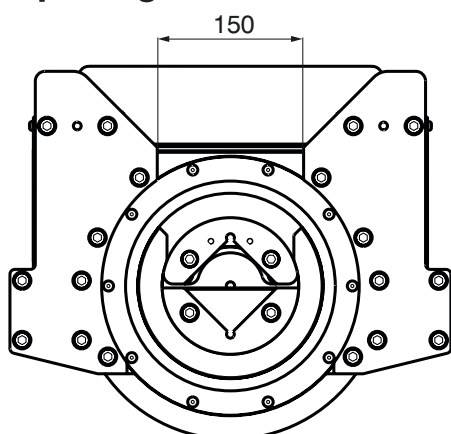


Standard shaft end

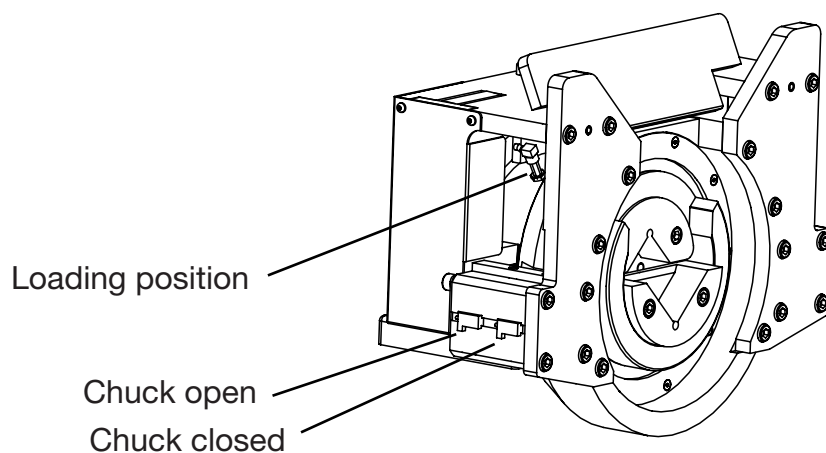
Special shaft ends per customer request

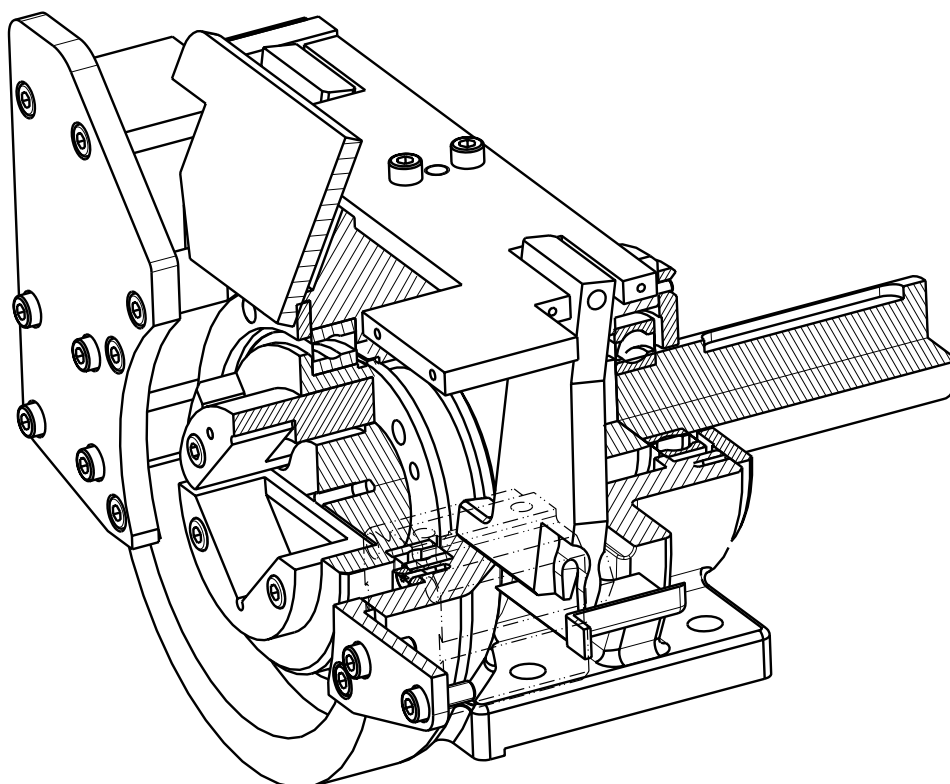
Max. shaft-dia.: Ø 80 mm
(special shaft without stop)

Opening

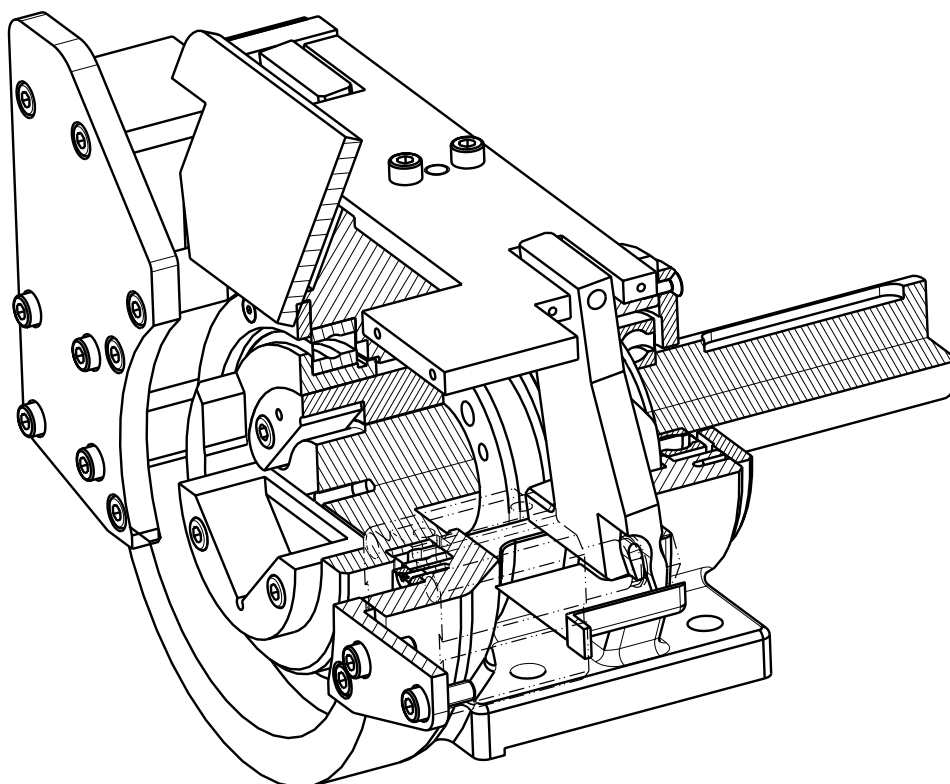


Proximity sensor





A-Chuck closed

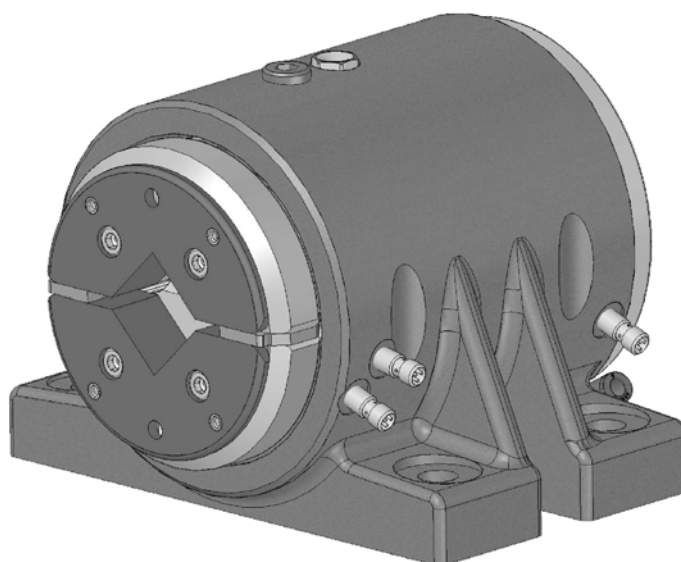


A-Chuck open

4.50 Boschert-Chuck P30



P30 STO	Boschert pneumatic chuck, foot mounted without shaft end
P30 STW	Boschert pneumatic chuck, foot mounted with shaft end
P30 FLO	Boschert pneumatic chuck, flange mounted without shaft end
P30 FLW	Boschert pneumatic chuck, flange mounted with shaft end



Standard Square bar:	30 mm	(1.1811")
max. beam weight:	800 kg	(1764 lbs)
max. torque:	180 Nm	(132.7 ft·lb)

Please note:

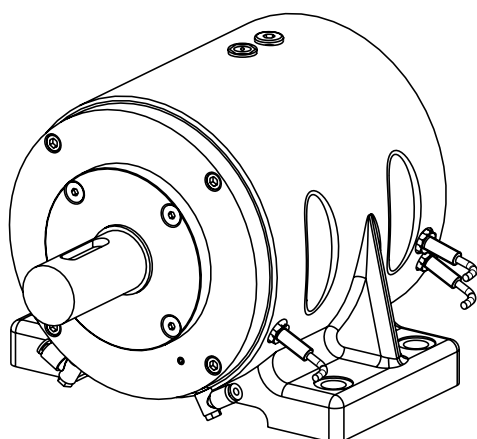
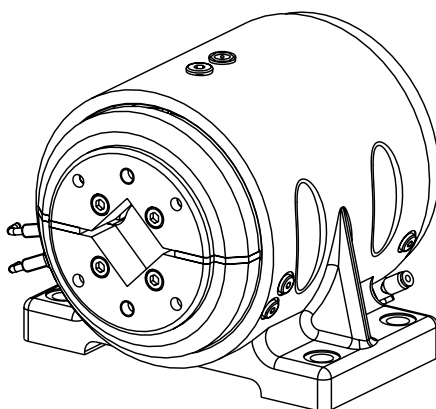
For smaller square dimensions, the data are reduced.

		Info
Type	VT	4.74
Journal shaft type VT	VT2 / VT7	4.53
Shaft end	standard	4.53
Options:	proximity sensor	4.53
Add. parts	brakes	6.00
	clutches	7.0

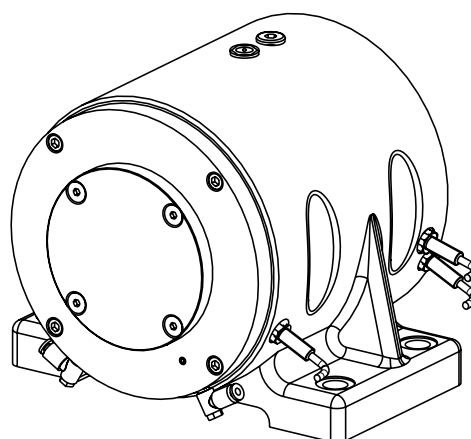
Boschert-Chuck P30 foot mounted



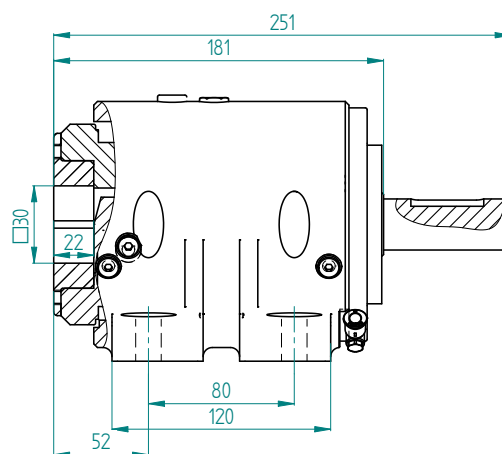
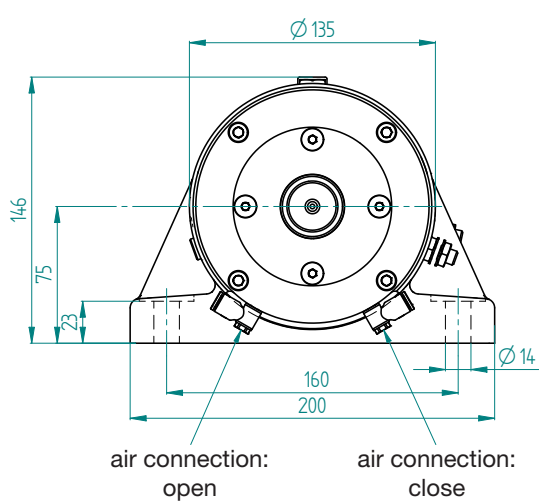
Boschert-Chuck P30



STW P30
chuck with shaft end



STO P30
chuck without shaft end

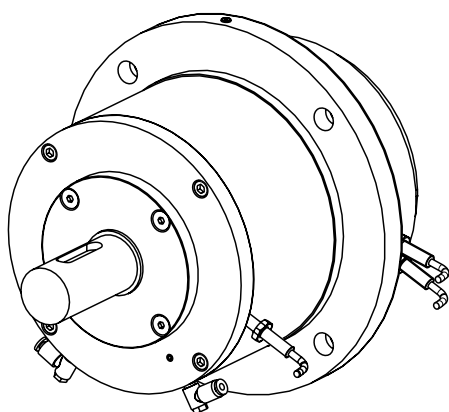
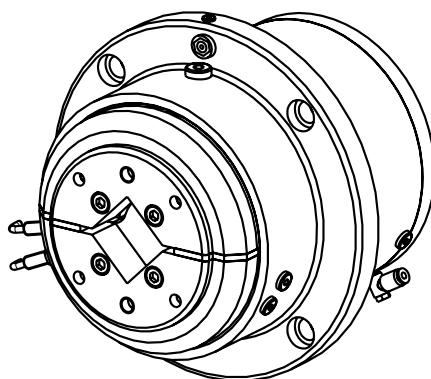


[Shaft end details Page 4.53](#)

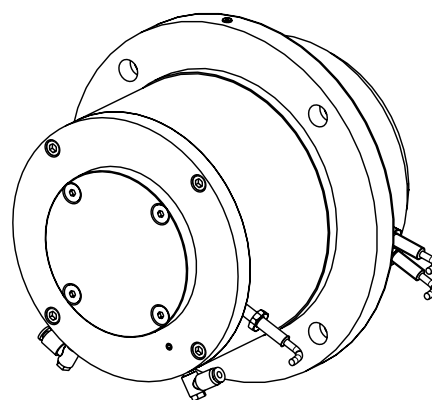
Boschert-Chuck P30 flange mounted



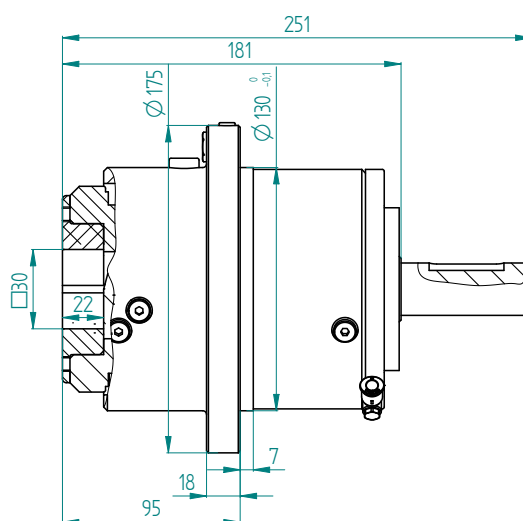
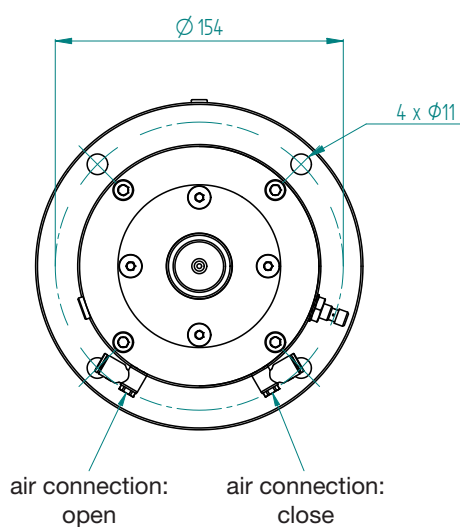
Boschert-Chuck P30



FLW P30
chuck with shaft end



FLO P30
chuck without shaft end



[Shaft end details Page 4.53](#)

Journal shaft type



VT 2

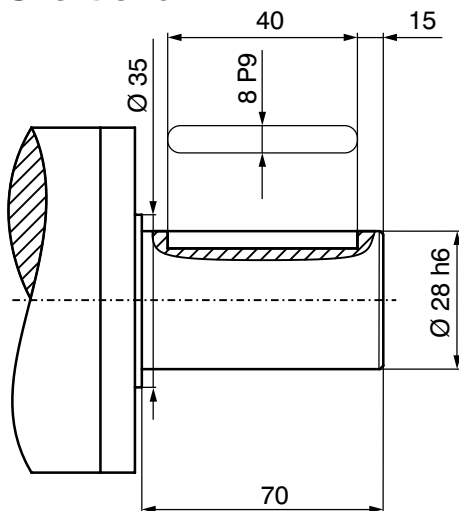
[Info 11.10](#)



VT 7

[Info 11.12](#)

Shaft end

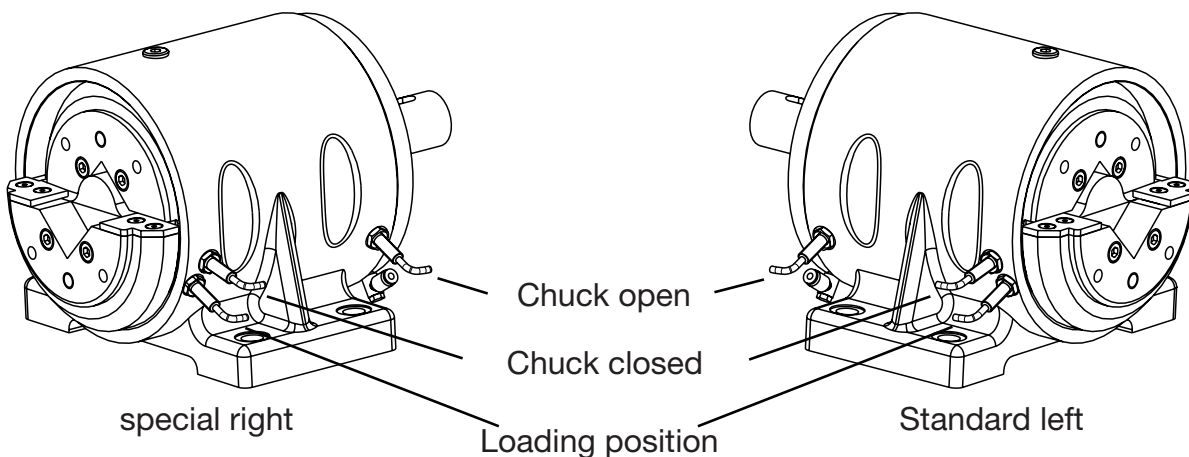


Standard shaft end

Special shaft ends per customer request

Max. shaft-dia.: Ø 35 mm
(special shaft without stop)

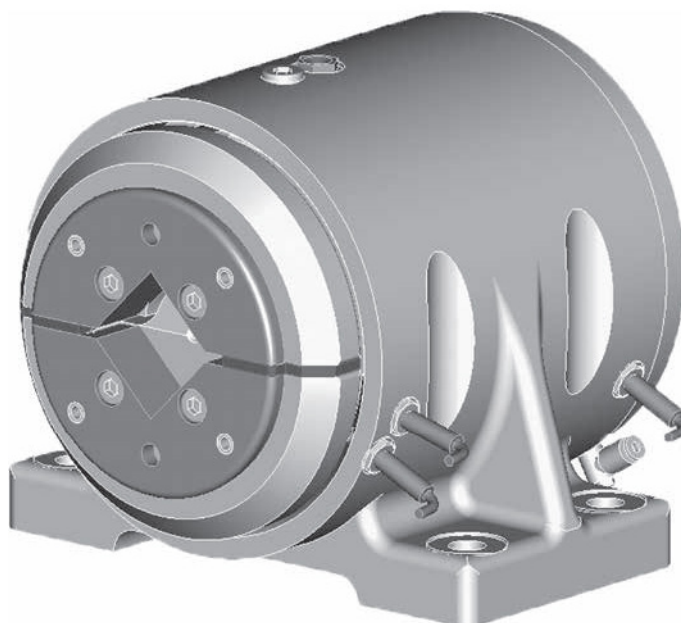
Proximity sensor



4.60 Boschert-Chuck P40



P40 STO	Boschert pneumatic chuck, foot mounted without shaft end
P40 STW	Boschert pneumatic chuck, foot mounted with shaft end
P40 FLO	Boschert pneumatic chuck, flange mounted without shaft end
P40 FLW	Boschert pneumatic chuck, flange mounted with shaft end



Standard Square bar:	40 mm	(1.5748")
max. beam weight:	1600 kg	(3530 lbs)
max. torque:	350 Nm	(258.1 ft·lb)

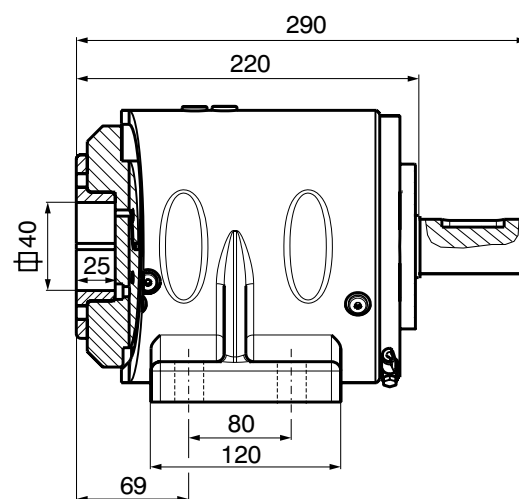
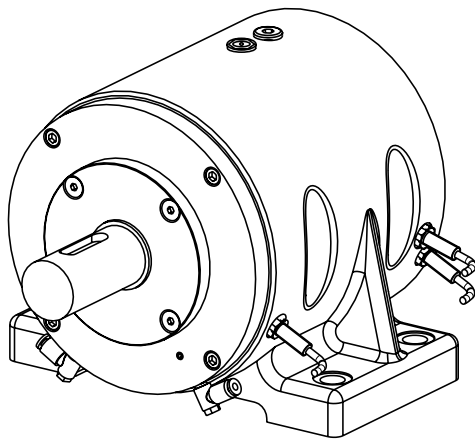
Please note:

For smaller square dimensions, the data are reduced.

	max. Beam weight	max. torque
30 mm	1200 kg (2650 lbs)	250 Nm (184.4 Ft·lb)

		Info
Type	VT	4.74
Journal shaft type VT	VT2 / VT7	4.63
Shaft end	standard	4.63
Options:	proximity sensor	4.63
Add. parts	brakes	6.00
	clutches	7.0

This diagram shows the front panel of the device, which is a cylindrical component. It features a central rectangular cutout and a circular array of eight small holes. The panel is shown being attached to a mounting bracket using four screws. Two additional screws are shown separately, indicating they are used to secure the panel to the back of the device.

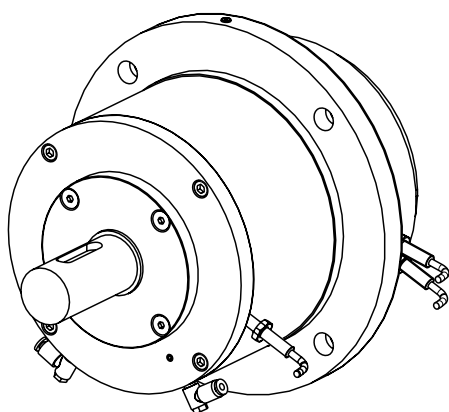
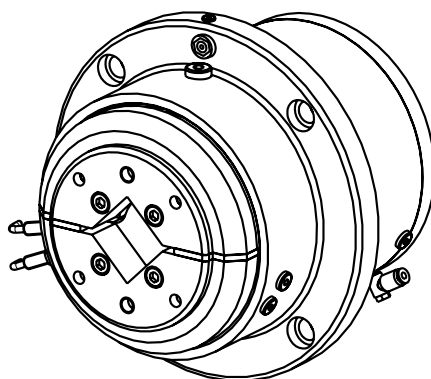


4.61

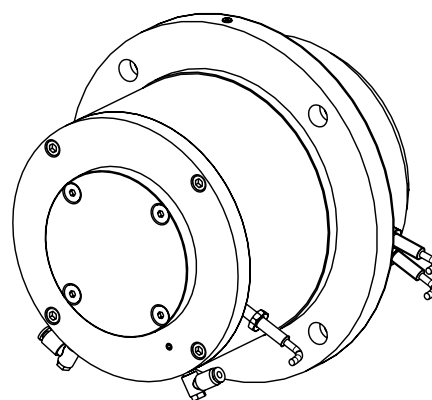
Tel.: +49 7621 9593 0
Fax: +49 7621 55184

Boschert-Chuck P40 flange mounted

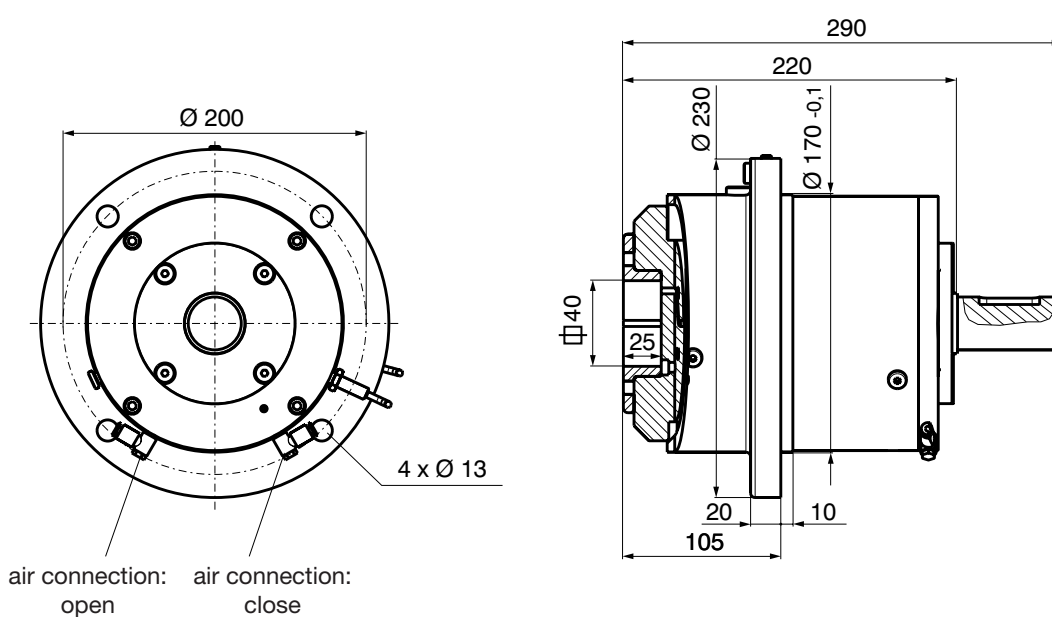
Boschert-Chuck P40



FLW P40
chuck with shaft end



FLO P40
chuck without shaft end



[Shaft end details Page 4.63](#)

Journal shaft type



VT 2

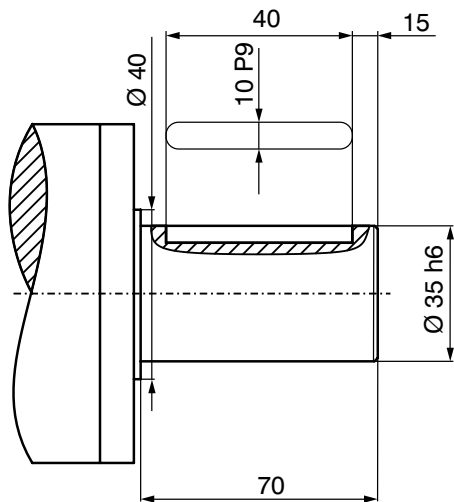
[Info 11.10](#)



VT7

[Info 11.12](#)

Shaft end

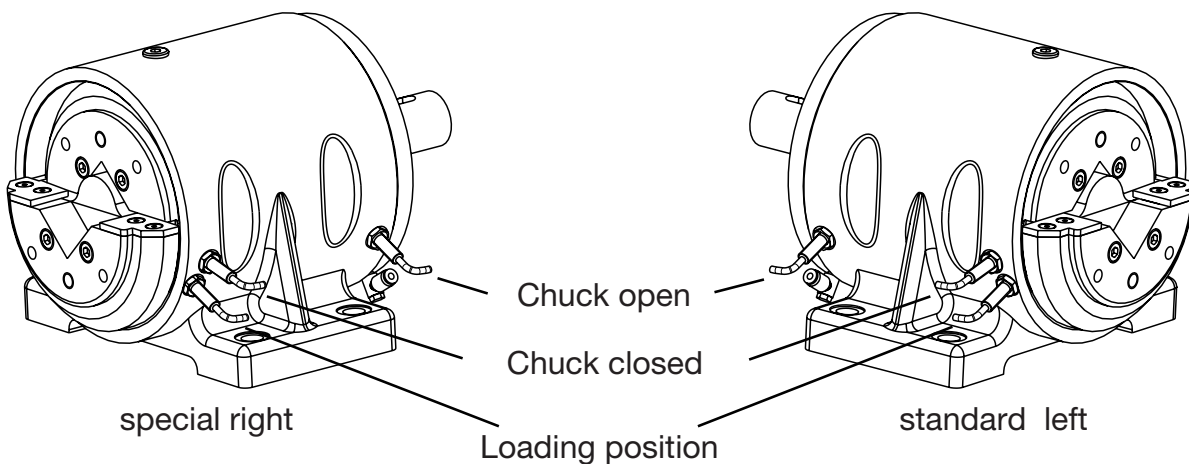


Standard shaft end

Special shaft ends per customer request

Max. shaft-dia.: Ø 40 mm
(special shaft without stop)

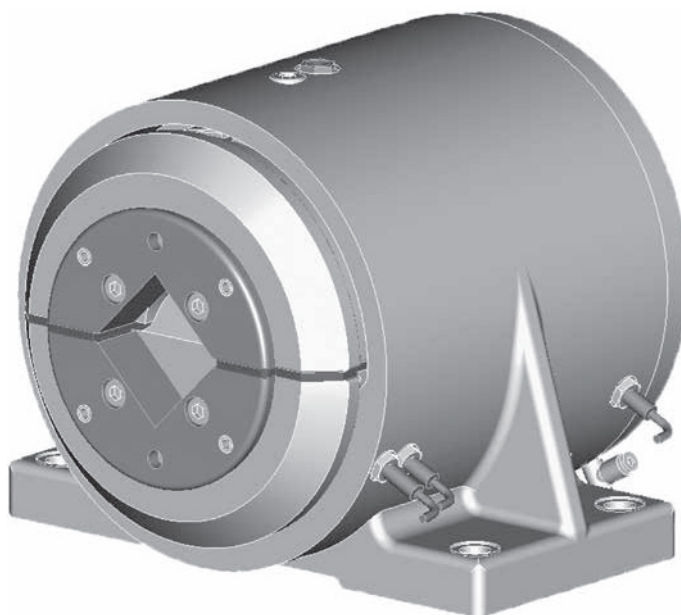
Proximity sensor



4.70 Boschert-Chuck P50



P50 STO	Boschert pneumatic chuck, foot mounted without shaft end
P50 STW	Boschert pneumatic chuck, foot mounted with shaft end
P50 FLO	Boschert pneumatic chuck, flange mounted without shaft end
P50 FLW	Boschert pneumatic chuck, flange mounted with shaft end



Standard Square bar:	50 mm	(1.9685")
max. beam weight:	2800 kg	(6170 lbs)
max. torque:	1100 Nm	(800.1 ft·lb)

Please note:

For smaller square dimensions, the data are reduced.

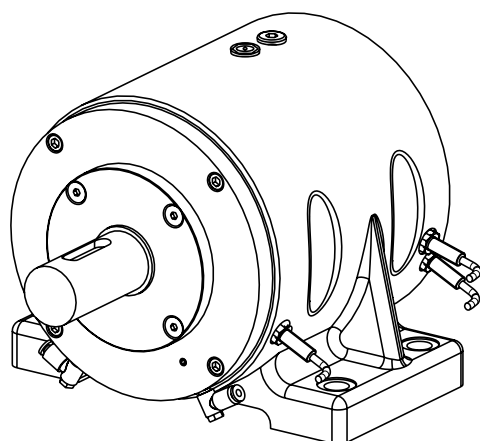
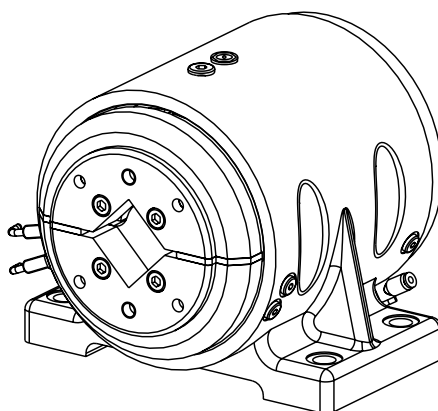
	max. Beam weight	max. torque
40 mm	2000 kg (4410 lbs)	700 Nm (516.3 ft·lb)
45 mm	2400 kg (5290 lbs)	900 Nm (516.3 Ft·lb)

Type	Info
VT	4.74
Journal shaft type VT	VT2 / VT7 4.73
Shaft end	standard 4.73
Options:	proximity sensor 4.73
Add. parts	brakes 6.00
	clutches 7.0

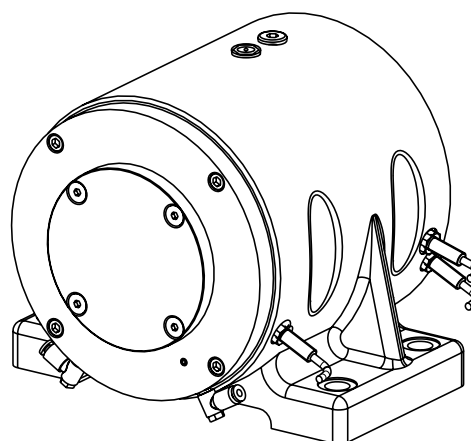
Boschert-Chuck P50 foot mounted



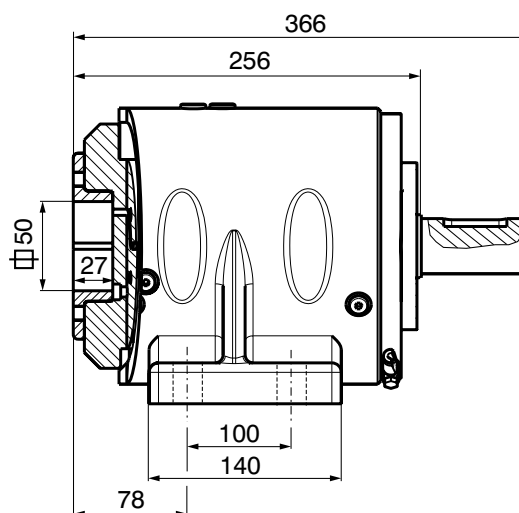
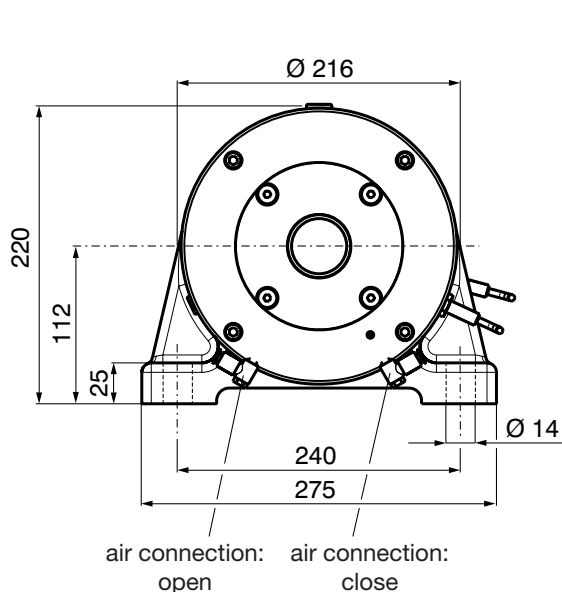
Boschert-Chuck P50



STW P50
chuck with shaft end



STO P50
chuck without shaft end

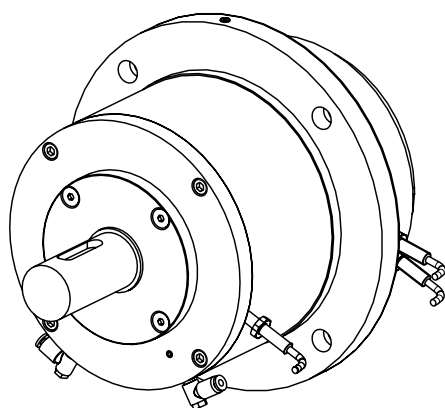
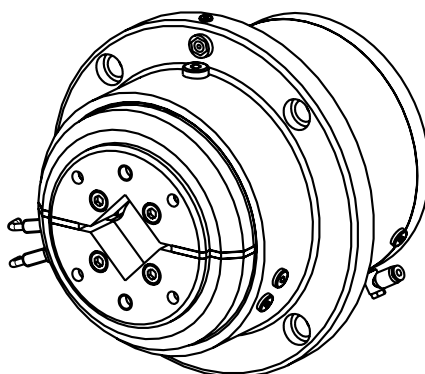


[Shaft end details Page 4.73](#)

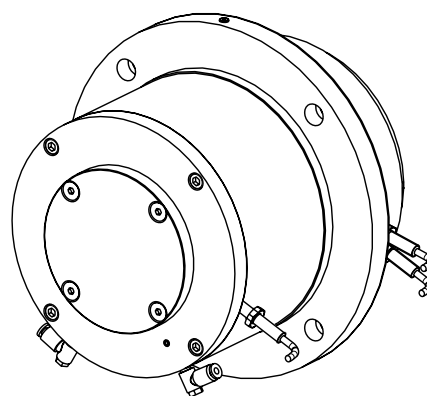
Boschert-Chuck P50 flange mounted



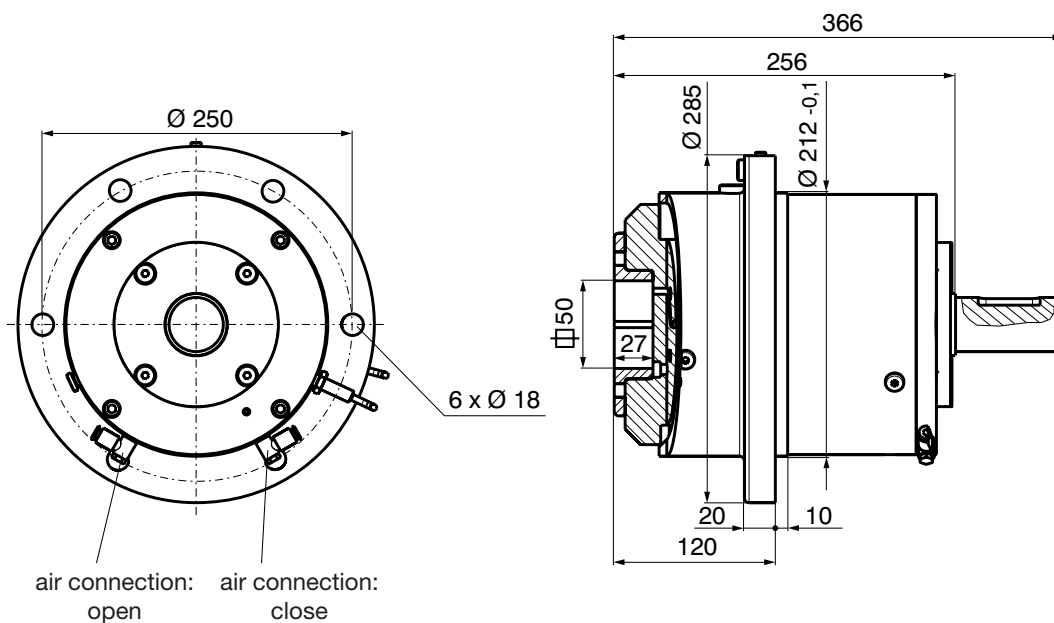
Boschert-Chuck P50



FLW P50
chuck with shaft end



FLO P50
chuck without shaft end



[Shaft end details Page 4.73](#)

Journal shaft type



VT 2

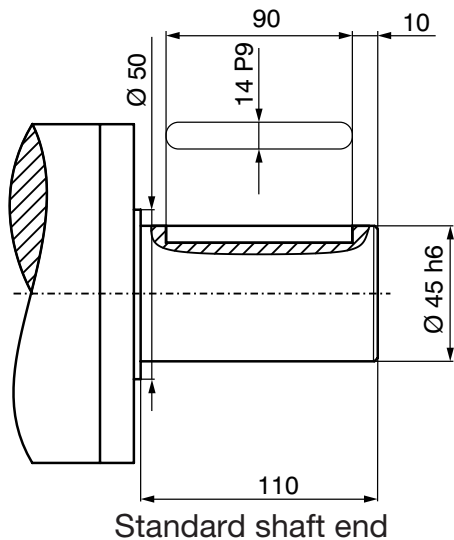
[Info 11.10](#)



VT7

[Info 11.12](#)

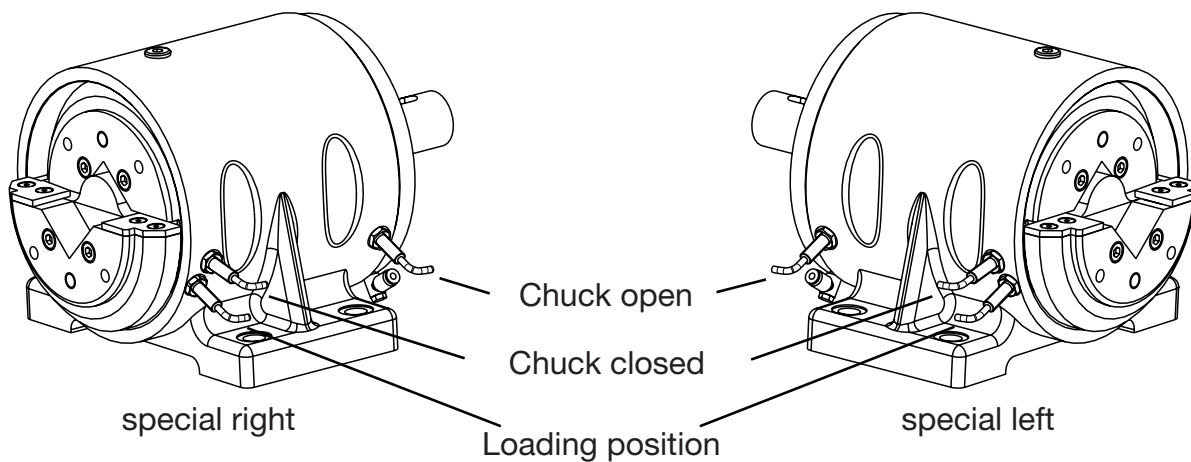
Shaft end

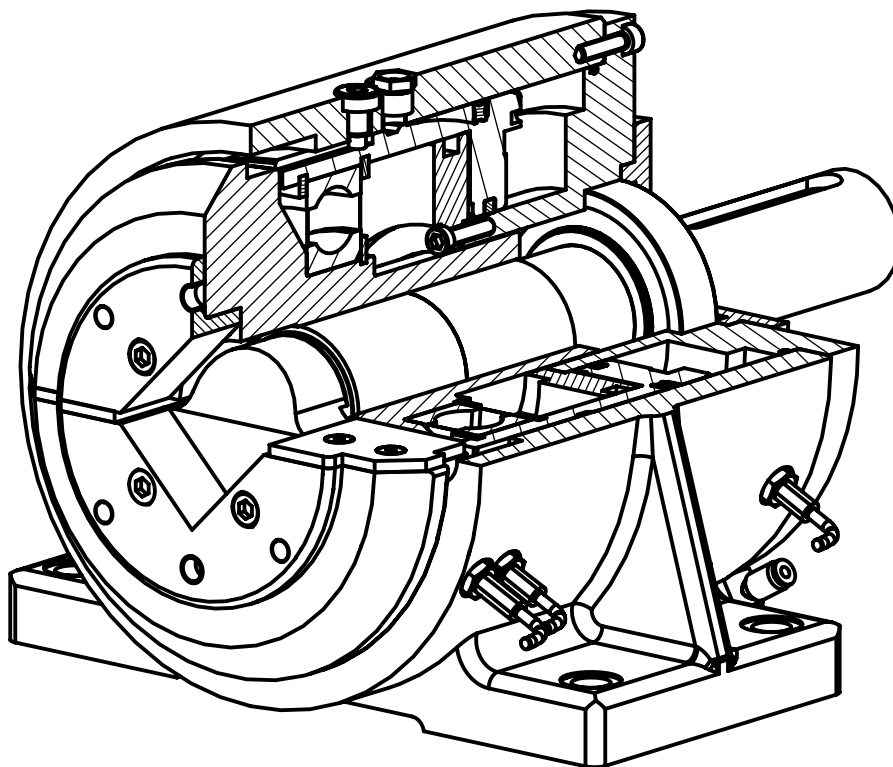


Special shaft ends per customer request

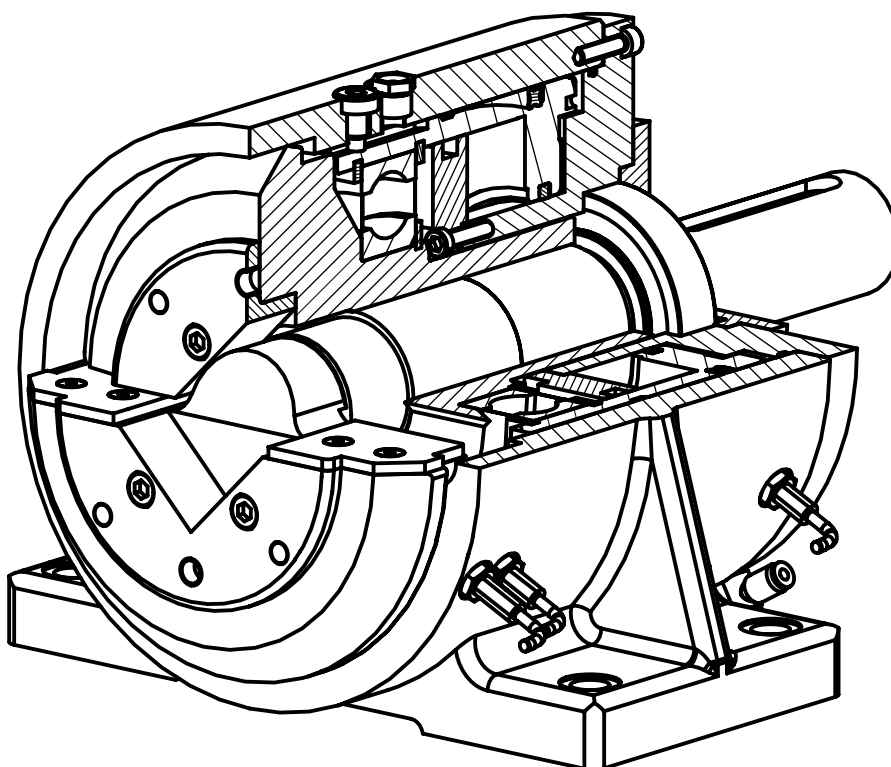
Max. shaft-dia.: Ø 50 mm
(special shaft without stop)

Proximity sensor

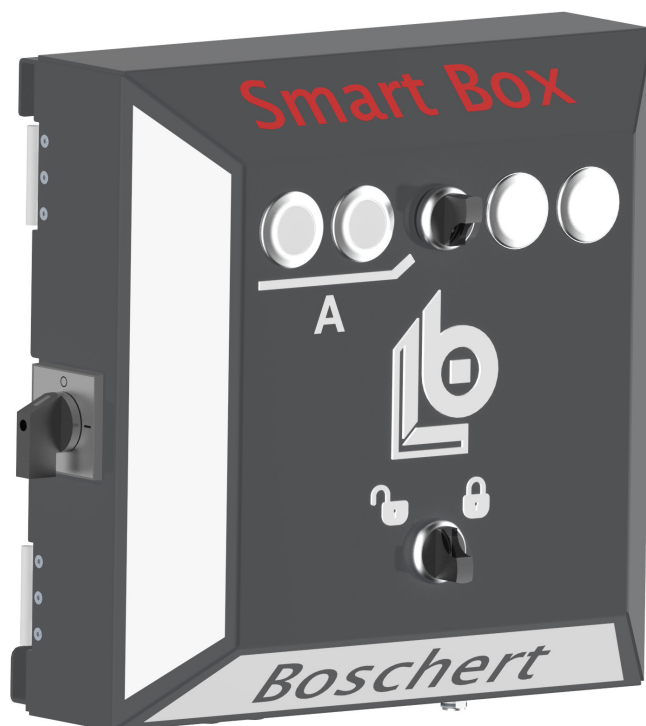




P-Chuck closed



P-Chuck open



Smart Box:
Standard solution for one roll

Description:

The latest development of controls is the Boschert Smart Box. This can be used for the completely selfsufficient operation of pneumatic operated chucks. With integrated sensor monitoring and controlled light signals, a winding station can be automated without intervention in a machine control system. Also there is a Smart Box Twin where you can operate 2 winding stations from 1 control.

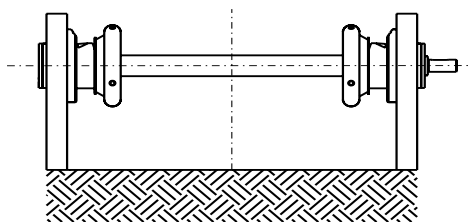
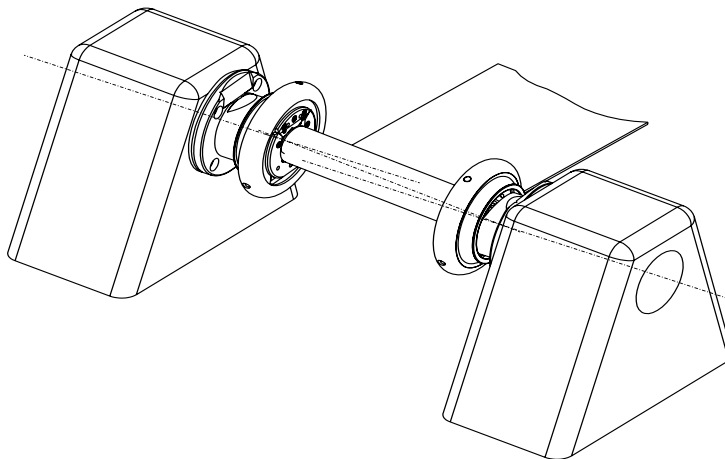
Technical data	
Control box (W x H x D):	325 x 300 x 120 mm
Energie:	100 - 240 V AC
Compressed air:	max. 7 bar (105 psi) filtered 0.3 µm
Output pressure:	
Output signals:	2 (potential free)
Enclosure:	

Options:

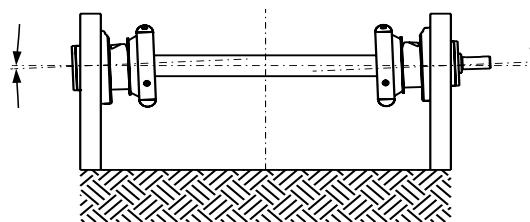
Smart Box Twin: The solution for two rolls

Further solutions on request.

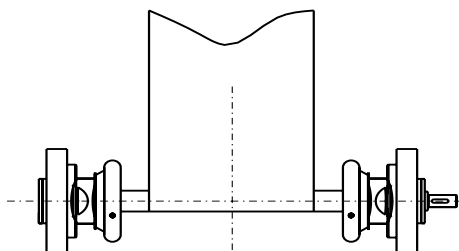
5.00 Assembly Instruction



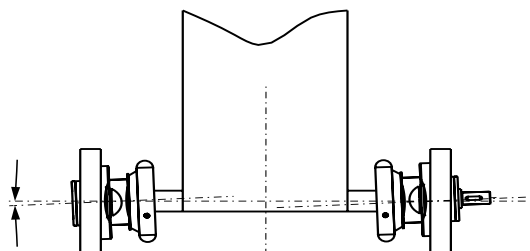
right



wrong



right



wrong

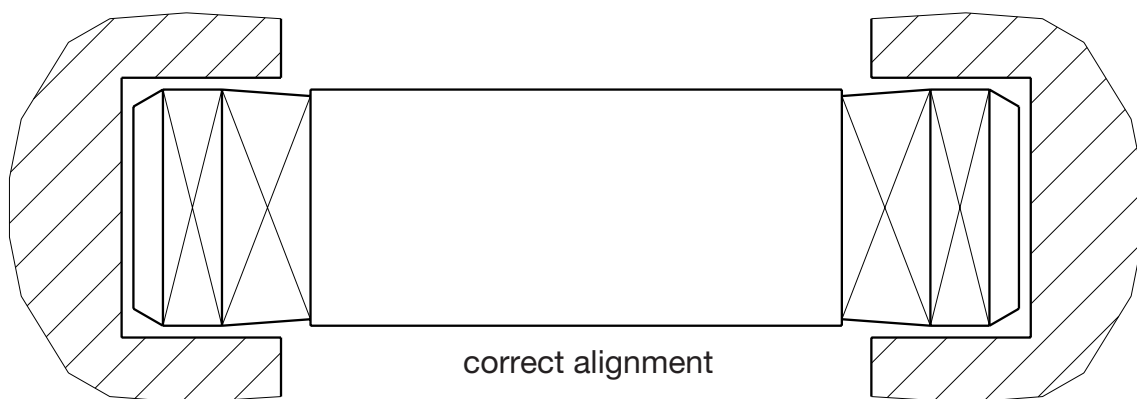
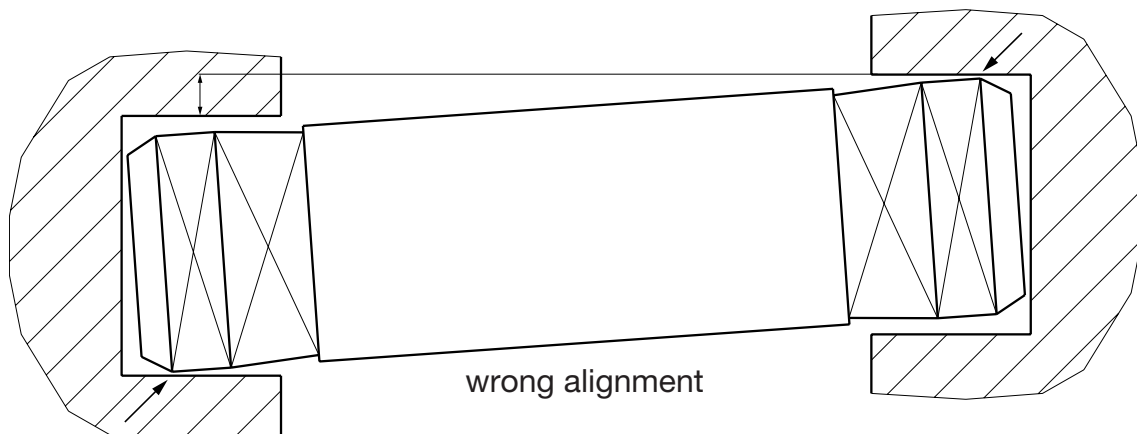
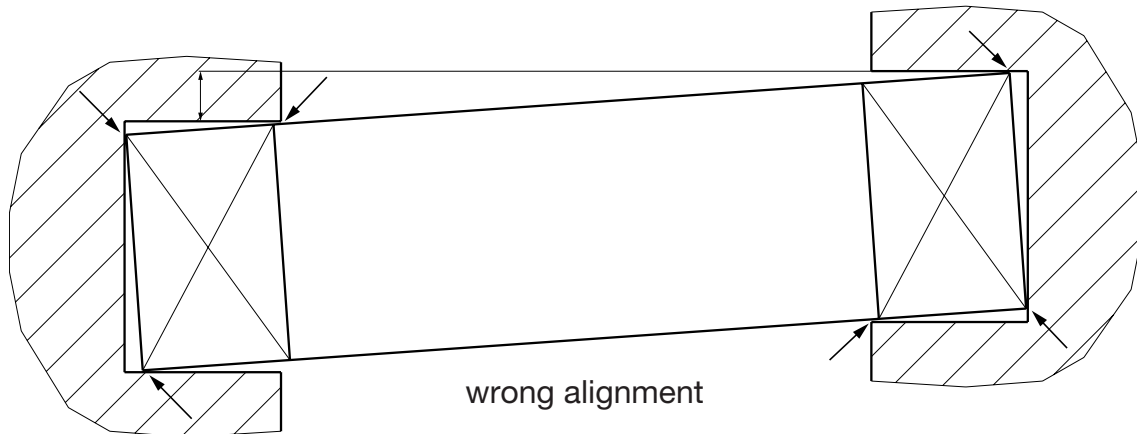
- Boschert Chucks have to be mounted in an alignment
- please make sure that the winding shafts are mounted in the same height and same distance

- Please check if the winding shaft is installed correct and in alignment.
There are cases where the winding shaft is installed correct and in alignment, but the Boschert Chucks are mounted incorrectly (no alignment). You have to expect that the square pocket of the Boschert Chuck will wear very fast.

The result are vibrations of the stand or the machine.

Precise alignment of the Chucks protects against increased wear. Any misalignment will affect the life of both the Safety Chucks and the shaft ends.

Boschert cannot provide any warranty if the chucks are not mounted as recommended.



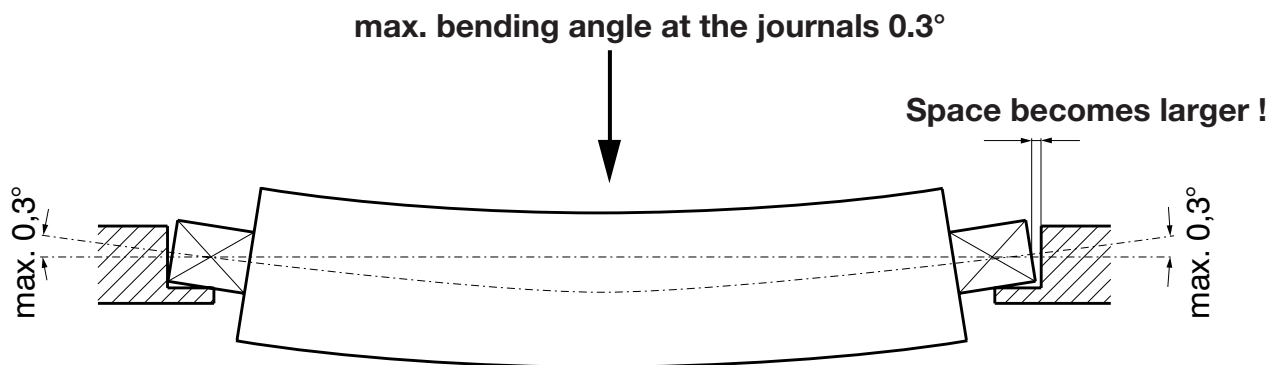
Advantages of close tolerances - Selection of the winding bar

Here especially measure „x“ [see page 11.00](#)

Only slight axial space between safety chuck and winding bar results in troublefree winding.

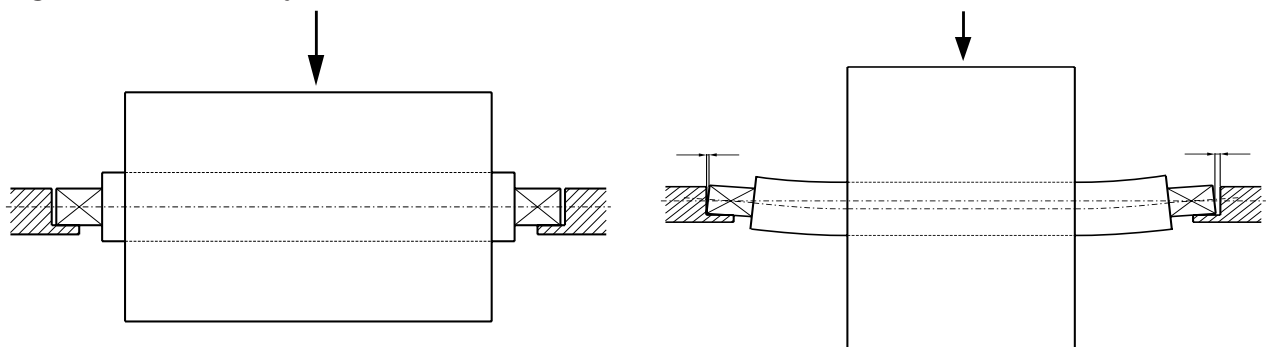
On the other hand, there has to be enough space to put the winding bar in. Since the space differs from application to application, we show the main influences on examples:

Wrong choice of winding shaft - deflection too big.



Different roll widths on the same winding shaft

The width of a roll effects the deflection of the roll shaft. A narrow width roll on a long roll shaft is more likely to cause deflection, than a roll which is nearly the same width as the length of the roll body.



Effect of narrow width roll on roll shaft

1. Manufacturer

Boschert GmbH & Co. KG
Mattenstrasse 1
79541 Lörrach-Hauingen, Germany
Tel.: +49 7621 9593 0
Fax: +49 7621 55184

2. Range of application

Boschert Safety Chucks are used to wind and unwind all different web materials. It is possible to work with Boschert Safety Chucks in temperatures between - 30 degrees and +80 degrees Celsius. For temperatures which are not in this range, you need a special permission from the manufacturer.

2.1 General view

Boschert Safety Chucks consist of two assembly groups:

Housing, shaft + handwheel

With help of the tilting handwheel the roll shaft can be inserted very fast.

To guarantee a safe supporting of the winding shaft, the Boschert Safety Chucks are provided with three safety-systems.

- a) The spring-ball in the handwheel hold it closed during operation. It is not a lock.
- b) The housing of the chuck has a slope which prevents the handwheel opening in a wrong position.
- c) A finger-guard which is fixed on the handwheel makes access to the pinch point behind the hand wheel impossible.

2.2 Position of operator

During operation of the machine, the operator should stay clear of the winding shaft.

2.3 Noises

During operation, the Boschert Safety Chuck does not produce any noises.

2.4 Emissions

The Safety Chuck doesn't emit radiation, gas, exhaust or dust.

2.5 Electrical device

You don't need any electrical equipment to work with the chuck.

3. Transport

For transport a rust protection has to be applied. The chucks have to be protected against mechanical damage.

4. Putting into operation

4.1 Installation

Please fix the Boschert Safety Chucks with help of the bolt holes provided. Please be sure that the alignment is correct. No more than 0.3° misalignment. It is imperative that the handwheel can be opened in the top position (12 o'clock position).

4.2 Foundations

There are no special demands for the foundation.

4.3 Space

Please be sure that there is a good accessibility to the handwheel.

4.4 It is not allowed to work with the chucks in:

- bad surroundings (corundum abrasive dust)
- acid air
- acid steam
- temperatures less than - 30 degr. / more than 80 degr. Celsius

4.5 Safety measure

User has to make sure, that the finger-guard is fixed to the handwheel. The handwheel of the chuck has always to be opened and closed by hand.

5. Working with the chuck

5.1 Function

The only part to adjust on the Boschert Safety Chuck is the handwheel. Move the handwheel back for changing the winding shaft. The handwheel has to be closed before starting the machine. To change the winding shaft, a lifting device is recommended. While insert the shaft in the square bar please go sure that no bodily parts are between winding material and Safety chuck.

5.2 Equipment, modification

After modification and changing the machine, please check the function of the slope of the housing and of the spring and ball detent system.

5.3 Risks

A dangerous situation occurs when the material has to be changed, the chuck is not fully opened and the winding shaft is lifted up one sided. The result is a load which can destroy the Boschert Safety Chuck, through the leverage effect. While closing the Safety Chuck please go sure that there are no bodily parts between winding material and Safety Chuck.

6. Servicing

To guarantee a safe work environment, following checks have to be made weekly:

- a) Is finger-guard still fixed on the handwheel
- b) Does the ball-spring-locking device keep the handwheel closed safely
- c) Check if the chamfer still works properly.

To do this, please remove the winding shaft. Turn the closed, but unloaded Safety Chuck 180°, so that the handwheel opening is at the bottom. Try to open the handwheel in this position.

Does the handwheel stop at the housing after 1-2 mm (0.0394" - 0.0787")?

If yes this is perfect.

Does the handwheel move more than 2 mm (0.0787"), the chuck has to be checked frequently, due to wear and tear.

Does the handwheel move more than 5 mm (0.1969"), the chuck has to be put out of operation instantly.

- d) Check centering seat of hinge pin
- e) Check seat of the fastening screws

By appearance of failures during above checkups, the Safety Chuck instantly has to be put out of operation and has to be repaired.

7. Disassembling

If it is necessary to disassemble the chuck, please note that each shaft and the corresponding handwheel are a set - and are signed with identically engraved numbers. Please take care to assemble the parts with the similar engraved numbers. A mix-up of the parts will cause an incorrect movement and stress the chucks

8. Spare parts

Please use only original spare parts. Boschert uses harmonized materials in proofed quality. Don't economize on quality.

The demand for higher speed and bigger torque led to the development of the VT-insert. All safety chucks from size 22-30 up to 80-120 can be delivered from BOSCHERT with VT-inserts (wearing-parts). Chucks size from 120-180 up to 170-230 are provided with wear plates.

Important features of the VT-Chucks are:

- changing of VT wearing parts can be carried out in just a few minutes without removing the safety chuck from the machine. This is helpful by reducing down time.
- easy change to other square sizes by replacing the VT wearing parts in the same chuck (except 50-80 VT6).
- VT-parts can be supplied hardened by customers request or in soft condition, to protect the more expensive winding shafts.
- low stock-keeping costs of the VT-parts.
- possibility from one geometry to another (SQ. to VT6 or VT7).

The user of custom shaft ends should consider chucks with VT inserts. This will ensure a fast delivery of spare parts.

The VT-wearing parts are available from stock in most standard sizes, while, the delivery-time for shafts, especially with special shaft end, has to be arranged.

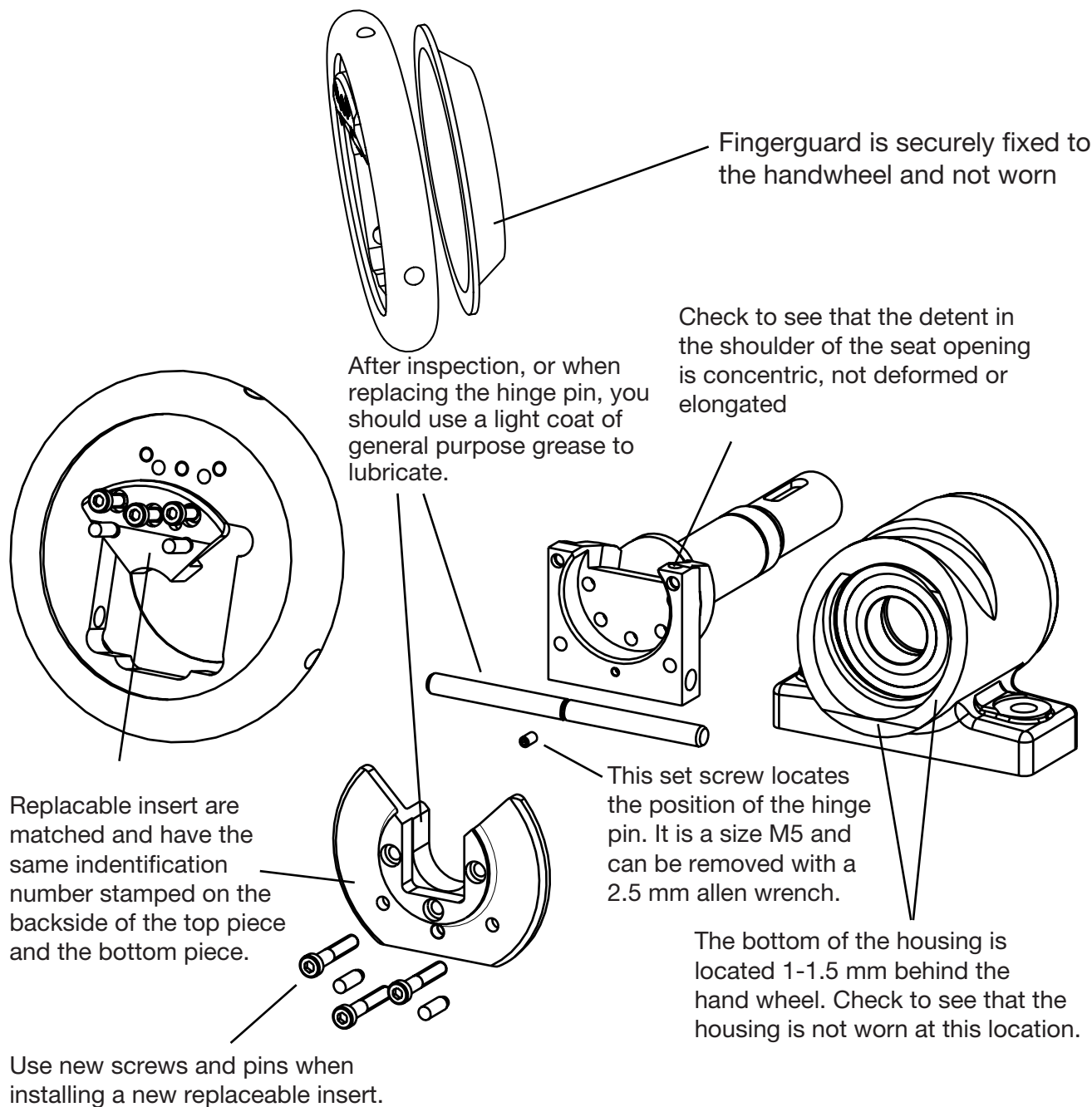
We recommend to put one or more sets of VT-wearing parts on stock to be used in case of an emergency.

Please consider that C-Chucks subsequently cannot be fitted with VT-inserts. However it is possible to convert C-Chucks to VT-Chucks by changing the shafts and handwheels.

Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value
max. torque = 0.7 x catalogue value

For maintenance and repair of Boschert Safety Chucks please check the following items:



Manual Safety Chucks have to be closed by hand !

Top- and bottom part of the VT-inserts are identically marked.
Please take care of this when changing the VT-inserts.

Boschert Safety Chucks are a safe technical equipment and are manufactured with accuracy and precision.

Boschert Safety Chucks can be in service for years if they are handled with care and if they are maintained continuously.

Boschert Safety Chucks are safety-proofed by the institution for statutory accident insurance and prevention in the printing and paper processing industry.

Incorrect use can release a high risk of accident.

Does the handwheel tumble during operation? This is a clear sign that the handwheel tries to open in the lower position.

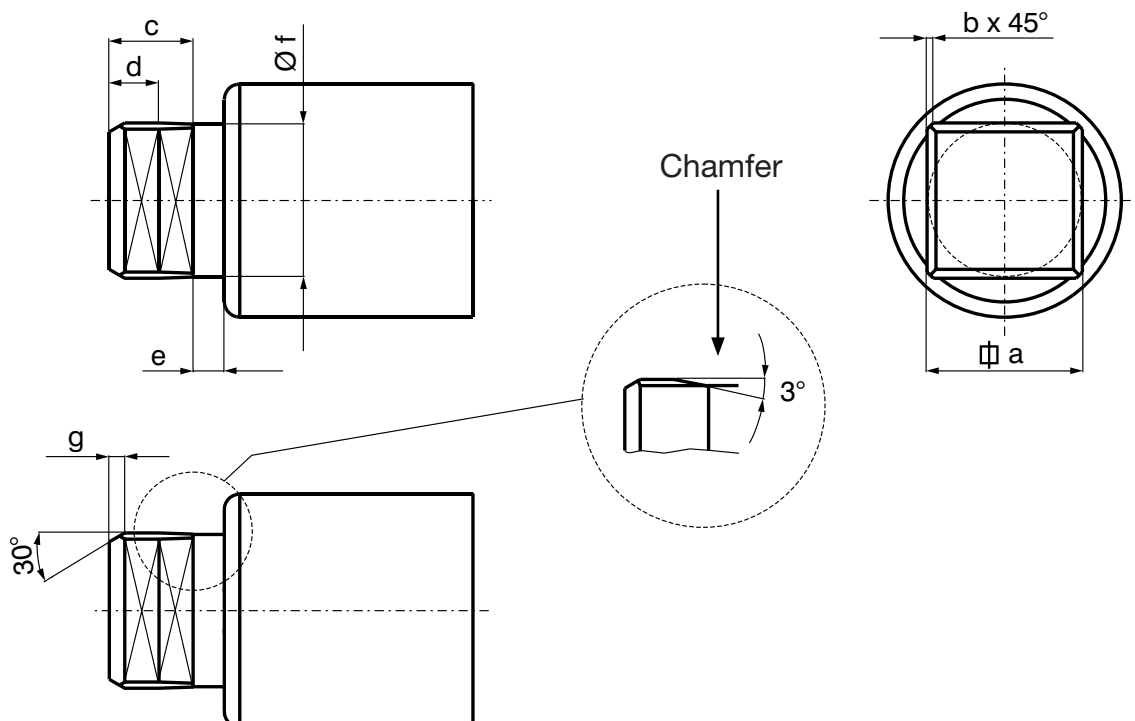
This will cause that the chamfer to be damaged and the winding beam will fall out of the Safety Chuck.

The Safety Chuck has instantly to be changed.

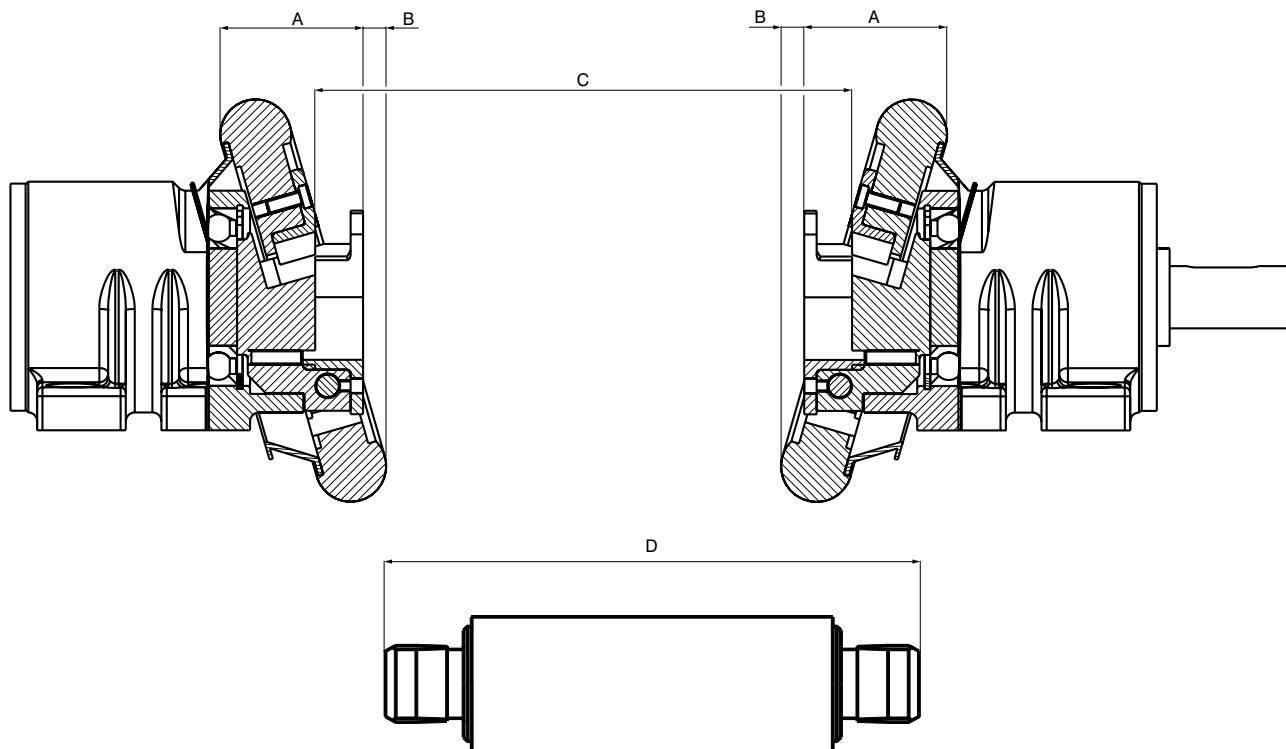
That which causes the handwheel to open has to be analyzed and eliminated.

Possible source of fault:

1. The journal was not made per our specification. There is no chamfer on the journal.



2. Axial wear on the winding shaft is too big (max. 1 mm).



	A	B	$x=(C-D)$	$y=(C-D)$
Mini	38	8	0.5	1
19-25	54	9	0.5	1
22-30	61	8	0.5	1
30-40	73	13	0.5	1
40-50	81	13	0.5	1
80-80	106	16	0.5	1
80-120	145	18	0.5	1
120-180	175	24	1	2
170-230	230	18	1	2

x = min. clearance
y = max. clearance

What to do when the axial wear is too big:

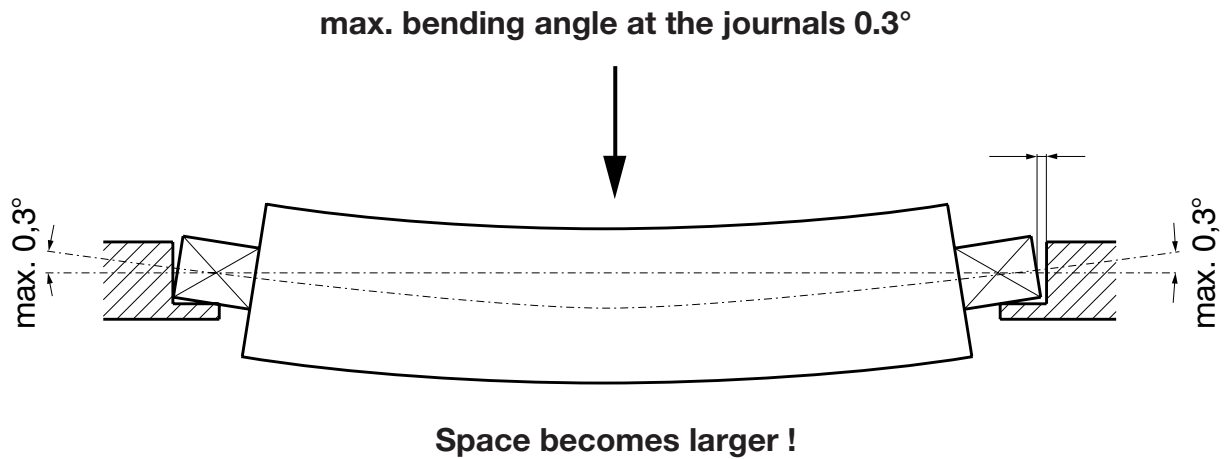
On flange chucks:

Place spacer washers between fixing flange and machine frame.

On foot mounted chucks:

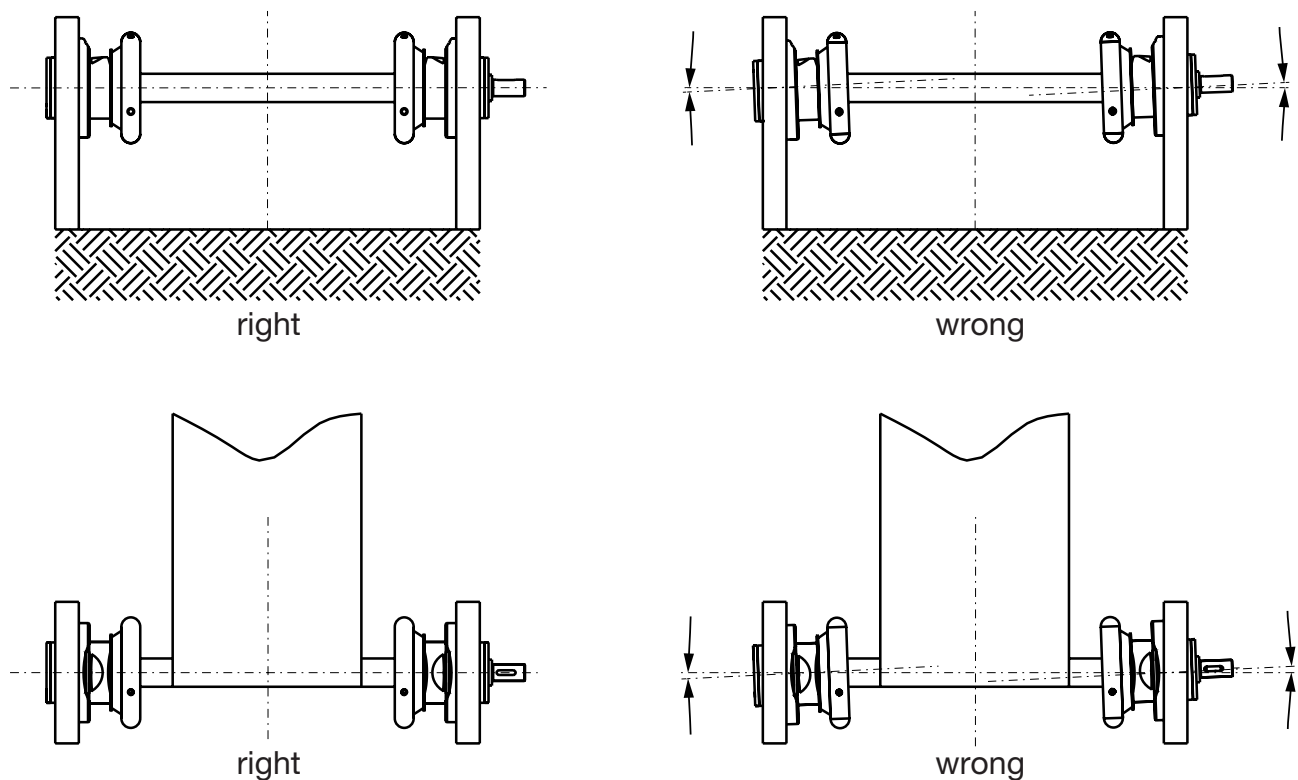
Loosen the fixing screws and modify the clearance of the chucks.

3. Deflection of the winding shaft is bigger than specified (max. 0.3°).



4. Weight and torque are bigger than the max. value.

5. Wrong alignment



Reasons are an incorrect assembly or a weak machine frame.

We are always available to help with the analysis of errors.

5.20 Trouble shooting

Error description	Possible faults
It is difficult to open and close the hand wheel	The journal was not made to specification as shown on catalogue page 2.10 - The journal tolerance is incorrect - There is no chamfer on the ends of the roll shaft - Bent hinge pin - The Safety Chucks are not in alignment - The roll shaft is deflecting and bending up in the seat of the Safety Chuck. The seats of the Safety Chucks have been rounded by wear and the roll shaft journals are cocked in the seats causing binding.
Unloaded roll shaft is difficult to rotate when in the Safety Chucks	- The journal tolerance is incorrect - The Safety Chucks are not in alignment - The roll shaft journals are out of alignment with each other
The roll shaft is difficult to install or remove from the Safety Chucks. The roll shaft is stuck in the seat of the Safety Chucks	- The journal tolerance is incorrect - The Safety Chucks are not in alignment - Not enough tolerance between the overall length of the roll shaft and the distance between the Safety Chuck - The seats of the Safety Chucks have been rounded by wear and the roll shaft journals are cocked in the seats causing binding
The journal is worn. The seat of the Safety Chuck is worn.	- Excessive weight and/or excessive torque - Limitations to VT2 insert not complied with - Overload of the chuck - The hardness of the journal and the hardness of the seat of the Safety Chuck are not compatible - The Safety Chucks are not in alignment

Error description	Possible faults
Noisy operation	The mounting surfaces for the Safety Chucks are not level or are misaligned - The roll shaft journal is falling inside the seat of the Safety Chuck - There is tramp material caught between the hand wheel and the housing
Empty Safety Chucks are difficult to rotate by hand	The ball bearings are worn out - A drive or brake is engaged on Safety Chucks - The hinge pin is bent inside the hand wheel (see page 5.04 item 5.3)
The handwheel opens during operation. There is black powder around the housing. There is a groove in the back side of the handwheel. The bottom of housing, at the front side, has been worn away Warning: This is a dangerous situation. The roll shaft can now fall out. 	- no undercut of the journal - axial wear too big - deflection of the winding shaft too big - too much weight or torque - wrong alignment - weight or torque reduction has not been considered at VT2

6.00 Brake schedule

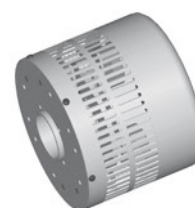


	ESB	DSB	Multi 500	Multi 1500	Multi 3000
VT-/C-Chuck	Nm* / (Nm**) ft·lb* / (ft·b**)	Nm* / (Nm**) ft·lb* / (ft·b**)	Nm per callipers / (Nm***) ft/lb* / (ft/b**)	Nm per callipers / (Nm***) ft/lb* / (ft/b**)	Nm per callipers / (Nm***) ft/lb* / (ft/b**)
Mini	30 / 22				
19-25	40/(90) / 29/(65)				
22-30	40/(90) / 29/(65)		50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
30-40	40/(90) / 29/(65)	200/(440)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
40-50	50/(110) / 36/(80)	200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
50-80		200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
Sliding-chuck					
22-30	40/(90) / 29/(65)		50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
30-40	40/(90) / 29/(65)	200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
40-50	50/(110) / 36/(80)	200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
Series A					
A40	40/(90) / 29/(65)	200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
A50	50/(110) / 36/(80)	200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
A80		200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
Series P					
P40		200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)
P50		200/(440) / 140/(320)	50/(300) / 36/(220)	80/(640) / 58/(460)	120/(1200) / 87/(870)

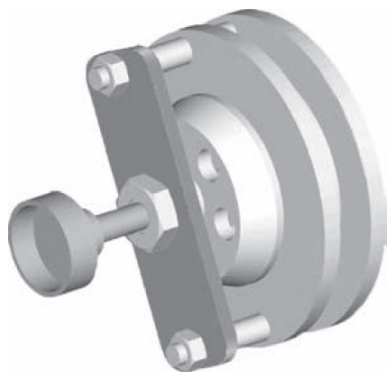
All data is on a basis of 5 bar (15 psi) pressure.



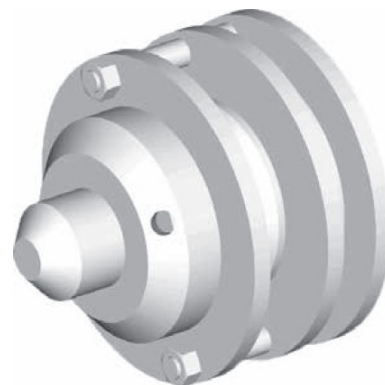
- * max. brake torque
- ** with membrane cylinder II
- *** with max. no. of callipers



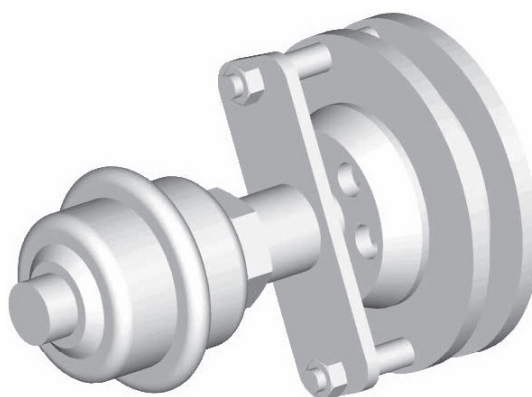
Single disc brake type ESB mini



Single disc brake manual



Single disc brake pneumatic

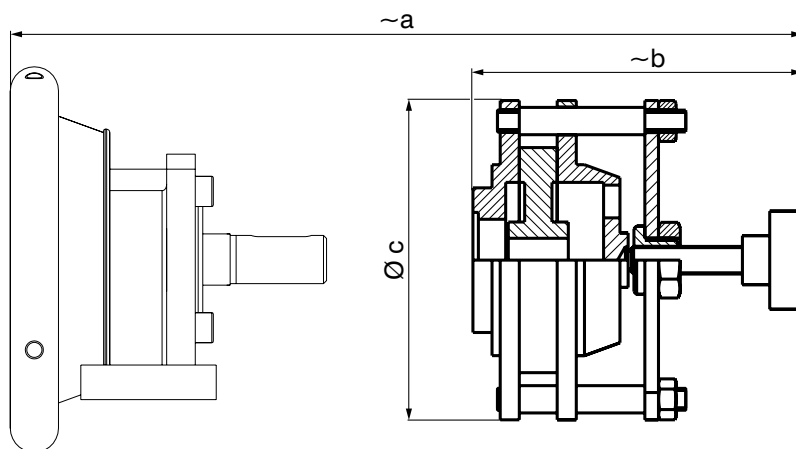


Single disc brake with membrane cylinder I

	ESB Mini		
	manual	pneumatic	membrane I
type mini			
performance kW (h.p.)	0.1 (0.134)	0.1 (0.134)	0.1 (0.134)
max. brake torque Nm (ft·lb)	30 (22.1)	30 (22.1)	30 (22.1)

All data is on a basis of 5 bar (14.5 psi) pressure.

Mini Chuck with manual single disc brake

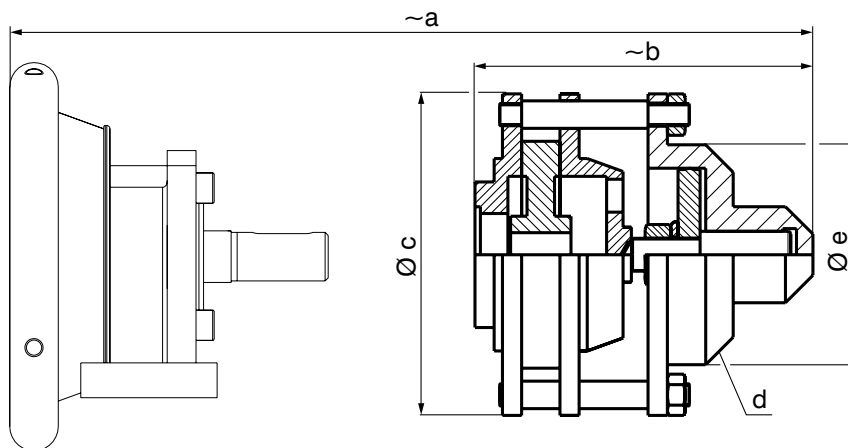


picture of chuck just symbolic

	a	b	c
Mini Chuck + ESB manual	174	110	117

[Dimension schedule for Boschert-Chuck see chapter 2.00](#)

Mini Chuck with pneumatic single disc brake

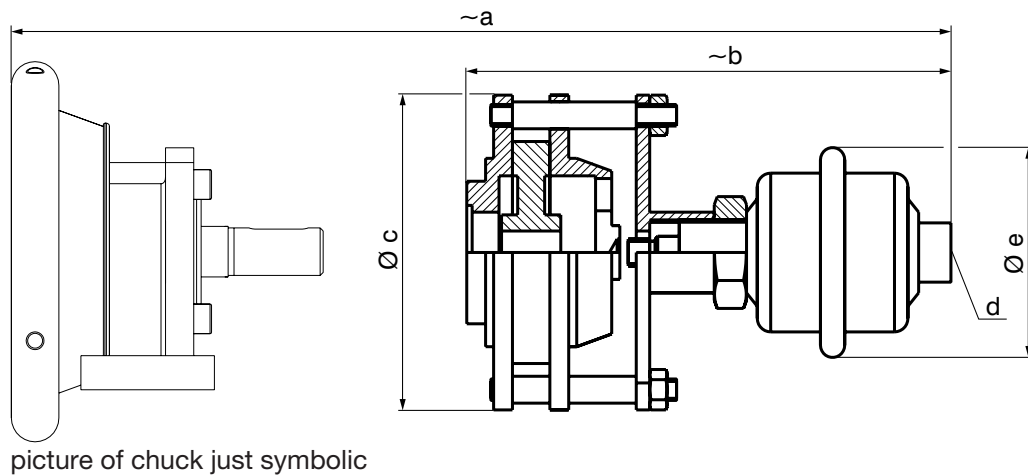


picture of chuck just symbolic

	a	b	c	d	e
Mini Chuck + ESB pneumatic	192	125	117	G 1/8	80

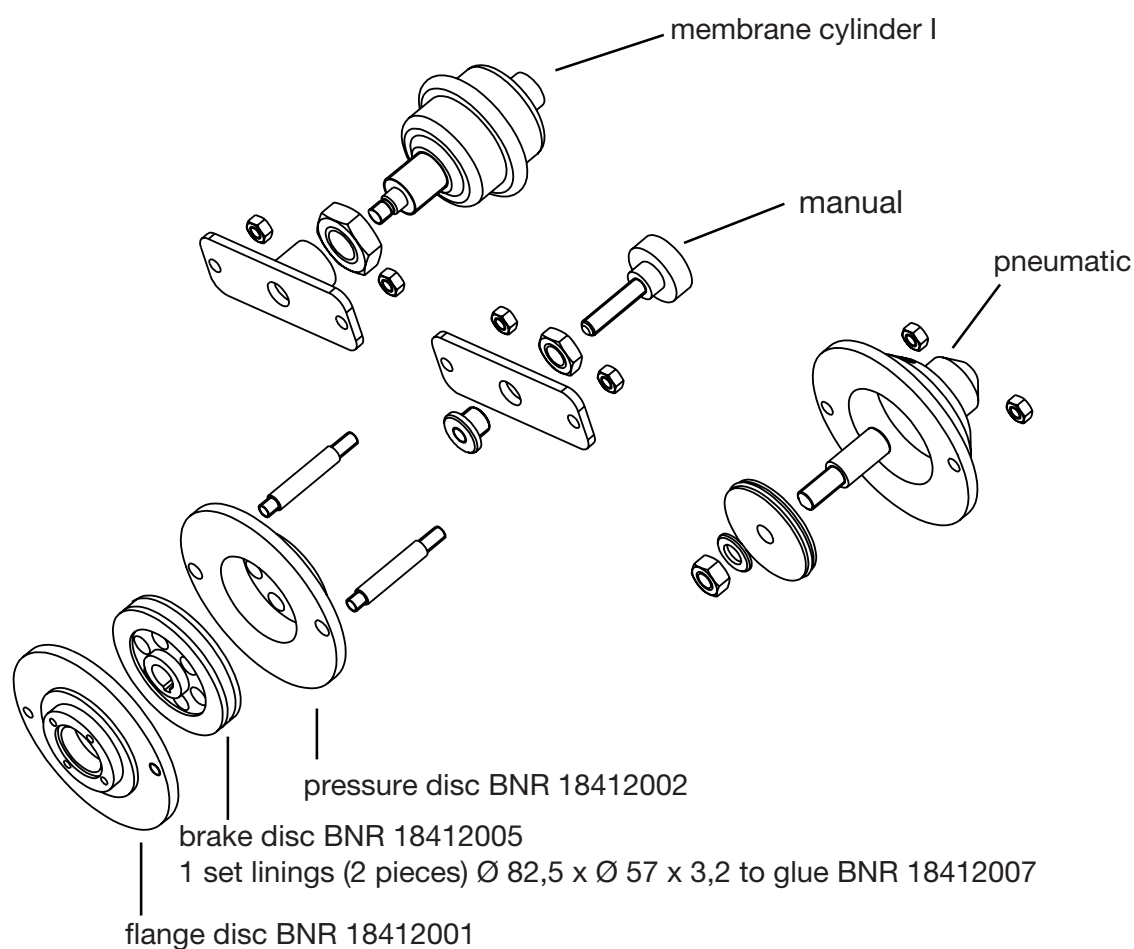
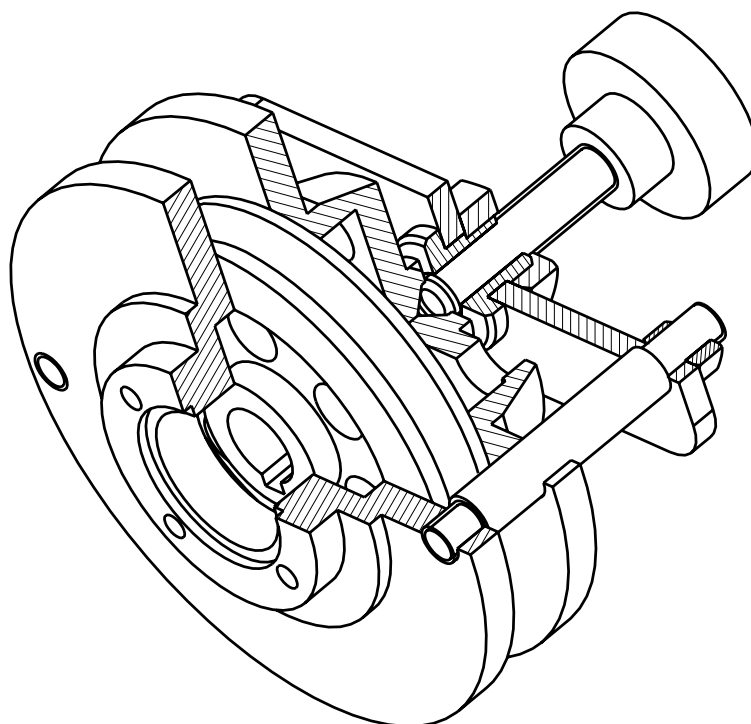
[Dimension schedule for Boschert-Chuck see chapter 2.00](#)

Mini chuck with single disc brake and membrane cylinder I

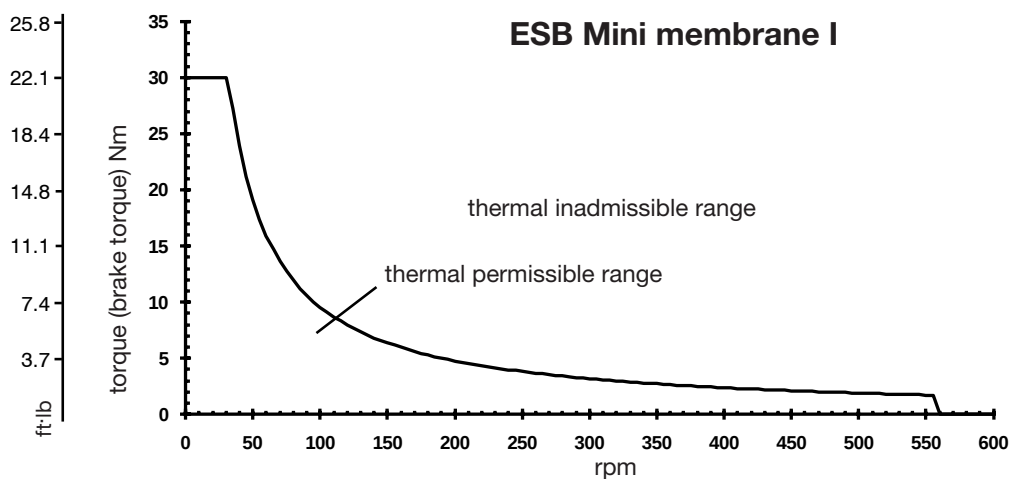
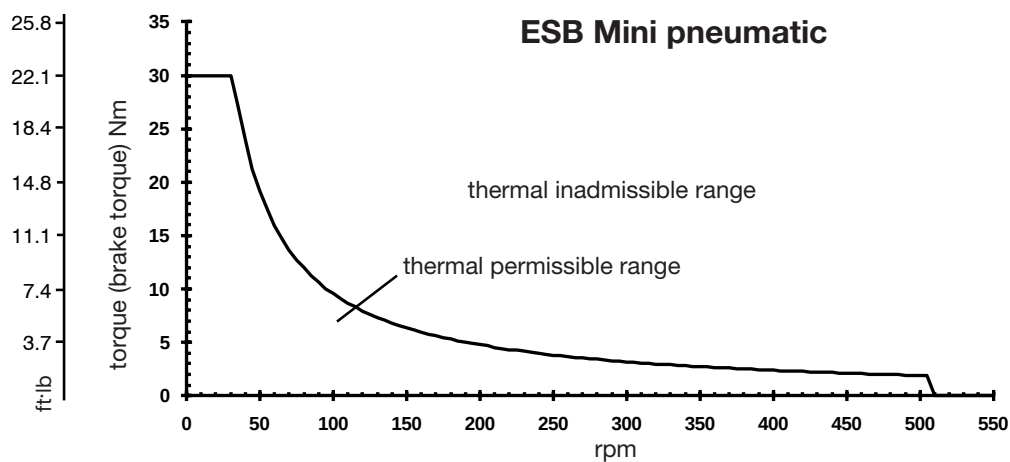
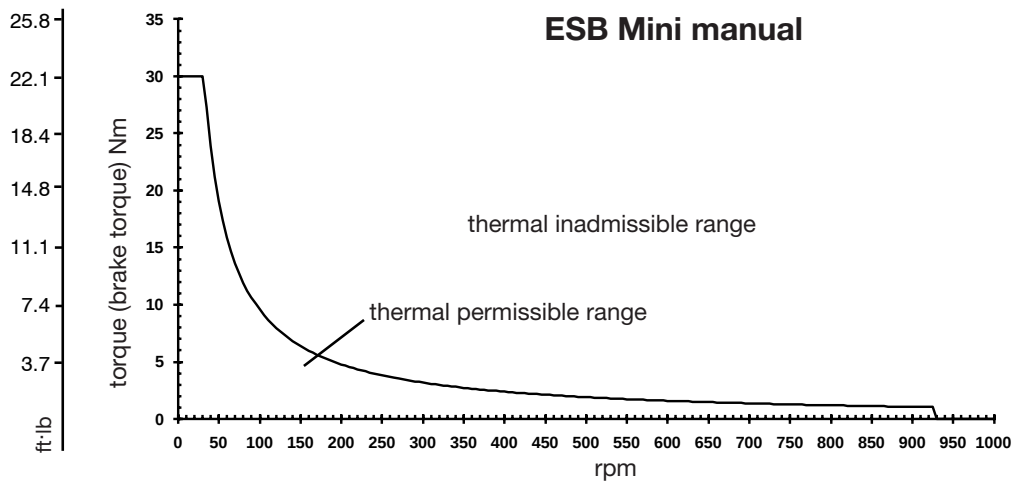


	a	b	c	d	e
Mini Chuck + ESB membrane I	234	170	117	G 1/4	80

[Dimension schedule for Boschert-Chuck see chapter 2.00](#)



ESB Mini performance diagrams



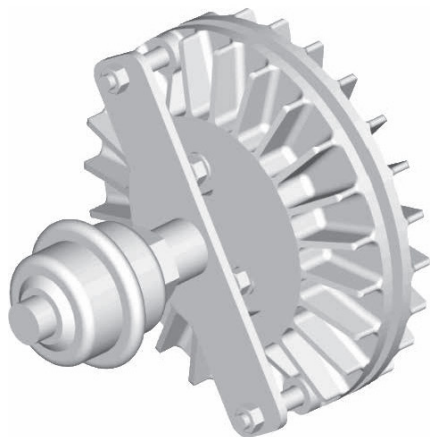
6.20 Single disc brake type ESB



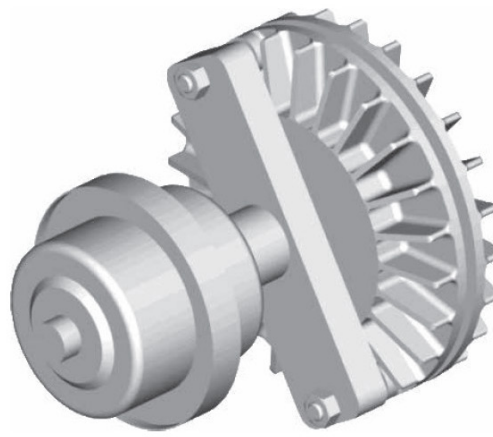
Single disc brake manual



Single disc brake pneumatic



Single disc brake with
membrane cylinder I

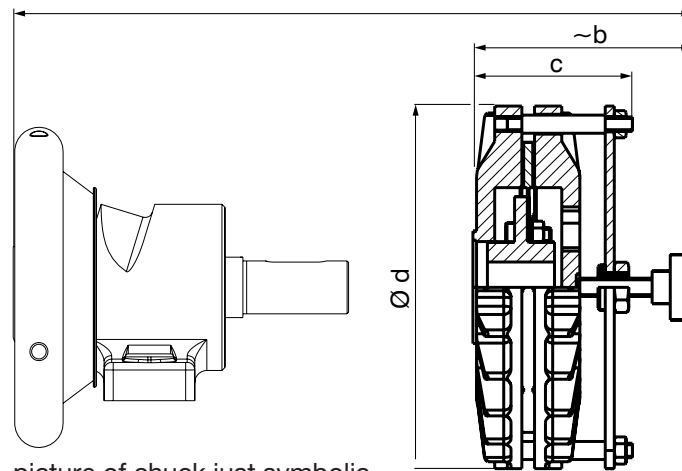


Single disc brake with
membrane cylinder II

	ESB			
	manual	pneumatic	membrane I	membrane II
type 19-25				
performance kW (h.p.)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)
max. brake torque Nm (ft·lb)	40 (29.5)	40 (29.5)	40 (29.5)	90 (66.4)
type 22-30				
performance kW (h.p.)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)
max. brake torque Nm (ft·lb)	40 (29.5)	40 (29.5)	40 (29.5)	90 (66.4)
type 30-40 / A40				
performance kW (h.p.)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)	0.15 (0.201)
max. brake torque Nm (ft·lb)	40 (29.5)	40 (29.5)	40 (29.5)	90 (66.4)
type 40-50 / A50				
performance kW (h.p.)	0.2 (0.268)	0.2 (0.268)	0.2 (0.268)	0.2 (0.268)
max. brake torque Nm (ft·lb)	50 (36,9)	50 (36,9)	50 (36,9)	110 (81.1)

All data is on a basis of 5 bar (72,5 psi) pressure.

Safety Chuck with manual single disc brake

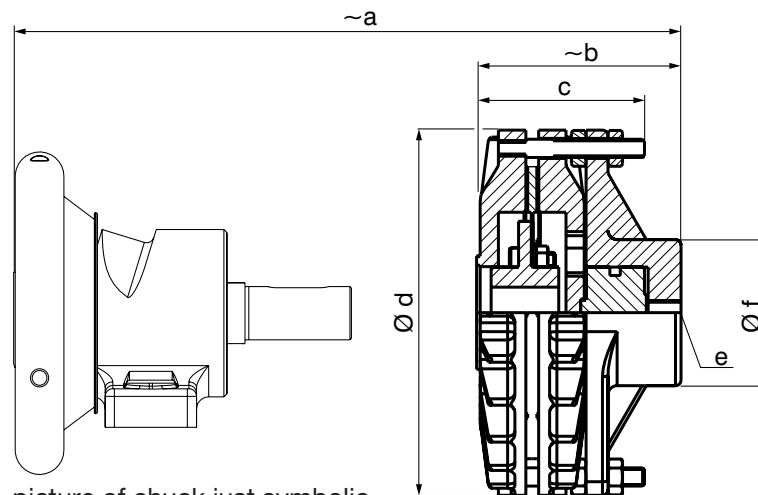


picture of chuck just symbolic

	a	b	c	d
Safety Chuck 19-25 + ESB manual	235	118	86	200
Safety Chuck 22-30 + ESB manual	241	118	86	200
Safety Chuck 30-40 + ESB manual	258	118	86	200
Safety Chuck 40-50 + ESB manual	327	136.5	110	235

[Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40](#)

Safety chuck with pneumatic single disc brake

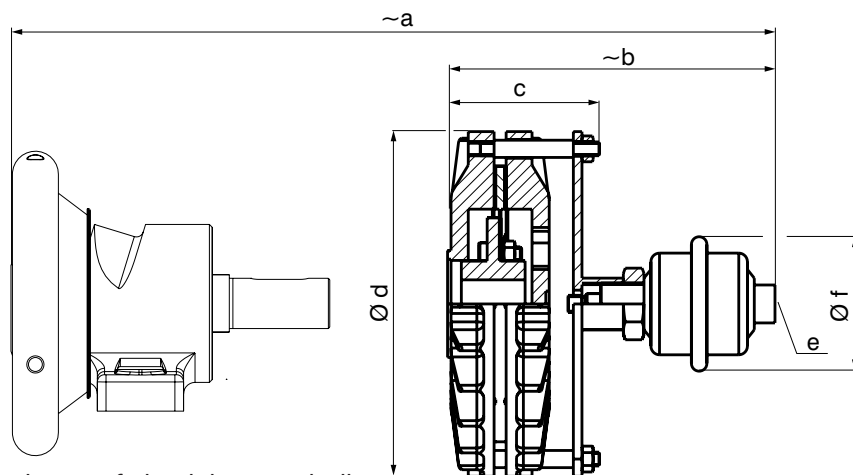


picture of chuck just symbolic

	a	b	c	d	e	f
Safety Chuck 19-25 + ESB pneumatic	227	110	90	200	G 1/4	80
Safety Chuck 22-30 + ESB pneumatic	233	110	90	200	G 1/4	80
Safety Chuck 30-40 + ESB pneumatic	250	110	90	200	G 1/4	80
Safety Chuck 40-50 + ESB pneumatic	324	133.5	107	235	G 1/4	80

[Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40](#)

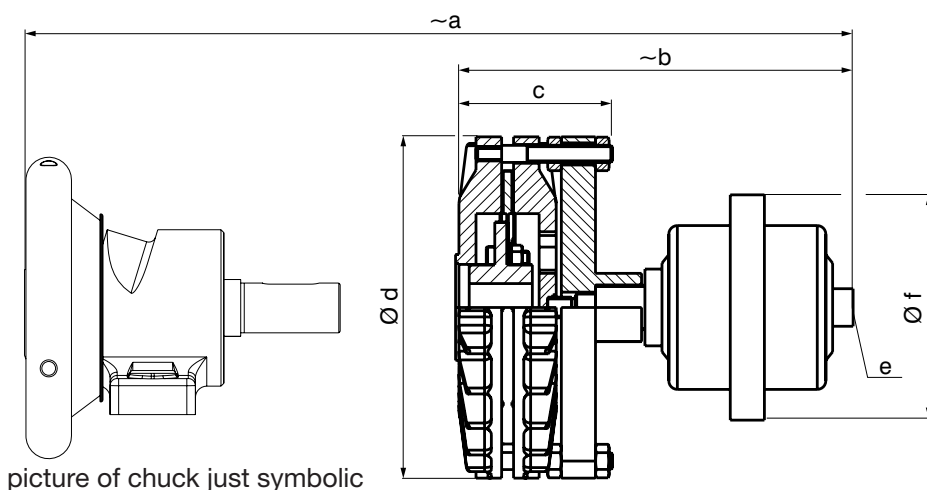
Safety chuck with single disc brake and membrane cylinder I



	a	b	c	d	e	f
Safety Chuck 19-25 + ESB membrane I	292	175	86	200	G 1/4	80
Safety Chuck 22-30 + ESB membrane I	298	175	86	200	G 1/4	80
Safety Chuck 30-40 + ESB membrane I	315	175	86	200	G 1/4	80
Safety Chuck 40-50 + ESB membrane I	375	185	110	235	G 1/4	80

[Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40](#)

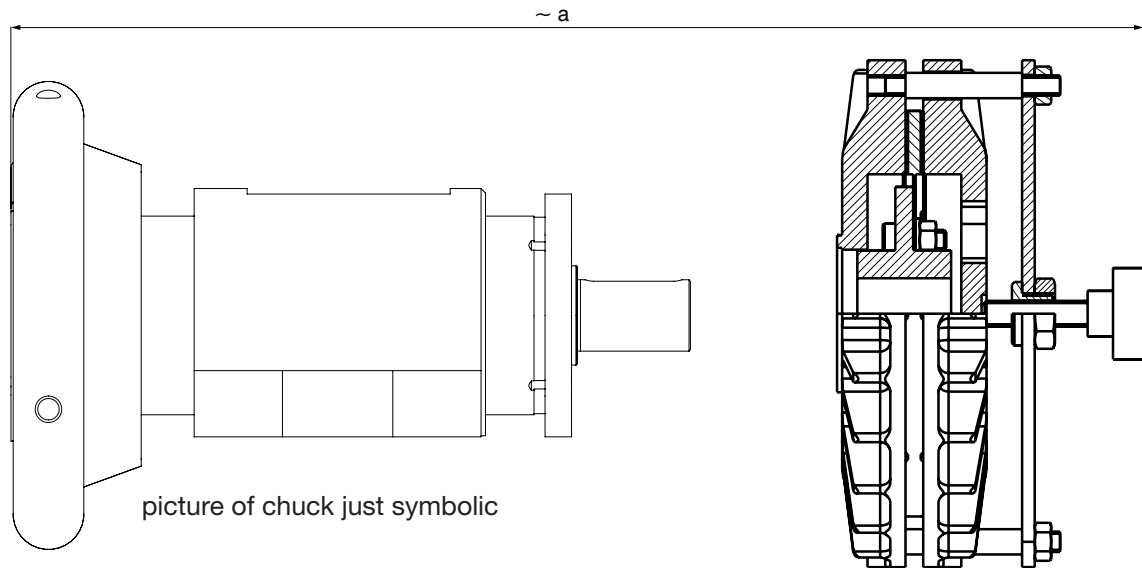
Safety chuck with single disc brake and membrane cylinder II



	a	b	c	d	e	f
Safety Chuck 22-30 + ESB membrane II	354	231	90	200	G 1/4	132
Safety Chuck 30-40 + ESB membrane II	371	231	90	200	G 1/4	132
Safety Chuck 40-50 + ESB membrane II	440	250	84	235	G 1/4	132

[Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40](#)

Overall dimension ESB with Sliding-, A- and P-Chuck



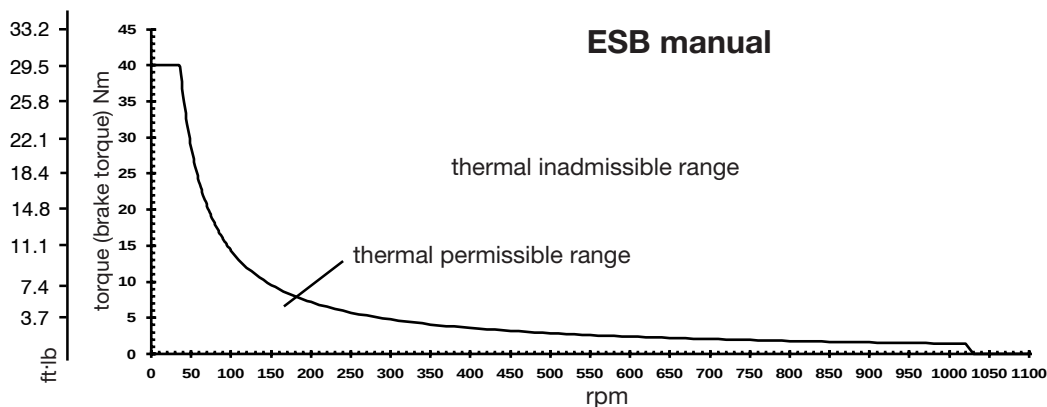
overall dimension „a“
for Boschert Sliding-, A- and P-Chuck (flange- and foot mounted chuck)

	ESB				chuck dim. on page
	manual	pneumatic	membrane I	membrane II	
brake dim. on page	6.21	6.21	6.22	6.22	
Sliding-Chuck					
22-30					
50 mm adjustment	369	361	428	484	3.03 - 3.06
100 mm adjustment	469	461	528	584	3.03 - 3.06
30-40					
50 mm adjustment	371	364	426	482	3.03 - 3.06
100 mm adjustment	471	464	526	582	3.03 - 3.06
40-50					
50 mm adjustment	397	394	462	513	3.03 - 3.06
100 mm adjustment	497	494	562	613	3.03 - 3.06
A Chuck					
A40	258	250	315	371	4.21 - 4.22
A50	327	324	396	440	4.21 - 4.22
P Chuck					
P40	338	330	395	451	4.61 - 4.62
P50	393	330	455	506	4.71 - 4.72

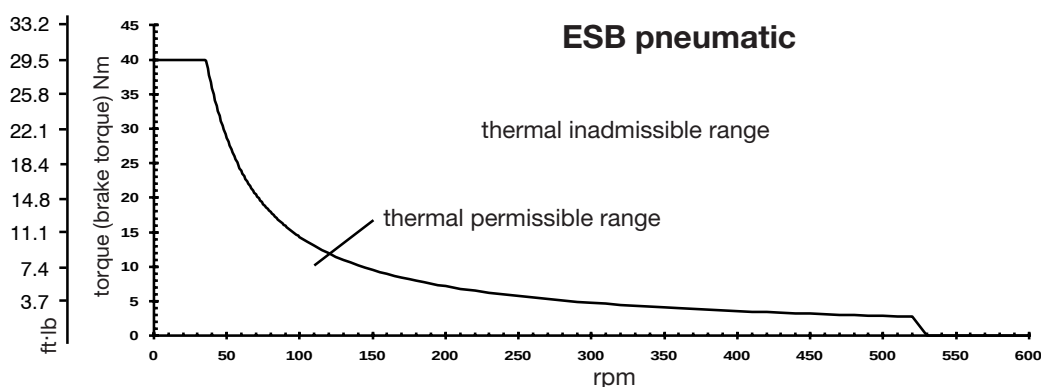
A Chucks = A Series Pneumatic Safety Chucks
P Chucks = P Series Pneumatic Safety Chucks

ESB performance diagrams type 19-25 / 22-30 / 30-40

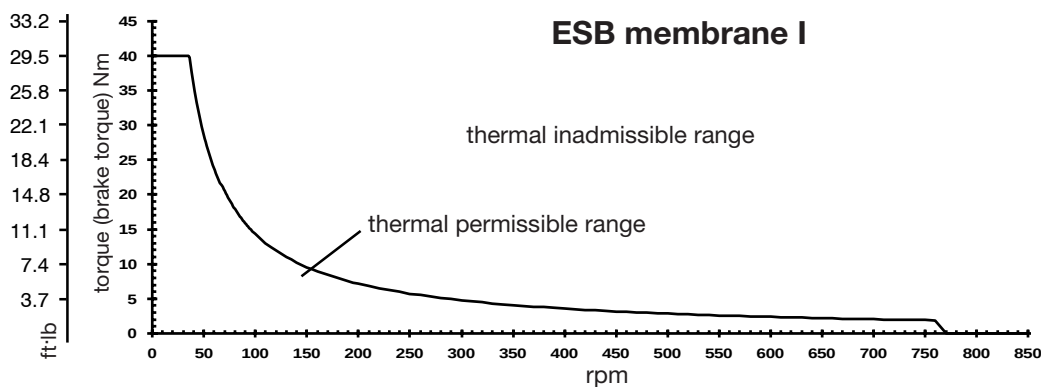
ESB manual



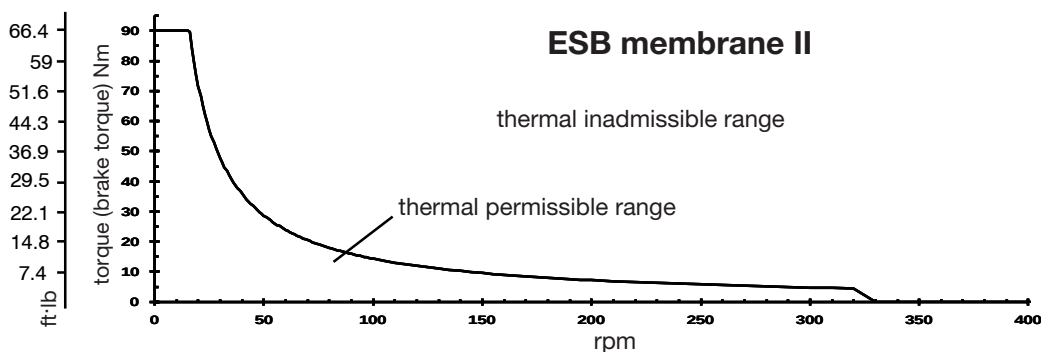
ESB pneumatic



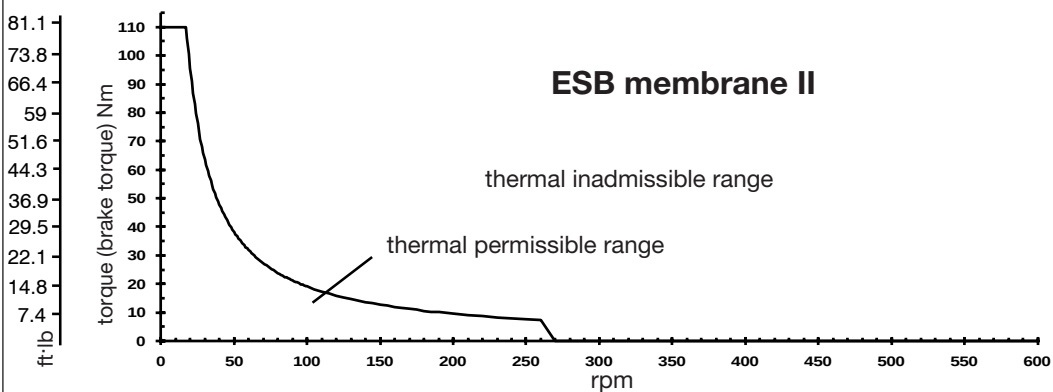
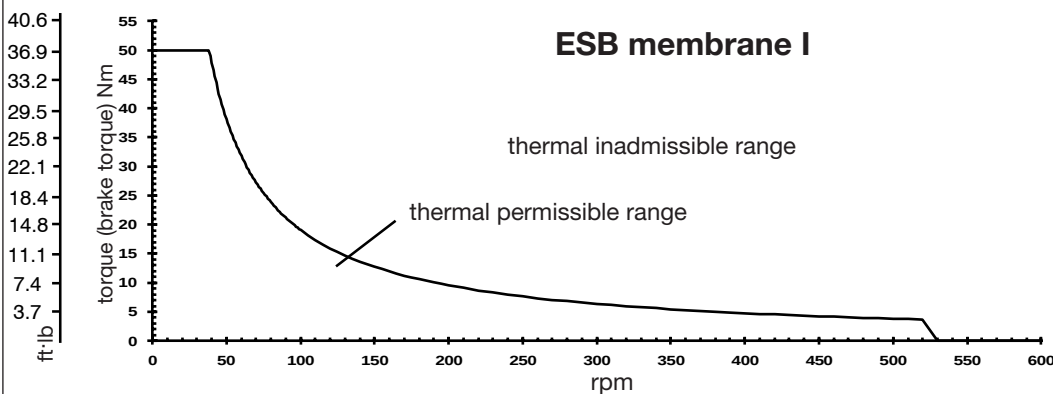
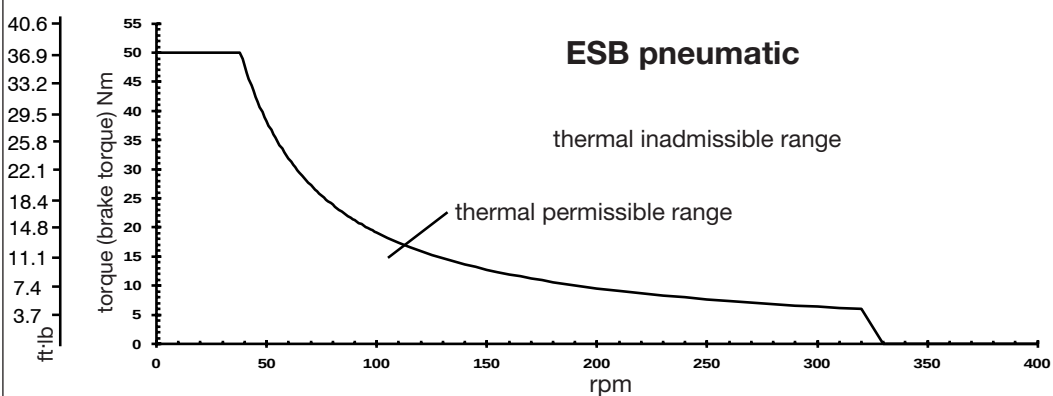
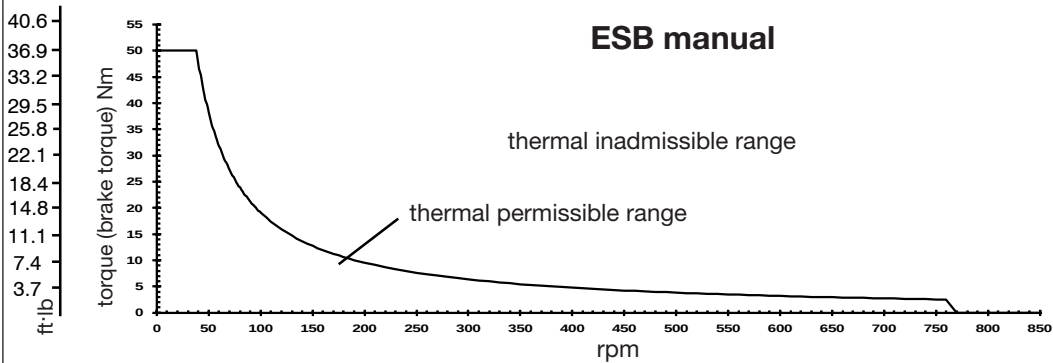
ESB membrane I

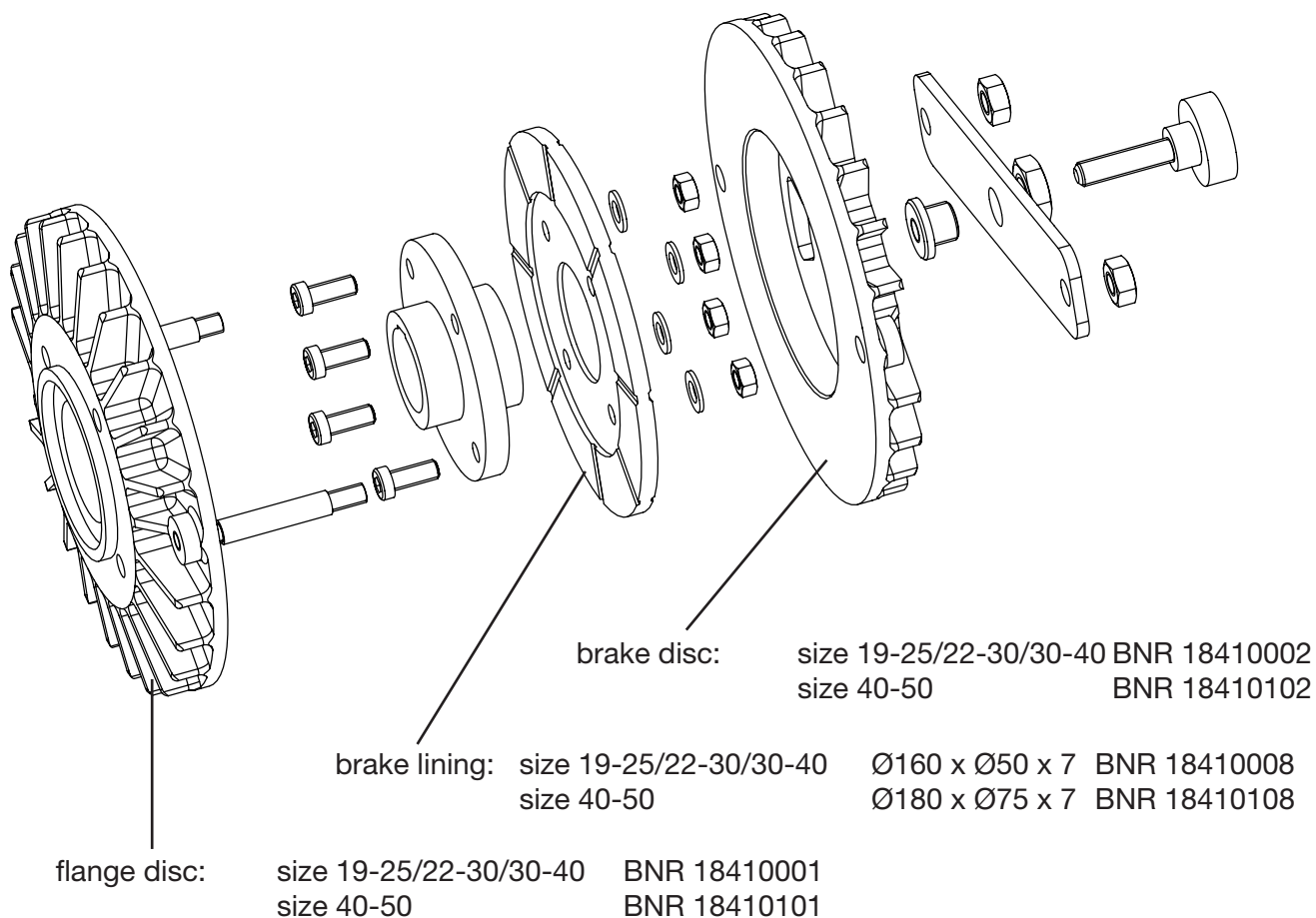
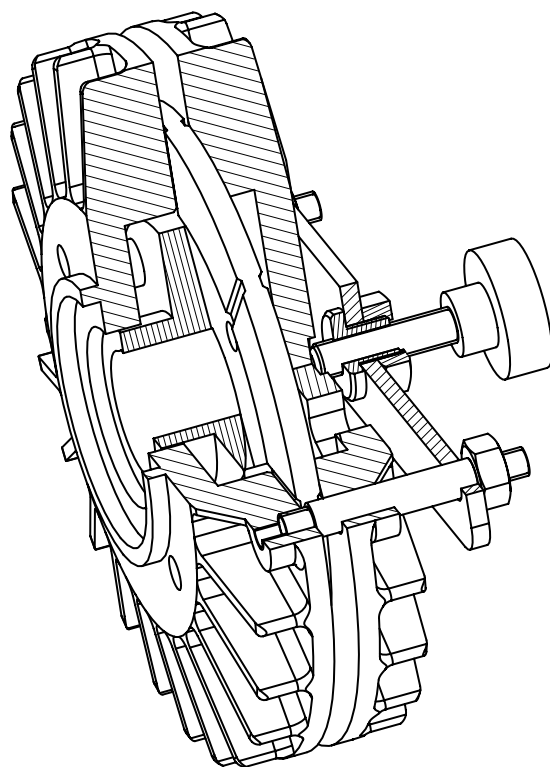


ESB membrane II

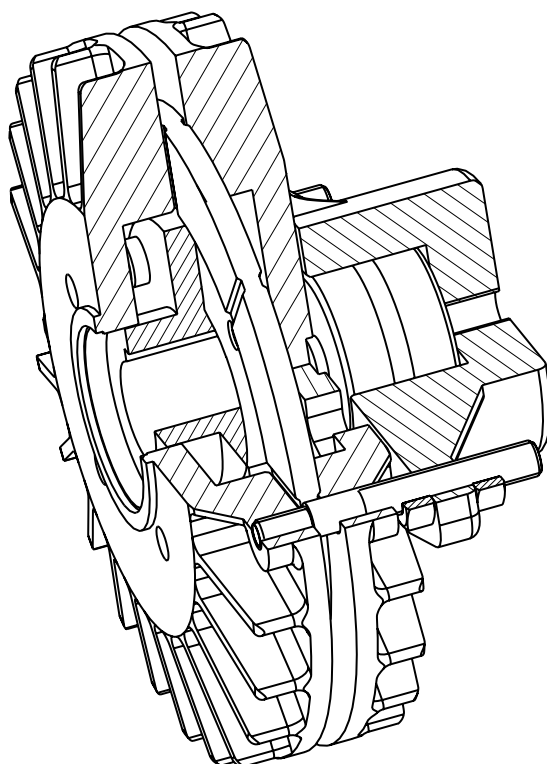


ESB performance diagrams type 40-50

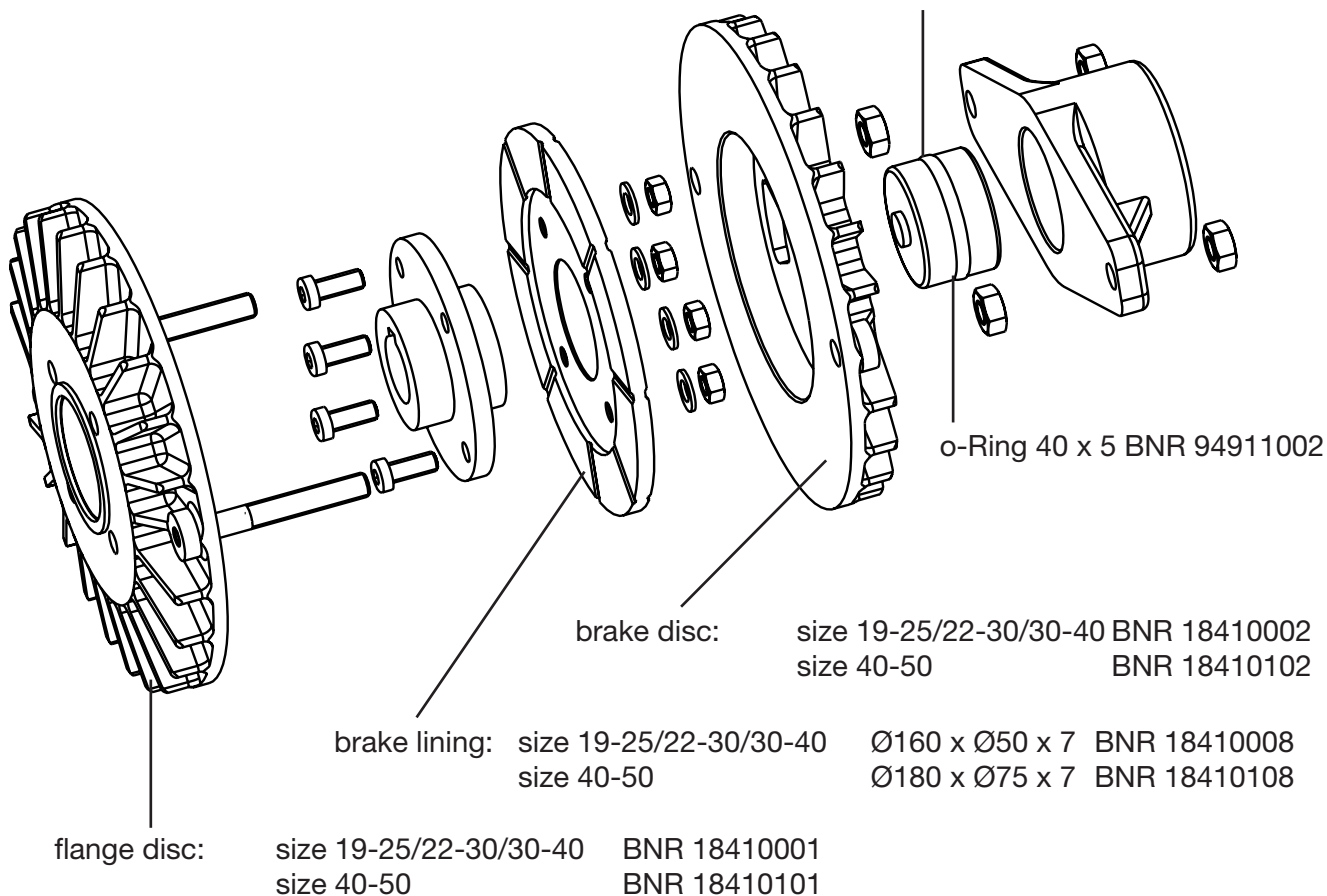




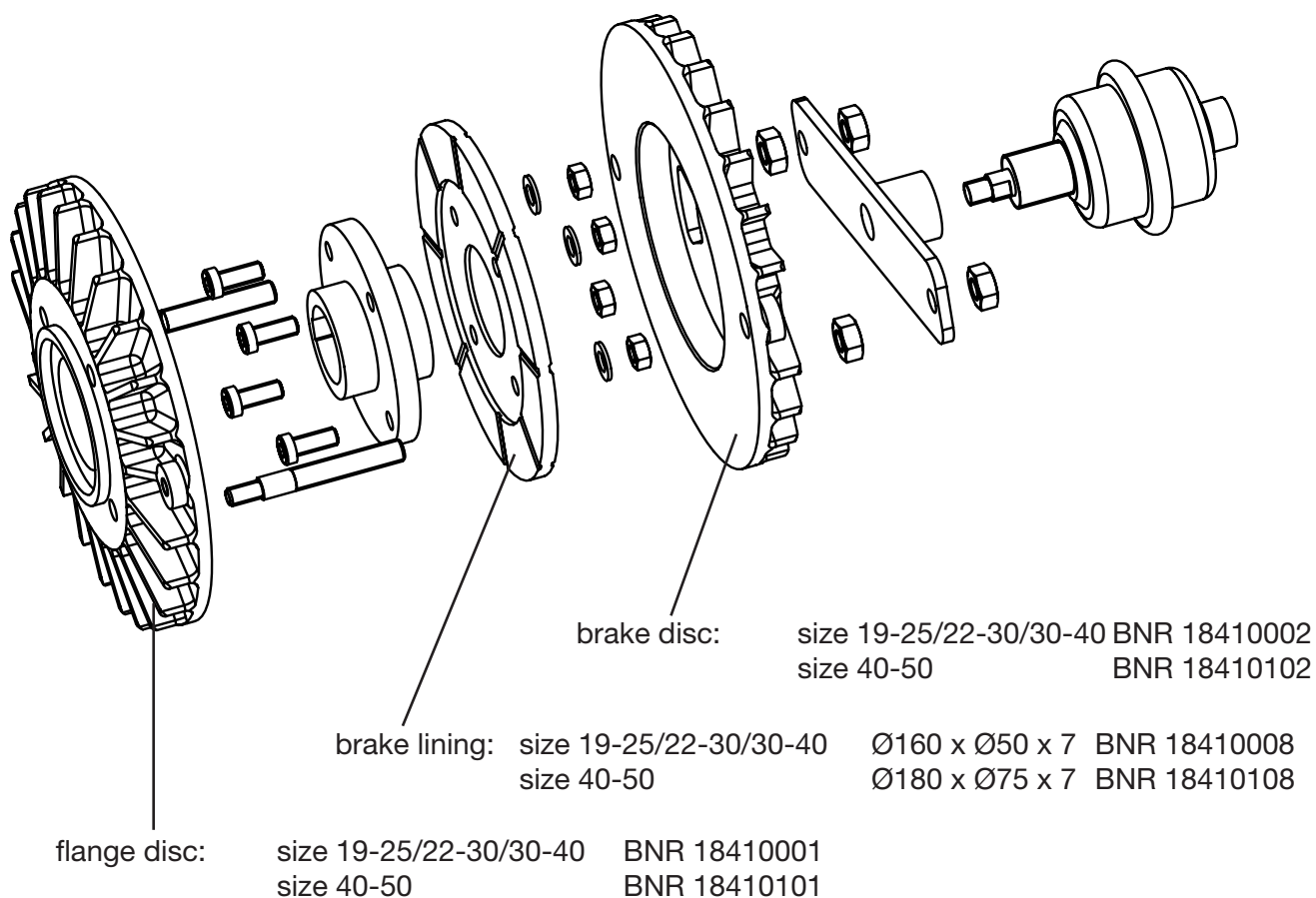
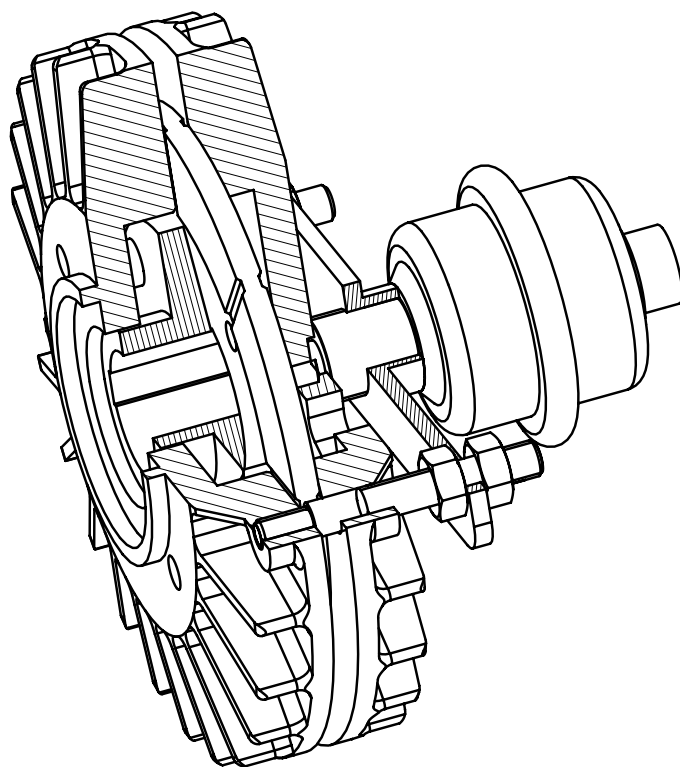
ESB pneumatic wearing-parts



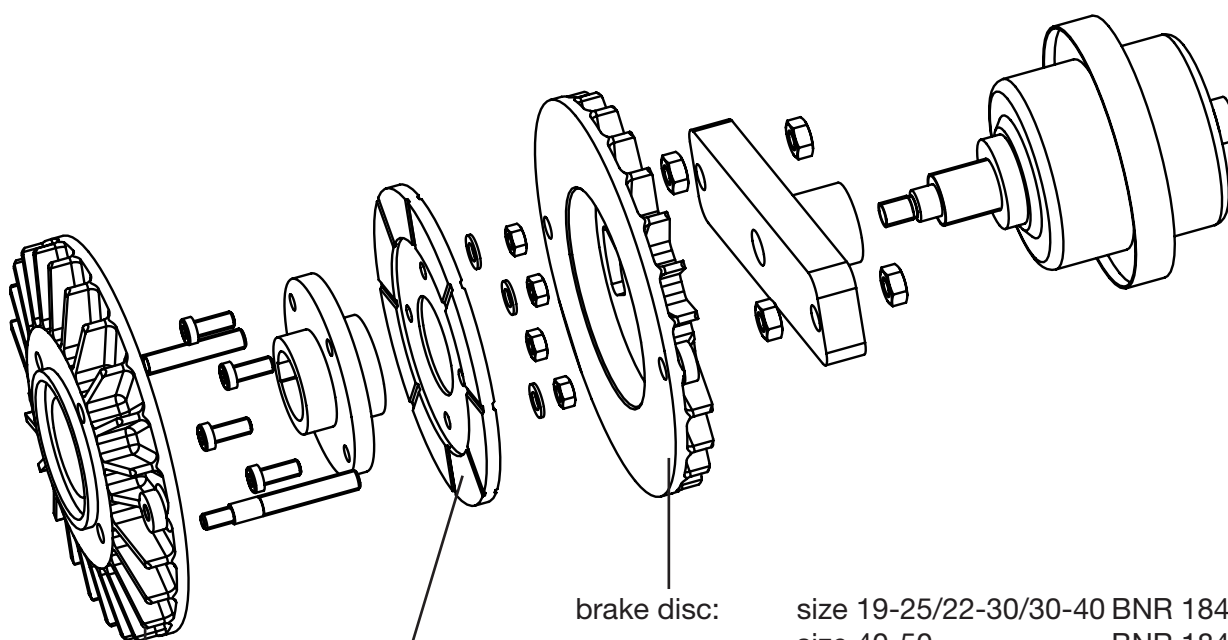
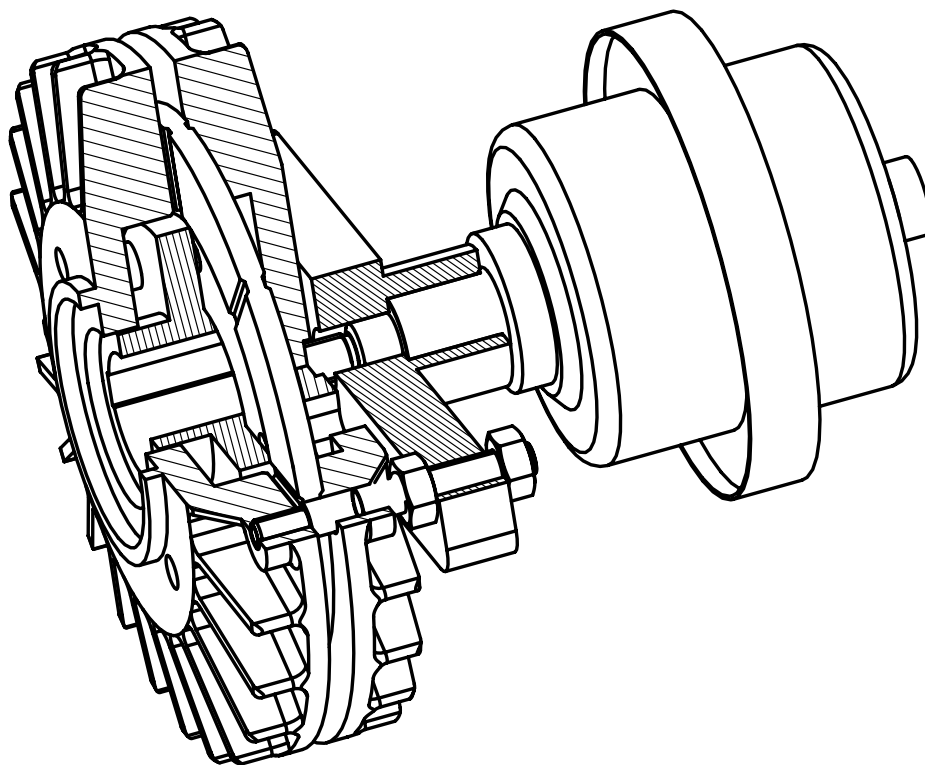
pneumatic piston: size 19-25/22-30/30-40 BNR 18410027
size 40-50 BNR 18410127



ESB membrane I wearing-parts



ESB membrane II wearing-parts



flange disc: size 19-25/22-30/30-40 BNR 18410001
size 40-50 BNR 18410101

brake lining: size 19-25/22-30/30-40 Ø160 x Ø50 x 7 BNR 18410008
size 40-50 Ø180 x Ø75 x 7 BNR 18410108

brake disc: size 19-25/22-30/30-40 BNR 18410002
size 40-50 BNR 18410102

6.40 Double disc brake type DSB



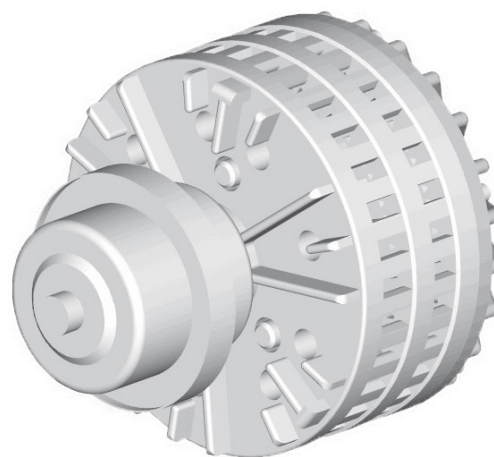
Double disc brake manual



Double disc brake pneumatic



Double disc brake with
membrane cylinder I

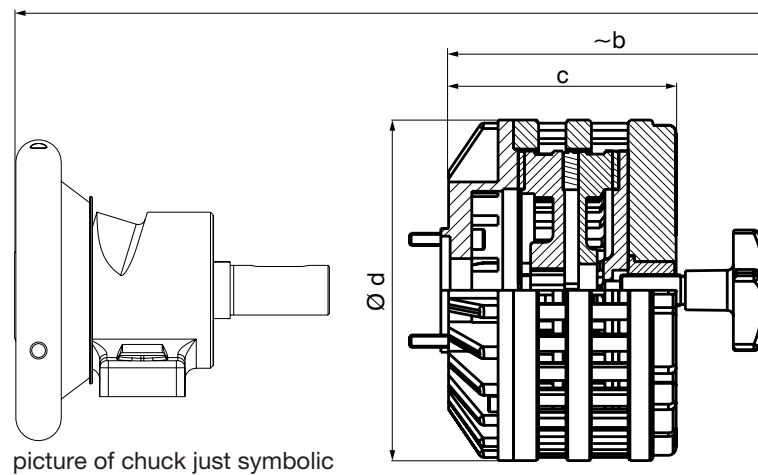


Double disc brake with
membrane cylinder II

	DSB			
	manual	pneumatic	membrane I	membrane II
type 30-40 / A40 / P40				
performance kW (h.p.)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)
max. brake torque Nm (ft·lb)	200 (147,5)	200 (147,5)	200 (147,5)	440 (324,5)
type 40-50 / A50 / P50				
performance kW (h.p.)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)
max. brake torque Nm (ft·lb)	200 (147,5)	200 (147,5)	200 (147,5)	440 (324,5)
type 50-80 / A80				
performance kW (h.p.)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)	0.6 (0.805)
max. brake torque Nm (ft·lb)	200 (147,5)	200 (147,5)	200 (147,5)	440 (324,5)

All data is on a basis of 5 bar (72,5 psi) pressure.

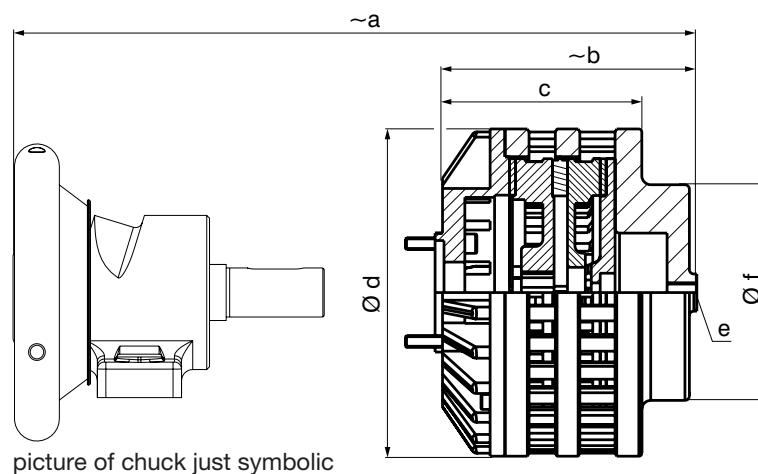
Safety Chuck with manual double disc brake



	a	b	c	d
Safety Chuck 30-40 + DSB manual	352	215	147	220
Safety Chuck 40-50 + DSB manual	403	215	147	220
Safety Chuck 50-80 + DSB manual	472	215	147	220

[Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50](#)

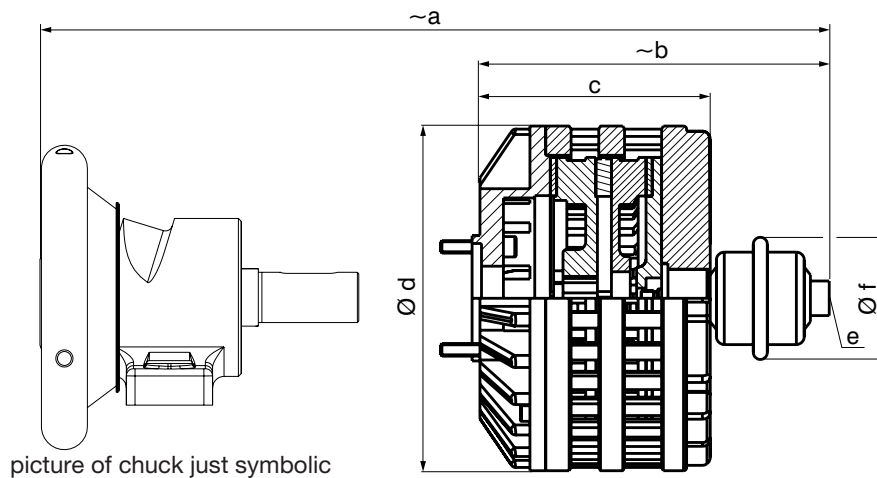
Safety Chuck with pneumatic double disc brake



	a	b	c	d	e	f
Safety Chuck 30-40 + DSB pneumatic	310	170	147	220	G 1/4	145
Safety Chuck 40-50 + DSB pneumatic	361	170	147	220	G 1/4	145
Safety Chuck 50-80 + DSB pneumatic	430	170	147	220	G 1/4	145

[Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50](#)

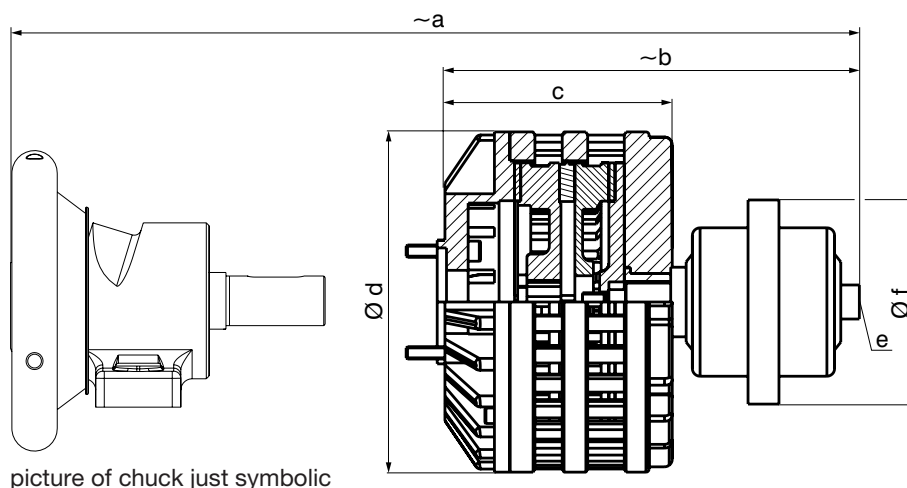
Safety Chuck with double disc brake and membrane cylinder I



	a	b	c	d	e	f
Safety Chuck 30-40 + DSB membrane I	363	226	146	220	G 1/4	80
Safety Chuck 40-50 + DSB membrane I	414	226	146	220	G 1/4	80
Safety Chuck 50-80 + DSB membrane I	483	226	146	220	G 1/4	80

[Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50](#)

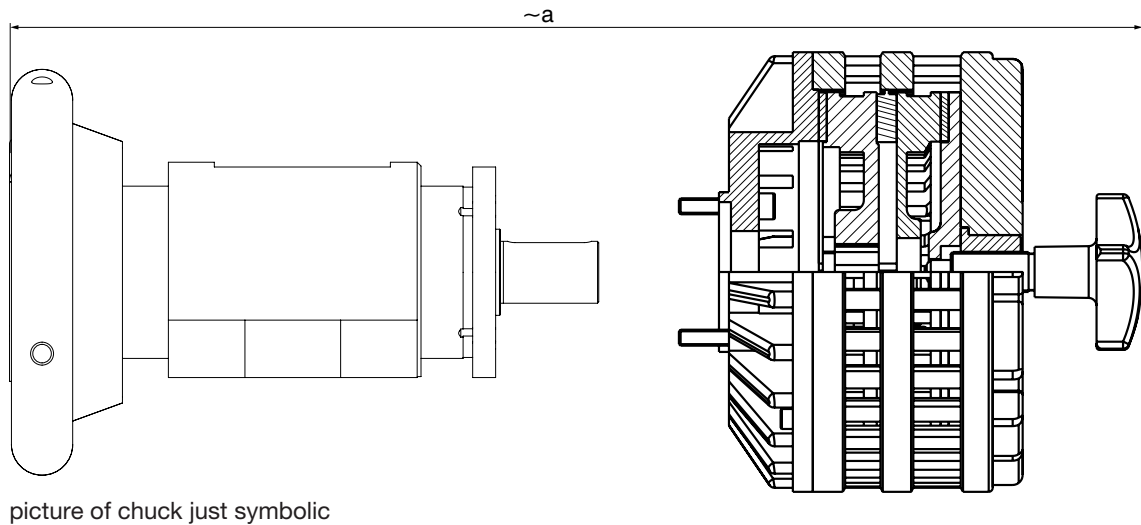
Safety Chuck with double disc brake and membrane cylinder II



	a	b	c	d	e	f
Safety Chuck 30-40 + DSB membrane II	423	286	146	220	G 1/4	132
Safety Chuck 40-50 + DSB membrane II	474	286	146	220	G 1/4	132
Safety Chuck 50-80 + DSB membrane II	543	286	146	220	G 1/4	132

[Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50](#)

Overall dimension DSB with Sliding-, A- and P-chuck



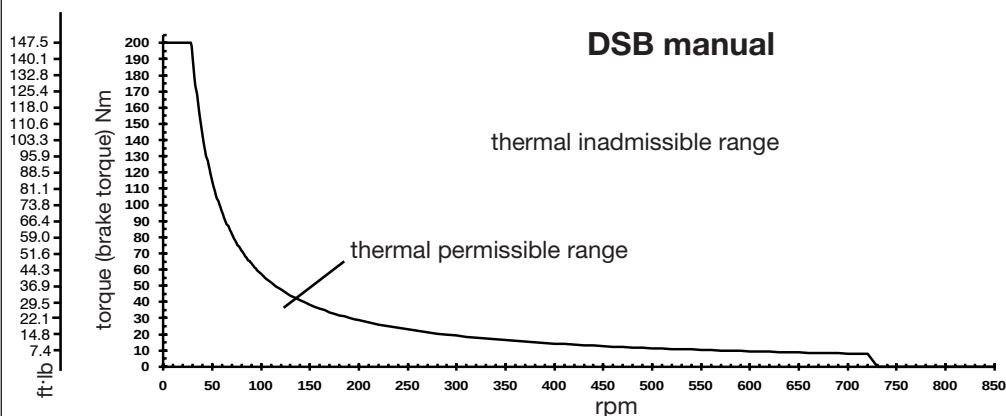
overall dimension „a“
for Boschert Sliding -, A- and P-Chuck (flange- and foot mounted chuck)

	DSB				chuck dim. on page
	manual	pneumatic	membrane I	membrane II	
brake dim. on page	6.41	6.41	6.42	6.42	
Sliding-Chuck					
30-40					
50 mm adjustment	469	424	480	540	3.03 - 3.06
100 mm adjustment	569	524	580	640	3.03 - 3.06
40-50					
50 mm adjustment	472	430	485	546	3.03 - 3.06
100 mm adjustment	572	530	585	646	3.03 - 3.06
A Chuck					
A40	365	325	485	435	4.21 - 4.22
A50	412	370	585	483	4.31 - 4.32
A80	492	450	503	563	4.41 - 4.42
P Chuck					
P40	432	390	438	495	4.61 - 4.62
P50	468	426	507	539	4.71 - 4.72

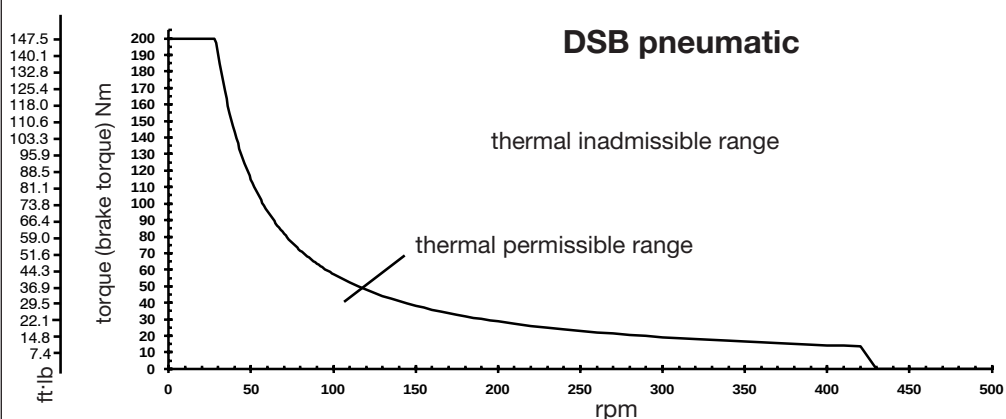
A Chucks = A Series Pneumatic Safety Chucks
P Chucks = P Series Pneumatic Safety Chucks

DSB performance diagrams type 30-40 / 40-50 / 50-80

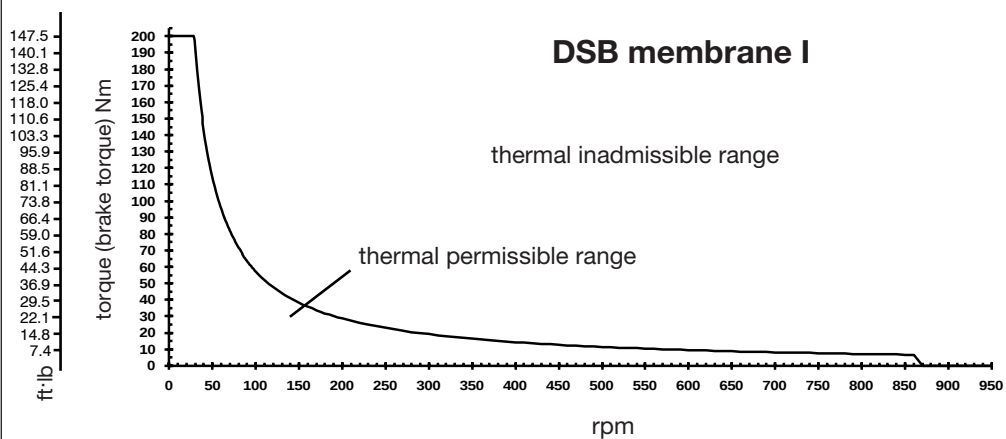
DSB manual



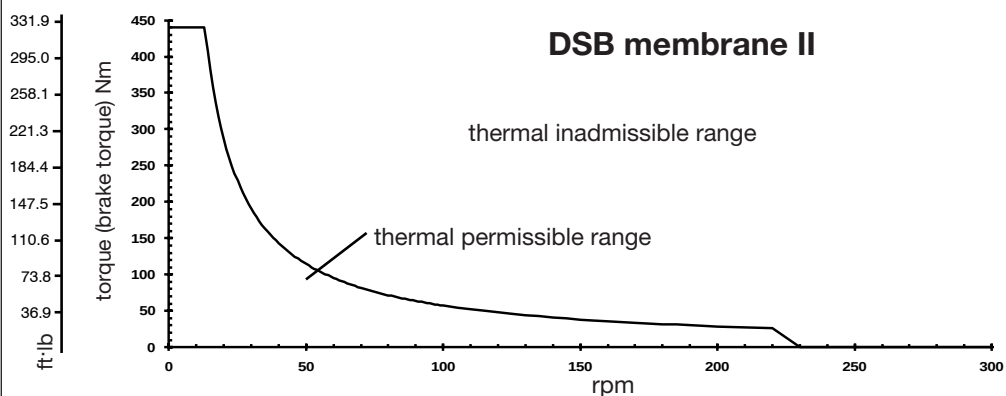
DSB pneumatic

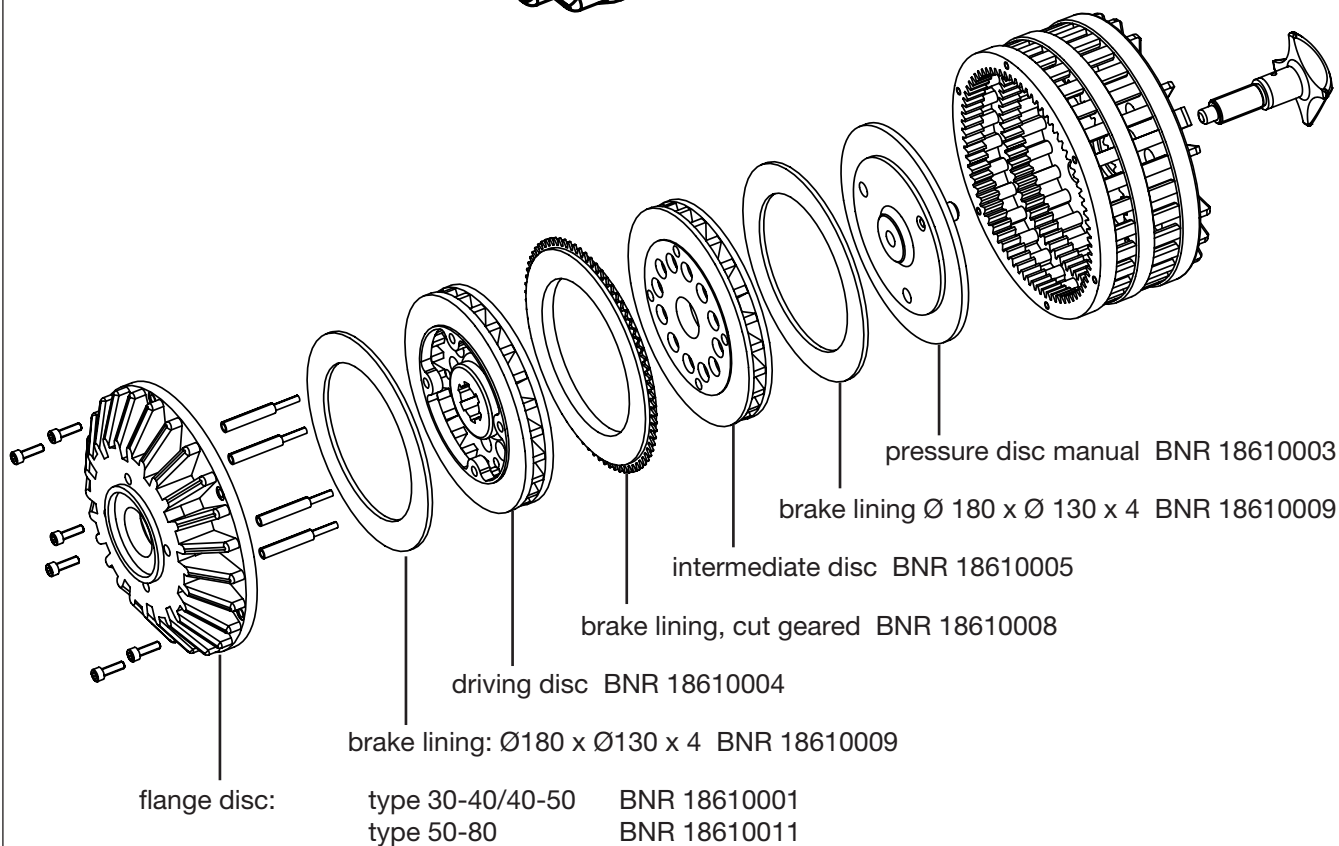
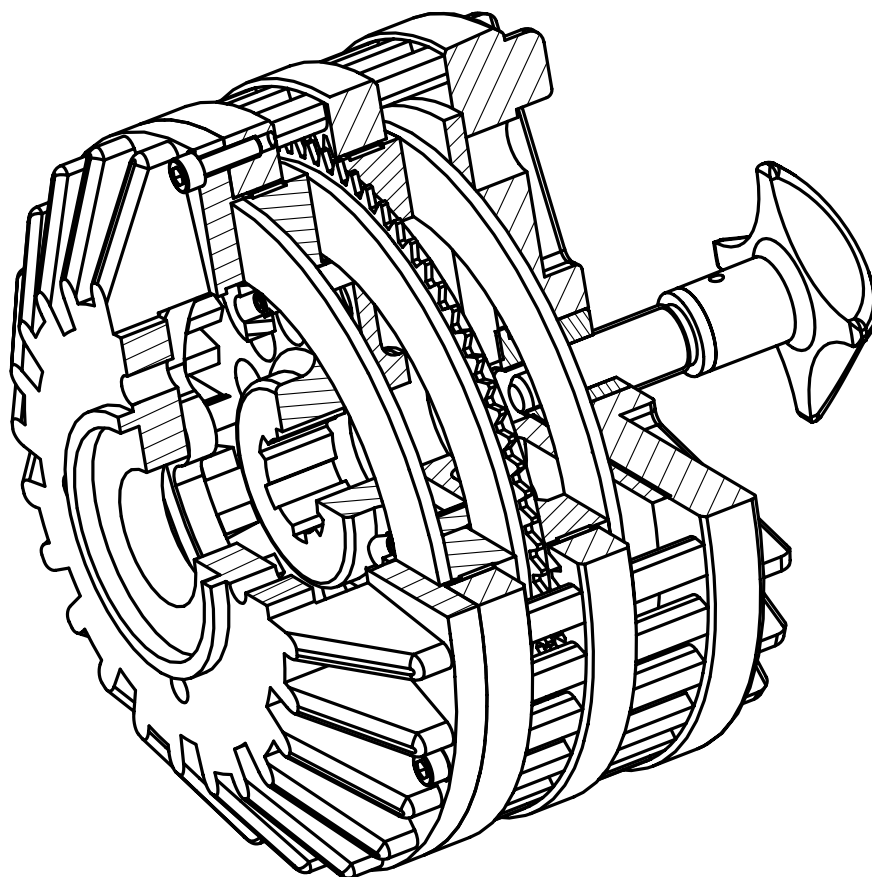


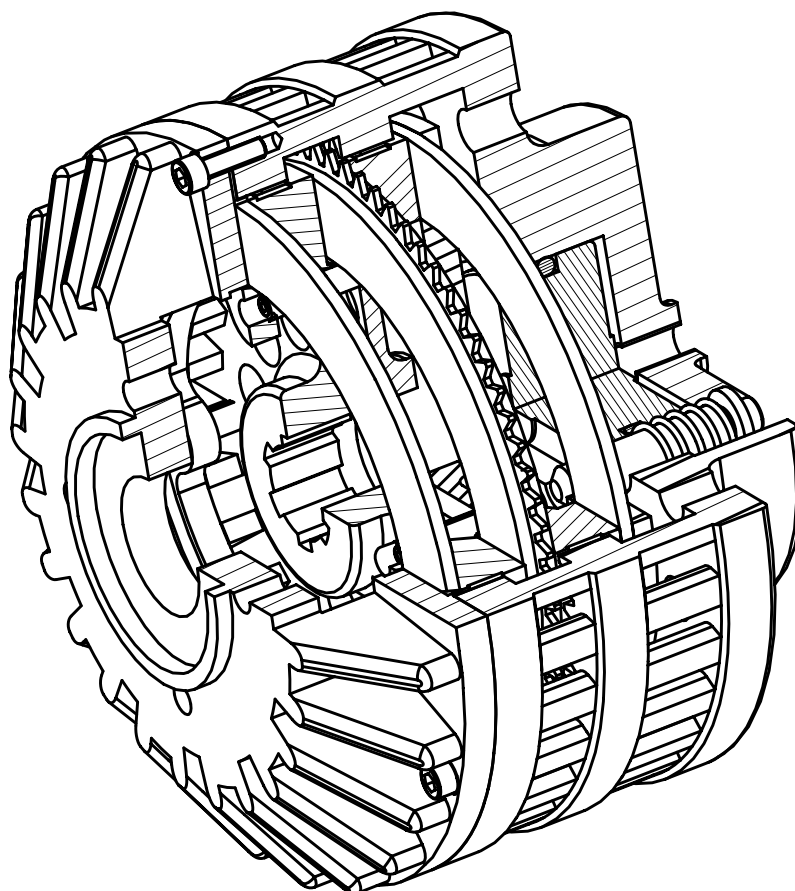
DSB membrane I



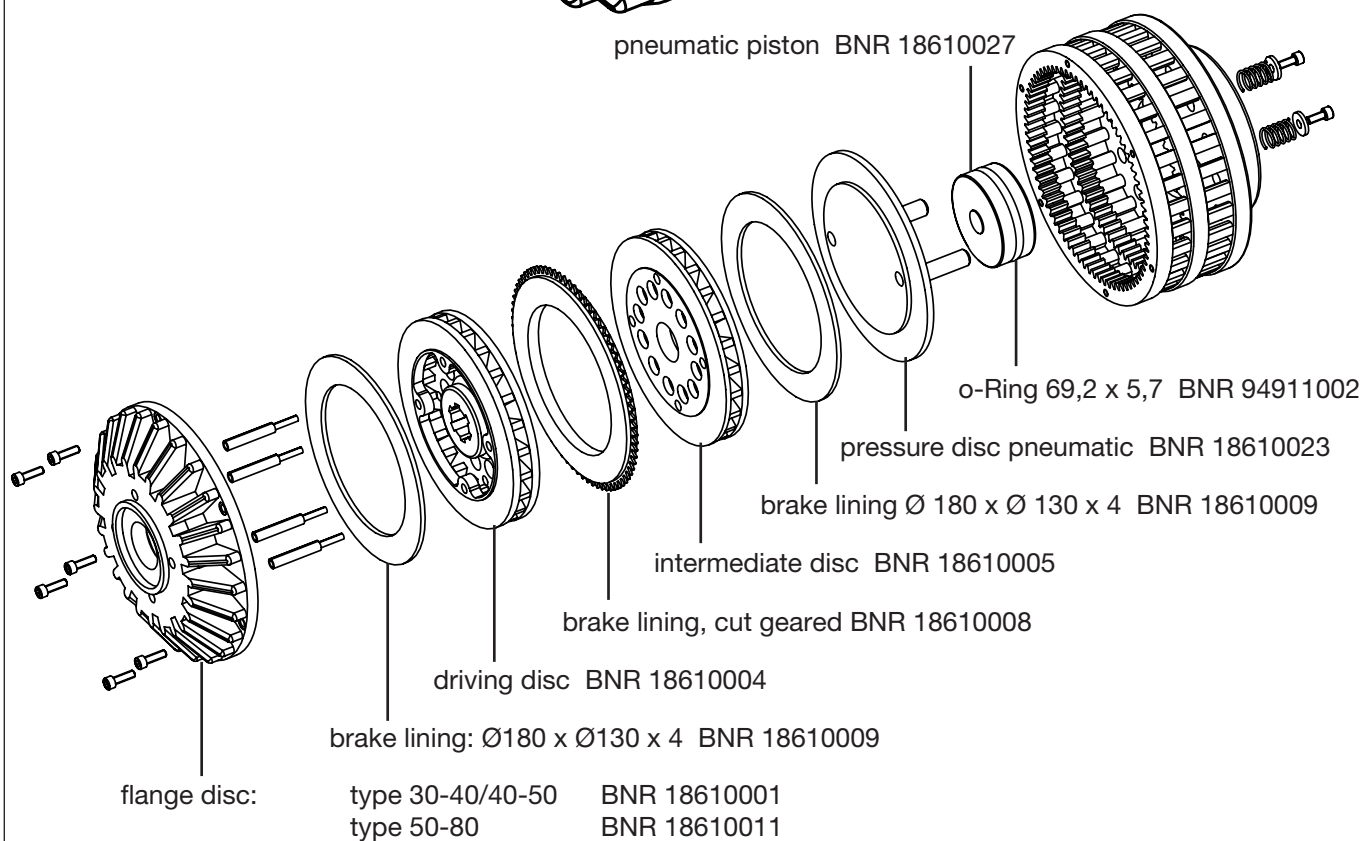
DSB membrane II



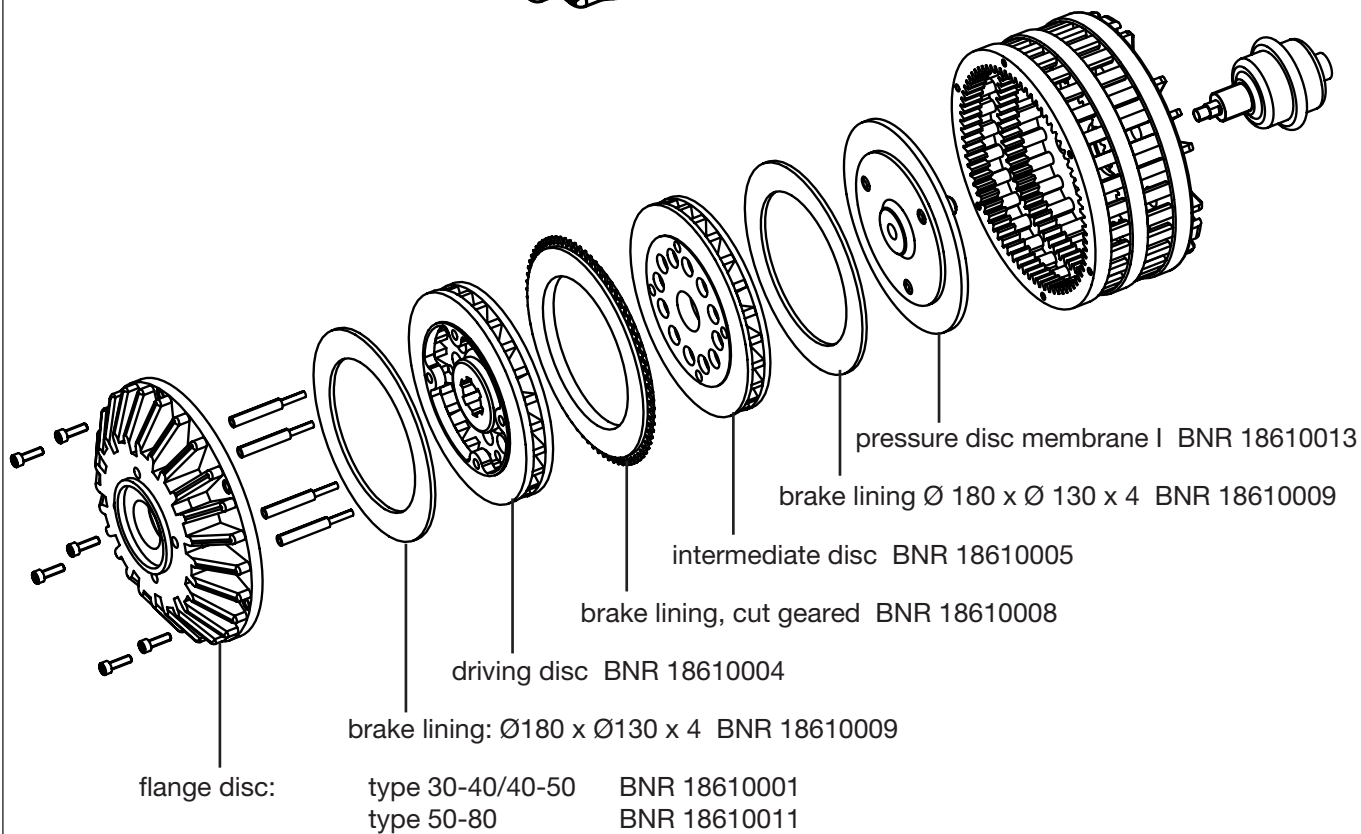
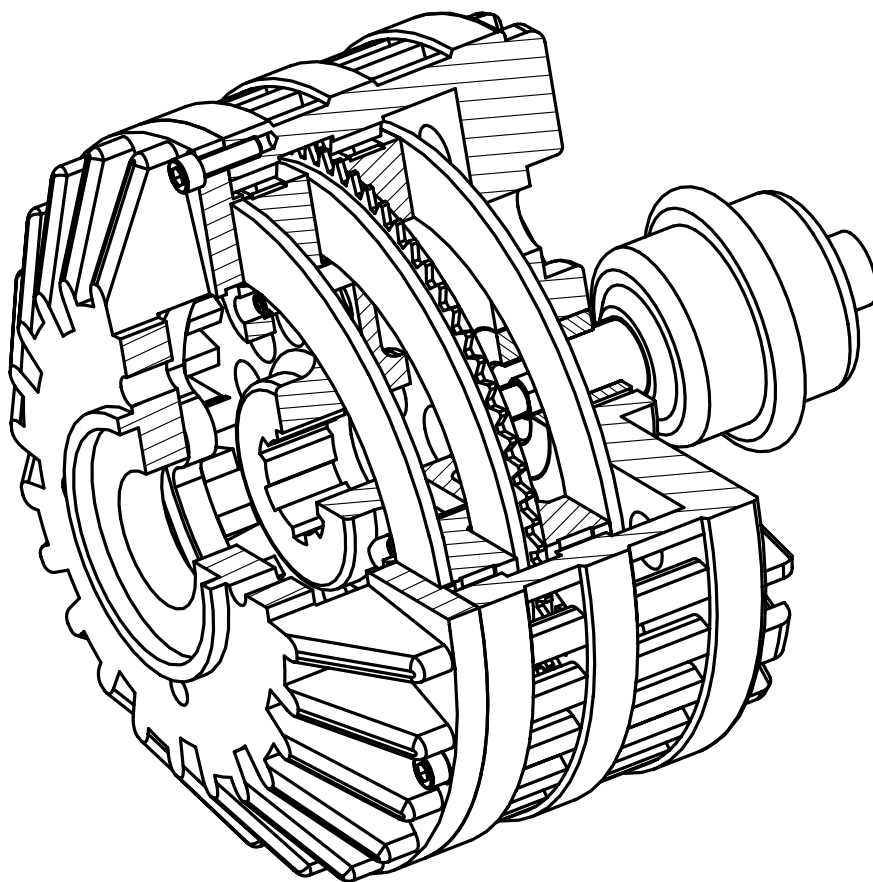




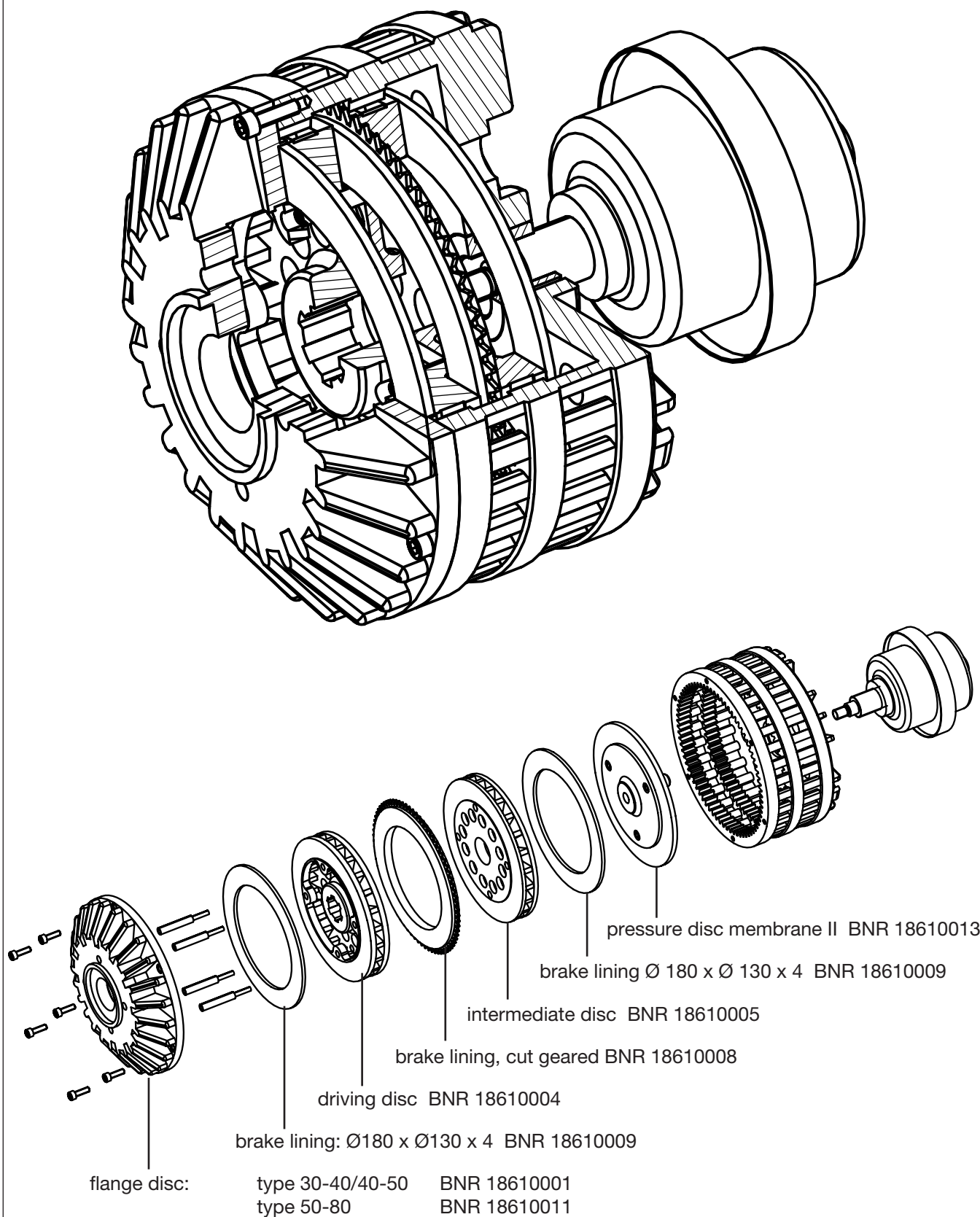
pneumatic piston BNR 18610027



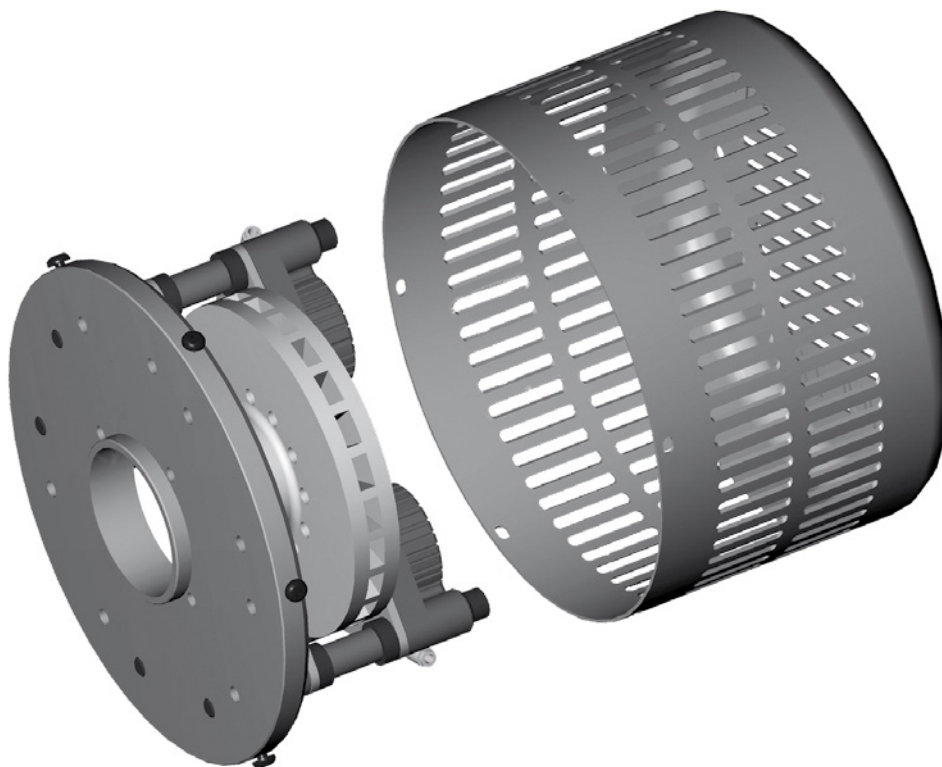
DSB membrane cylinder I wearing-parts



DSB membrane cylinder II wearing-parts



6.70 MULTI type 500, 1500, 3000

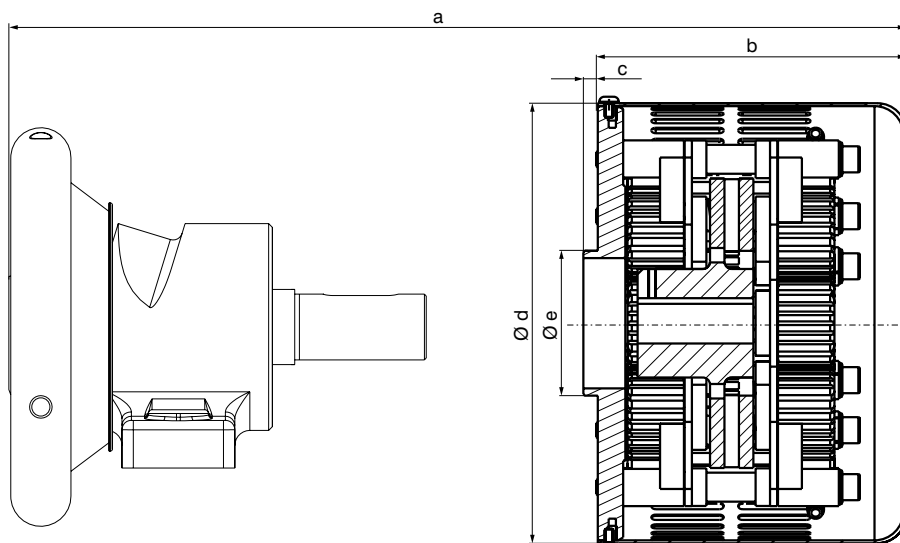


Multi pneum. disc-brake
in variable modular-design construction

	MULTI		
	500	1500	3000
type 22-30 - 50-80			
performance kW (h.p.)	0.5 (0.671)	1.5 (2.012)	3.0 (4.023)
brake torque Nm (ft·lb) per calliper	50 (36.9)	80 (59)	120 (88.5)
max. callipers	6	8	10
brake torque with max. no. of callipers Nm (ft·lb)	300 (221.3)	640 (472)	1200 (885.1)

All data is on a basis of 5 bar (72.5 psi) pressure.

Safety Chuck with MULTI



picture of chuck just symbolic

Multi 500

	a	b	c	d	e -0,1 / -0,2
Safety Chuck 22-30 + Multi	323	200	2	304	62
Safety Chuck 30-40 + Multi	340	200	2	304	80
Safety Chuck 40-50 + Multi	391	200	7.5	304	100
Safety Chuck 50-80 + Multi	460	200	7.5	304	140

Multi 1500

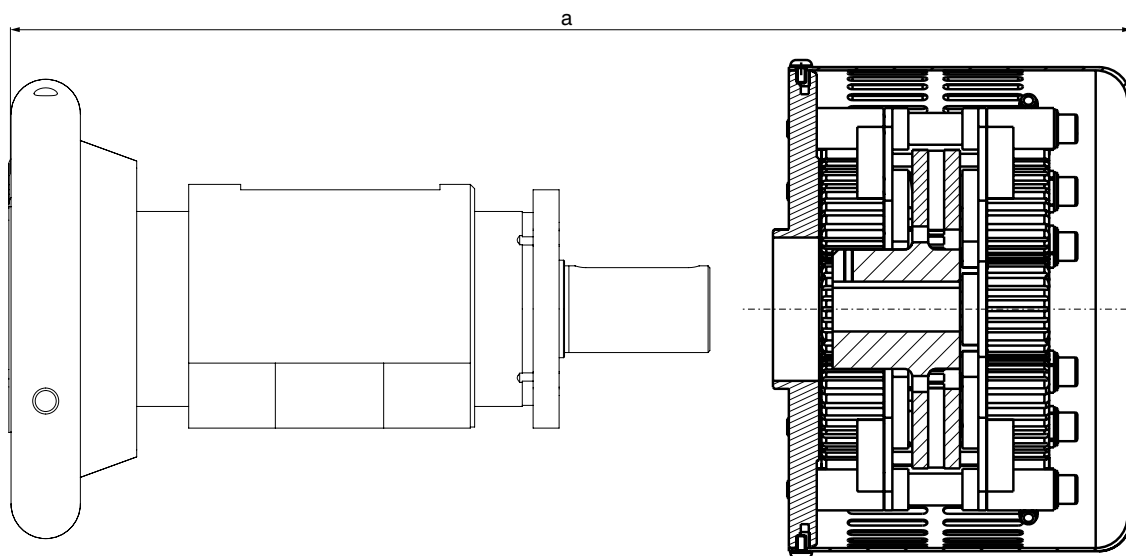
	a	b	c	d	e -0,1 / -0,2
Safety Chuck 22-30 + Multi	323	200	2	404	62
Safety Chuck 30-40 + Multi	340	200	2	404	80
Safety Chuck 40-50 + Multi	391	200	7.5	404	100
Safety Chuck 50-80 + Multi	460	200	7.5	404	140

Multi 3000

	a	b	c	d	e -0,1 / -0,2
Safety Chuck 22-30 + Multi	373	250	2	504	62
Safety Chuck 30-40 + Multi	390	250	5	504	80
Safety Chuck 40-50 + Multi	440	250	7.5	504	100
Safety Chuck 50-80 + Multi	510	250	7.5	504	140

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.40

Overall dimension MULTI with Sliding-, A- and P-Chuck



picture of chuck just symbolic

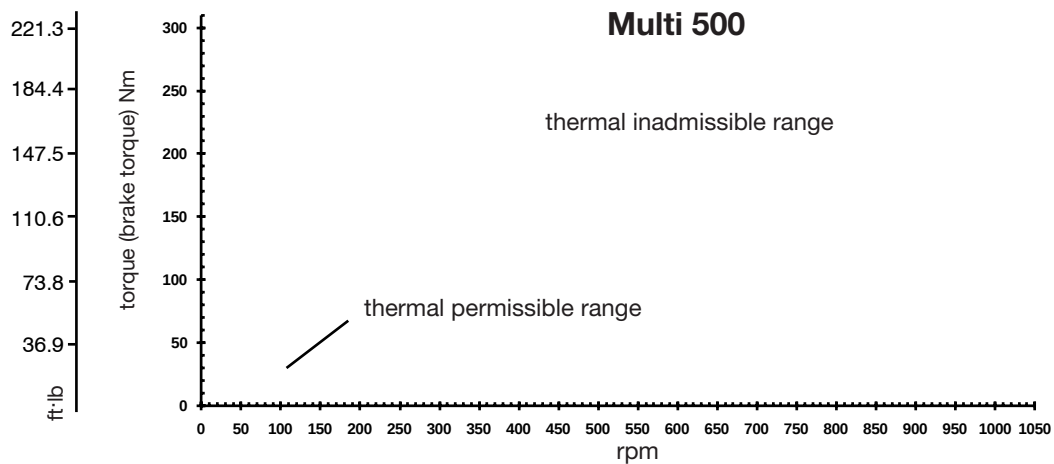
overall dimension „a“
for Boschert Sliding-Chuck (flange- and foot mounted chuck

	Multi			chuck dim. on pag
	500	1500	3000	
brake dim. on page	6.71	6.71	6.71	
Sliding-Chuck				
22-20				
50 mm adjustment	451	451	501	3.03 - 3.06
100 mm adjustment	551	551	601	3.03 - 3.06
30-40				
50 mm adjustment	454	454	504	3.03 - 3.06
100 mm adjustment	554	554	604	3.03 - 3.06
A Chuck				
A40	340	340	390	4.21 - 4.22
A50	391	391	441	4.31 - 4.32
A80	469	469	519	4.41 - 4.42
P Chuck				
P40	408	408	458	4.61 - 4.62
P50	445	445	495	4.71 - 4.72

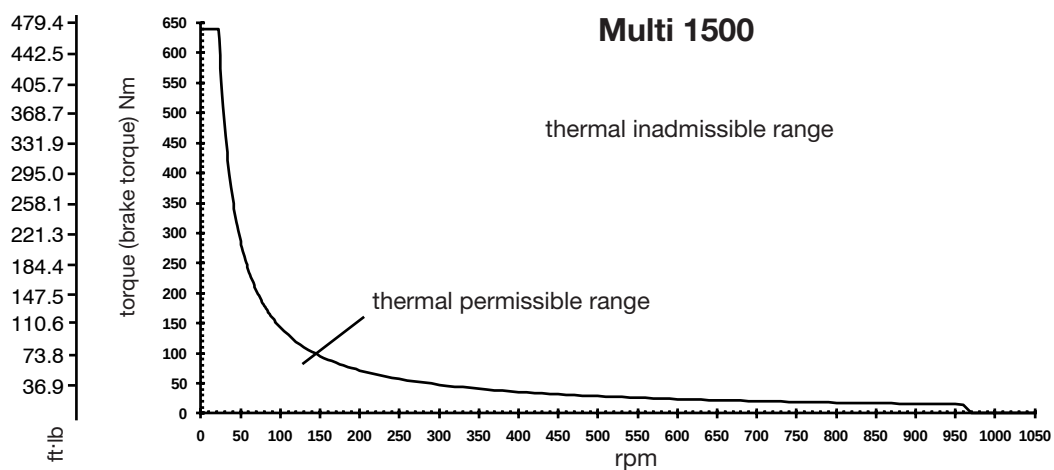
Multi performance diagrams type 500, 1500, 3000



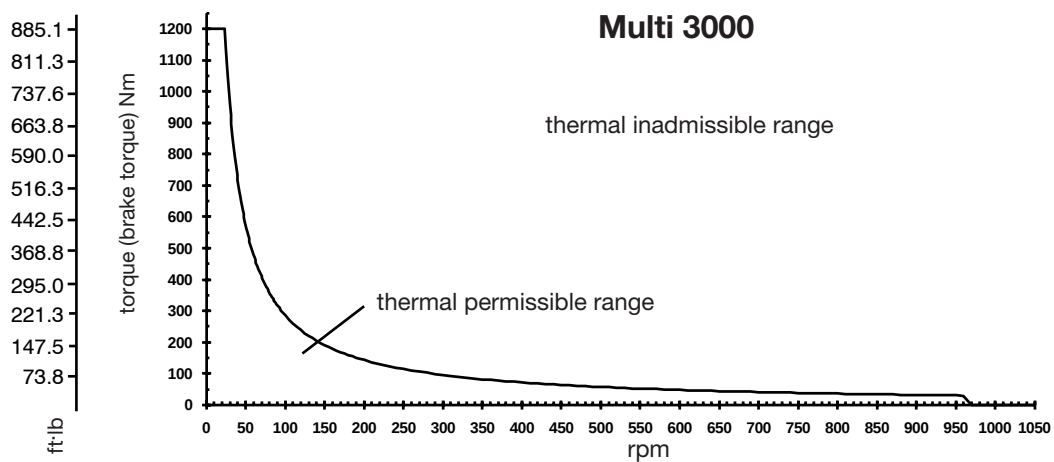
Multi 500



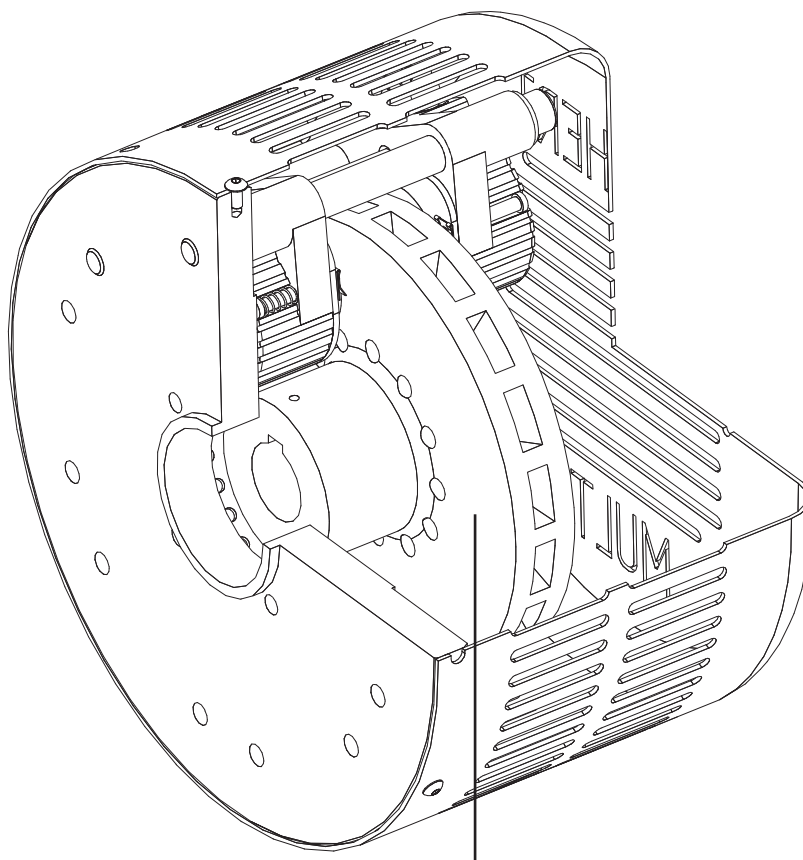
Multi 1500



Multi 3000



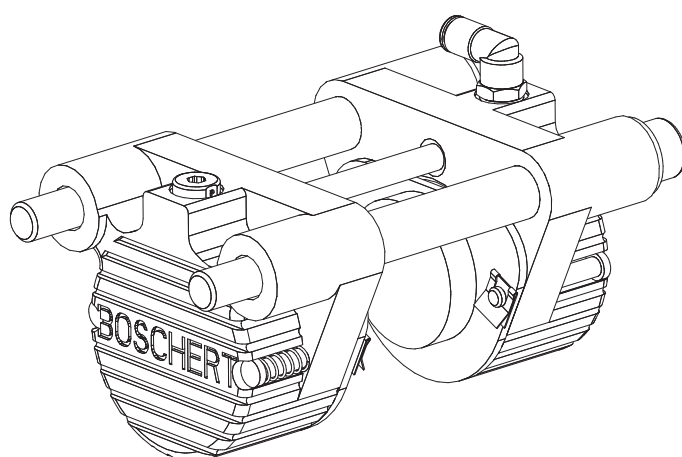
MULTI wearing-parts



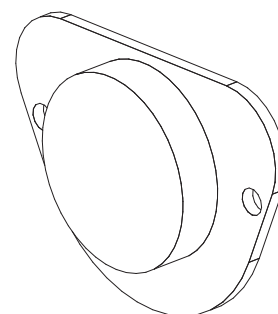
brake disc

Please note on your order:

- size of Safety Chuck
- size of brake



calliper BNR 18500002



brake lining BNR 18500005-1

1 set brake linings = 2 pieces

7.0 Clutch schedule



	Clutch			Info
	manual	pneumatic	membrane I	
Type Mini				7.00
friction performance kW (h.p.)	0.1 (0.134)	0,1 (0.134)	0,1 (0.134)	
max. friction torque Nm (ft·lb)	30 (22.13)	30 (22.13)	30 (22.13)	



	Clutch			Info
	manual	pneumatic	membrane I	
Type Mini				7.20
friction performance kW (h.p.)	0.2 (0.268)	0.2 (0.268)	0.2 (0.268)	
max. friction torque Nm (ft·lb)	50 (36.88)	50 (36.88)	50 (36.88)	

7.00 Clutch type mini



Clutch manual



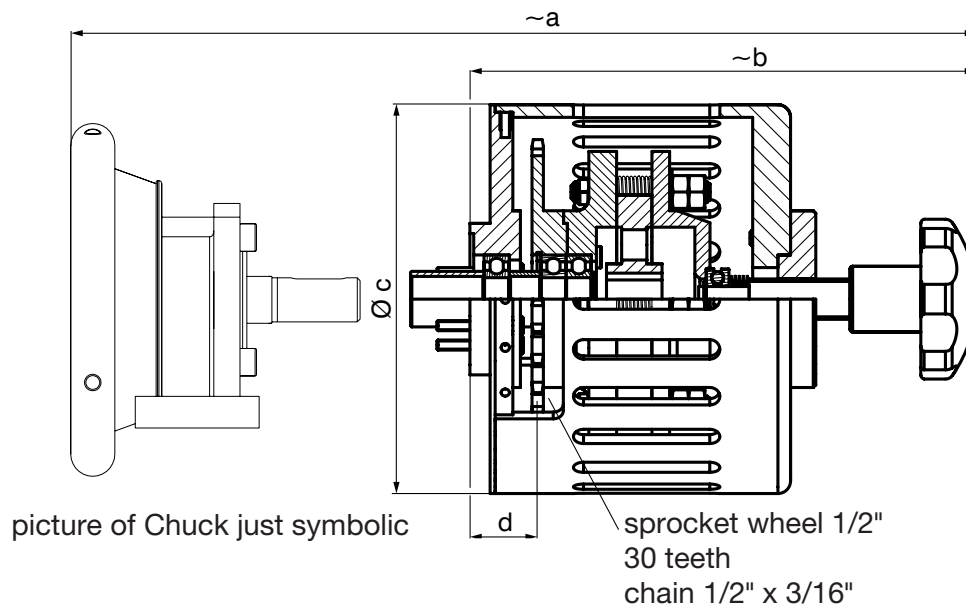
Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	pneumatic	membrane I
Type Mini			
friction performance kW (h.p.)	0.1 (0.134)	0.1 (0.134)	0.1 (0.134)
max. friction torque Nm (ft·lb)	30 (22.1)	30 (22.1)	30 (22.1)

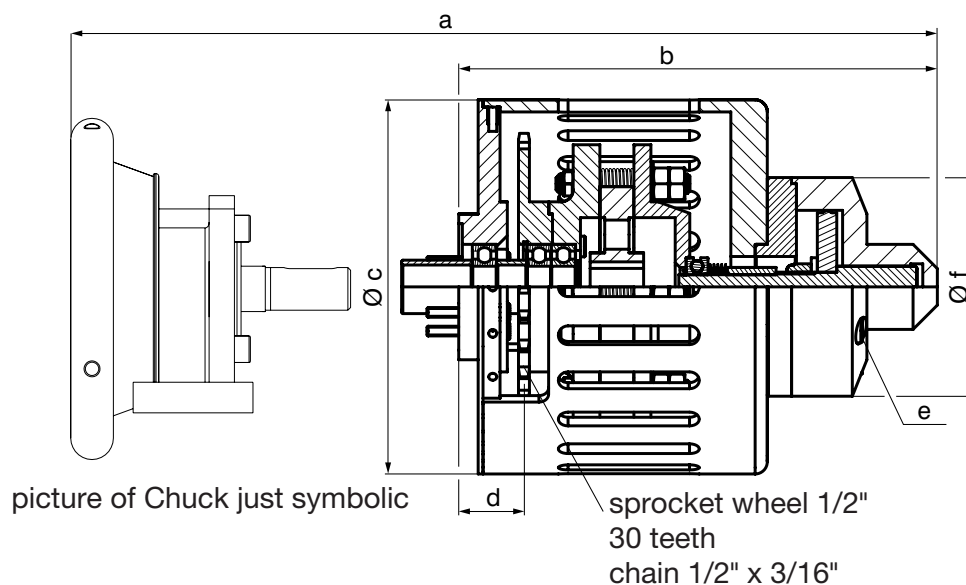
Safety Chuck with clutch manual



	a	b	c	d
Safety Chuck Mini + Clutch manual	264	200	162	32,5

[Dimension schedule for Boschert-Chuck see chapter 2.00](#)

Safety Chuck with clutch pneumatic

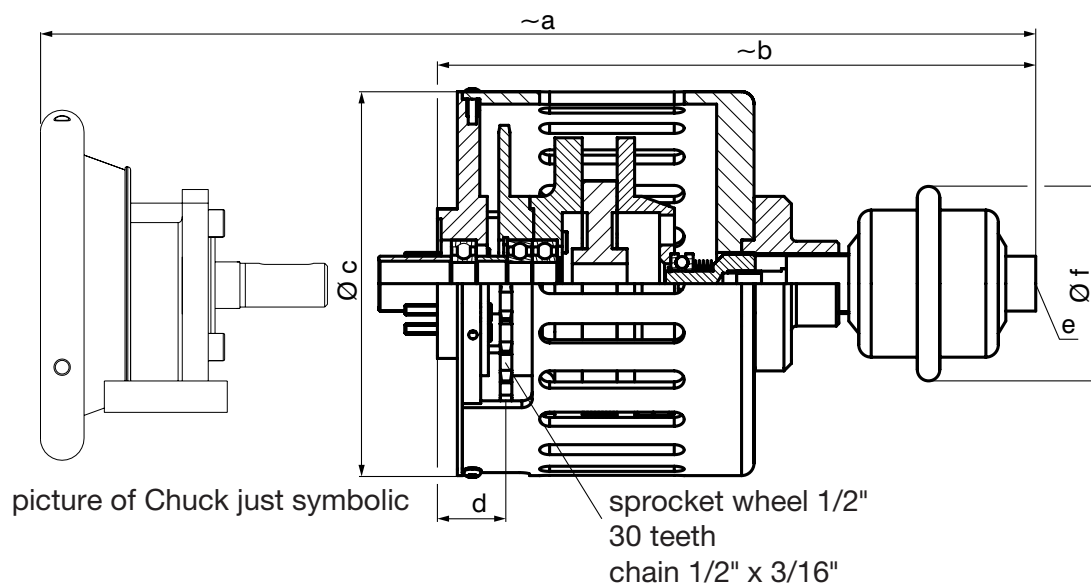


	a	b	c	d	e	f
Safety Chuck Mini + Clutch pneumatic	261	197	162	32,5	G 1/8	80

[Dimension schedule for Boschert-Chuck see chapter 2.00](#)

Clutch mini and membrane cylinder I

Safety Chuck with clutch and membrane cylinder I



	a	b	c	d	e	f
Safety Chuck Mini + clutch pneumatic	305	240	162	32,5	G 1/4	80

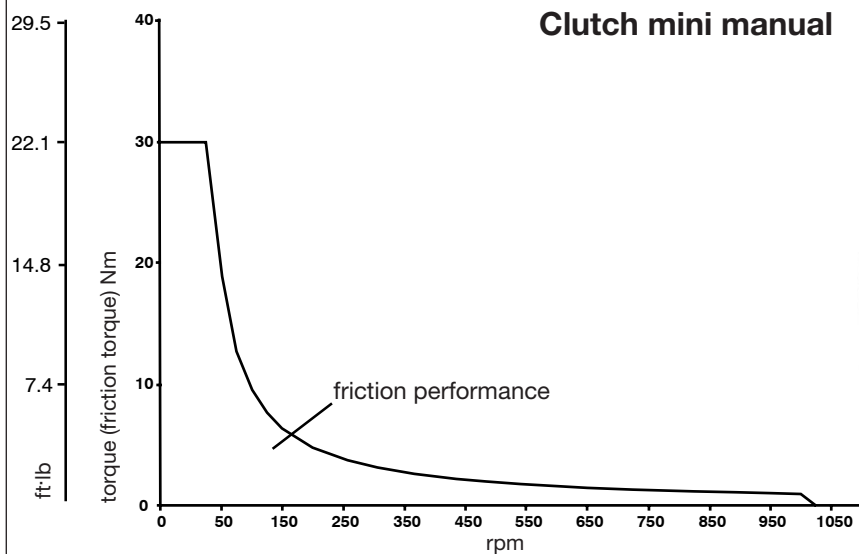
[Dimension schedule for Boschert-Chuck see chapter 2.00](#)

Performance diagrams

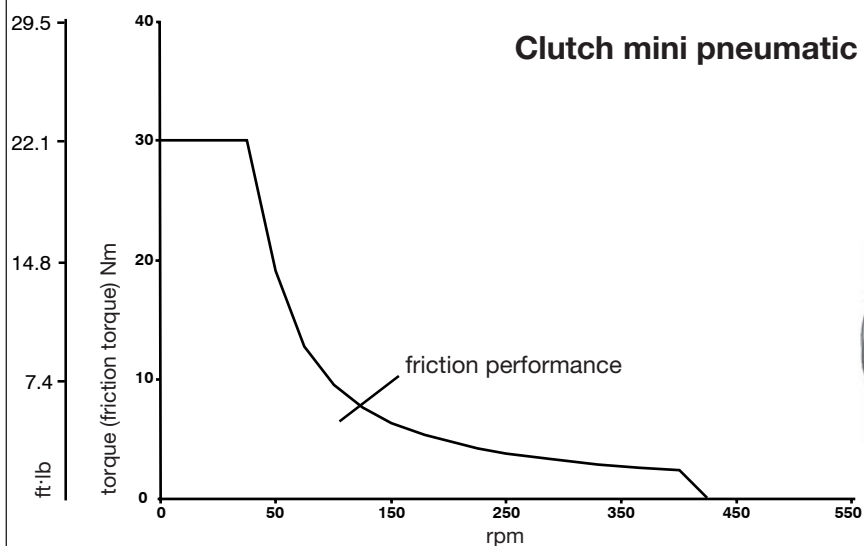
Clutch mini



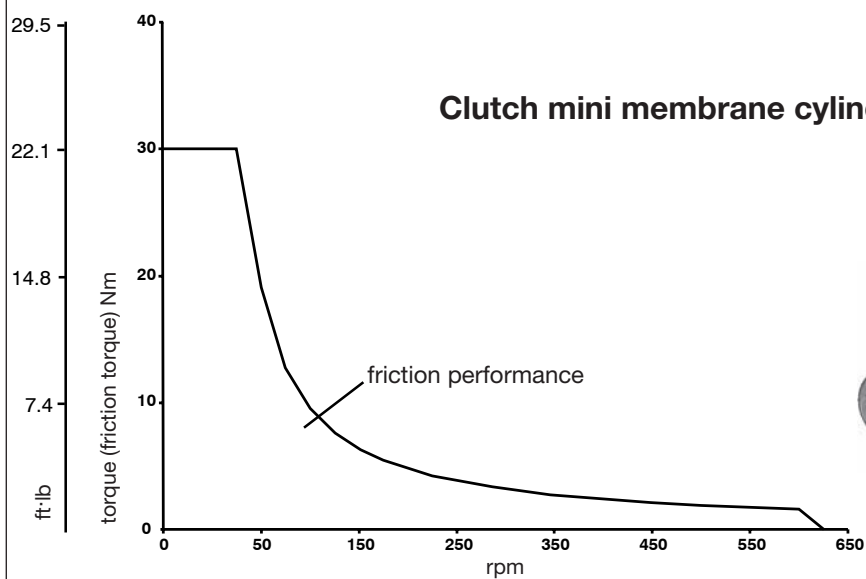
Clutch mini manual



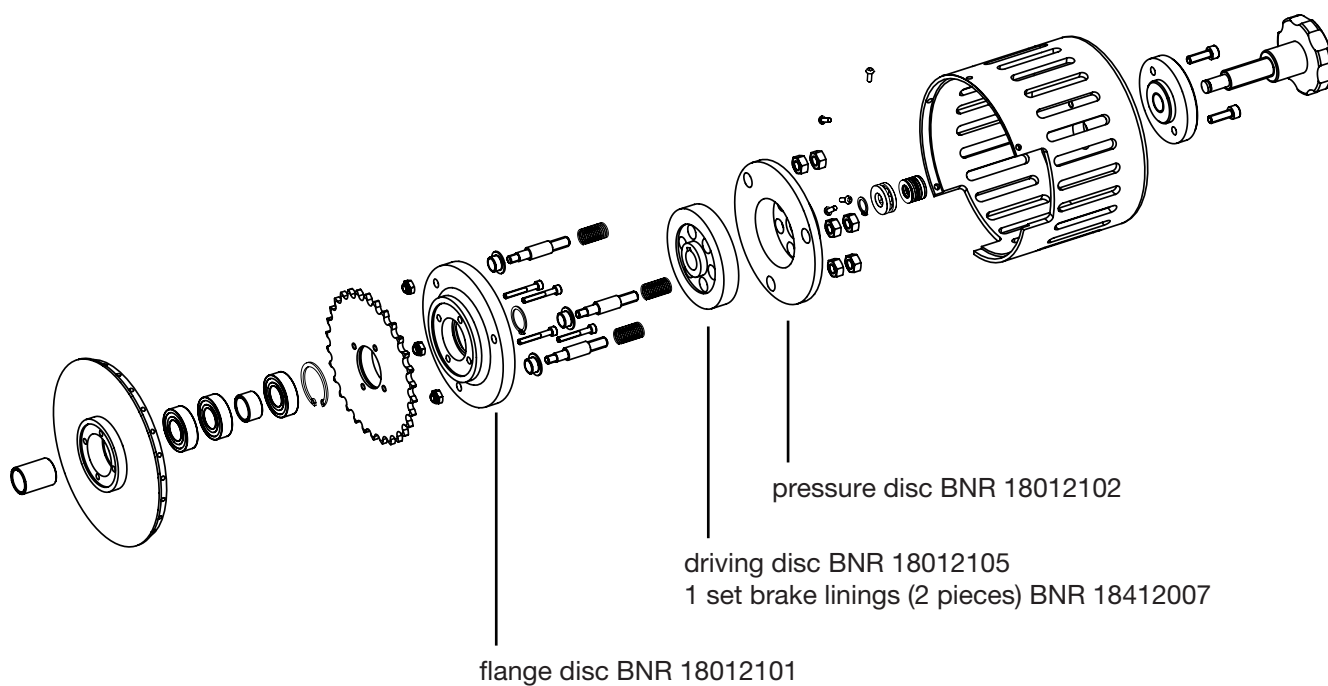
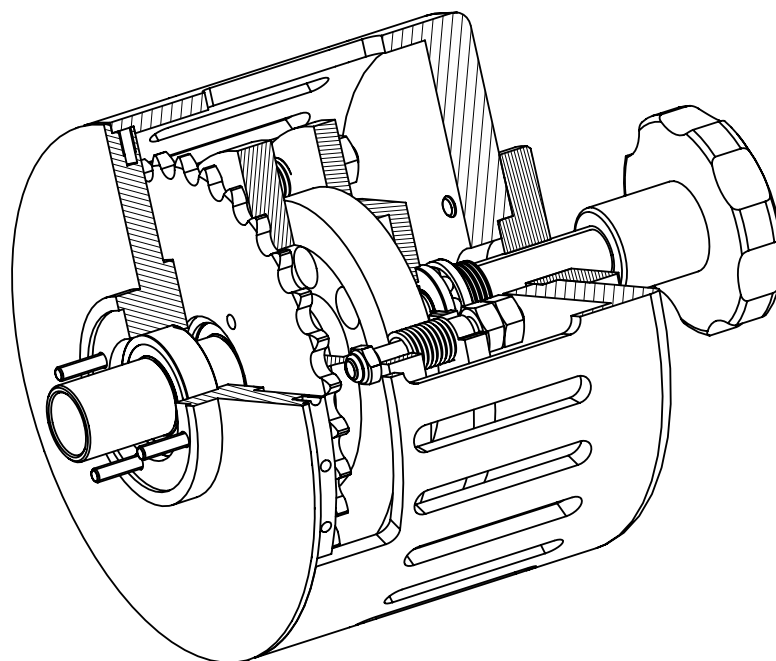
Clutch mini pneumatic



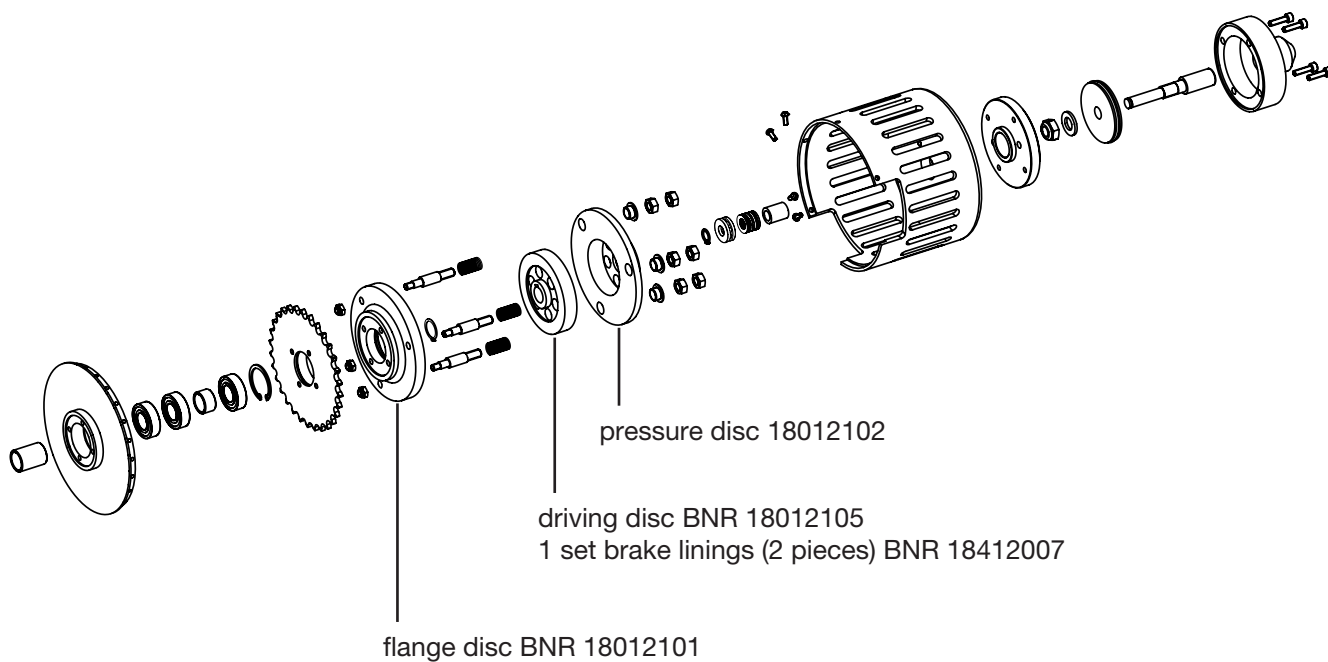
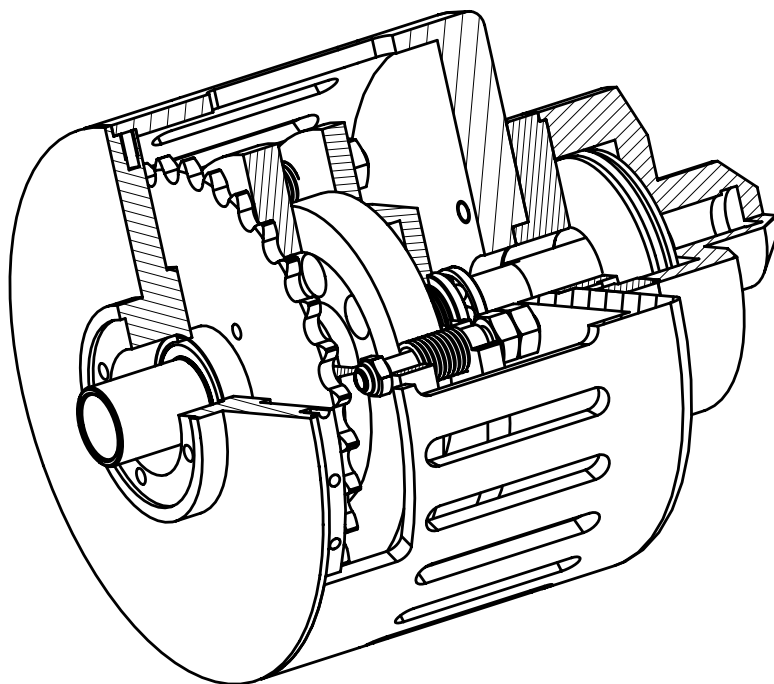
Clutch mini membrane cylinder I



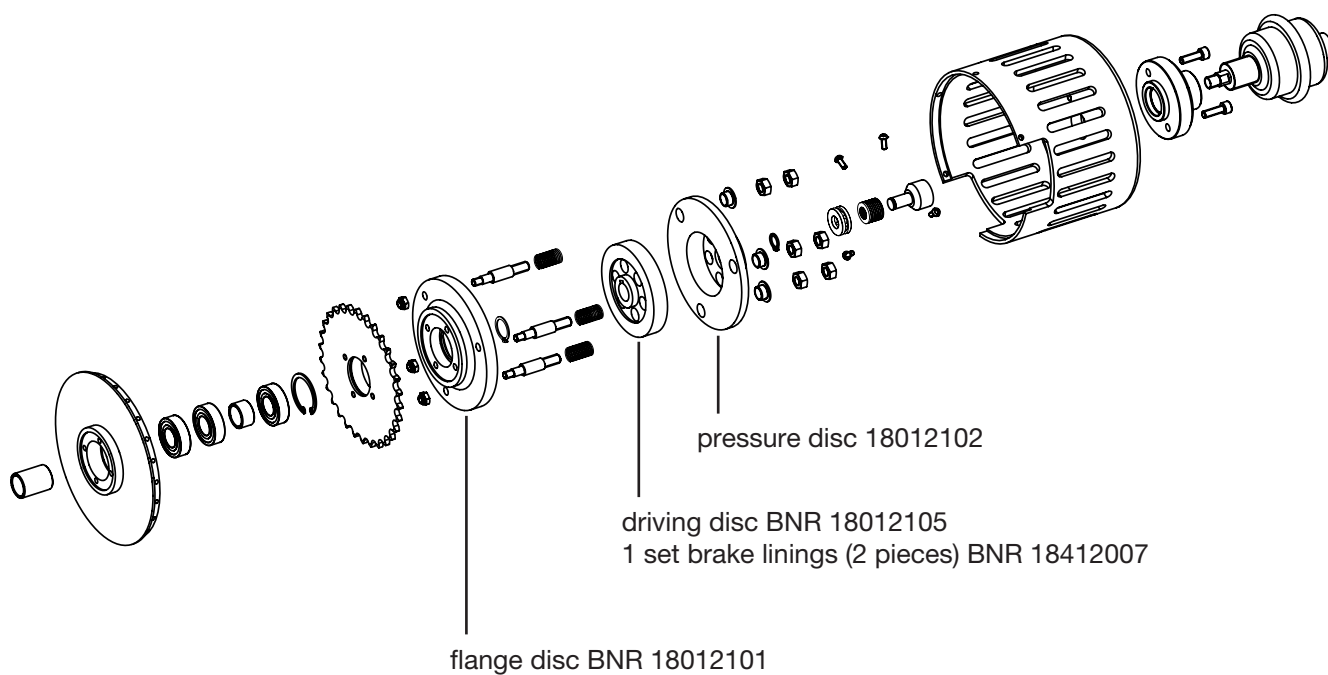
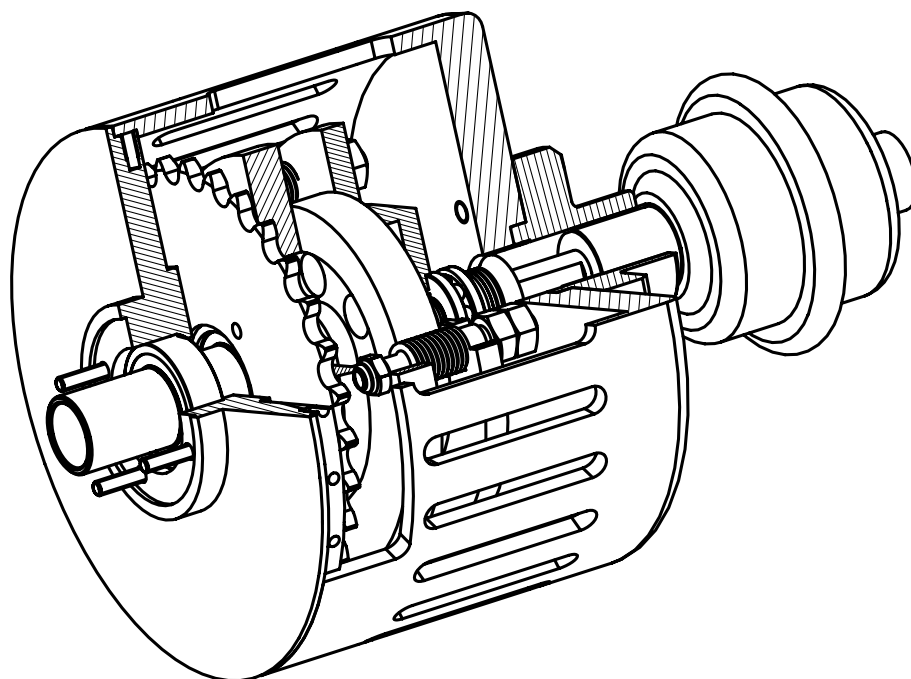
Clutch mini manual wearing-parts



Clutch mini pneumatic wearing-parts



Clutch mini membrane I wearing-parts



7.20 Clutch type 22-30 to 40-50



Clutch manual



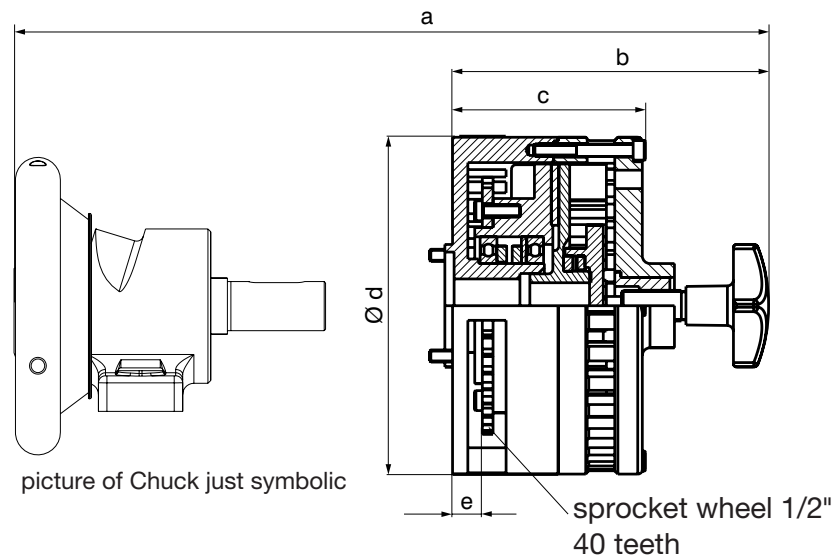
Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	pneumatic	membrane I
type 22-30 bis 40-50			
friction performance kW (h.p.)	0.2 (0.268)	0.2 (0.268)	0.2 (0.268)
max. friction torque Nm (ft·lb)	50 (36.9)	50 (36.9)	50 (36.9)

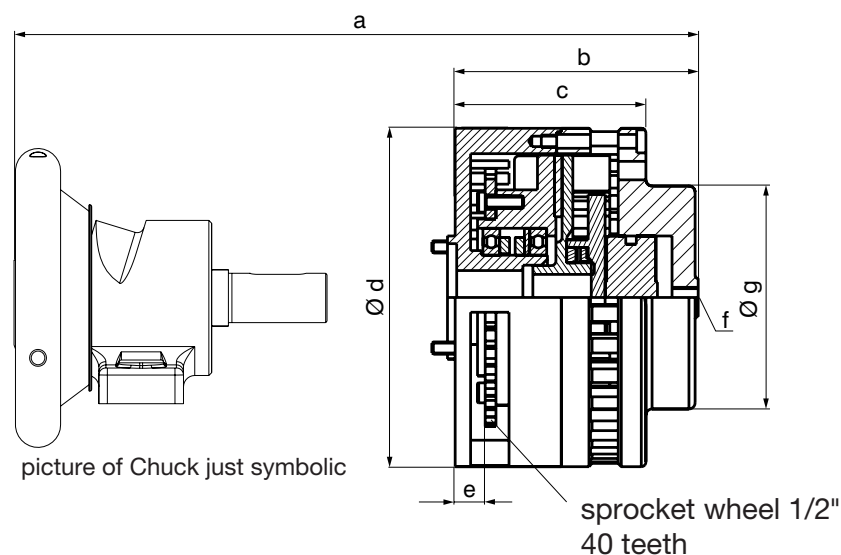
Safety Chuck with clutch manual



	a	b	c	d	e
Safety Chuck 22-30 + clutch manual	344	214	124	220	19
Safety Chuck 30-40 + clutch manual	361	214	124	220	19
Safety Chuck 40-50 + clutch manual	412	214	124	220	19

[Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43](#)

Safety Chuck with clutch pneumatic

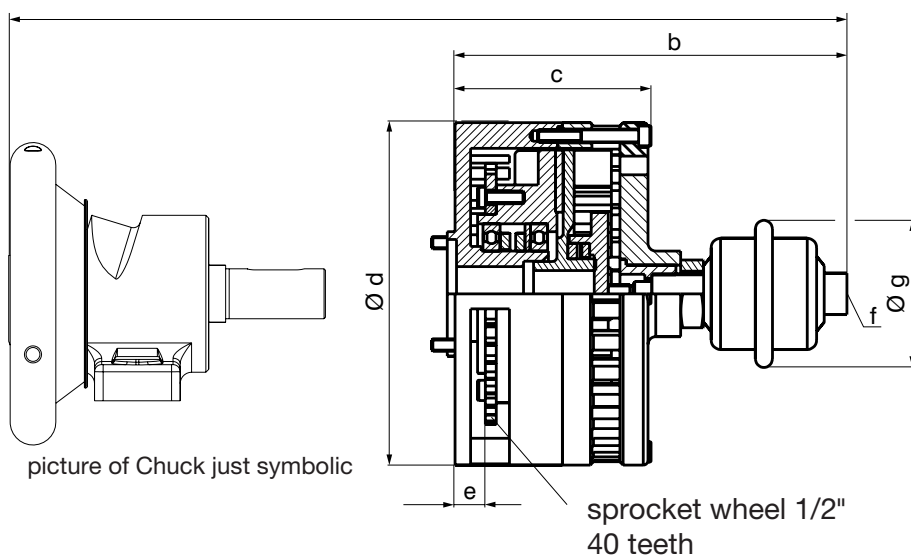


	a	b	c	d	e	f	g
Safety Chuck 22-30 + clutch pneumatic	281	160	124	220	19	G 1/4	145
Safety Chuck 30-40 + clutch pneumatic	298	160	124	220	19	G 1/4	145
Safety Chuck 40-50 + clutch pneumatic	349	160	124	220	19	G 1/4	145

[Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43](#)

Clutch with membrane cylinder I

Safety Chuck with clutch and membrane cylinder I

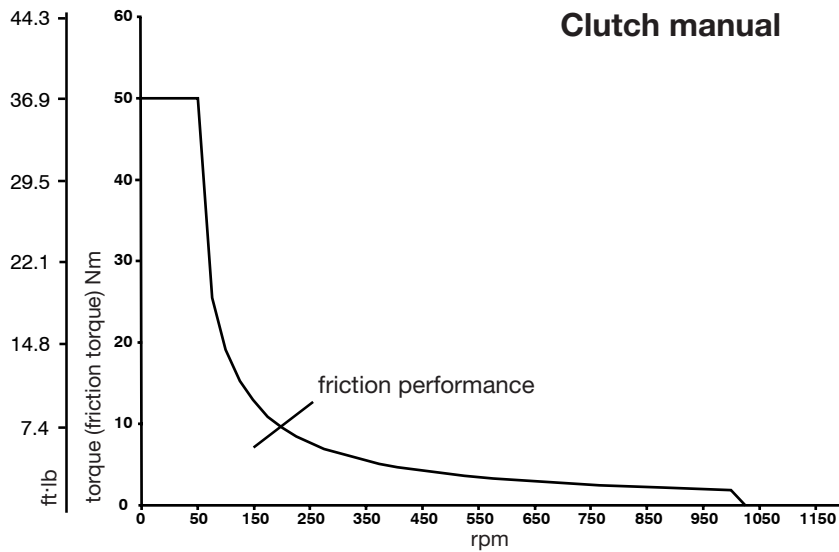


	a	b	c	d	e	f	g
Safety Chuck 22-30 + clutch membrane cylinder I	343	220	124	220	19	G 1/4	80
Safety Chuck 30-40 + clutch membrane cylinder I	360	220	124	220	19	G 1/4	80
Safety Chuck 40-50 + clutch membrane cylinder I	411	220	124	220	19	G 1/4	80

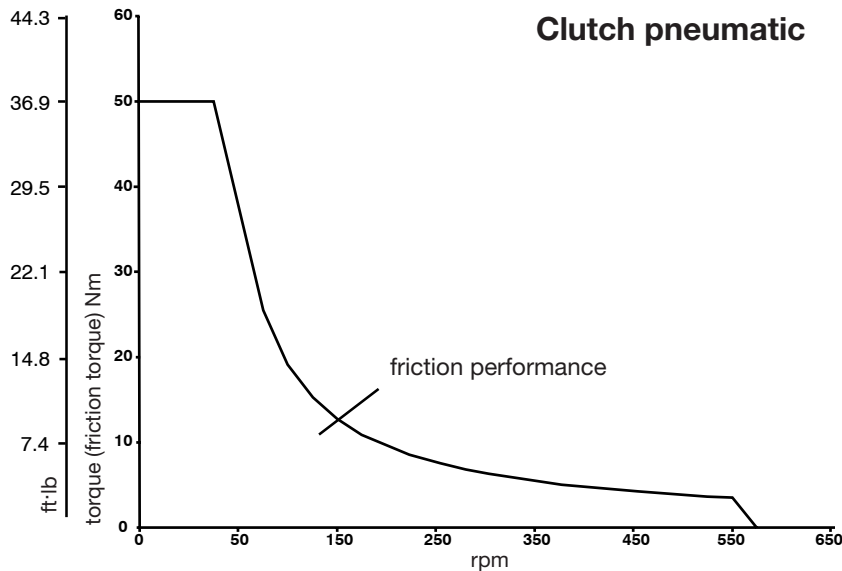
[Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43](#)

Clutch performance diagrams

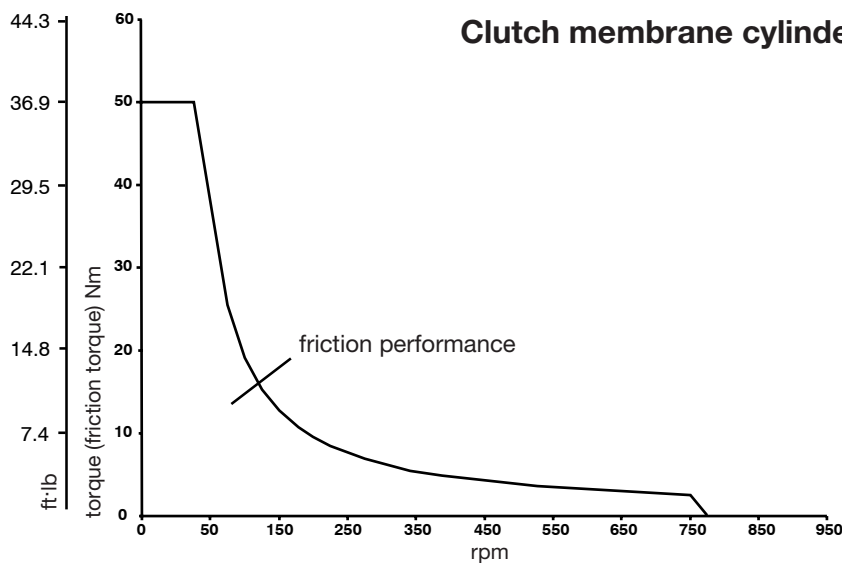
Clutch manual



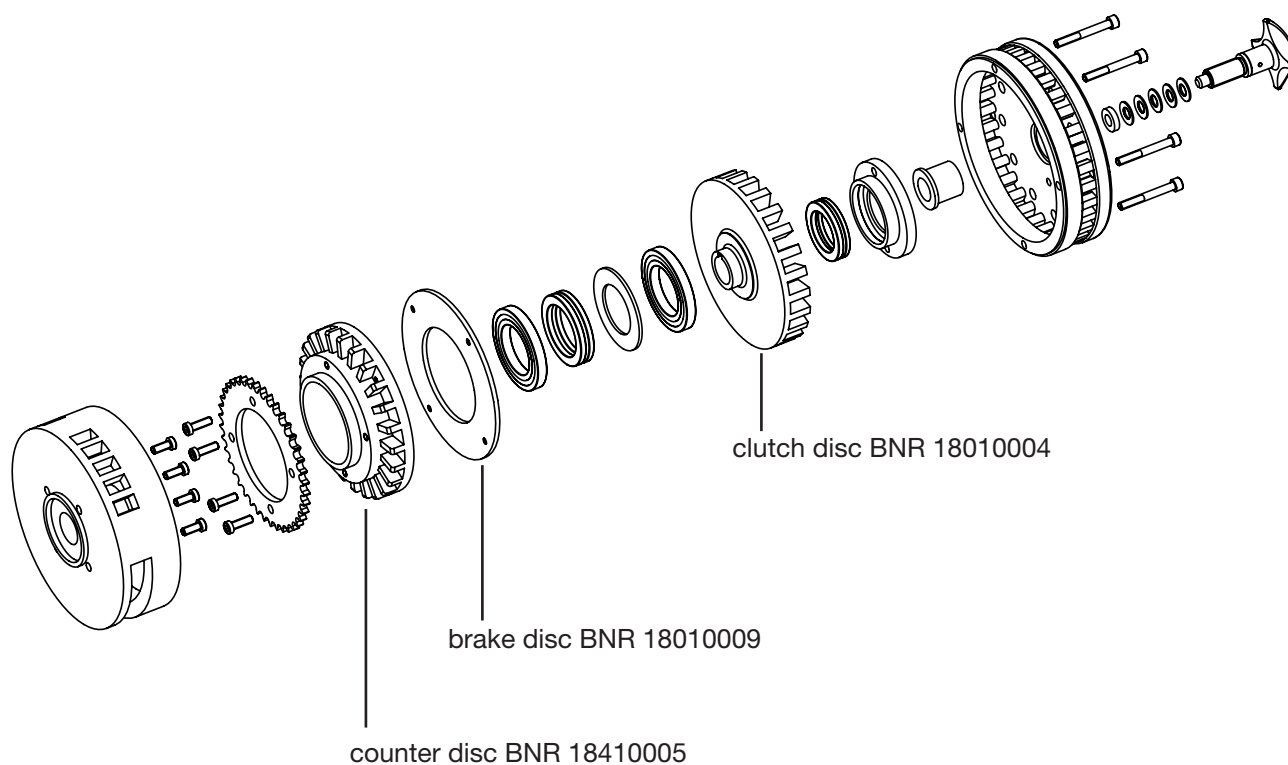
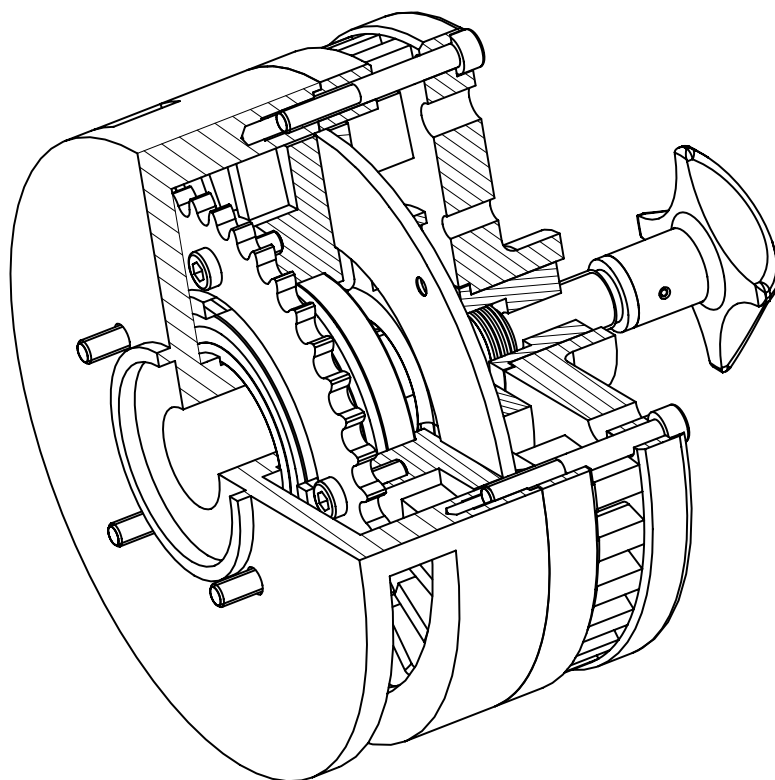
Clutch pneumatic



Clutch membrane cylinder I



Clutch manual wearing-parts

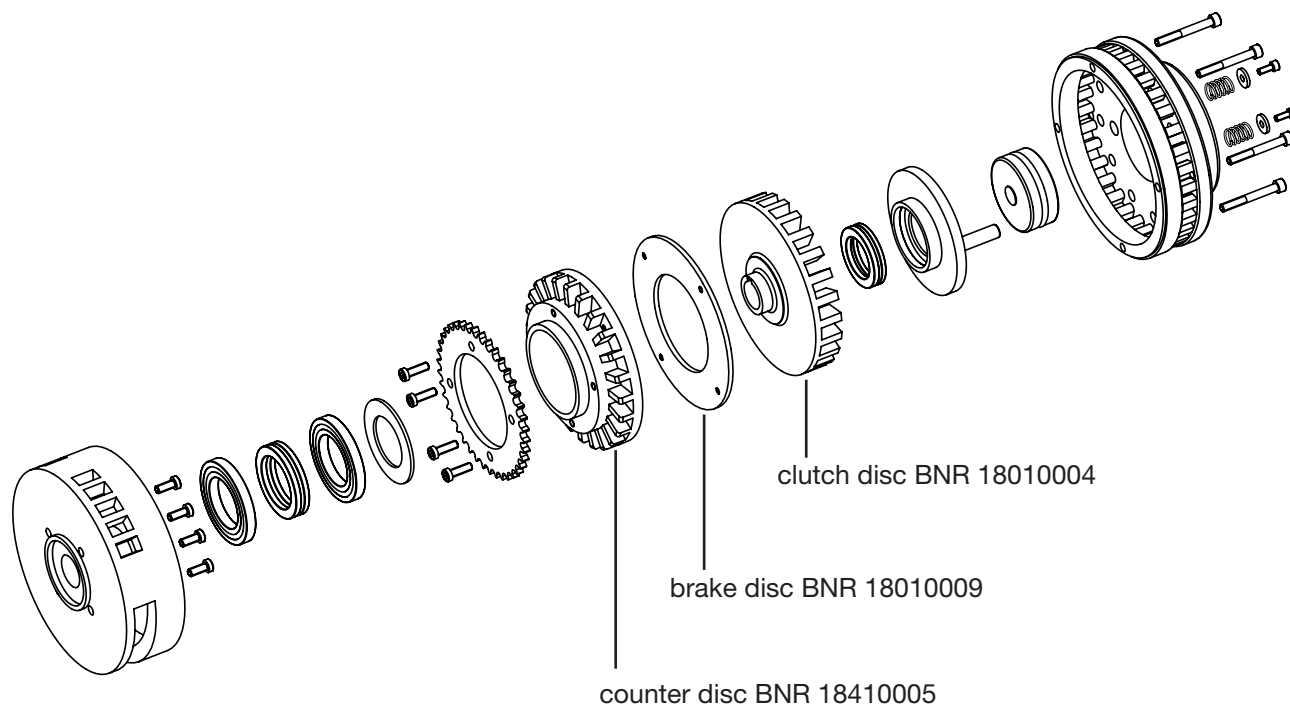
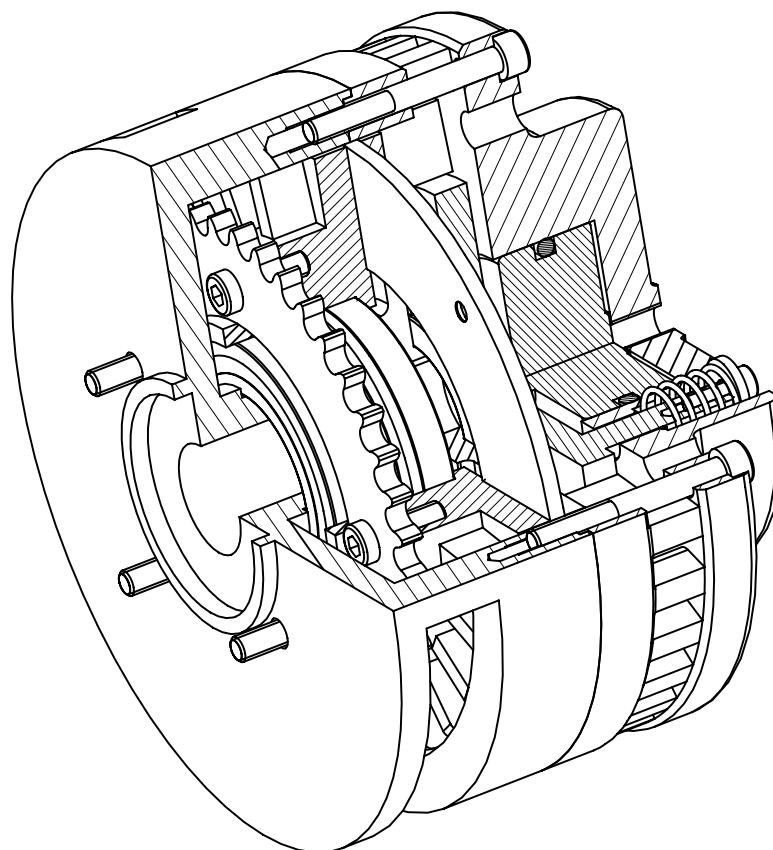


clutch disc BNR 18010004

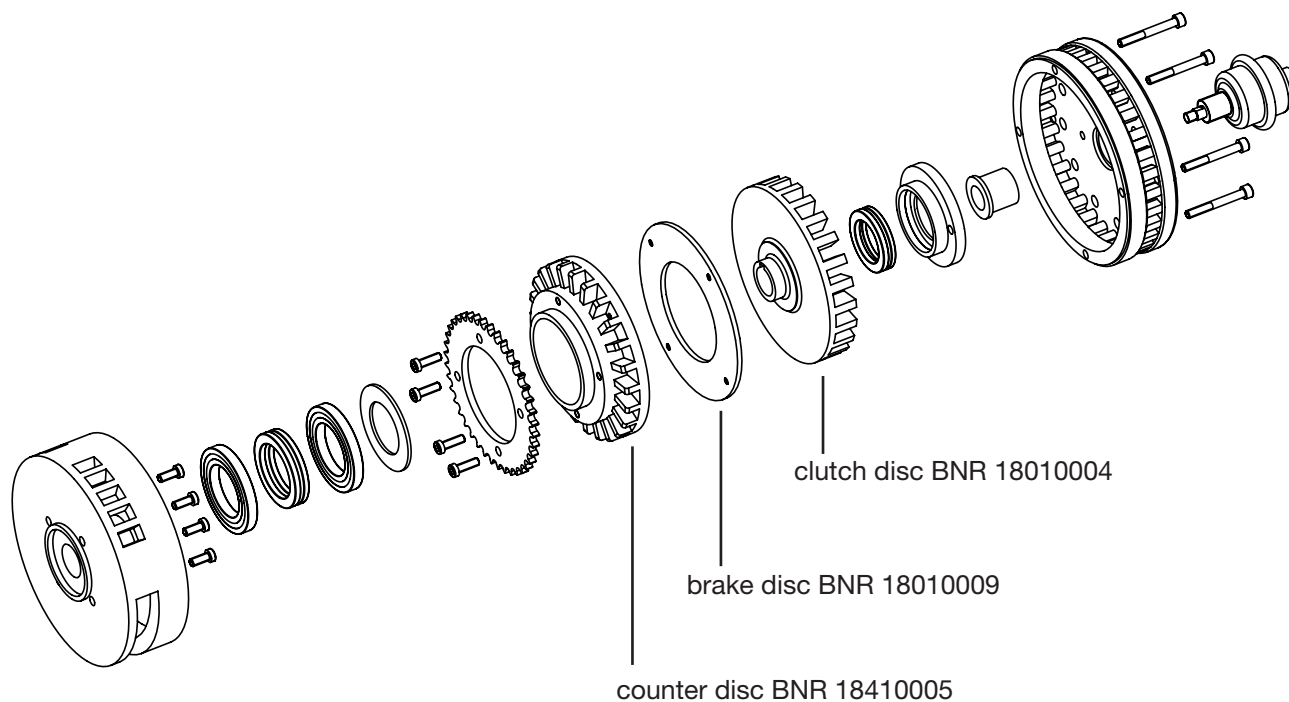
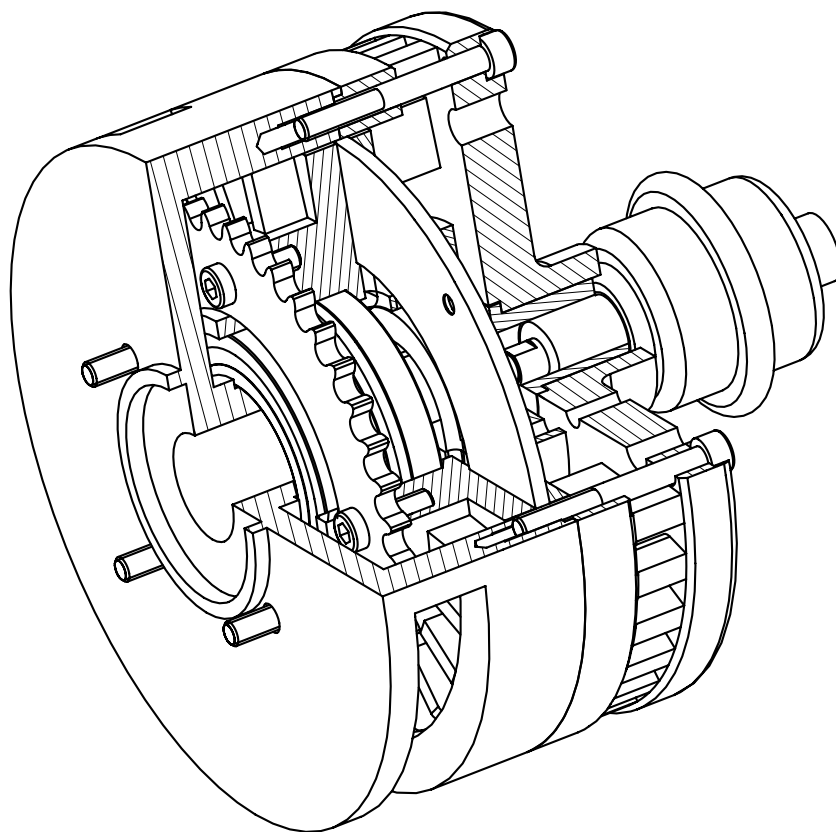
brake disc BNR 18010009

counter disc BNR 18410005

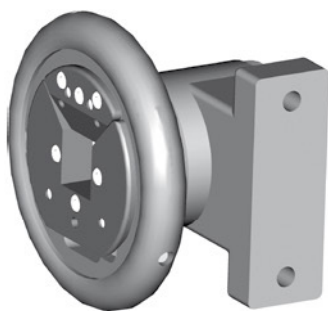
Clutch pneumatic wearing-parts



Clutch membrane cylinder I wearing-parts

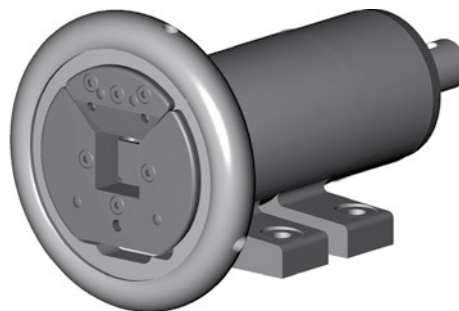


8.00 Overview Options



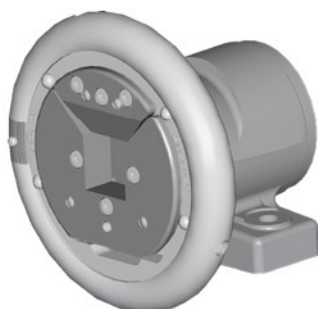
Foot mounted chucks for 90° mounting

[Info: 8.01](#)



Extended Chucks

[Info: 8.10](#) [Info: 8.11](#)



Handwheel lock HRV-S

[Info: 8.30](#) [Info: 8.31](#)



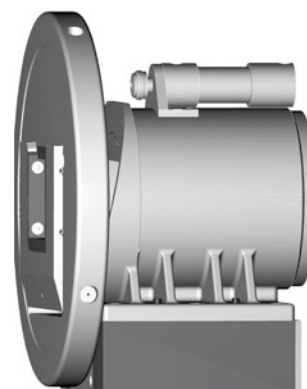
Handwheel lock HRV II

[Info: 8.30](#) [Info: 8.31](#)



Automatic and continuous airshaft inflation

[Info: 8.41](#)



Hydraulic opening and closing

[Info: 8.50](#)



Monitoring: chuck opening positioning

[Info: 8.60](#)

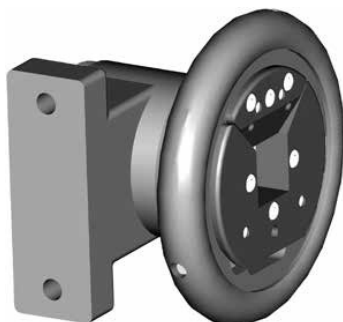


Chuck with handwheel open/close recognition

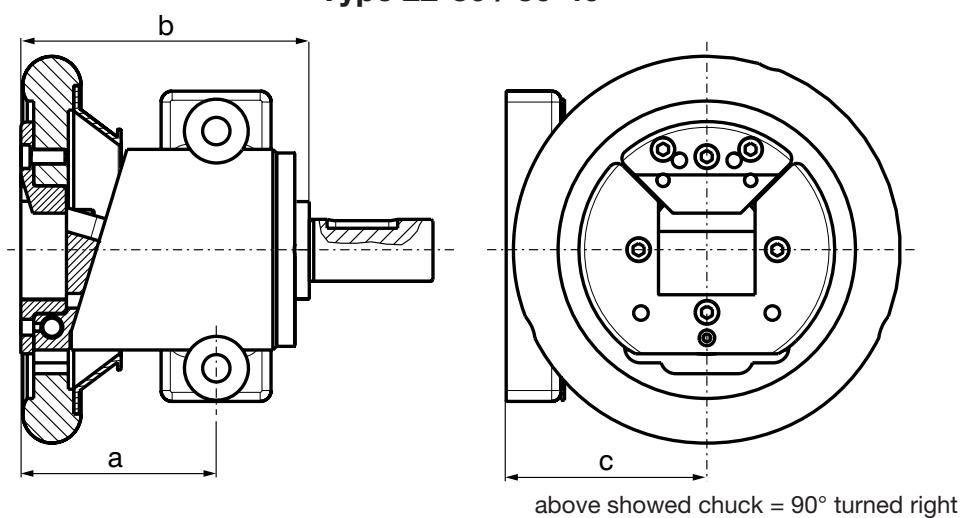
[Info: 8.61](#)

8.01 Foot mounted chucks for 90° mounting

Foot mounted chucks to fix at a vertical frame



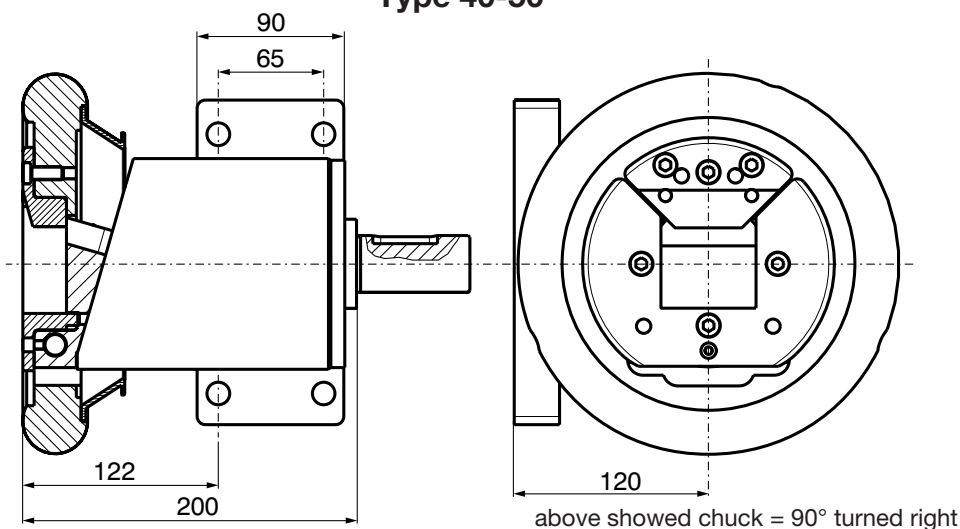
Type 22-30 / 30-40



	a	b	c
ST 22-30	92	132	85
ST 30-40	107	152	110

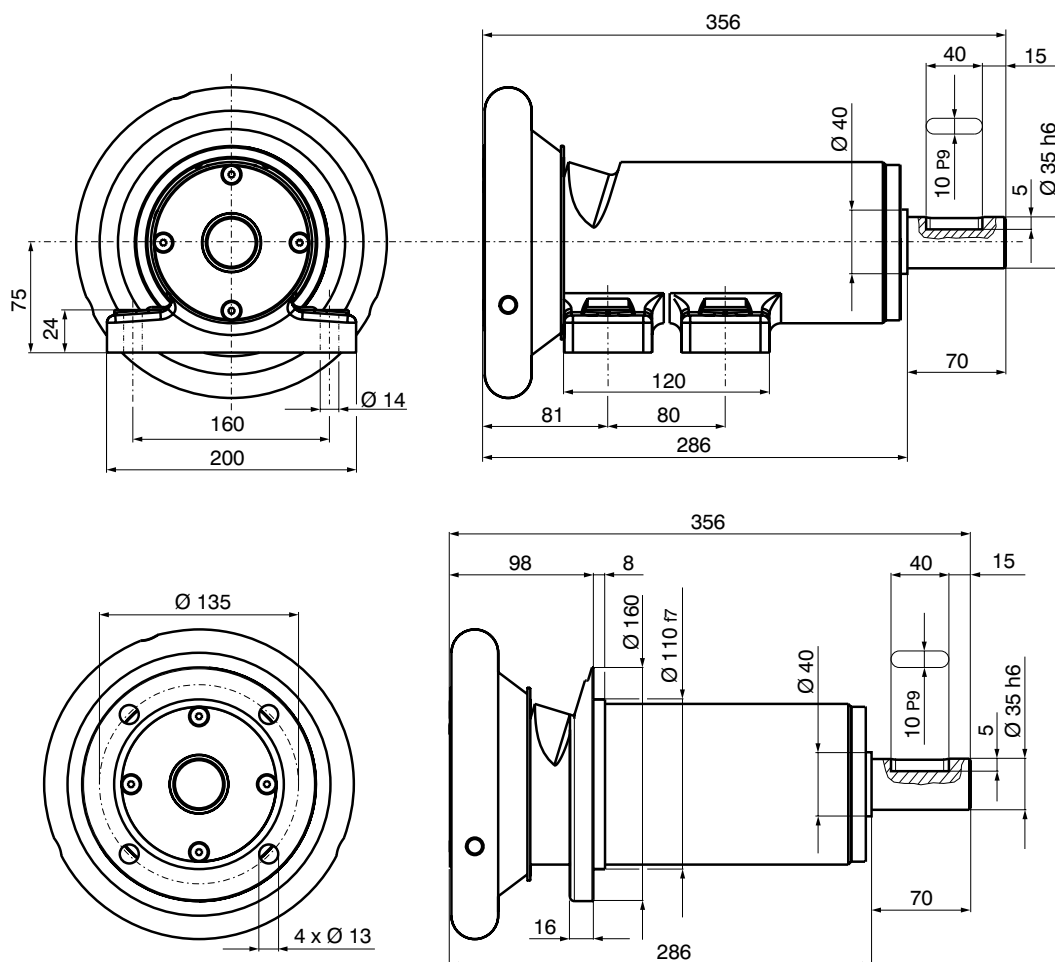
Chuck dimensions are different from standard chucks [2.20-2.23](#) / [2.30-2.33](#)

Type 40-50



Chuck dimensions are different from standard chucks [2.40-2.43](#)

Extended Chucks type 30-40 flange and foot mounted



Special shaft ends
on customer request

Max. shaft-dia.: Ø 50 mm
(special shaft without stop)

Square bar:

□ 30 mm - 40 mm (1.1811" - 1.5748")

Standard square bar:

□ 40 mm (1.5748")

Special square bar VT1/VT2:

on request

max. beam weight:

2000 kg (4410 lbs)

max. torque:

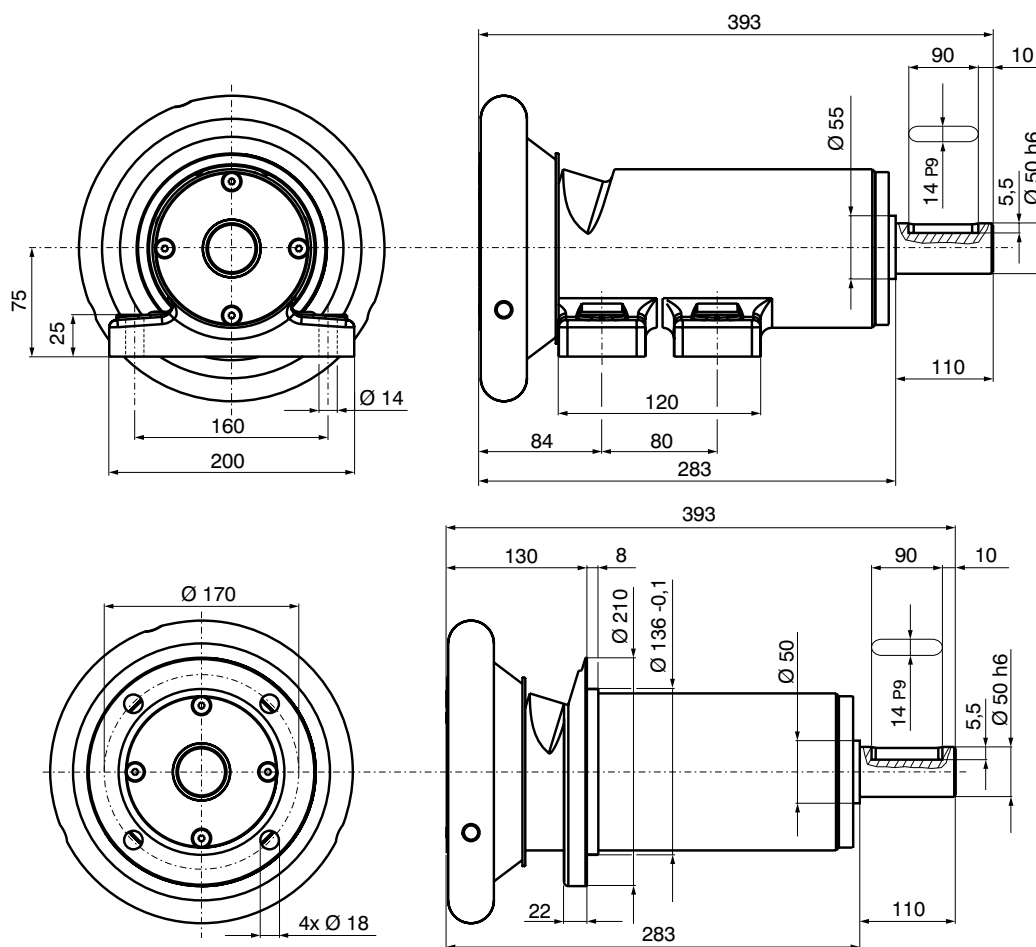
350 Nm (258.1 ft-lb)

max. rpm:

1350 min⁻¹

		Info
Type	VT	2.55
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.33
Handwheel lock	HRV-S / HRV II (left/right)	2.33
Add. parts	brakes	6.00
	clutches	7.00

Extended Chucks type 40 - 50 flange and foot mounted



Special shaft ends
on customer request

Max. shaft-dia.: Ø 65 mm
(special shaft without stop)

Square bar:

□ 40 mm - 50 mm 1.5748" - 1.9685"

Standard square bar:

□ 50 mm (1.9685")

Special square bar VT1/VT2:

on request

max. beam weight:

□ 3000 kg (6610 lbs)

max. torque:

⤵ 1100 Nm (800 ft·lb)

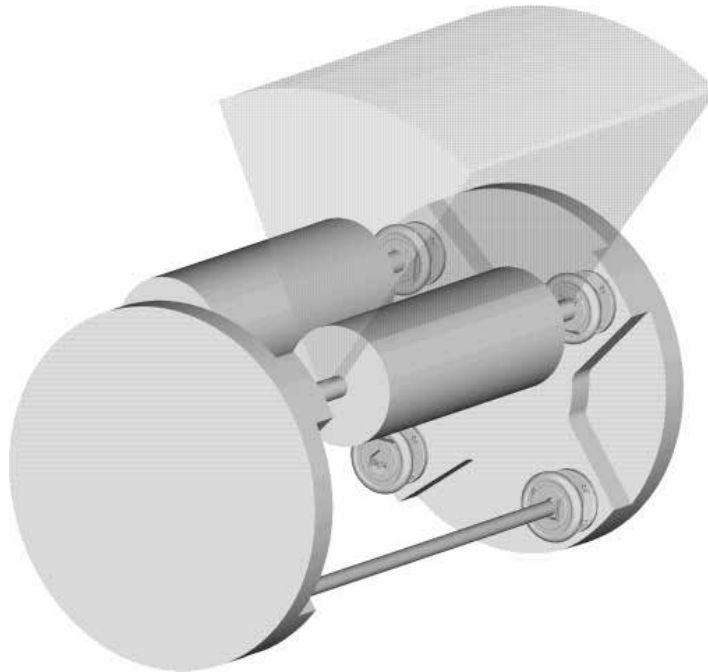
max. rpm:

1350 min⁻¹

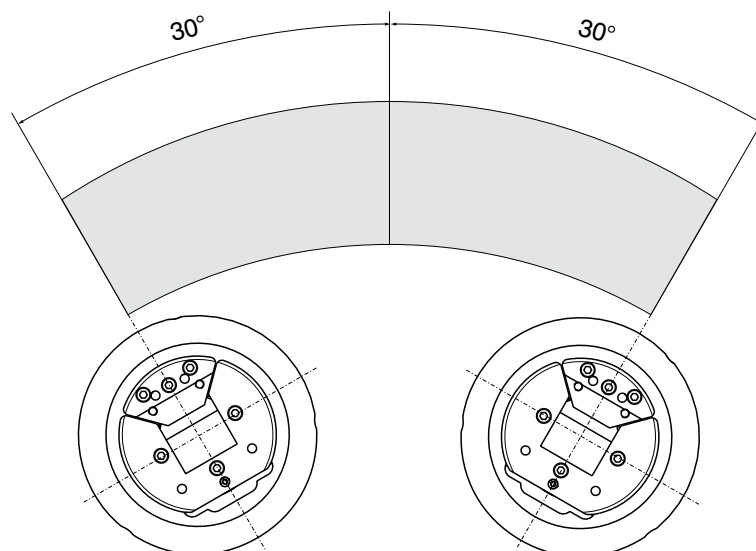
		Info
Type	VT	2.55
Journal shaft type VT	VT1 / VT2 / VT6 / VT7	2.43
Handwheel lock	HRV-S / HRV II (left/right)	2.43
Add. parts	brakes	6.00
	clutches	7.00

Extended opening angle +/- 30°

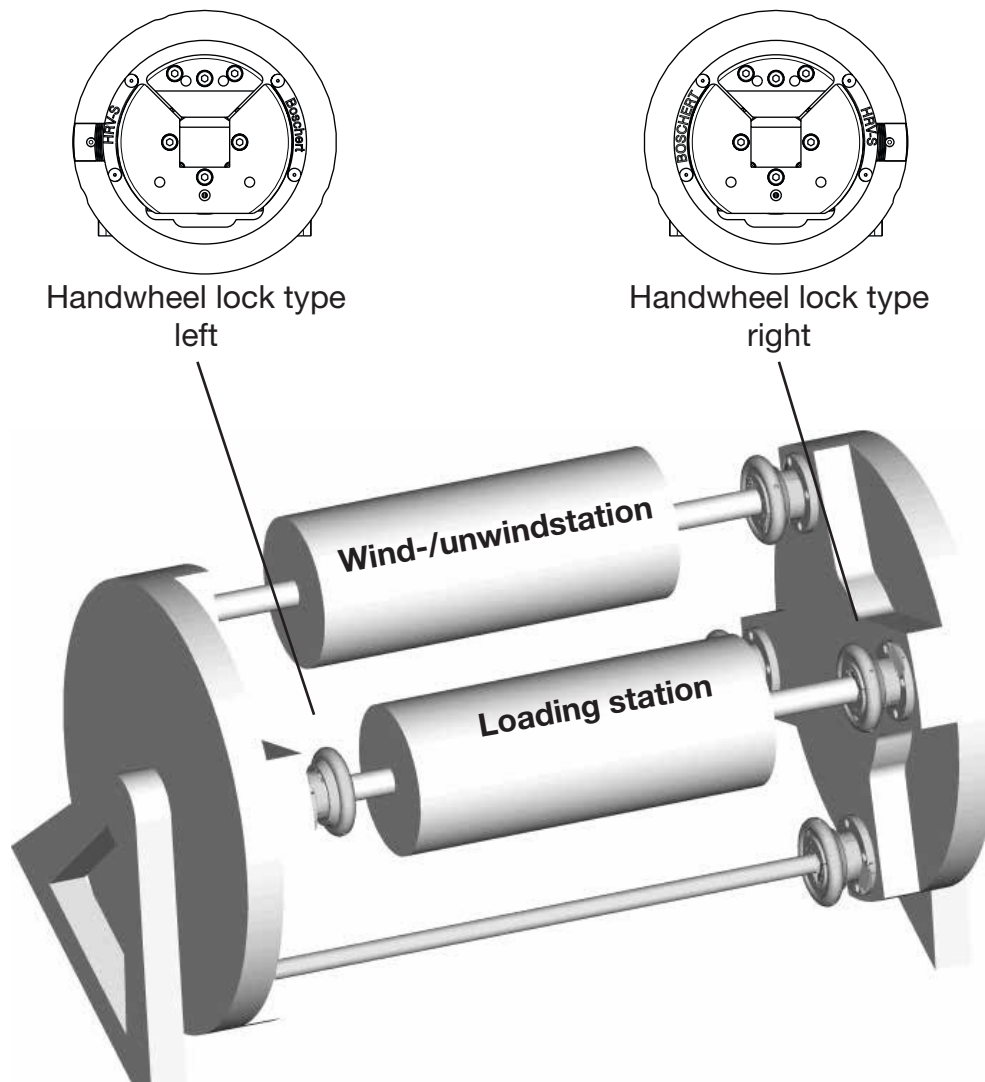
We provide chucks with extended opening angle especially for turret winders, because it allows easy exchange of the beam even when the chuck is not in exact vertical position for loading.



Increased insertion area when used in turret winders



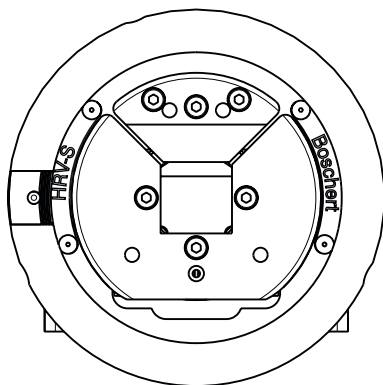
Optional opening angle to both sides up to max. 30°.



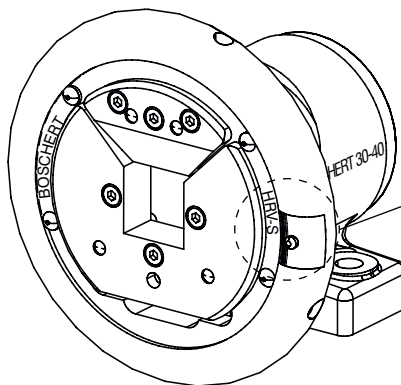
**Due to safety reasons we recommend
handwheel locks on applications in turret winders.**

Normally the face cam on the housing prevents an opening of the handwheel. On a turret winder, the safety chucks are in normal position, when they are in the loading position. For wind or unwind the chucks are turned 180° and now work upside down. In that position, the security of the face cam apex is only partly in order.

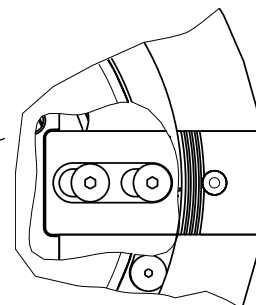
Handwheel lock HRV-S type 22-30 / 30-40 / 40-50 / 50-80



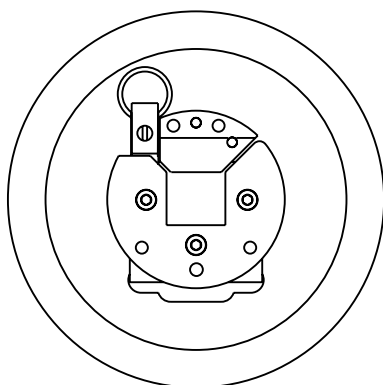
HRV-S left



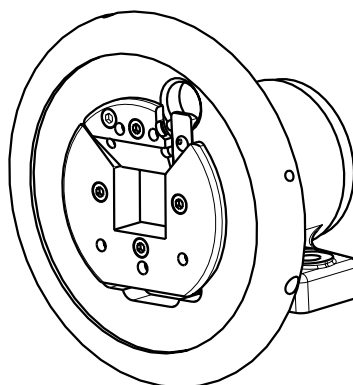
HRV-S right



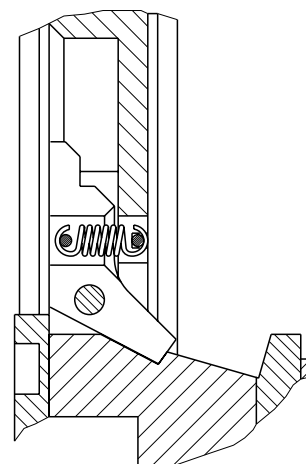
Handwheel lock HRV II type 30-40 / 40-50 / 50-80



HRV-II left



HRV-II right



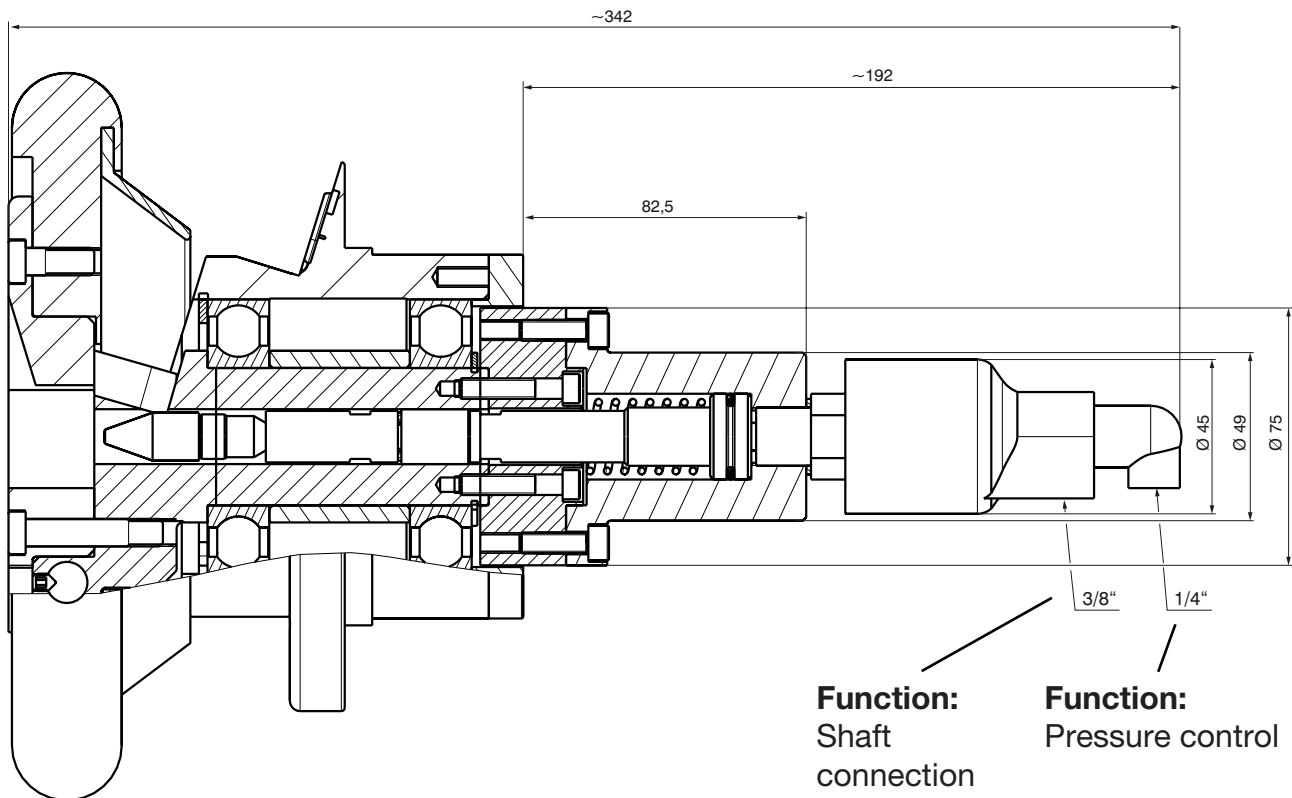
The handwheel lock HRV II is a very solid design

Handwheel lock only available in VT-style.

On using the handwheel lock HRV II on type 30-40 and 40-50 the handwheel-Ø will be ~ 248 mm.

In case of order note: The position of the lock (left or right) is necessary.

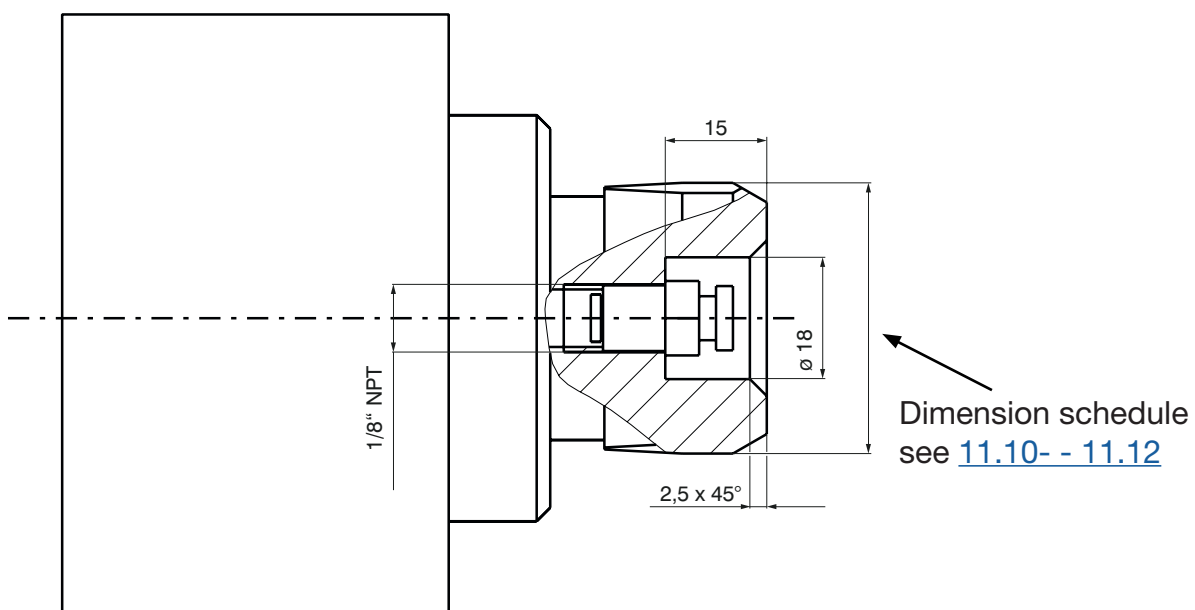
Chuck with automatic and continuous airshaft inflation



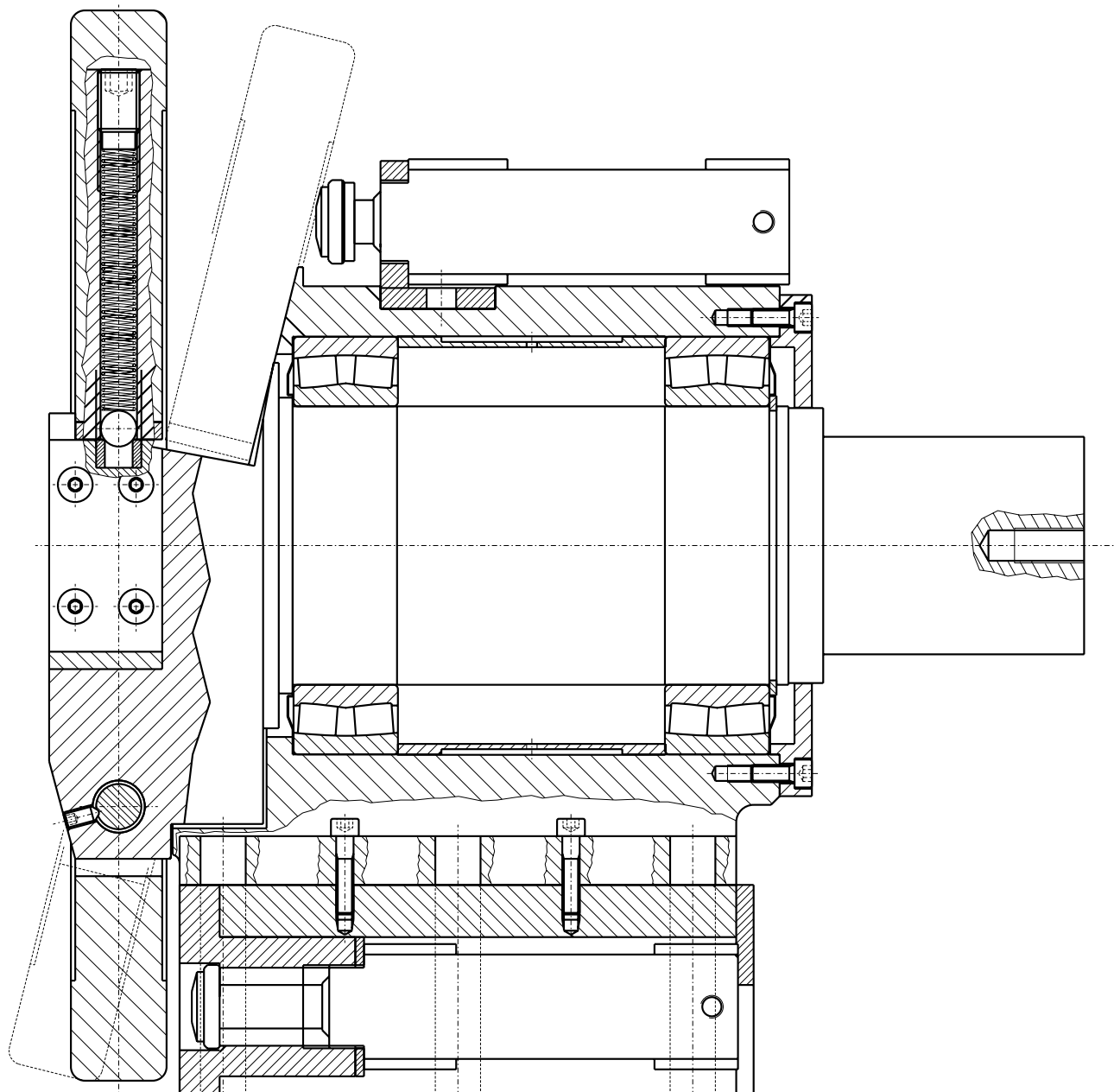
Task:

The expansion shaft is also to be used as a friction shaft. Therefore it must be possible to regulate the clamping pressure in the expansion shaft during operation.

Only available in VT-version, from type 22-30 (square bar $\square$ 28) to type 50-80



Safety Chuck hydraulic opening / closing



example: STW 120-180 hydraulic opening / closing

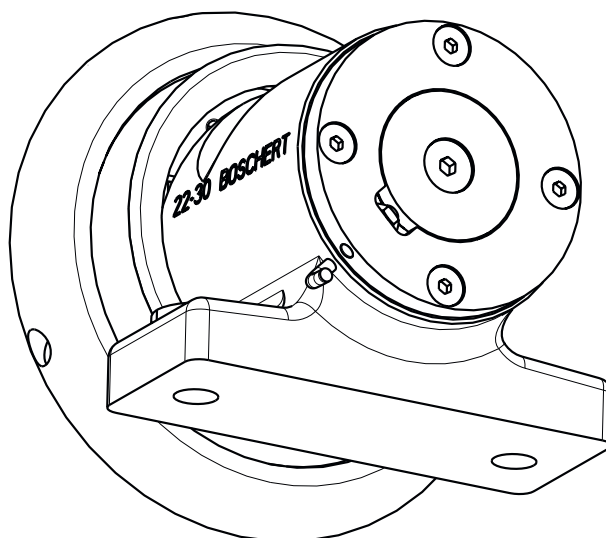
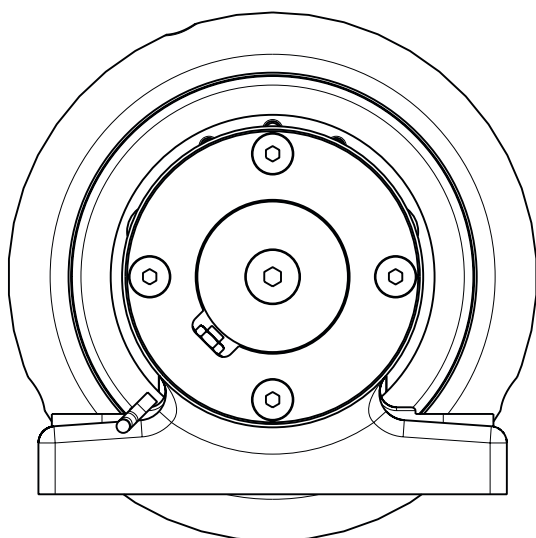
Problem::

The safety-chuck is located in a high level where it is not possible to open or close manually

Solution:

Use a cylinder to open and close hydraulically, so the chuck can be operated from the ground without problems.

Monitoring: chuck opening positioning



Shaft position location

Problem:

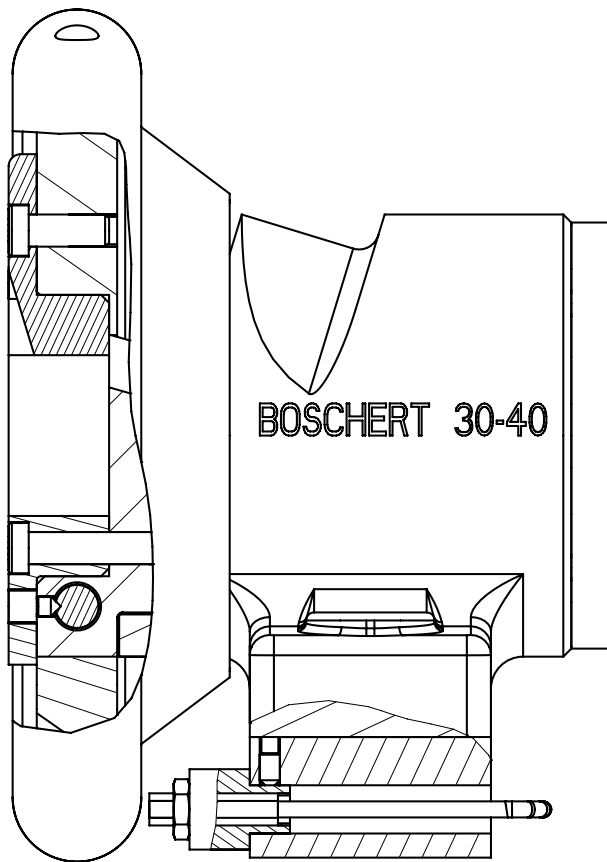
Identify the location of the hand wheel position for easy opening and closing

Solution:

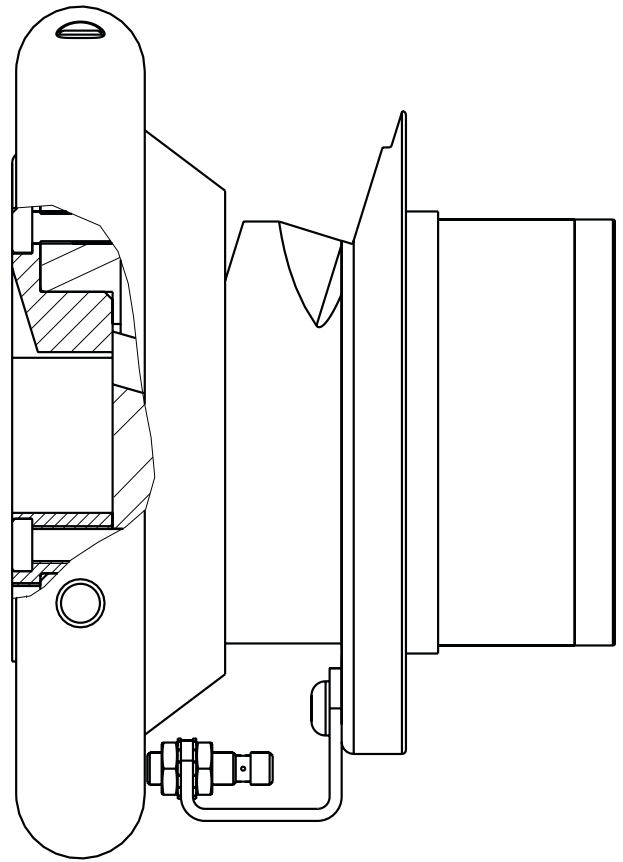
To fit a proximity sensor inside the end cover, so the shaft position can be identified electronically

type	Standard	Option
STO	x	
FLO	x	
STW		x
FLW		x

Chuck with handwheel open/close recognition



Foot mounted chuck



Flange mounted chuck

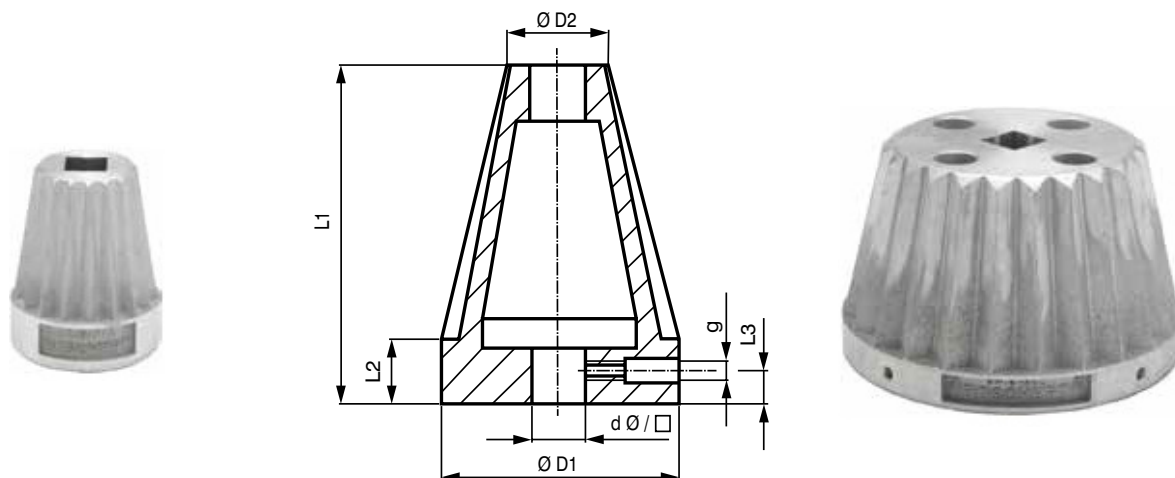
Problem:

Position sensing: handwheel closed

Solution:

Holder with proximity switch

9.00 Aluminium Cones model I - VII

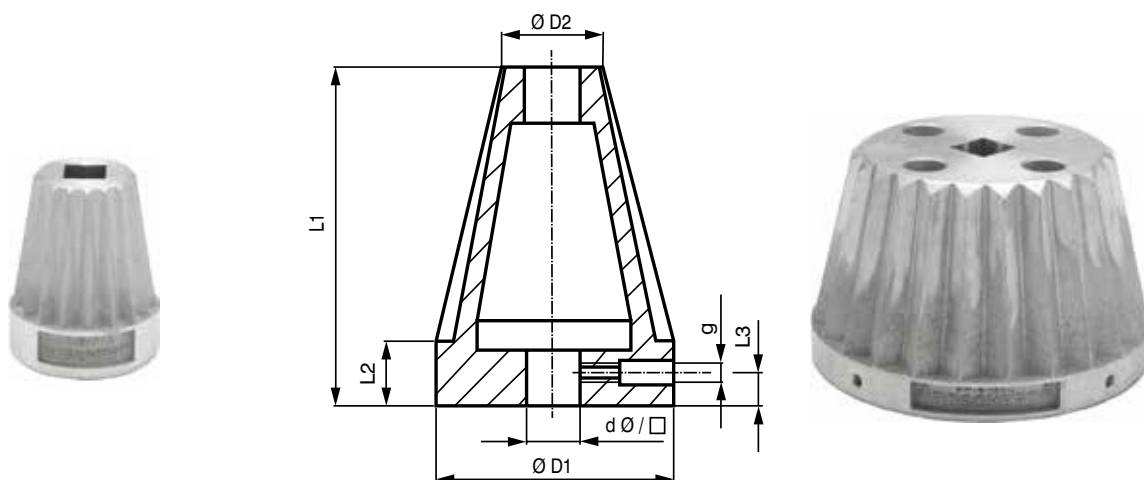


		Model				
		I	II	III	IV	
					□ 30	□ 40
Tube diameters Ø		80 - 95	70 - 80	70 - 80	55 - 120	70 - 120
d	Ø	30 - 50	30 - 50	30 - 50	30 - 35	>35 - 50
	□	30, 40	30, 40	30 ,40	30	40
D1		110	90	95	130	
D2		75	65	65	50	65
L1		145	95	145	95	83
L2		40	35	35	40	
L3		20	18	18	20	
g		M10				

		Model		
		V	VI	VII
Tube diameters Ø		50 - 70	145 - 160	125 - 150
d	Ø	30 - 40	30 - 80	30 - 60
	□	30	30, 40, 50	30, 40, 50
D1		90	170	160
D2		45	140	120
L1		145	150	145
L2		35	35	35
L3		18	18	18
g		M10		

Special designs on request

Aluminium cones model VIII - XIII

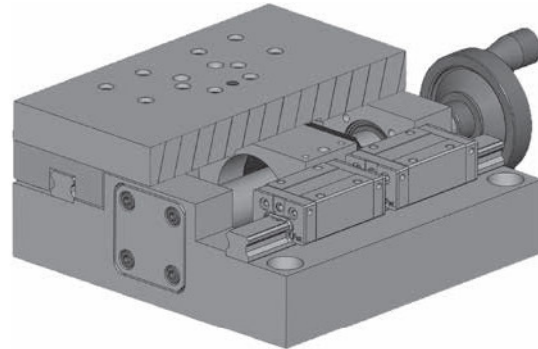
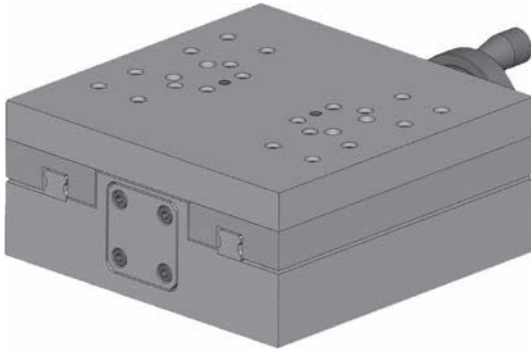


		Model			
		VIII		IX	X
		□ 30	□ 40		
Tube Diameters Ø		60 - 120	68 - 120	120 - 180	225 - 280
d	Ø	30 - 40	>40 - 50	30 - 70	30 - 80
	□	30	40	40, 50	40, 50
D1		130		190	290
D2		55	63	115	220
L1		185	168	185	185
L2		35			
L3		18			
g		M10			

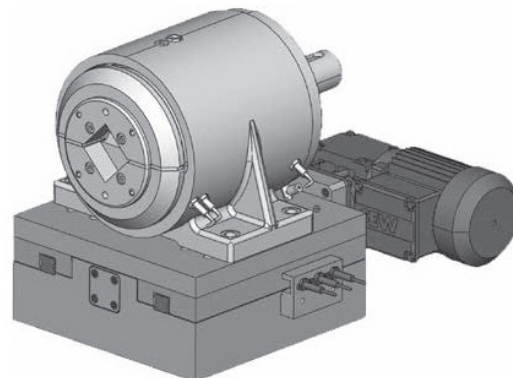
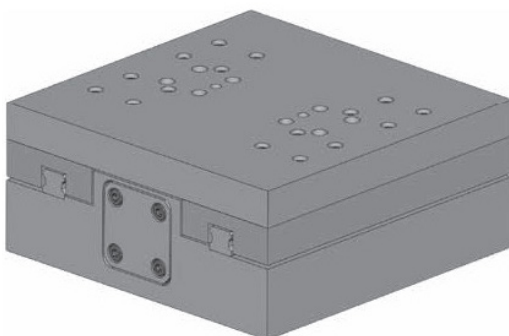
		Model		
		XI	XII	XIII
Tube diameters Ø		275 - 330	75 - 180	165 - 215
d	Ø	40 - 100	30 - 50	30 - 60
	□	40, 50	30, 40	30, 40
D1		340	190	225
D2		270	70	160
L1		185	155	185
L2		35		
L3		18		
g		M10		

Special designs on request

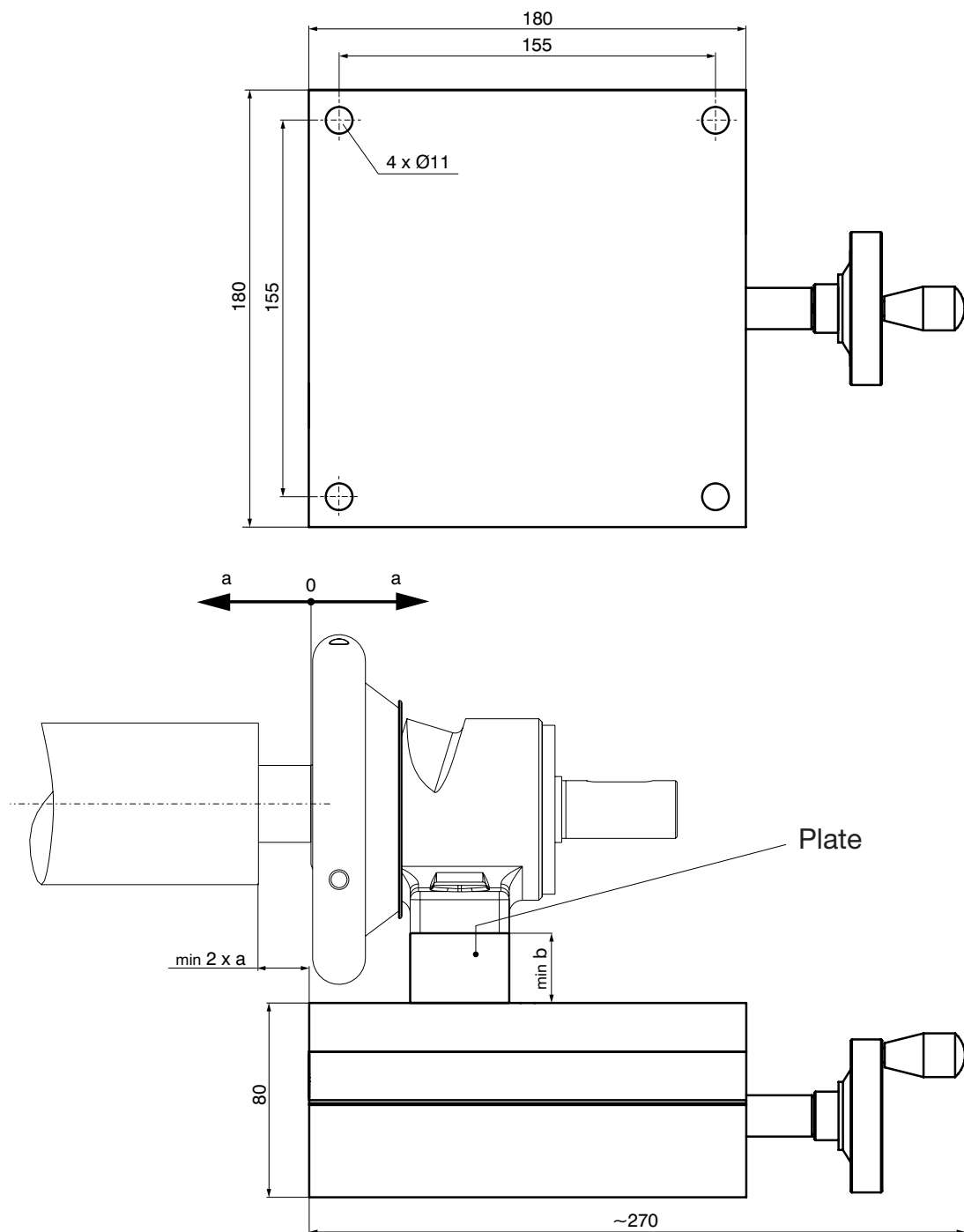
9.10 Overview Slide axial / radial



Slide								
	Axial						Radial	
	small			large			small	large
	active	with motorized adjustment	passive	active	with motorized adjustment	passive	active	active
22-30	x	x	x				x	
30-40	x	x	x				x	
40-50				x	x	x		x
50-80				x	x	x		x
Sliding-Chuck								
22-30							x	
30-40							x	
40-50								x
Series A								
A40	x	x	x				x	
A50				x	x	x		x
A80				x	x	x		x
Series P								
P40				x	x	x		x
P50				x	x	x		x

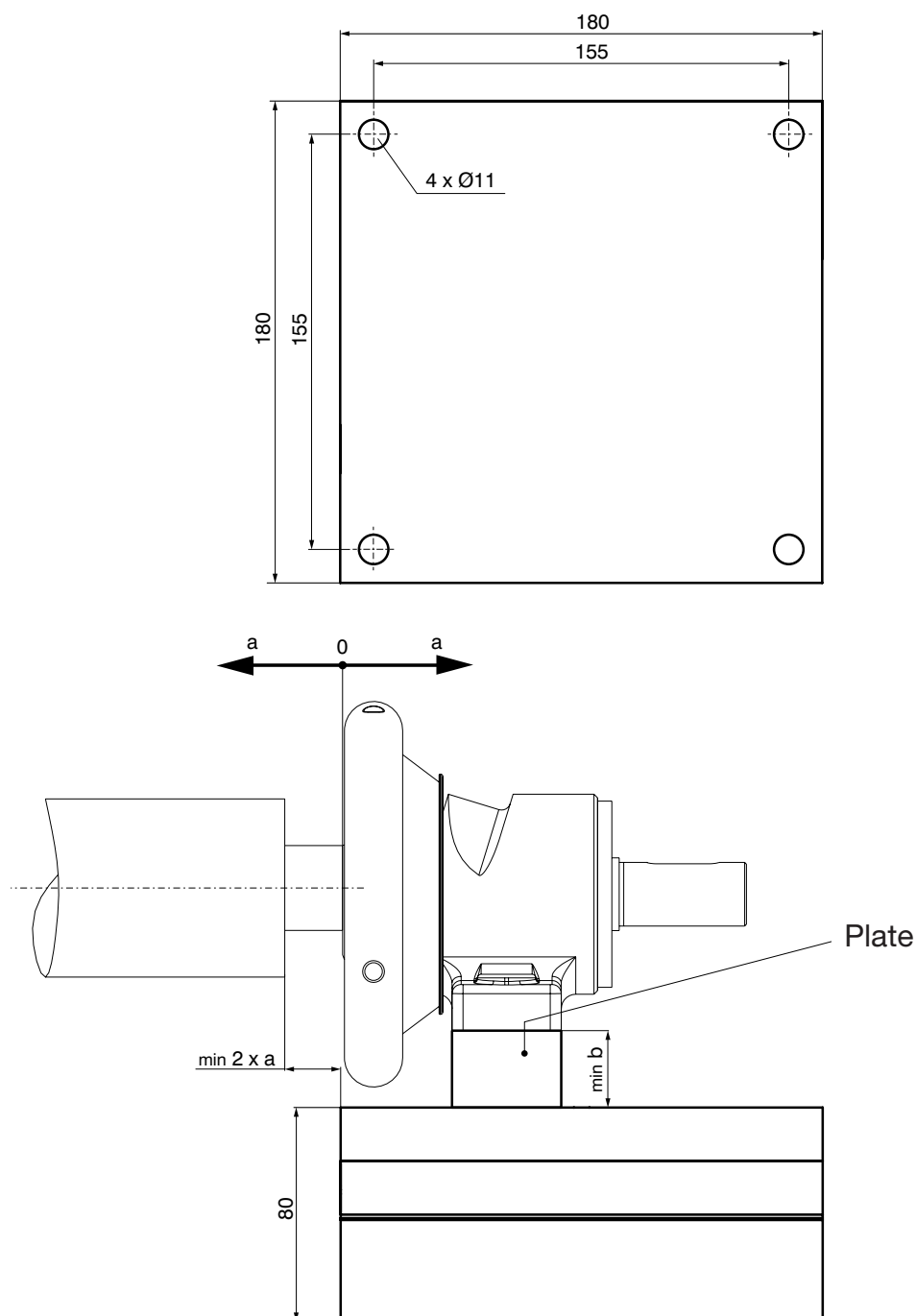


9.20 Axial Slide small active



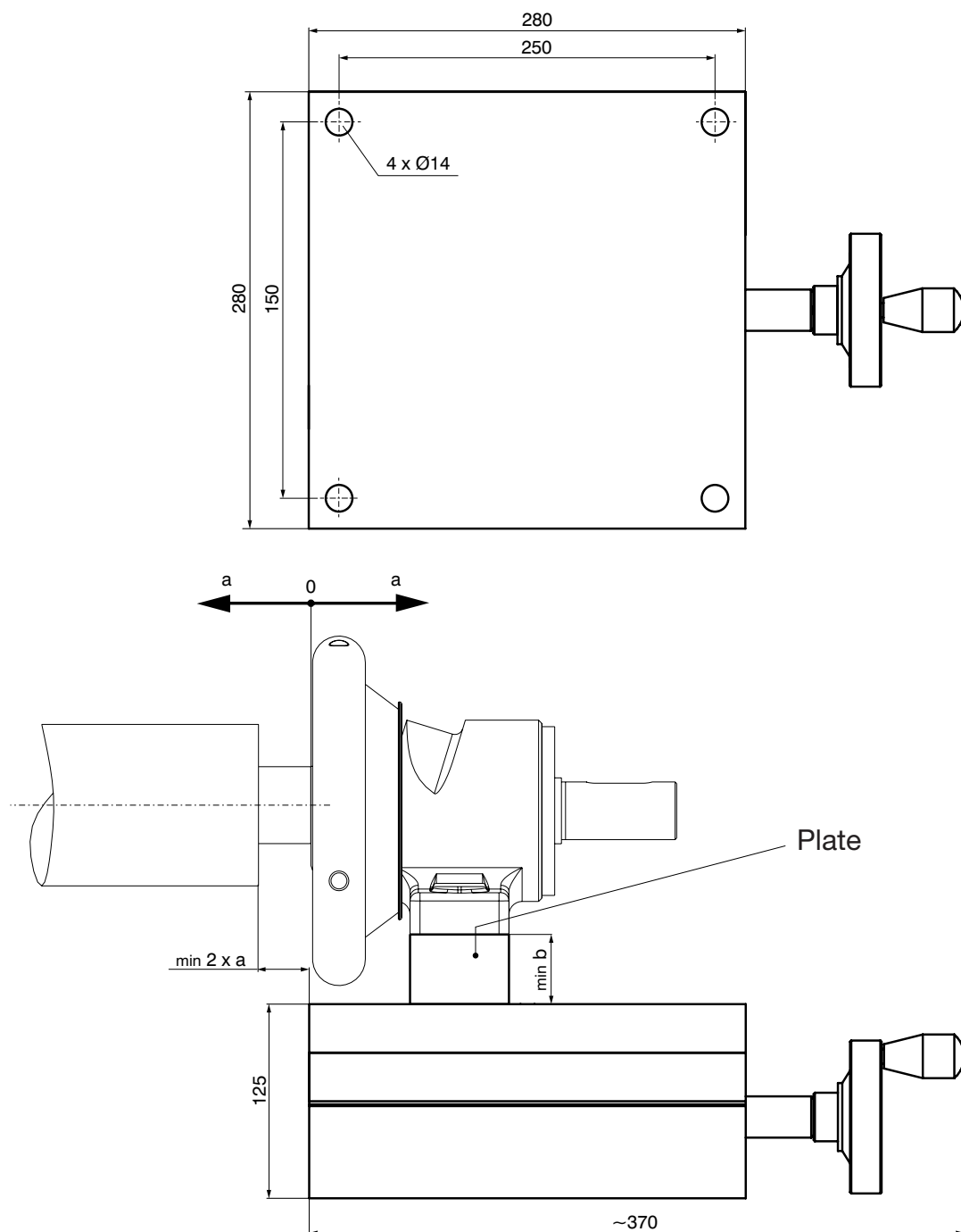
	a	b
22-30	25	50
30-40	25	50
A40	25	50

Axial slide small passive



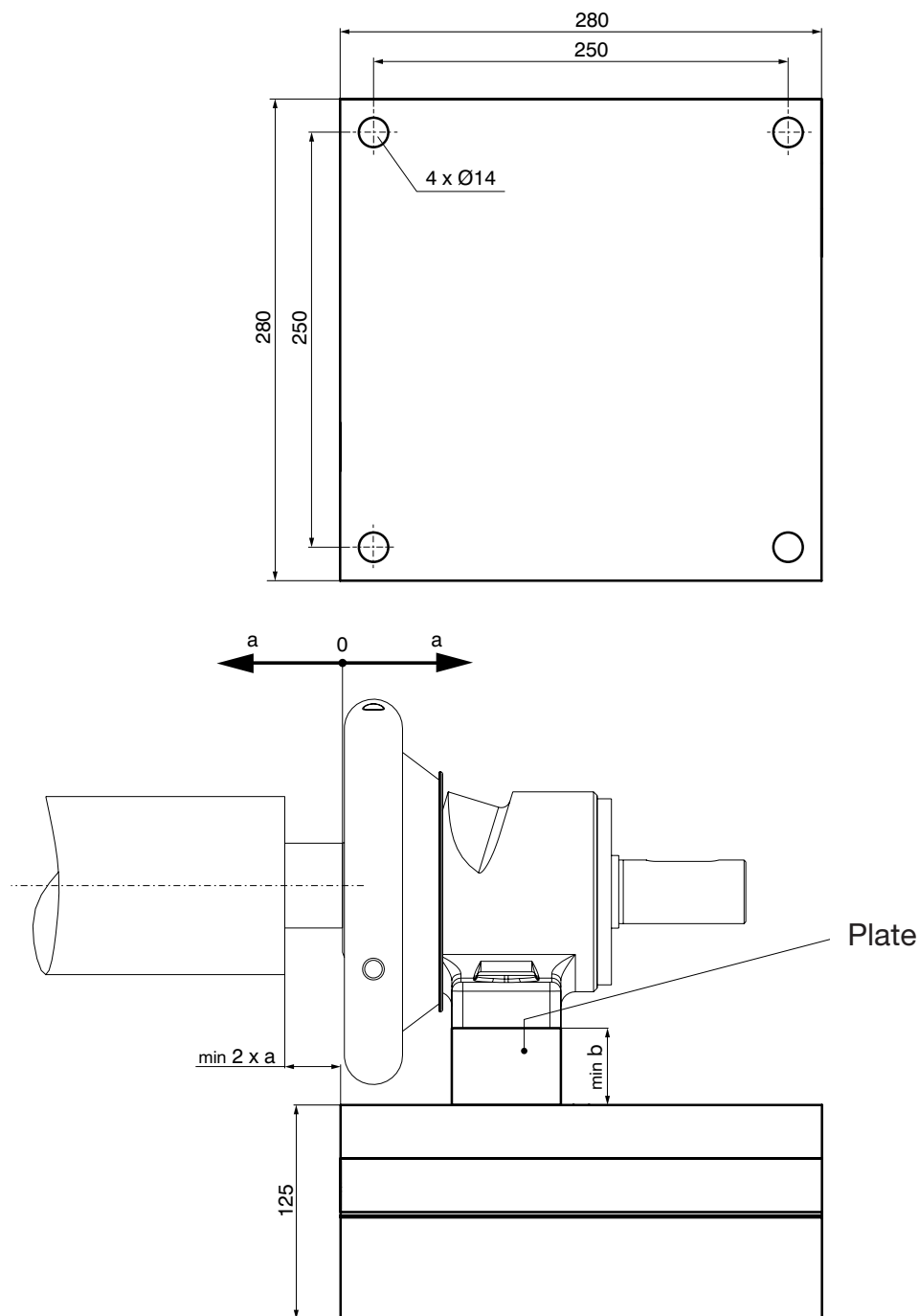
	a	b
22-30	25	50
30-40	25	50
A40	25	50

Axial Slide big active



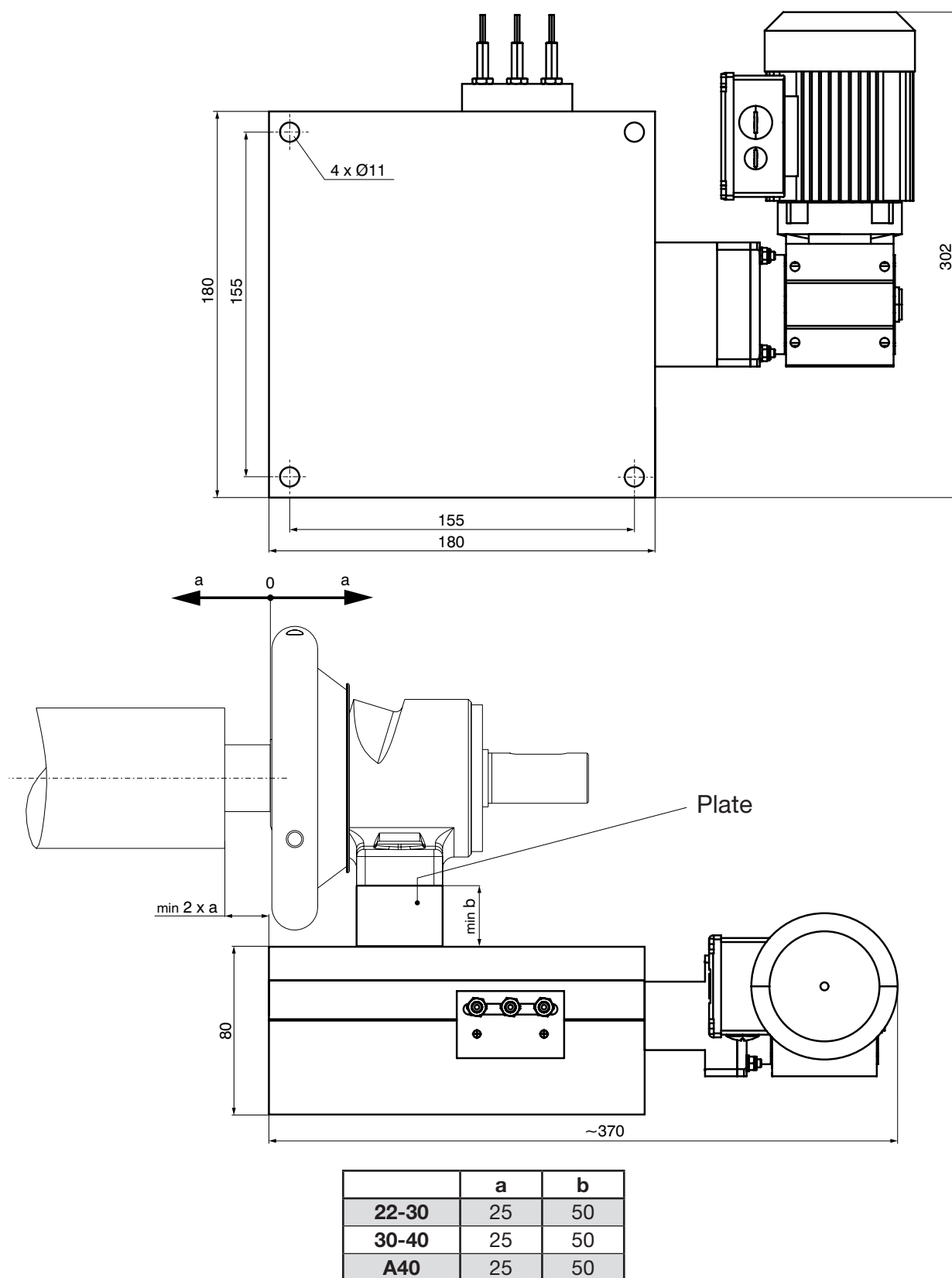
	a	b
40-50	25	60
50-80	25	80
A50	25	60
A80	25	80
P40	25	
P50	25	

Axial Slide big passive

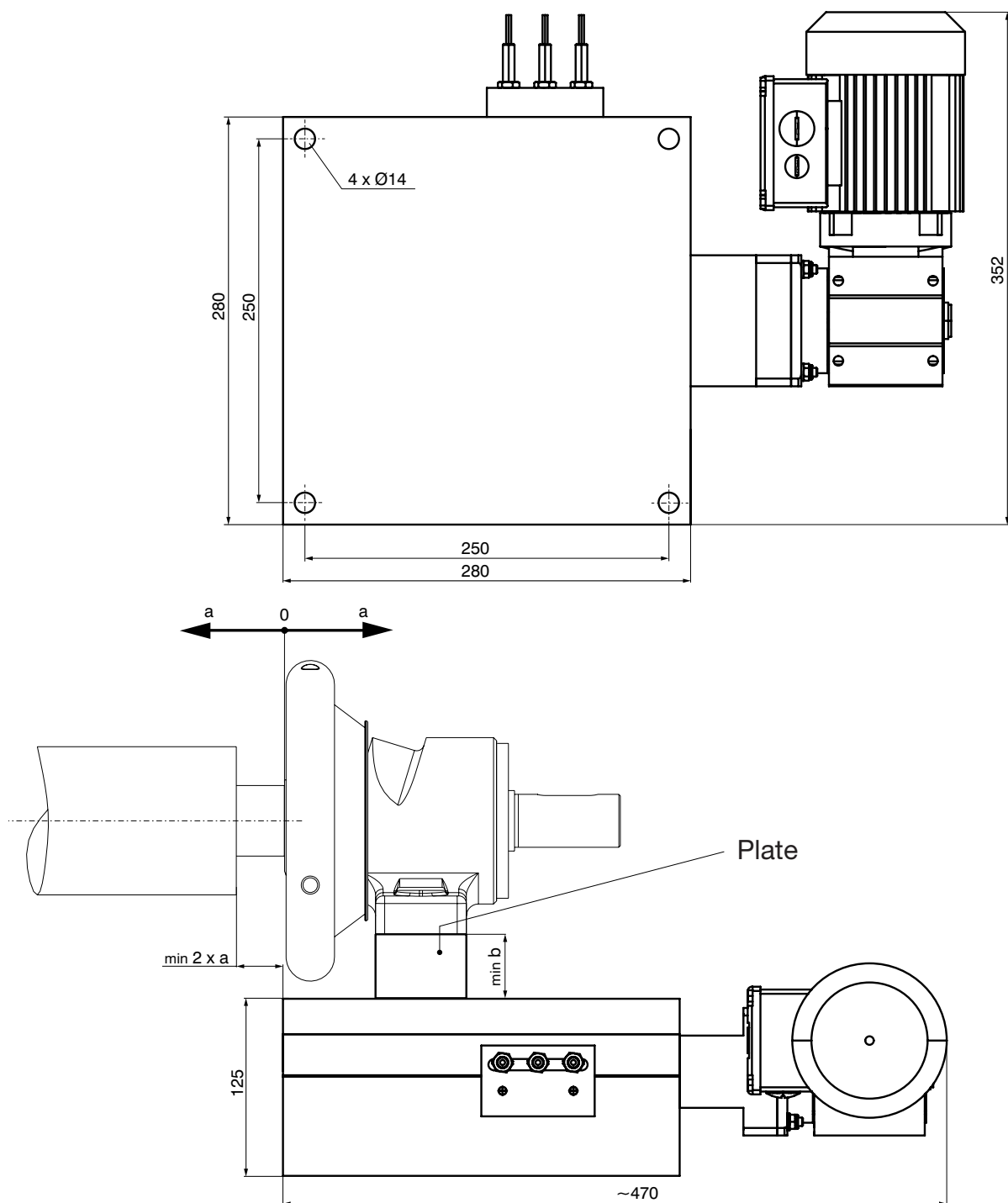


	a	b
40-50	25	60
50-80	25	80
A50	25	60
A80	25	80
P40	25	
P50	25	

Axial Slide small with motor adjustment

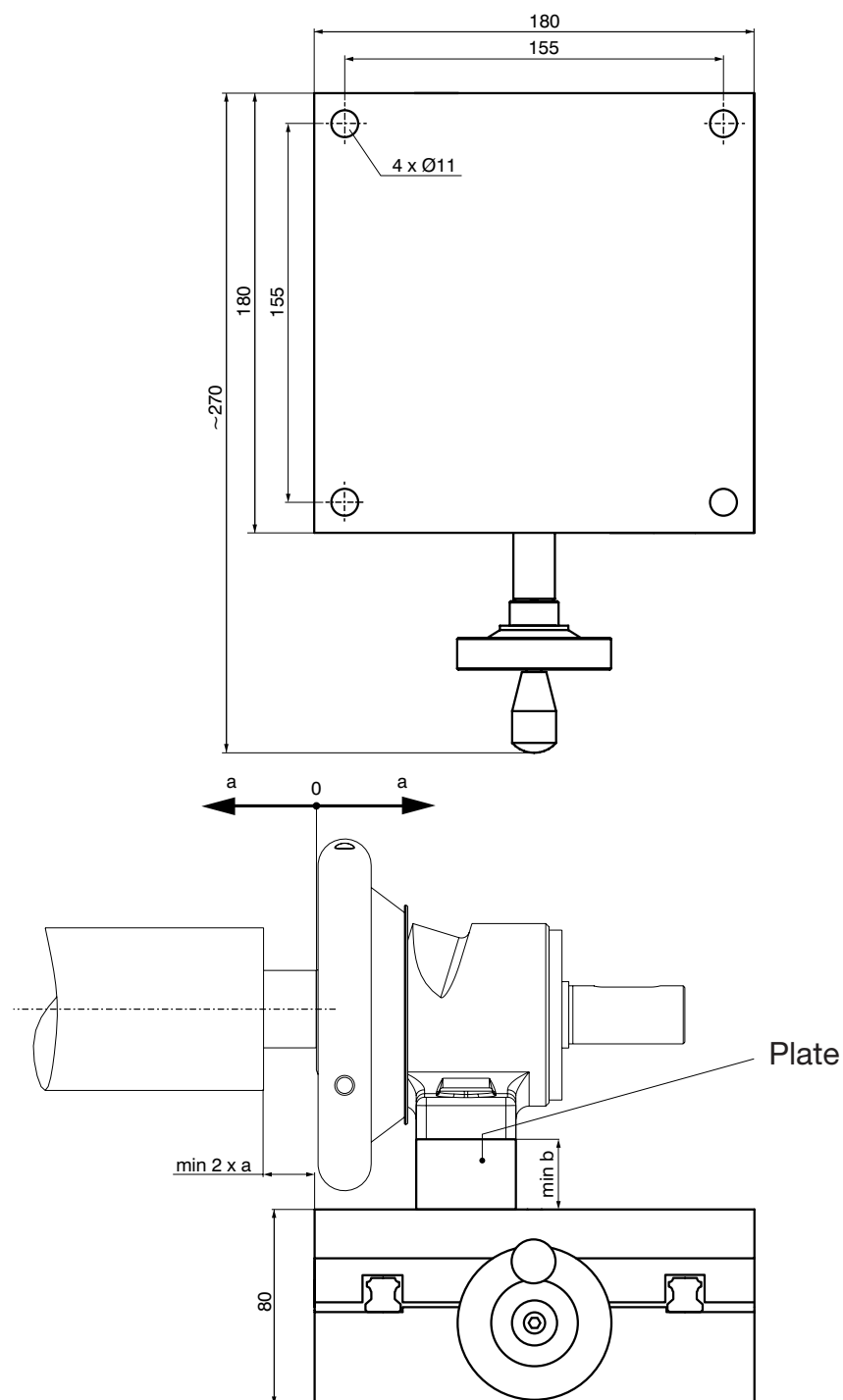


Axial Slide big with motor adjustment



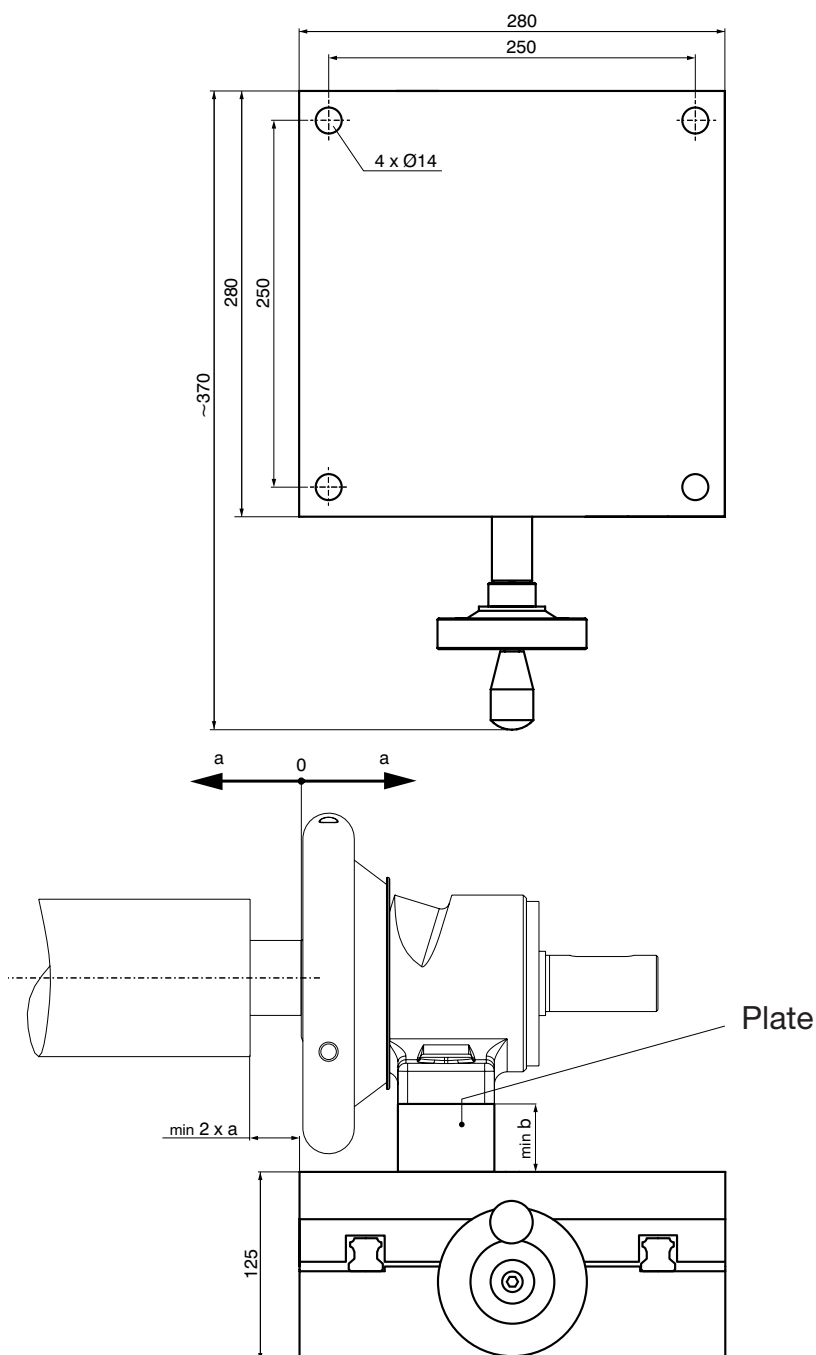
	a	b
40-50	25	60
50-80	25	80
A50	25	60
A80	25	80
P40	25	60
P50	25	60

9.60 Radial Slide small active

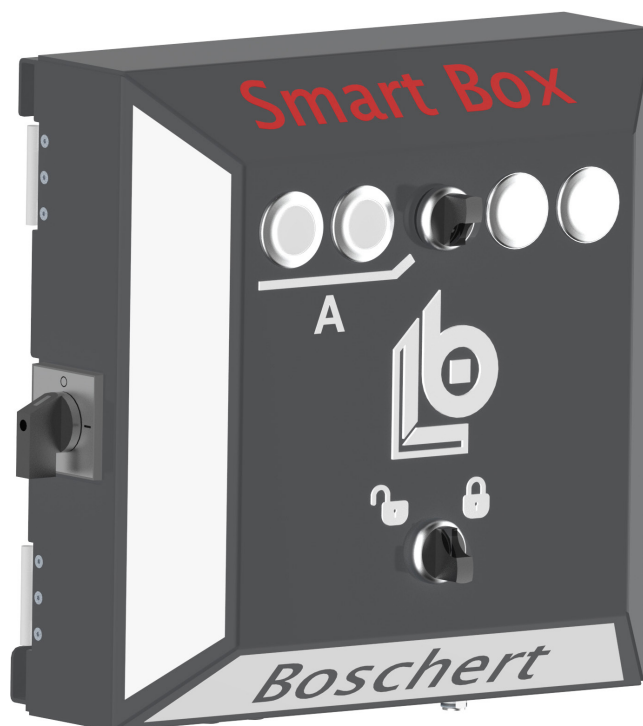


	a	b
22-30	25	50
30-40	25	50
A40	5	50
Sliding-chuck		
22-30	25	50
30-40	25	50

Radial Slide big active



	a	b
40-50	25	60
50-80	25	80
A50	25	60
A80	25	80
P40	25	60
P50	25	80
Sliding-chuck		
40-50	25	60



Smart Box:
Standard solution for one roll

Description:

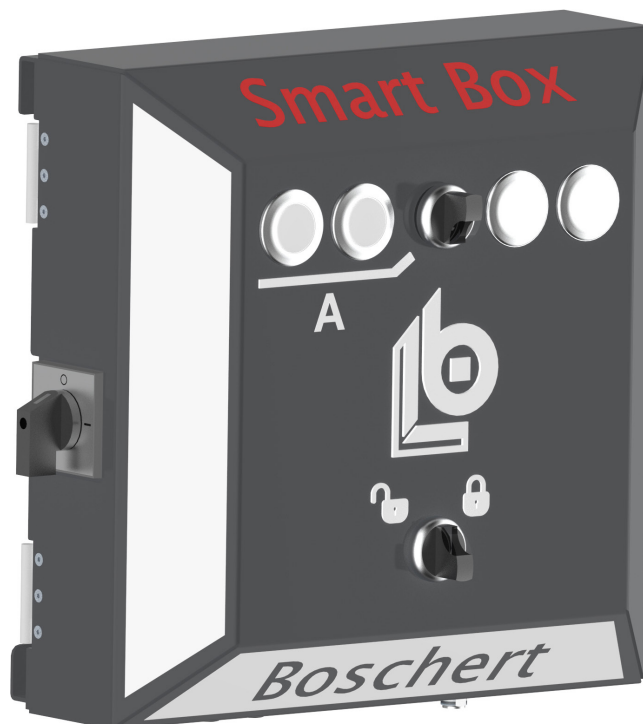
The latest development of controls is the Boschert Smart Box. This can be used for the completely selfsufficient operation of pneumatic operated chucks. With integrated sensor monitoring and controlled light signals, a winding station can be automated without intervention in a machine control system. Also there is a Smart Box Twin where you can operate 2 winding stations from 1 control.

Technical data	
Control box (W x H x D):	325 x 300 x 120 mm
Energie:	100 - 240 V AC
Compressed air:	max. 7 bar (105 psi) filtered 0.3 µm
Output pressure:	
Output signals:	2 (potential free)
Enclosure:	

Options:

Smart Box Twin: The solution for two rolls

Further solutions on request.



Smart Box:
Standard solution for one roll

Description:

The latest development of controls is the Boschert Smart Box. This can be used for the completely selfsufficient operation of pneumatic operated chucks. With integrated sensor monitoring and controlled light signals, a winding station can be automated without intervention in a machine control system. Also there is a Smart Box Twin where you can operate 2 winding stations from 1 control.

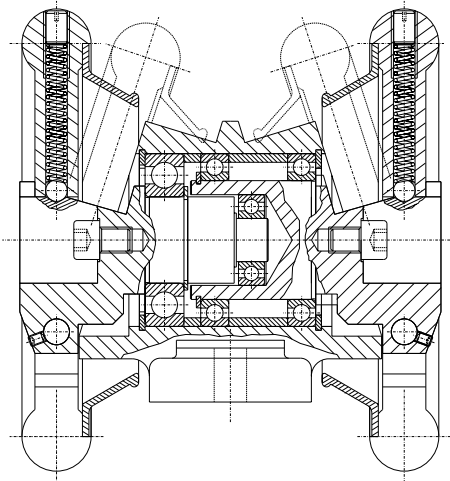
Technical data	
Control box (W x H x D):	325 x 300 x 120 mm
Energie:	100 - 240 V AC
Compressed air:	max. 7 bar (105 psi) filtered 0.3 µm
Output pressure:	
Output signals:	2 (potential free)
Enclosure:	

Options:

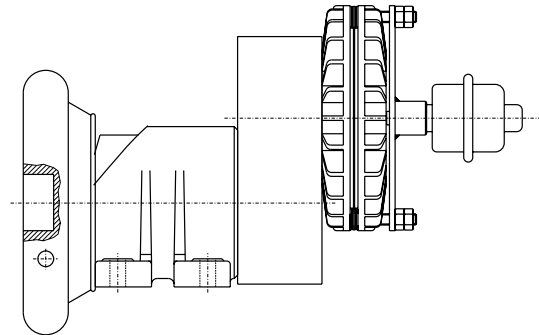
Smart Box Twin: The solution for two rolls

Further solutions on request.

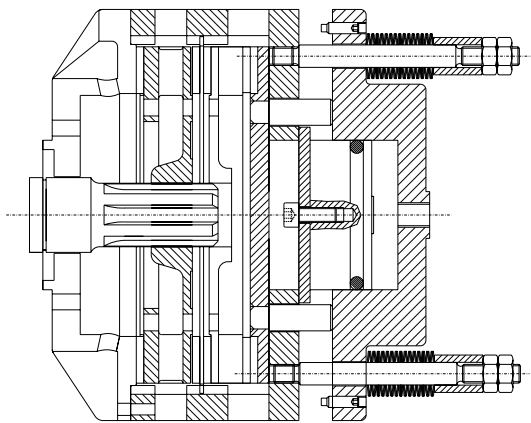
10.00 Overview special solutions



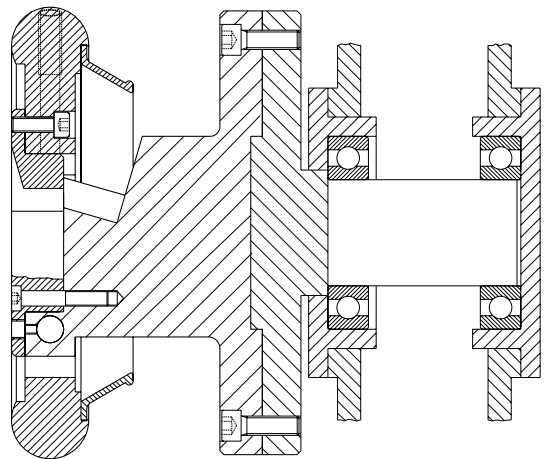
Twin STO Chucks
[Info 10.01](#)



Chuck with ESB brake and
intermediate gearbox
[Info 10.02](#)

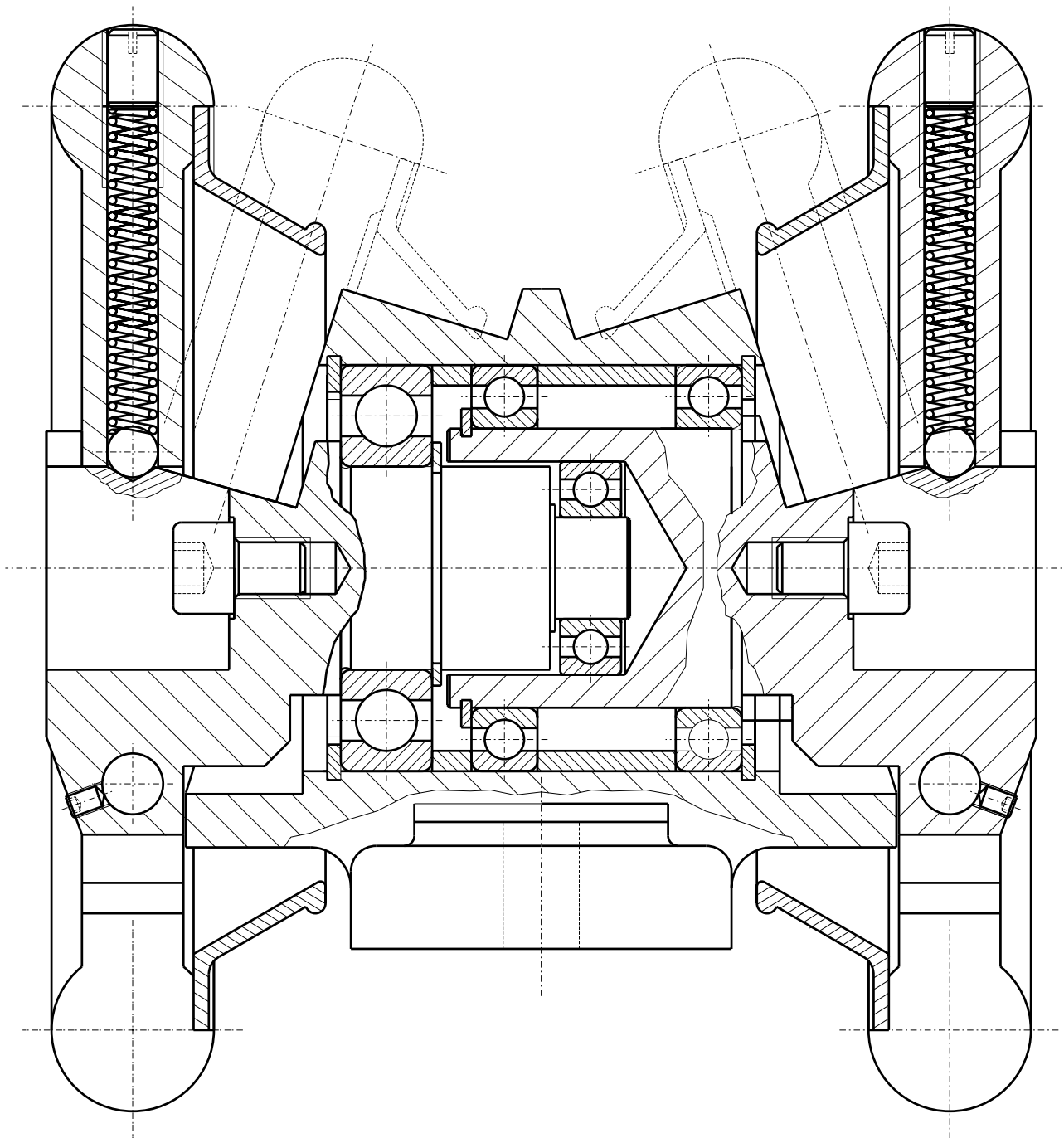


Spring-loaded brake
[Info 10.03](#)



Flange head
[Info 10.04](#)

10.01 Twin STO Chucks

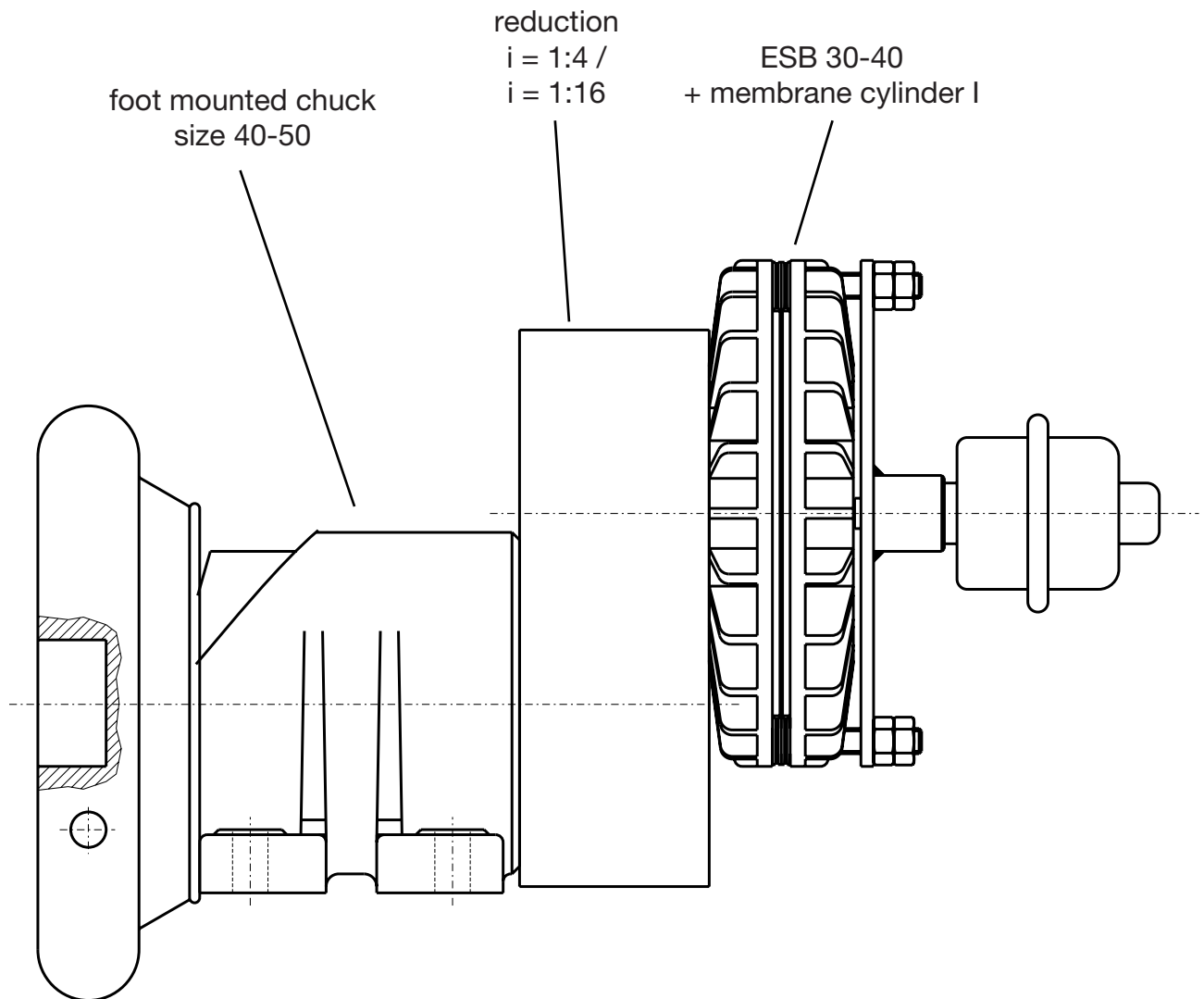


Handwheels turn independently of each other

Problem:

Two winding shafts have to work in a very short distance. The winding shafts cannot be connected with each other, they have to work independently.

Chuck with ESB brake and intermediate gearbox



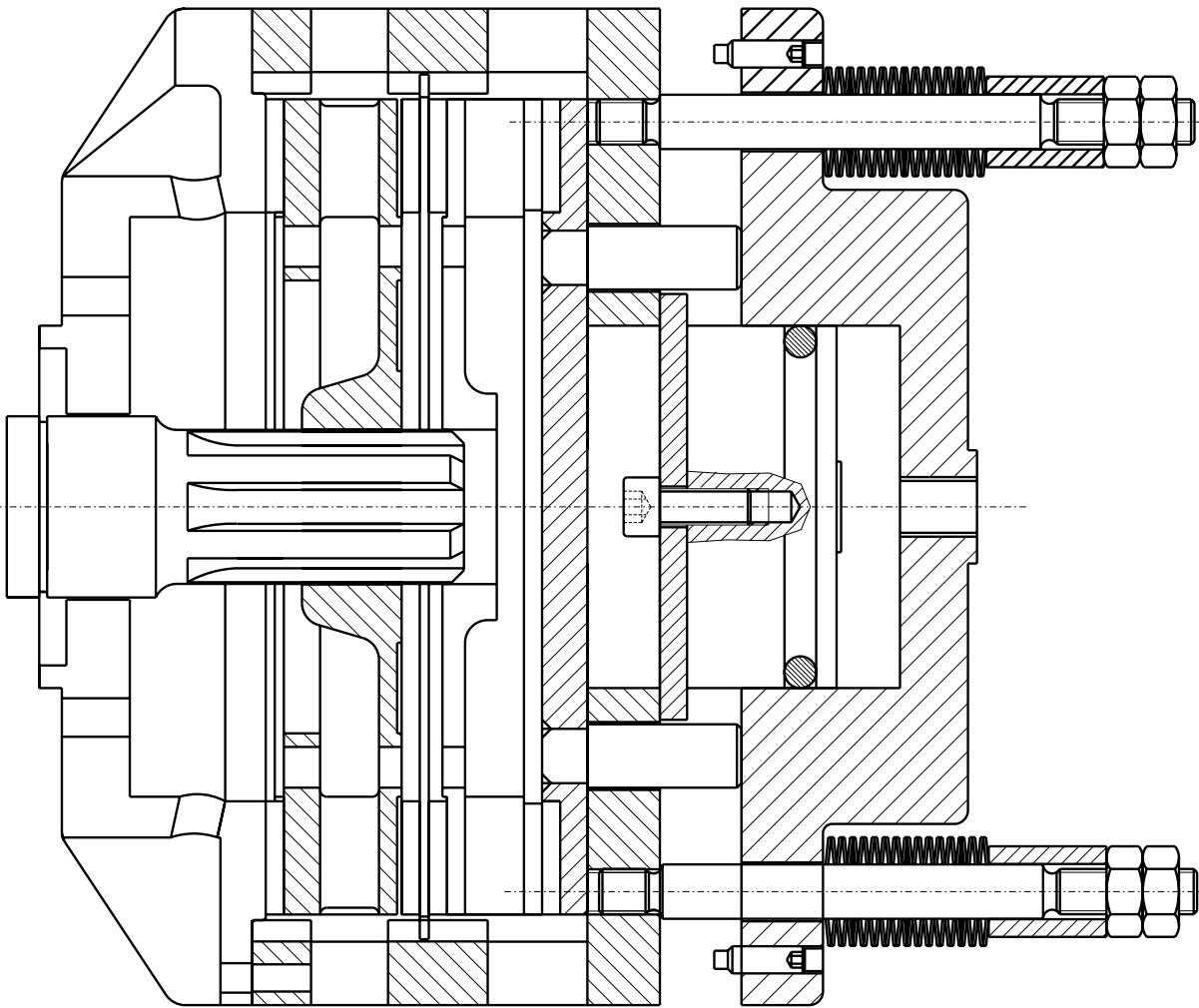
Reduction brake for extremely low speed

Problem:

Unwinding with a speed less than 2 rpm which has to be braked. The control has to be very sensitive and without slip-stick and squeezing noises.

Solution:

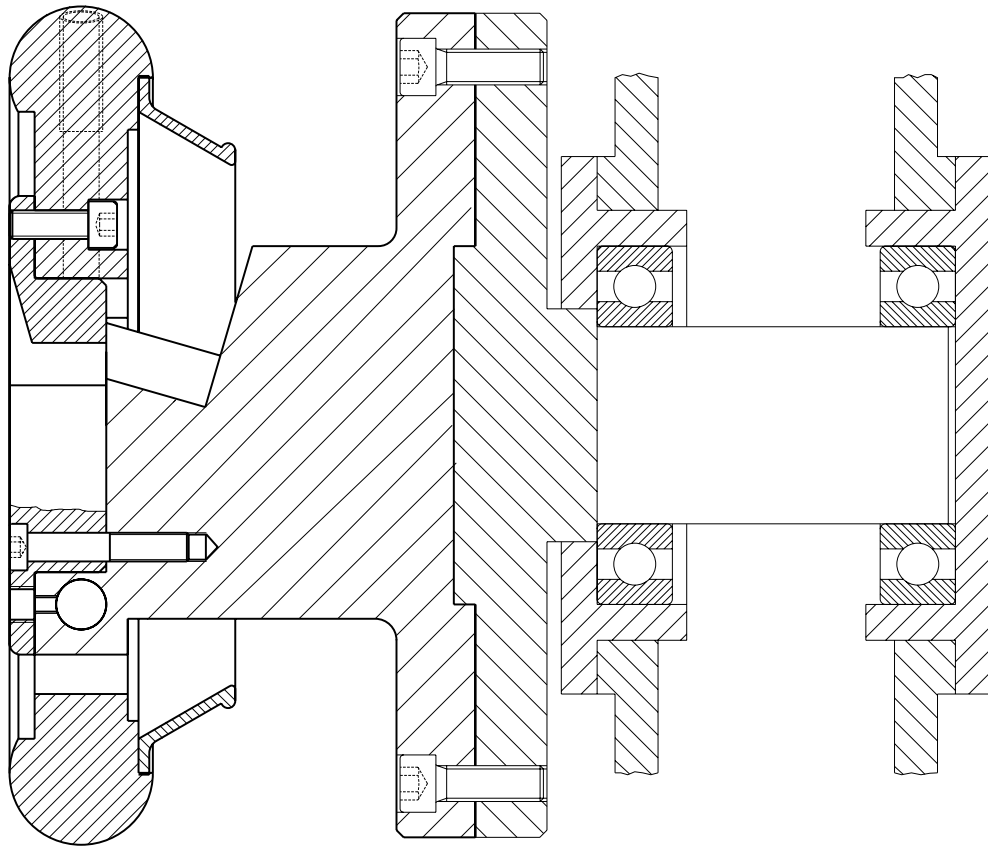
By use of an intermediate gear the speed on the brake disc will be increased. Because of the higher speed there are no squeezing noises and you have better control of the brake



Security-brake

Problem:

This Security-brake has to bring the unit to a standstill in an emergency situation or during a drop-in-pressure and opens when air-pressure occurs.

**Problem:**

Modification from existing turret winders or winding support to Boschert chucks.

Solution:

You can keep existing fixing surfaces. Boschert chucks are mounted with adapter or special shafts directly into the winding unit.

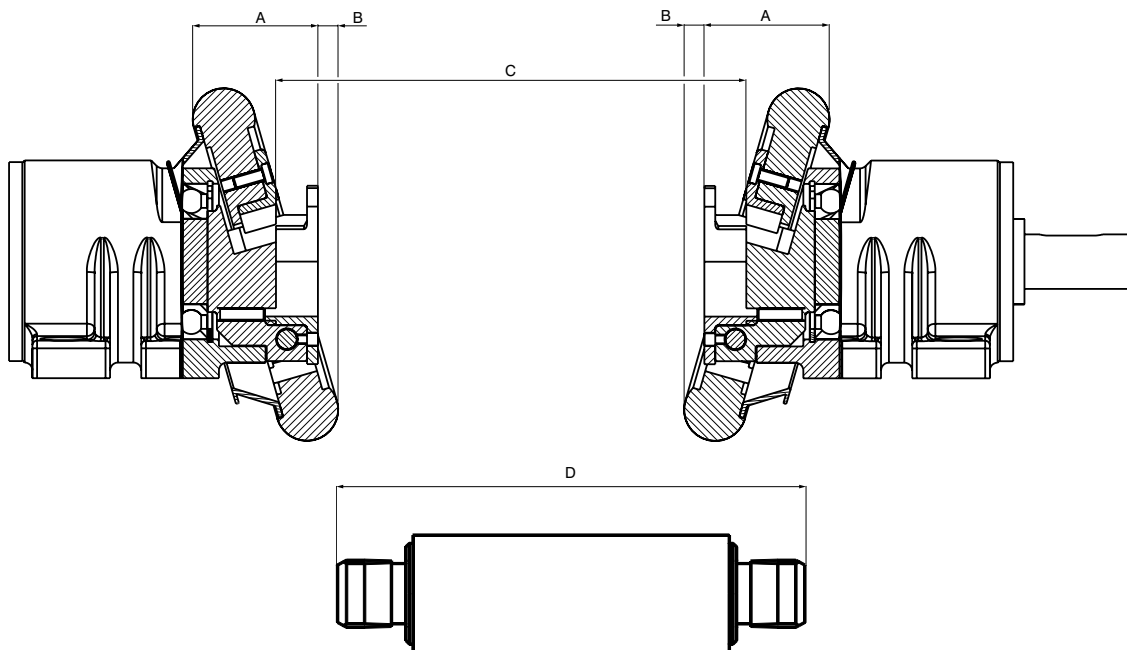
11.00 Winding Beam Dimensions Length Tolerances

Boschert regulations:

We emphasize that the close tolerances and exact manufacture of our new chucks make it necessary to **machine the winding shafts referring to the drawings and dimensions above.**

Before running the chucks for the first time, **please check if the handwheels close easily to ensure that the winding bar fits correctly.**

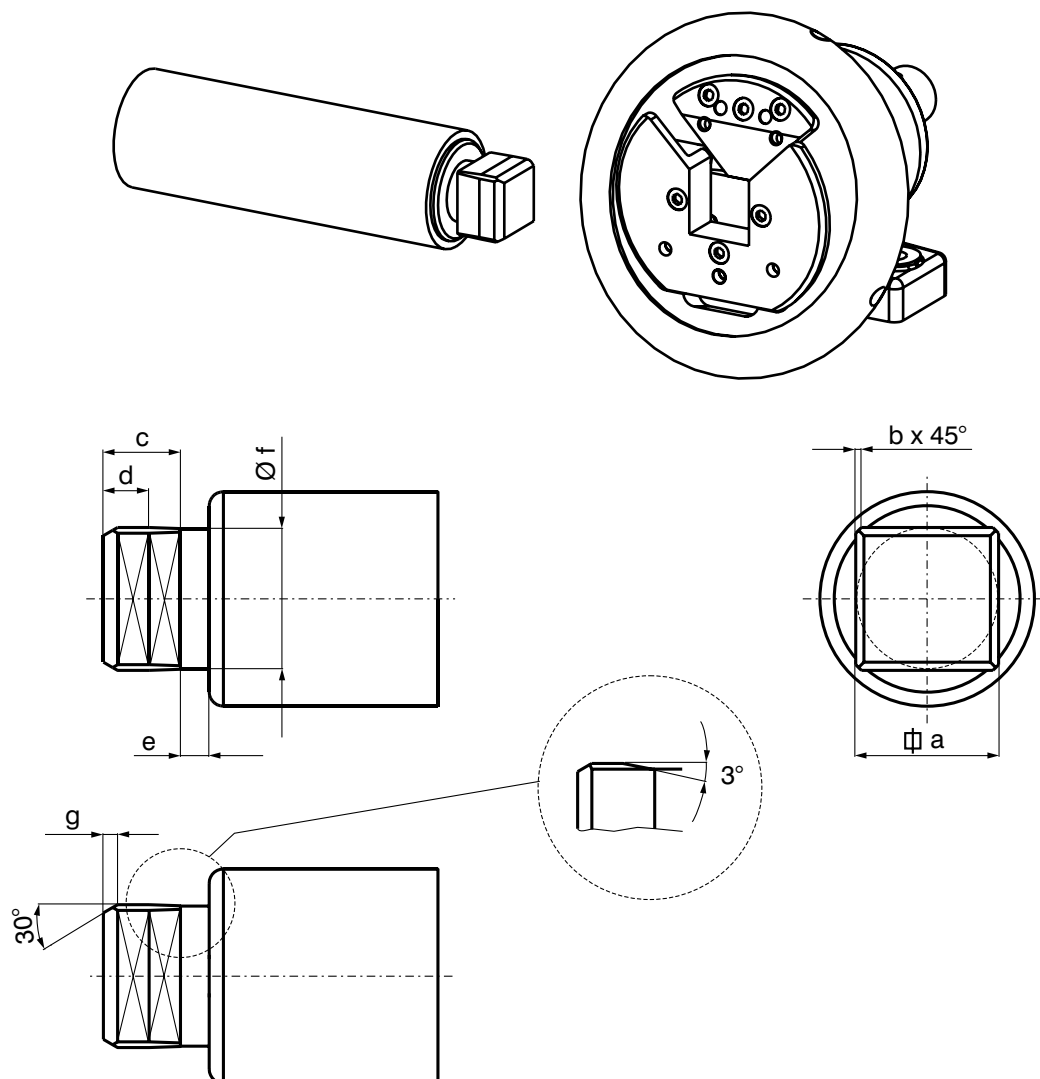
Only by following these regulations,
the functions of the Safety Chucks is ensured.



	a	b	$x=(C-D)$	$y=(C-D)$
Mini	38	8	0.5	1
19-25	54	9	0.5	1
22-30	61	8	0.5	1
30-40	73	13	0.5	1
40-50	81	13	0.5	1
50-80	106	16	0.5	1
80-120	145	18	0.5	1
120-180	175	24	1	2
170-230	230	8	1	2

x = min. clearance
y = max. clearance

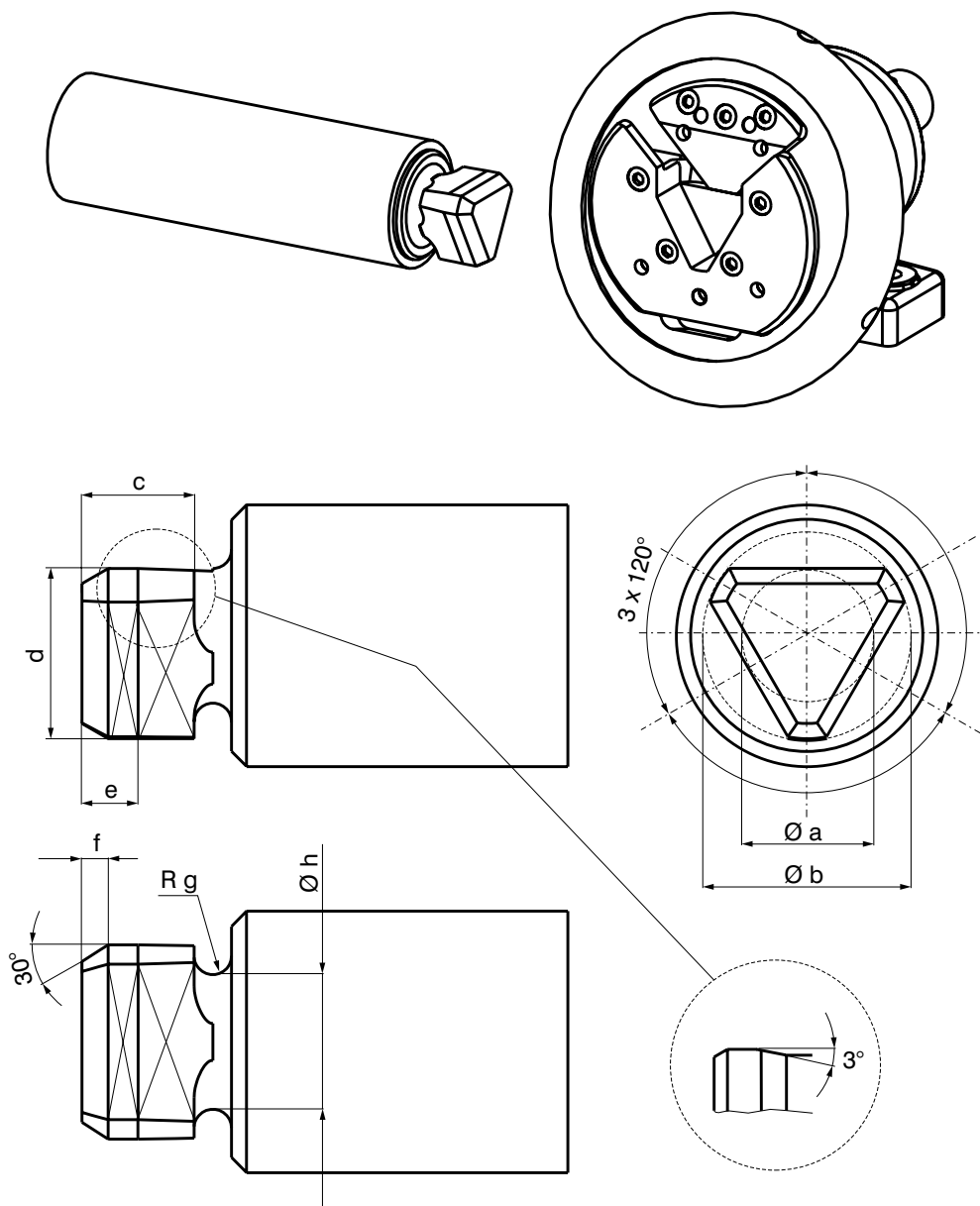
11.10 Winding Beam Dimensions Journal C / VT1 / VT2



	C / VT1/VT2						
	a f7	b	c	d	e	f	g ⁺¹ ₀
Mini	14 - 20	1	11.5 -0.2	8	8	a-1 -0.1/-0.2	3
19-25	19 - 25	1	18.5 -0.2	10	8	a-1 -0.1/-0.2	3
22-30	22 - 30	1	21 -0.2	11	8	a-1 -0.1/-0.2	4
30-40	30 - 40	1.5	24 -0.2	12.5	10	a-1 -0.1/-0.2	5
40-50	40 - 50	2	26 -0.2	13.5	10	a-1 -0.1/-0.2	5
50-80	50 - 80	3	34 -0.3	17.5	17	a-1 -0.1/-0.2	6
80-120	80 - 120	4	54 -0.5	27.5	22	a-1 -0.1/-0.2	16
120-180	120 - 180	5	64 -0.5	35	25	a-1 -0.1/-0.2	20
170-230	170 - 230	6	89 -0.5	48	25	a-1 -0.1/-0.2	32

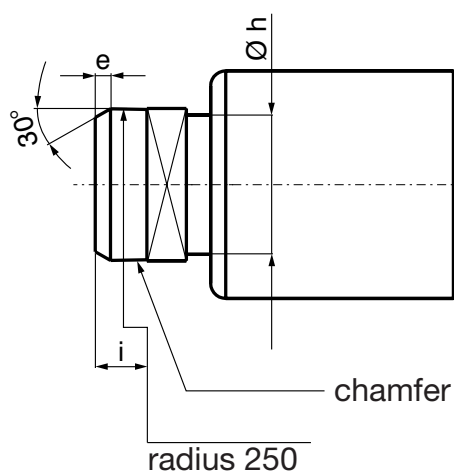
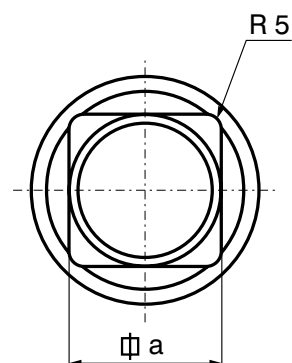
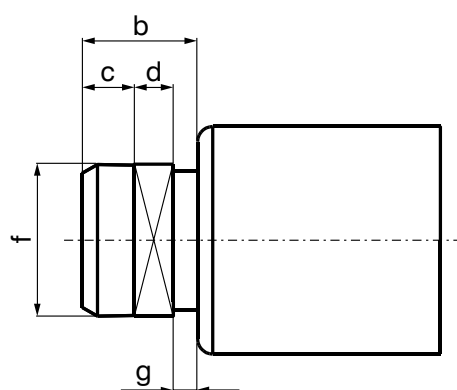
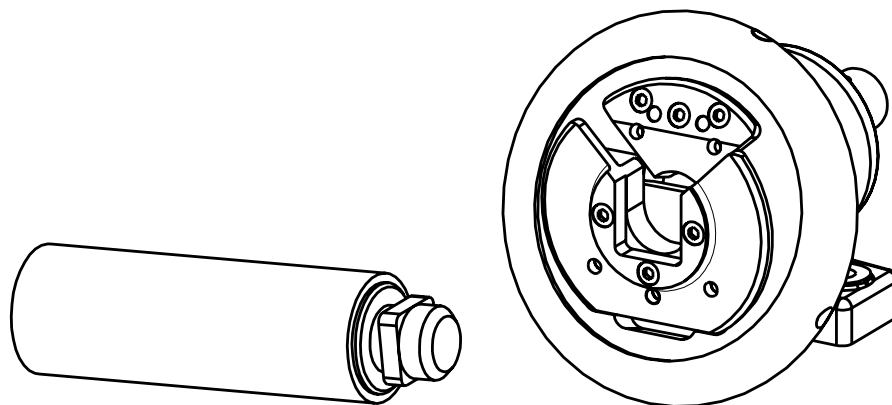
VT2: 50-80 a > 60 mm = „b“ = 4

Winding Beam Dimensions Journal VT6



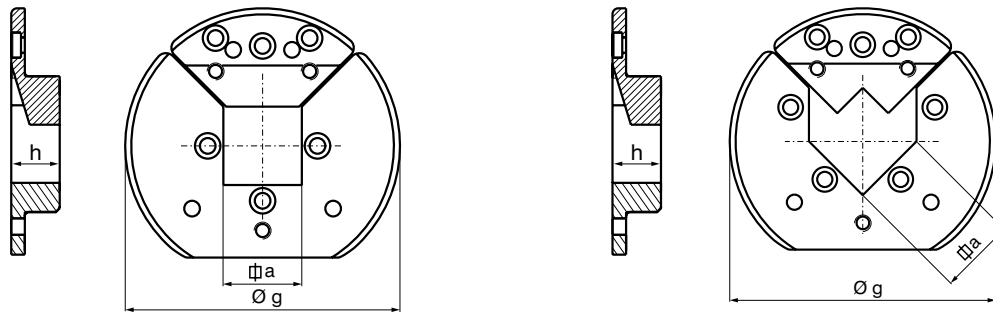
	VT6							
	a f7	b f7	c	d f7	e	f ⁺¹ ₀	g	h
Mini	20	27	11.5	23.5	7.5	3	4	20 -0.1/-0.2
19-25	20	27	18.5	23.5	12	3	4	20 -0.1/-0.2
22-30	30	44	21.5 -0.2	37	14	5	4	30 -0.1/-0.2
30-40	36	54	24 -0.2	45	15	7	5	36 -0.1/-0.2
40-50	46	69	26 -0.2	57.5	16	7	5	46 -0.1/-0.2
50-80	67	104	34 -0.3	85.5	20	7	8.5	67 -0.2/-0.4
80-120	96	148	54 -0.5	122	30	18	11	96 -0.2/-0.4

Winding Beam Dimensions Journal VT7



	VT7								
	a	b	c	d	e ⁺¹ ₀	Ø f h7	g	Ø h -0,2	i
22-30	30 +0.1/+0.3	32.5	14 -0.2/-0.3	10.5 -0.1	4	30	8 +0.1	26	6
30-40	40 +0.1/+0.3	37	18 -0.2/-0.3	11 -0.1	5	40	8 +0.1	36	6
40-50	50 +0.1/+0.3	38	17 -0.2/-0.3	13 -0.1	5	50	8 +0.1	46	6
50-80	50 +0.1/+0.3	55	23 -0.2/-0.3	17 -0.1	6	50	15 +0.1	45	9
80-120	80 +0.1/+0.3	55	23 -0.2/-0.3	17 -0.1	6	80	15 +0.1	74	9

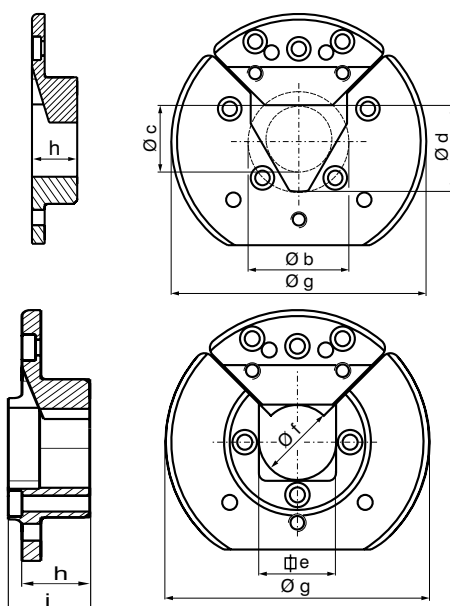
11.20 Dimension Sheet VT-inserts



VT 1 / VT 2

	dimension a (mm) H8										g	h
22-30	25	30									104	22
30-40		30	32	35	40						140	25
40-50					40	45	50				144	27
50-80							50	60	80		195	35
80-120								80	100	120	230	55
	dimension a (inch/mm) H8										g	h
22-30	1"	1 1/8"	1 1/4"									
	25.4	28.57	31.75								104	22
30-40			1 1/4"	1 1/2"							140	25
			31.75	38.1							144	27
40-50			1 1/4"	1 1/2"		1 3/4"	2"				195	35
			31.75	38.1		44.45	50.8				230	55
50-80							2"	2 1/2"	3"			
							50.8	63.5	76.2			
80-120									4"			
									101.6			

VT2: 50-80 a = max. 63,5



VT 6

	dimensions (mm)				
	b	c	d	g	h
22-30	45	30	37,5	104	22
30-40	55	36	45,5	140	25
40-50	70	46	58	144	24
50-80	105	67	86	195	35
80-120	150	96	123	230	55

VT 7

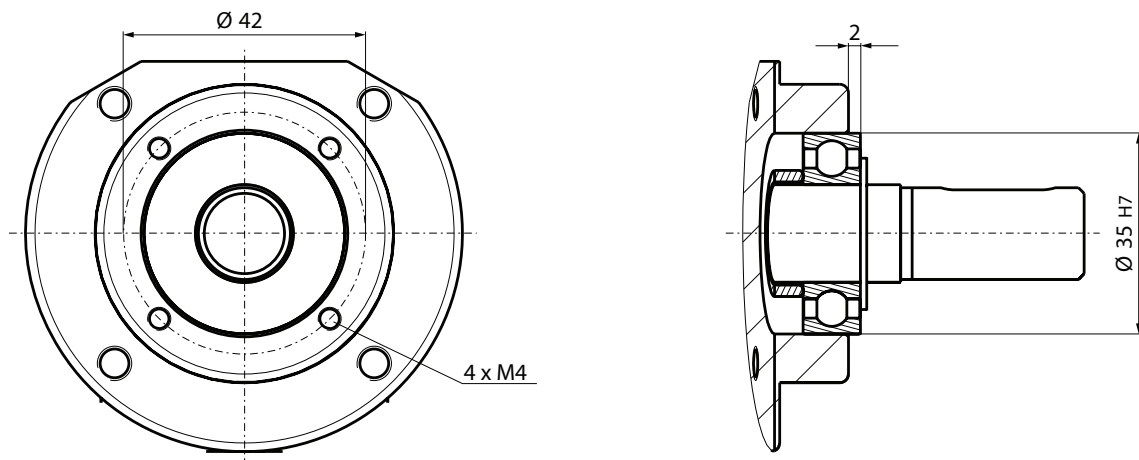
	dimensions (mm)				
	e	f F7	g	h	i
22-30	31	30	104	22	25
30-40	41	40	140	25	30
40-50	51	50	144	27	31
50-80	51	50	195.5	35	41
80-120	81	80	195.5	35	41

Special version on customer request

Generally Safety Chucks have to be closed by hand always.

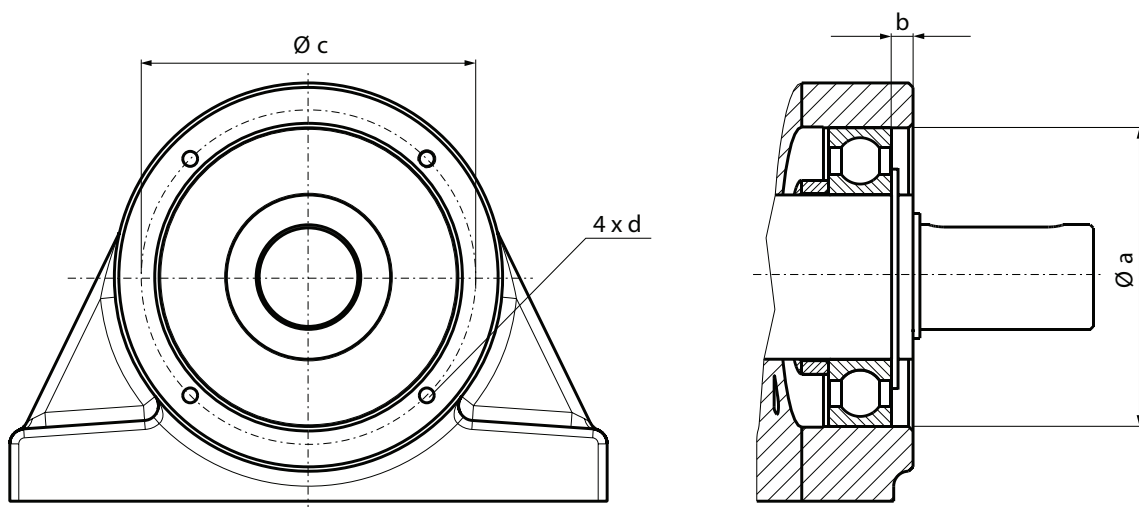
11.30 Connecting Dimensions Mini - 40-50

Connecting dimensions Mini



On using brakes and clutches bolt hole circle is Ø 42 x 4 x M5

Connecting dimensions 19-25 / 22-30 / 30-40 / 40-50



	Ø a	b	Ø c	d
19-25	47	3	56	M6
22-30	62	2	73.5	M6
30-40	80	5	93	M6
40-50	100	7	112	M6

On using brakes and clutches d = M8

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