



**BOSCHERT**

*Das Original*



**News**

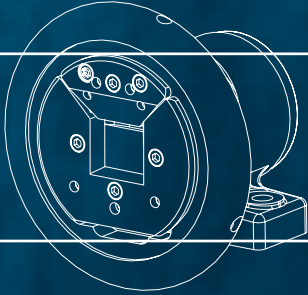


# Content



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Sliding-Chucks

Pneumatic Chucks

Safety & Assembly  
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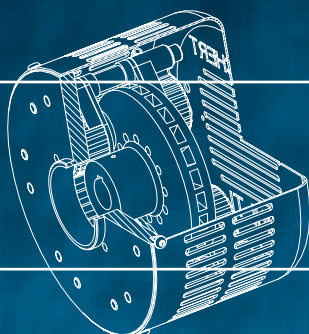
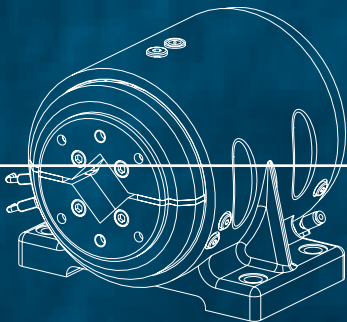
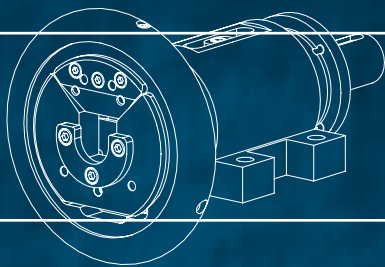
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Special

Measure & Tolerance



## Contact



**Helmut Turowski**

Leiter Verkauf  
Sales manager

Tel.: +49 (0) 7621 - 9593 - 36  
E-mail: [h.turowski@boschert.de](mailto:h.turowski@boschert.de)



**Silvia Schwarzwaelder**

Verkauf  
Sales

Tel.: +49 (0) 7621 - 9593 - 26  
E-mail: [s.schwarzwaelder@boschert.de](mailto:s.schwarzwaelder@boschert.de)



**Sabrina Schleith**

Verkauf  
Sales

Tel.: +49 (0) 7621 - 9593 - 74  
E-mail: [s.schleith@boschert.de](mailto:s.schleith@boschert.de)



**Antoine Pelayo**

Technik  
Designer

Tel.: +49 (0) 7621 - 9593 - 37  
E-mail: [a.pelayo@boschert.de](mailto:a.pelayo@boschert.de)



**Alexander Strohmeier**

Technik  
Designer

Tel.: +49 (0) 7621 - 9593 - 27  
E-mail: [a.strohmeier@boschert.de](mailto:a.strohmeier@boschert.de)



**Marcello Scalise**

Leiter Produktion  
Production manager

Tel.: +49 (0) 7621 - 9593 - 0  
E-mail: [m.scalise@boschert.de](mailto:m.scalise@boschert.de)

certificate  
no. **DP15122**  
dated 07.12.2015

## DGUV Test Certificate

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

Product designation: **automatic chucks (manuel)**

Type: 14-20 (Mini)/19-25/22-30/30-40/40-50/50-80

Testing based on : GS-DP-01:09.2014 Principles for testing and certification of printing and paper converting machines  
Product Safety Act 11.2011

Zugehöriger Prüfbericht: A 15056  
612.17-Vg/Am  
Produktschlüsselnummer 900.2001

Weitere Angaben:

Copy

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: **2020-12-06**

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.



Dr.-Ing. Michael Ebert

### DGUV Test mark

---



certificate  
no. **DP15121**  
dated 07.12.2015

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  
Mattenstraße 1  
79541 Lörrach-Hauingen

Product designation: automatic chucks

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  
GS-DP-01:09.2014 Principles for testing and certification of printing and paper converting machines

Test report : A 15055  
612.17-Vg/Am  
Produktschlüsselnummer 900.2001

Further details:

The type tested meets the requirements specified in article 3 para. 1 of the German Product Safety Act. Thus, the 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: **2020-12-06**

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.



Dr.-Ing. Michael Ebert

**DGUV Test mark**

---





certificate  
no. **DP 08143**  
dated 31.10.2009

## GS Test Certificate

Name and address of the holder of the certificate: **Boschert GmbH & Co. KG**  
**Mattenstraße 1**  
(customer) D-79541 Lörrach

Name and address of the Manufacturer: siehe oben

Product designation: **Pneumatic-Chuck**

Type: P 40,P 50

Testing based on: 2006/42/EG Machinery Directive 06/2006  
EN 1010-1 Safety of machinery - Safety requirements for the design and construction of printing and paper converting machines, Part 1: common requirements 11/2004

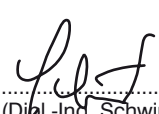
Remarks: This GS Test Certificate replaces the GS Test Certificate DP 08143 dated 12.06.2008.

The type tested meets the requirements specified in article 7 para. 1 sentence 2 of the German Equipment and Product Safety Act. The holder of the certificate is entitled to affix the GS mark shown overleaf to the products complying with the type tested. At that, the holder of the certificate shall observe the conditions specified overleaf.

The present certificate including the right to affix the GS mark will become invalid at the latest on: **11.06.2013**

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 of September 2008.



  
Signature (Dipl.-Ing. Schwind)

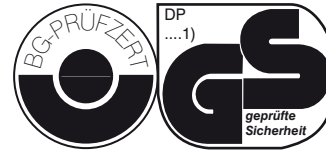
Postal address: Postfach • D-65173 Wiesbaden • Office: Rheinstr. 6-8 • D-65185 Wiesbaden  
Phone: +49 (0) 611/131-219 • Fax: +49 (0) 611/131-155 • E-Mail: fadp@bgdp.de • Pruefstelle@BGDP.DE  
612.17-Eb/Ho • Test report: A 07218 • Produktschlüsselnummer: 009.200515



GS mark



standard design



Approved design for a height of 20 mm or less

1)no. of certificate

- 
1. The holder of the certificate shall comply with the conditions to be observed in the production of the product specified overleaf in order to ensure conformity with the tested type.
  2. The Testing and Certification body of Wahr shall, in regular intervals, carry out control measures for monitoring the production and the correct application of the GS mark.
  3. The person responsible for the production has been obliged to observe the conditions according to 1. and to accept the control measures.
  4. The Testing and Certification Body shall withdraw the allocation of the GS mark from the holder of the certificate if the requirements according to article 7 para. 1 sentence 2 of the German Equipment and Product Safety Act are modified or the conditions according to 1. are not met.
  5. The GS mark shall only be applied and it shall only be used in advertising, if the conditions according to article 7 para. 1, sentence 1 of the German Equipment and Product Safety Act are met.
-

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# Boschert

## 60 Years of partnership with our customers

Customer service, reliability, quality and flexibility are the foundation of our company for more than 60 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.

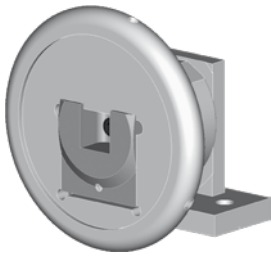


Final assembly of Boschert Safety Chucks.

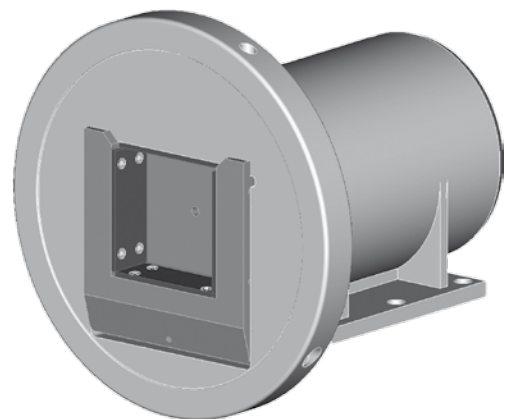
The final step is the application of safety labels. From here the shipment of the Safety Chuck joins a world of Boschert Safety Chucks.



## 2.0 Overview Safety chucks



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



## 2.00 Boschert-Chuck Mini



**Mini STO**

**Boschert** foot mounted chuck without shaft end

**Mini STW**

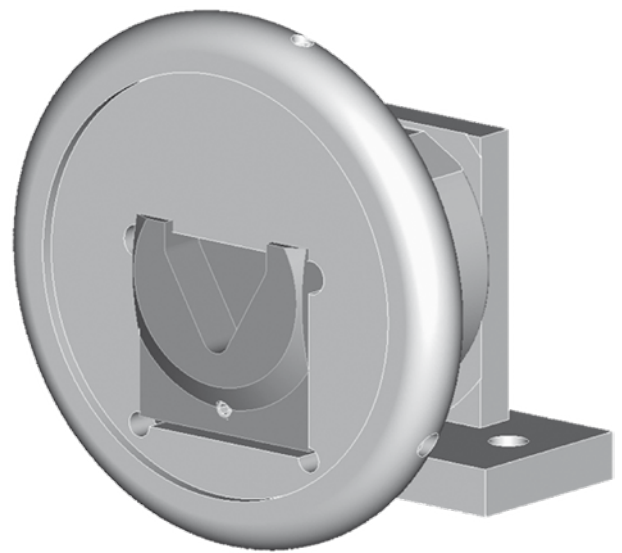
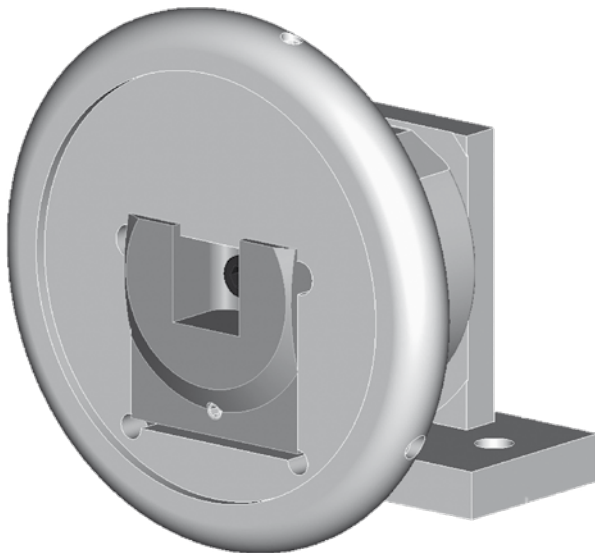
**Boschert** foot mounted chuck with shaft end

**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:**

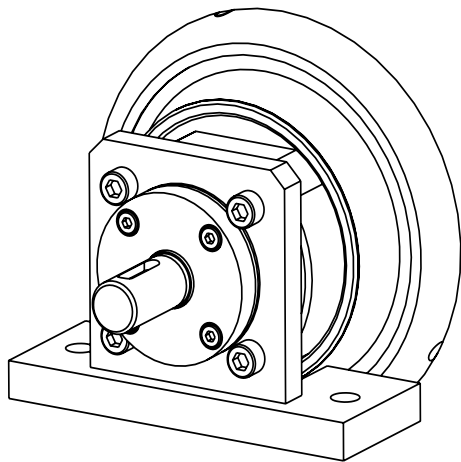
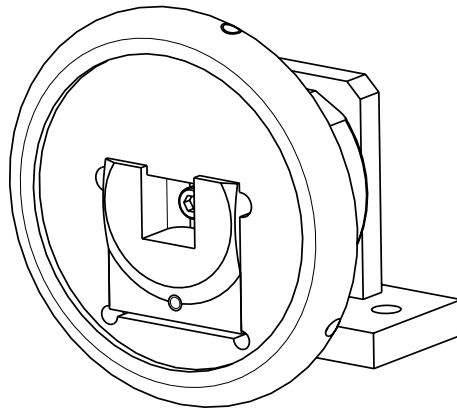
1350 min<sup>-1</sup>

		Info
Type:	C	2.54
Journal shaft type:	square bar / triangle	2.03
Shaft end:	standard	2.03
Add. parts:	brakes	6.00
	clutches	7.00

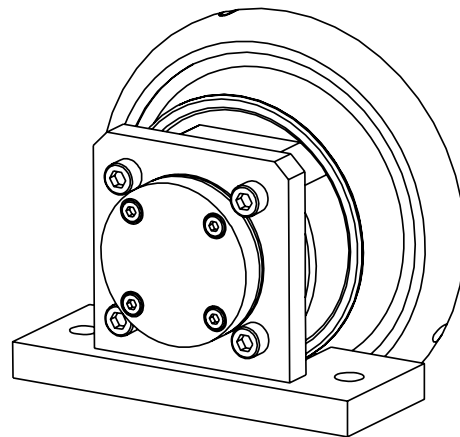
# Boschert-Chuck Mini foot mounted



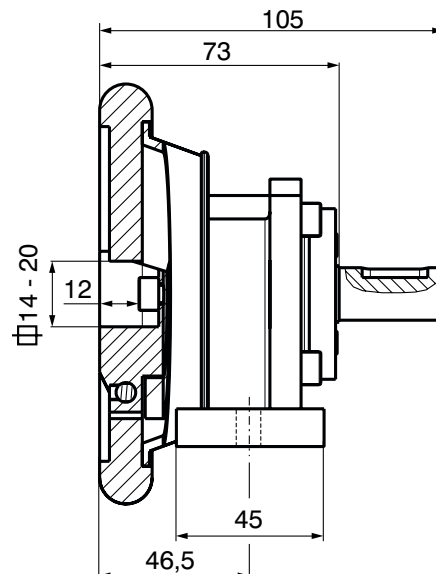
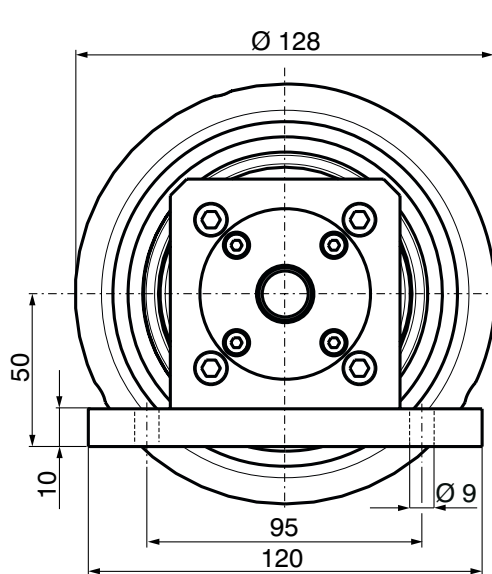
## Boschert-Chuck Mini type C



STW Mini  
chuck with shaft end



STO Mini  
chuck without shaft end



Shaft end details page 2.03

2.01

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

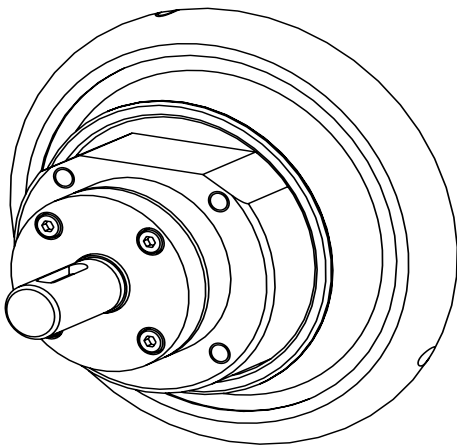
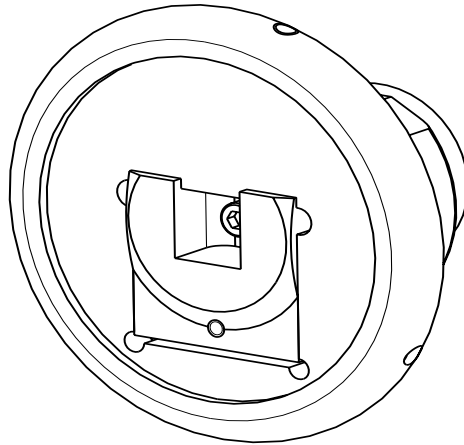
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

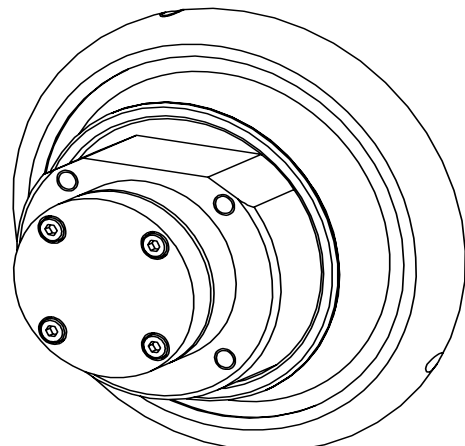
# Boschert-Chuck Mini flange mounted



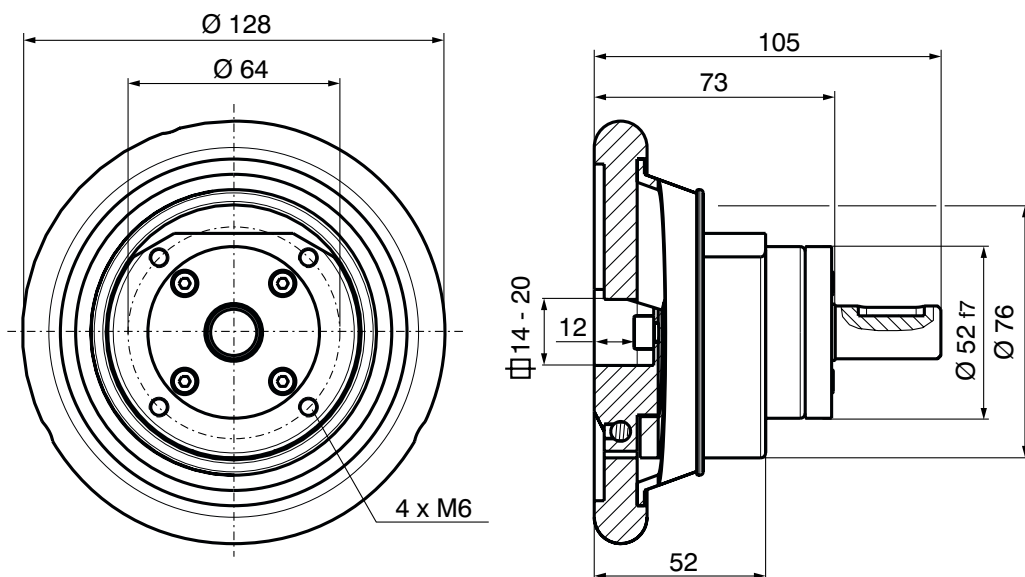
## Boschert-Chuck Mini type C



FLW Mini  
chuck with shaft end



FLO Mini  
chuck without shaft end

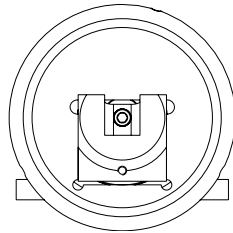


Shaft end details page 2.03

# Boschert-Chuck Mini options

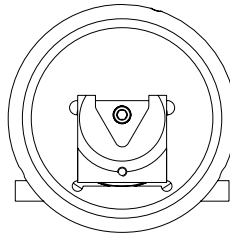


## Journal shaft type



square bar

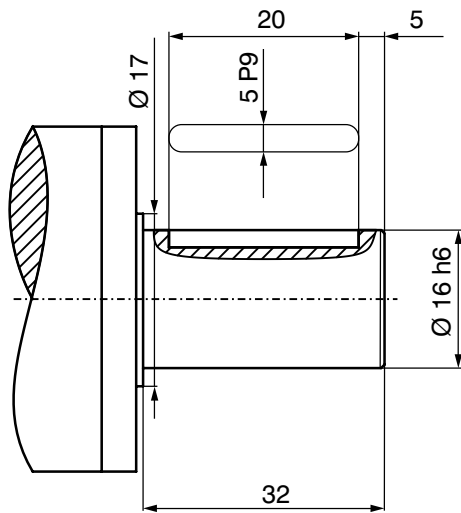
Info: 11.10



triangle

Info: 11.11

## Shaft end



Standard shaft end

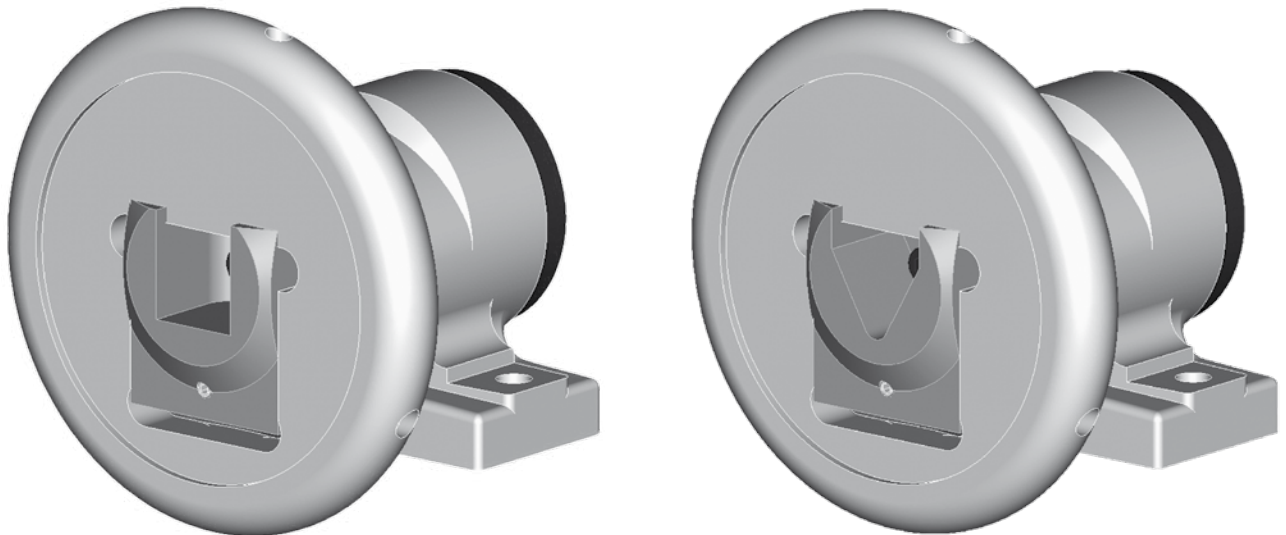
Special shaft ends per customer request

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<sup>-1</sup>

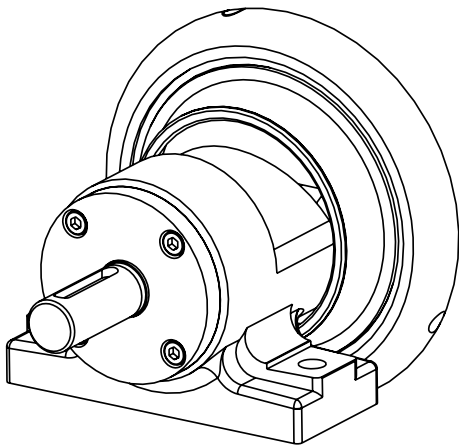
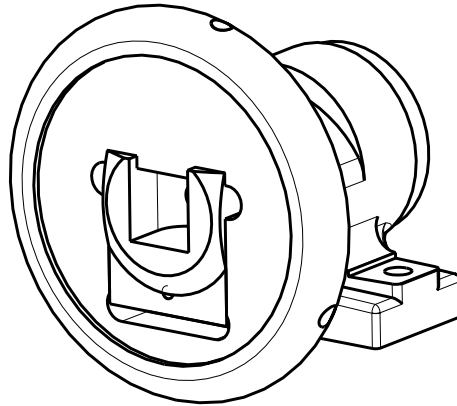
		<b>Info</b>
<b>Type:</b>	C	2.54
<b>Journal shaft type:</b>	square bar / triangle	2.13
<b>Shaft end:</b>	standard	2.13
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00



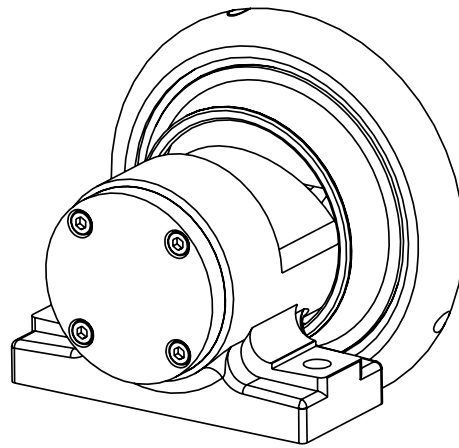
# Boschert-Chuck 19-25 foot mounted



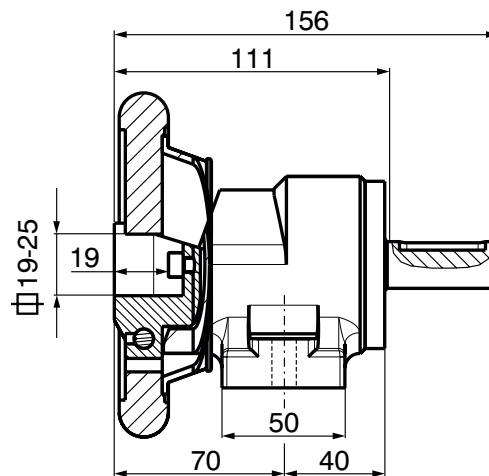
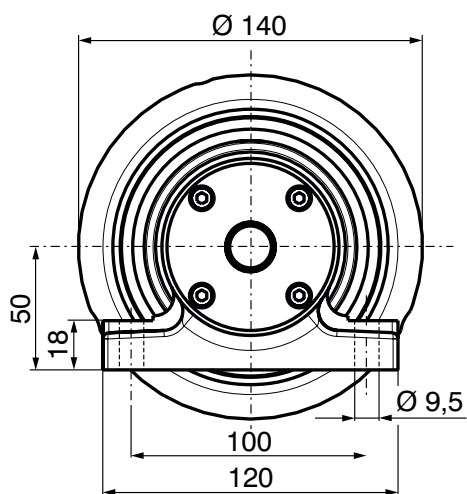
## Boschert-Chuck 19-25 type C



**STW 19-25**  
chuck with shaft end



**STO 19-25**  
chuck without shaft end

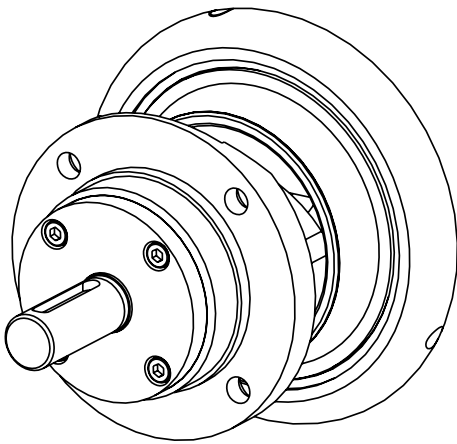
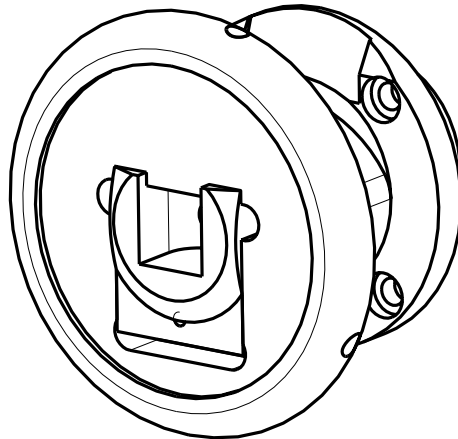


Shaft end details page 2.13

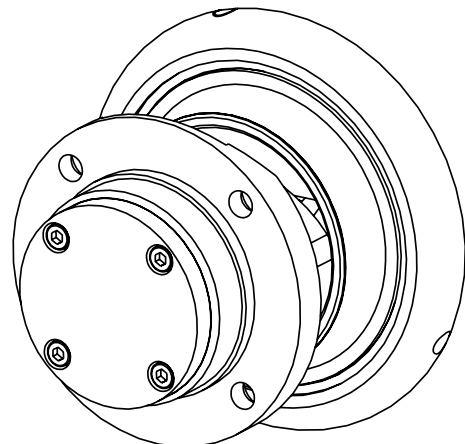
# Boschert-Chuck 19-25 flange mounted



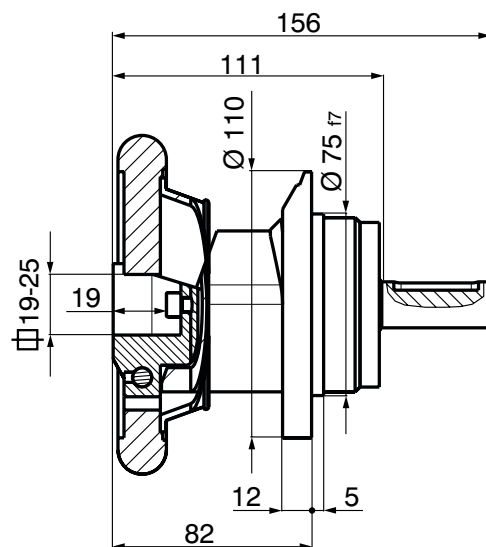
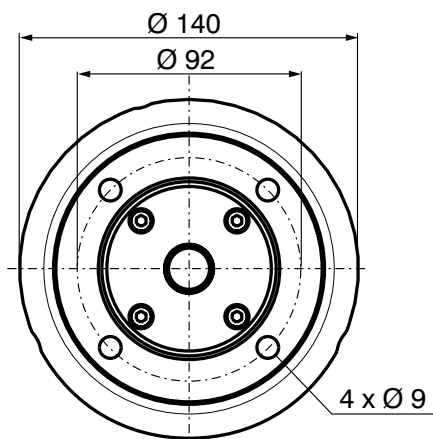
## Boschert-Chuck 19-25 type C



**FLW 19-25**  
chuck with shaft end



**FLO 19-25**  
chuck without shaft end

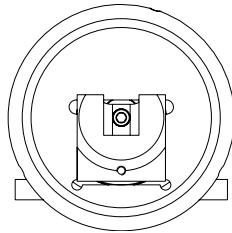


**Shaft end details page 2.13**

# Boschert-Chuck 19-25 options

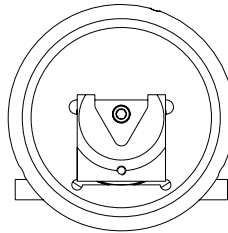


## Journal shaft type



square bar

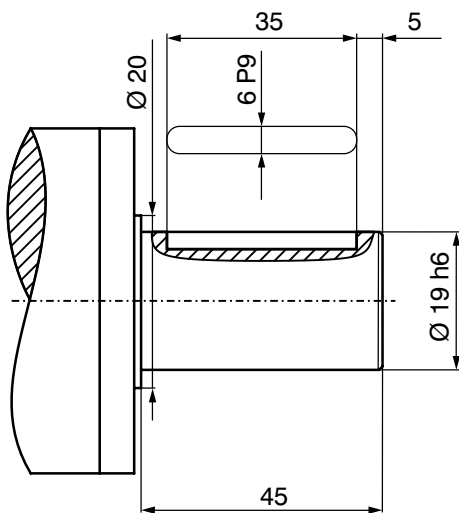
Info: 11.10



triangle

Info: 11.11

## Shaft end



Standard shaft end

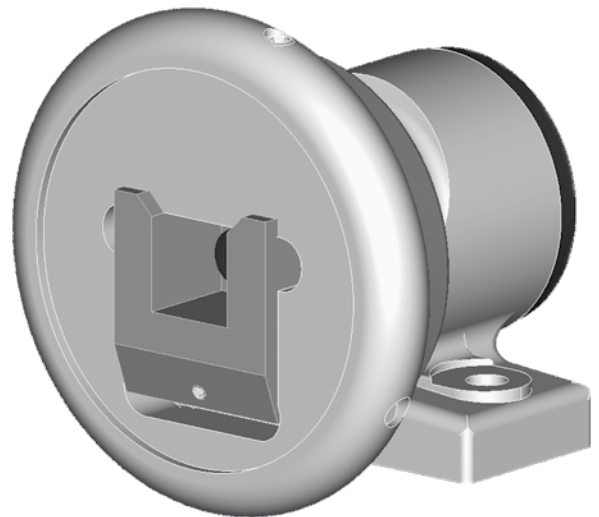
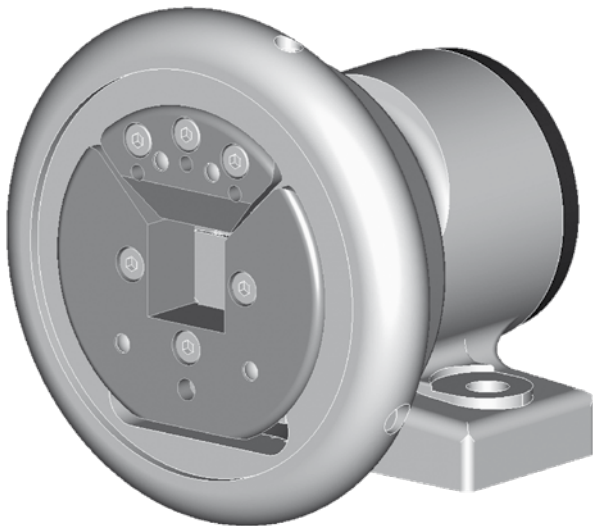
Special shaft ends per customer request

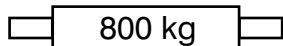
Max. shaft-dia.: Ø 25 mm  
(special shaft without stop)

## 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



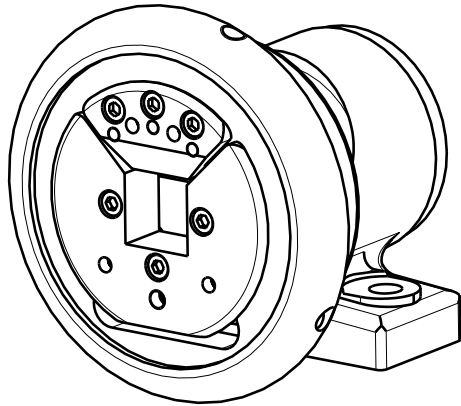
- Square bar:** □ 22 mm - 30 mm (0.8661" - 1.1811")  
**Standard square bar:** □ 30 mm (1.1811")  
**max. beam weight:**  800 kg (1760 lbs)  
**max. torque:** ↻ 180 Nm (132.8 ft/lb)  
**max. rpm:** 1350 min<sup>-1</sup>

		Info
<b>Type:</b>	VT	2.55
	C	2.54
<b>Journal shaft type VT:</b>	VT1 / VT2 / VT6 / VT7	2.23
<b>Shaft end:</b>	standard	2.23
<b>Handwheel lock:</b>	HRV I (left/right)	2.23
<b>Special models:</b>	90° mounting	8.01
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00

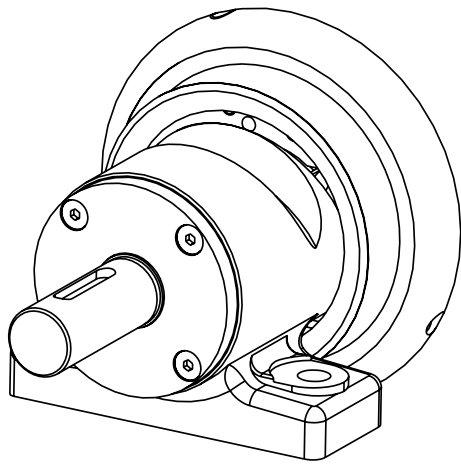
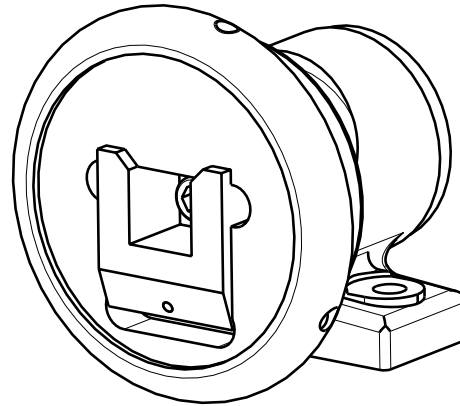
# Boschert-Chuck 22-30 foot mounted



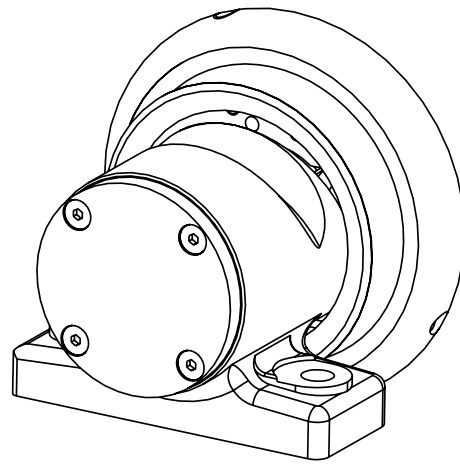
Boschert-Chuck 22-30 type VT



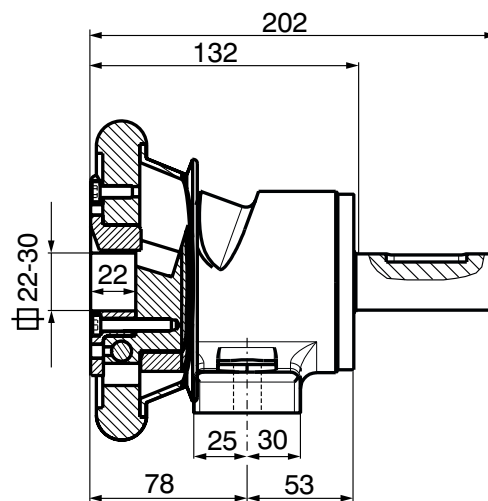
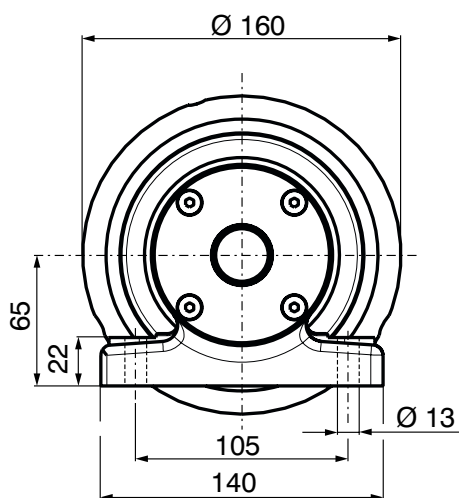
Boschert-Chuck 22-30 type C



STW 22-30  
chuck with shaft end



STO 22-30  
chuck without shaft end

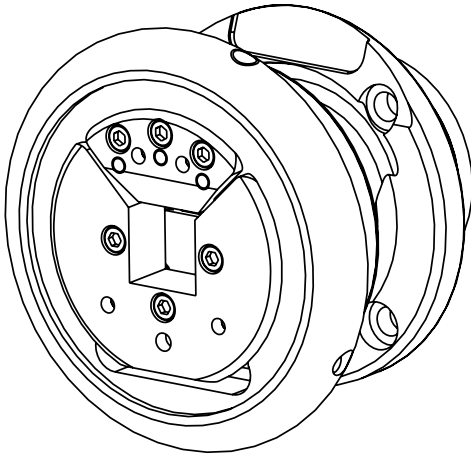


Shaft end details page 2.23

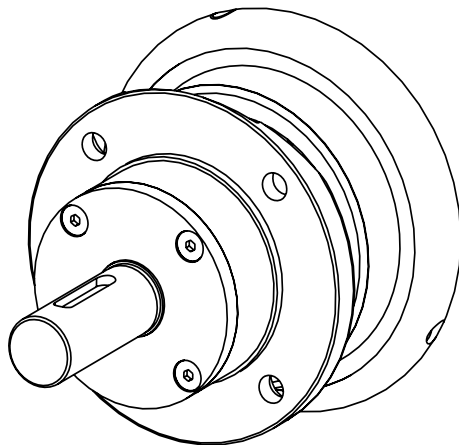
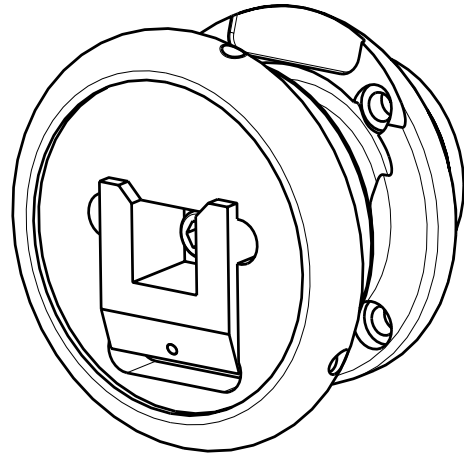
# Boschert-Chuck 22-30 flange mounted



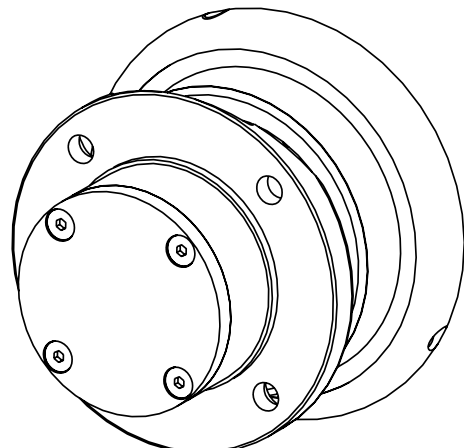
Boschert-Chuck 22-30 type VT



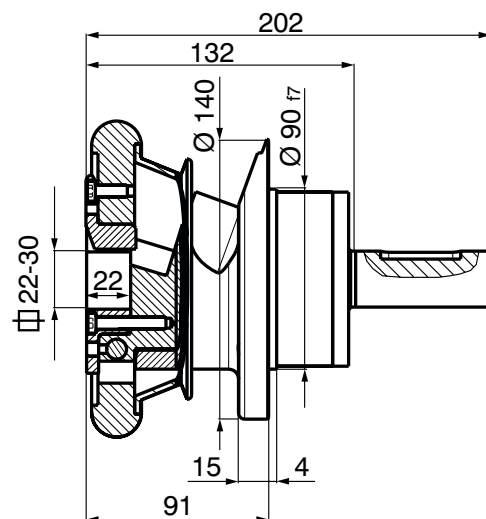
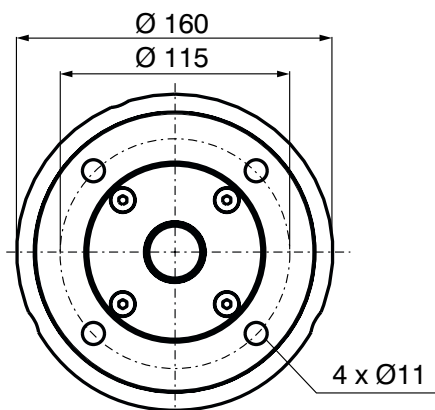
Boschert-Chuck 22-30 type C



FLW 22-30  
chuck with shaft end



FLO 22-30  
chuck without shaft end



Shaft end details page 2.23

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

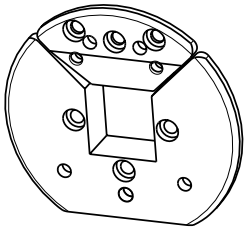
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

2.22

# Boschert-Chuck 22-30 options

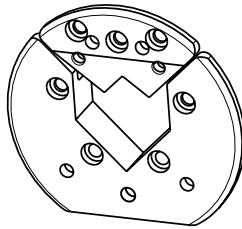


## Journal shaft type



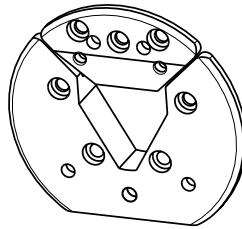
VT 1

Info: 11.10



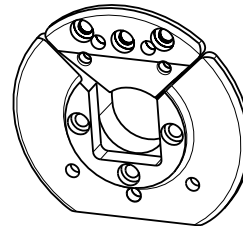
VT 2

Info: 11.10



VT 6

Info: 11.11



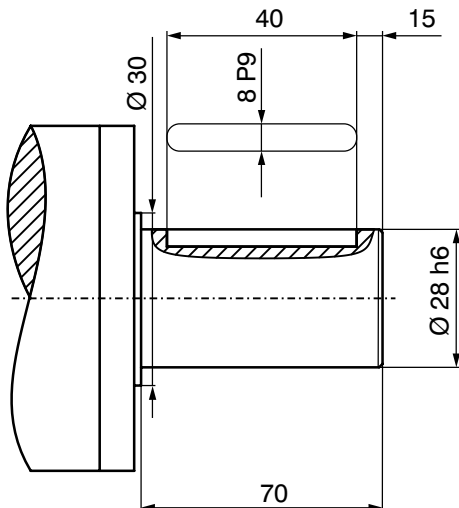
VT 7

Info: 11.12

**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

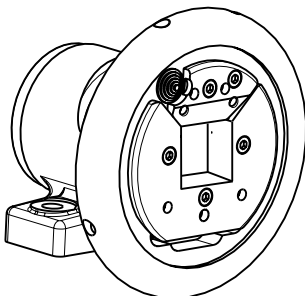


Standard shaft end

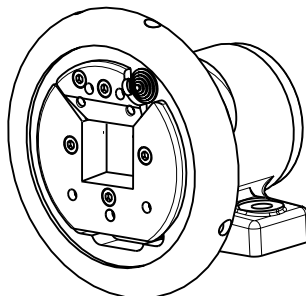
Special shaft ends per customer request

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

## Handwheel lock



HRV I left



HRV I right

Info  
8.30

Info  
8.31

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

## 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")  
**max. beam weight:** □ 1600 kg □ (3530 lbs)  
**max. torque:** ↻ 350 Nm (258.1 ft/lb)  
**max. rpm:** 1350 min<sup>-1</sup>

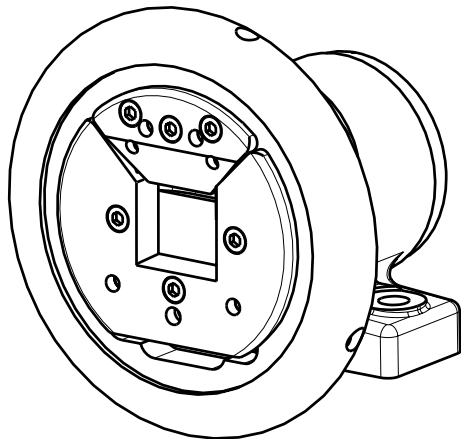
		Info
<b>Type:</b>	VT	2.55
	C	2.54
<b>Journal shaft type VT:</b>	VT1 / VT2 / VT6 / VT7	2.33
<b>Shaft end:</b>	standard	2.33
<b>Handwheel lock:</b>	HRV II (left/right)	2.33
<b>Special models:</b>	90° mounting	8.01
	extended chuck	8.10
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00



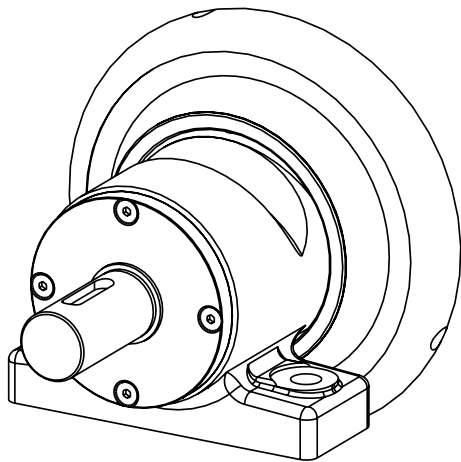
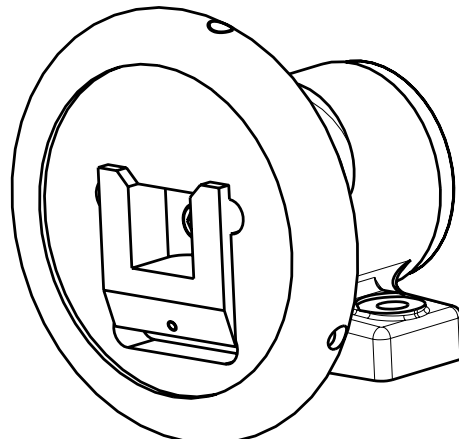
# Boschert-Chuck 30-40 foot mounted



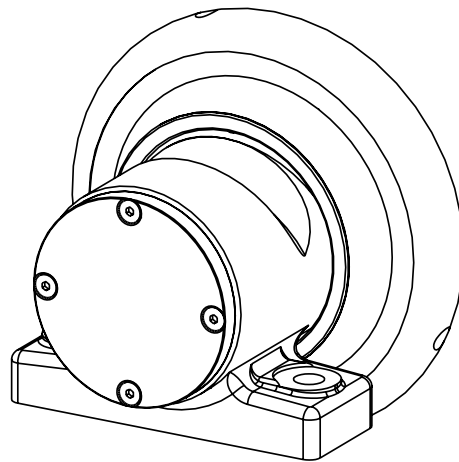
Boschert-Chuck 30-40 type VT



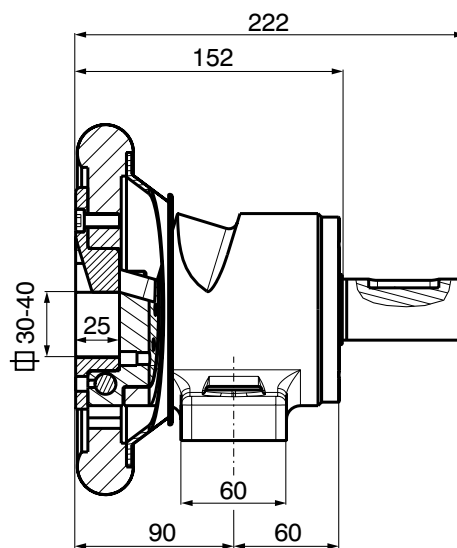
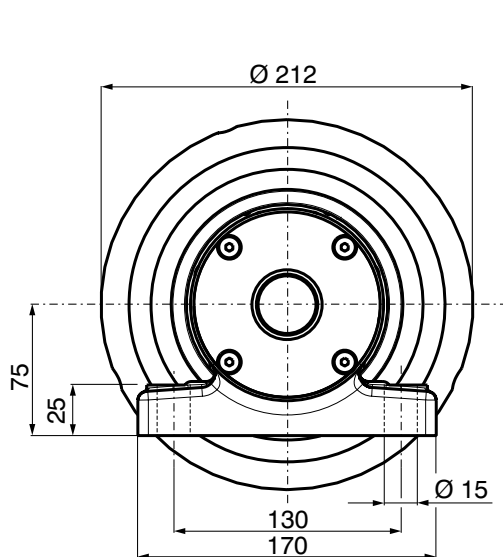
Boschert-Chuck 30-40 type C



STW 30-40  
chuck with shaft end



STO 30-40  
chuck without shaft end

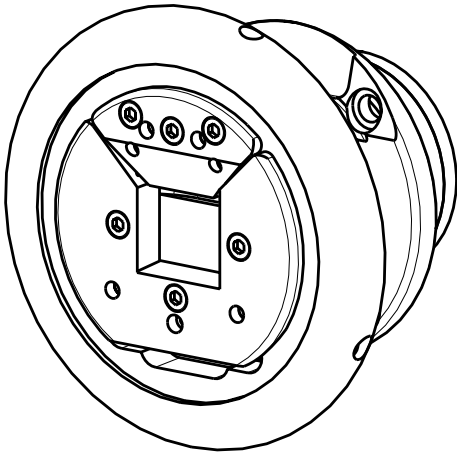


Shaft end details page 2.33

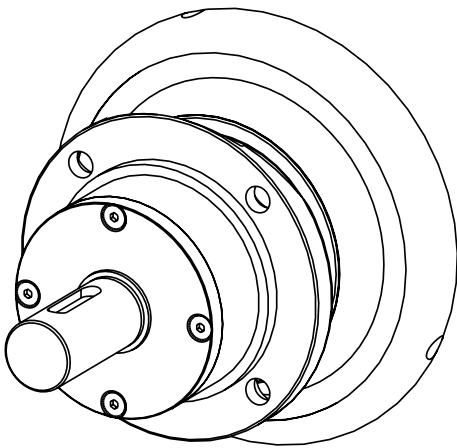
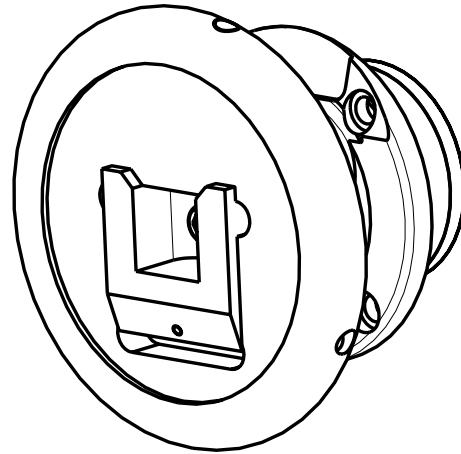
# Boschert-Chuck 30-40 flange mounted



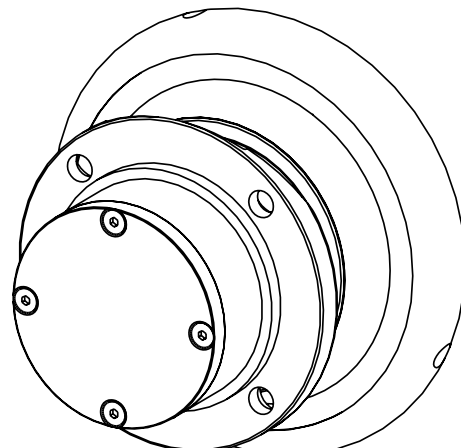
Boschert-Chuck 30-40 type VT



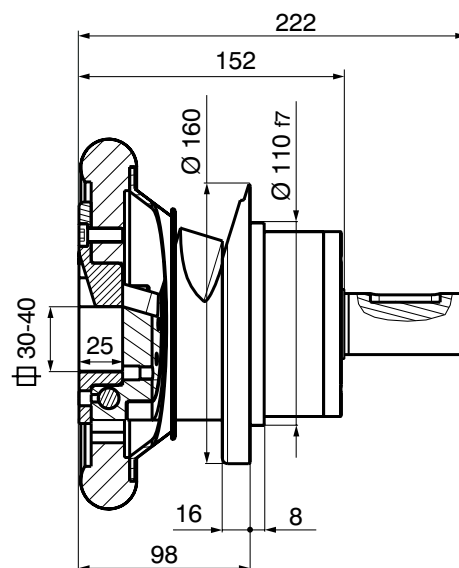
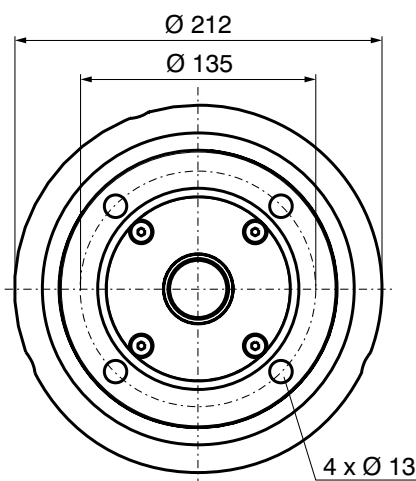
Boschert-Chuck 30-40 type C



FLW 30-40  
chuck with shaft end



FLO 30-40  
chuck without shaft end



Shaft end details page 2.33

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D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

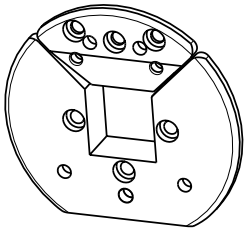
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

**2.32**

# Boschert-Chuck 30-40 options

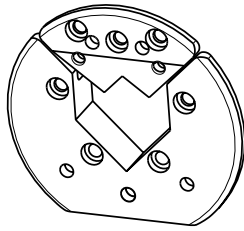


## Journal shaft type



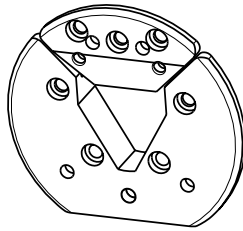
VT 1

Info: 11.10



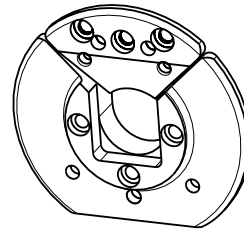
VT 2

Info: 11.10



VT 6

Info: 11.11



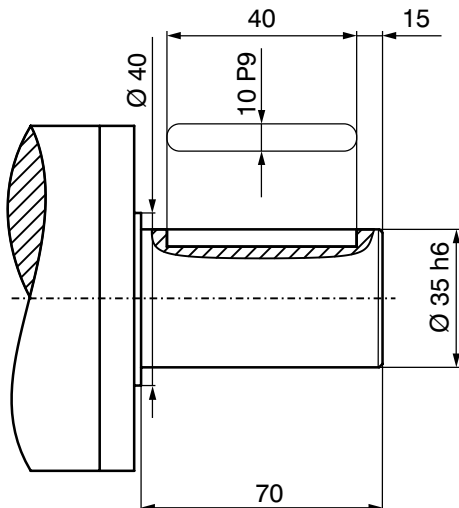
VT 7

Info: 11.12

**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

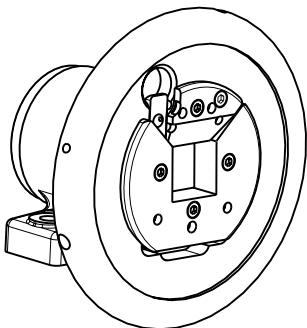


Standard shaft end

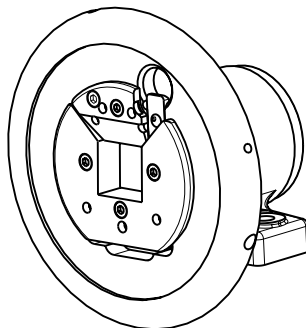
Special shaft ends per customer request

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

## Handwheel lock



HRV II left



HRV II right

Info  
8.30

Info  
8.31

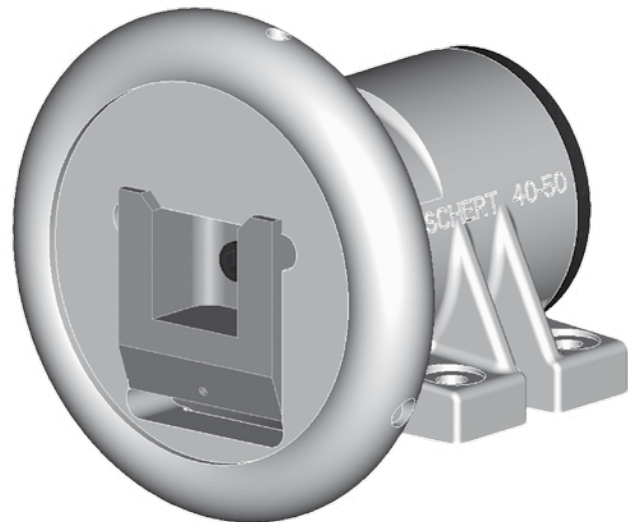
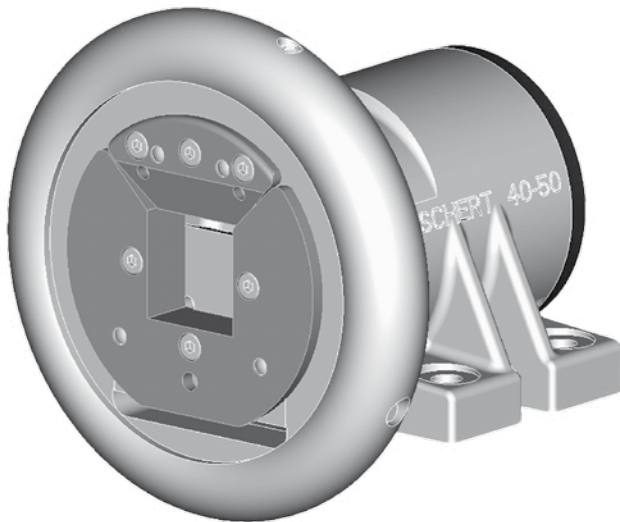
**Due to safety reasons we recommend  
handwheel locks on applications in turret winders.**

**Handwheel-diameter on chucks with lock type II: Ø 250 mm**

## 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



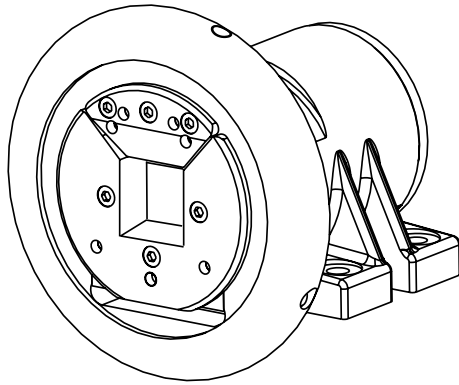
- Square bar:** □ 40 mm - 50 mm (1.5748" - 1.9685")  
**Standard square bar:** □ 50 mm (1.9685")  
**max. beam weight:** □ 2800 kg □ (6170 lbs)  
**max. torque:** ↻ 1100 Nm (800 ft/lb)  
**max. rpm:** 1350 min<sup>-1</sup>

		Info
<b>Type:</b>	VT	2.55
	C	2.54
<b>Journal shaft type VT:</b>	VT1 / VT2 / VT6 / VT7	2.43
<b>Shaft end:</b>	Standard	2.43
<b>Handwheel lock:</b>	HRV II (left/right)	2.43
<b>Special models:</b>	90° mounting	8.01
	extended chuck	8.11
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00

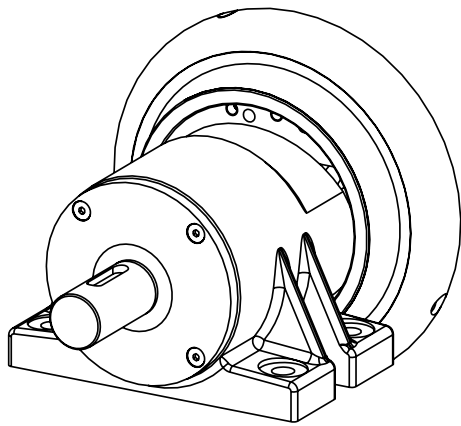
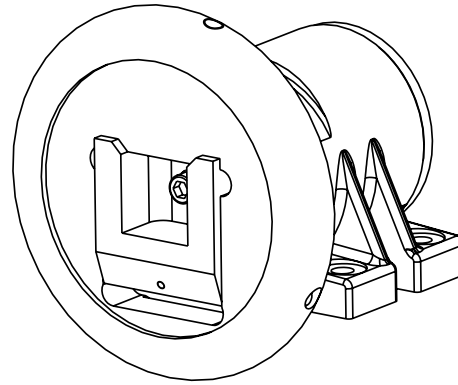
# Boschert-Chuck 40-50 foot mounted



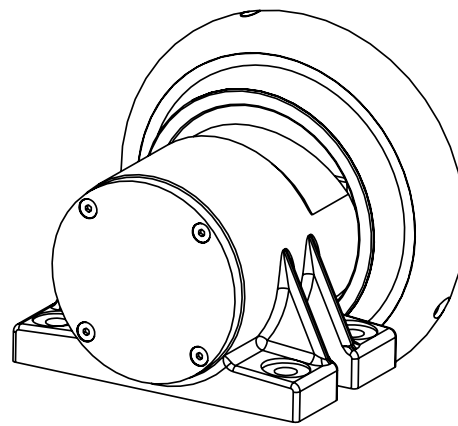
Boschert-Chuck 40-50 type VT



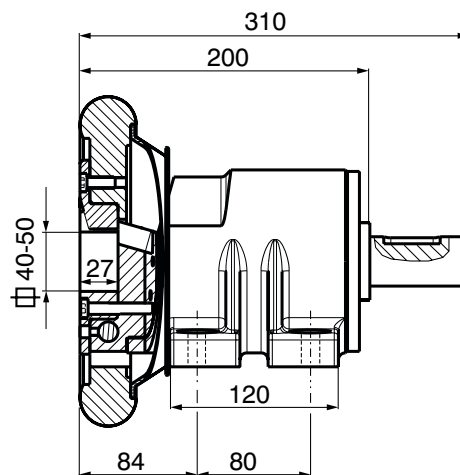
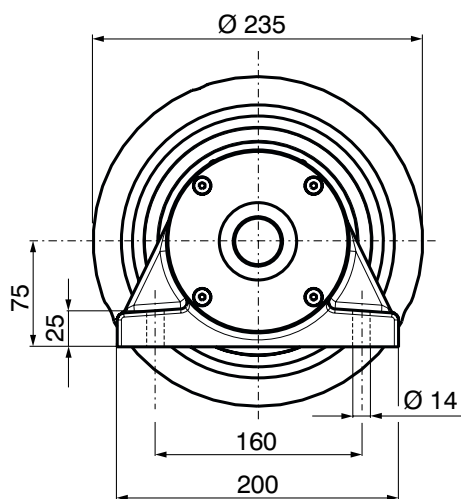
Boschert-Chuck 40-50 type C



STW 40-50  
chuck with shaft end



STO 40-50  
chuck without shaft end

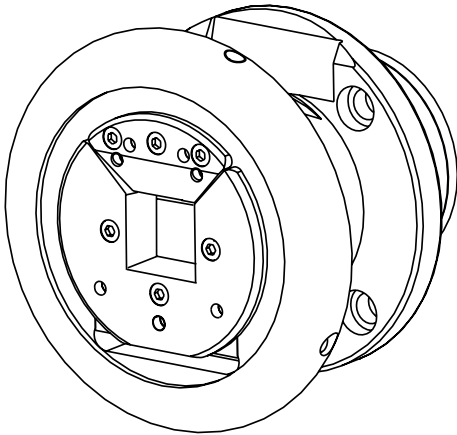


Shaft end details page 2.43

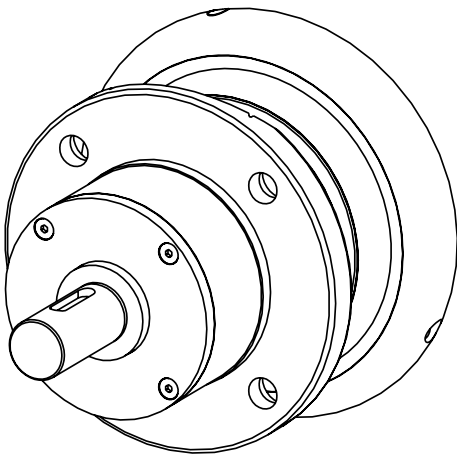
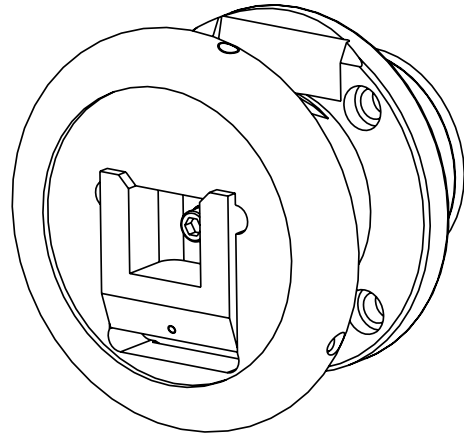
# Boschert-Chuck 40-50 flange mounted



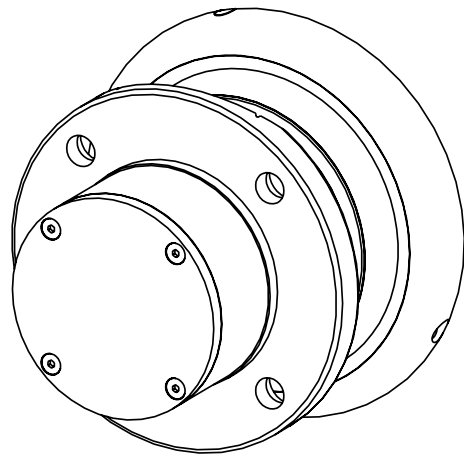
Boschert-Chuck 40-50 type VT



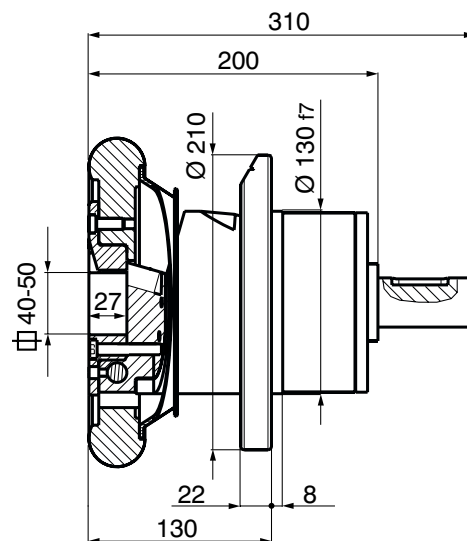
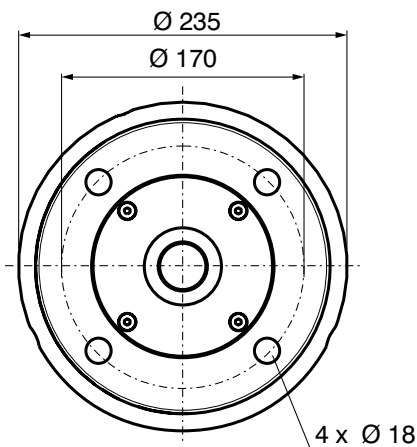
Boschert-Chuck 40-50 type C



**FLW 40-50**  
chuck with shaft end



**FLO 40-50**  
chuck without shaft end

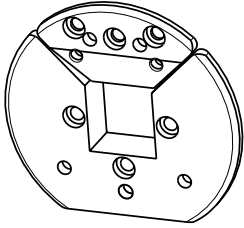


**Shaft end details page 2.43**

# Boschert-Chuck 40-50 options

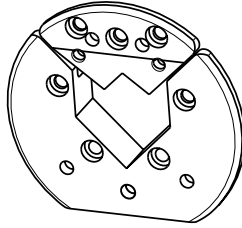


## Journal shaft type



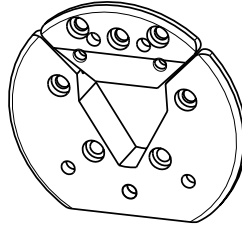
VT 1

Info: 11.10



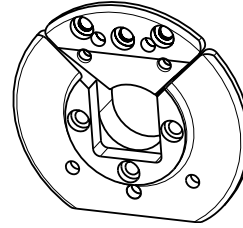
VT 2

Info: 11.10



VT 6

Info: 11.11



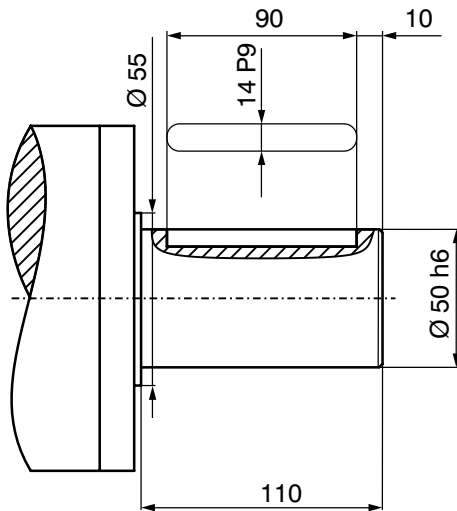
VT 7

Info: 11.12

**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

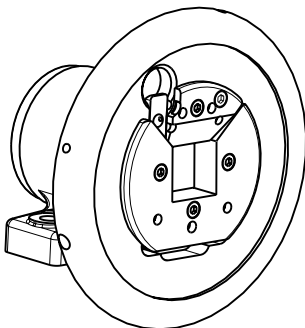


Standard shaft end

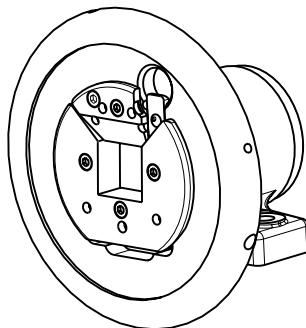
Special shaft ends per customer request

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

## Handwheel lock



HRV II left



HRV II right

Info  
8.30

Info  
8.31

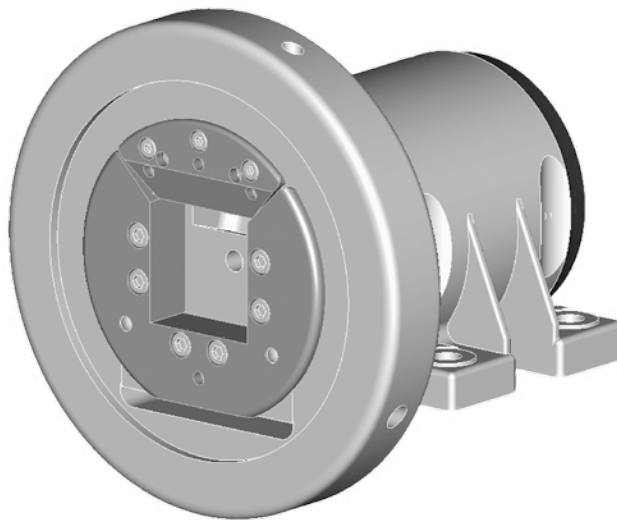
**Due to safety reasons we recommend handwheel locks on applications in turret winders.**

**Handwheel-diameter on chucks with lock type II: Ø 250 mm**

## 2.50 Boschert-Chuck 50-80



- 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")
- max. beam weight:**              □ 7000 kg                      (15430 lbs)
- max. torque:**                      ↻ 2350 Nm                      (1700 ft/lb)

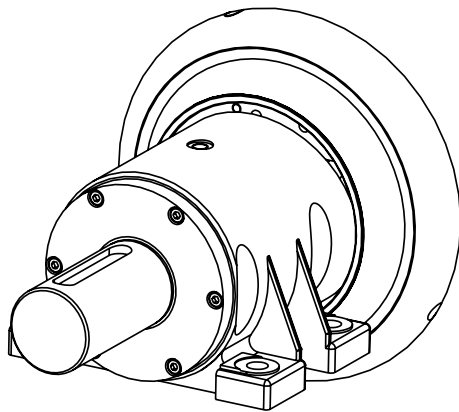
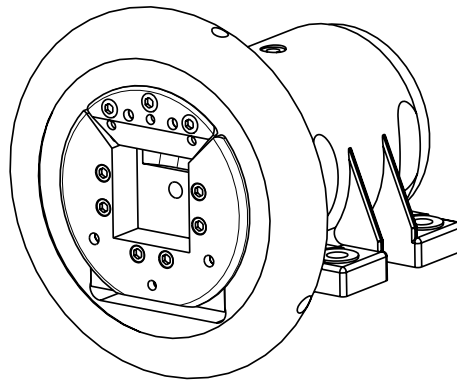
		Info
<b>Typ:</b>	VT	2.55
<b>Journal shaft type VT:</b>	VT1 / VT2 / VT6 / VT7	2.53
<b>Shaft end:</b>	standard	2.53
<b>Handwheel lock:</b>	lock type II (left/right)	2.53
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00



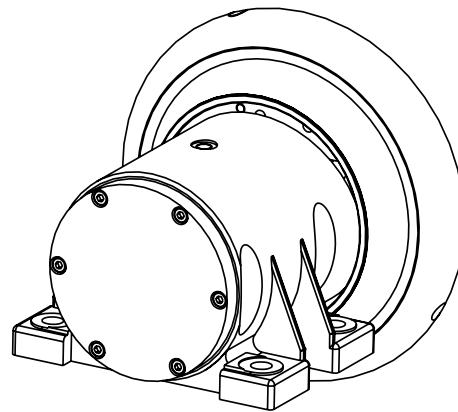
# Boschert-Chuck 50-80 foot mounted



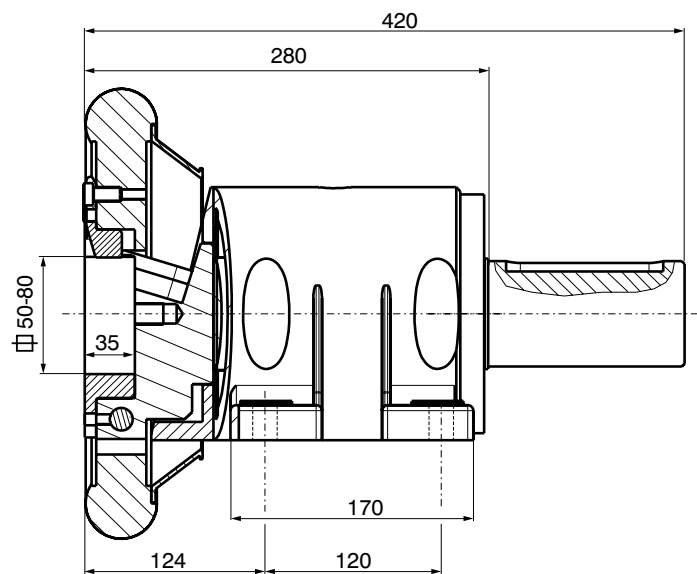
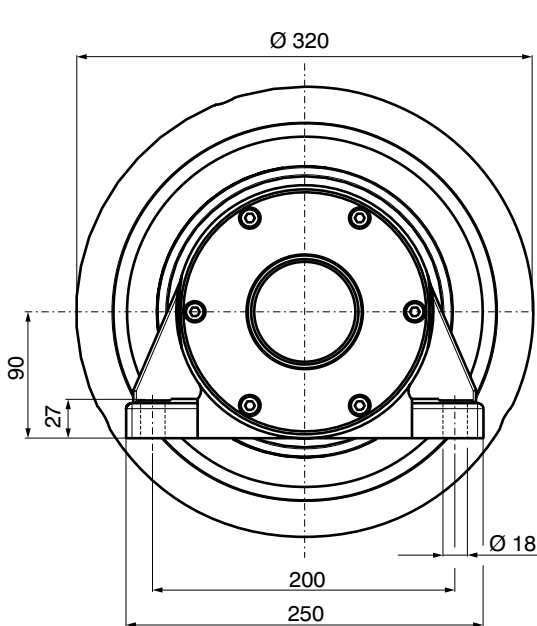
## Boschert-Chuck 50-80 type VT



**STW 50-80**  
chuck with shaft end



**STO 50-80**  
chuck without shaft end



Shaft end details page 2.53

**2.51**

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D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

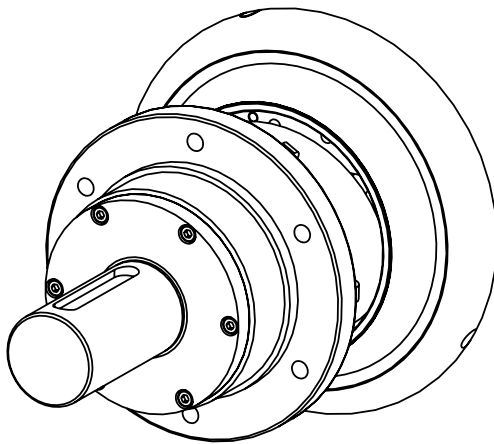
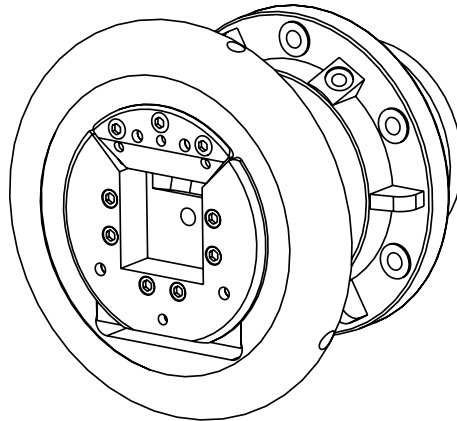
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

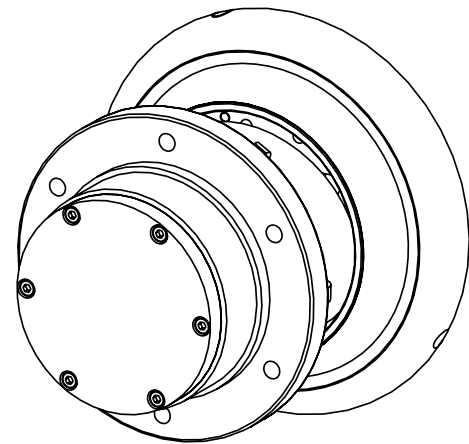
# Boschert-Chuck 50-80 flange mounted



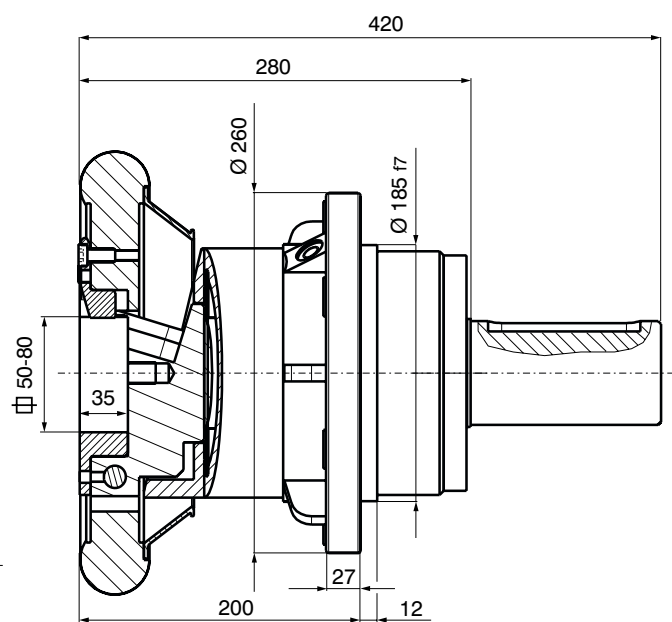
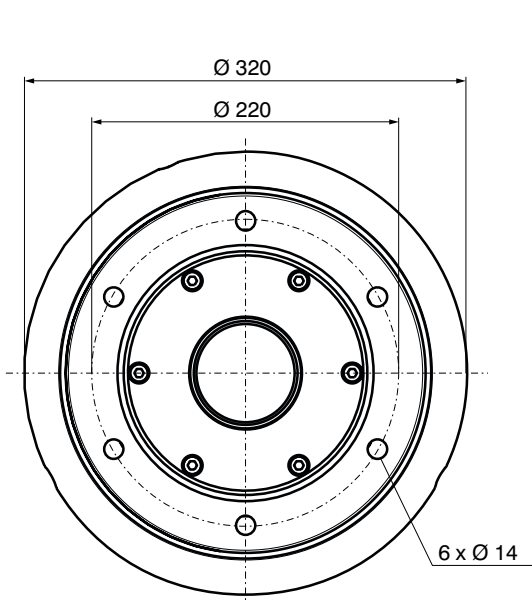
## Boschert-Chuck 50-80 type VT



**FLW 50-80**  
chuck with shaft end



**FLO 50-80**  
chuck without shaft end

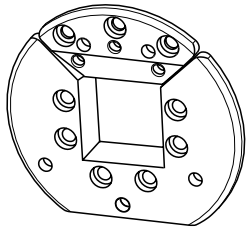


**Shaft end details page 2.53**

# Boschert-Chuck 50-80 options

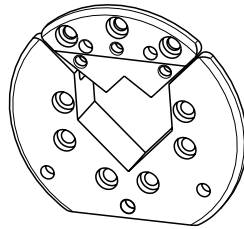


## Journal shaft type



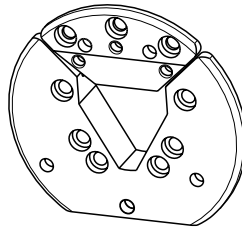
VT 1

Info: 11.10



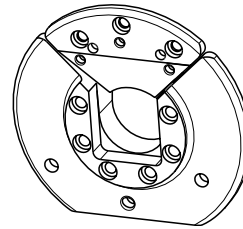
VT 2

Info: 11.10



VT 6

Info: 11.11



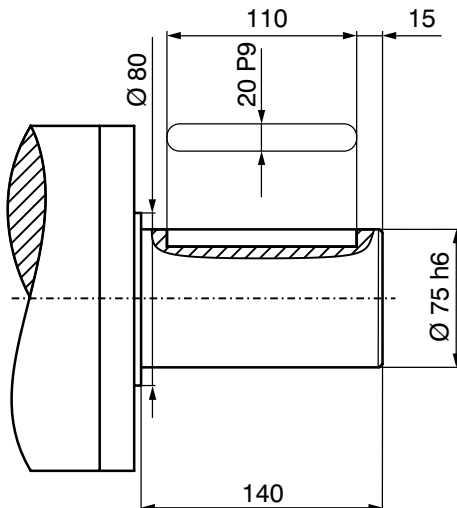
VT 7

Info: 11.12

**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

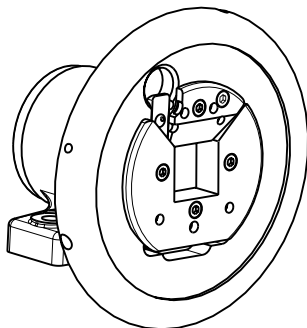


Standard shaft end

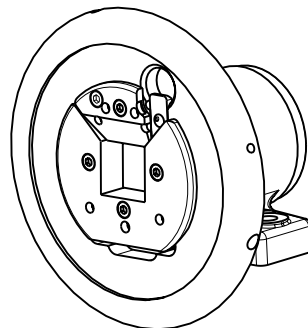
Special shaft ends per customer request

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

## Handwheel lock



HRV II left



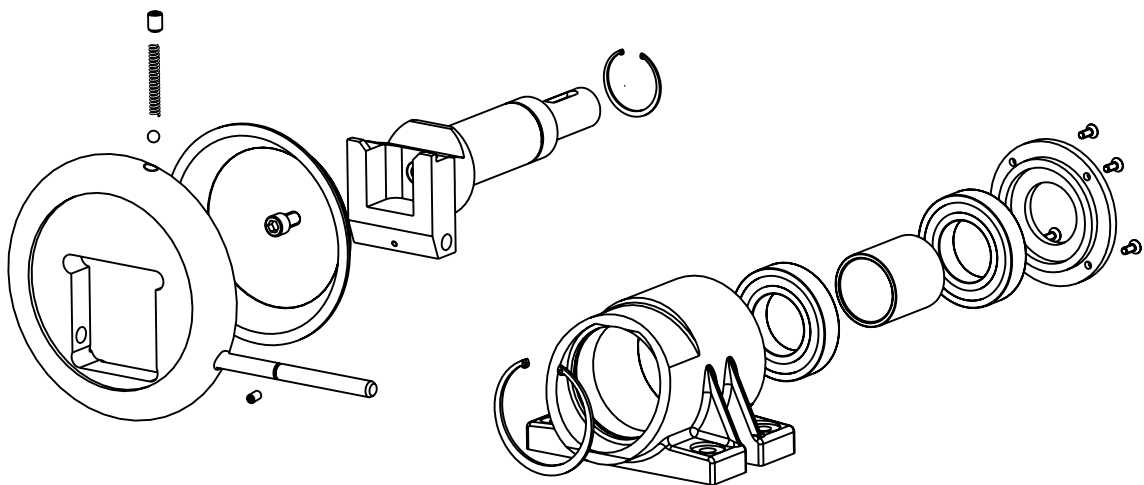
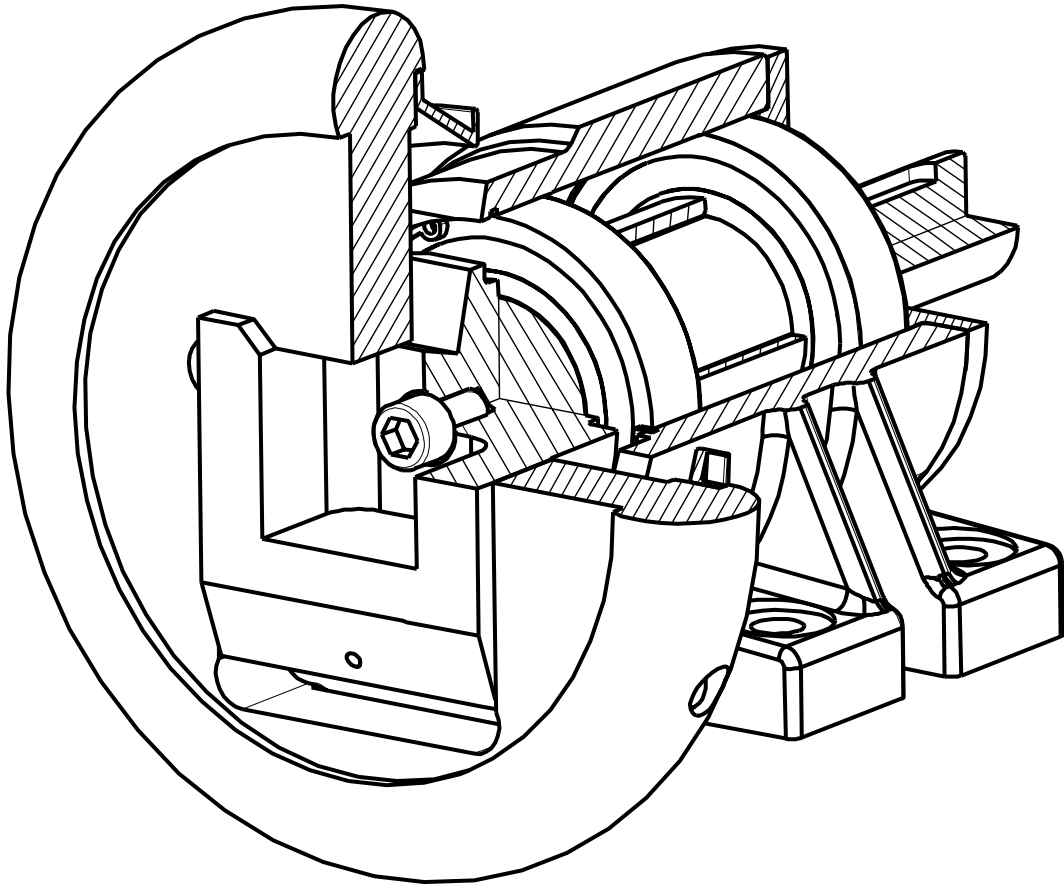
HRV II right

Info  
8.30

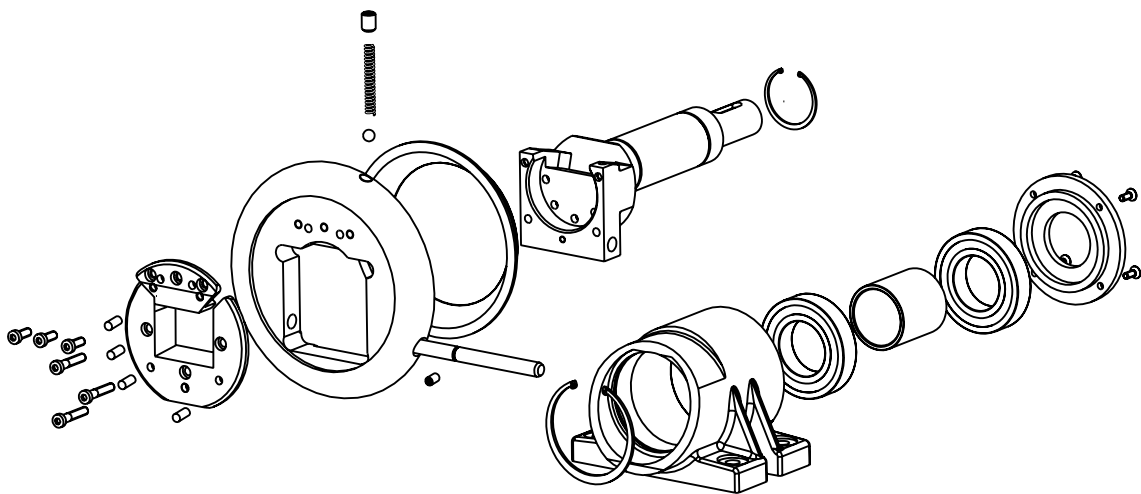
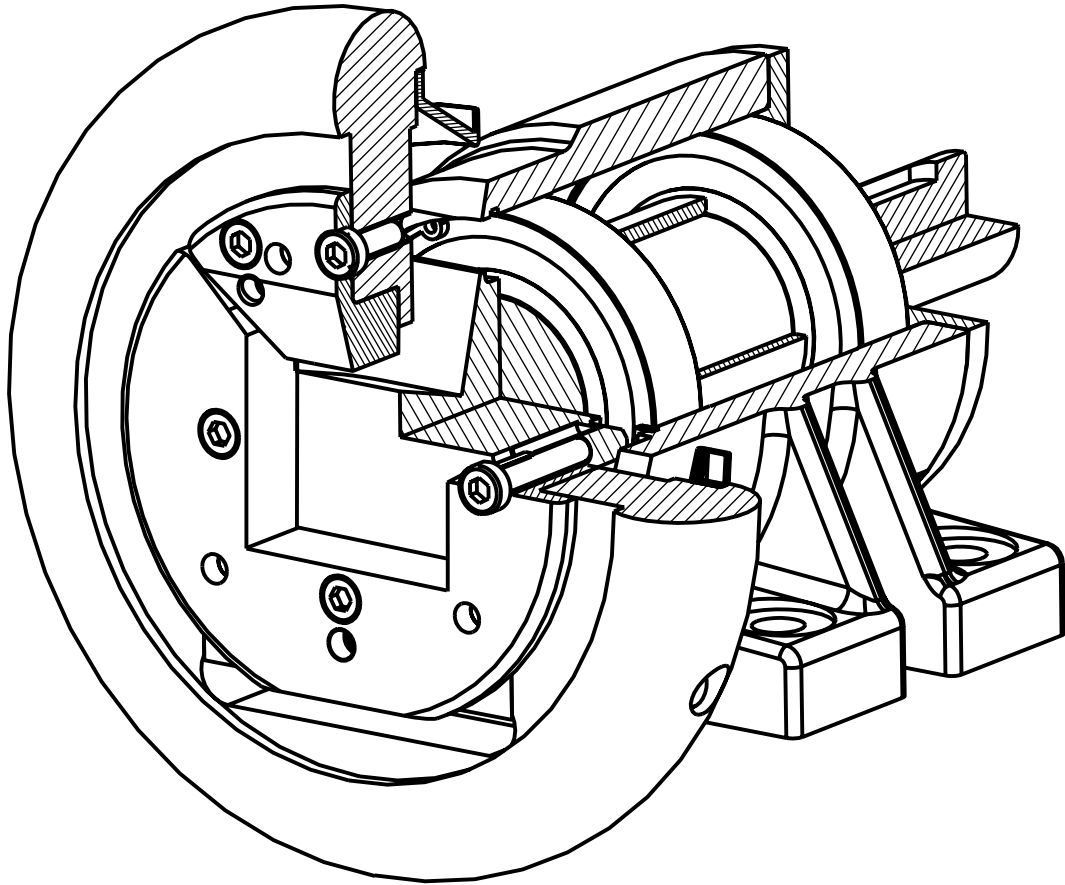
Info  
8.31

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

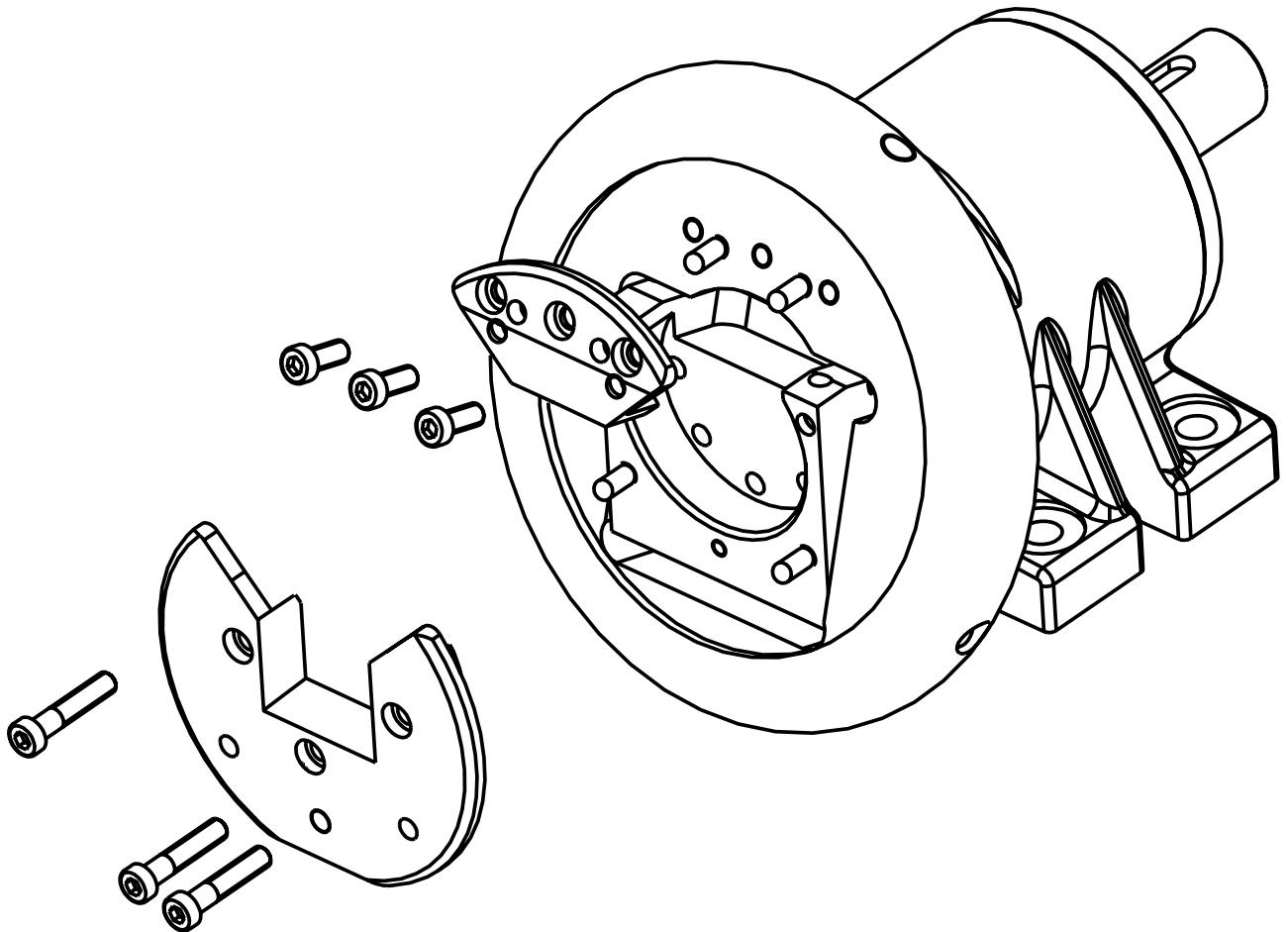
# Construction Boschert-Chuck type C



# 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!**

## Info wearing-parts



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:

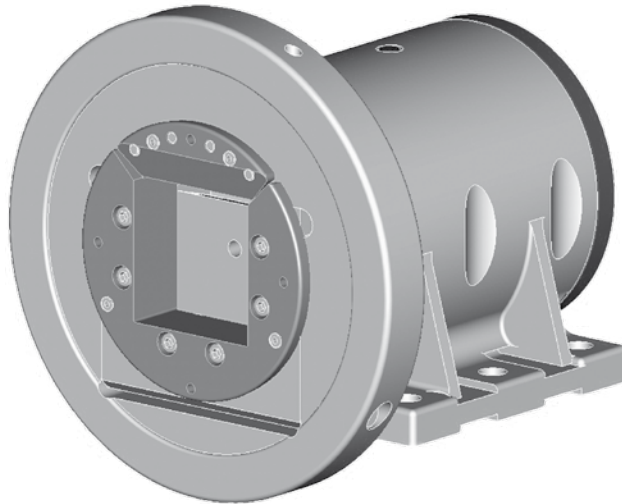
max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

## 2.70 Boschert-Chuck 80-120



- 80-120 STO** *Boschert* foot mounted chuck without shaft end  
**80-120 STW** *Boschert* foot mounted chuck with shaft end  
**80-120 FLO** *Boschert* flange mounted chuck without shaft end  
**80-120 FLW** *Boschert* flange mounted chuck with shaft end



- Square bar:** □ 80 mm - 120 mm (3.1496" - 4.7244")  
**Standard square bar:** □ 120 mm (4.744")  
**max. beam weight:** □ 12000 kg □ (26460 lbs)  
**max. torque:** ↻ 10000 Nm (7230 ft/lb)

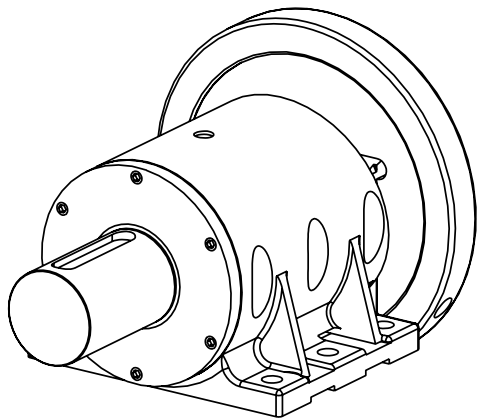
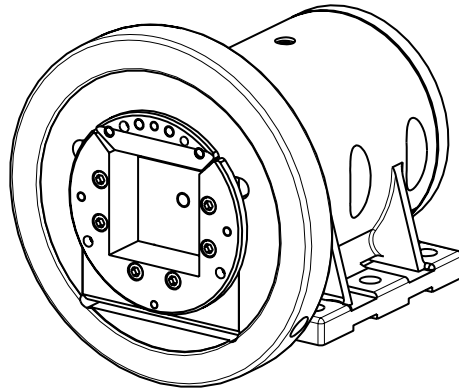
		Info
Type:	VT	2.55
Journal shaft type:	VT1 / VT6	2.73
Shaft end:	per customer specification	2.73



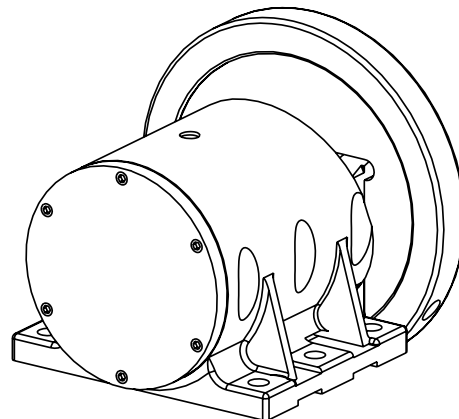
# Boschert-Chuck 80-120 foot mounted



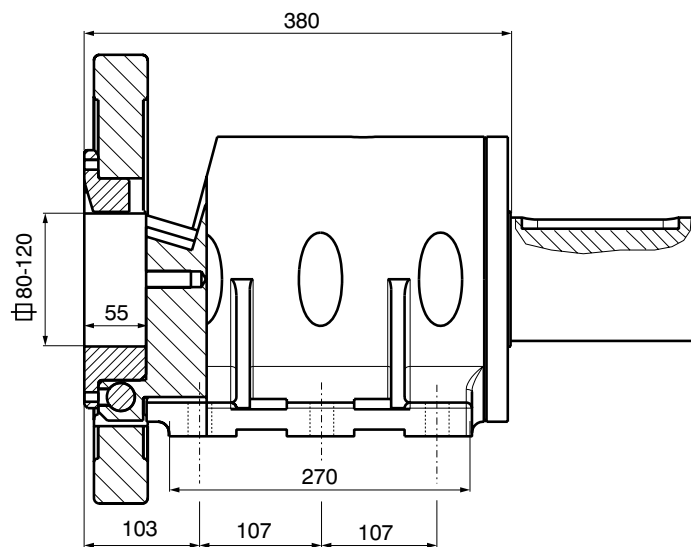
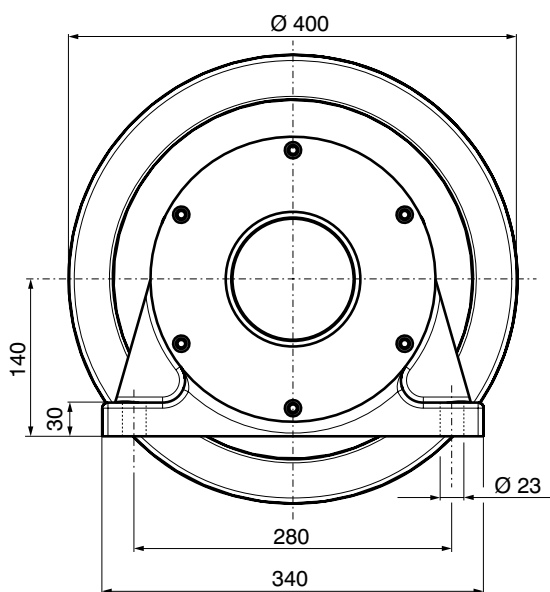
## Boschert-Chuck 80-120 type VT



STW 80-120  
chuck with shaft end



STO 80-120  
chuck without shaft end



Shaft end details page 2.73

2.71

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

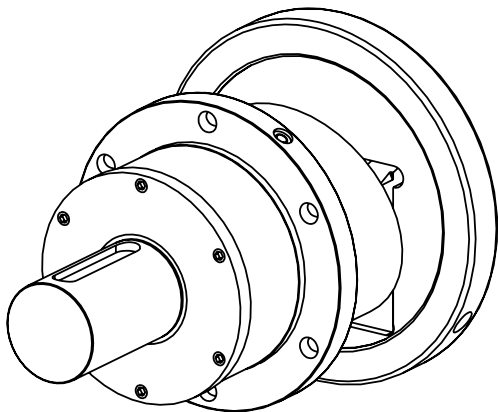
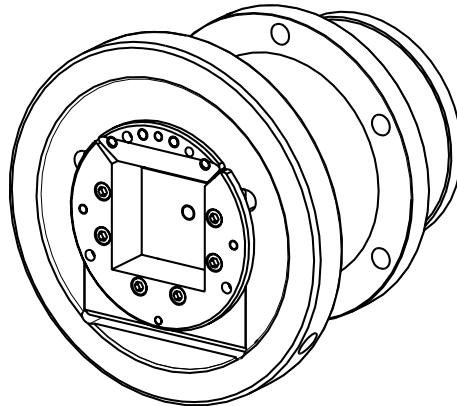
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

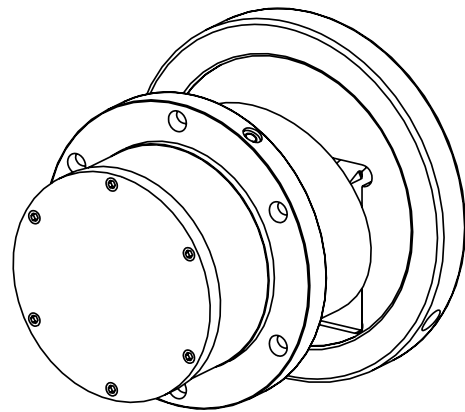
# Boschert-Chuck 80-120 flange mounted



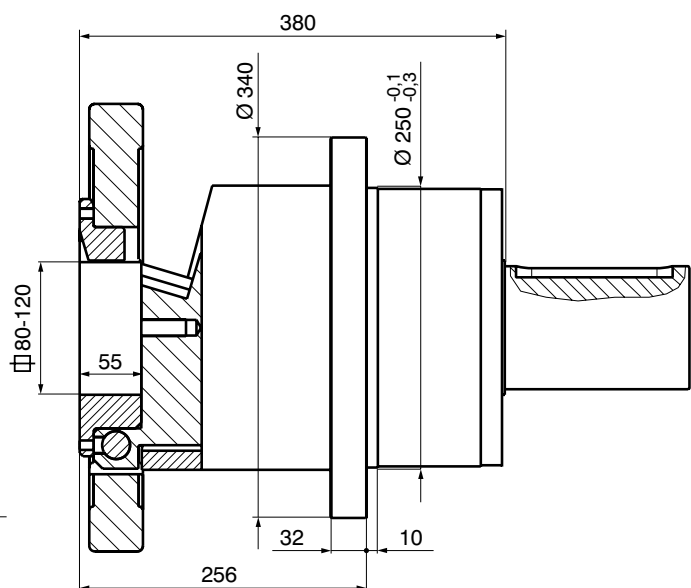
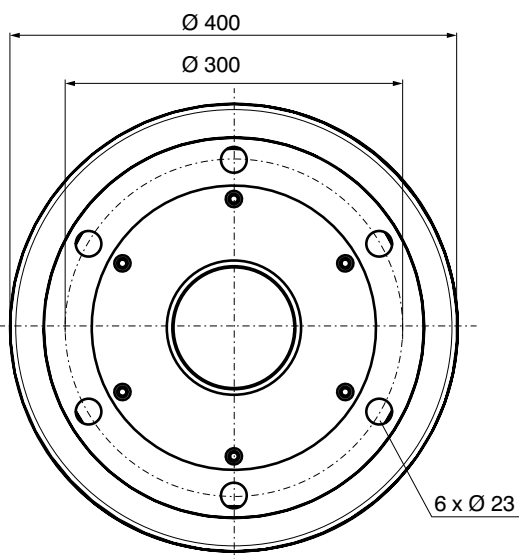
Boschert-Chuck 80-120 type VT



FLW 80-120  
chuck with shaft end



FLO 80-120  
chuck without shaft end

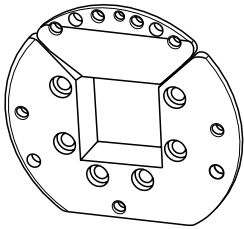


Shaft end details page 2.73

# Boschert-Chuck 80-120 options

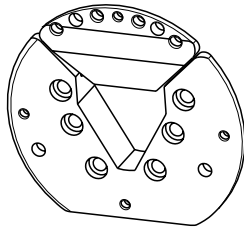


## VT-insert



VT 1

Info: 11.10

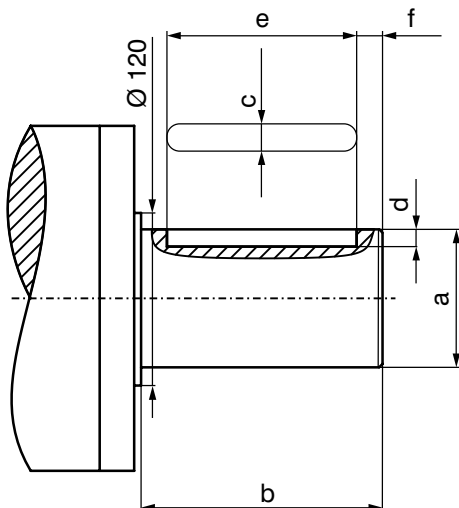


VT 6

Info: 11.11

Info  
11.20

## Shaft end



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

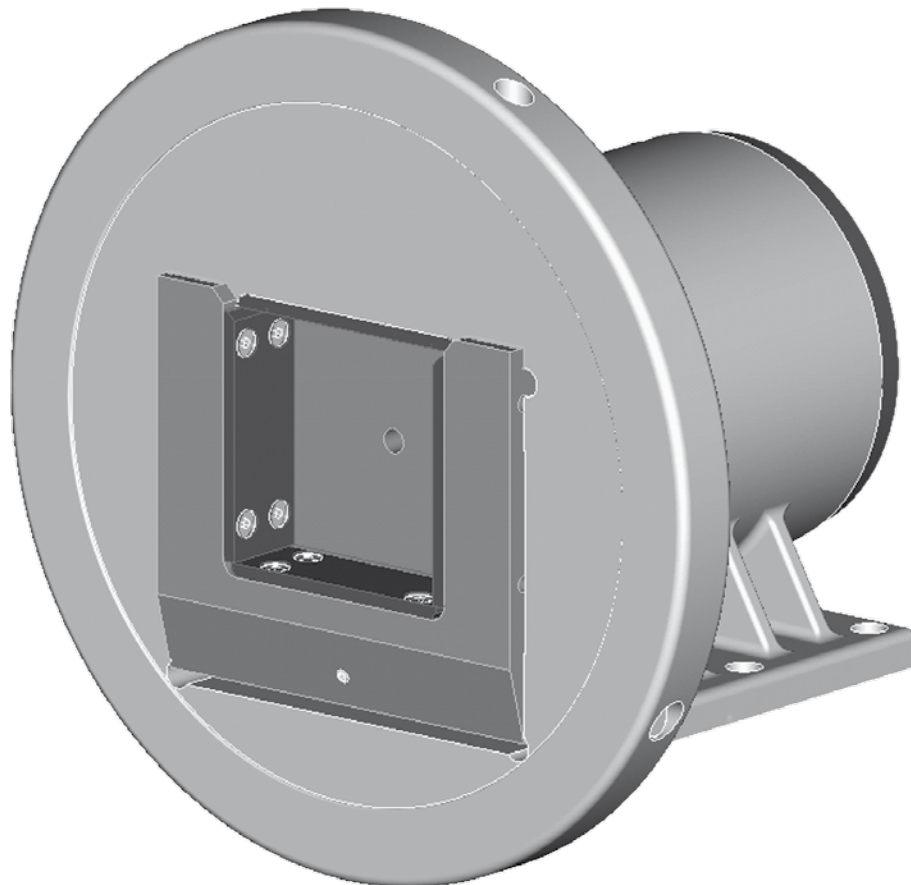
Shaft end per customer specification

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



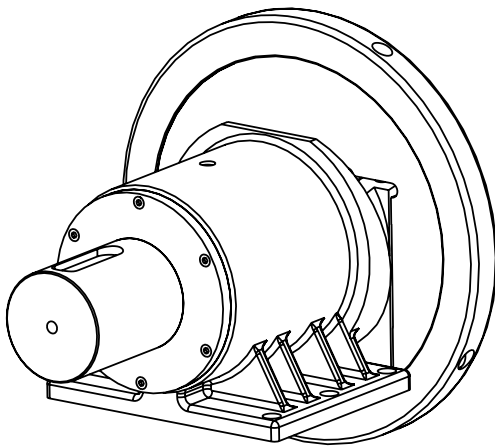
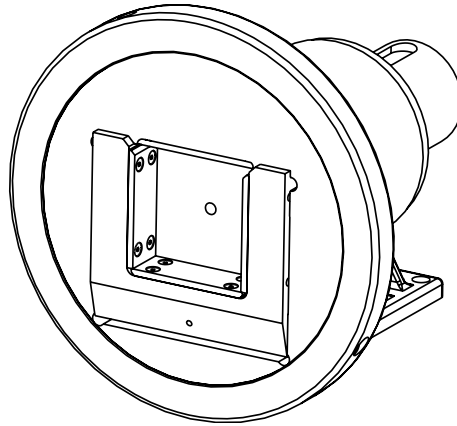
<b>Square bar:</b>	□	120 mm - 180 mm	(4.7244" - 7.0866")
<b>Standard square bar:</b>	□	180 mm	(7.0866")
<b>max. beam weight:</b>	□	22000 kg	(48500 lbs)
<b>max. torque:</b>	↻	20000 Nm	(14468 ft/lb)

		Info
<b>Journal shaft type:</b>	square bar	
<b>Shaft end:</b>	per customer specification	2.83

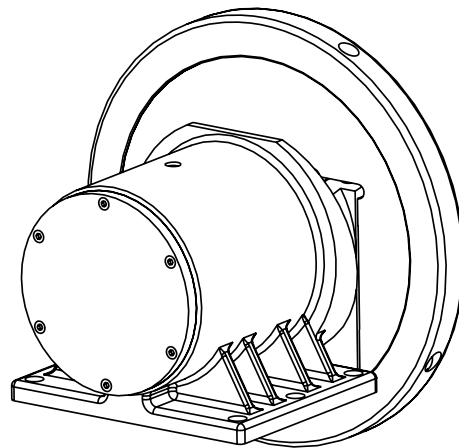
# Boschert-Chuck 120-180 foot mounted



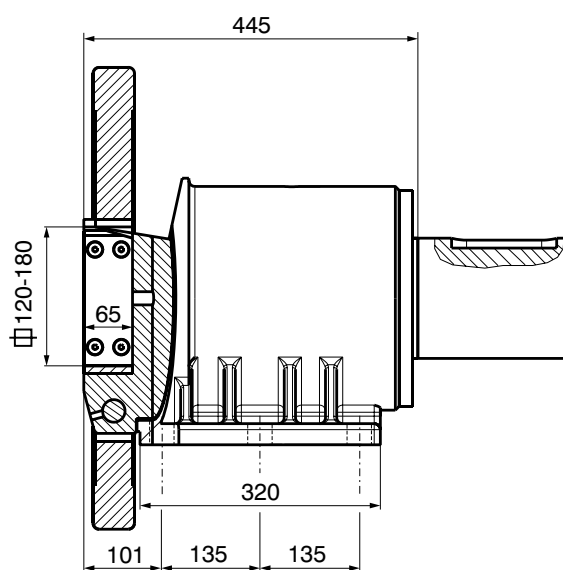
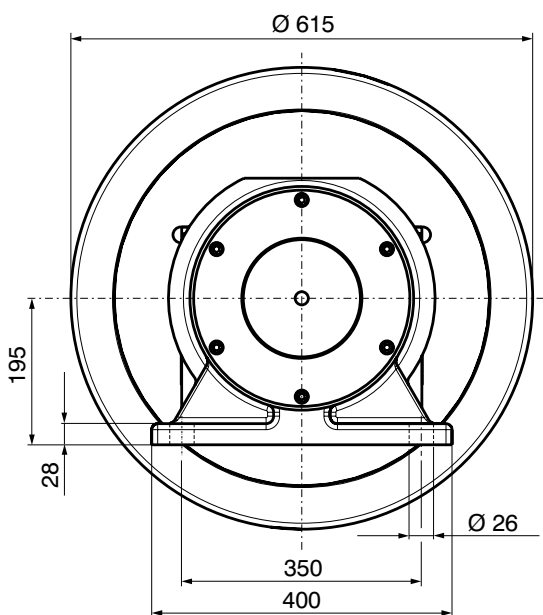
Boschert-Chuck 120-180 with wear plates



STW 120-180  
chuck with shaft end



STO 120-180  
chuck without shaft end



Shaft end details page 2.83

2.81

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D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

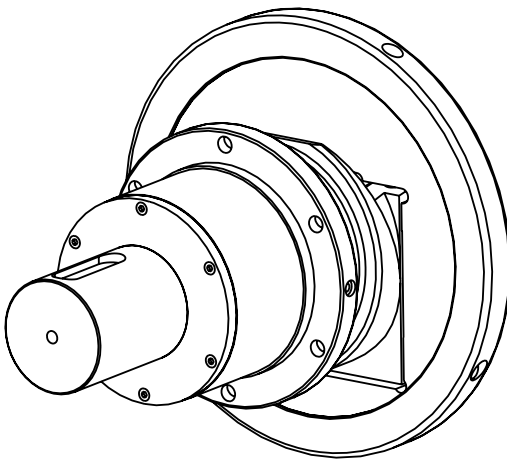
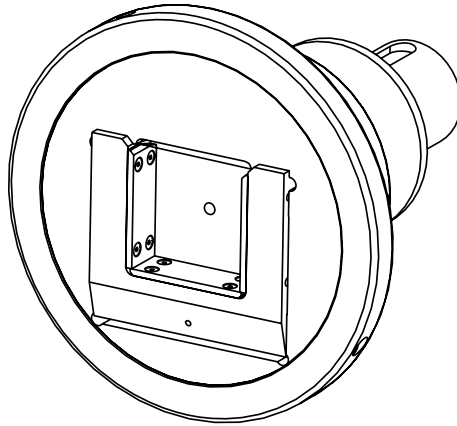
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

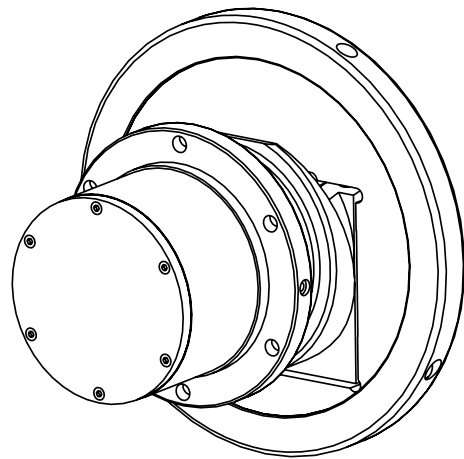
# Boschert-Chuck 120-180 flange mounted



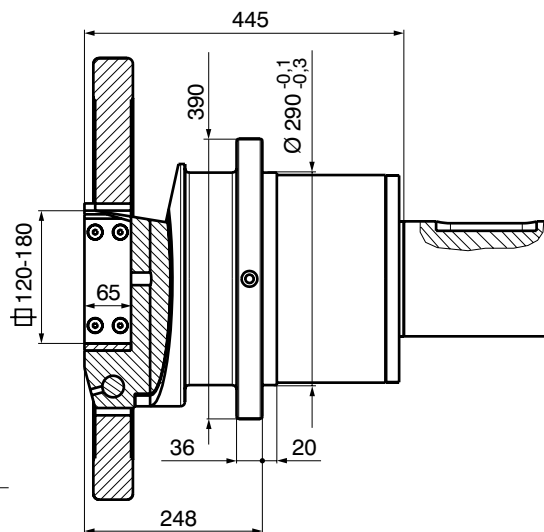
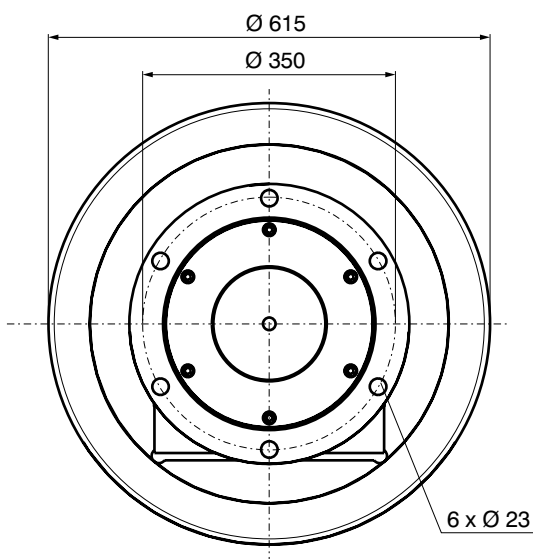
## Boschert-Chuck 120-180 with wear plates



**FLW 120-180**  
chuck with shaft end



**FLO 120-180**  
chuck without shaft end

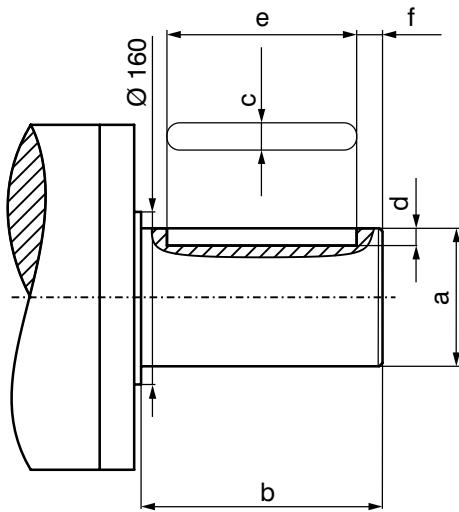


**Shaft end details page 2.83**

# Boschert-Chuck 120-180 options



## Shaft end



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

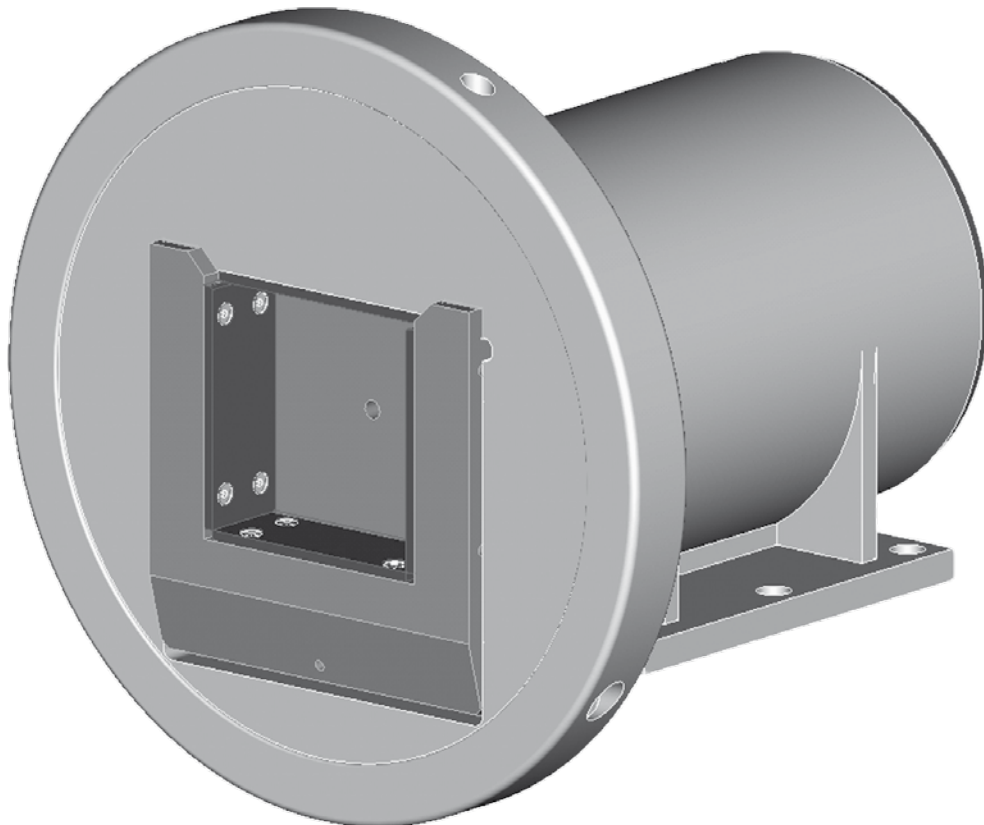
## Shaft end per customer specification

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 (6.6929" - 9.0551")
- Standard square bar:** □ 230 mm (9.551")
- max. beam weight:** □ 64000 kg □ (141090 lbs)
- max. torque:** ↻ 41000 Nm (29660 ft/lb)

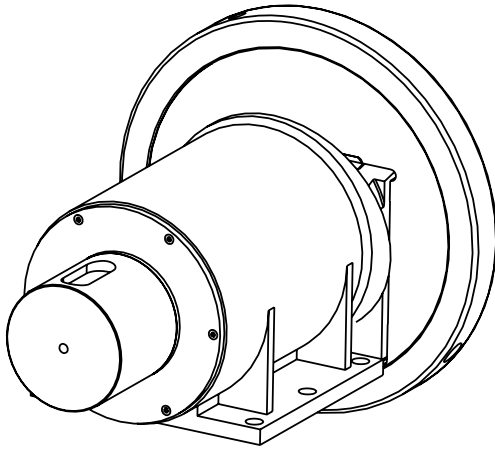
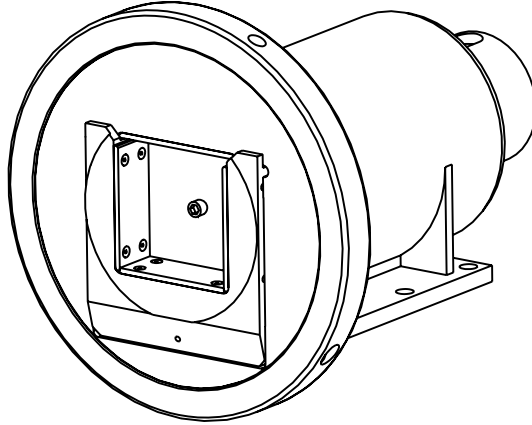
		Info
<b>Journal shaft type:</b>	square bar	
<b>Shaft end:</b>	per customer specification	2.93



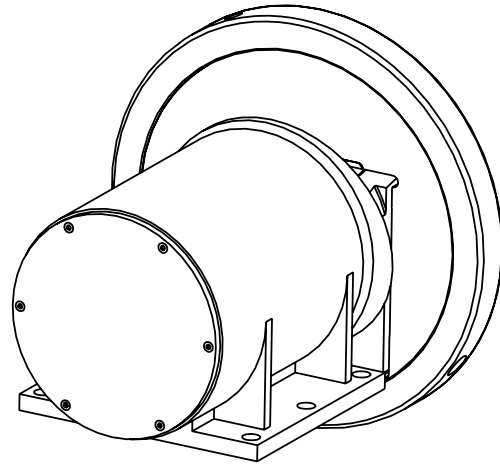
# Boschert-Chuck 170-230 foot mounted



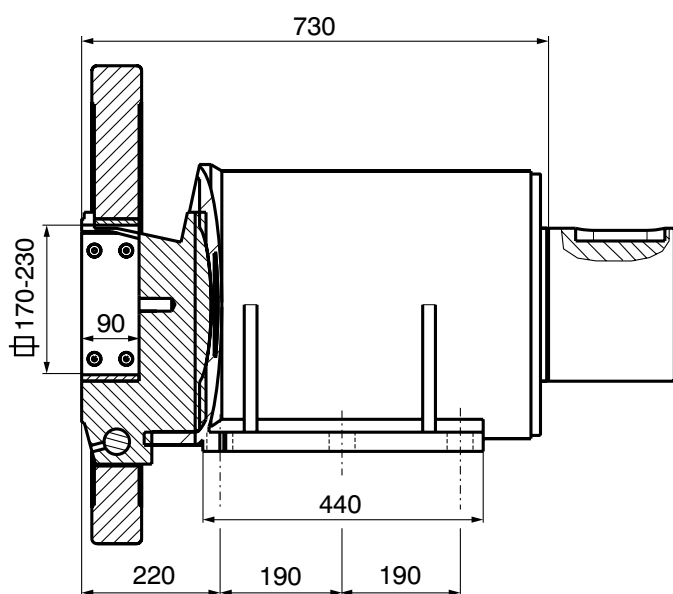
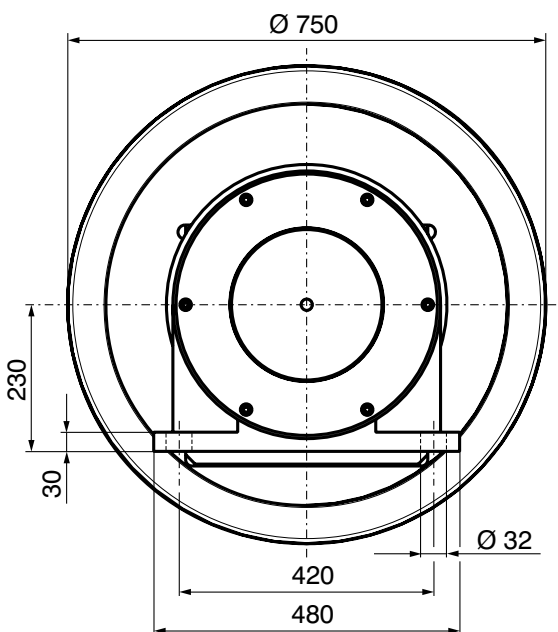
## Boschert-Chuck 170-230 with wear plates



STW 170-230  
chuck with shaft end



STO 170-230  
chuck without shaft end

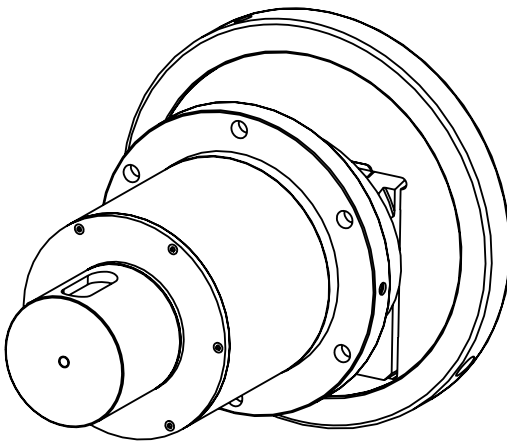
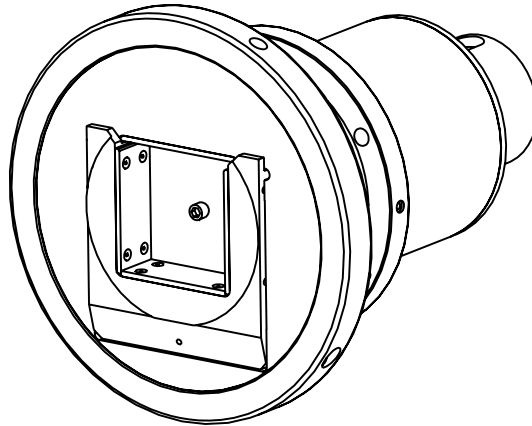


Shaft end details page 2.93

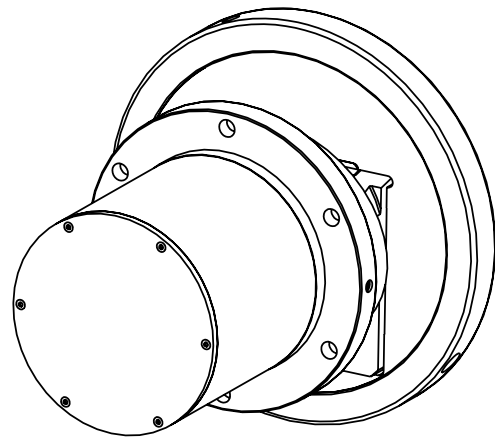
# Boschert-Chuck 170-230 flange mounted



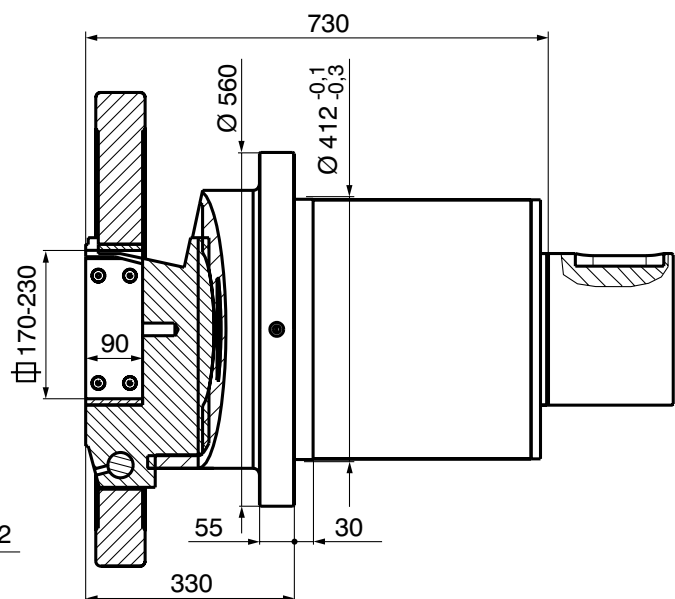
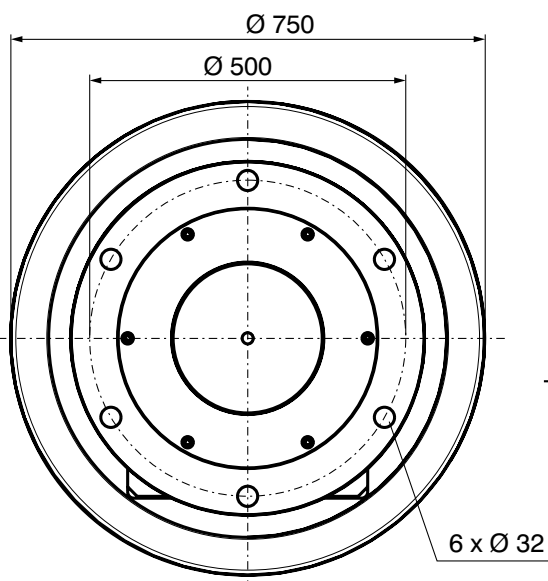
Boschert-Chuck 170-230 with wear plates



FLW 170-230  
chuck with shaft end



FLO 170-230  
chuck without shaft end

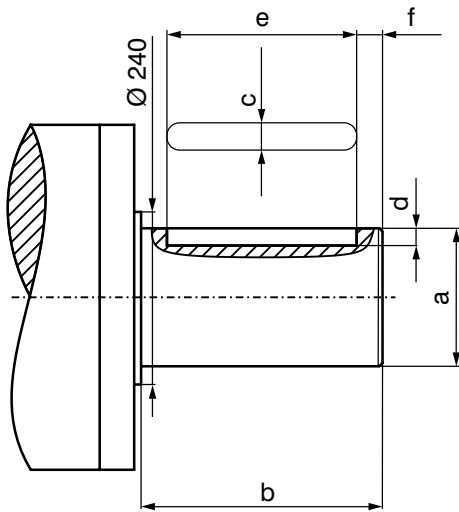


Shaft end details page 2.93

# Boschert-Chuck 170-230 options



## Shaft end

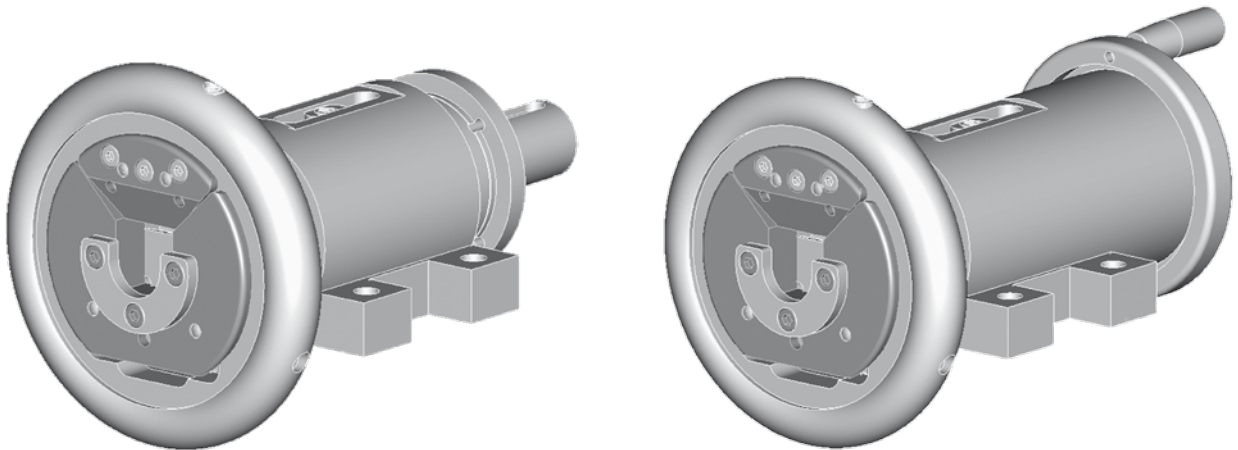


Max. shaft-dia.:  $\text{Ø } 240$  mm  
(special shaft without stop)

Shaft end per customer specification

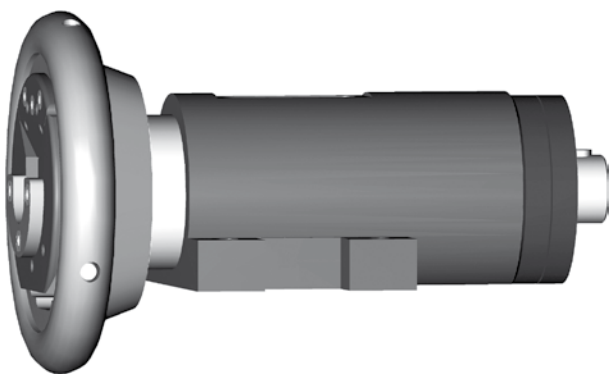
<b>a =</b>		<b>mm</b>
<b>b =</b>		<b>mm</b>
<b>c =</b>		<b>mm</b>
<b>d =</b>		<b>mm</b>
<b>e =</b>		<b>mm</b>
<b>f =</b>		<b>mm</b>

## 3.0 Overview Sliding-Chucks



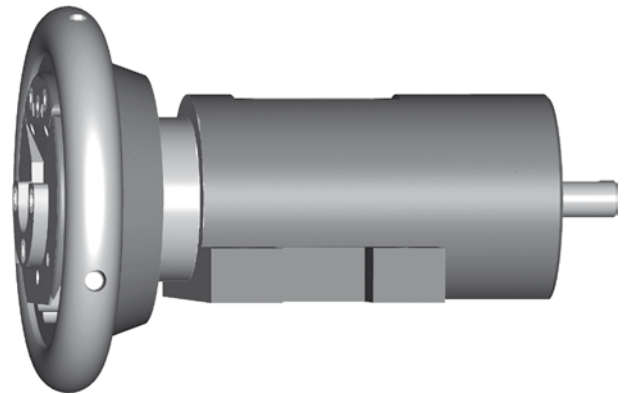
Sliding-Chuck

Info: 3.00



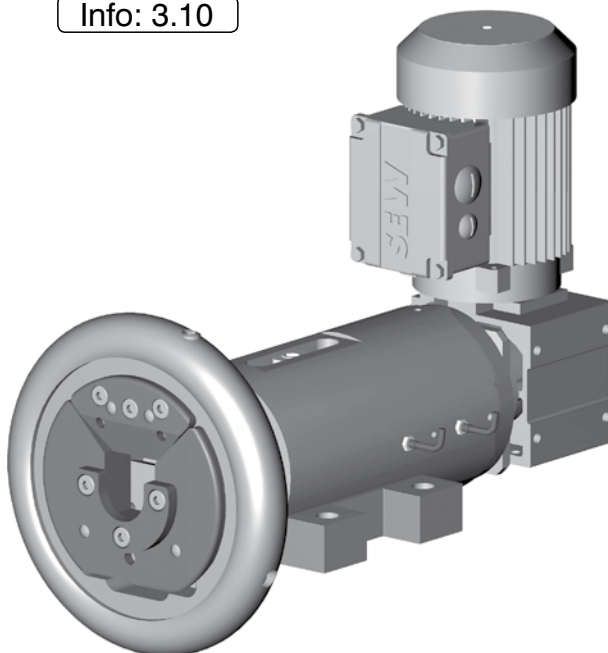
Sliding-Chuck with axial fixed drive

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 to 40-50 SKO**

**Boschert** foot mounted chuck without shaft end

**22-30 to 40-50 SKW**

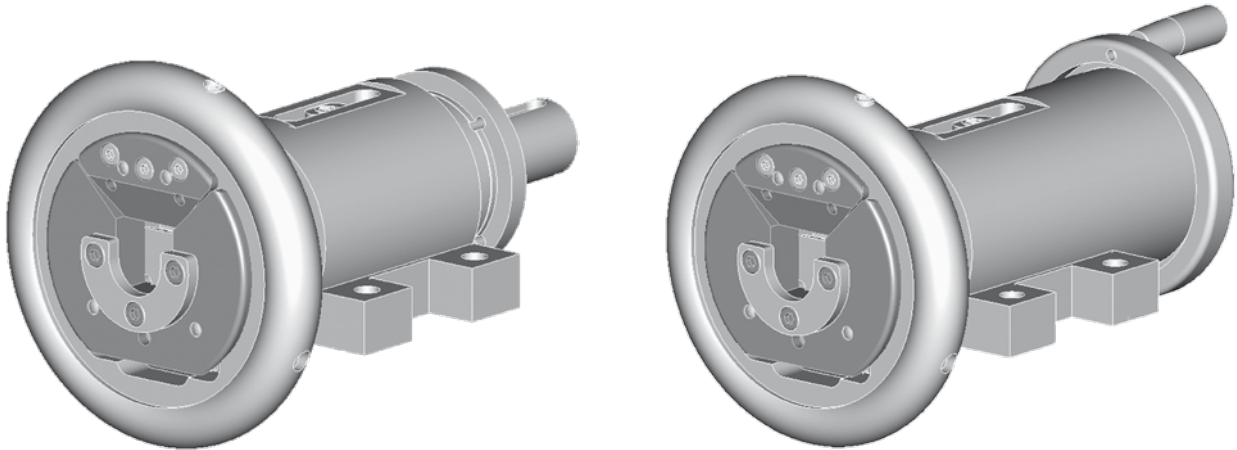
**Boschert** foot mounted chuck with shaft end

**22-30 to 40-50 SKOF**

**Boschert** flange mounted chuck without shaft end

**22-30 to 40-50 SKWF**

**Boschert** flange mounted chuck with shaft end



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

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

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
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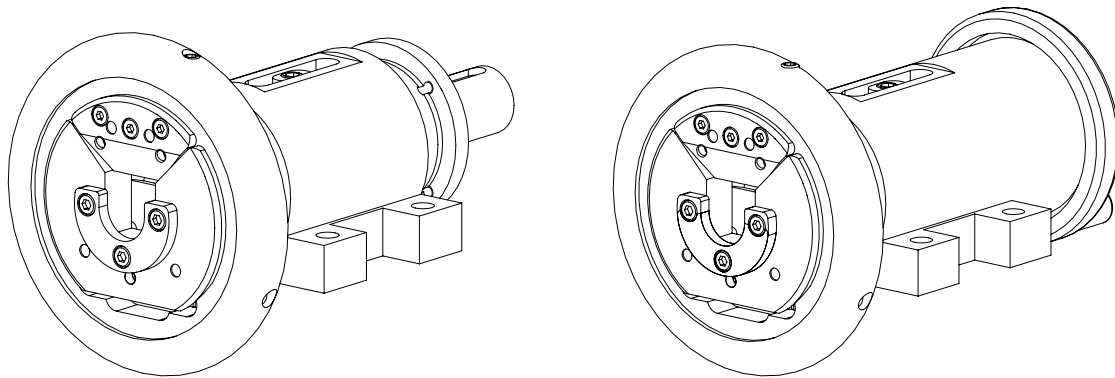
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Fax: +49 (0) 7621 / 5518 4

**3.00**

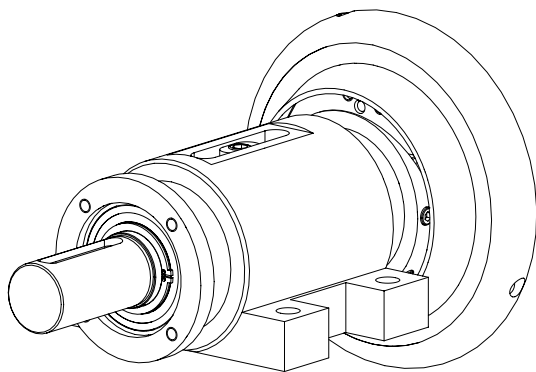
# Boschert-Sliding-Chuck foot mounted



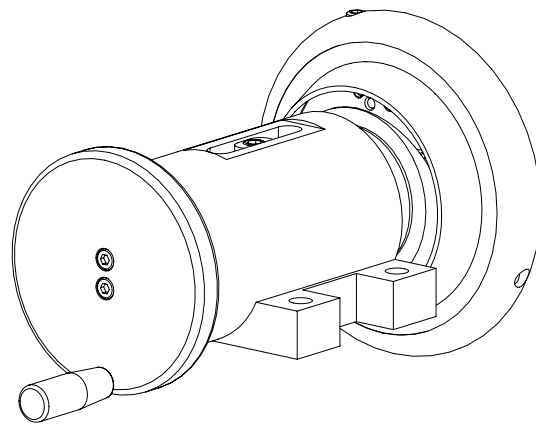
## Boschert-Sliding-Chuck type VT



**SKW**  
chuck with shaft end

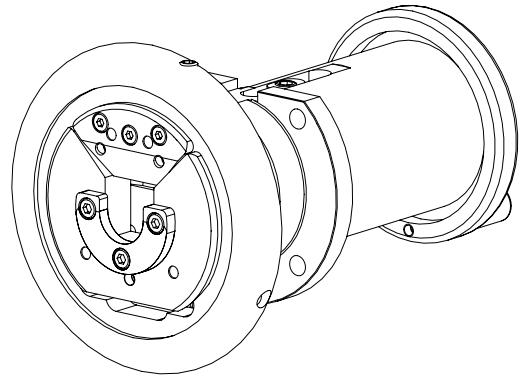
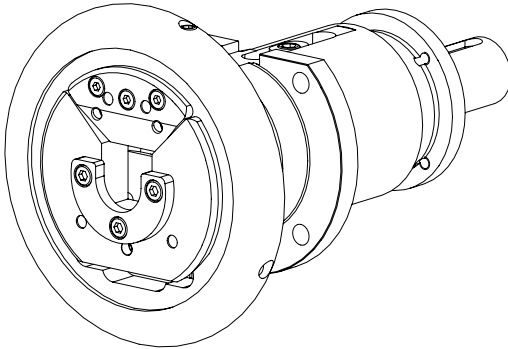


**SKO**  
chuck without shaft end

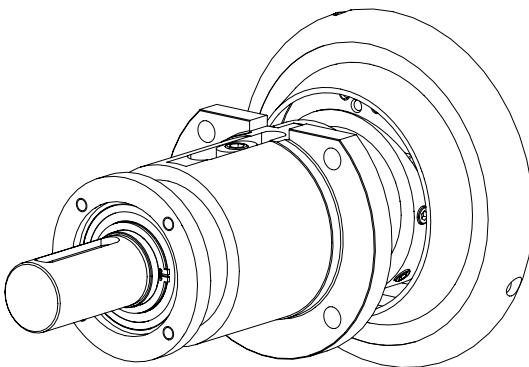


# Boschert-Sliding-Chuck flange mounted

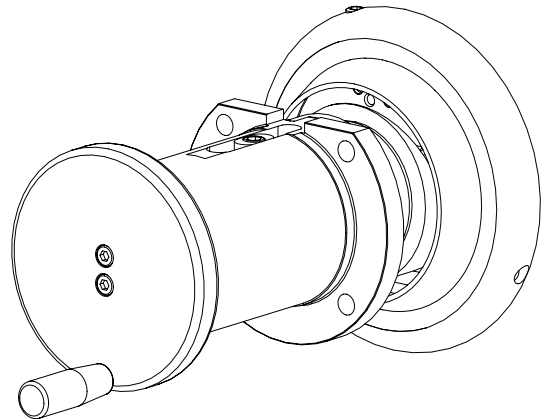
## Boschert-Sliding-Chuck type VT



## SKWF chuck with shaft end



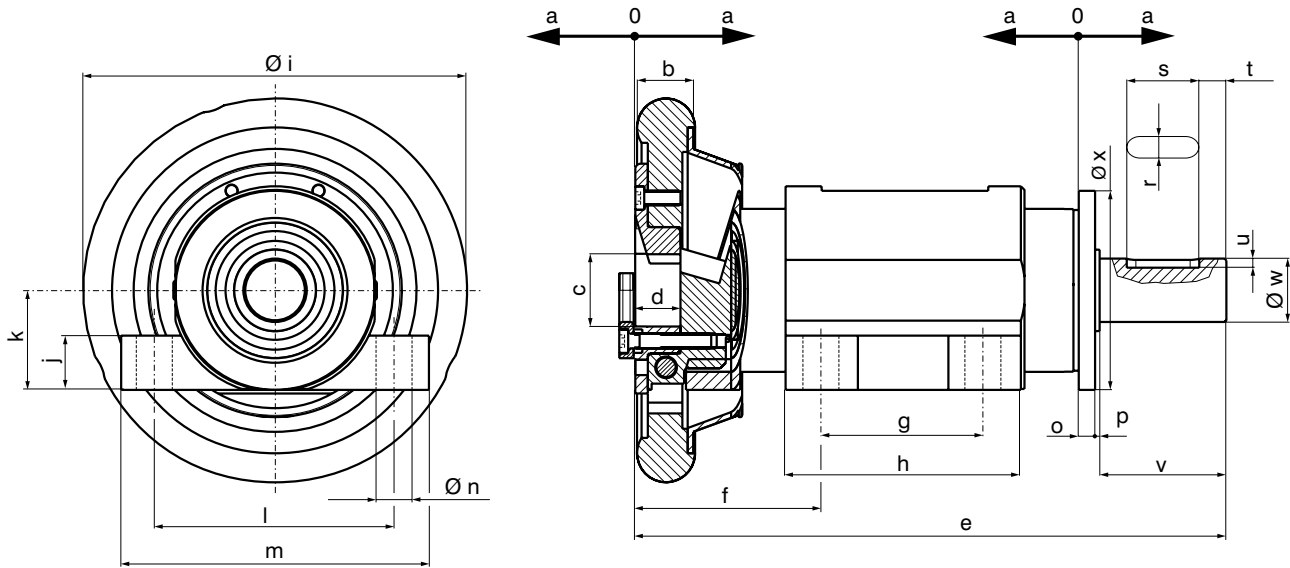
## SKOF chuck without shaft end



# Boschert-Sliding-Chuck dim. sheet foot mounted chuck



## SKW Boschert foot mounted chuck with shaft end



SW = adjustment

Info  
3.80

SW	22-30		30-40		40-50	
	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	427.5
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	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")

3.03

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
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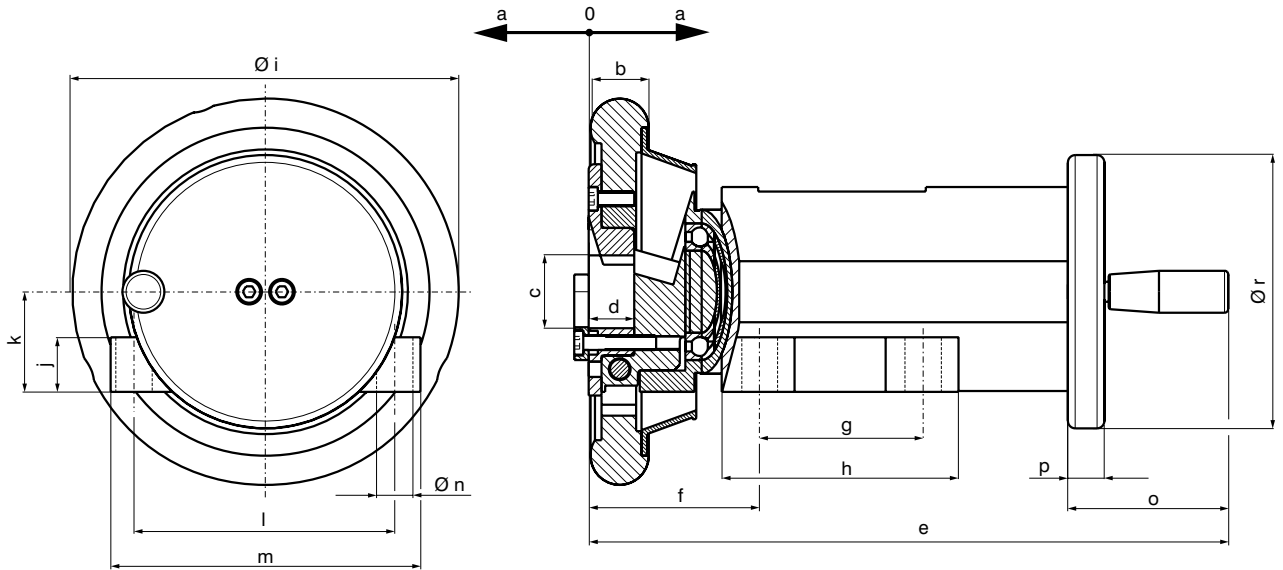
Changes reserved (b)



# Boschert-Sliding-Chuck dim. sheet foot mounted chuck



## SKO Boschert foot mounted chuck without shaft end



SW = adjustment

Info  
3.80

SW	22-30		30-40		40-50	
	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
<b>22-30</b>	800 kg (1760 lbs)	180 Nm (130 ft/lb)	22-30 mm (0.8661" - 1.1811")
<b>30-40</b>	1600 kg (3530 lbs)	350 Nm (250 ft/lb)	30-40 mm (1.1811" - 1.5748")
<b>40-50</b>	2800 kg (6170 lbs)	1100 Nm (800 ft/lb)	40-50 mm (1.5748" - 1.9685")

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
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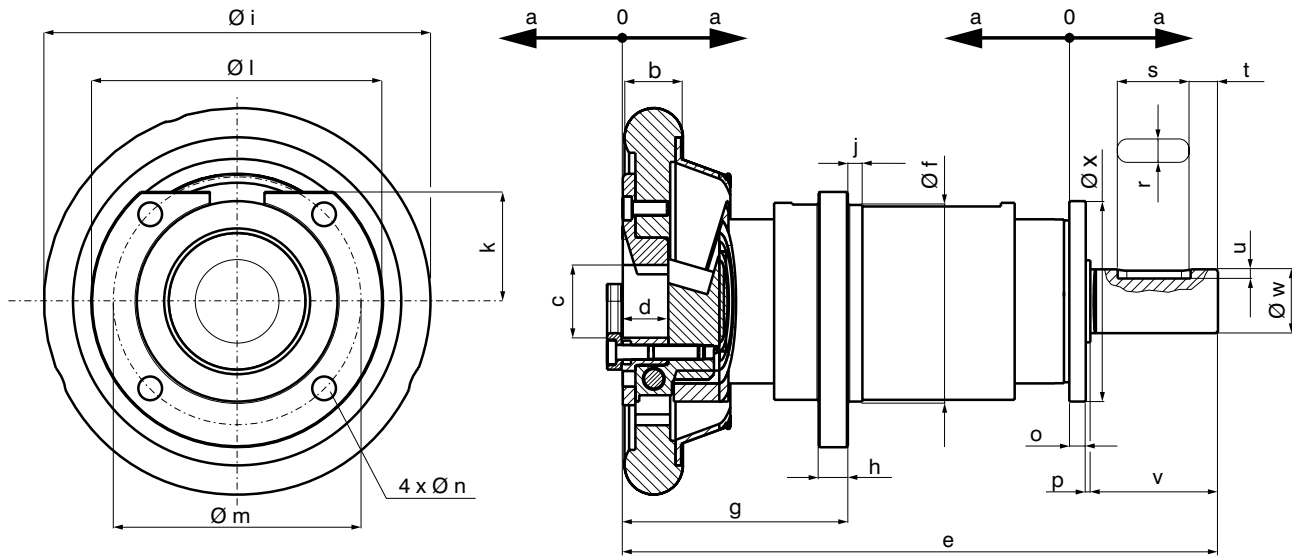
**3.04**

# Boschert-Sliding-Chuck

## dim. sheet flange mounted chuck



### SKWF Boschert flange mounted chuck with shaft end



SW = adjustment

Info  
3.80

SW	22-30		30-40		40-50	
	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")

3.05

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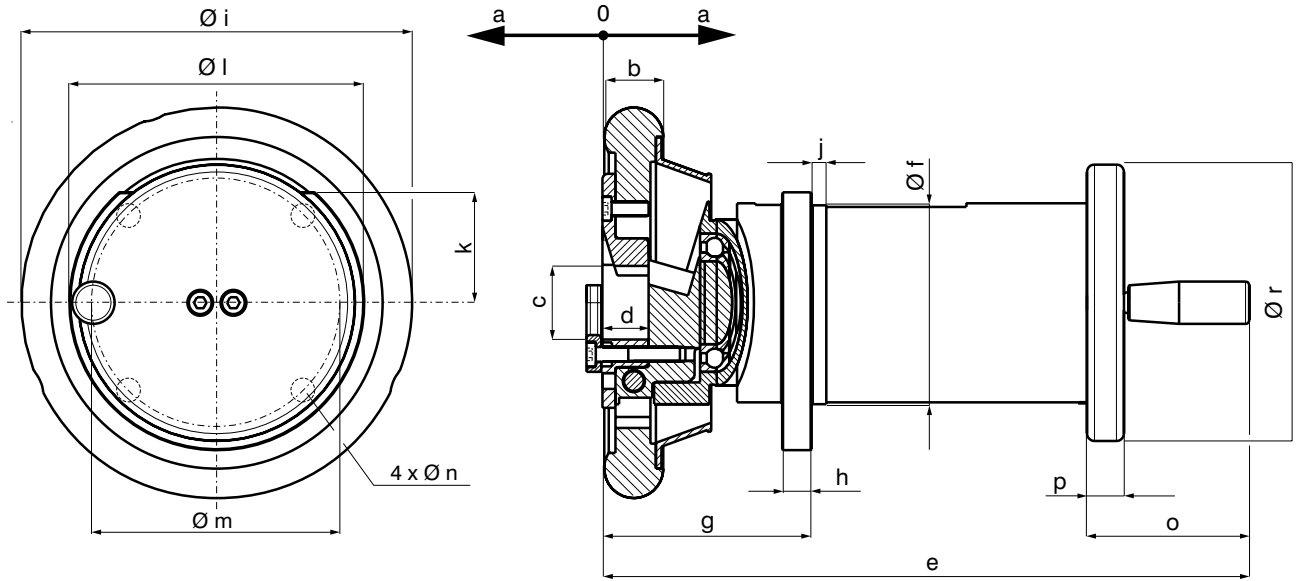
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Changes reserved (c)

# Boschert-Sliding-Chuck dim. sheet flange mounted chuck



## SKOF Boschert flange mounted chuck without shaft end



SW = adjustment

Info  
3.80

SW	22-30		30-40		40-50	
	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	120	120	135	135	170	170
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
<b>22-30</b>	800 kg (1760 lbs)	180 Nm (130 ft/lb)	22-30 mm (0.8661" - 1.1811")
<b>30-40</b>	1600 kg (3530 lbs)	350 Nm (250 ft/lb)	30-40 mm (1.1811" - 1.5748")
<b>40-50</b>	2800 kg (6170 lbs)	1100 Nm (800 ft/lb)	40-50 mm (1.5748" - 1.9685")

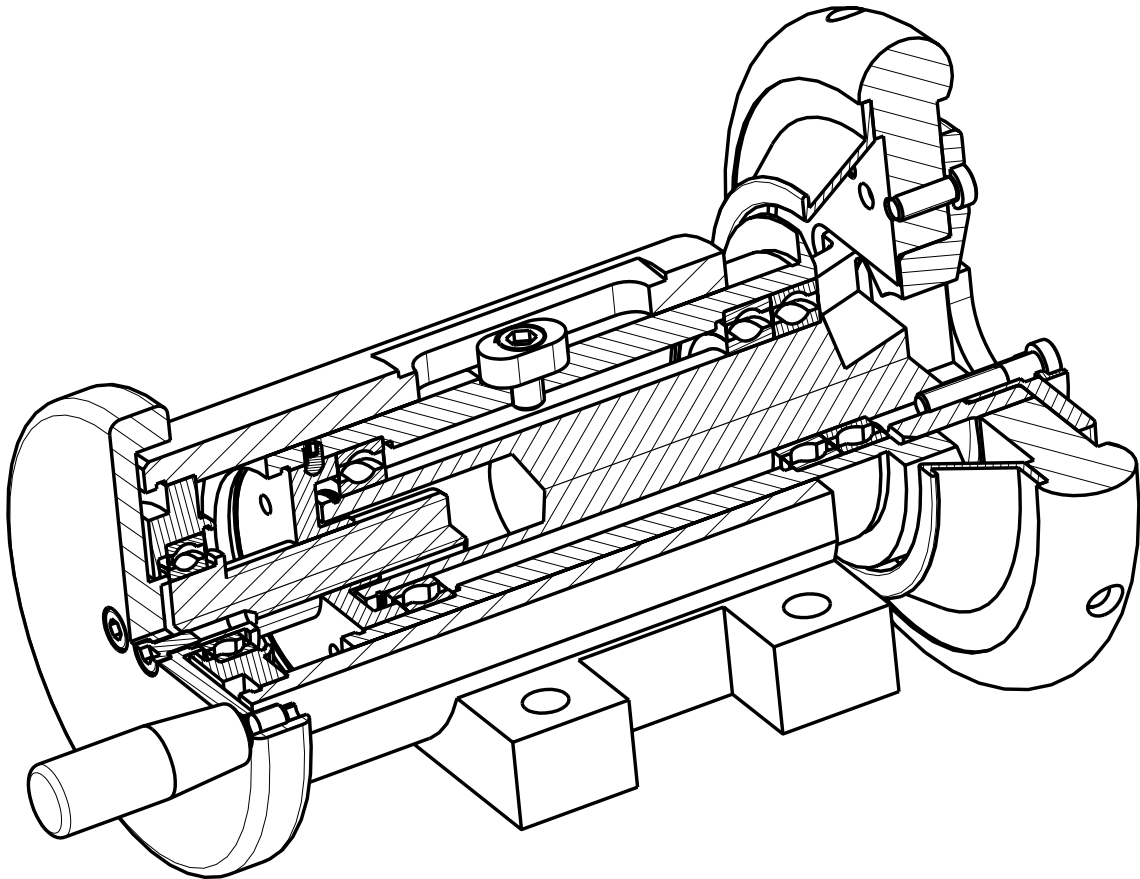
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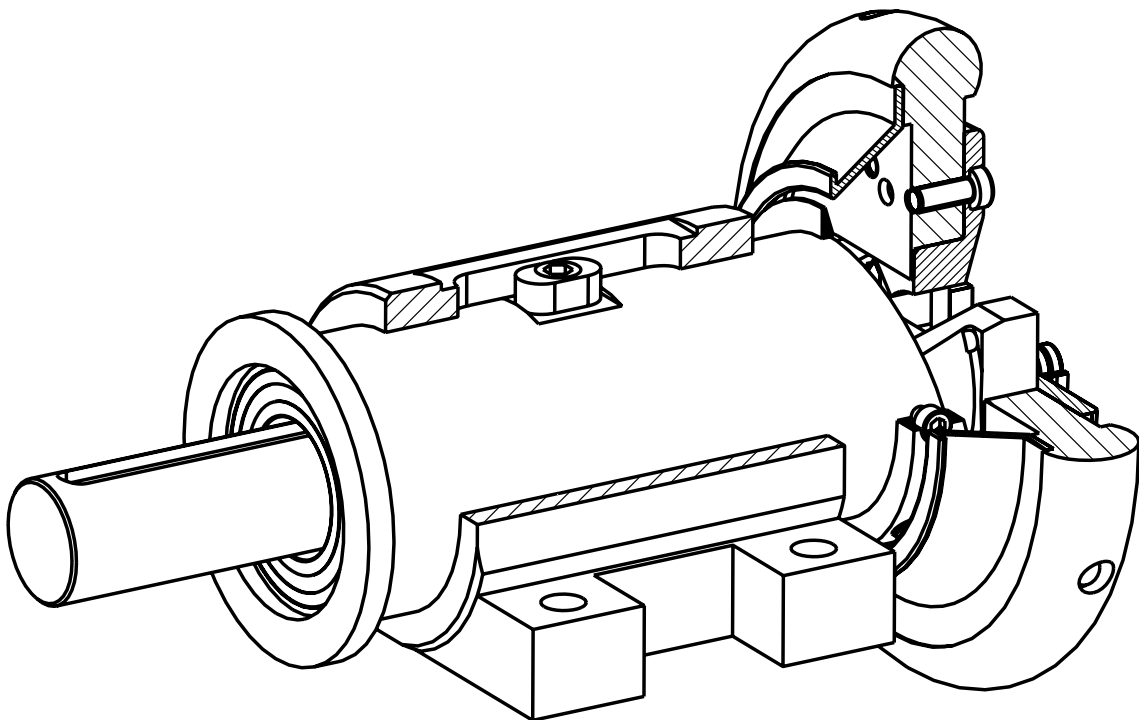
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**3.06**

# Construction Sliding-Chuck

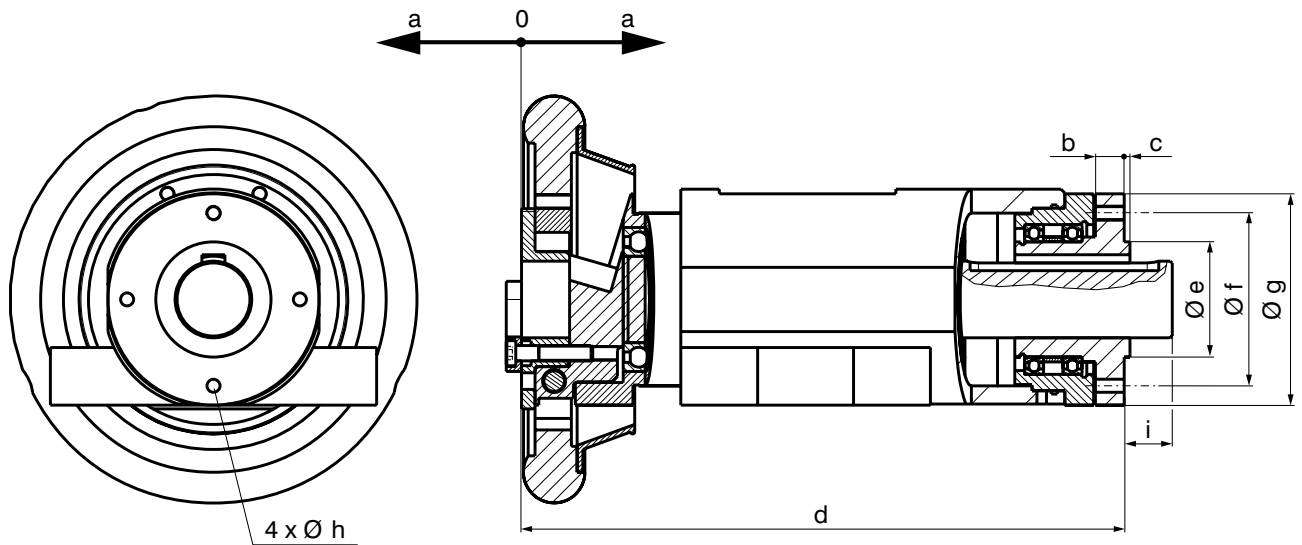


SKO foot mounted chuck without shaft end

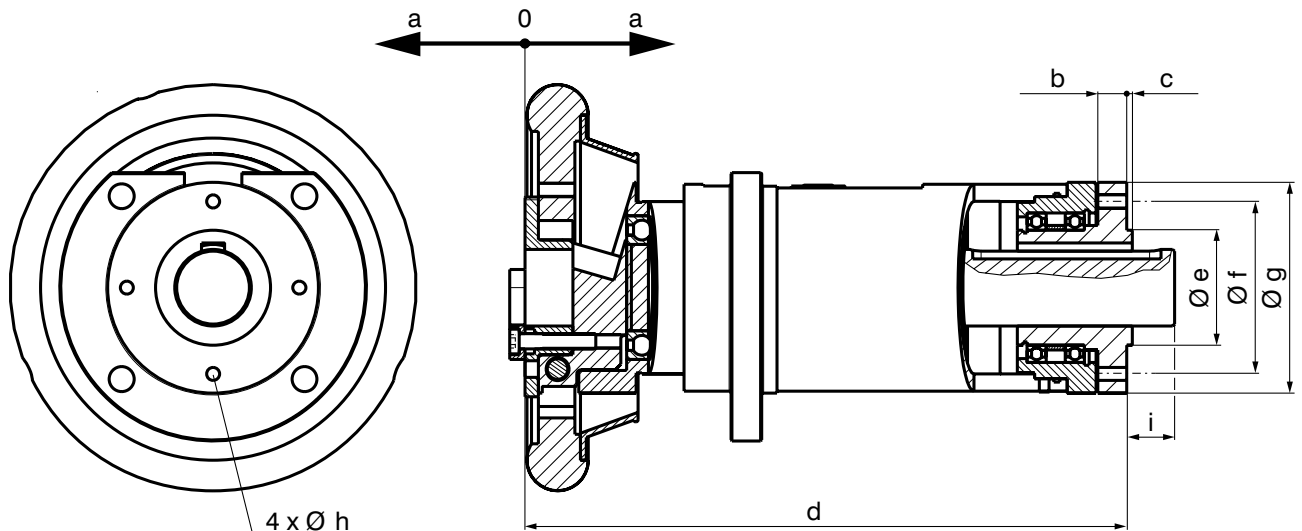


SKW foot mounted chuck with shaft end

# Boschert-Sliding-Chuck with axial fixed drive



SKW foot mounted chuck



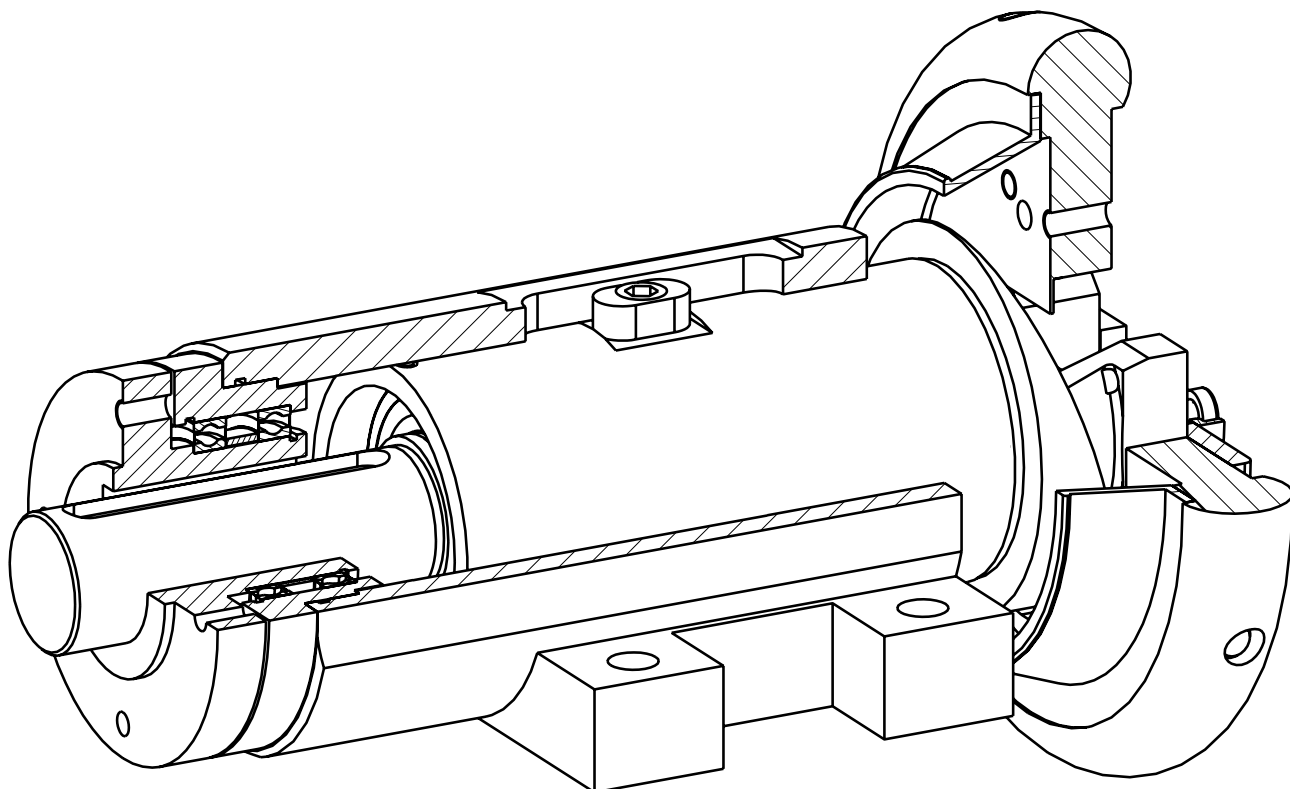
SKWF flange mounted chuck  
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	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	M 8	M 8	M 8	M 8	M 10	M 10
i	30	50	25	50	31	56

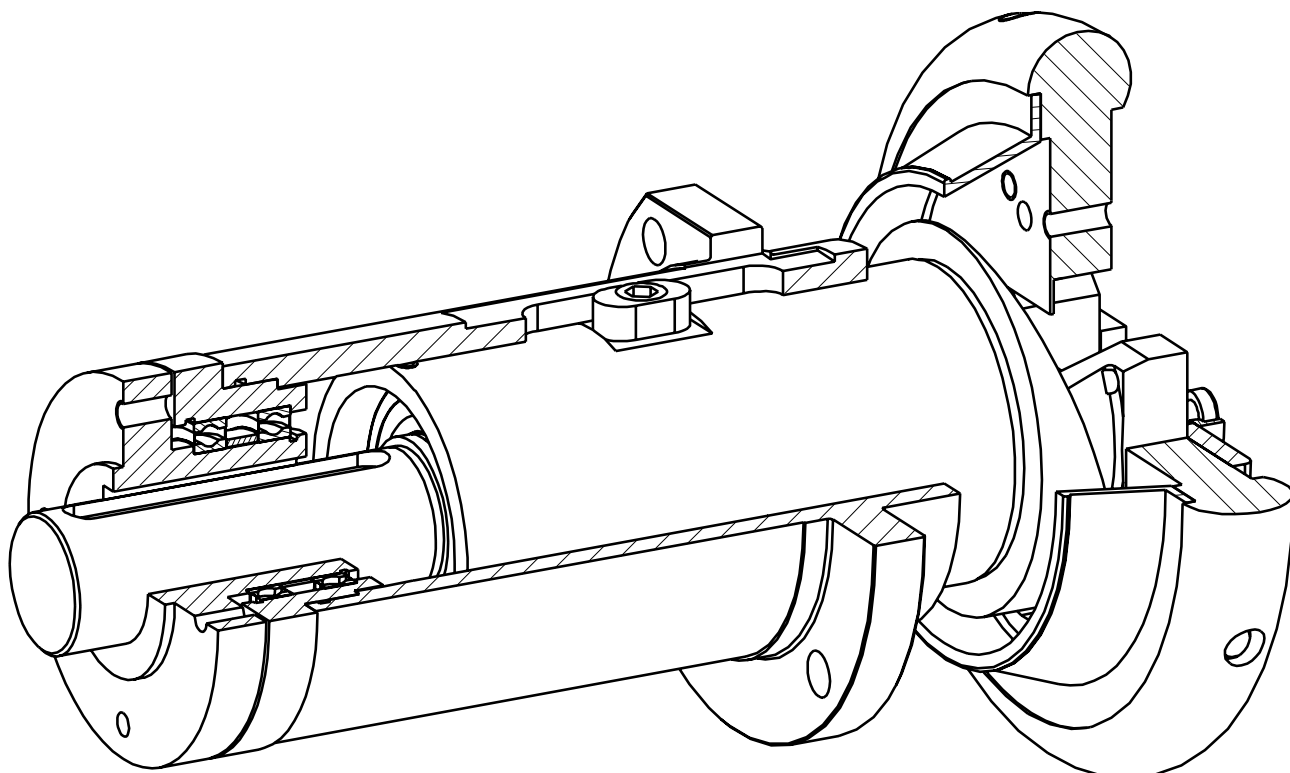
for dimensions not shown please see page 3.04 / 3.06

	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

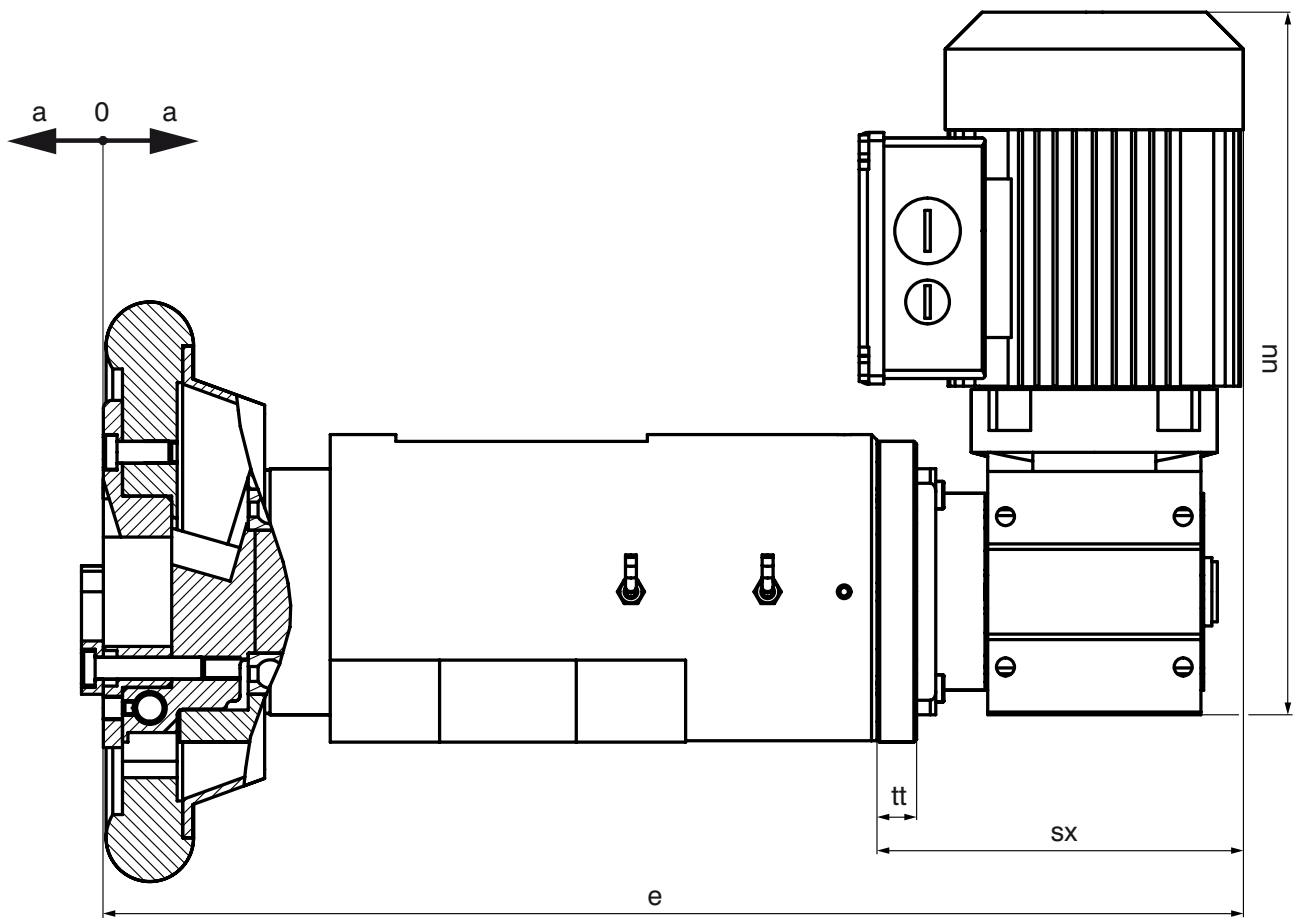


SKW foot mounted chuck



SKWF flange mounted chuck

# Boschert-Sliding-Chuck with motorized adjustment



SKO foot mounted chuck

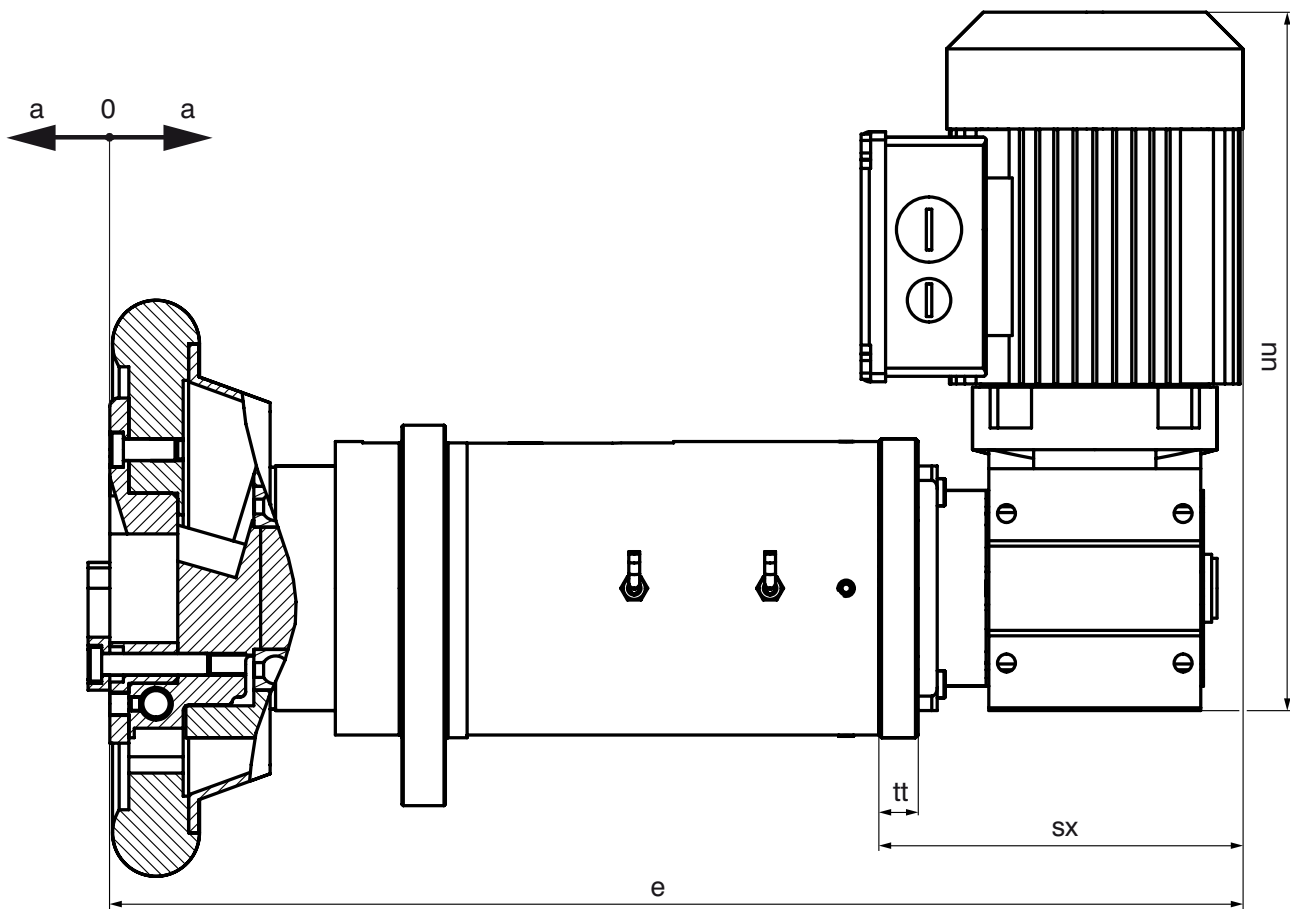
SW = adjustment

	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
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
<b>22-30</b>	800 kg (1760 lbs)	180 Nm (130 ft/lb)	22-30 mm (0.8661" - 1.1811")
<b>30-40</b>	1600 kg (3530 lbs)	350 Nm (250 ft/lb)	30-40 mm (1.1811" - 1.5748")
<b>40-50</b>	2800 kg (6170 lbs)	1100 Nm (800 ft/lb)	40-50 mm (1.5748" - 1.9685")

# 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")

3.21

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

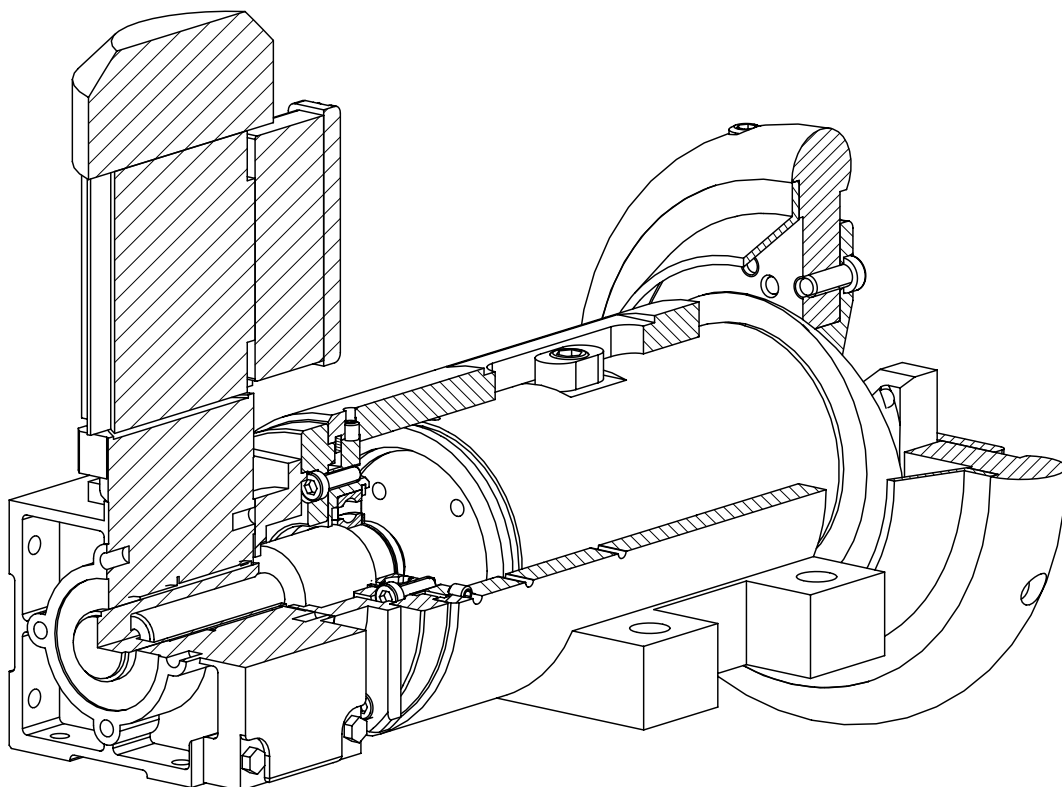
infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

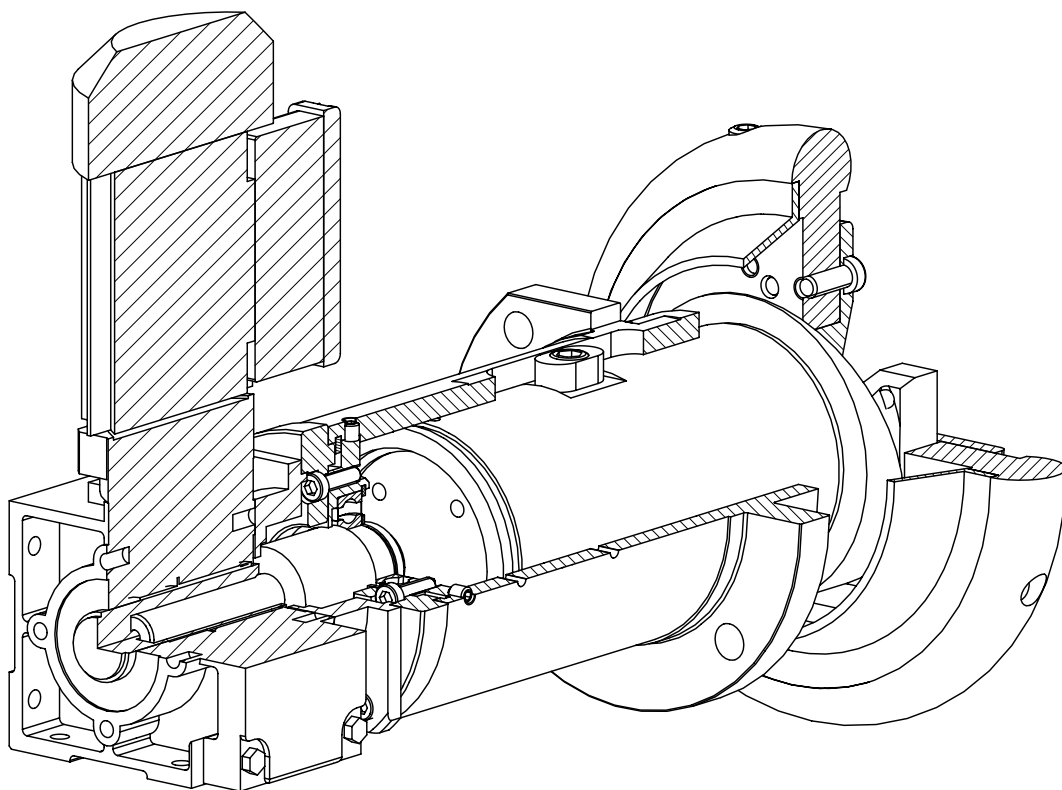
Changes reserved (a)



# Construction Sliding-Chuck with motorized adjustment

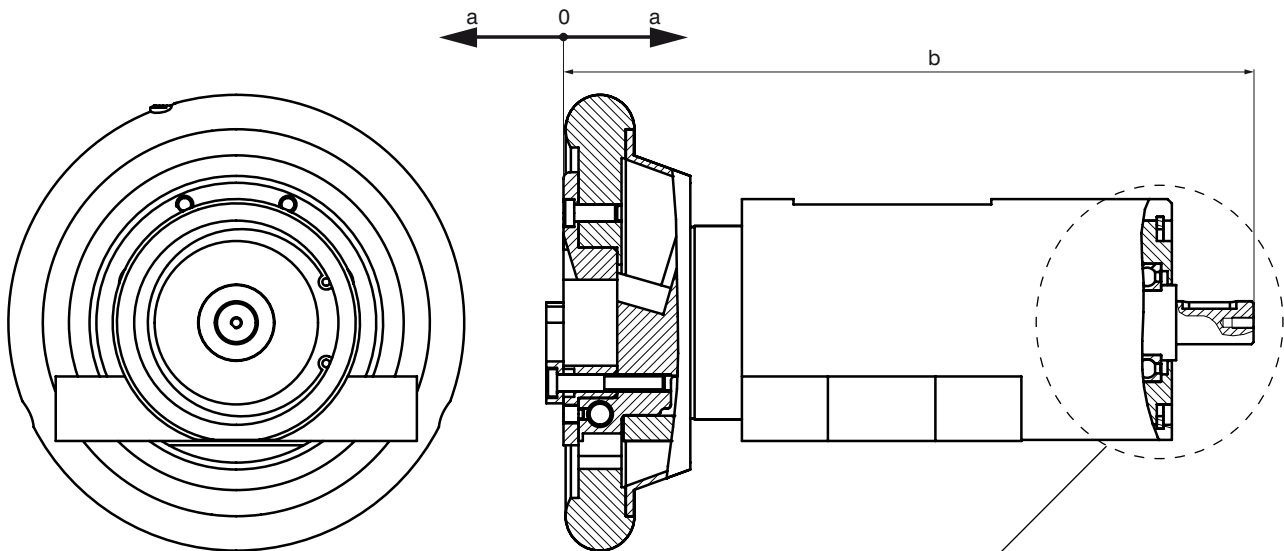


SKO foot mounted chuck

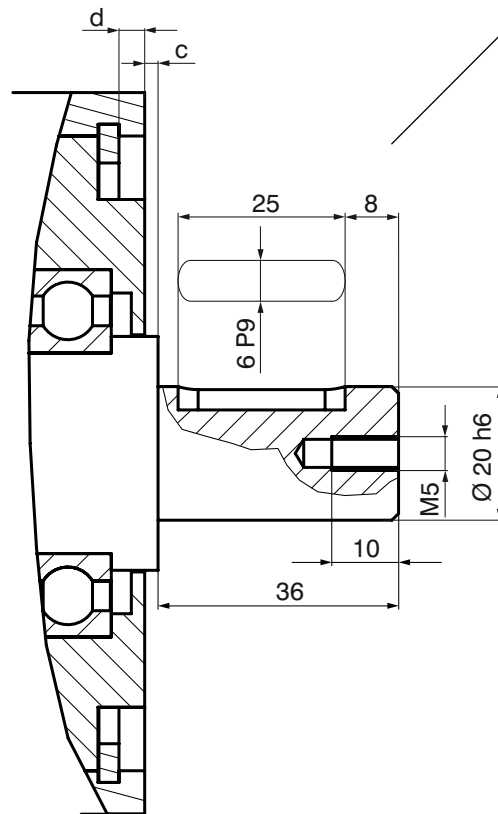


SKOF flange mounted chuck

# Boschert-Sliding-Chuck for motorized adjustment



SKO foot mounted chuck



SW = adjustment

	22-30		30-40		40-50	
<b>SW</b>	<b>50</b>	<b>100</b>	<b>50</b>	<b>100</b>	<b>50</b>	<b>100</b>
<b>a</b>	25	50	25	50	25	50
<b>b</b>	317	394	321	396	327	402
<b>c</b>	2	2	2	2	1	1
<b>d</b>	3.5	3.5	4	4	3.5	3.5

for dimensions not shown please see page 3.04

**3.30**

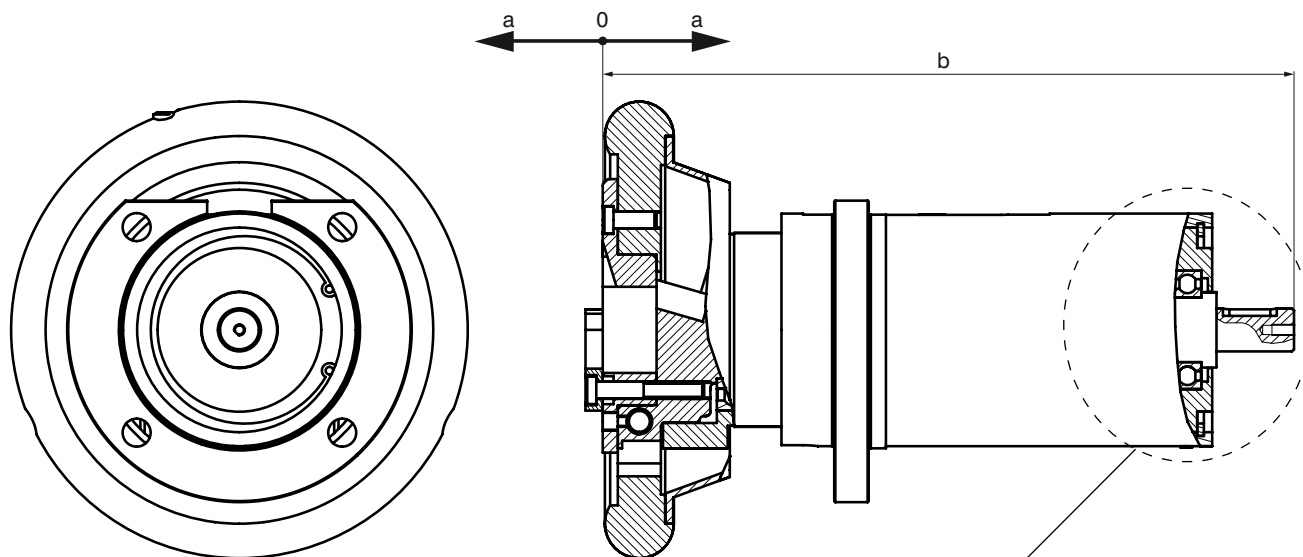
Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

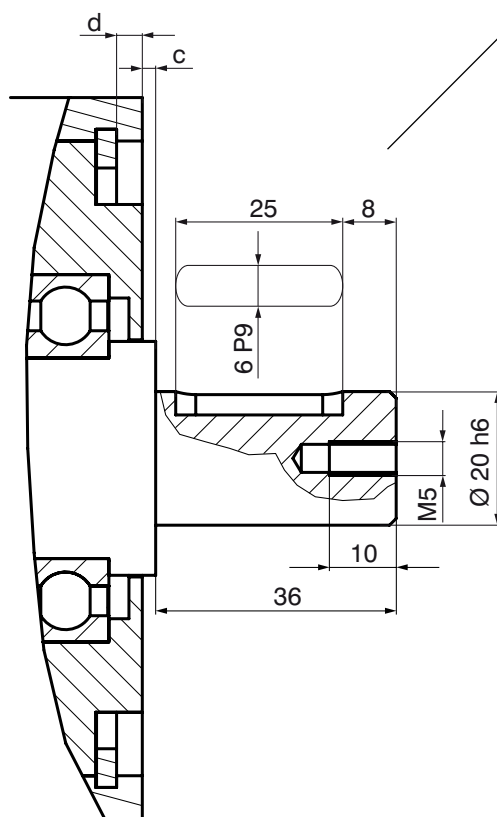
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

# Boschert-Sliding-Chuck for motorized adjustment



SKOF flange mounted chuck

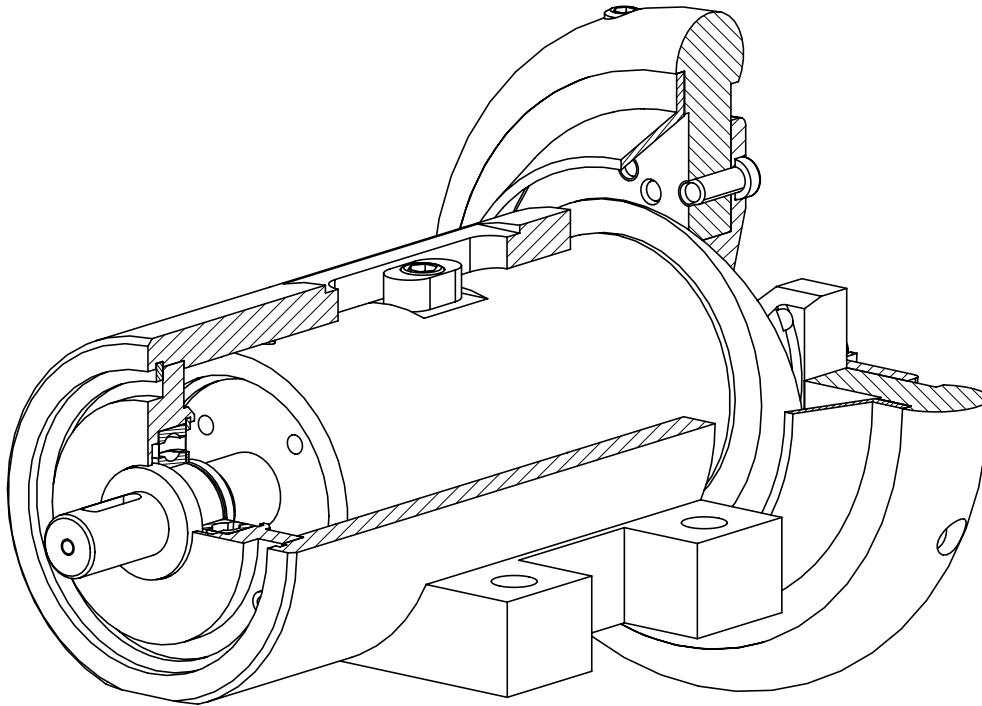


SW = adjustment

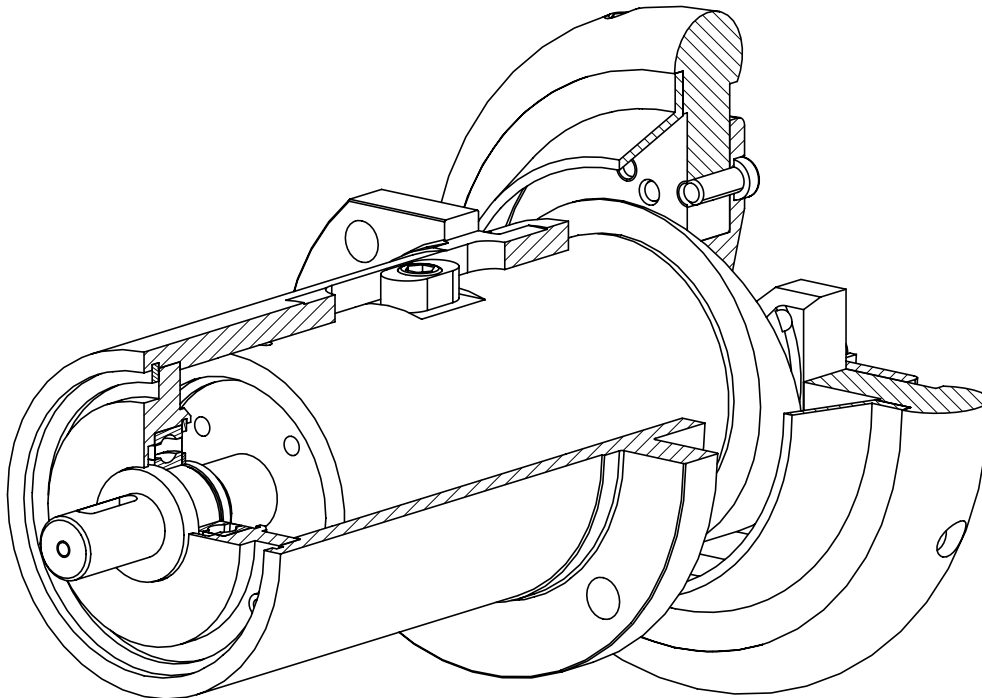
	22-30		30-40		40-50	
SW	50	100	50	100	50	100
a	25	50	25	50	25	50
b	317	394	321	396	327	402
c	2	2	2	2	1	1
d	3.5	3.5	4	4	3.5	3.5

for dimensions not shown please see page 3.06

# Construction Sliding-Chuck for motorized adjustment



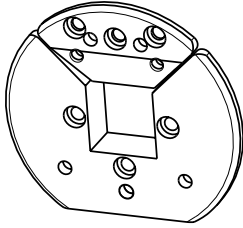
SKO foot mounted chuck



SKOF flange mounted chuck

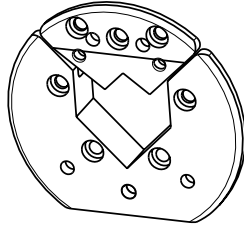
# Boschert-Sliding-Chuck options

## VT-insert



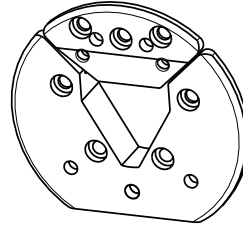
VT 1

Info: 11.10



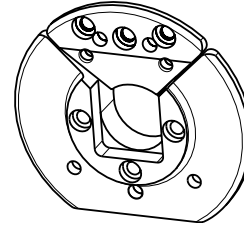
VT 2

Info: 11.10



VT 6

Info: 11.11



VT 7

Info: 11.12

### Note at VT2 and VT7 Chucks:

max. weight = 0.8 x catalogue value

max. torque = 0.7 x catalogue value

Info  
11.20

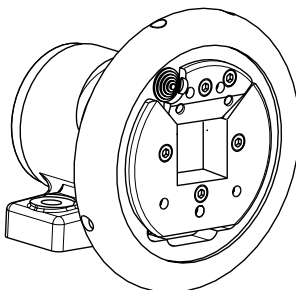
## Shaft end

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

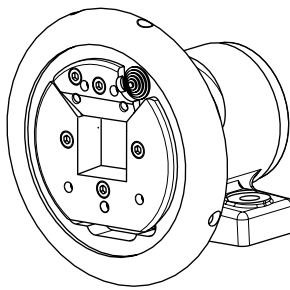
Special shaft ends per customer request

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

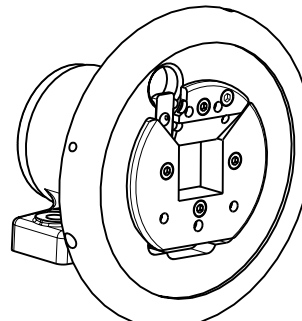
## Handwheel lock



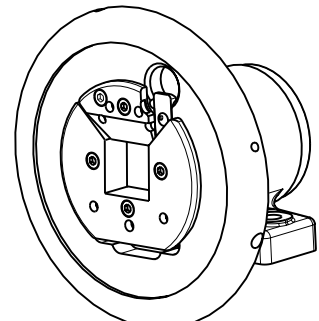
HRV I left



HRV I right



HRV II left



HRV II right

Only 22-30

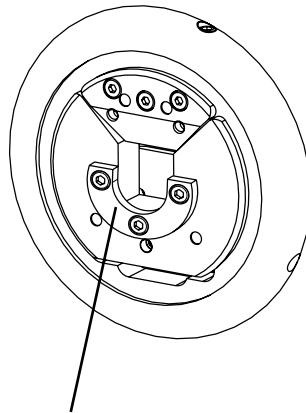
Due to safety reasons we recommend  
handwheel locks on applications in turret winders.

Info  
8.30

Info  
8.31

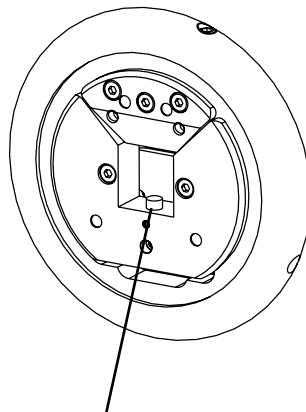
Handwheel-diameter on chucks 30-40 / 40-50 with lock type II: Ø 250 mm

## Axial locking of winding shaft



Axial locking with driver disc

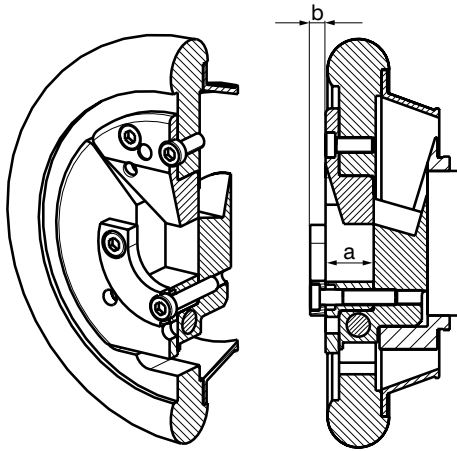
	standard	Option
VT 1		x
VT 2	x	
VT 6	x	
VT 7	x	



Axial locking with driver pin

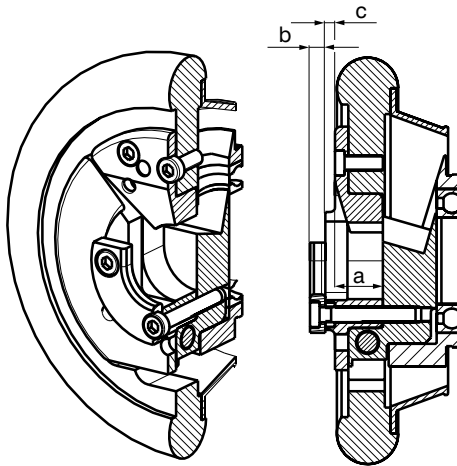
	standard	Option
VT1	x	

# Dimensions axial locking in Sliding-Chuck



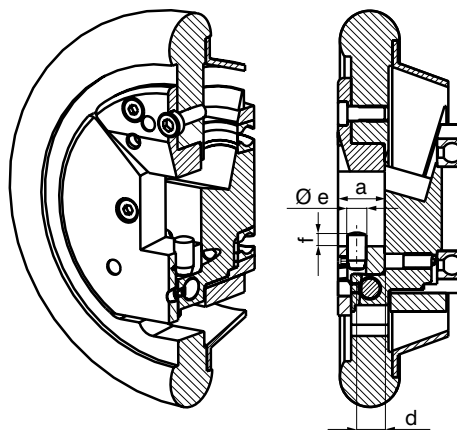
driver disc VT1 / VT2 / VT6

	22-30	30-40	40-50
<b>a</b>	22	25	27
<b>b</b>	7	8	8



driver disc VT7

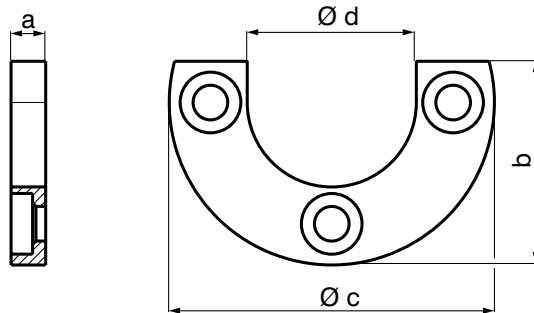
	22-30	30-40	40-50
<b>a</b>	22	25	27
<b>b</b>	7.5	7.5	7.5
<b>c</b>	3	5	4



driver pin

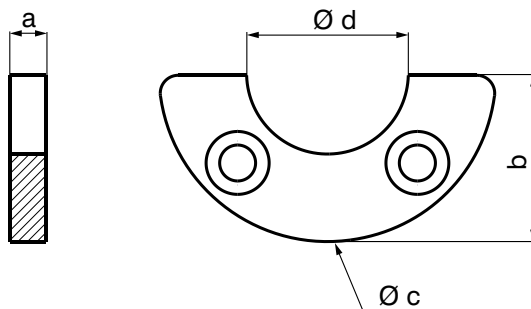
	22-30	30-40	40-50
<b>a</b>	22	25	27
<b>d</b>	12	15	14
<b>e m6</b>	8	10	12
<b>f</b>	6	6	6

## VT 1



	Mini	19-25	22-30	30-40	40-50
<b>a</b>	5	5	7	8	8
<b>b</b>	31	30	38	47	55
<b>c</b>	48	48	60	75	90
<b>d</b>	d = square bar dimension - 1 +0,1				

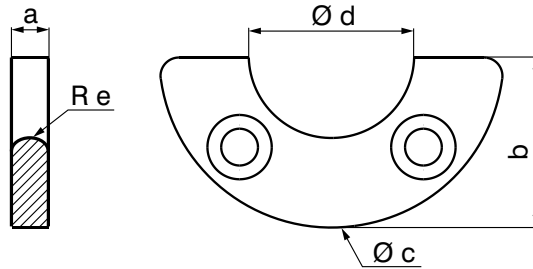
## VT 2



	22-30	30-40	40-50
<b>a</b>	7	8	8
<b>b</b>	29	37	44
<b>c</b>	60	75	90
<b>d</b>	d = square bar dimension - 1 +0,1		

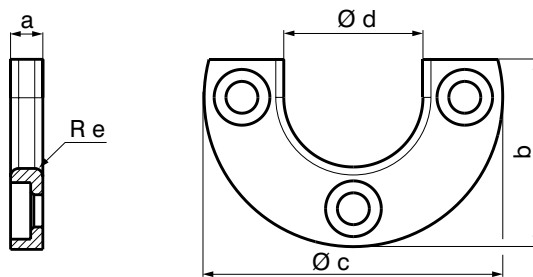


## VT 6



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

## VT 7

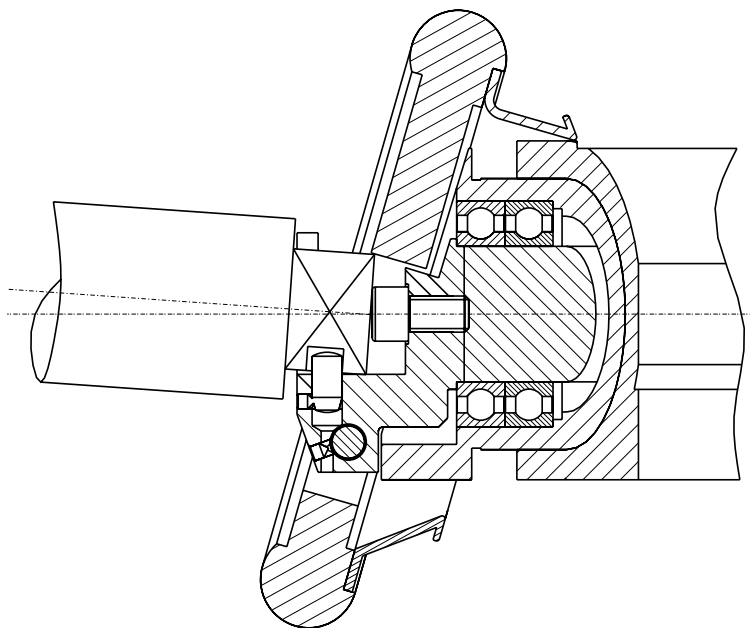
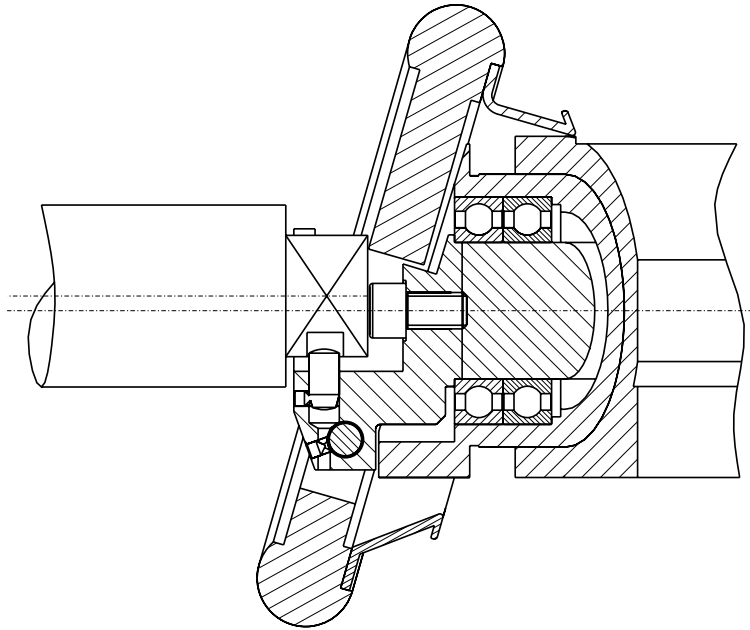


	22-30	30-40	40-50
<b>a</b>	7.5	7.5	7.5
<b>b</b>	38	47	55
<b>c</b>	60	75	90
<b>d</b>	29 +0.1	39 +0.1	49 +0.1
<b>e</b>	2	2	2

## Comment to operation of chucks

### For chucks with axial-movement with driver pin

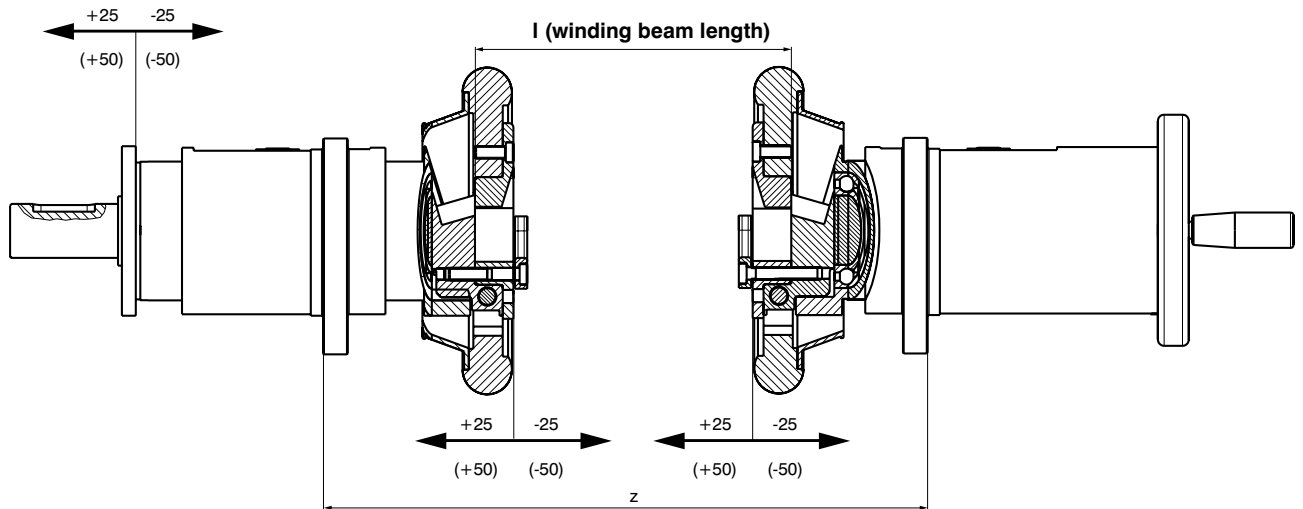
Occasionally, operation errors can occur when using a crane and the driver pins can become damaged. During unloading, if the winding shaft is lifted at an angle, enormous leverages can occur on the pins and cause them to shear.



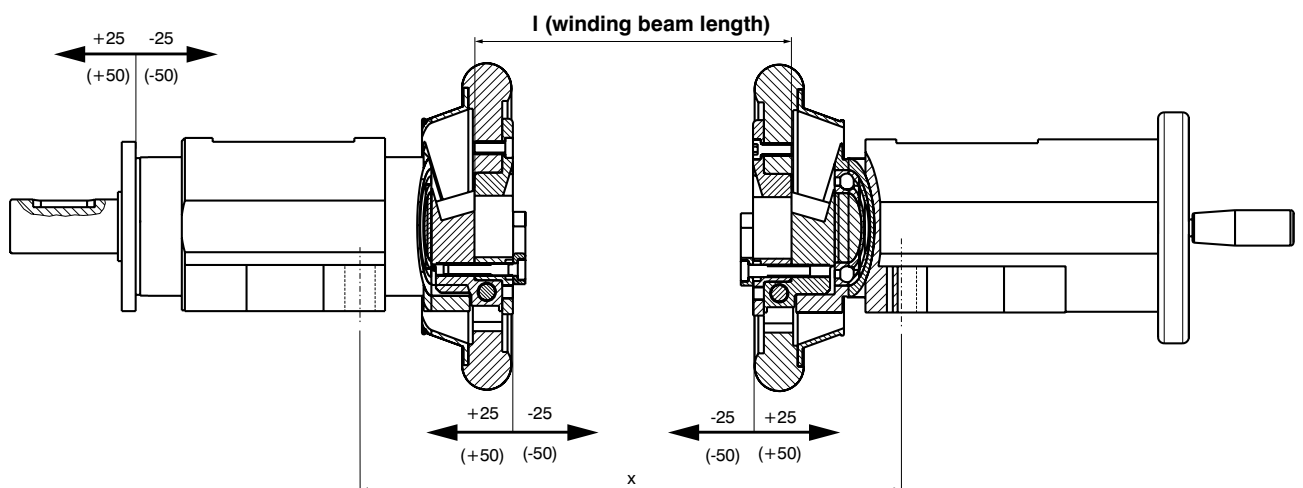
**Please use driver discs as an alternative.**

# Fixing positions Sliding-Chuck

## flange mounted chuck



## foot mounted chuck



### 50 mm adjustment

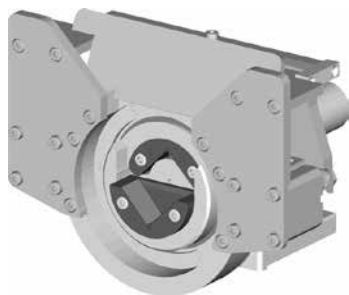
	22-30	30-40	40-50
<b>x</b>	l+156	l+156	l+176
<b>z</b>	l+188	l+197	l+219

### 100 mm adjustment

	22-30	30-40	40-50
<b>x</b>	l+206	l+206	l+226
<b>z</b>	l+238	l+247	l+269

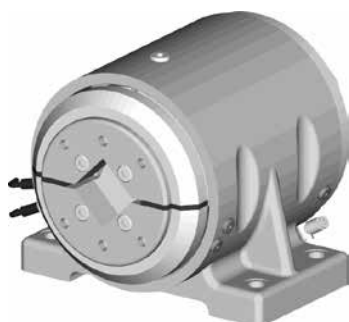
x / z = fixing distance

## 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>
<b>A40</b>	1600	350	40	x	4.20
<b>A50</b>	2800	1100	50	x	4.30
<b>A80</b>	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>
<b>P40</b>	1600	350	40	x	4.60
<b>P50</b>	2800	1100	50	x	4.70

## 4.20 Boschert-Chuck A40



**A40 STO**

**Boschert** automatic chuck, foot mounted without shaft end

**A40 STW**

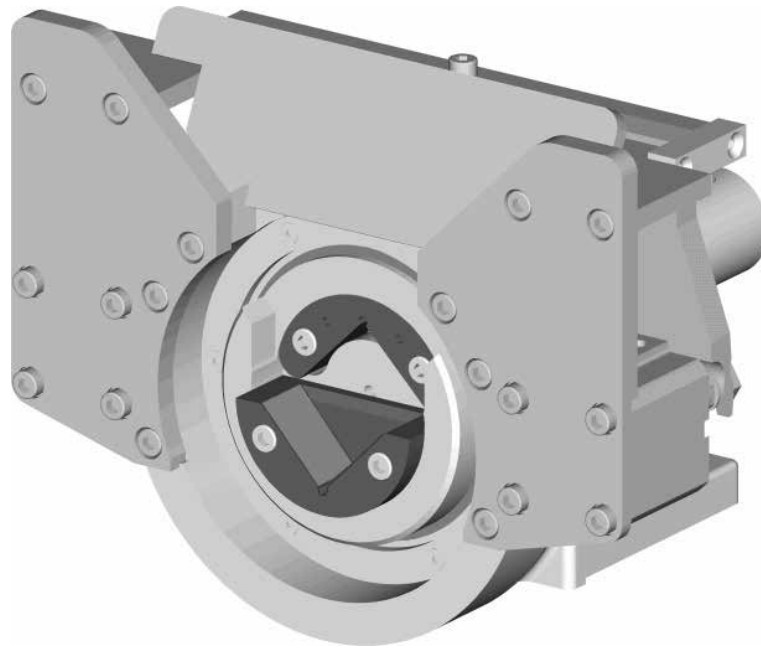
**Boschert** automatic chuck, foot mounted with shaft end

**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:

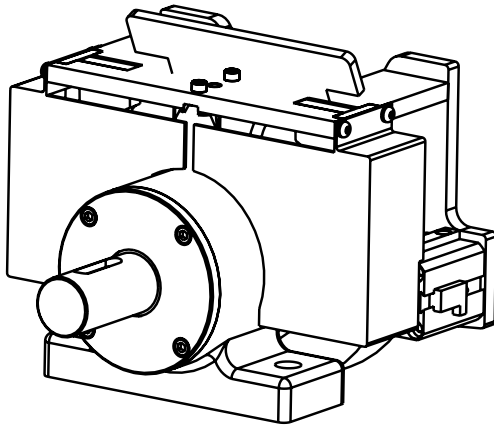
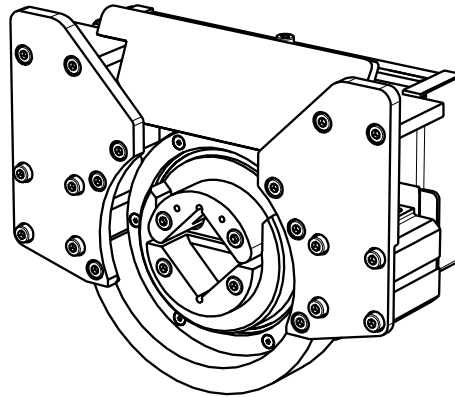
This chuck is a direct retrofit for the chuck 30-40 type C or 30-40 type VT.

		Info
Type:	VT	4.44
Journal shaft type VT:	VT2	4.23
Shaft end:	standard	4.23
Options:	proximity sensor	4.23
Add. parts:	brakes	6.00
	clutches	7.00

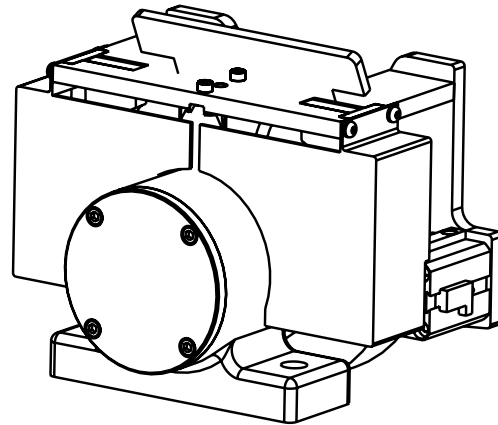
# Boschert-Chuck A40 foot mounted



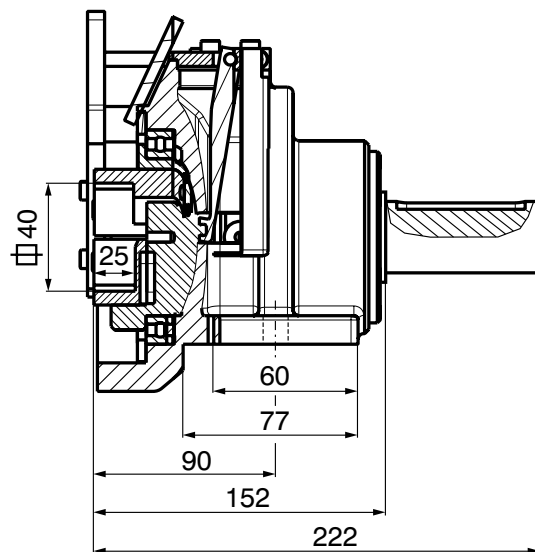
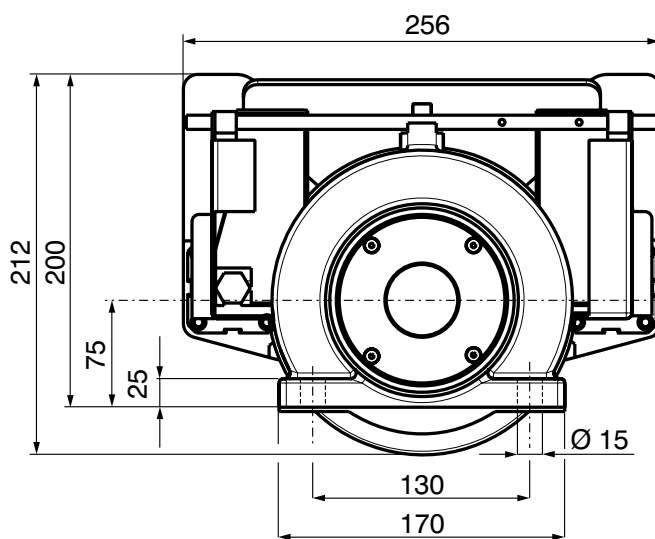
Boschert-Chuck A40



STW A40  
chuck with shaft end



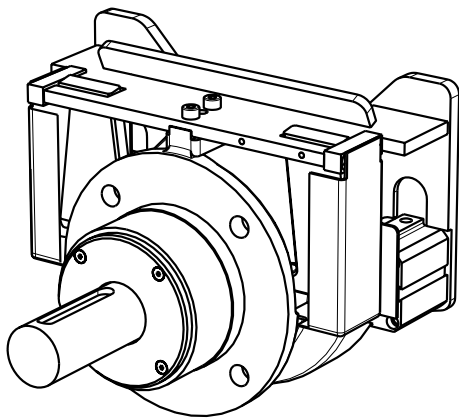
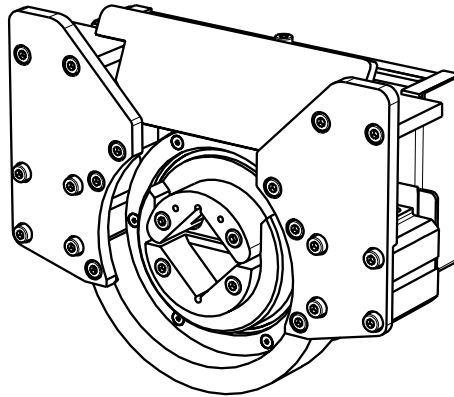
STO A40  
chuck without shaft end



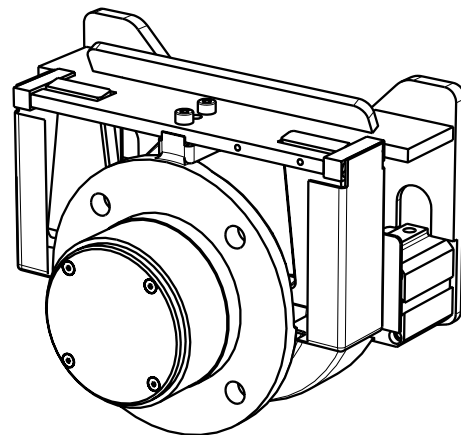
Shaft end details page 4.23

# Boschert-Chuck A40 flange mounted

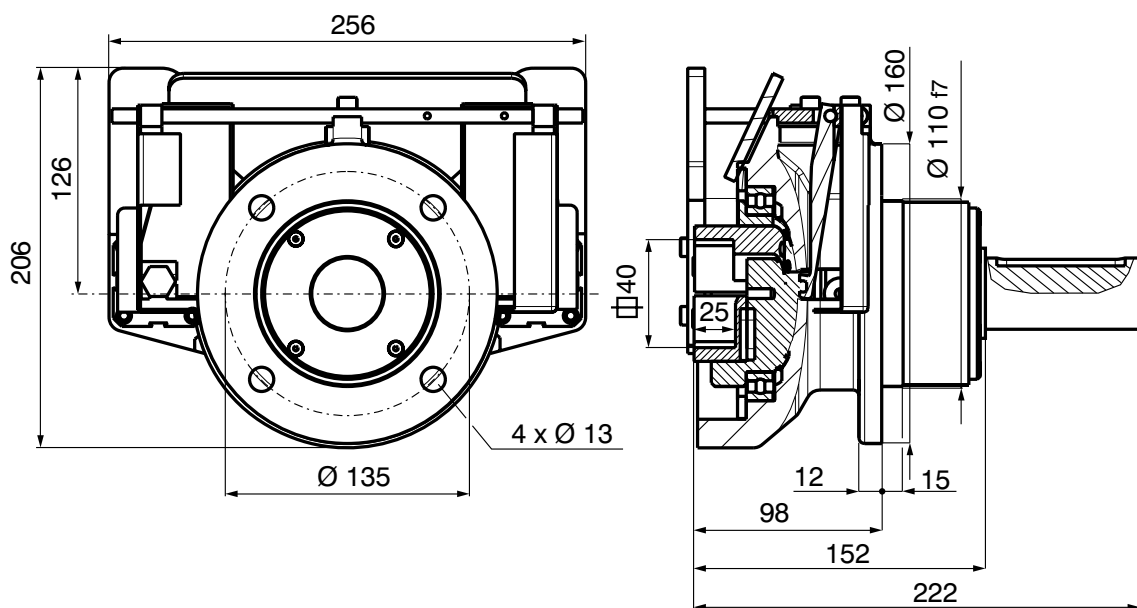
Boschert-Chuck A40



FLW A40  
chuck with shaft end



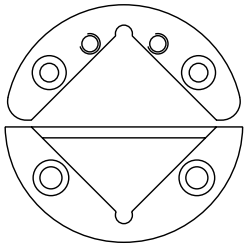
FLO A40  
chuck without shaft end



Shaft end details page 4.23

# Boschert-Chuck A40 options

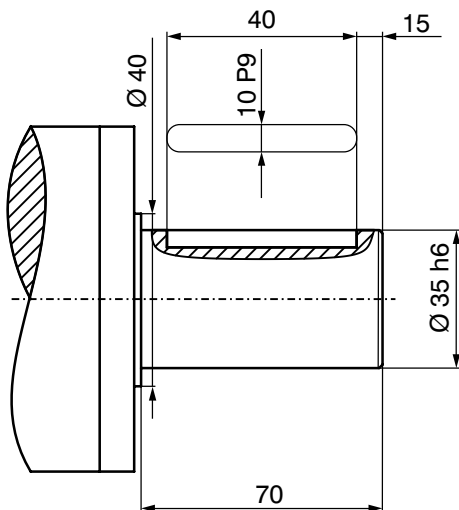
## Journal shaft type



VT 2

Info: 11.10

## Shaft end

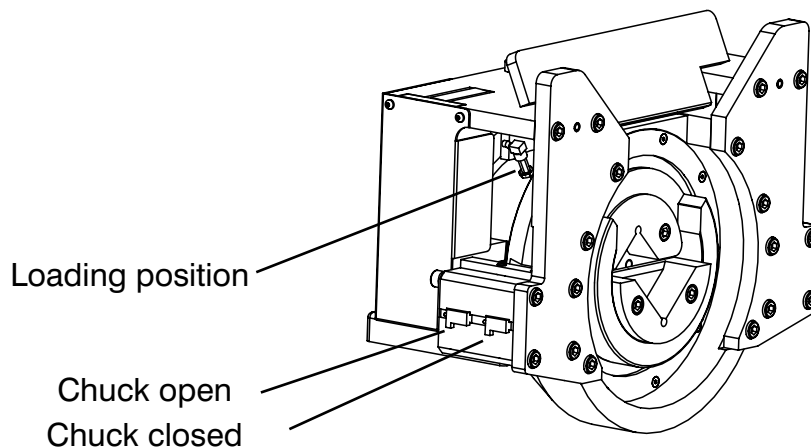


Standard shaft end

Special shaft ends per customer request

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

## Proximity sensor





## 4.30 Boschert-Chuck A50



**A50 STO**

**Boschert** automatic chuck, foot mounted without shaft end

**A50 STW**

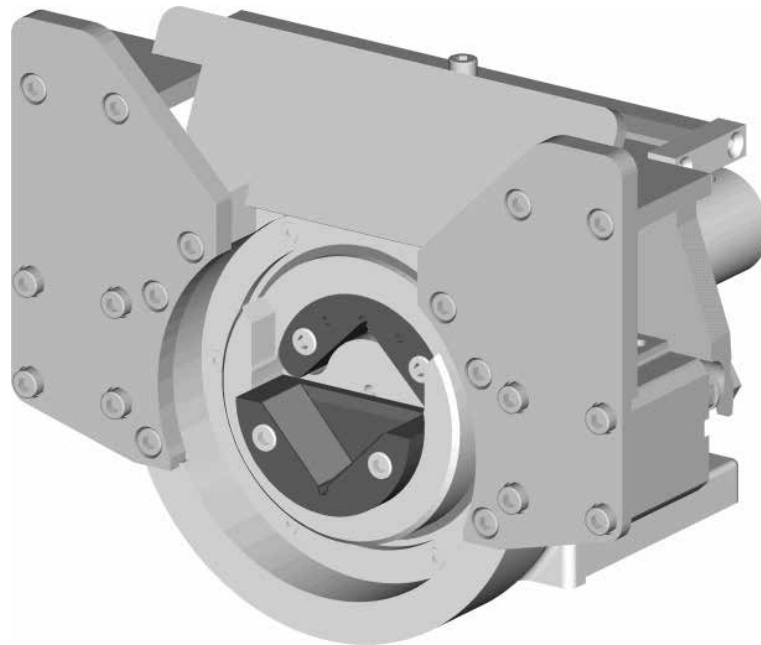
**Boschert** automatic chuck, foot mounted with shaft end

**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:

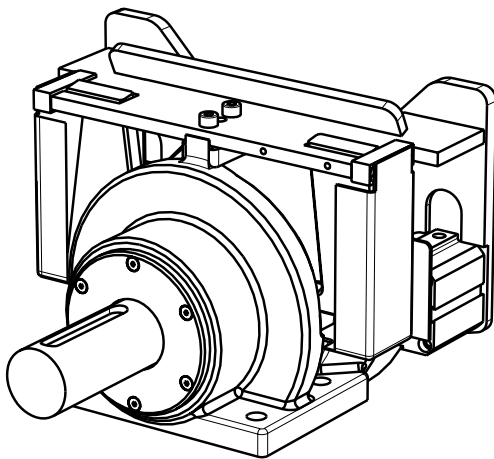
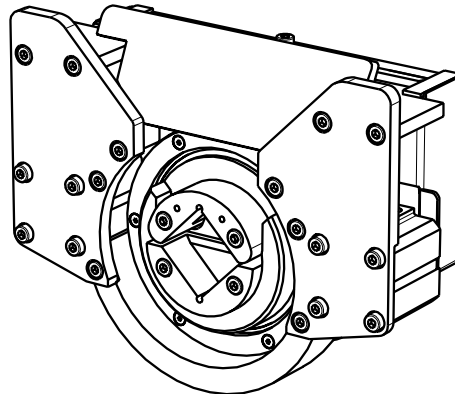
This chuck is a direct retrofit for the chuck 40-50 type C or 40-50 type VT.

		Info
<b>Type:</b>	VT	4.44
<b>Journal shaft type VT:</b>	VT2	4.33
<b>Shaft end:</b>	standard	4.33
<b>Options:</b>	proximity sensor	4.33
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00

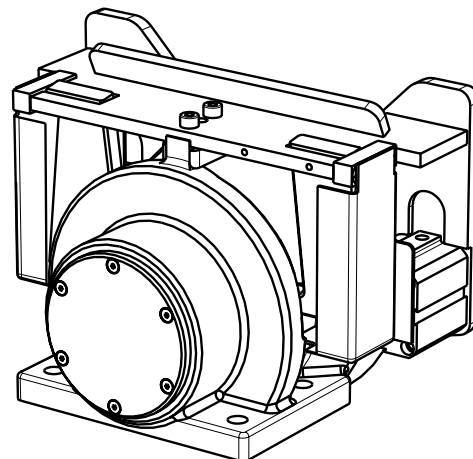
# Boschert-Chuck A50 foot mounted



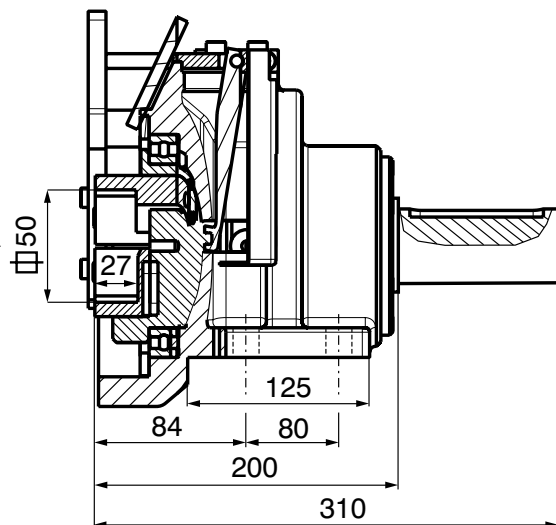
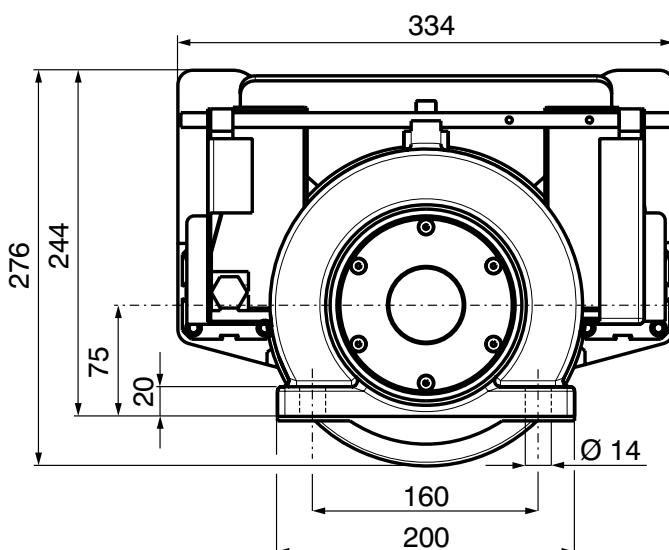
Boschert-Chuck A50



STW A50  
chuck with shaft end



STO A50  
chuck without shaft end



Shaft end details page 4.33

4.31

Mattenstrasse 1  
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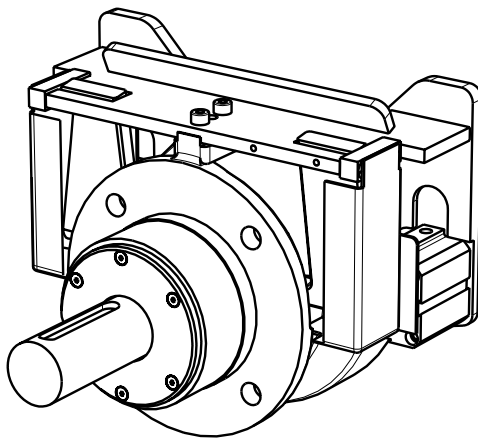
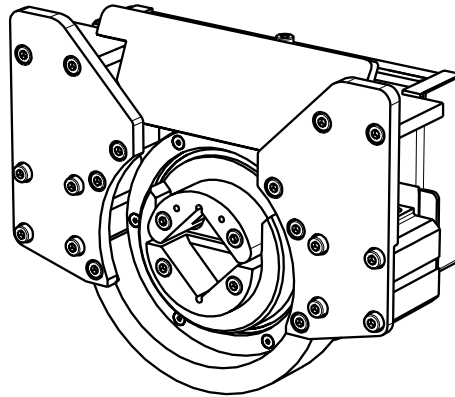
infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

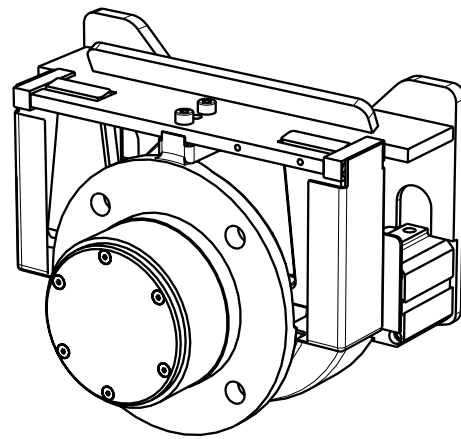
Changes reserved (b)

# Boschert-Chuck A50 flange mounted

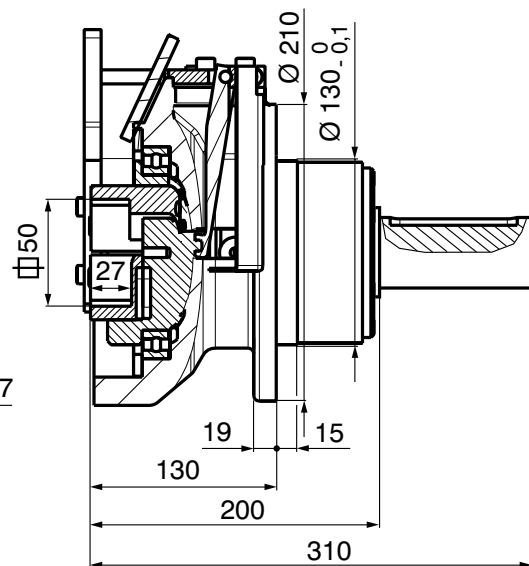
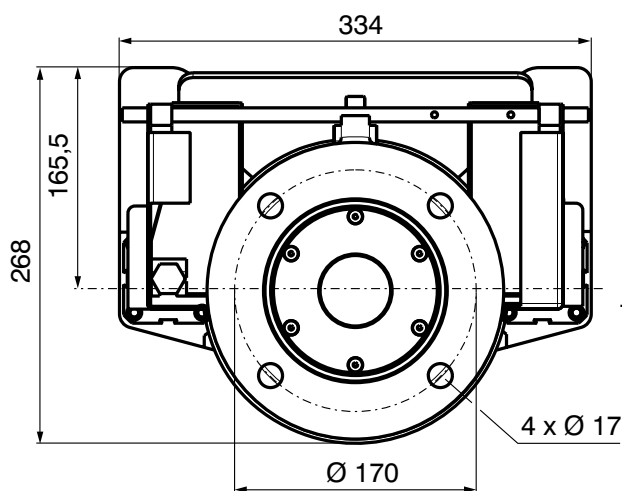
Boschert-Chuck A50



FLW A50  
chuck with shaft end



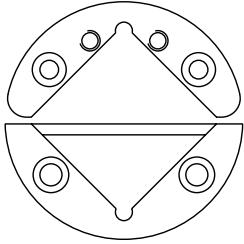
FLO A50  
chuck without shaft end



Shaft end details page 4.33

# Boschert-Chuck A50 options

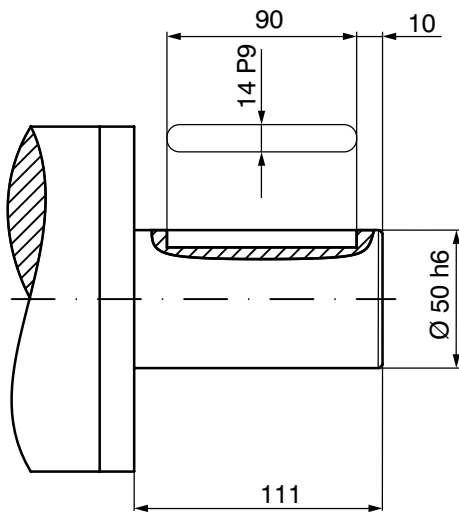
## Journal shaft type



VT 2

Info: 11.10

## Shaft end

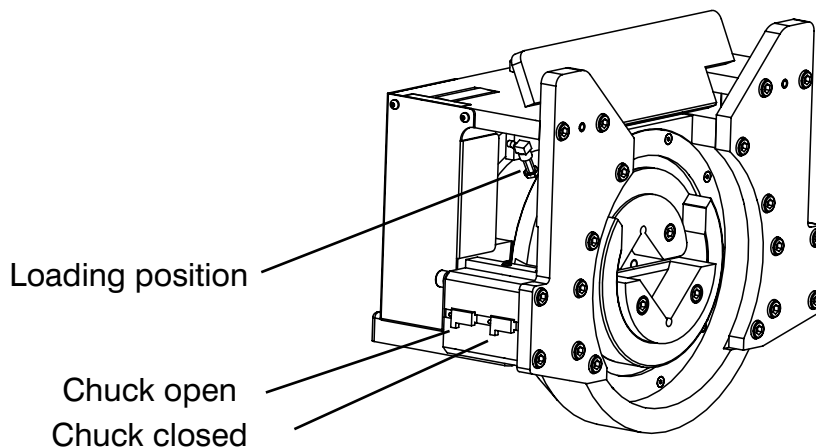


Standard shaft end

Special shaft ends per customer request

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

## Proximity sensor



## 4.40 Boschert-Chuck A80

**A80 STO**

**Boschert** automatic chuck, foot mounted without shaft end

**A80 STW**

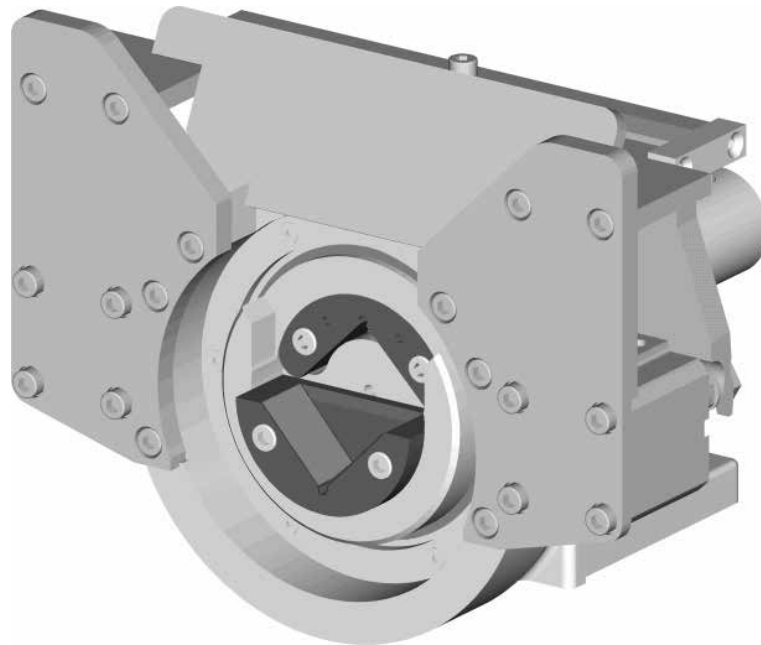
**Boschert** automatic chuck, foot mounted with shaft end

**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:

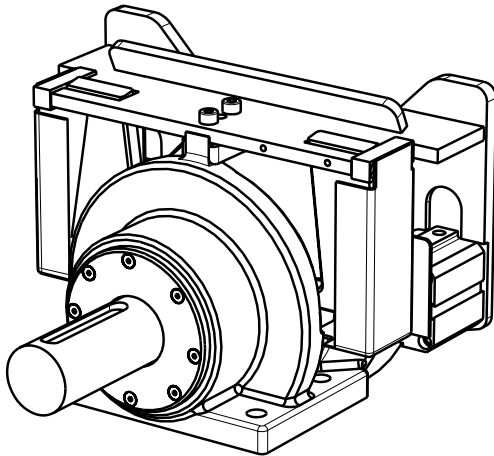
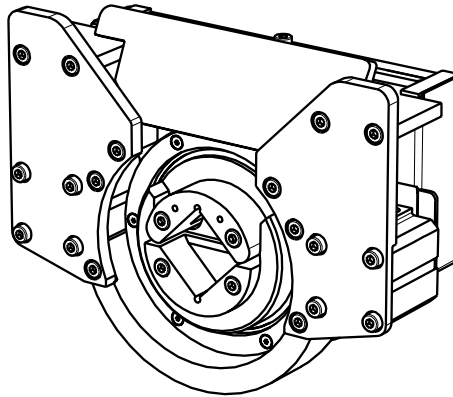
This chuck is a direct retrofit for the chuck 50-80 type VT.

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

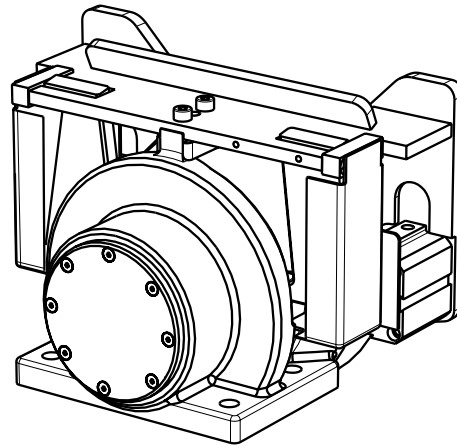
# Boschert-Chuck A80 foot mounted



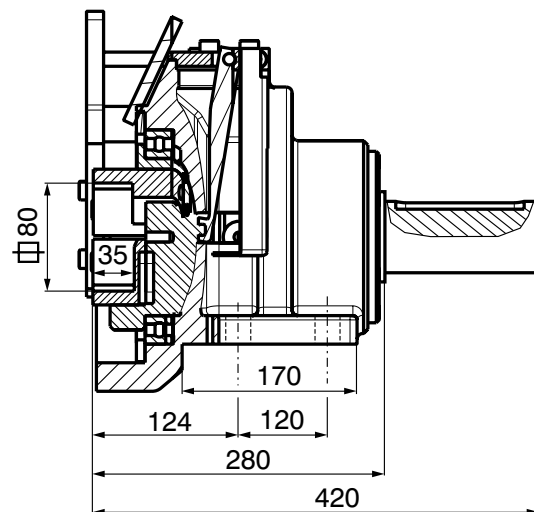
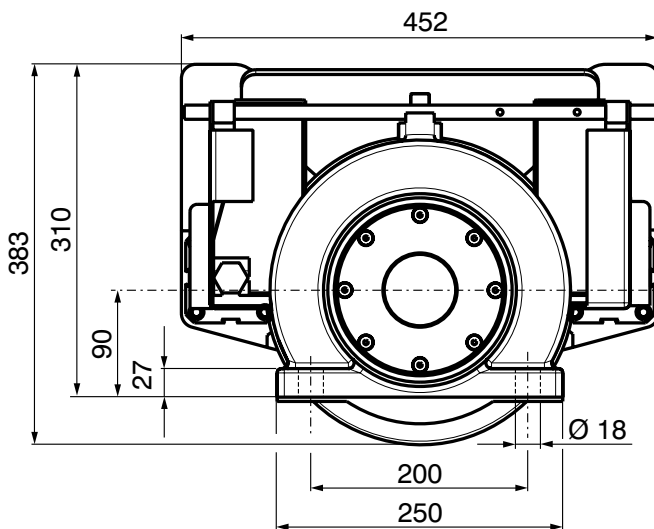
Boschert-Chuck A80



STW A80  
chuck with shaft end



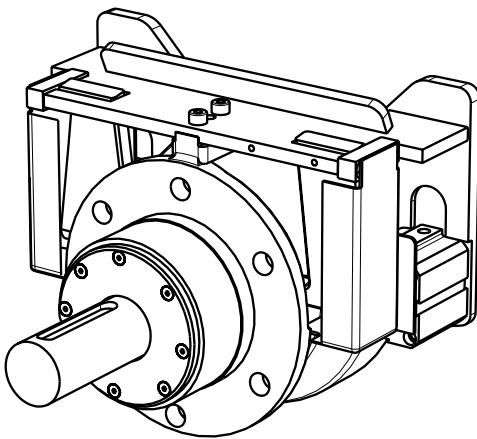
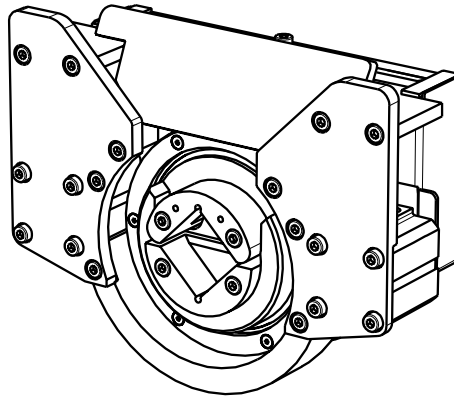
STO A80  
chuck without shaft end



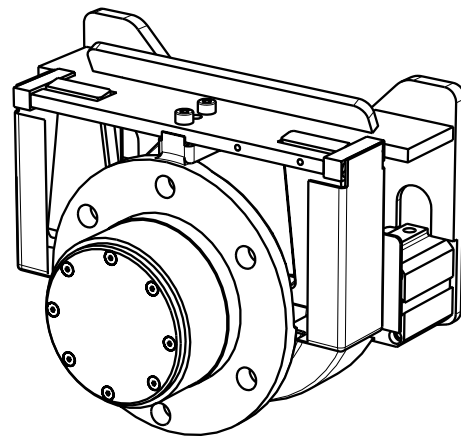
Shaft end details page 4.43

# Boschert-Chuck A80 flange mounted

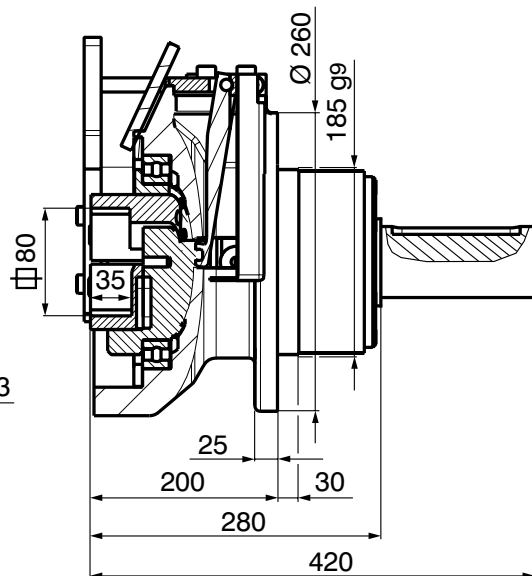
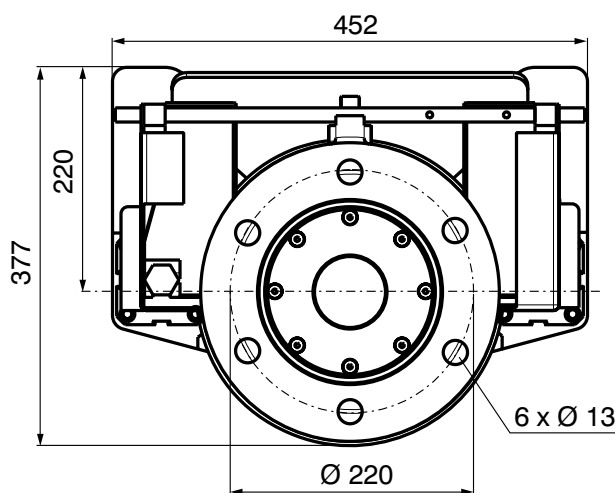
Boschert-Chuck A80



FLW A80  
chuck with shaft end



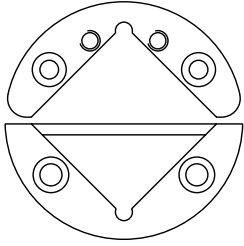
FLO A80  
chuck without shaft end



Shaft end details page 4.43

# Boschert-Chuck A80 options

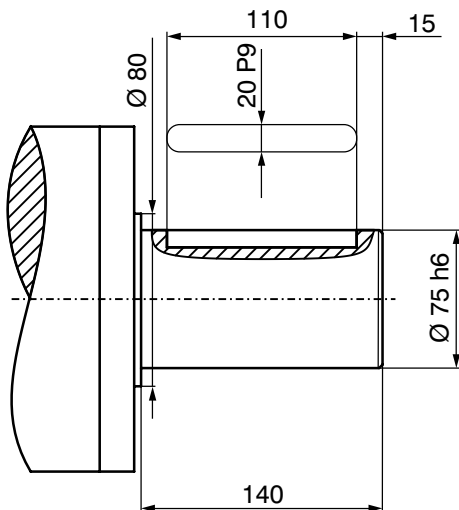
## Journal shaft type



VT 2

Info: 11.10

## Shaft end

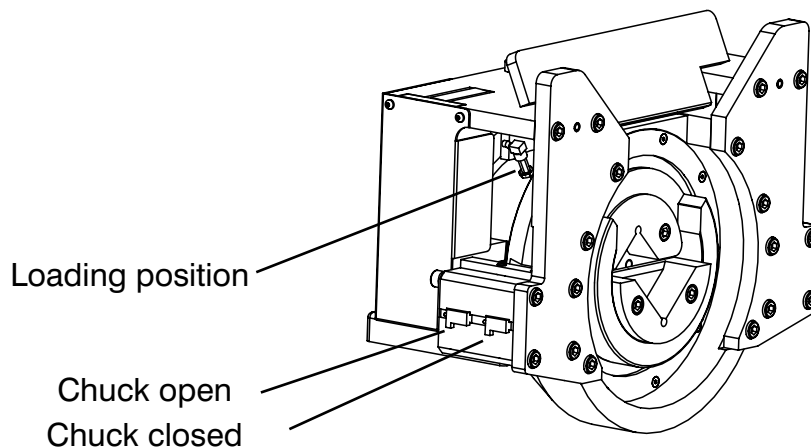


Standard shaft end

Special shaft ends per customer request

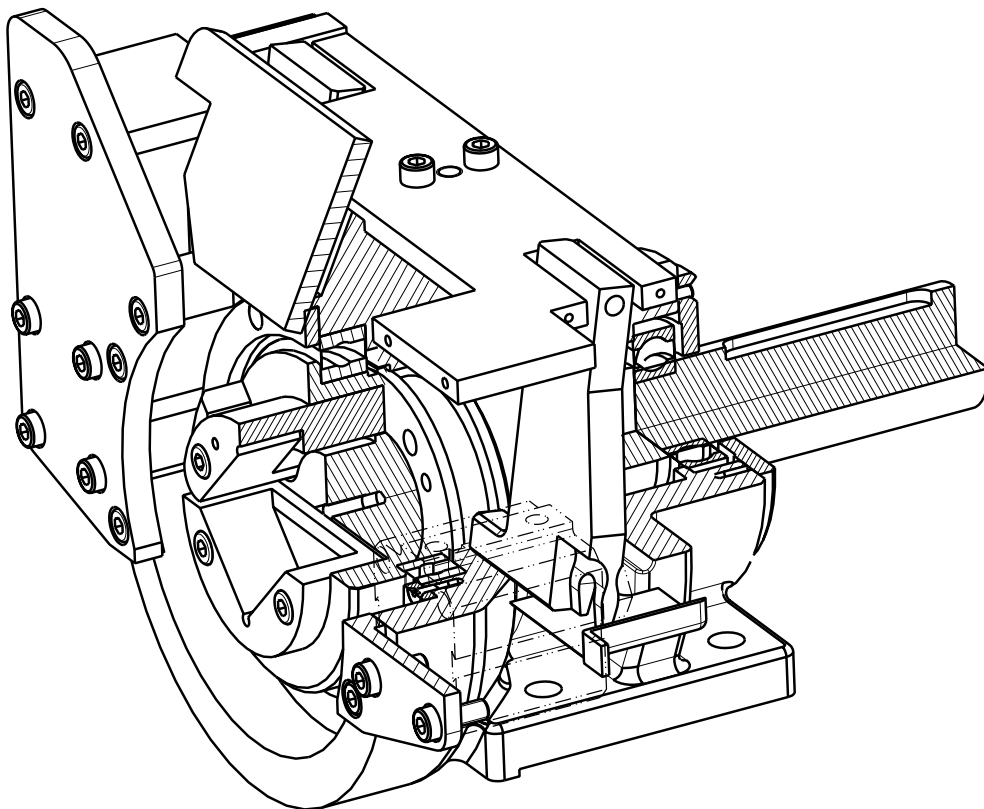
Max. shaft-dia.: Ø 80 mm  
(special shaft without stop)

## Proximity sensor

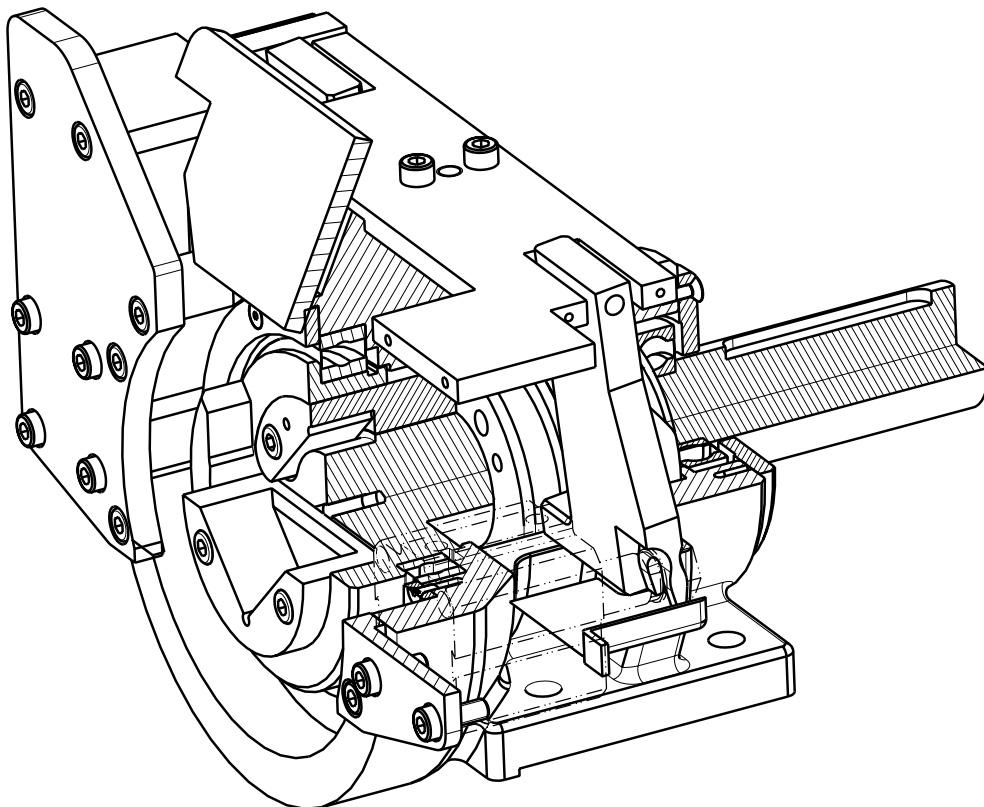




# Construction A-Chuck



A-Chuck closed






A-Chuck open

## 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:

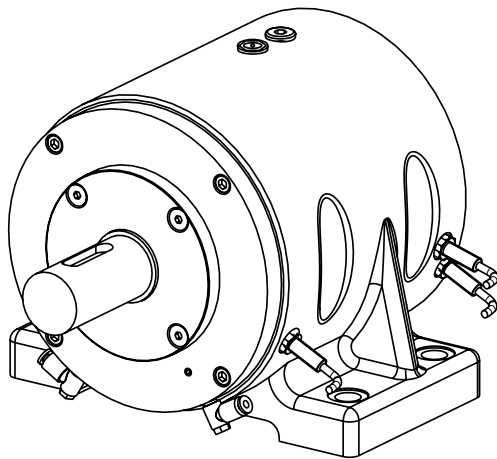
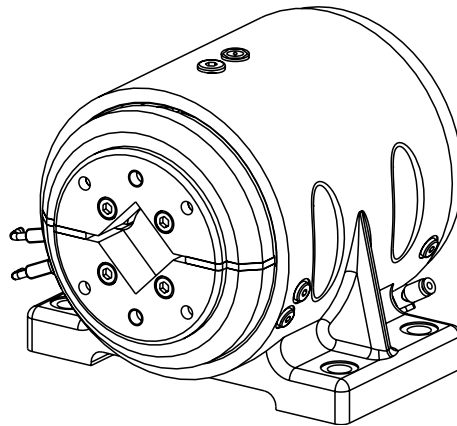
Max. beamweight and torque on P40 chucks are reduced when using VT2-inserts with a smaller square bar than  40 mm ( 1.5" / 38.1 mm).

		Info
<b>Type:</b>	VT	4.74
<b>Journal shaft type VT:</b>	VT2 / VT7	4.63
<b>Shaft end:</b>	standard	4.63
<b>Options:</b>	proximity sensor	4.63
<b>Add. parts:</b>	brakes	6.00
	clutches	7.00

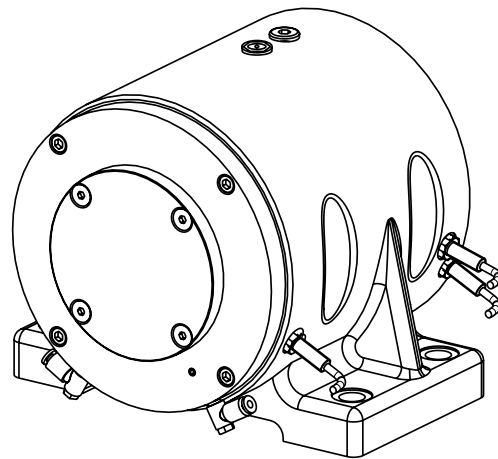
# Boschert-Chuck P40 foot mounted



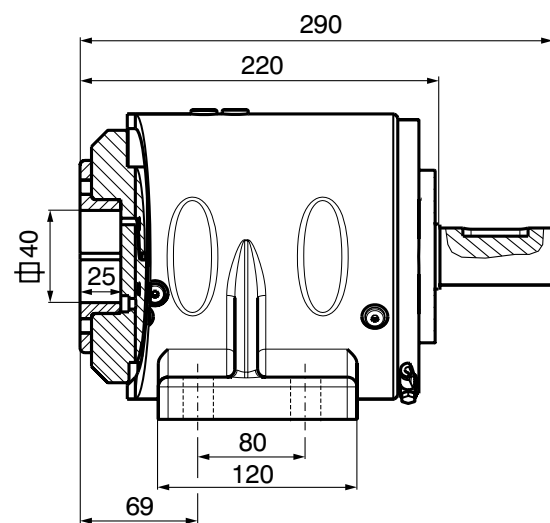
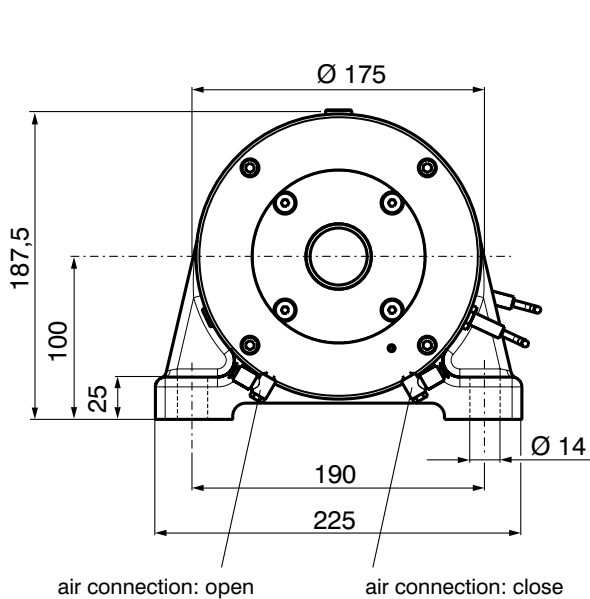
Boschert-Chuck P40



STW P40  
chuck with shaft end



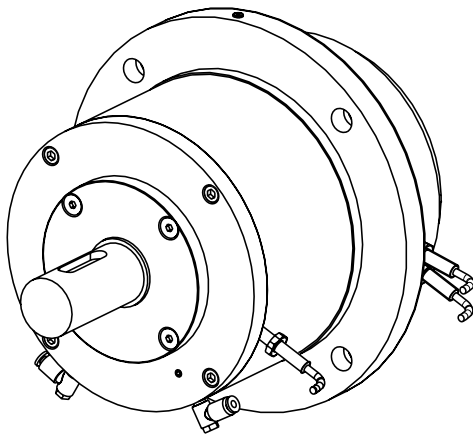
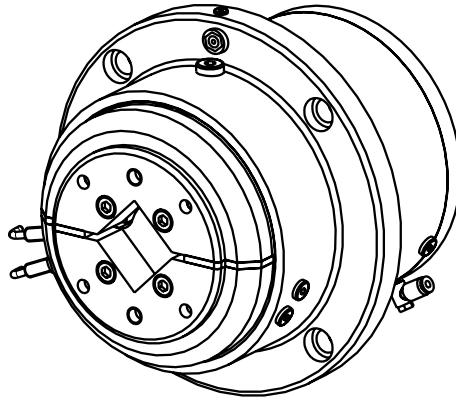
STO P40  
chuck without shaft end



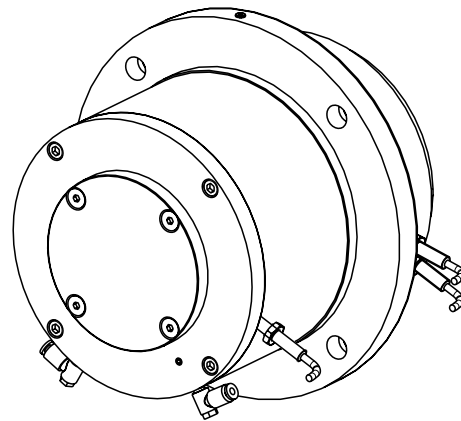
Shaft end details page 4.63

# Boschert-Chuck P40 flange mounted

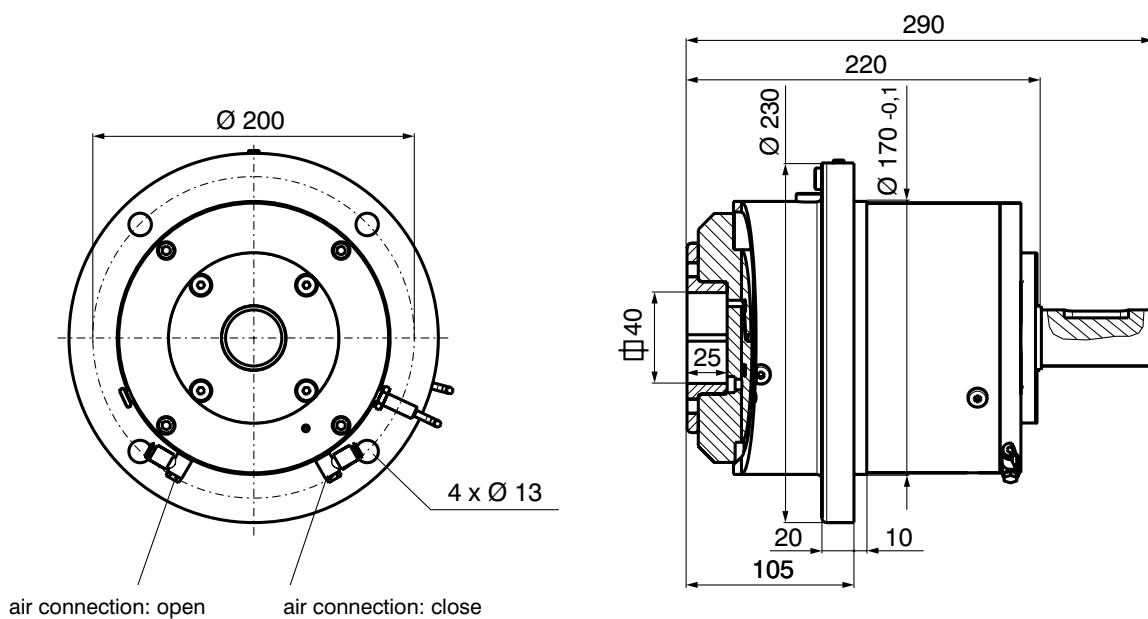
Boschert-Chuck P40



FLW P40  
chuck with shaft end



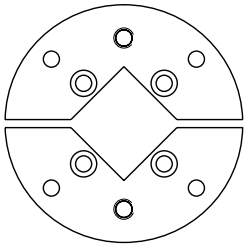
FLO P40  
chuck without shaft end



Shaft end details page 4.63

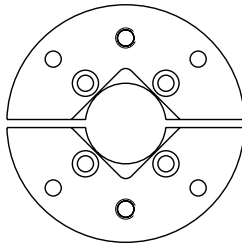
# Boschert-Chuck P40 options

## Journal shaft type



VT 2

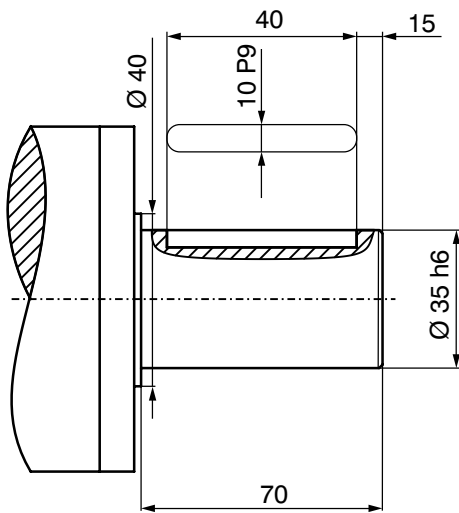
Info: 11.10



VT 7

Info: 11.12

## Shaft end

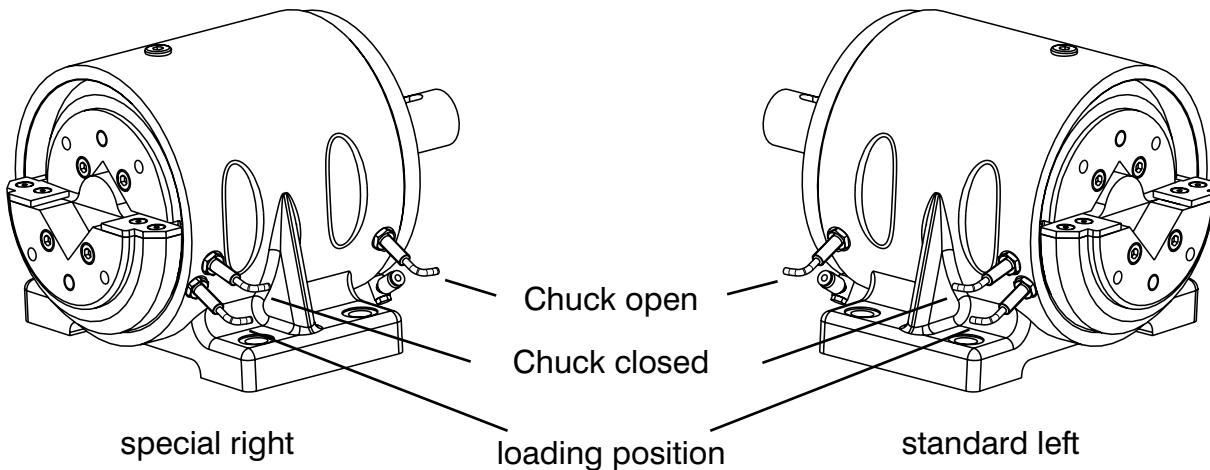


Standard shaft end

Special shaft ends per customer request

Max. shaft-dia.: Ø 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 ft/lb)

### Please note:

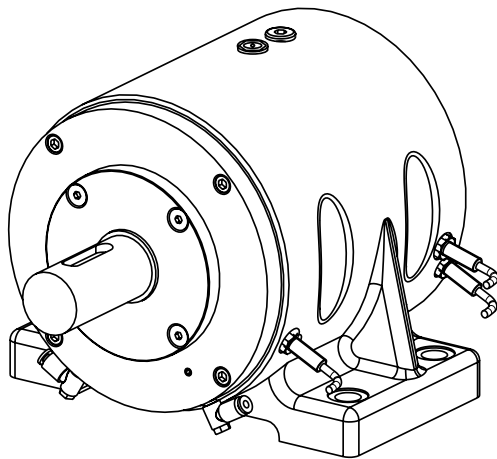
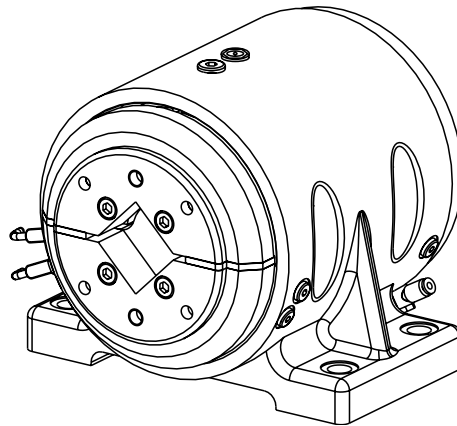
Max. beamweight and torque on P50 chucks are reduced when using VT2-inserts with a smaller square bar than  50 mm ( 2" / 50.8 mm).

		Info
Type:	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	7.00

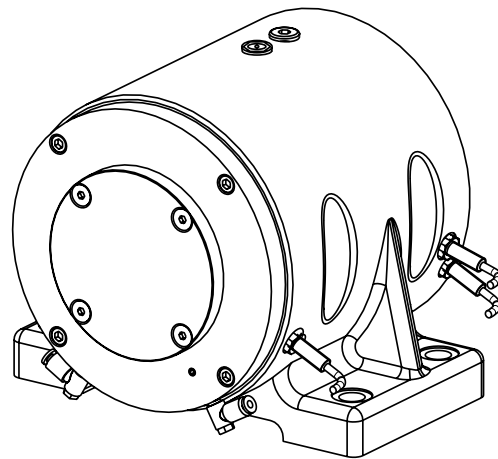
# Boschert-Chuck P50 foot mounted



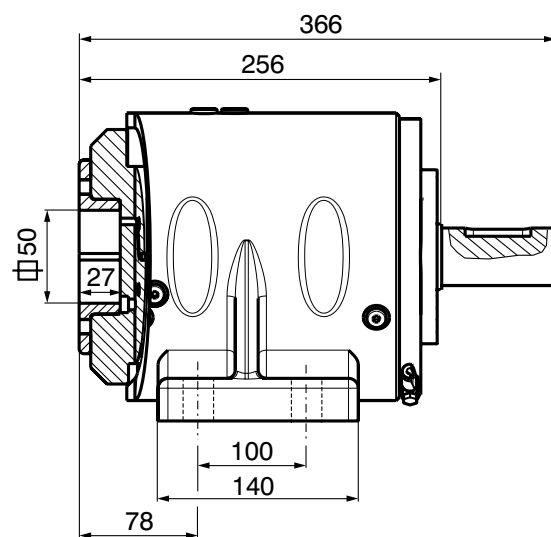
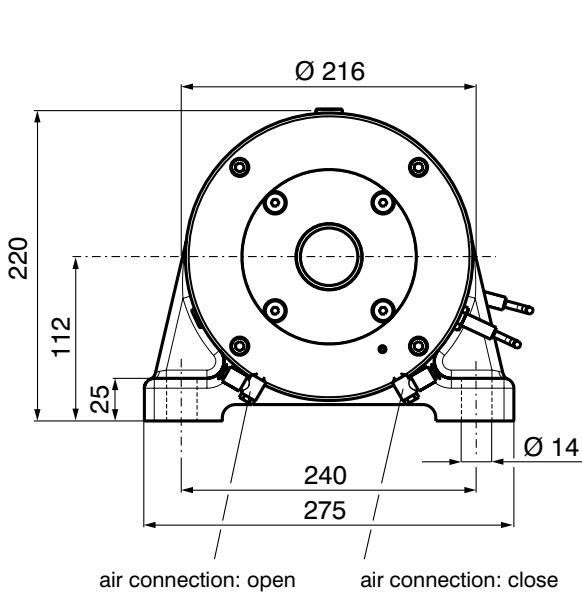
Boschert-Chuck P50



STW P50  
chuck with shaft end



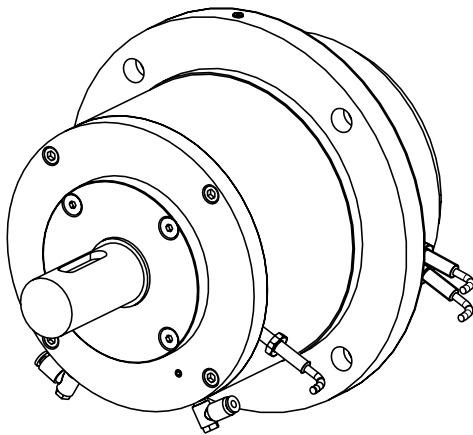
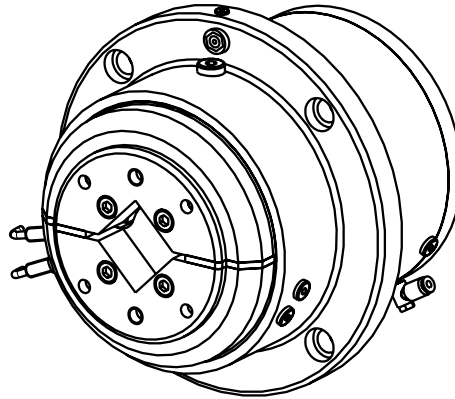
STO P50  
chuck without shaft end



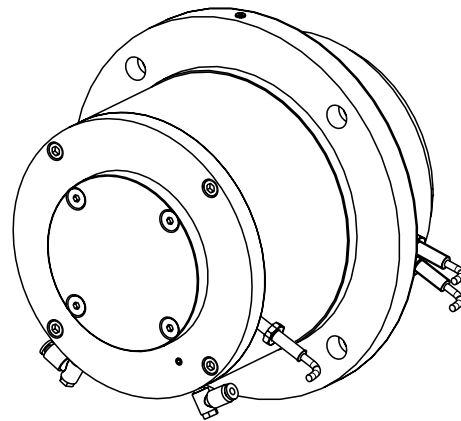
Shaft end details page 4.73

# Boschert-Chuck P50 flange mounted

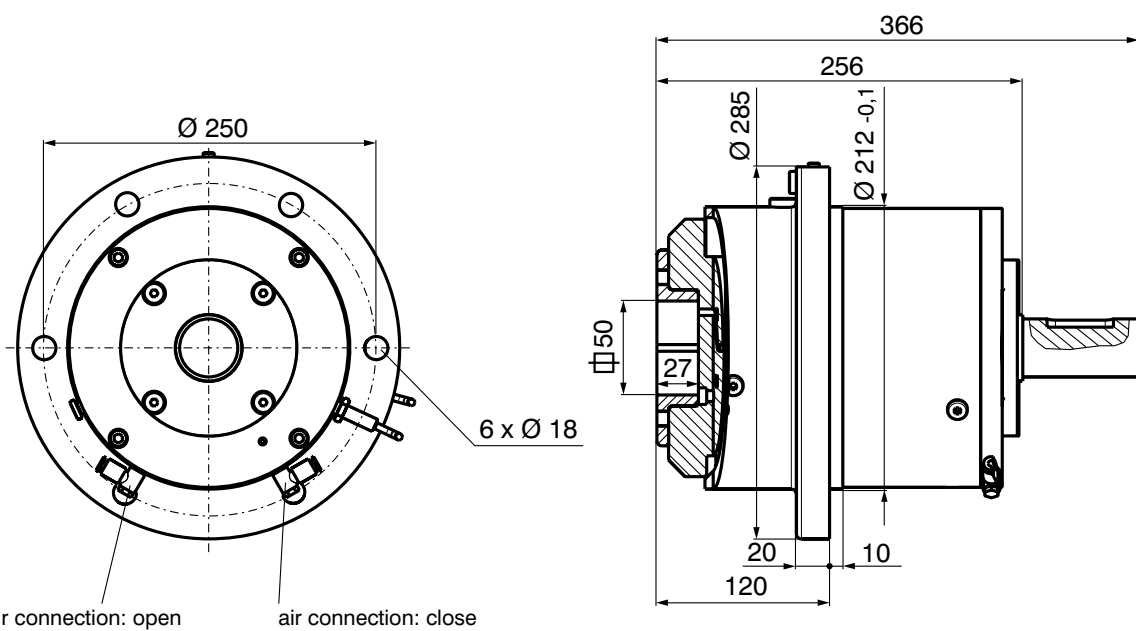
Boschert-Chuck P50



FLW P50  
chuck with shaft end



FLO P50  
chuck without shaft end

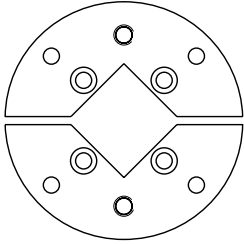


Shaft end details page 4.73



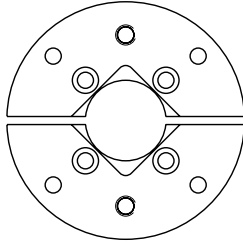
# Boschert-Chuck P50 options

## Journal shaft type



VT 2

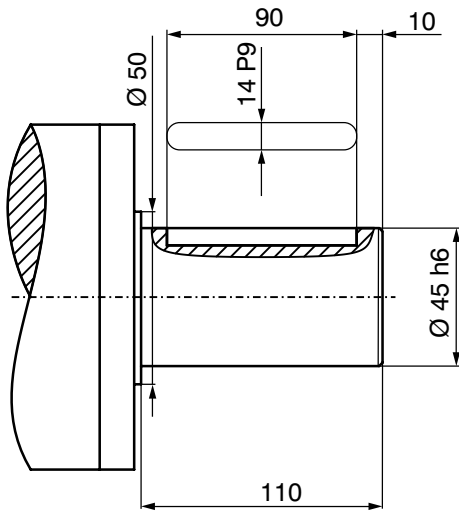
Info: 11.10



VT 7

Info: 11.12

## Shaft end

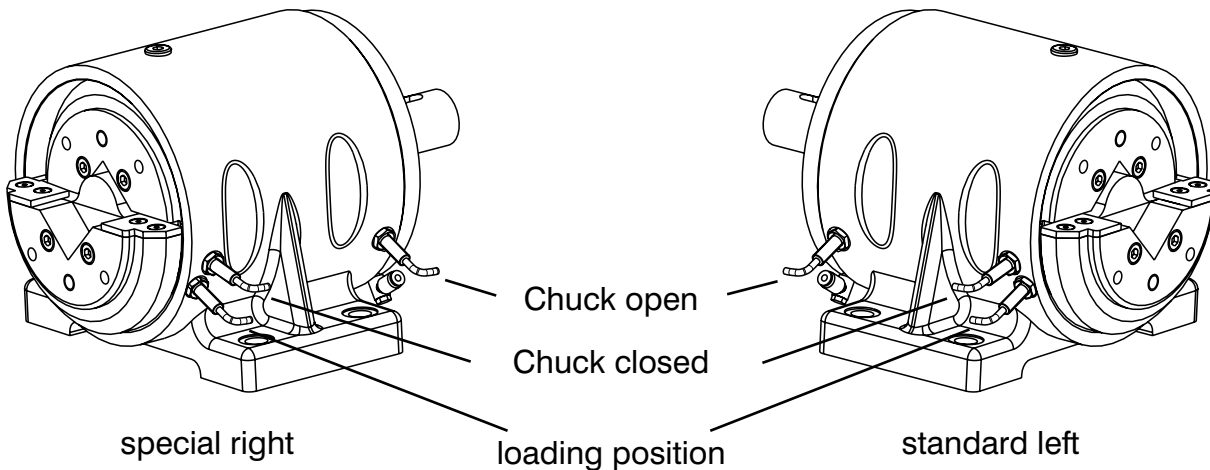


Standard shaft end

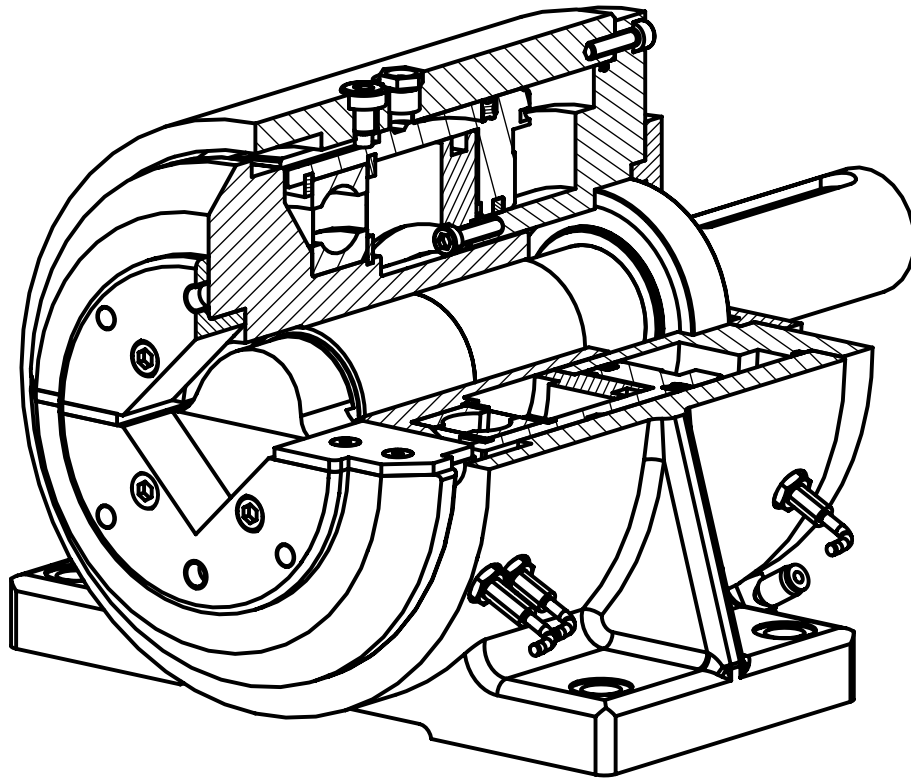
Special shaft ends per customer request

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

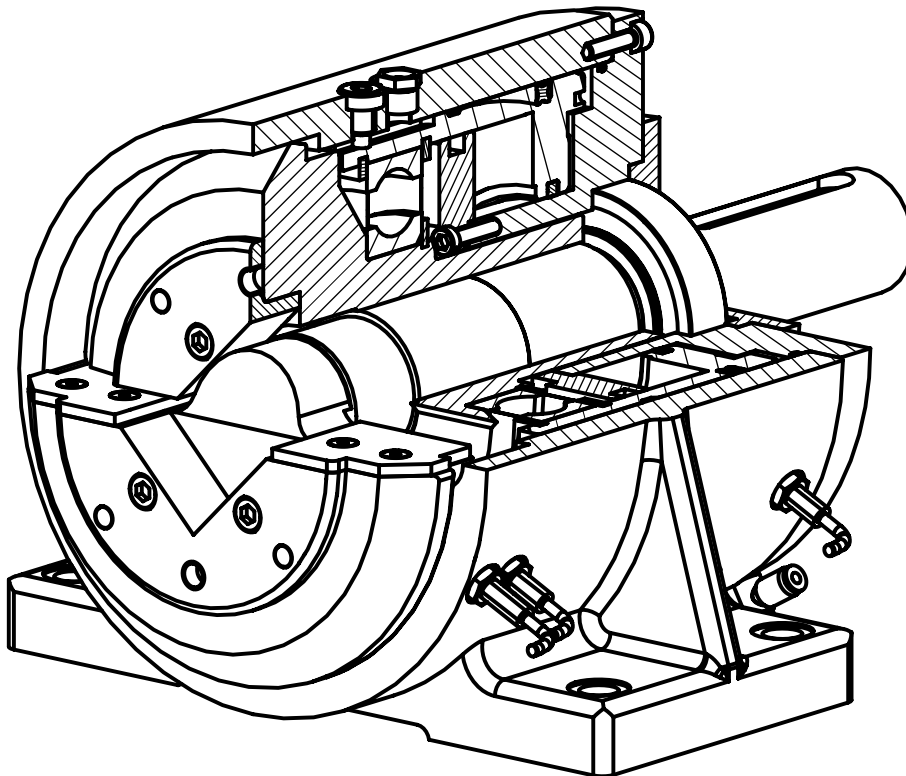
## Proximity sensor



# Construction Chuck type P

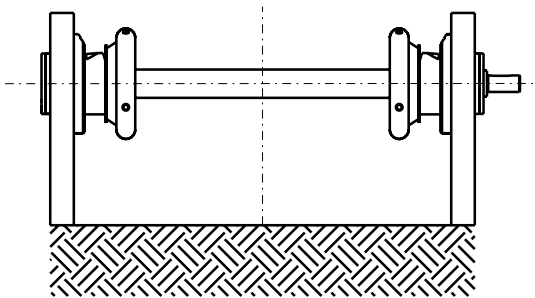
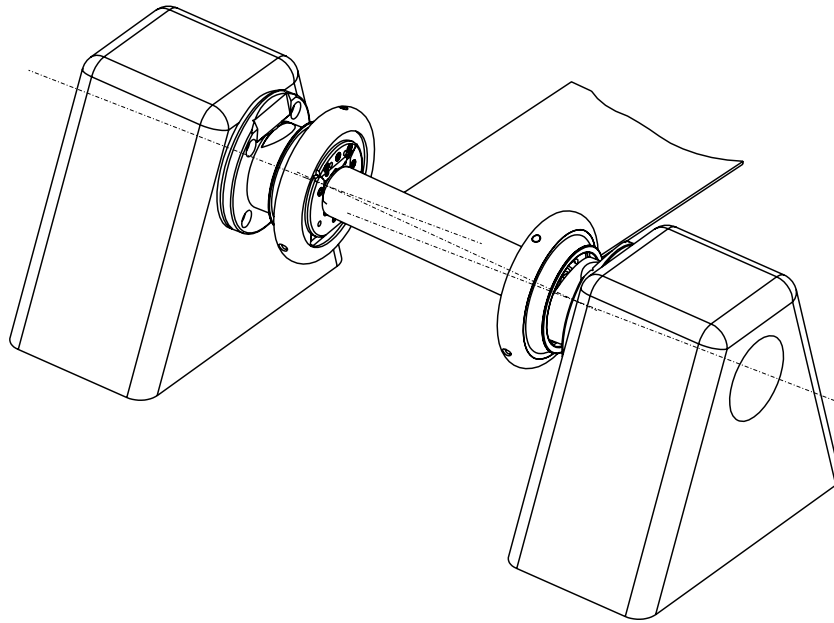


P-Chuck closed

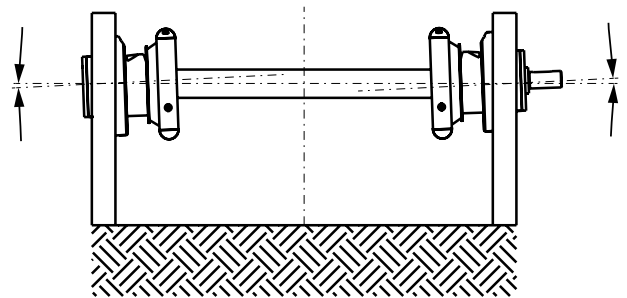


P-Chuck open

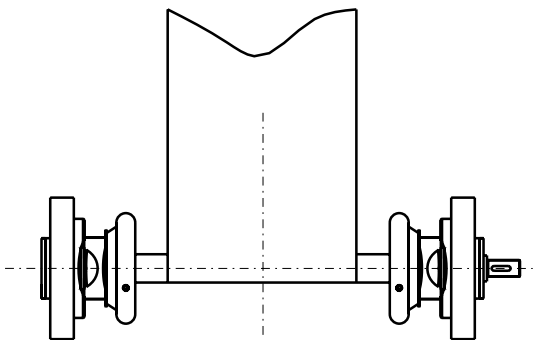
## 5.00 Assembly Instruction



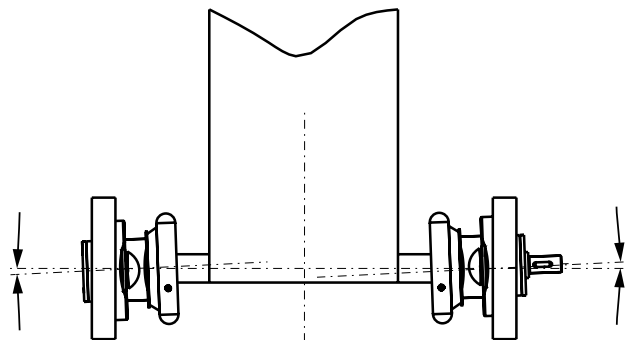
right



wrong



right



wrong

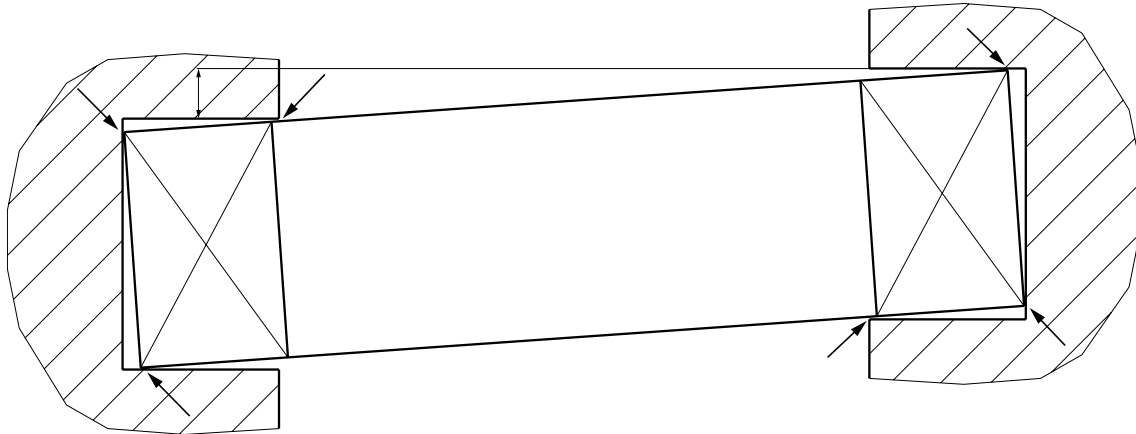
- Boschert Chucks have to be mounted in an alignment
- please make sure that the winding shafts are mounted in the same height and same distance
- No more than  $0.3^\circ$  misalignment.

- 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.

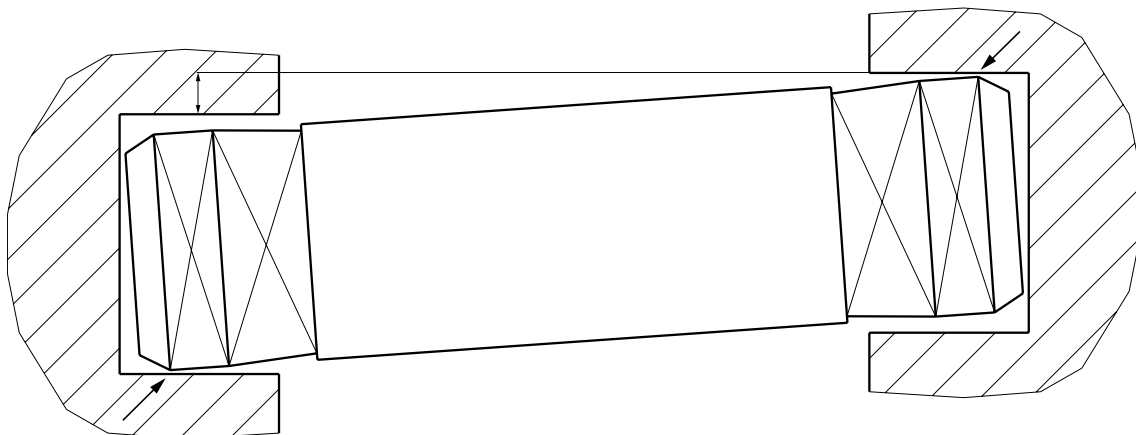
The result are vibrations of the stand or the machine.

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

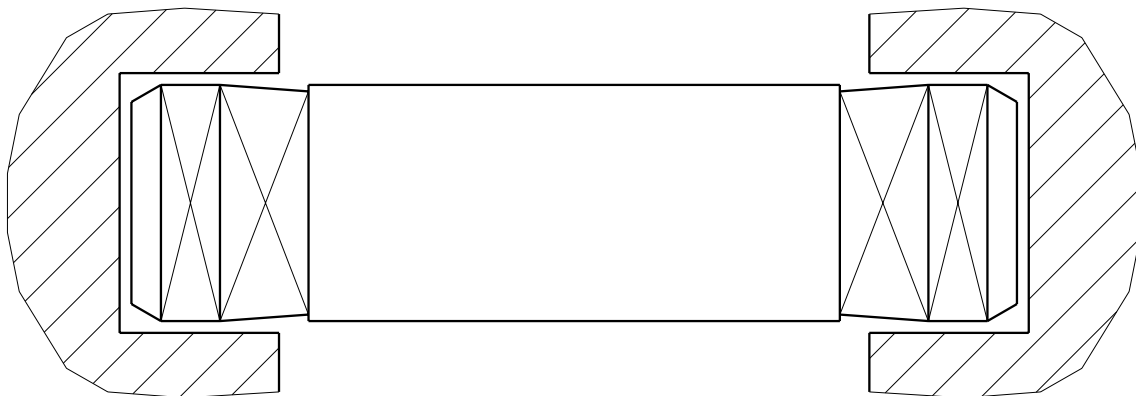
**Boschert cannot provide any warranty if the chucks are not mounted as recommended.**



wrong alignment



wrong alignment



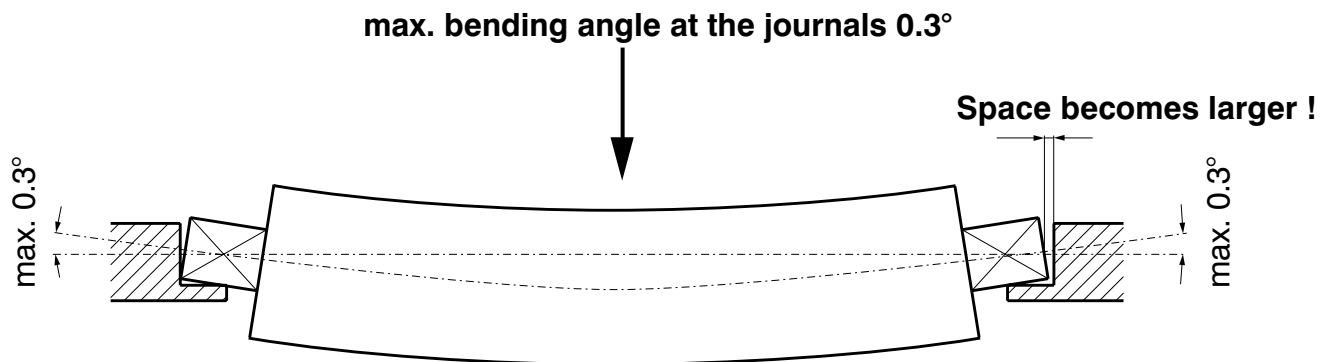
correct alignment

## Advantages of close tolerances - Selection of the winding bar

Here especially measure „x“ see page 11.00.

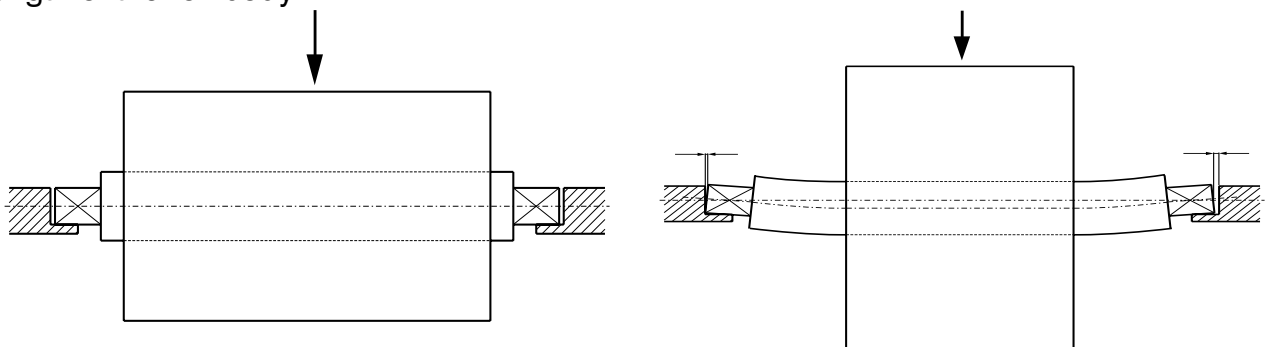
Only slight axial space between safety chuck and winding bar results in troublefree winding. On the other hand, there has to be enough space to put the winding bar in. Since the space differs from application to application, we show the main influences on examples:

### 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  
D-79541 Loerrach-Hauingen  
phone-no.: +49 (0) 7621 9593 0  
Fax-no.: +49 (0) 7621 5518 4

## 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.



## Info wearing-parts



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

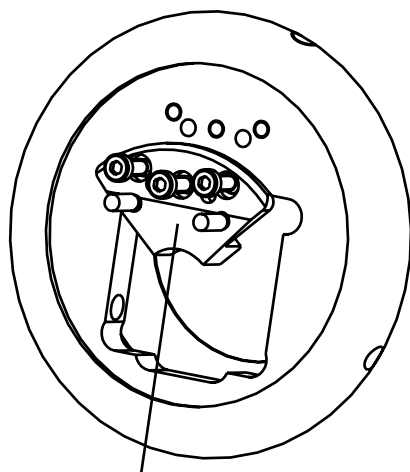
# Maintenance inspection suggestions

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

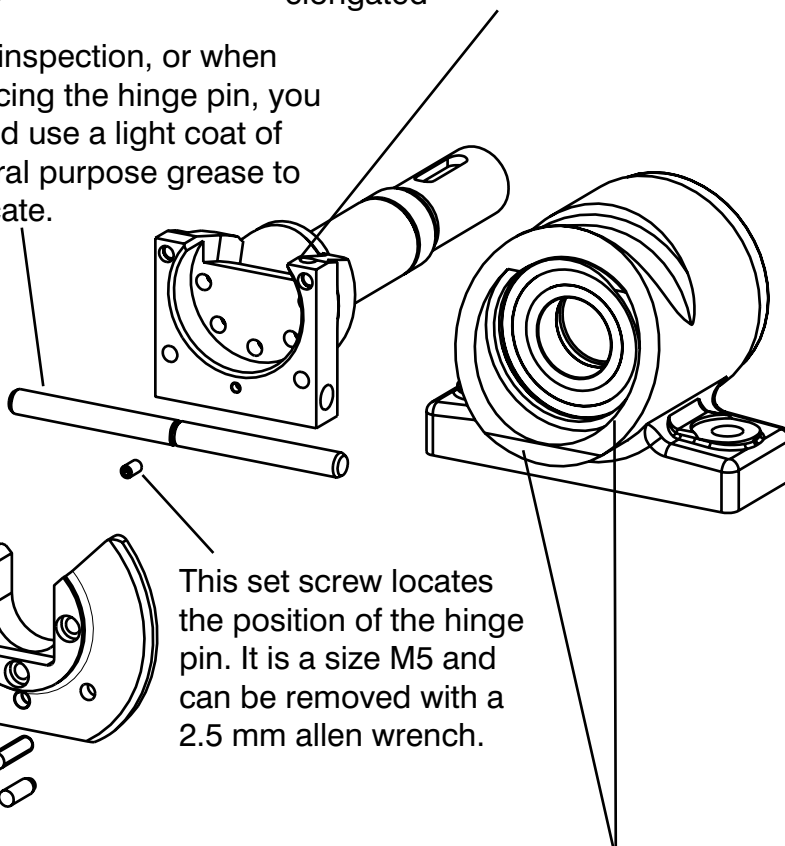


Fingerguard is securely fixed to the handwheel and not worn

Check to see that the detent in the shoulder of the seat opening is concentric, not deformed or elongated



After inspection, or when replacing the hinge pin, you should use a light coat of general purpose grease to lubricate.



Replacable insert are matched and have the same identification number stamped on the backside of the top piece and the bottom piece.

This set screw locates the position of the hinge pin. It is a size M5 and can be removed with a 2.5 mm allen wrench.

Use new screws and pins when installing a new replaceable insert.

The bottom of the housing is located 1-1.5 mm behind the hand wheel. Check to see that the housing is not worn at this location.

**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.

## 5.10 Safety information

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.

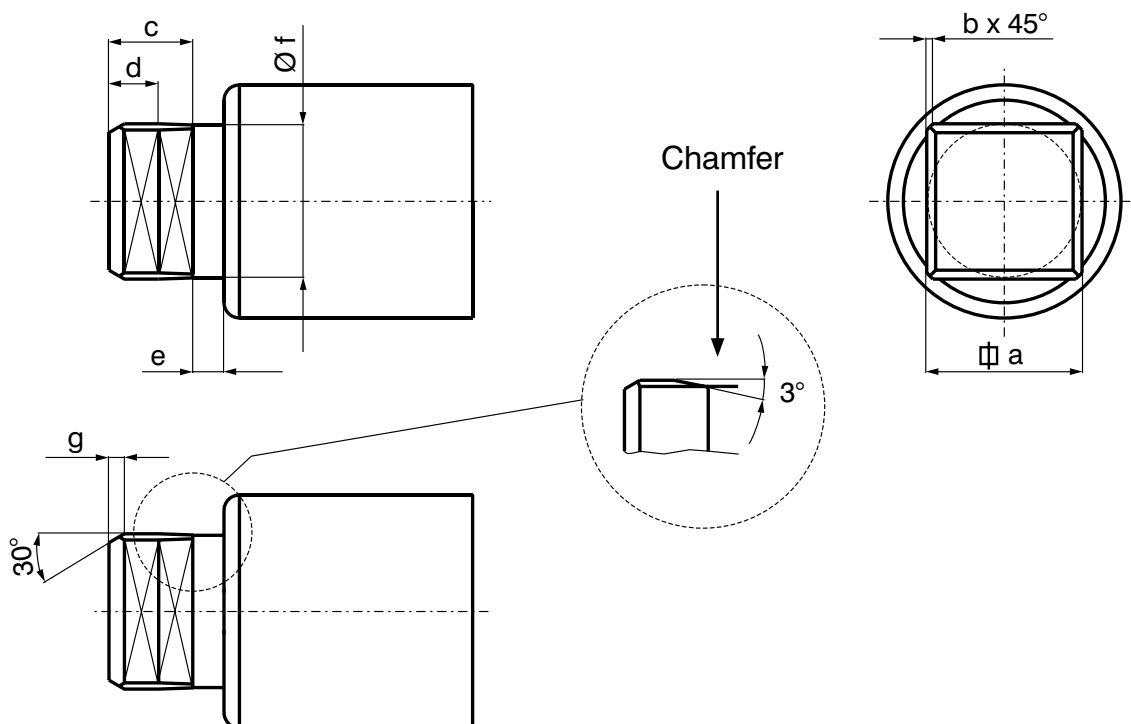
This will cause that the chamfer to be damaged and the winding beam will fall out of the Safety Chuck.

The Safety Chuck has instantly to be changed.

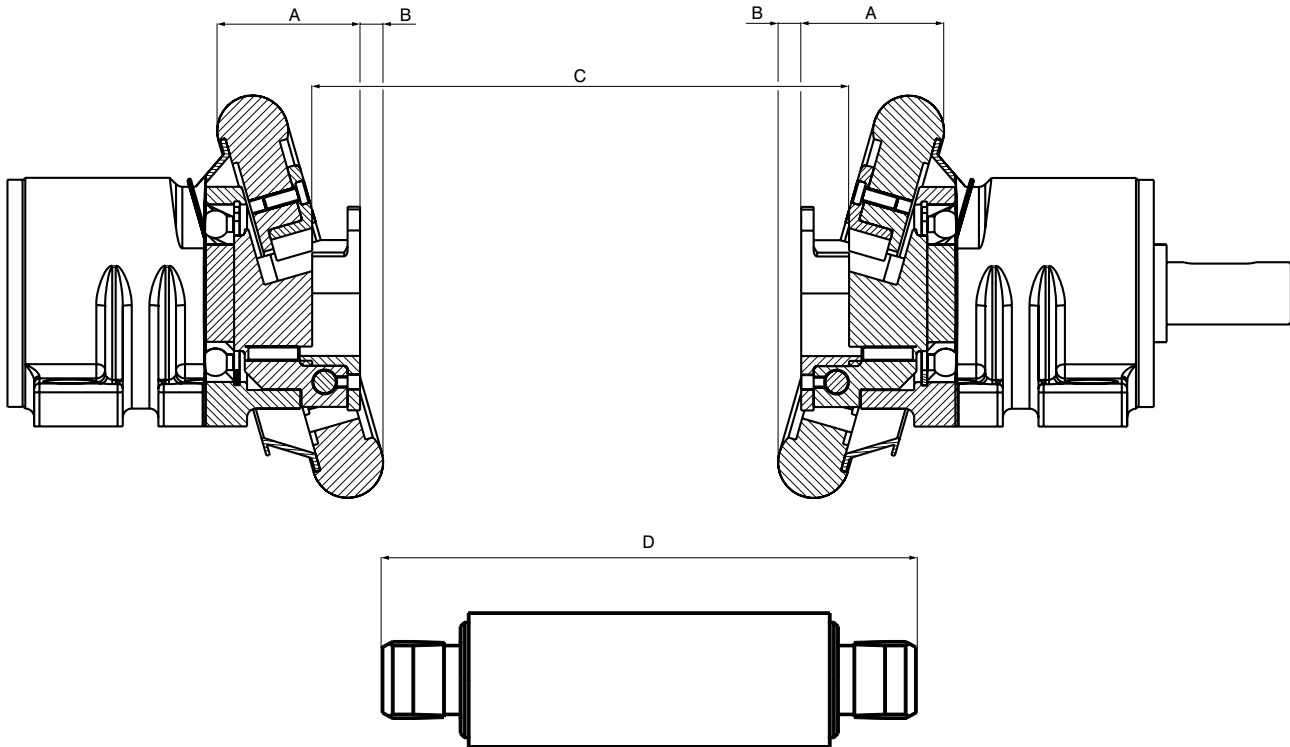
That which causes the handwheel to open has to be analyzed and eliminated.

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

$x$  = min. clearance  
 $y$  = max. clearance

### What to do when the axial wear is too big:

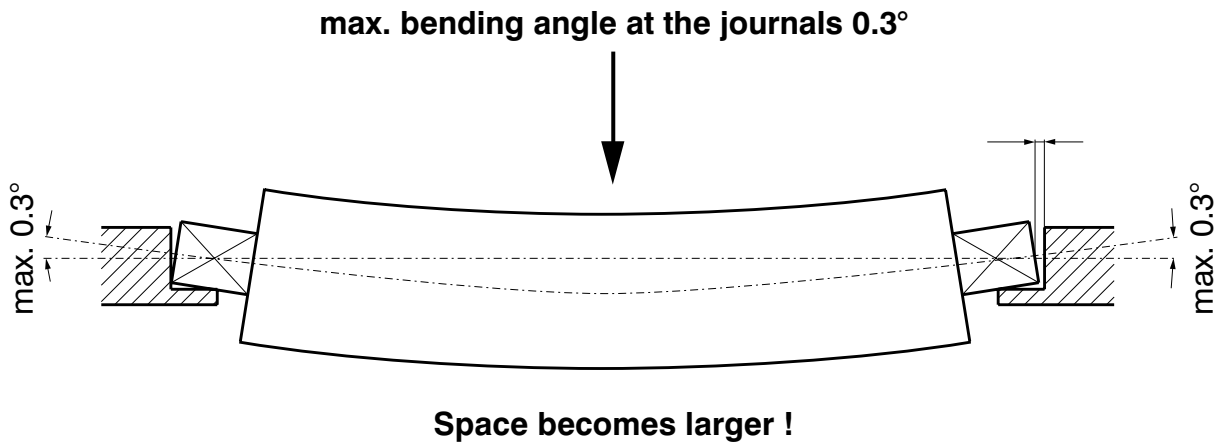
#### On flange chucks:

Place spacer washers between fixing flange and machine frame.

#### On foot mounted chucks:

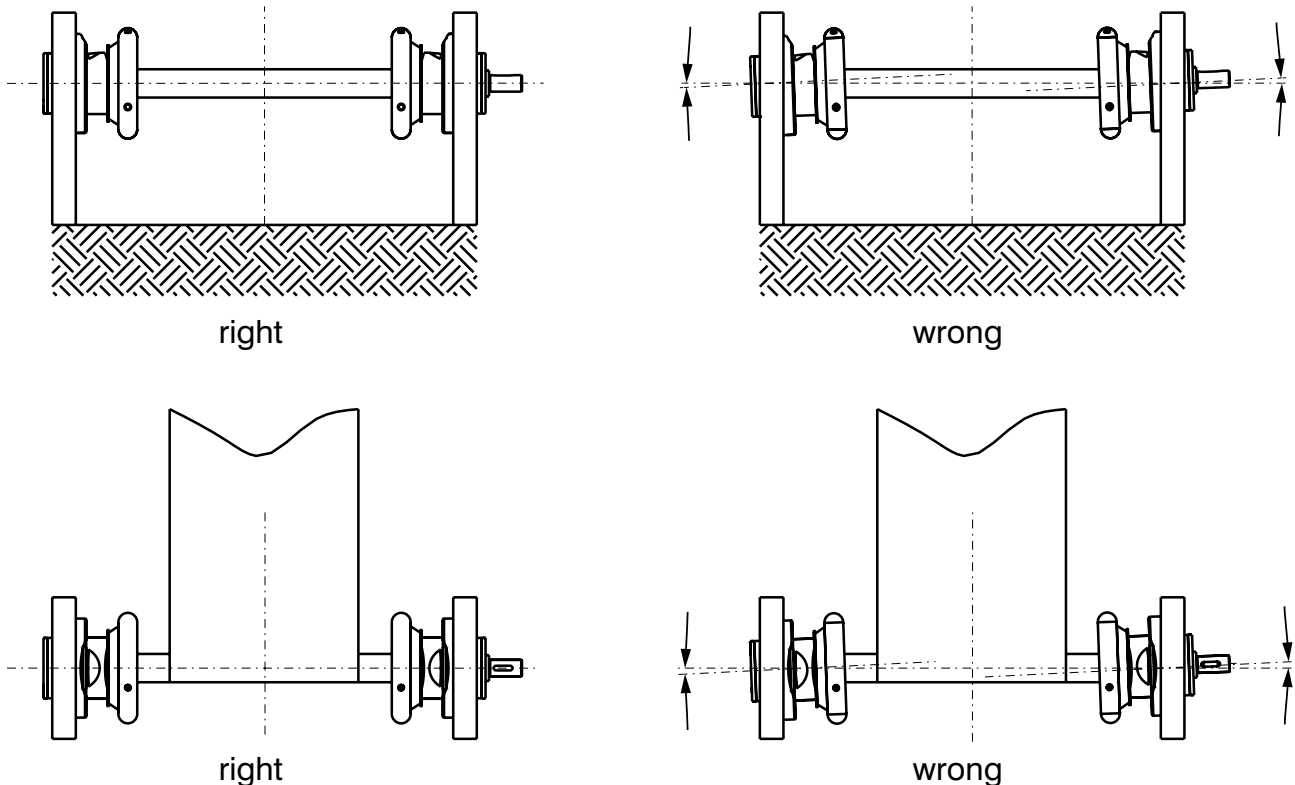
Loosen the fixing screws and modify the clearance of the chucks.

### 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.

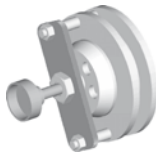
Error description	Possible faults
It is difficult to open and close the hand wheel	<ul style="list-style-type: none"> <li>- The journal was not made to specification as shown on catalogue page 2.10</li> <li>- The journal tolerance is incorrect</li> <li>- There is no chamfer on the ends of the roll shaft</li> <li>- Bent hinge pin</li> <li>- The Safety Chucks are not in alignment</li> <li>- 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.</li> </ul>
Unloaded roll shaft is difficult to rotate when in the Safety Chucks	<ul style="list-style-type: none"> <li>- The journal tolerance is incorrect</li> <li>- The Safety Chucks are not in alignment</li> <li>- The roll shaft journals are out of alignment with each other</li> </ul>
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	<ul style="list-style-type: none"> <li>- The journal tolerance is incorrect</li> <li>- The Safety Chucks are not in alignment</li> <li>- Not enough tolerance between the overall length of the roll shaft and the distance between the Safety Chuck</li> <li>- The seats of the Safety Chucks have been rounded by wear and the roll shaft journals are cocked in the seats causing binding</li> </ul>
The journal is worn. The seat of the Safety Chuck is worn.	<ul style="list-style-type: none"> <li>- Excessive weight and/or excessive torque</li> <li>- Limitations to VT2 insert not complied with</li> <li>- Overload of the chuck</li> <li>- The hardness of the journal and the hardness of the seat of the Safety Chuck are not compatible</li> <li>- The Safety Chucks are not in alignment</li> </ul>

# Trouble shooting

Error description	Possible faults
Noisy operation	<ul style="list-style-type: none"> <li>- The mounting surfaces for the Safety Chucks are not level or are misaligned</li> <li>- The roll shaft journal is falling inside the seat of the Safety Chuck</li> <li>- There is tramp material caught between the hand wheel and the housing</li> </ul>
Empty Safety Chucks are difficult to rotate by hand	<ul style="list-style-type: none"> <li>- The ball bearings are worn out</li> <li>- A drive or brake is engaged on Safety Chucks</li> <li>- The hinge pin is bent inside the hand wheel (see page 5.04 item 5.3)</li> </ul>
<p>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</p> <p><b>Warning:</b> This is a dangerous situation. The roll shaft can now fall out.</p>	<ul style="list-style-type: none"> <li>- no undercut of the journal</li> <li>- axial wear too big</li> <li>- deflection of the winding shaft too big</li> <li>- too much weight or torque</li> <li>- wrong alignment</li> <li>- weight or torque reduction has not been considered at VT2</li> </ul>



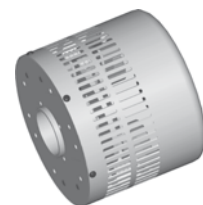
## 6.00 Brake schedule



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

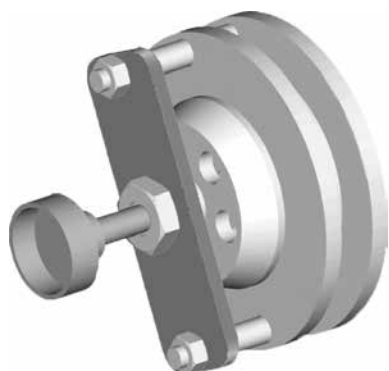
All data is on a basis of 5 bar (15 psi) pressure.

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

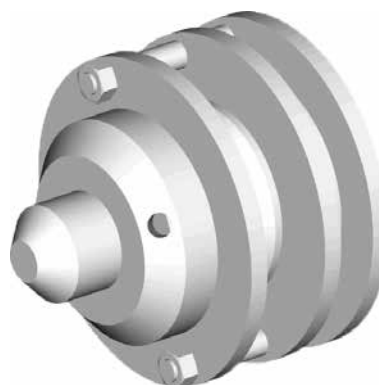




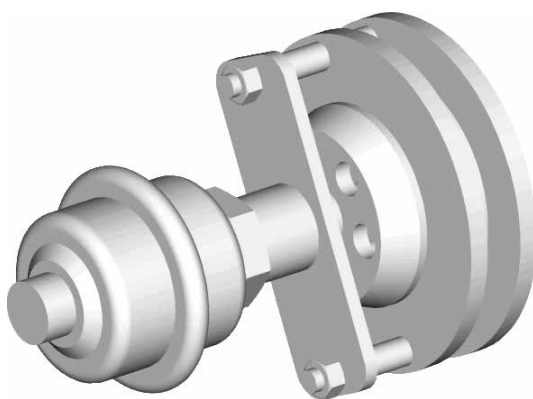
## 6.10 Single disc brake type ESB mini



Single disc brake manual



Single disc brake pneumatic

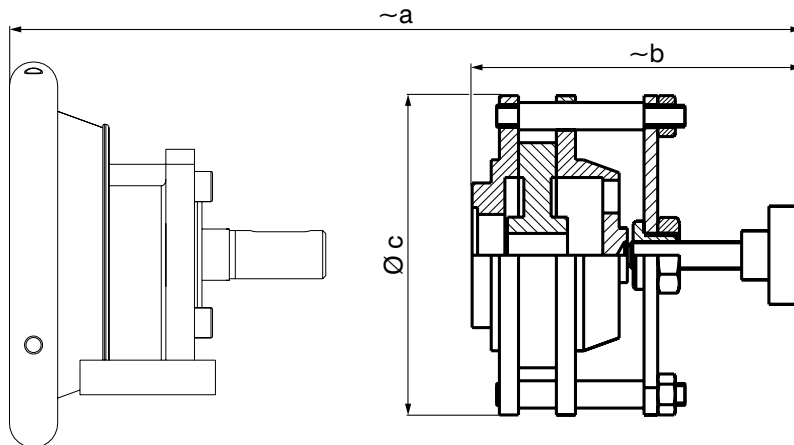


Single disc brake with membrane cylinder I

	ESB Mini		
	manual	pneumatic	membrane I
<b>type mini</b>			
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

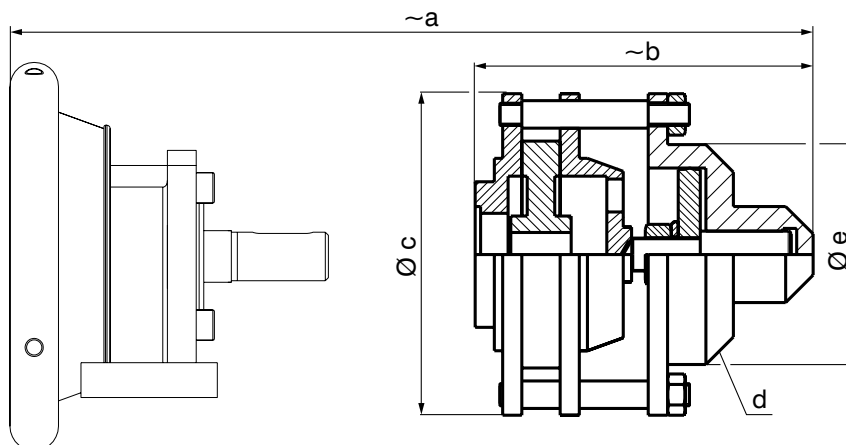


picture of chuck just symbolic

	a	b	c
<b>Mini Chuck + ESB manual</b>	174	110	117

Dimension schedule for Boschert-Chuck see chapter 2.00

### Mini Chuck with pneumatic single disc brake



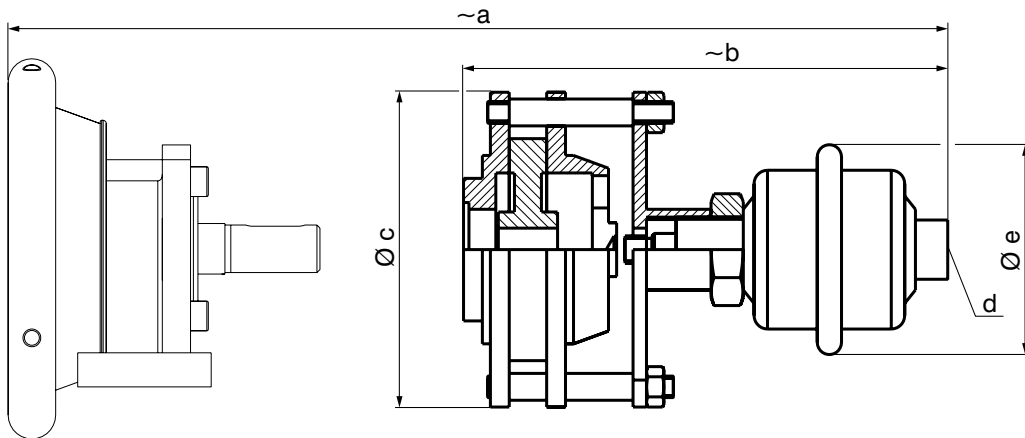
picture of chuck just symbolic

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

Dimension schedule for Boschert-Chuck see chapter 2.00

# ESB mini and membrane cylinder I

## Mini chuck with single disc brake and membrane cylinder I

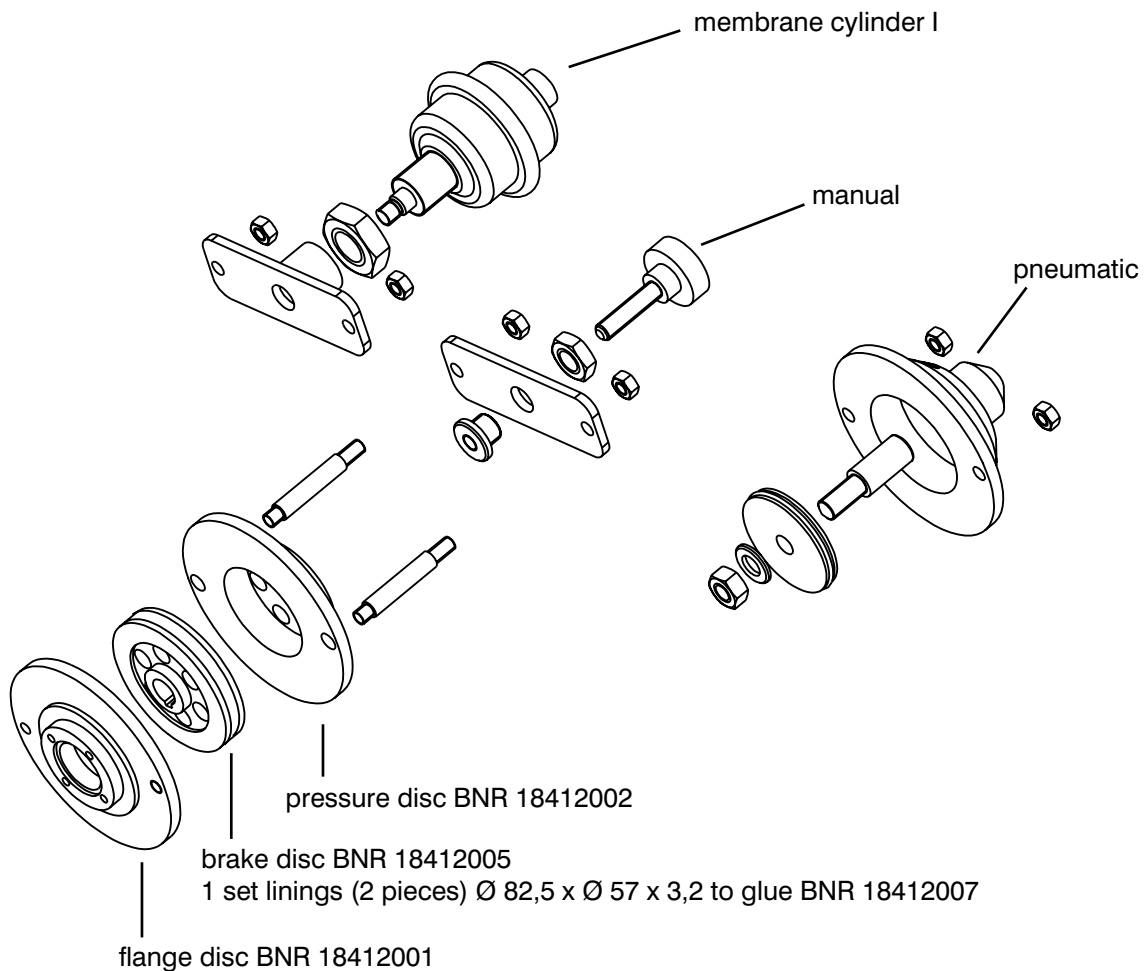
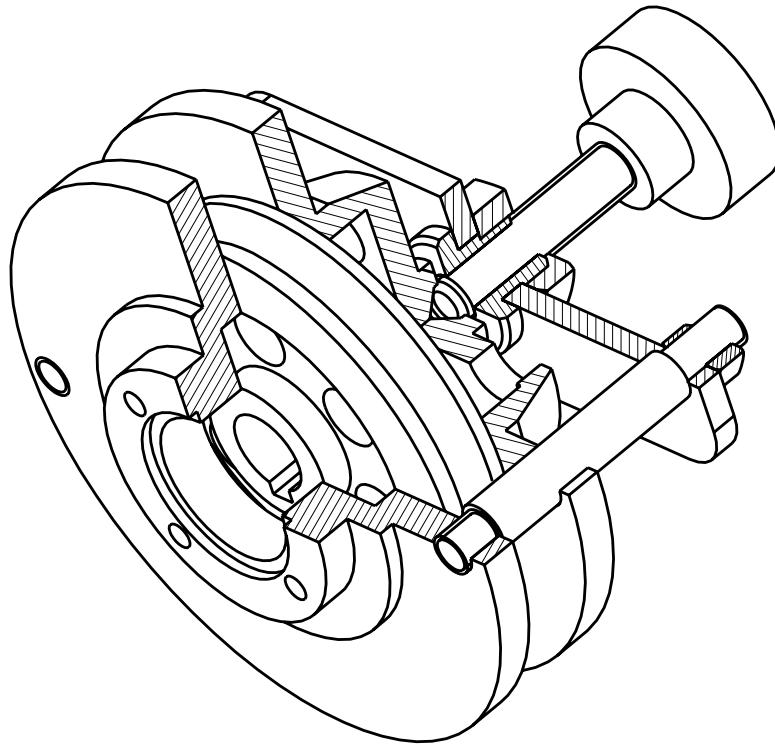


picture of chuck just symbolic

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

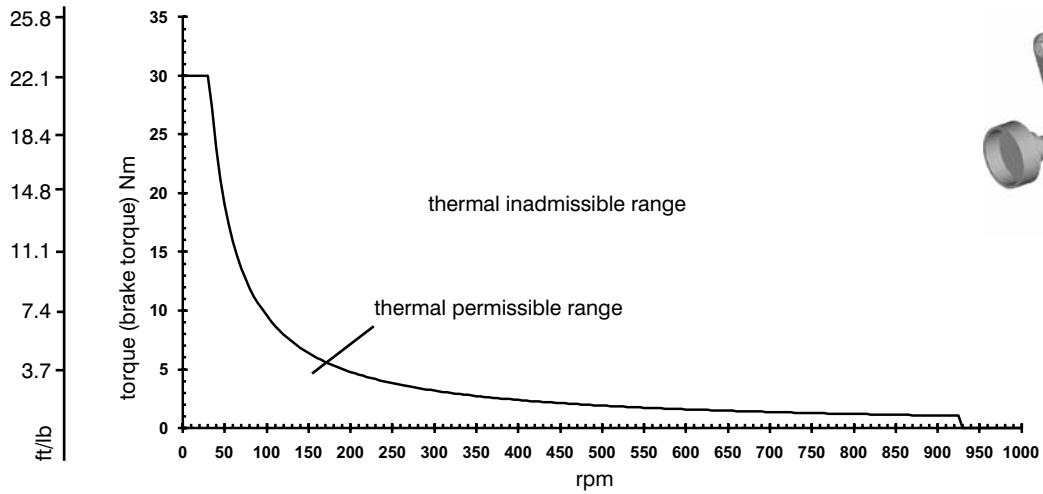
Dimension schedule for Boschert-Chuck see chapter 2.00

# ESB mini wearing-parts

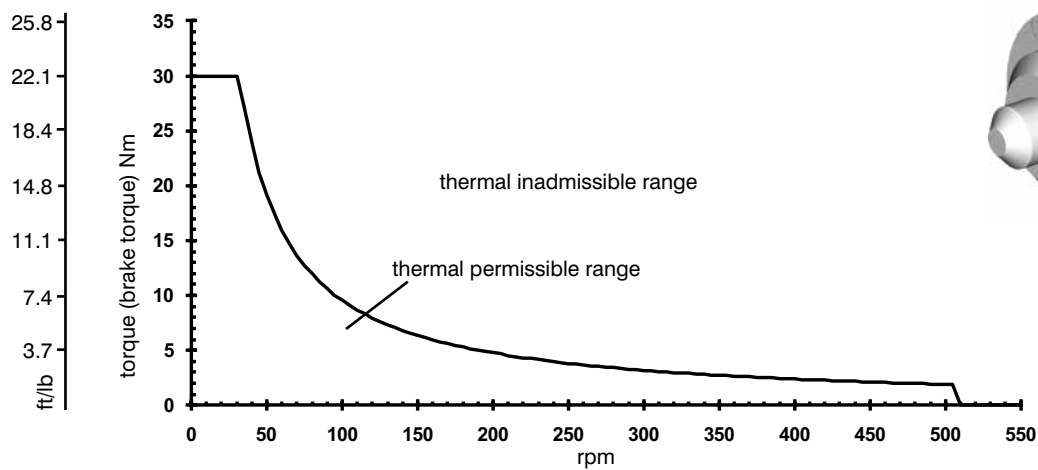


# ESB Mini performance diagrams

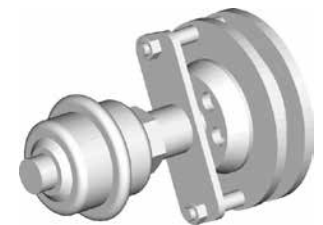
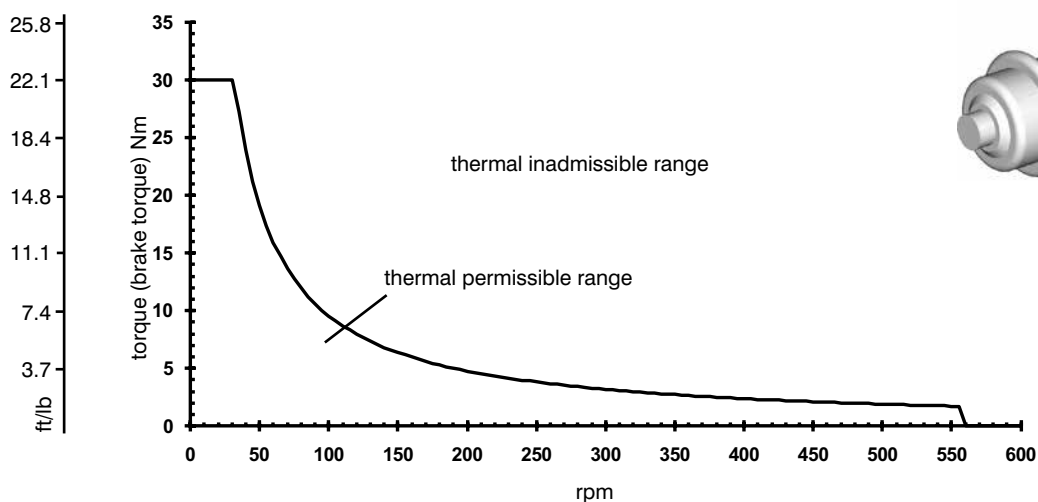
## ESB Mini manual



## ESB Mini pneumatic



## ESB Mini membrane I



1 Nm = 0.7376 ft/lb

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

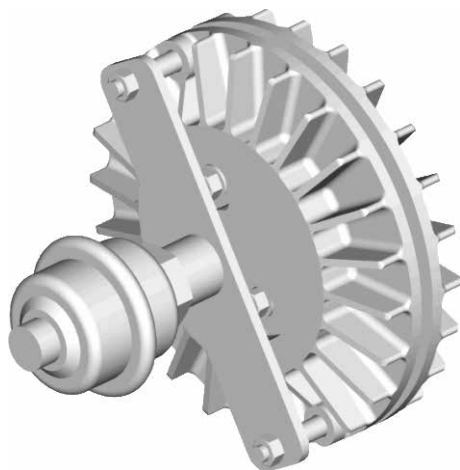
## 6.20 Single disc brake type ESB



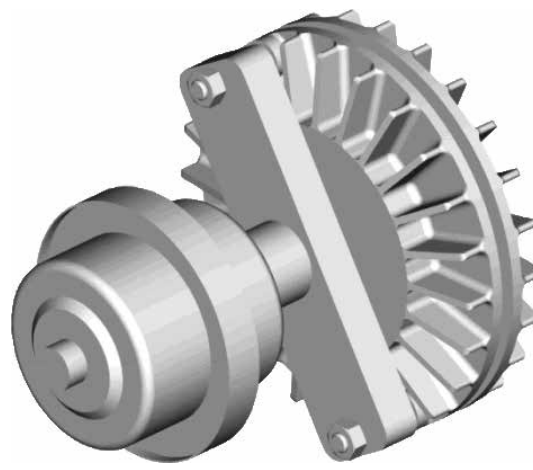
Single disc brake manual



Single disc brake pneumatic



Single disc brake with membrane cylinder I

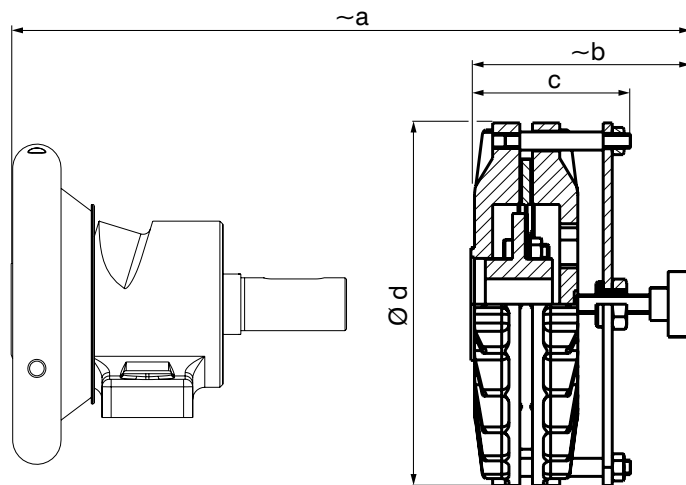


Single disc brake with membrane cylinder II

	ESB			
	manual	pneumatic	membrane I	membrane II
<b>type 19-25</b>				
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)
<b>type 22-30</b>				
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)
<b>type 30-40 / A40</b>				
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)
<b>type 40-50 / A50</b>				
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

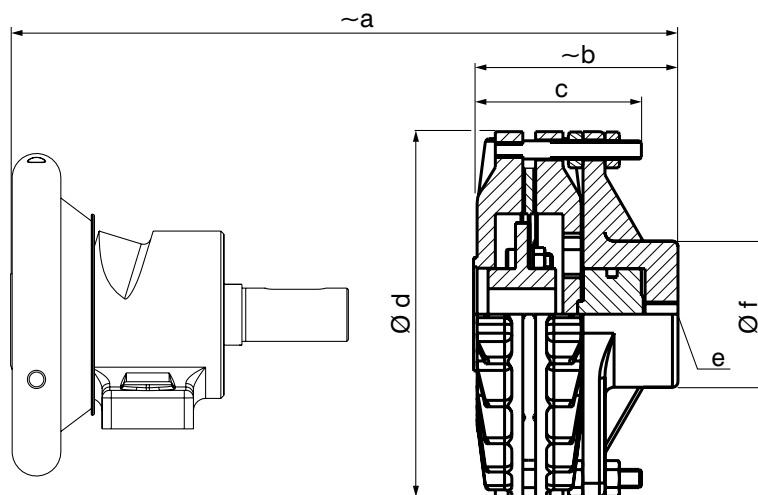


picture of chuck just symbolic

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

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40

### Safety chuck with pneumatic single disc brake



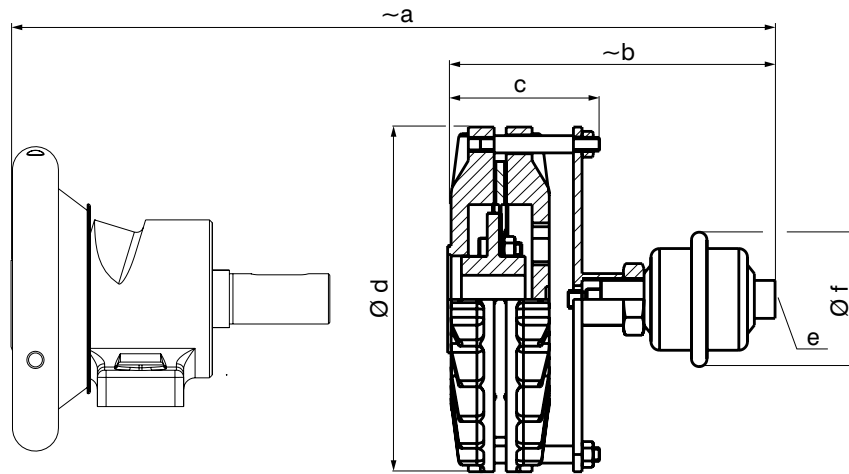
picture of chuck just symbolic

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

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40

# ESB and membrane cylinder I / II

## Safety chuck with single disc brake and membrane cylinder I

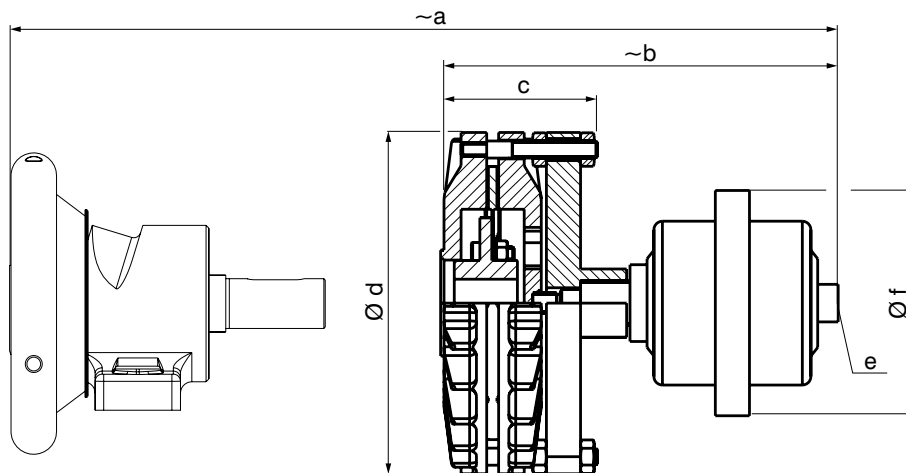


picture of chuck just symbolic

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



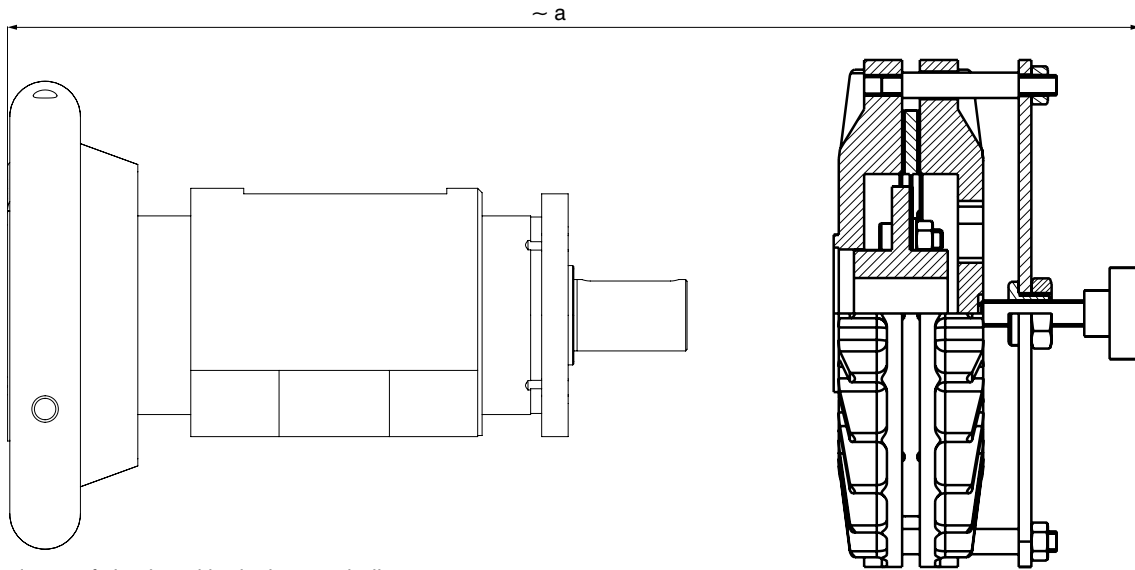
picture of chuck just symbolic

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



picture of chuck and brake just symbolic

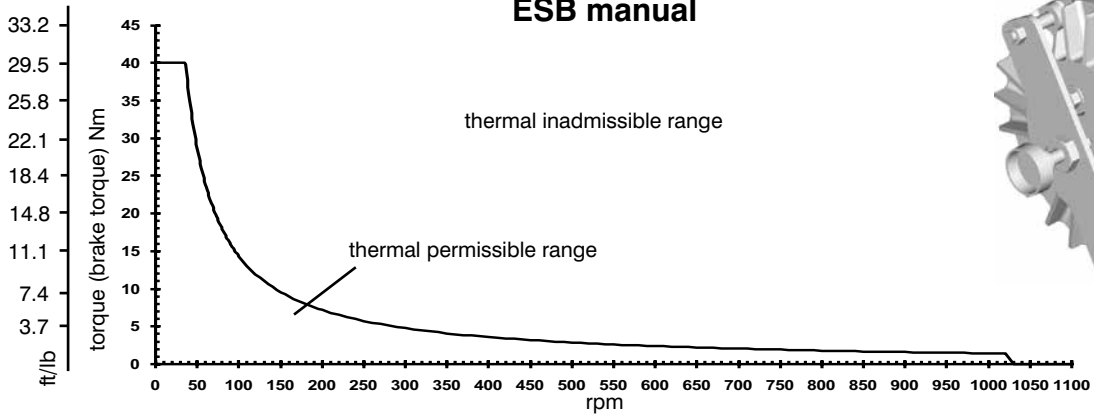
overall dimension „a“  
for Boschert Sliding-, A- and P-Chuck (flange- and foot mounted chuck)

	ESB				chuck dim. on page
	manual	pneumatic	membrane I	membrane II	
<b>brake dim. on page</b>	6.21	6.21	6.22	6.22	
<b>Sliding-Chuck</b>					
<b>22-30</b>					
50 mm adjustment	369	361	428	484	3.03 - 3.06
100 mm adjustment	469	461	528	584	3.03 - 3.06
<b>30-40</b>					
50 mm adjustment	371	364	426	482	3.03 - 3.06
100 mm adjustment	471	464	526	582	3.03 - 3.06
<b>40-50</b>					
50 mm adjustment	397	393.5	462	513	3.03 - 3.06
100 mm adjustment	497	493.5	562	613	3.03 - 3.06
<b>A Chuck</b>					
A40	258	250	315	371	4.21 - 4.22
A50	327	324	396	440	4.31 - 4.32
<b>P Chuck</b>					
P40	338	330	395	451	4.61 - 4.62
P50	393	330	455	506	4.71 - 4.72

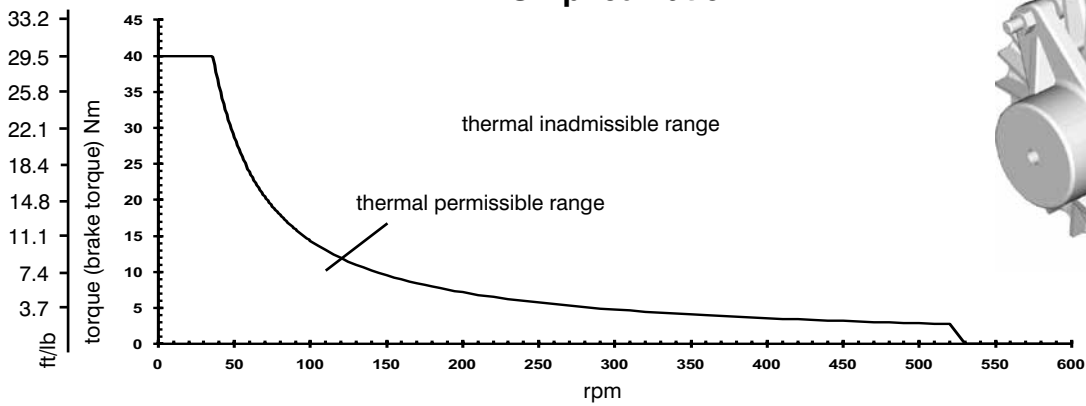
A Chucks = A Series Pneumatic Safety Chucks  
P Chucks = P Series Pneumatic Safety Chucks

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

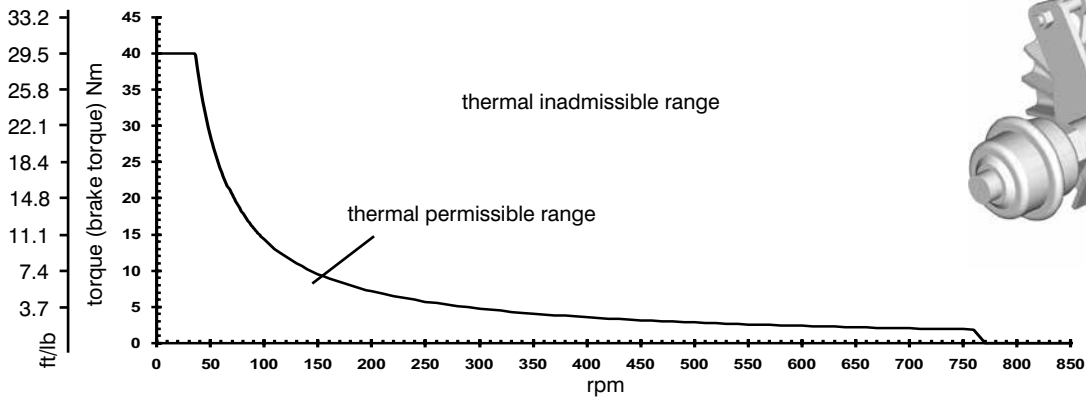
## ESB manual



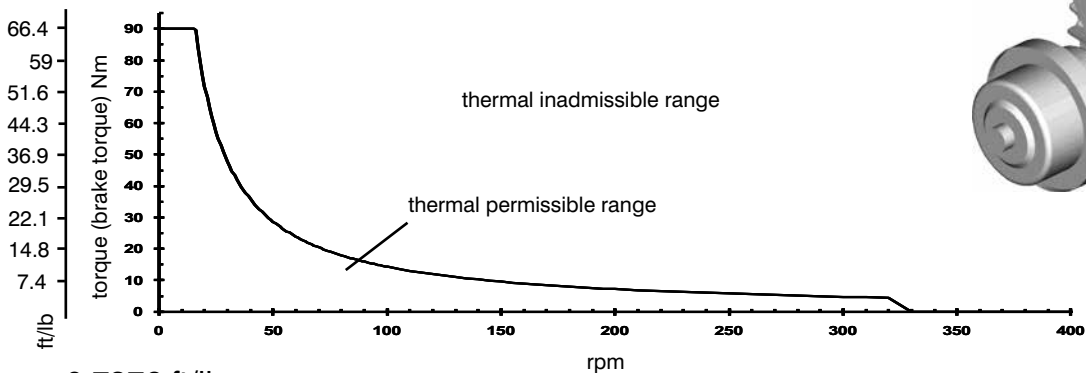
## ESB pneumatic



## ESB membrane I



## ESB membrane II



1 Nm = 0.7376 ft/lb

Mattenstrasse 1  
D-79541 Loerrach-Hauingen

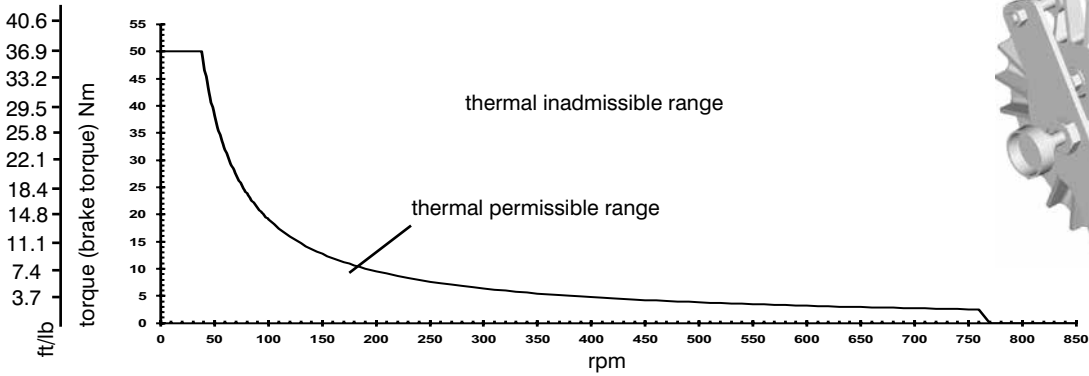
infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

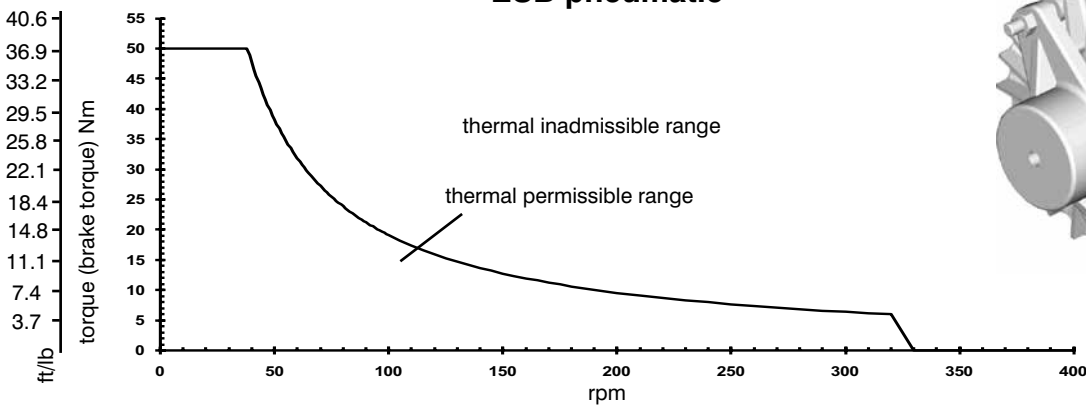
# ESB performance diagrams type 40-50



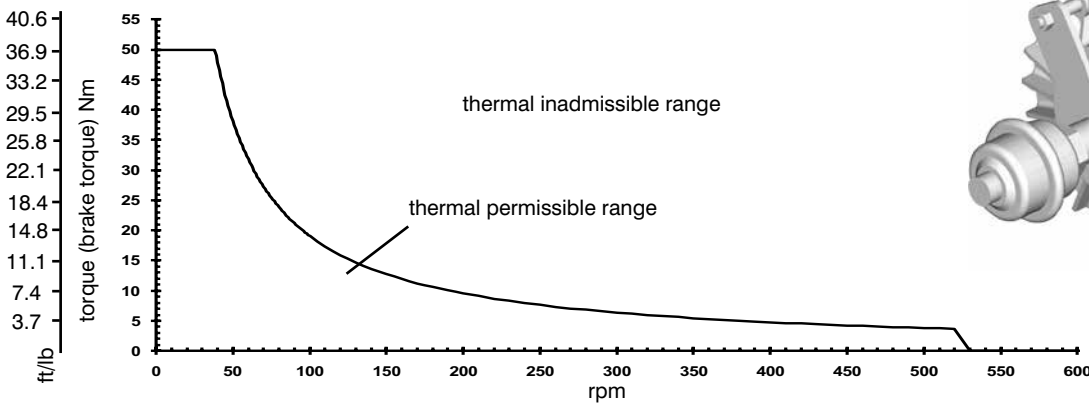
## ESB manual



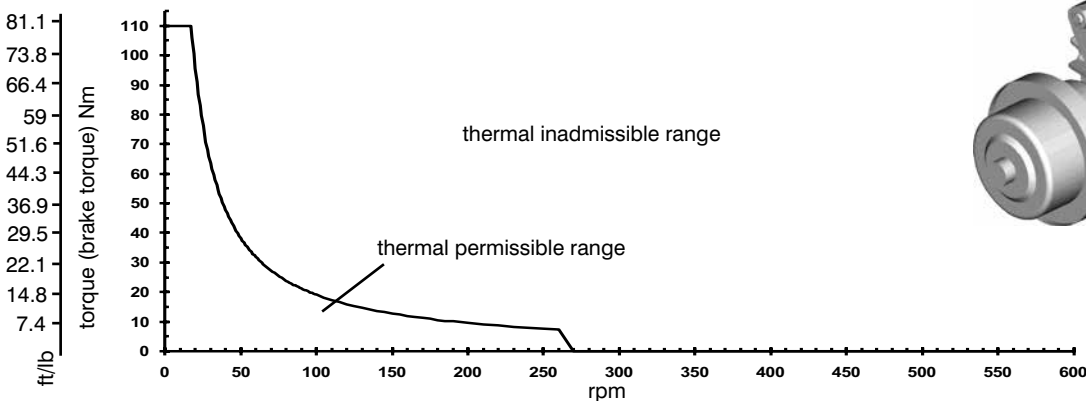
## ESB pneumatic



## ESB membrane I



## ESB membrane II



1 Nm = 0.7376 ft/lb

6.25

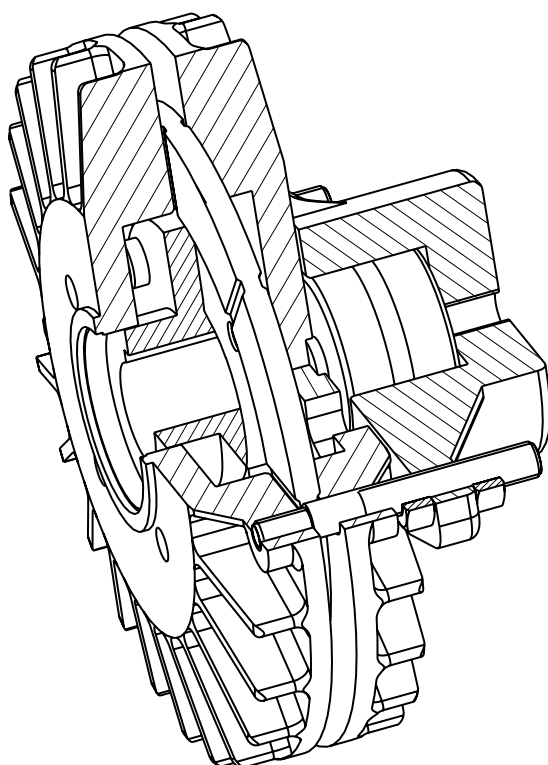
Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

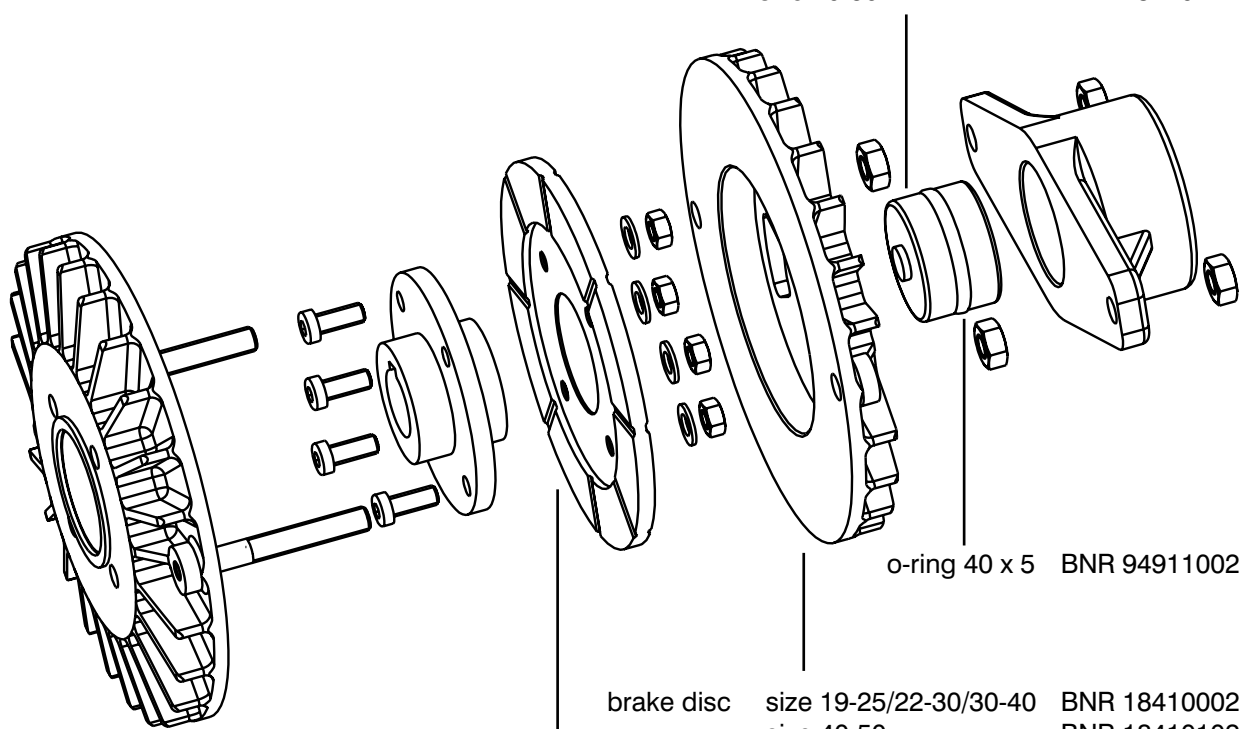
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4



# ESB pneumatic wearing-parts



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



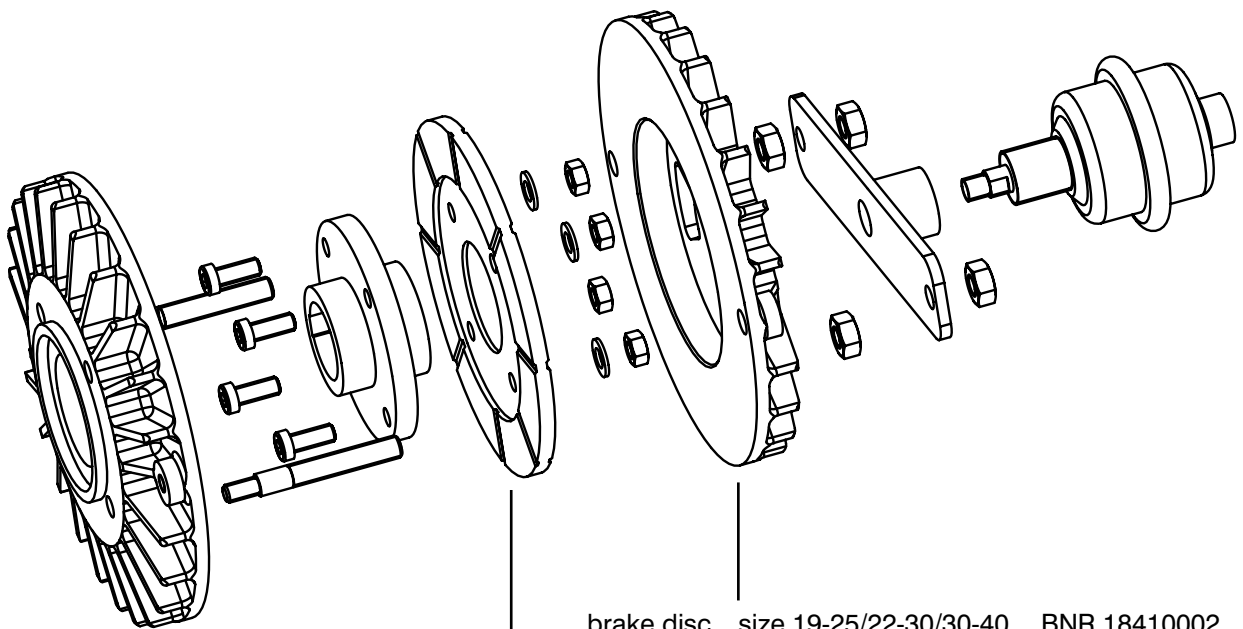
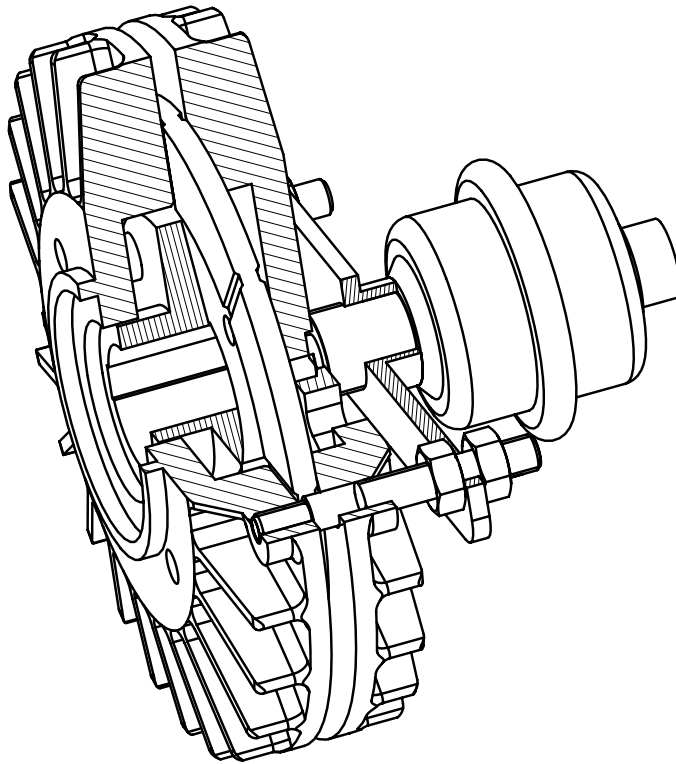
o-ring 40 x 5 BNR 94911002

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

brake lining size 19-25/22-30/30-40  $\varnothing 160 \times \varnothing 50 \times 7$  BNR 18410008  
size 40-50  $\varnothing 180 \times \varnothing 75 \times 7$  BNR 18410108

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

# ESB membrane I wearing-parts

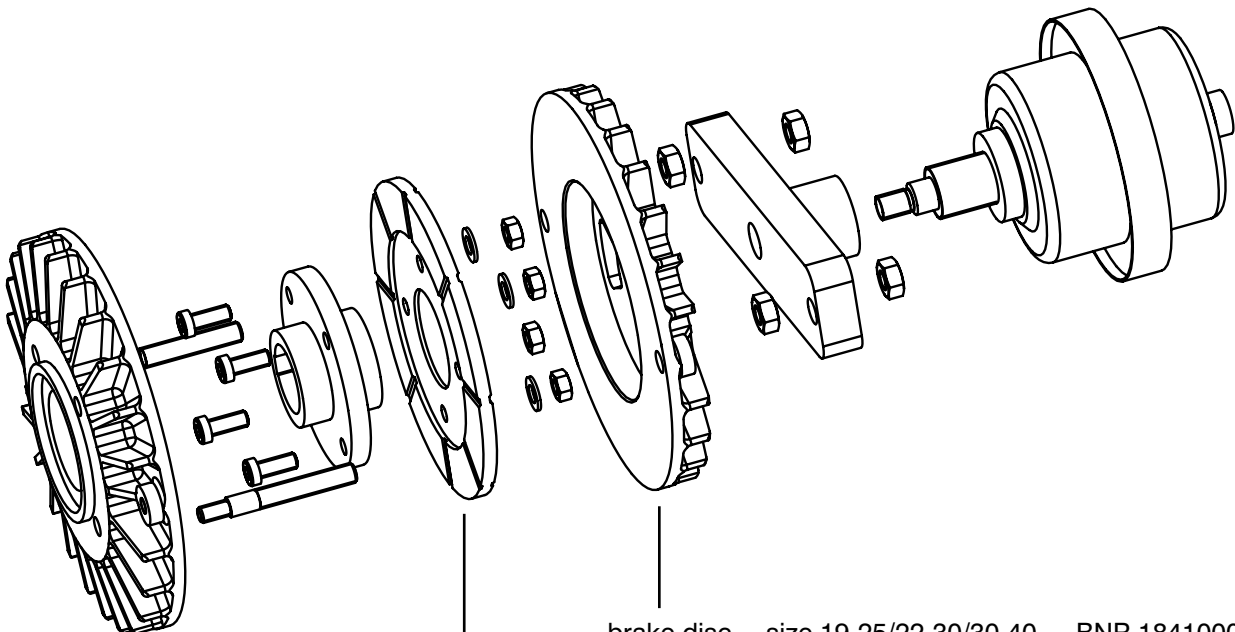
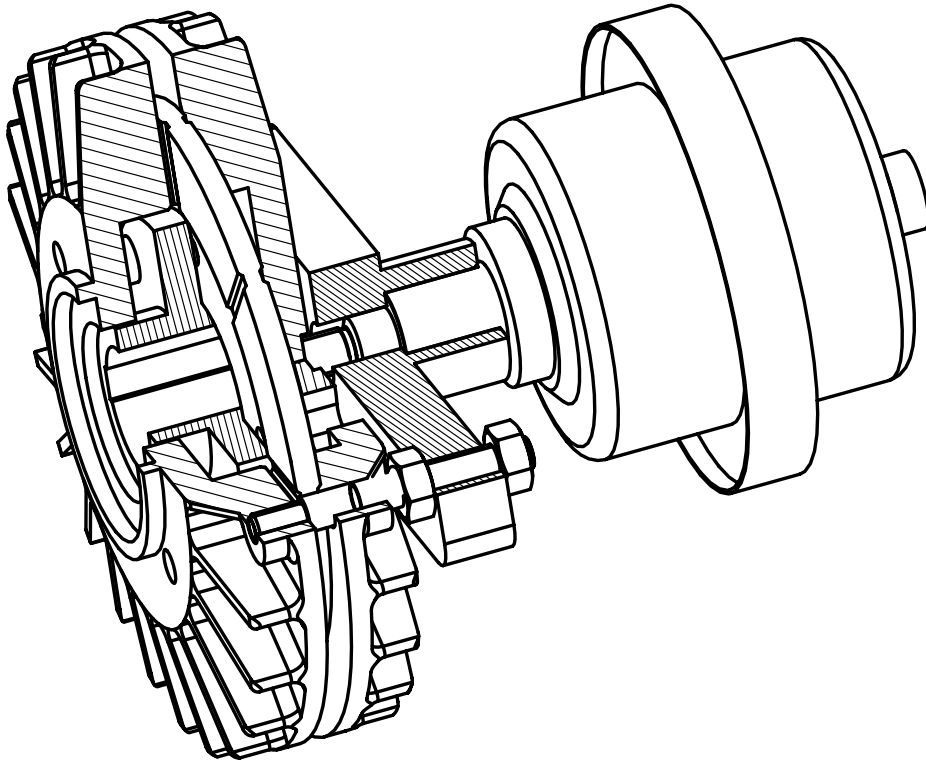


flange disc size 19-25/22-30/30-40 BNR 18410001  
size 40-50 BNR 18410101

brake lining size 19-25/22-30/30-40  $\varnothing 160 \times \varnothing 50 \times 7$  BNR 18410008  
size 40-50  $\varnothing 180 \times \varnothing 75 \times 7$  BNR 18410108

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

# ESB membrane II wearing-parts



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

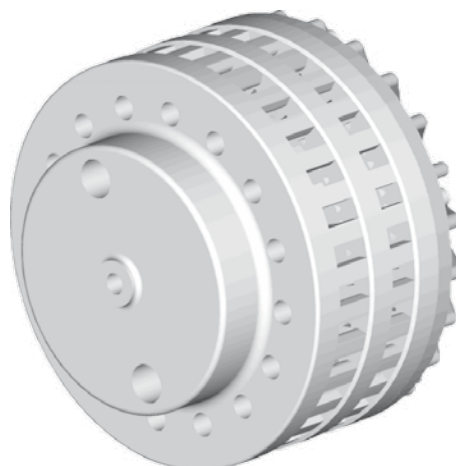
brake lining size 19-25/22-30/30-40 Ø160 x Ø50 x 7 BNR 18410008  
size 40-50 Ø180 x Ø75 x 7 BNR 18410108

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

## 6.40 Double disc brake type DSB



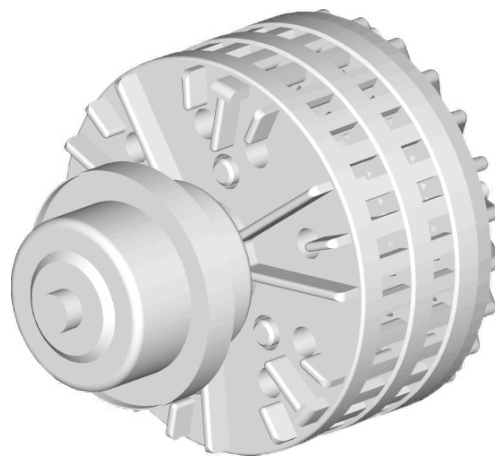
Double disc brake manual



Double disc brake pneumatic



Double disc brake with membrane cylinder I



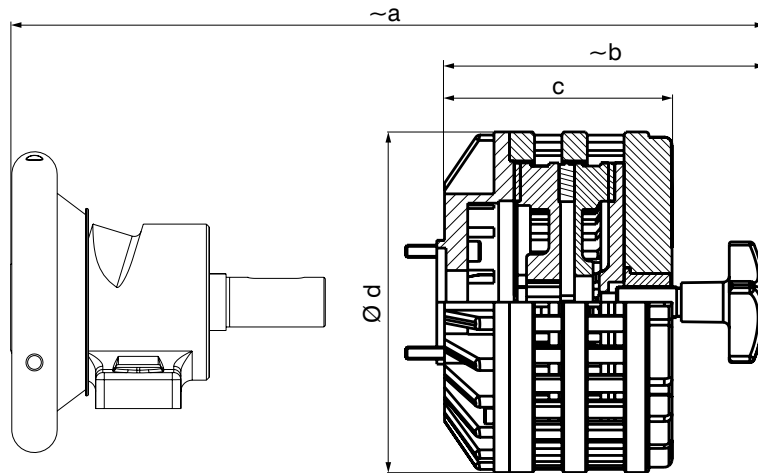
Double disc brake with membrane cylinder II

	DSB			
	manual	pneumatic	membrane I	membrane II
<b>type 30-40 / A40 / P40</b>				
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)
<b>type 40-50 / A50 / P50</b>				
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)
<b>type 50-80 / A80</b>				
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

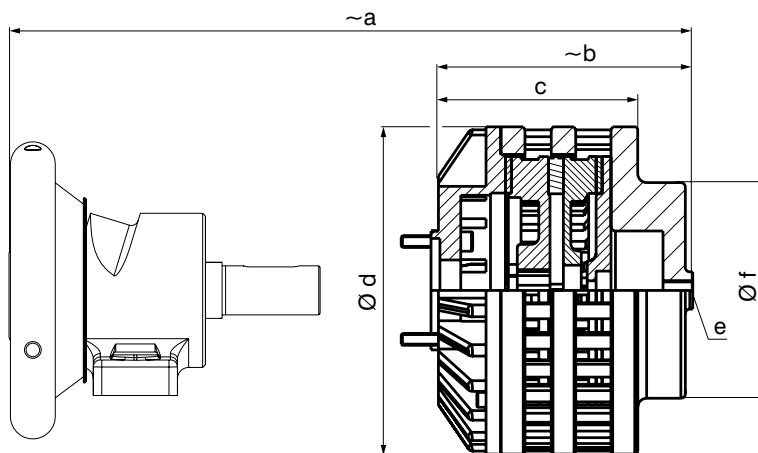


picture of chuck just symbolic

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

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50

### Safety Chuck with pneumatic double disc brake



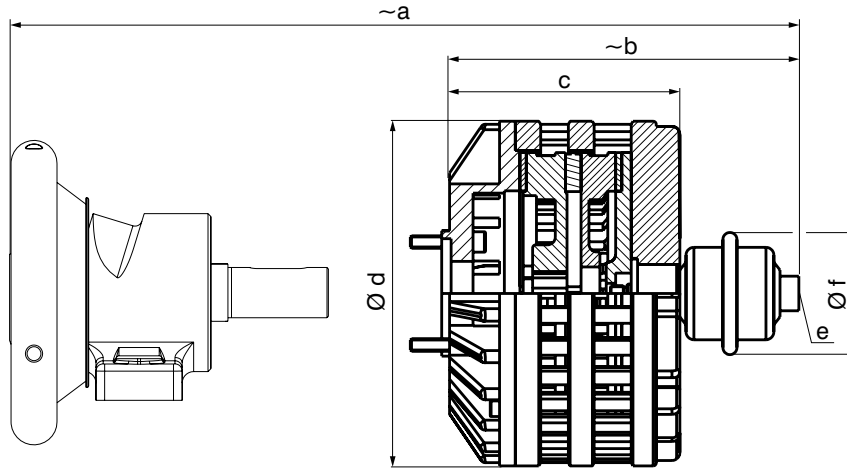
picture of chuck just symbolic

	a	b	c	d	e	f
<b>Safety Chuck 30-40 + DSB pneumatic</b>	310	170	147	200	G 1/4	145
<b>Safety Chuck 40-50 + DSB pneumatic</b>	361	170	147	200	G 1/4	145
<b>Safety Chuck 50-80 + DSB pneumatic</b>	430	170	147	235	G 1/4	145

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50

# DSB membrane cylinder I / DSB membrane cylinder II

## Safety Chuck with double disc brake and membrane cylinder I

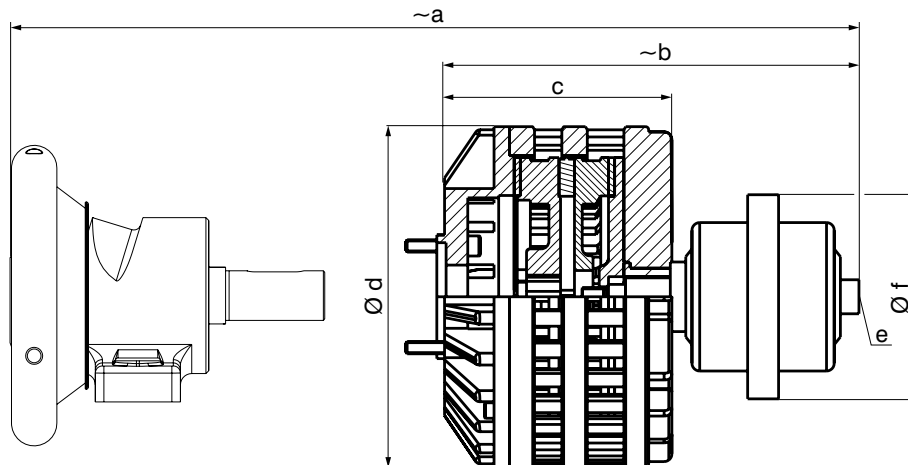


picture of chuck just symbolic

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

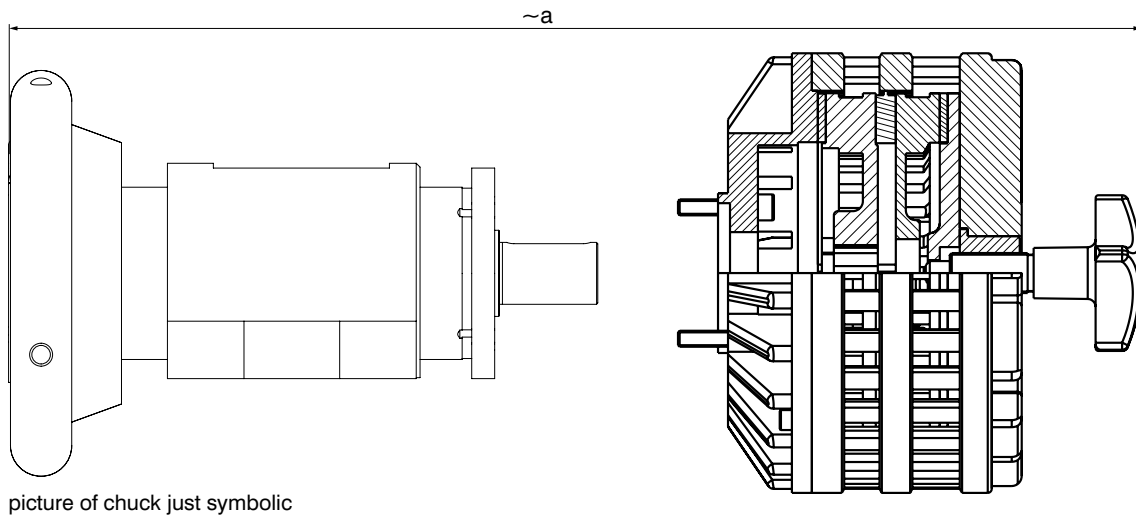


picture of chuck just symbolic

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



picture of chuck just symbolic

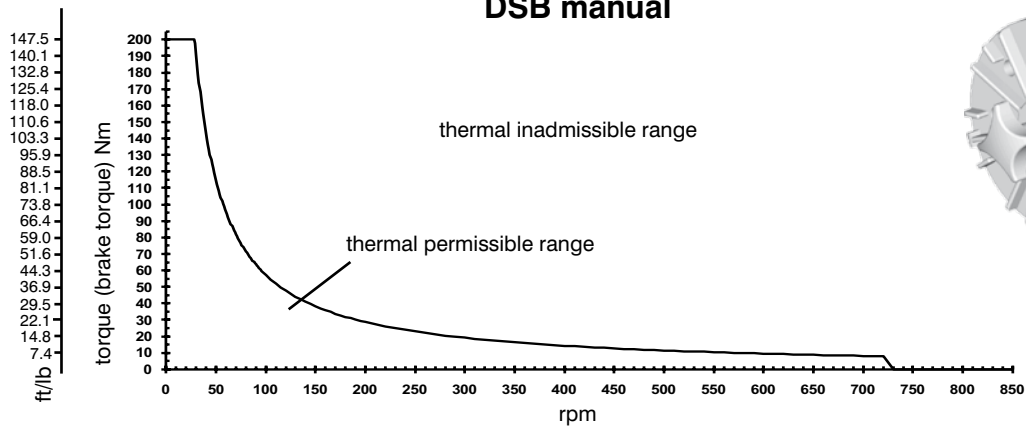
overall dimension „a“  
for Boschert Sliding -, A- and P-Chuck (flange- and foot mounted chuck)

	DSB				chuck dim. on page
	manual	pneumatic	membrane I	membrane II	
<b>brake dim. on page</b>	6.41	6.41	6.42	6.42	
<b>Sliding-Chuck</b>					
<b>30-40</b>					
50 mm adjustment	469	424	480	540	3.03 - 3.06
100 mm adjustment	569	524	580	640	3.03 - 3.06
<b>40-50</b>					
50 mm adjustment	472	430	485	546	3.03 - 3.06
100 mm adjustment	575	530	585	646	3.03 - 3.06
<b>A Chuck</b>					
A40	365	325	375	435	4.21 - 4.22
A50	412	370	423	483	4.31 - 4.32
A80	492	450	503	563	4.41 - 4.42
<b>P Chuck</b>					
P40	432	390	438	495	4.61 - 4.62
P50	468	426	507	539	4.71 - 4.72

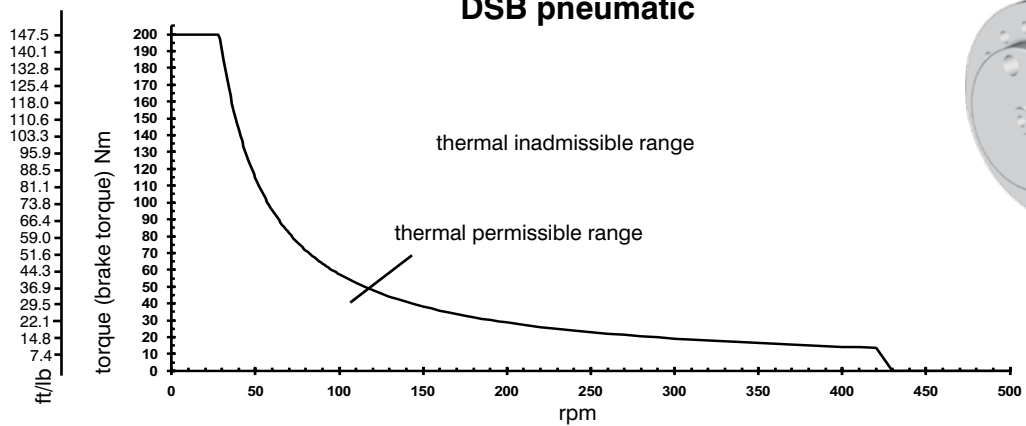
A Chucks = A Series Pneumatic Safety Chucks  
P Chucks = P Series Pneumatic Safety Chucks

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

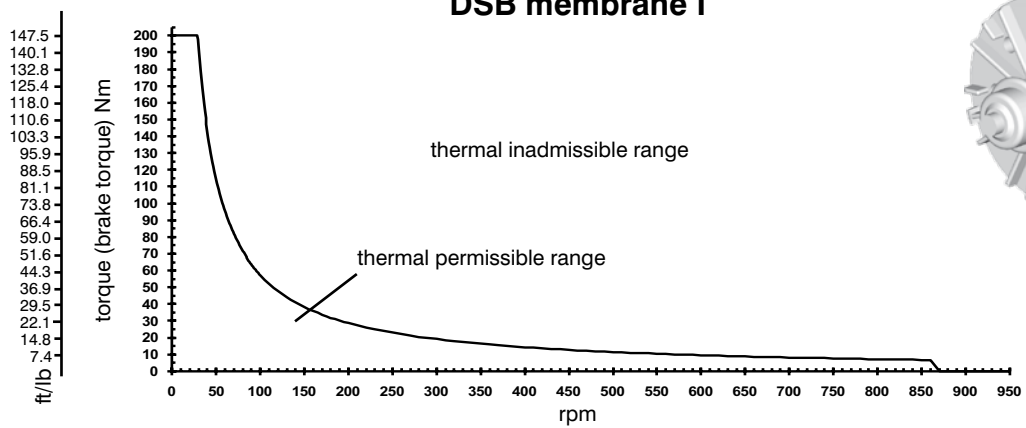
## DSB manual



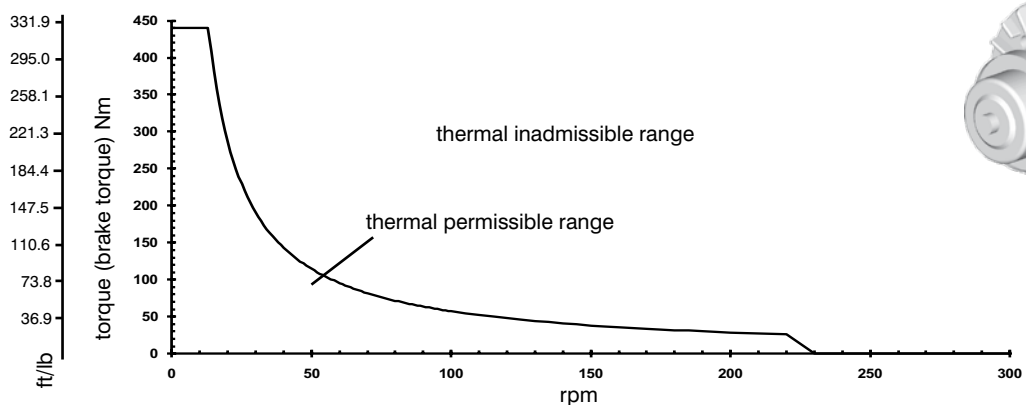
## DSB pneumatic

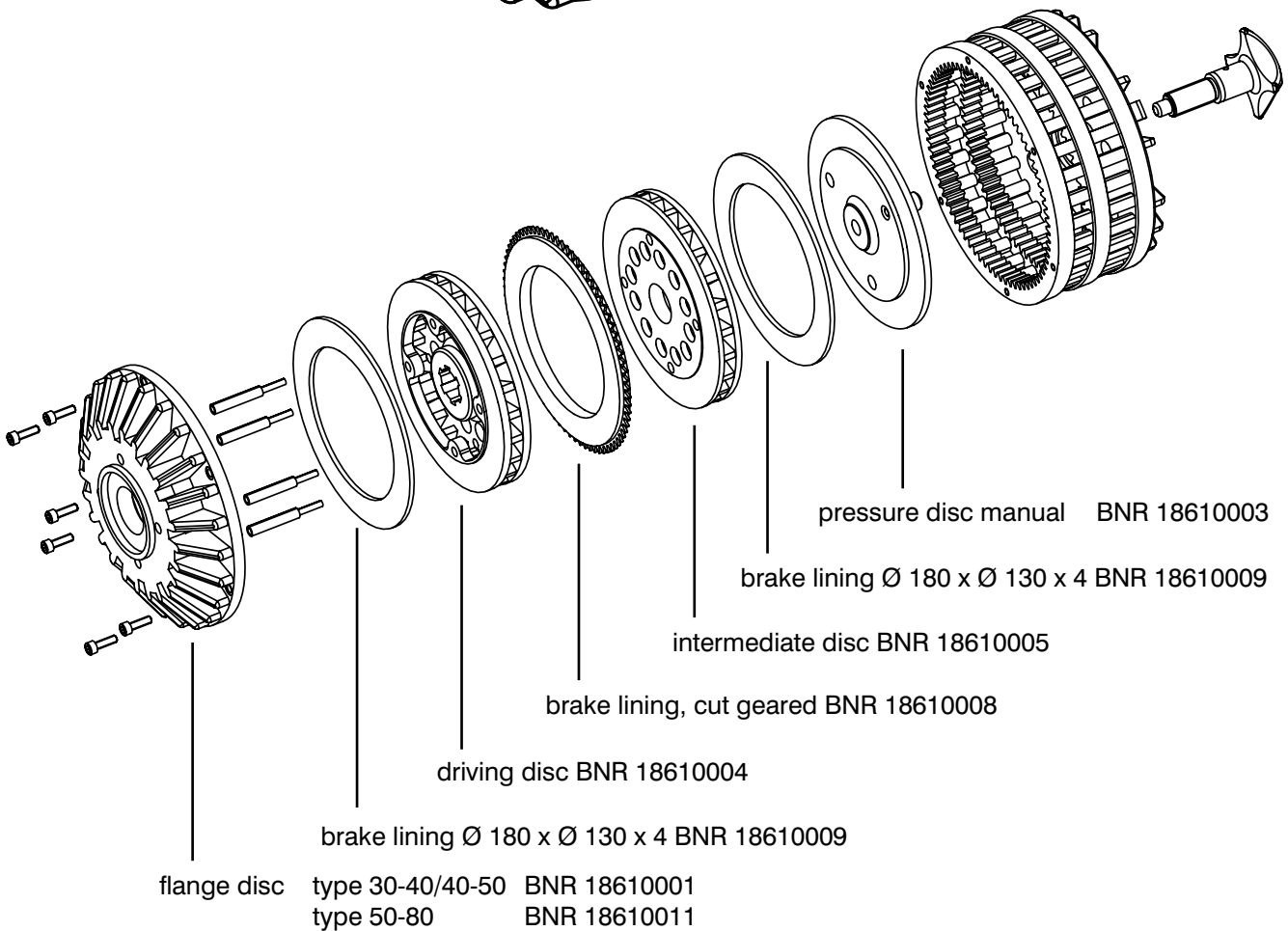
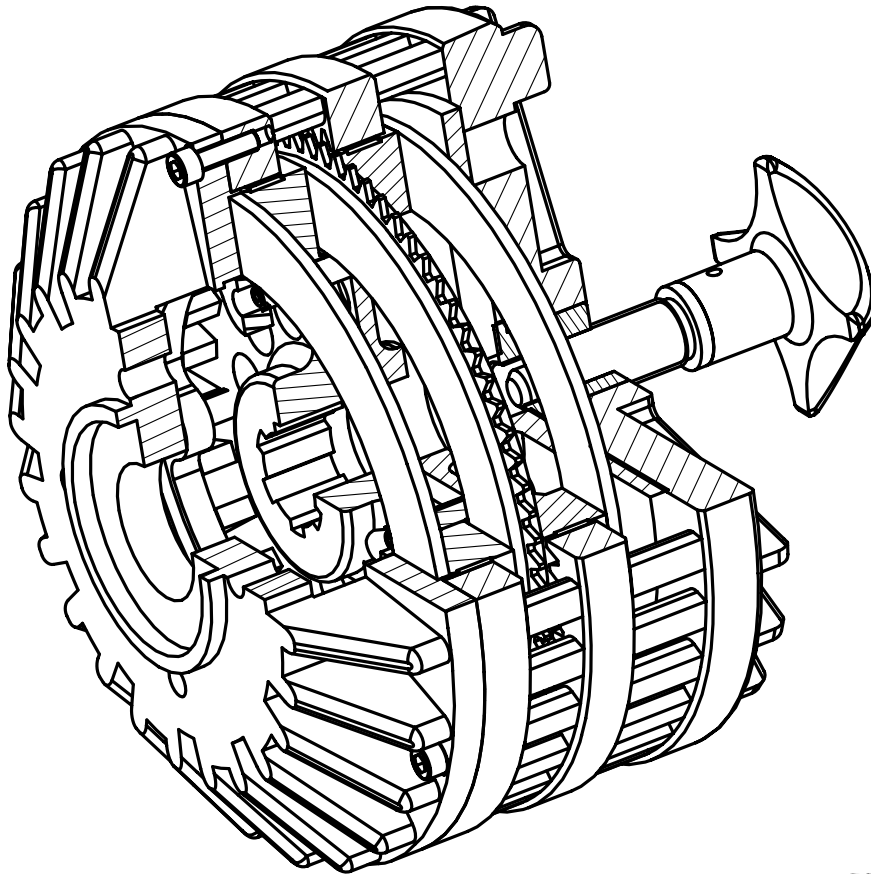


## DSB membrane I

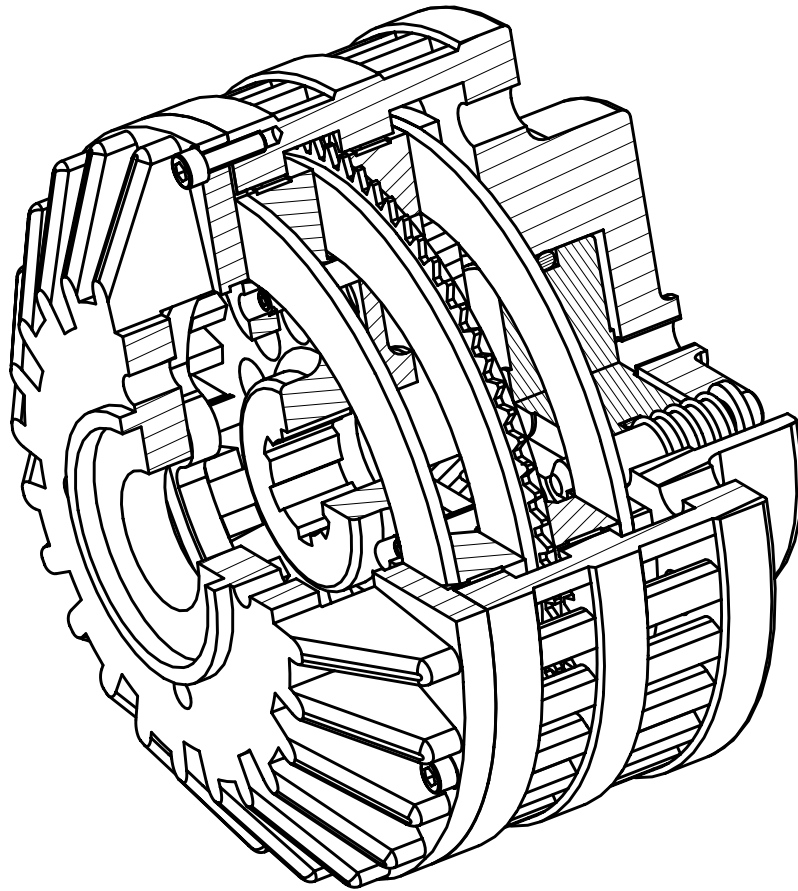


## DSB membrane II

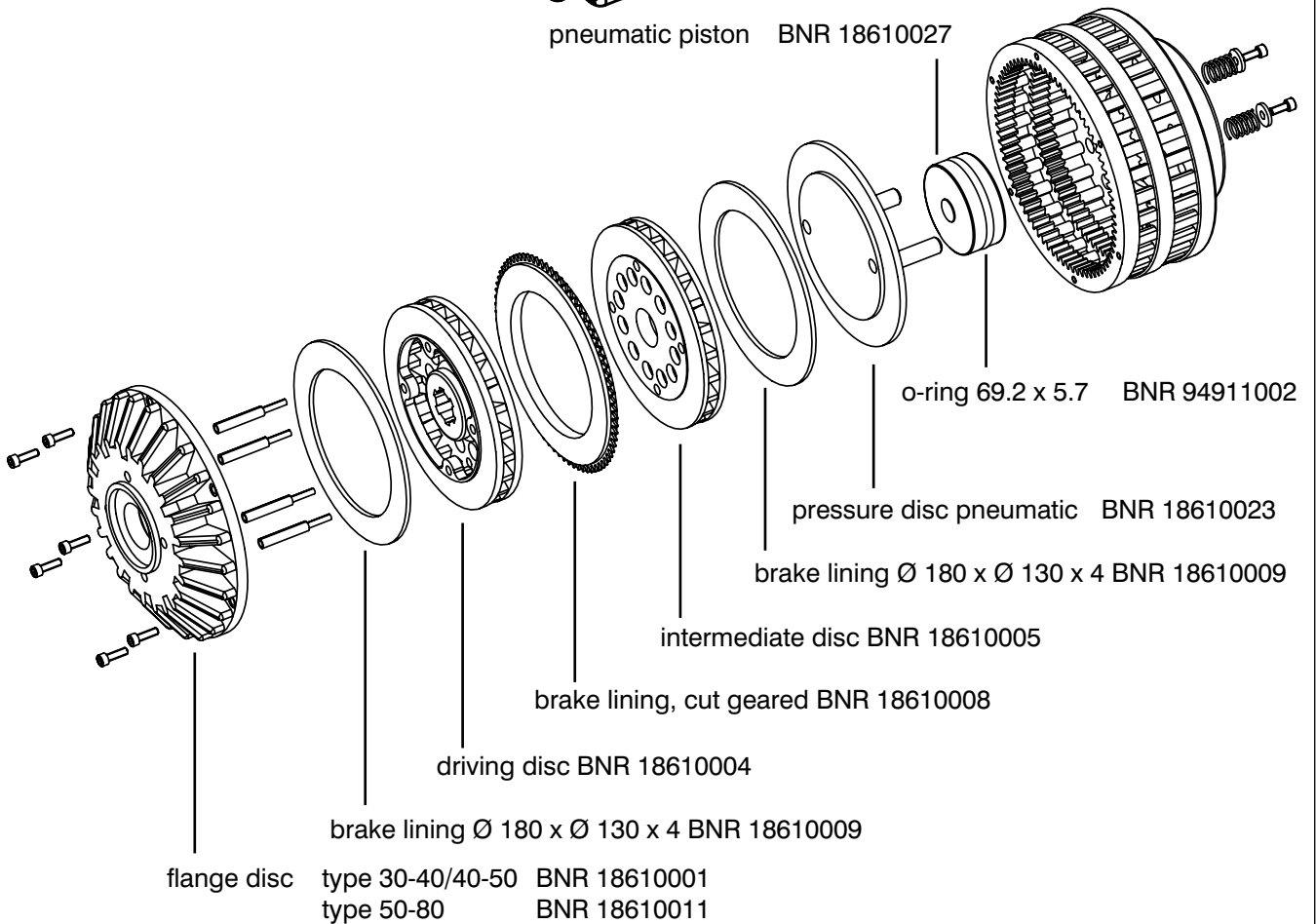




# DSB pneumatic wearing-parts



pneumatic piston BNR 18610027



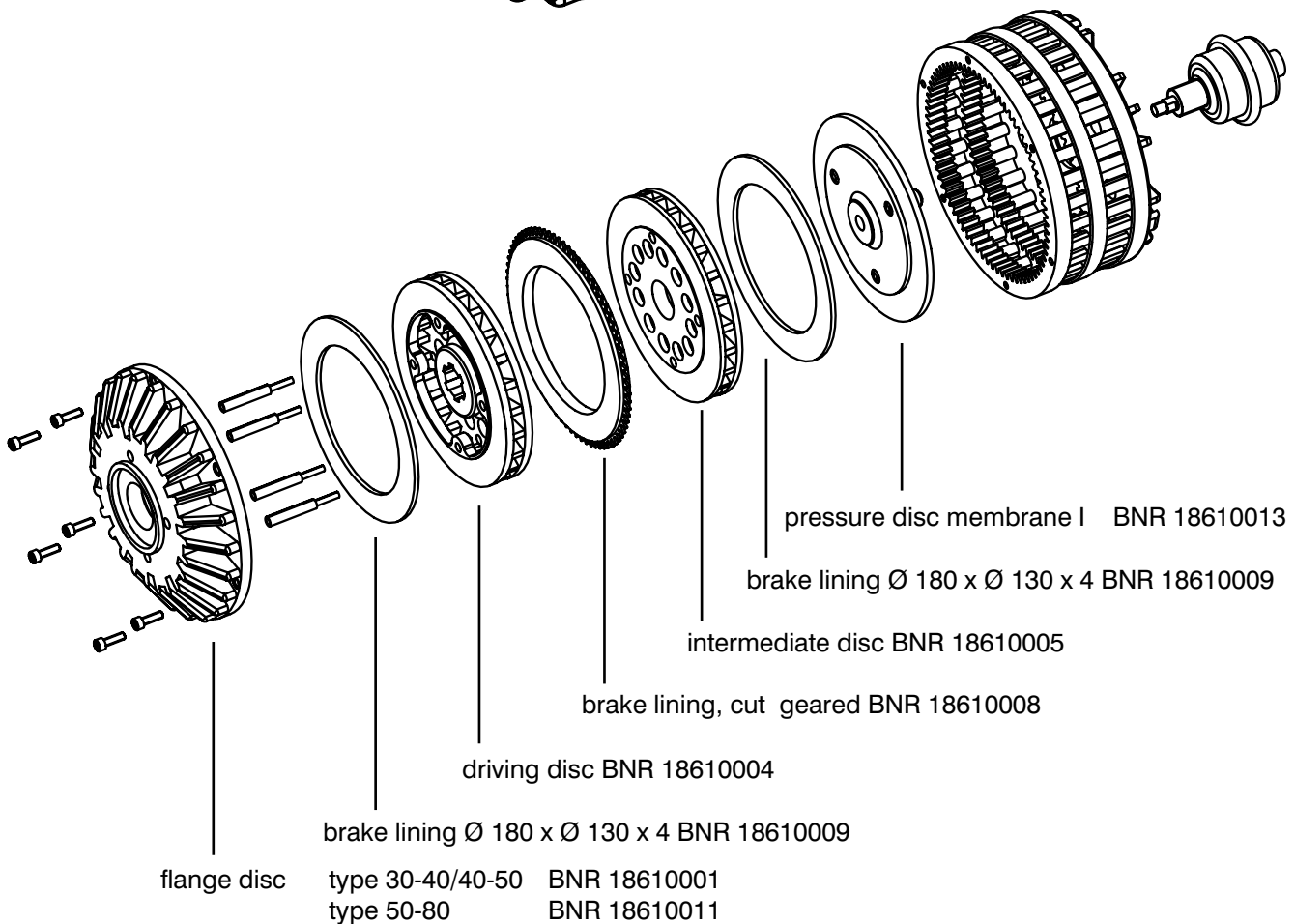
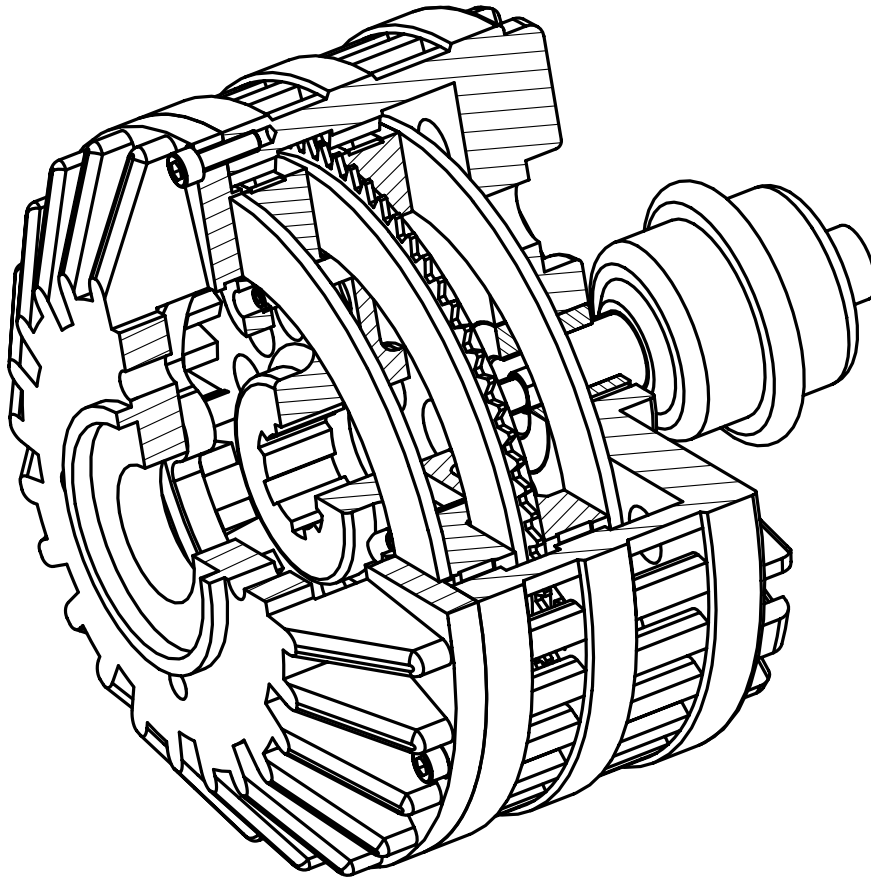
Mattenstrasse 1  
D-79541 Loerrach-Hauingen

infokl@boschert.de  
www.boschert.de

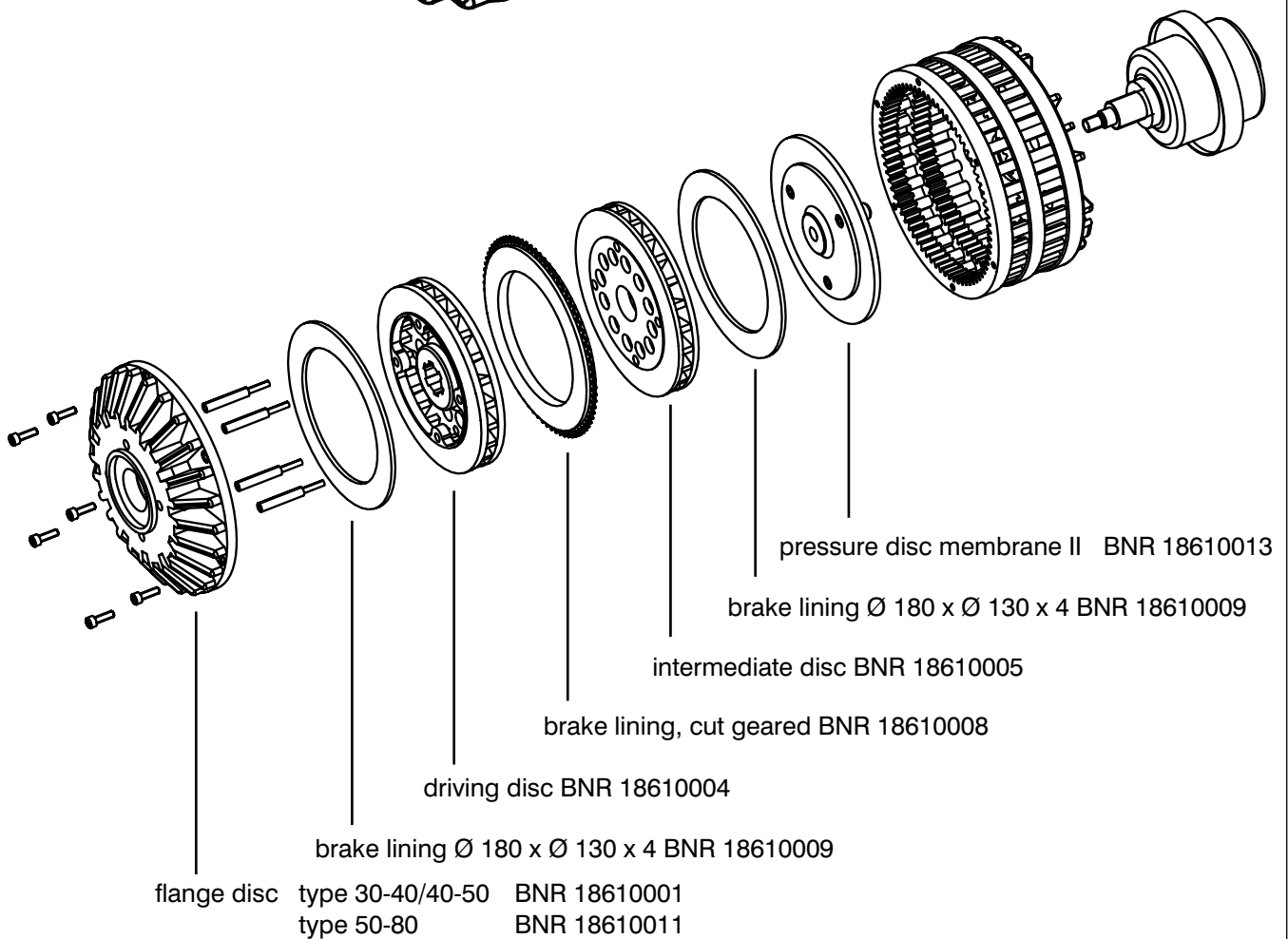
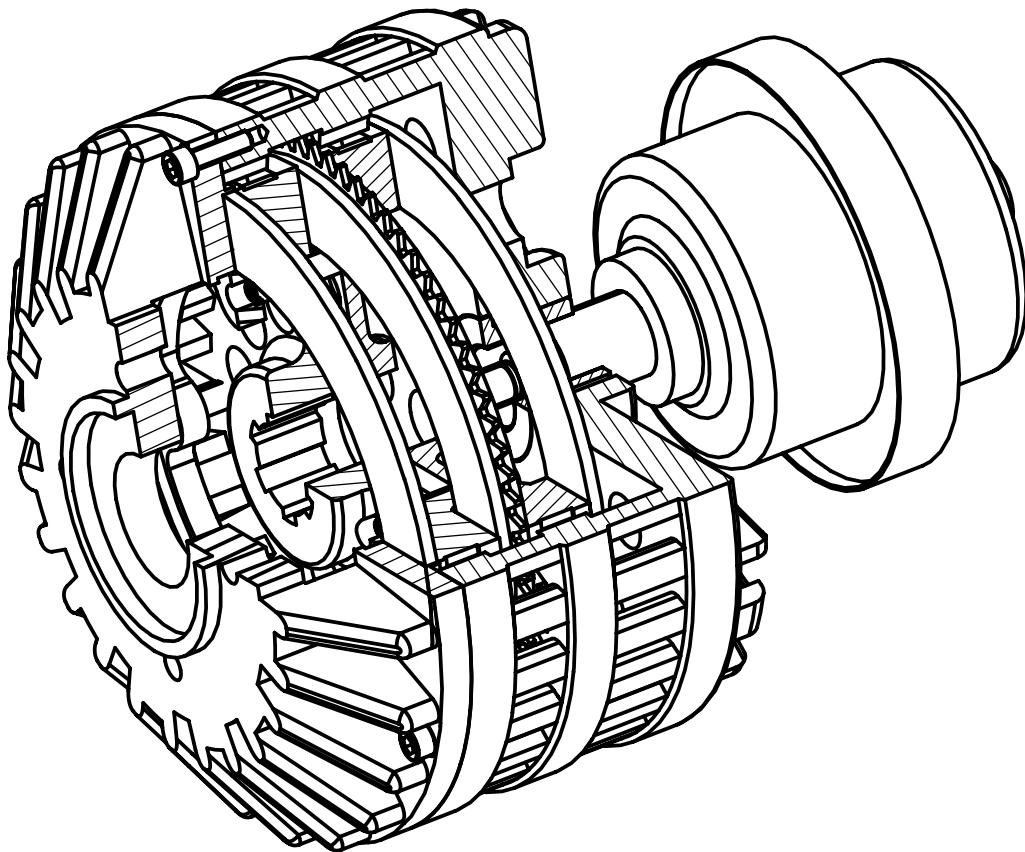
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Fax: +49 (0) 7621 / 5518 4

**6.46**

# DSB membrane cylinder I wearing-parts

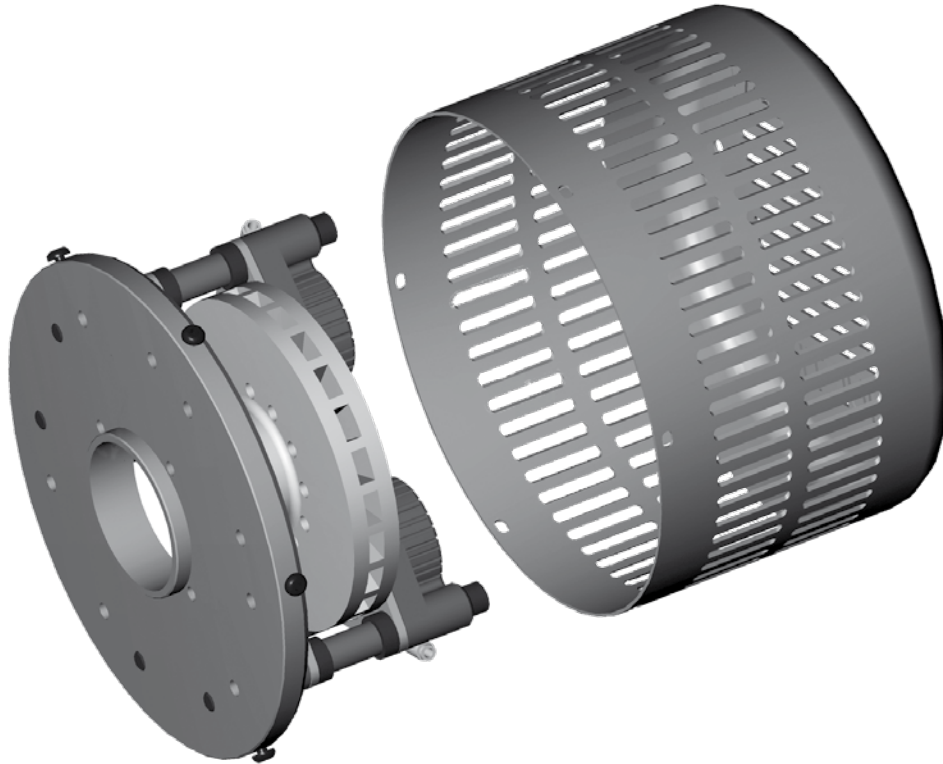


# DSB membrane cylinder II wearing-parts





**6.70 MULTI**  
**type 500 / 1500 / 3000**

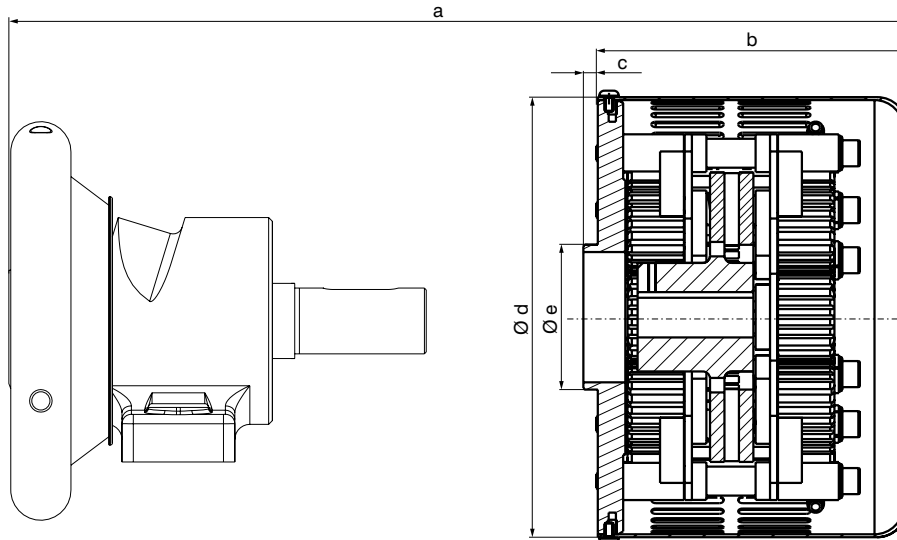


Multi pneum. disc-brake  
in variable modular-design construction

	MULTI		
	500	1500	3000
<b>type 22-30 - 50-80</b>			
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
<b>Safety Chuck 22-30 + Multi</b>	323	200	2	304	62
<b>Safety Chuck 30-40 + Multi</b>	340	200	5	304	80
<b>Safety Chuck 40-50 + Multi</b>	391	200	7.5	304	100
<b>Safety Chuck 50-80 + Multi</b>	460	200	7.5	304	140

### Multi 1500

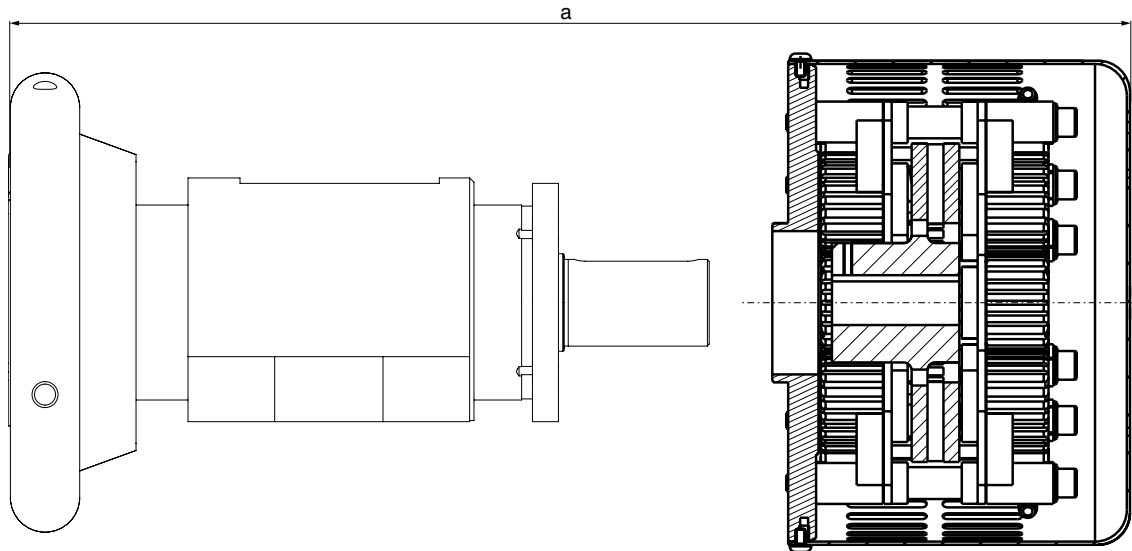
	a	b	c	d	e -0.1 / -0.2
<b>Safety Chuck 22-30 + Multi</b>	323	200	2	404	62
<b>Safety Chuck 30-40 + Multi</b>	340	200	5	404	80
<b>Safety Chuck 40-50 + Multi</b>	391	200	7.5	404	100
<b>Safety Chuck 50-80 + Multi</b>	460	200	7.5	404	140

### Multi 3000

	a	b	c	d	e -0.1 / -0.2
<b>Safety Chuck 22-30 + Multi</b>	373	250	2	504	62
<b>Safety Chuck 30-40 + Multi</b>	390	250	5	504	80
<b>Safety Chuck 40-50 + Multi</b>	440	250	7.5	504	100
<b>Safety Chuck 50-80 + Multi</b>	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 and brake just symbolic

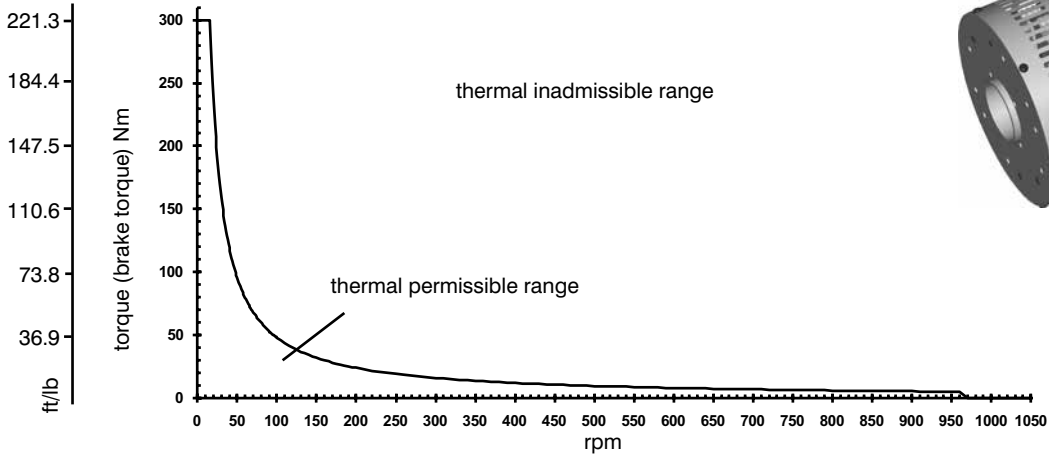
overall dimension „a“  
for Boschert Sliding-Chuck (flange- and foot mounted chuck)

	Multi			chuck dim. on pag
	500	1500	3000	
<b>brake dim. on page</b>	6.71	6.71	6.71	
<b>Sliding-Chuck</b>				
<b>22-30</b>				
50 mm adjustment	451	451	501	3.03 - 3.06
100 mm adjustment	551	551	601	3.03 - 3.06
<b>30-40</b>				
50 mm adjustment	454	454	504	3.03 - 3.06
100 mm adjustment	554	554	604	3.03 - 3.06
<b>40-50</b>				
50 mm adjustment	460	460	510	3.03 - 3.06
100 mm adjustment	560	560	610	3.03 - 3.06
<b>A Chuck</b>				
A40	340	340	390	4.21 - 4.22
A50	391	391	441	4.31 - 4.32
A80	469	469	519	4.41 - 4.42
<b>P Chuck</b>				
P40	408	408	458	4.61 - 4.62
P50	445	445	495	4.71 - 4.72

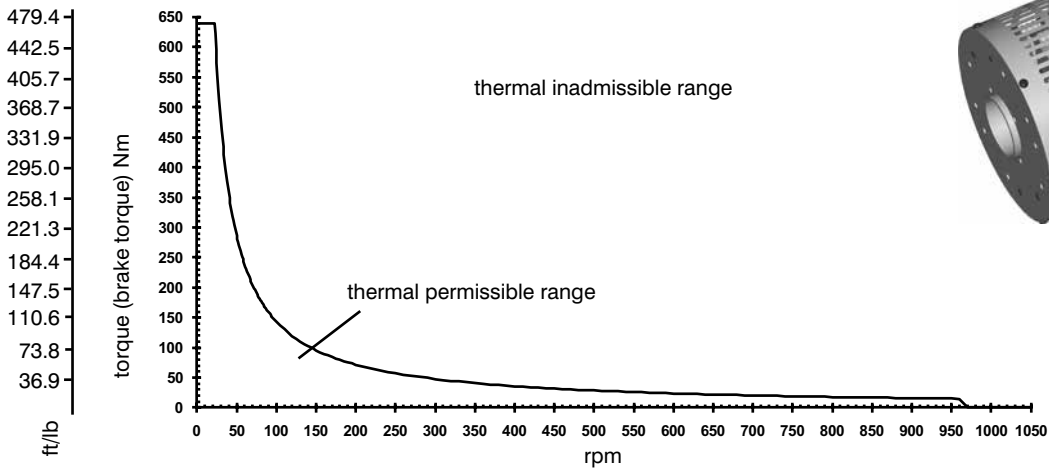
# Multi performance diagrams type 500 / 1500 / 3000



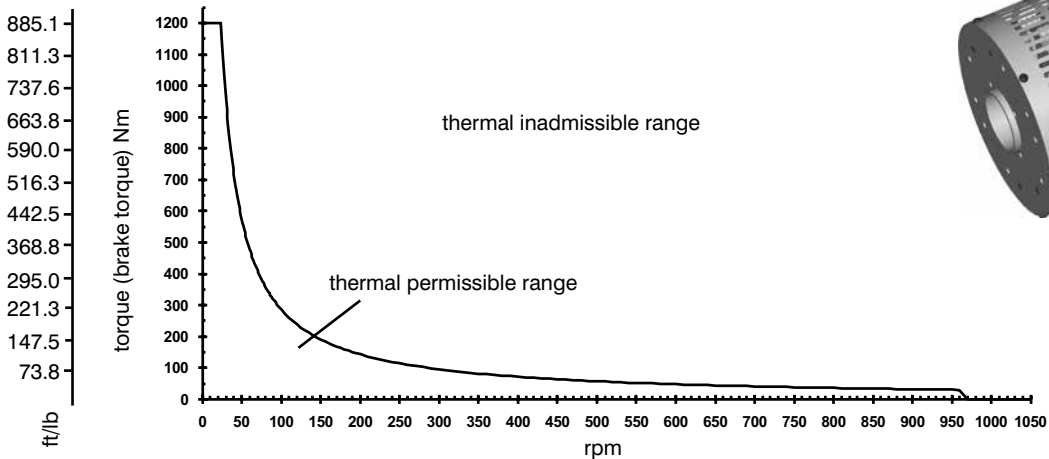
## Multi 500



## Multi 1500



## Multi 3000



1 Nm = 0.7376 ft/lb

**6.73**

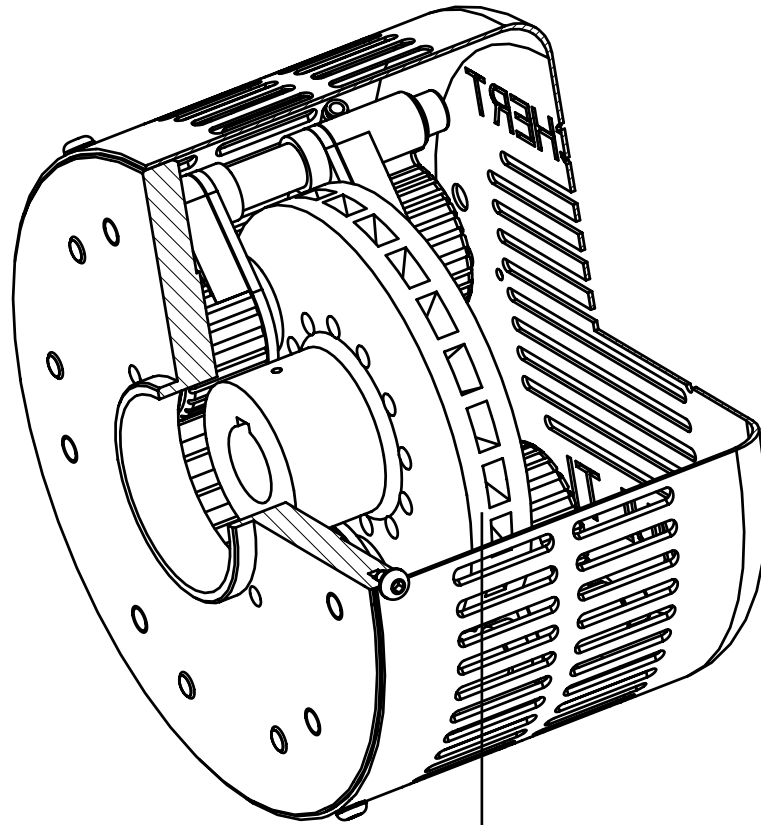
Mattenstrasse 1  
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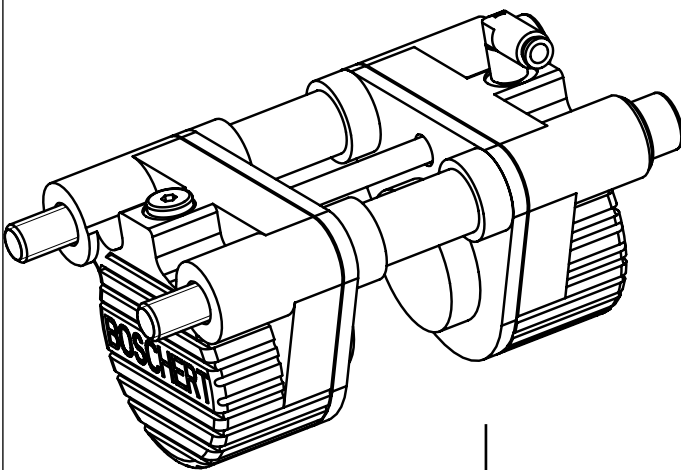
Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

Changes reserved (a)

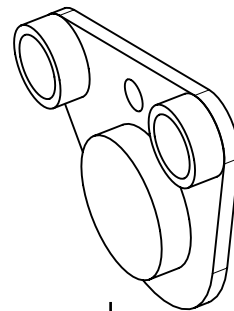
# MULTI wearing-parts



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	
<b>Type Mini</b>				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	
<b>Type 22-30 to 40-50</b>				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)	

**7.20 Clutch**  
**type 22-30 to 40-50**



Clutch manual



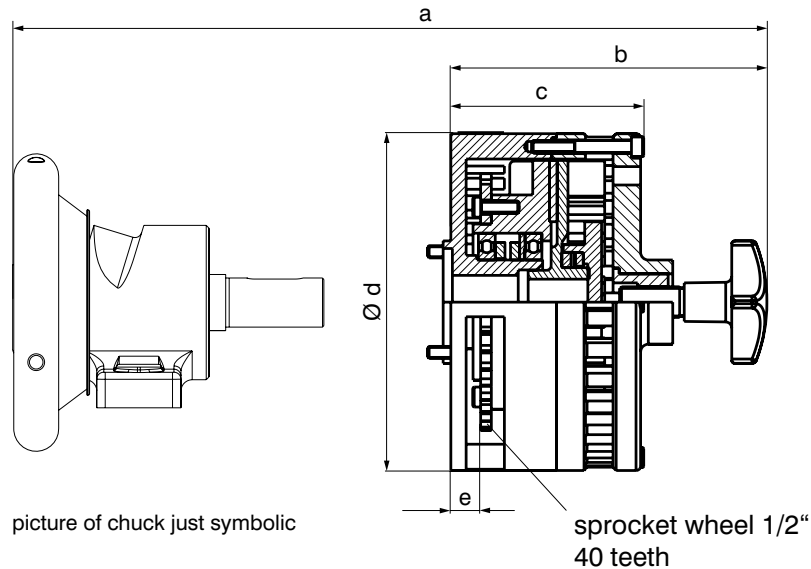
Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	pneumatic	membrane I
<b>type 22-30 to 40-50</b>			
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)

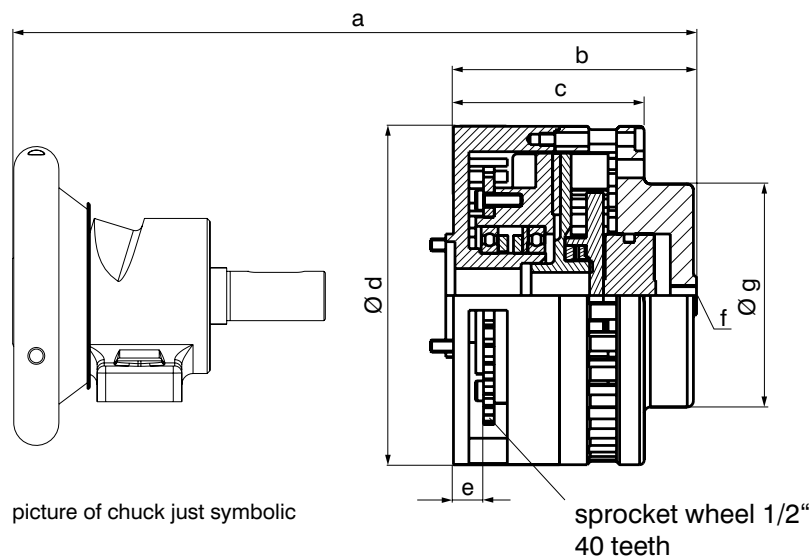
## Safety Chuck with clutch manual



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

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43

## Safety Chuck with clutch pneumatic



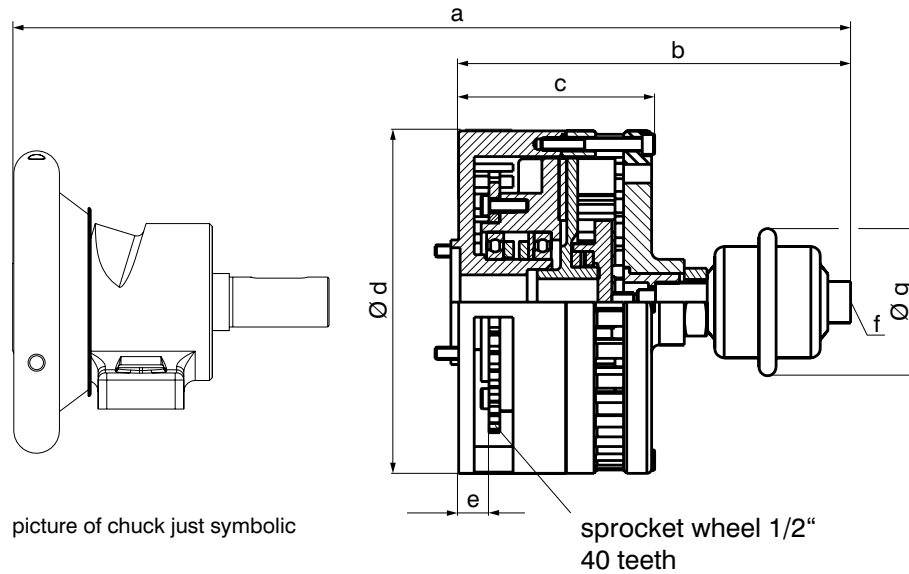
	a	b	c	d	e	f	g
<b>Safety Chuck 22-30 + clutch pneumatic</b>	281	160	124	220	19	G 1/4	145
<b>Safety Chuck 30-40 + clutch pneumatic</b>	298	160	124	220	19	G 1/4	145
<b>Safety Chuck 40-50 + clutch pneumatic</b>	349	160	124	220	19	G 1/4	145

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43



# Clutch with membrane cylinder I

## Safety Chuck with clutch and membrane cylinder I

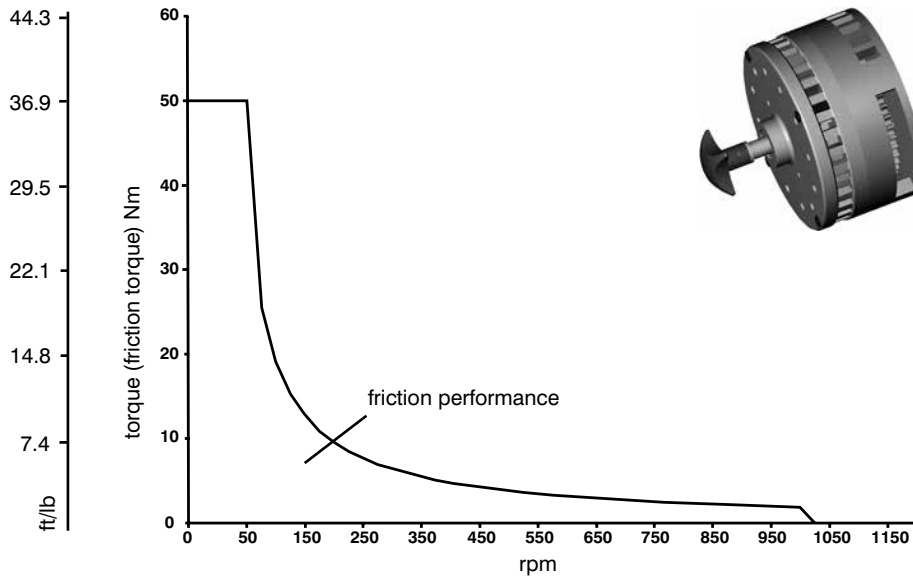


	a	b	c	d	e	f	g
<b>Safety Chuck 22-30 + clutch membrane cylinder I</b>	343	220	124	220	19	G 1/4	80
<b>Safety Chuck 30-40 + clutch membrane cylinder I</b>	360	220	124	220	19	G 1/4	80
<b>Safety Chuck 40-50 + clutch membrane cylinder I</b>	411	220	124	220	19	G 1/4	80

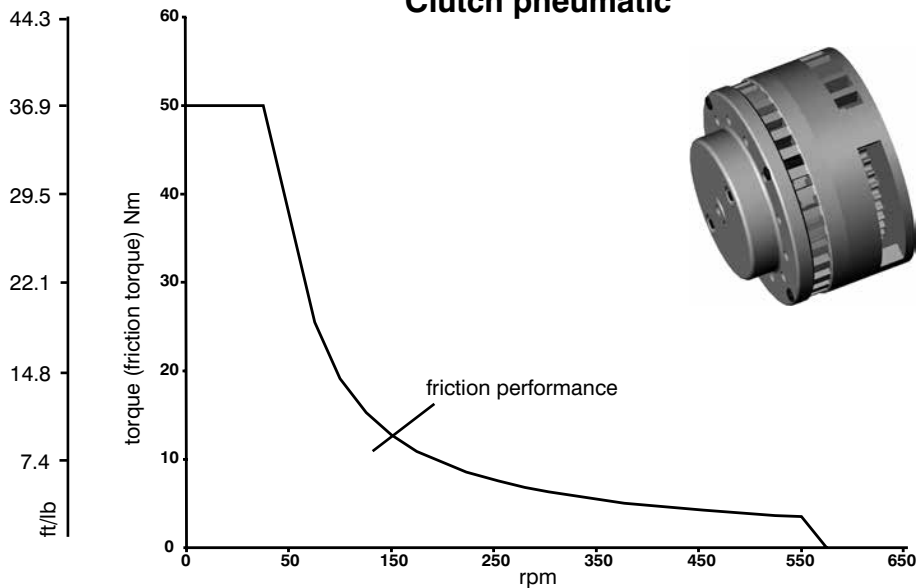
Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43

# Clutch performance diagrams

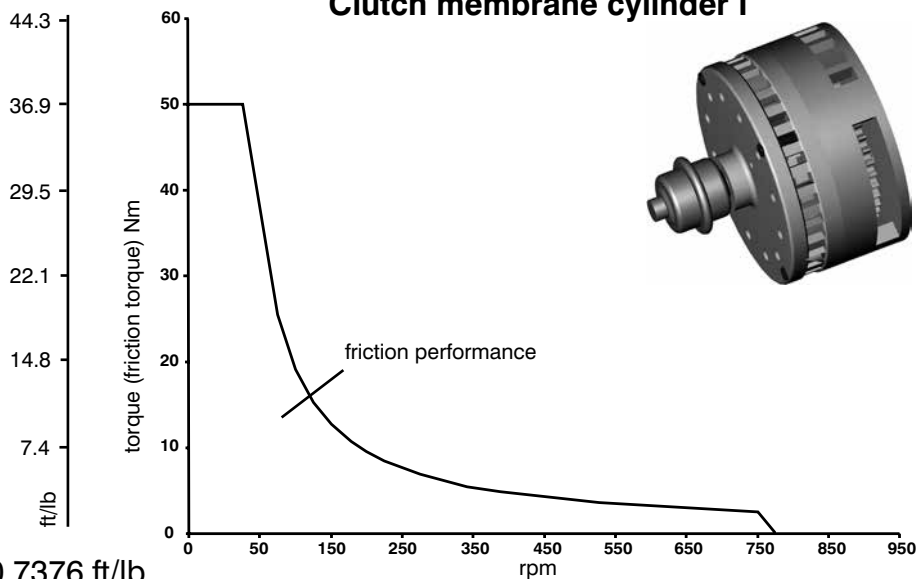
### Clutch manual



### Clutch pneumatic

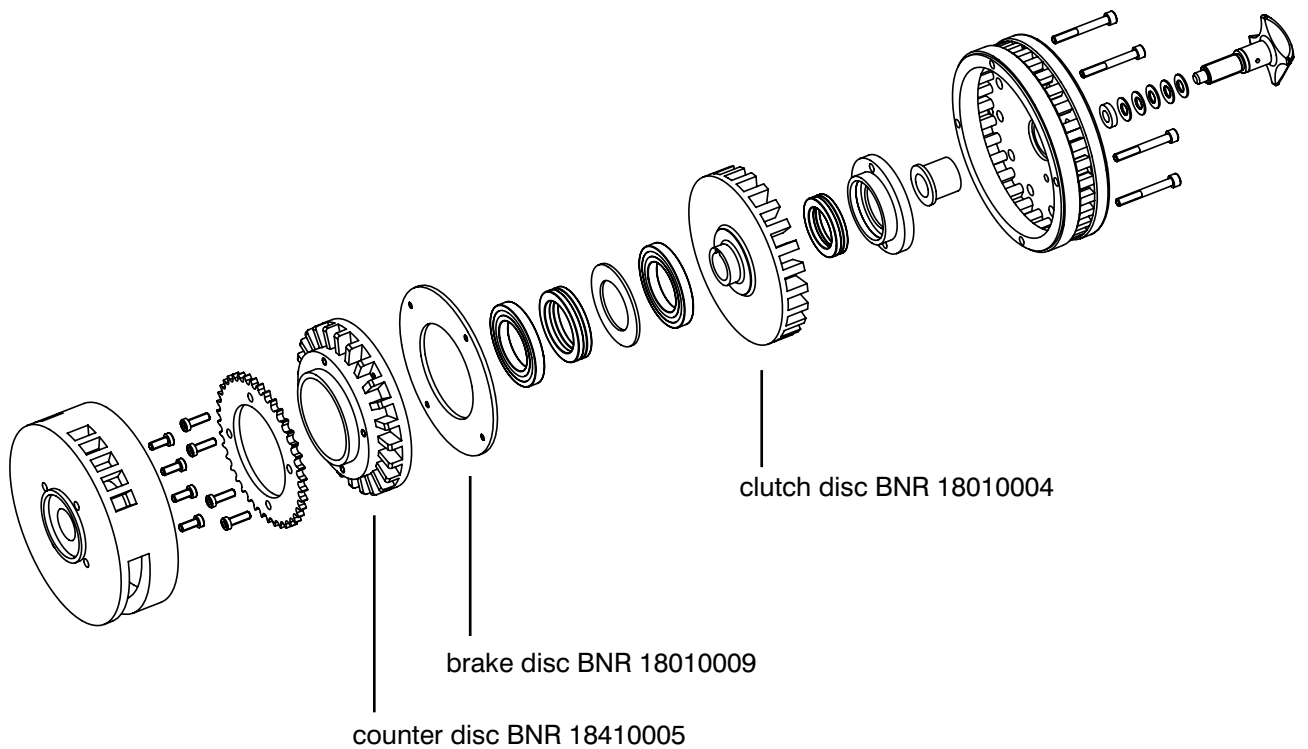
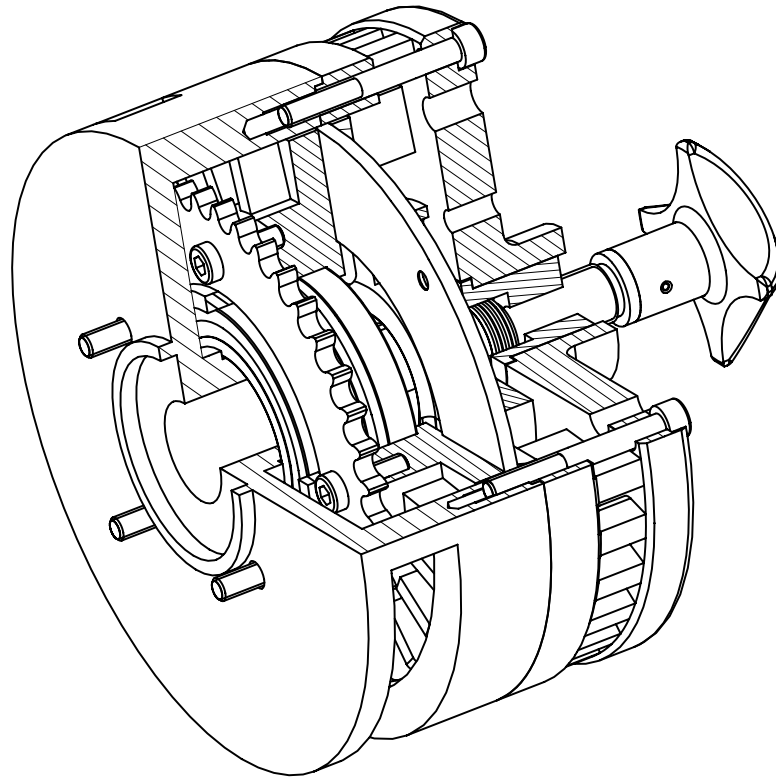


### Clutch membrane cylinder I

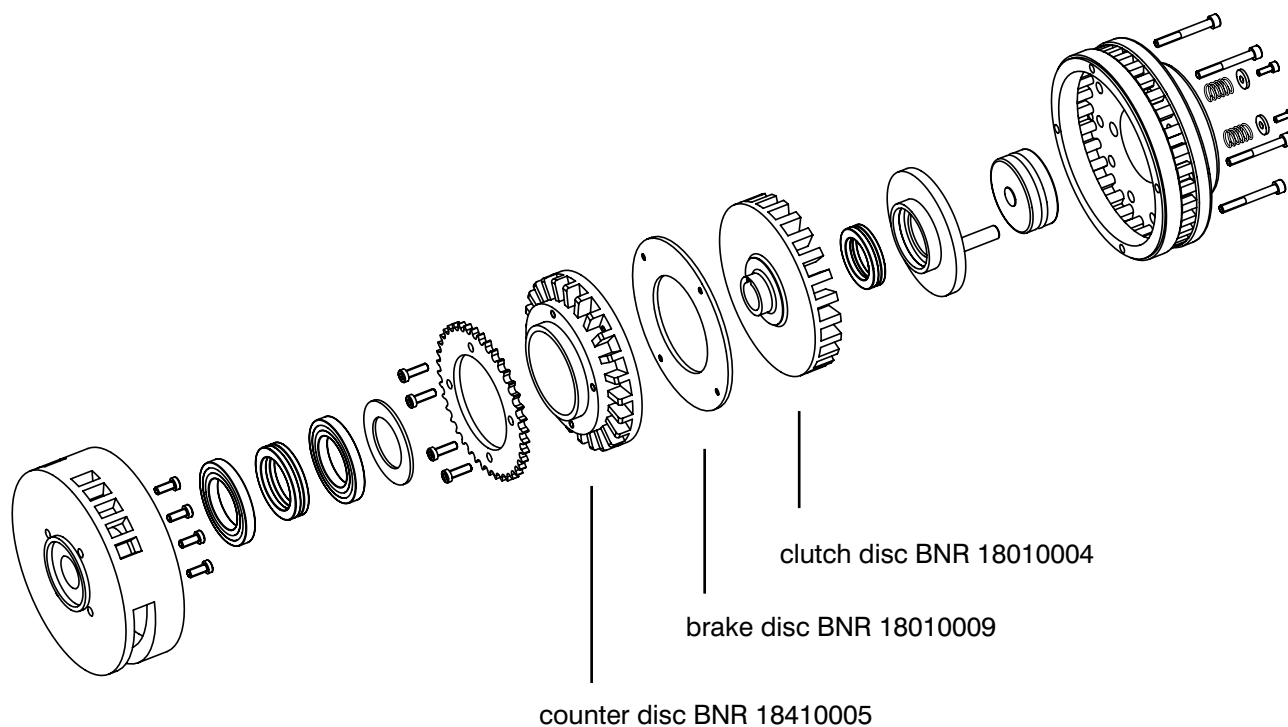
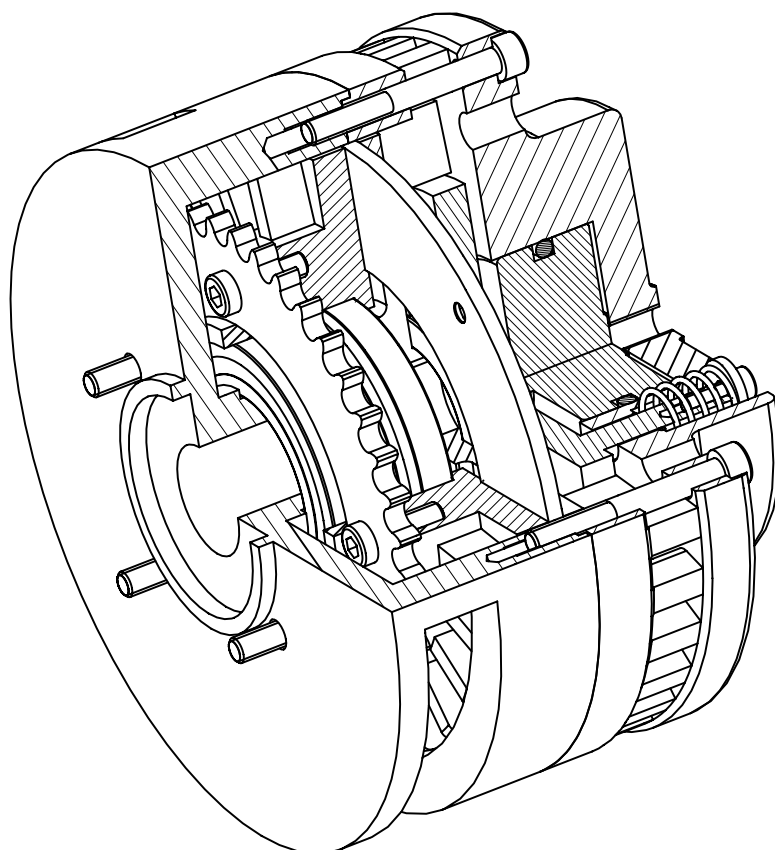


1 Nm = 0.7376 ft/lb

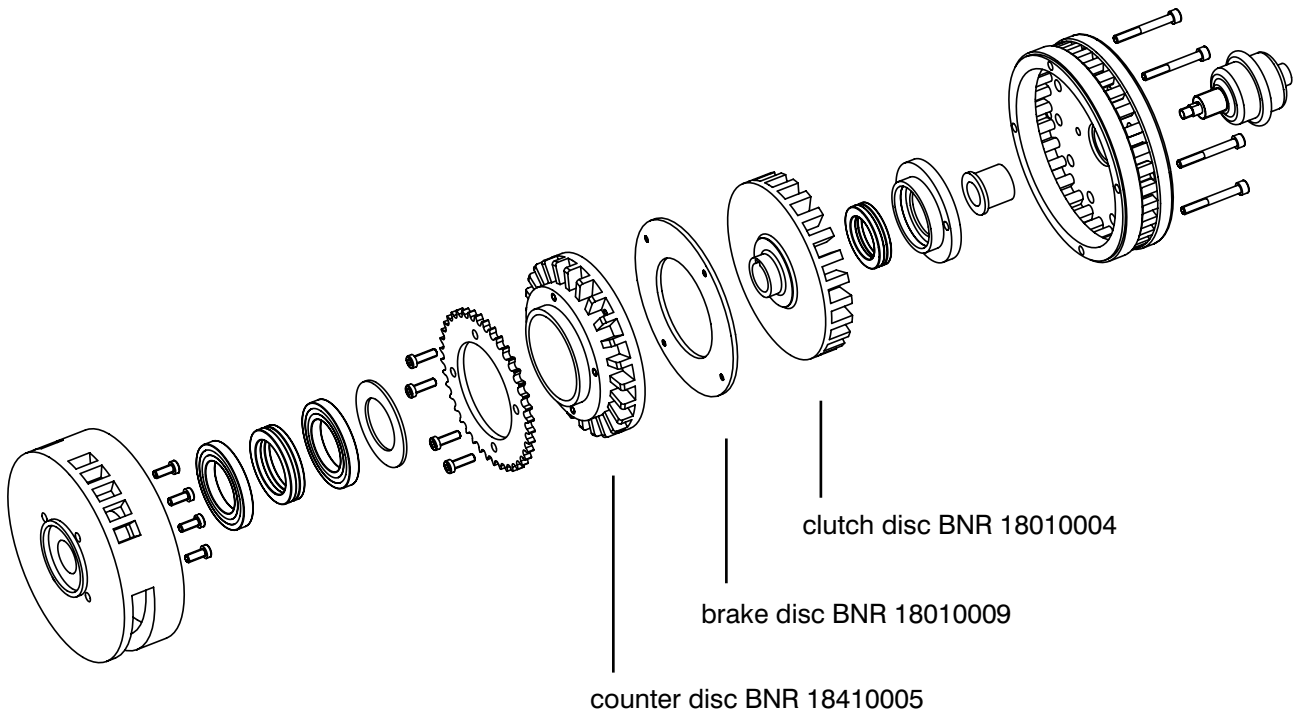
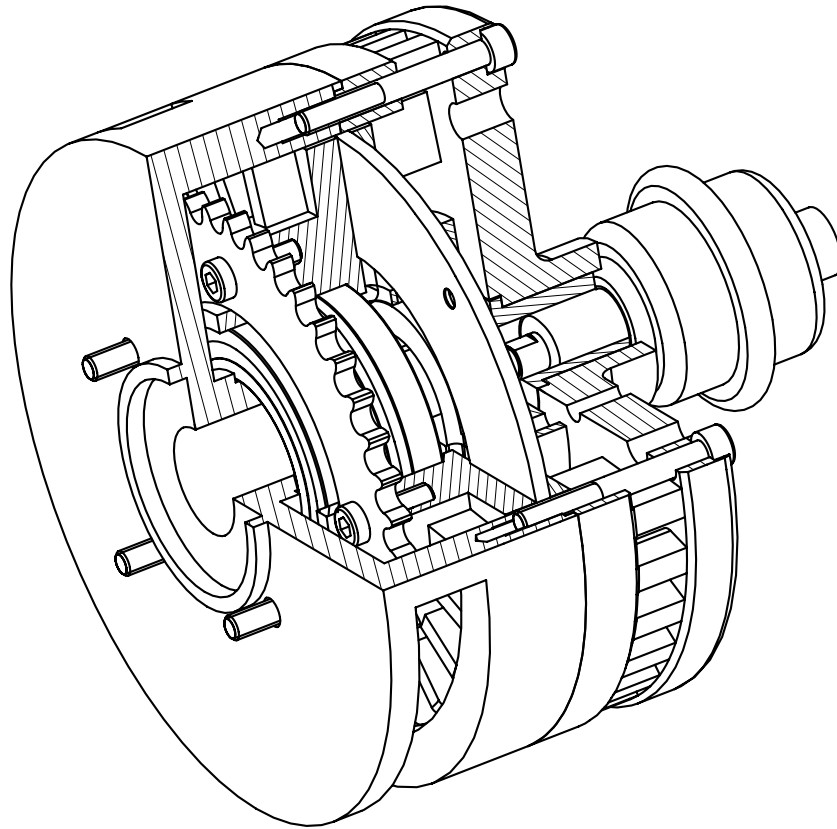
# Clutch manual wearing-parts



# Clutch pneumatic wearing-parts



# Clutch membrane cylinder I wearing-parts



**7.00 Clutch  
type mini**



Clutch manual



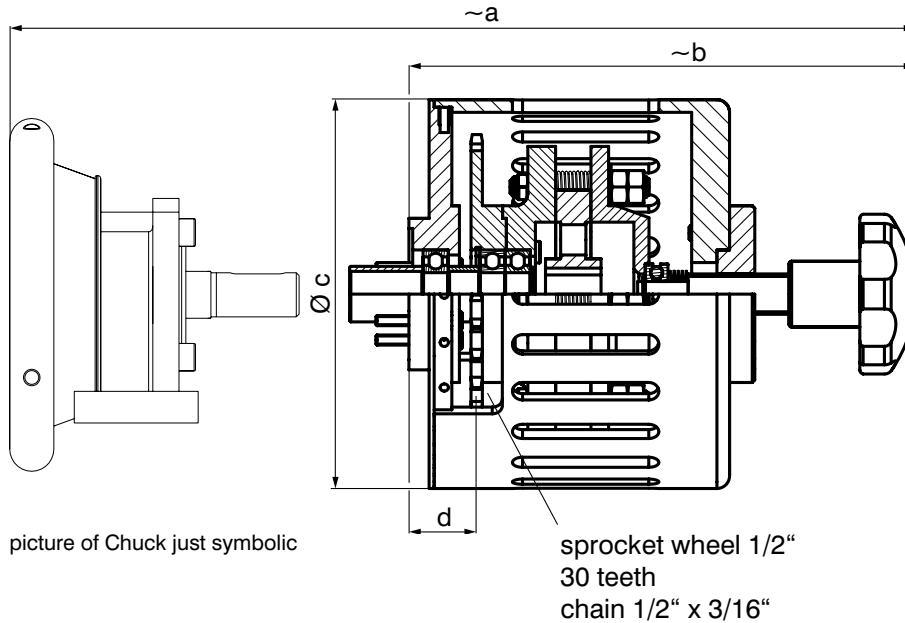
Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	pneumatic	membrane I
<b>type mini</b>			
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)

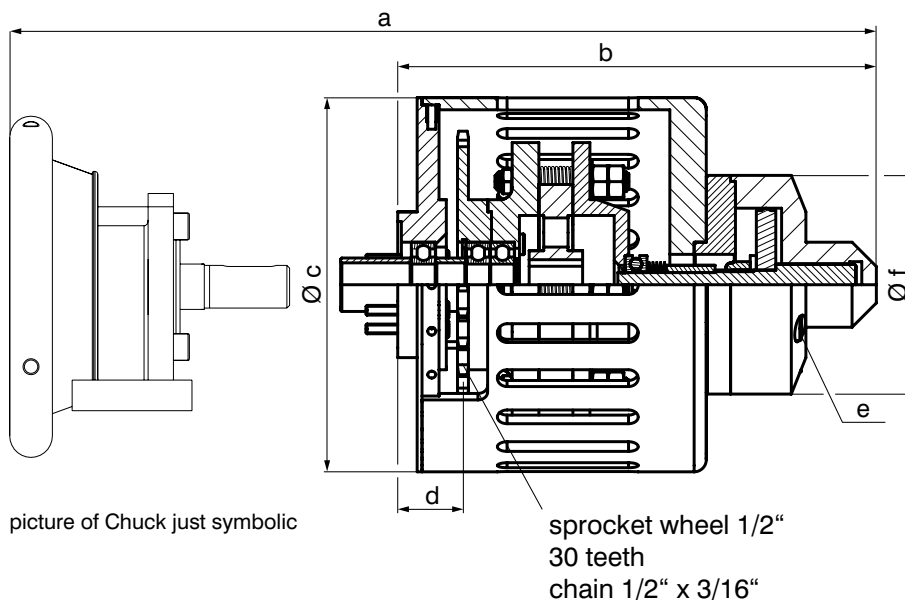
## Safety Chuck with clutch manual



	a	b	c	d
<b>Safety Chuck Mini + Clutch manual</b>	264	200	162	32.5

Dimension schedule for Boschert-Chuck see chapter 2.00

## Safety Chuck with clutch pneumatic

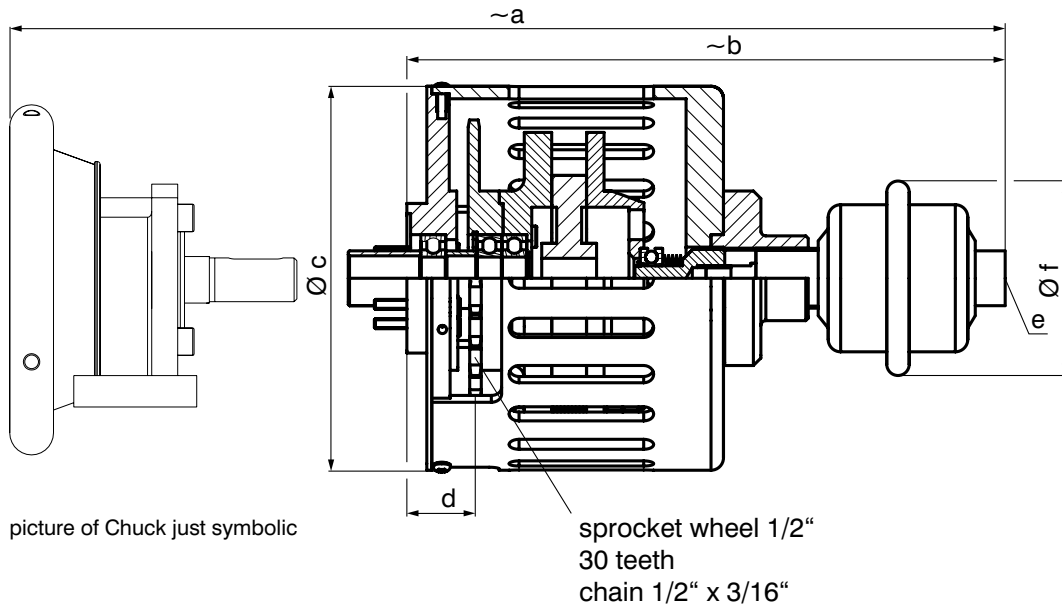


	a	b	c	d	e	f
<b>Safety Chuck Mini + Clutch pneumatic</b>	261	197	162	32,5	G 1/8	80

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
<b>Safety Chuck Mini + clutch pneumatic</b>	305	240	162	32.5	G 1/4	80

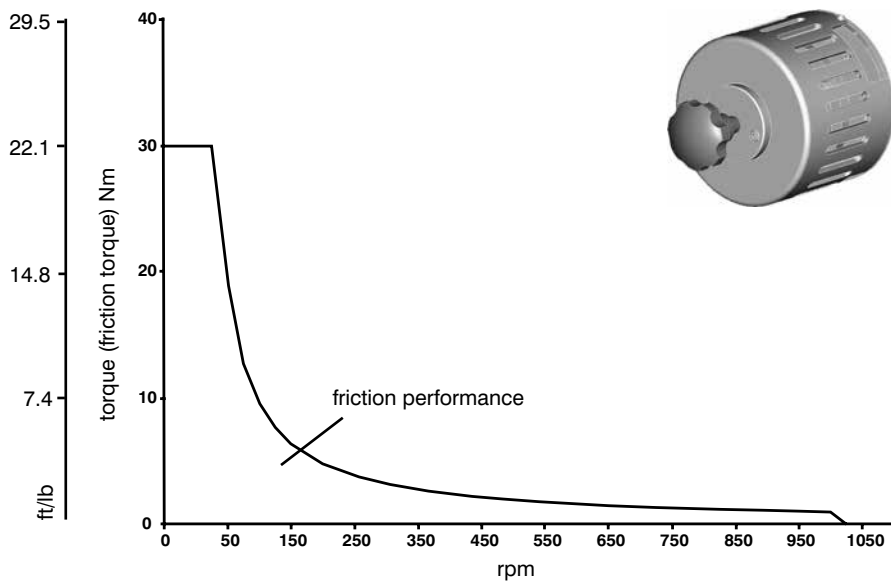
Dimension schedule for Boschert-Chuck see chapter 2.00



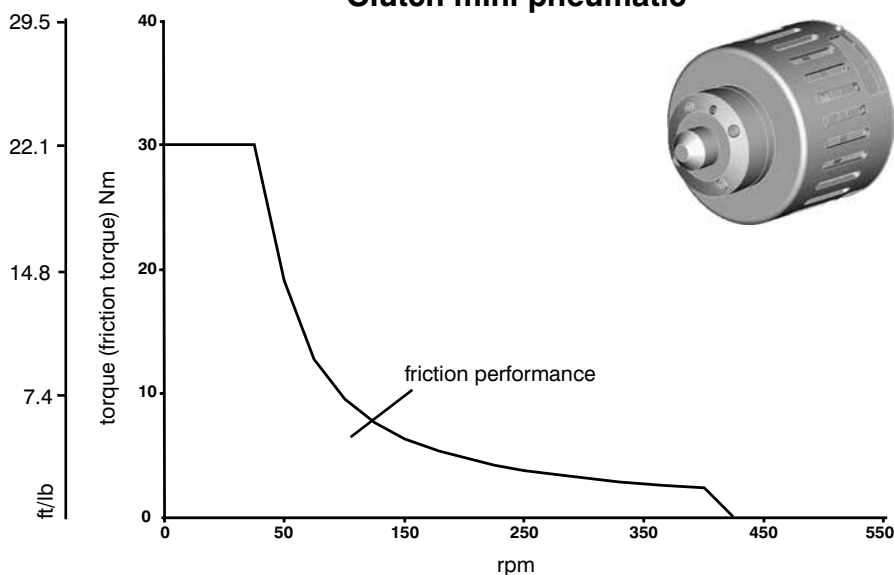
# Performance diagrams Clutch mini



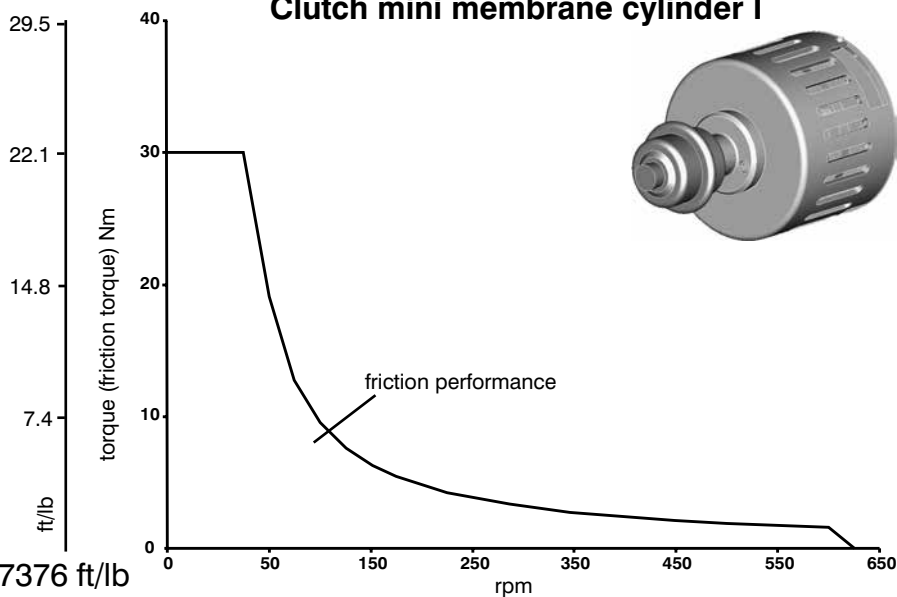
### Clutch mini manual



### Clutch mini pneumatic



### Clutch mini membrane cylinder I



1 Nm = 0.7376 ft/lb

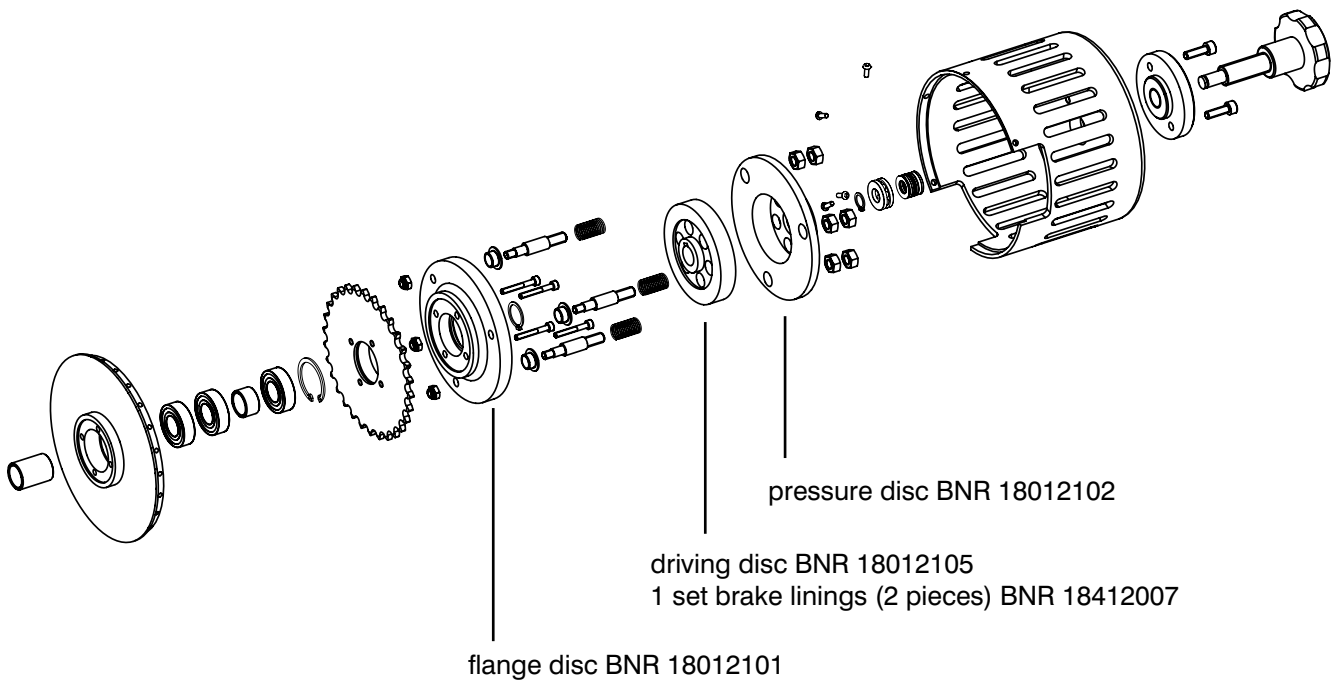
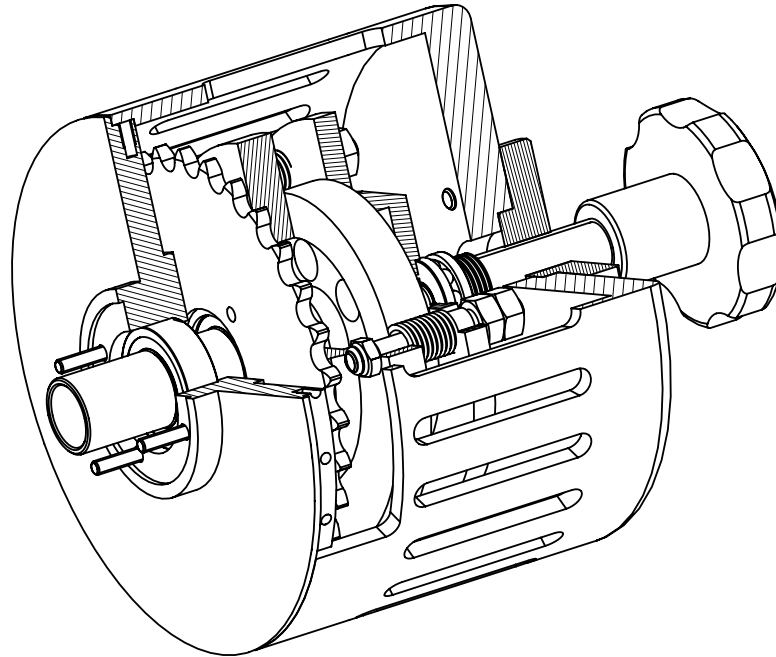
**7.03**

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D-79541 Loerrach-Hauingen

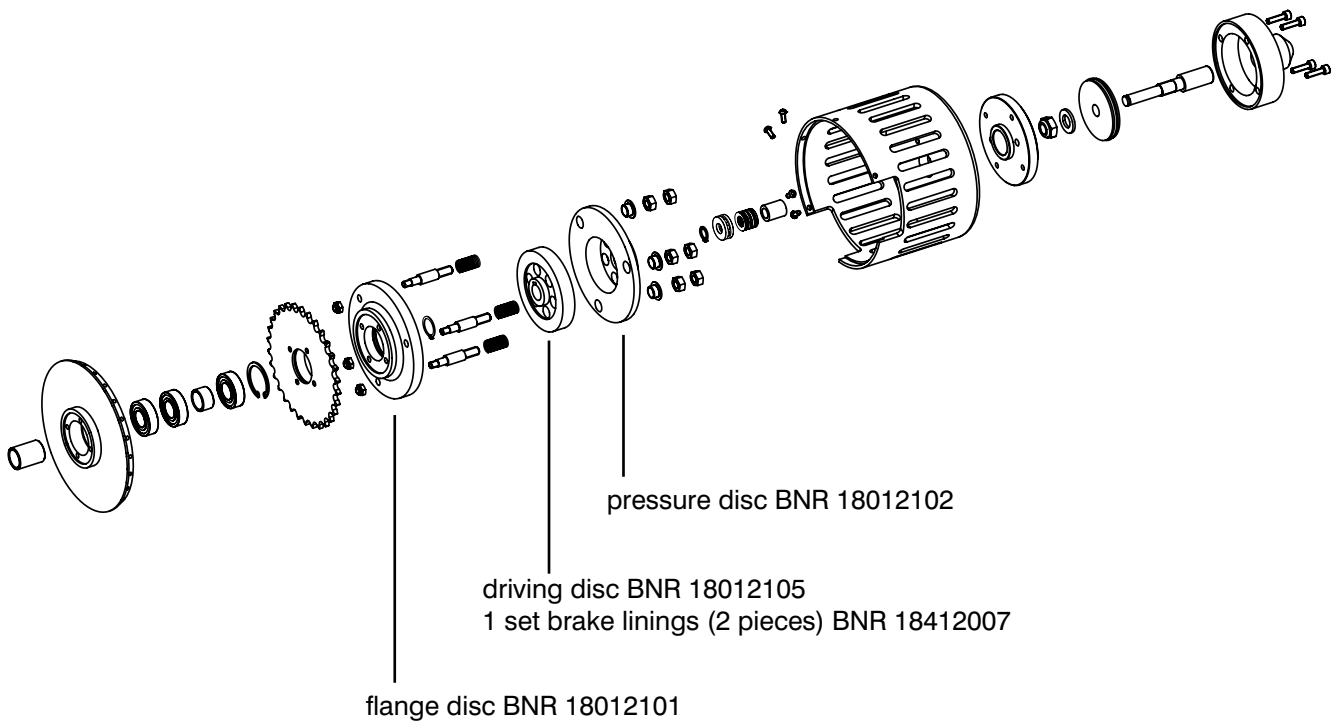
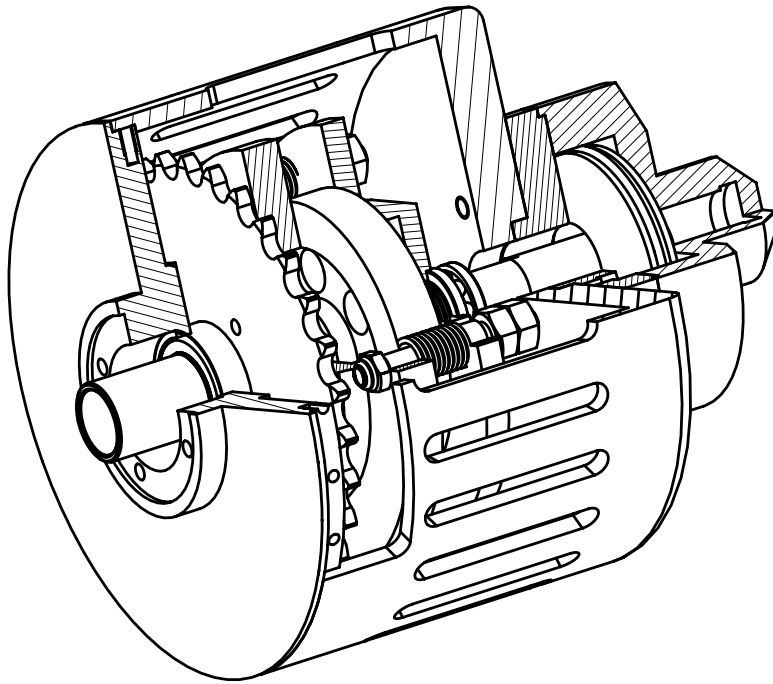
infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

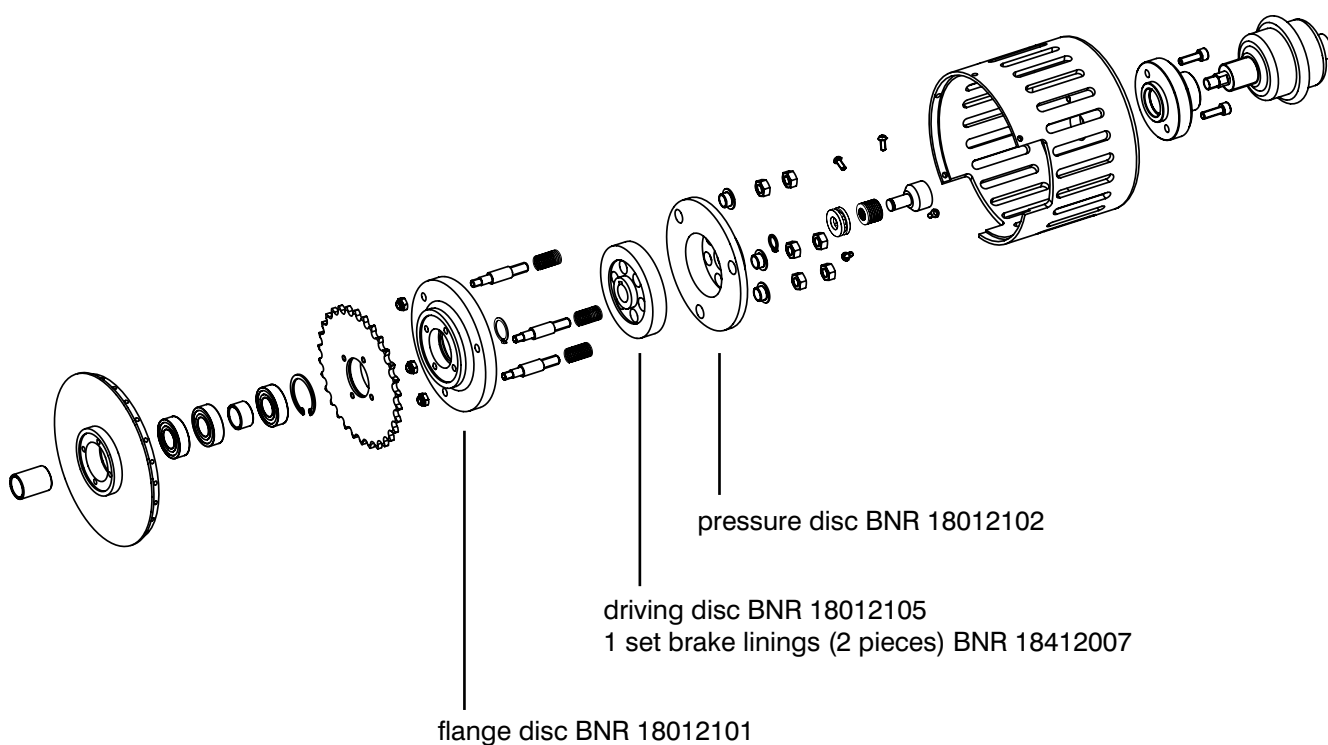
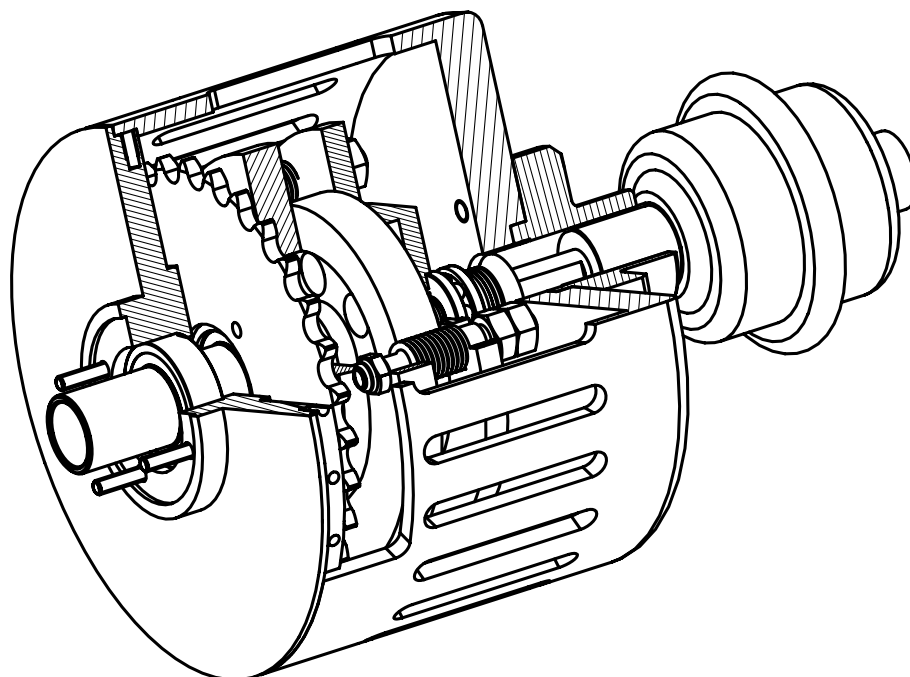
# Clutch mini manual wearing-parts



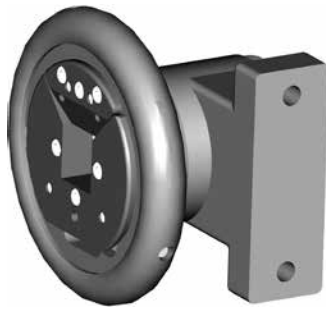
# Clutch mini pneumatic wearing-parts



# Clutch mini membrane 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 type I

Info: 8.30

Info: 8.31



Handwheel lock type 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

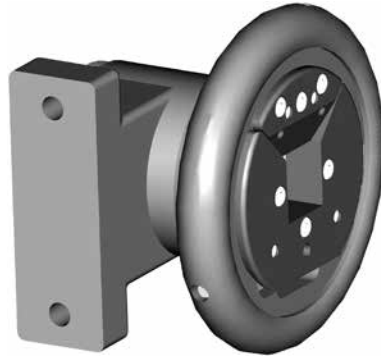


Chuck with handwheel open/close recognition

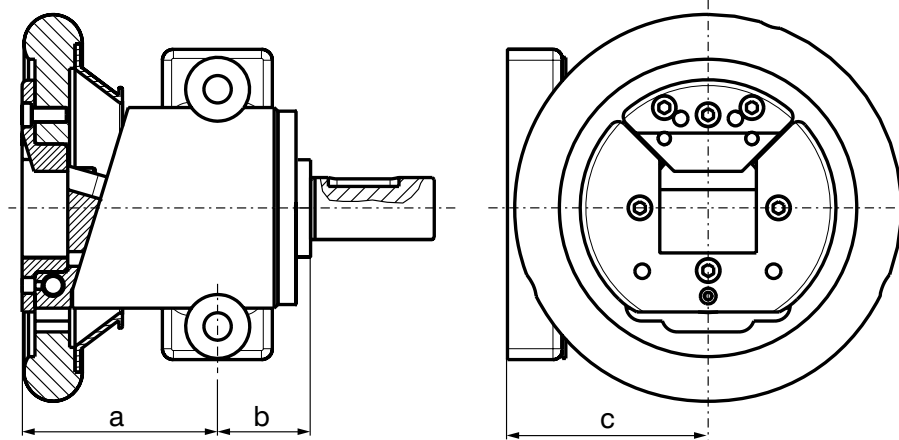
Info: 8.61

## 8.01 Foot mounted chucks for 90° mounting

### Foot mounted chucks to fix at a vertical frame



#### Type 22-30 / 30-40

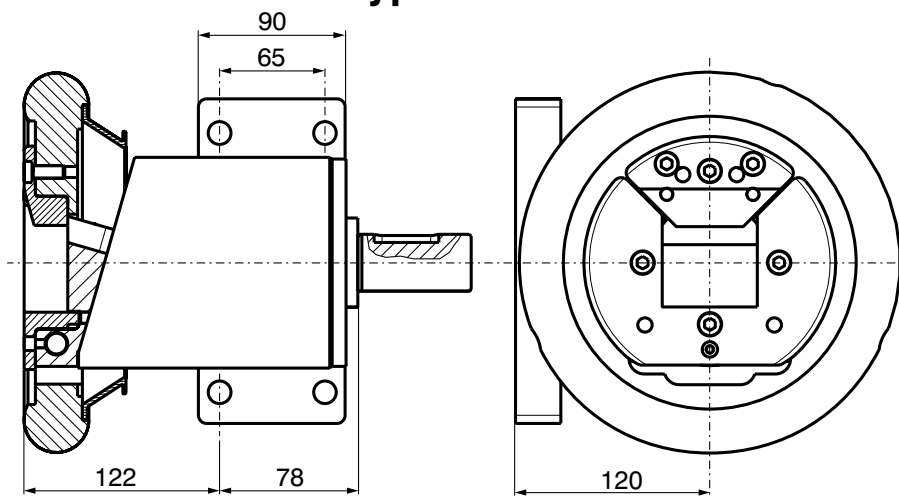


above showed chuck = 90° turned right

	a	b	c
ST 22-30	92	40	85
ST 30-40	107	45	110

Chuck dimensions are different from standard chucks 2.20-2.23 / 2.30-2.33

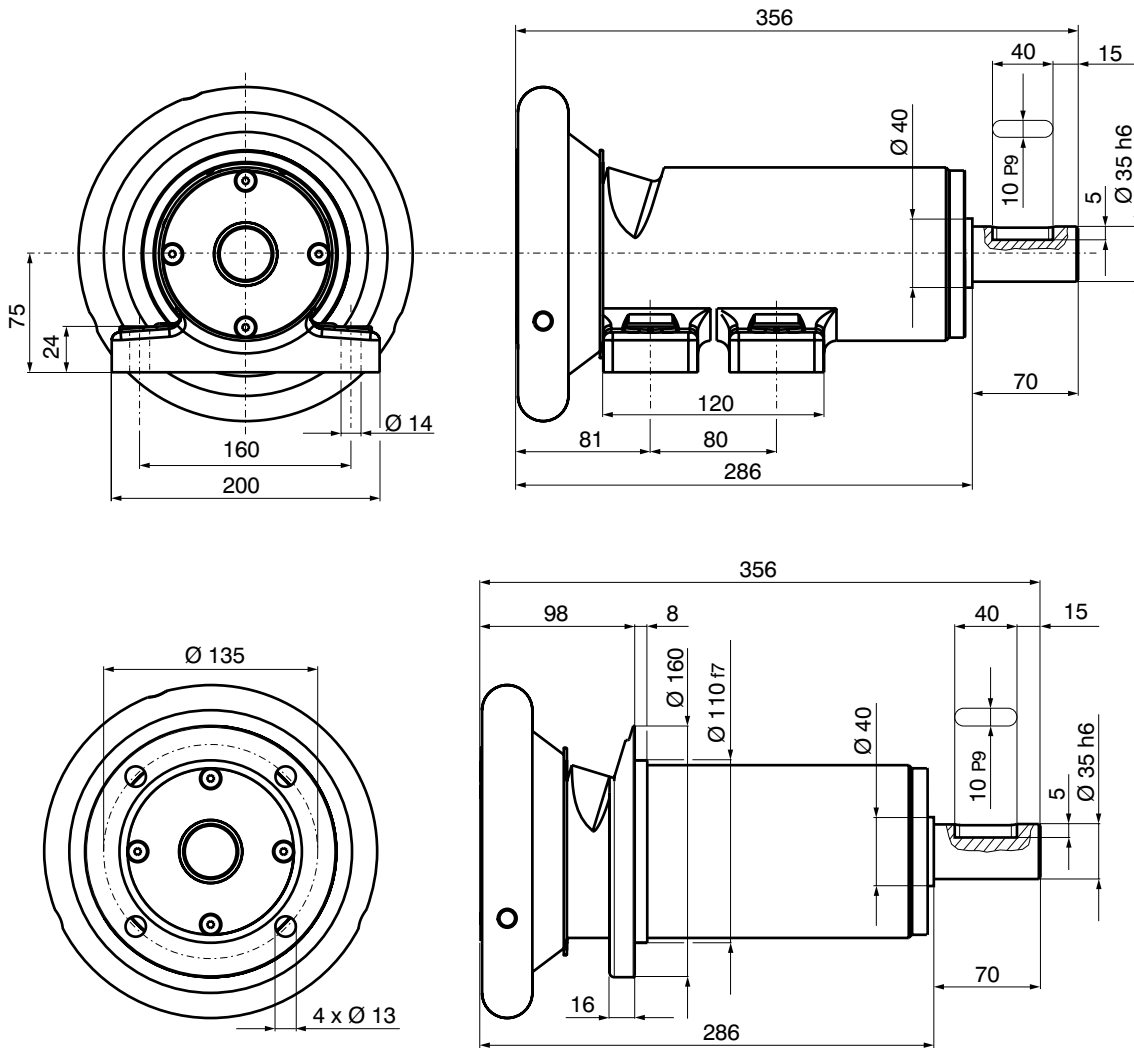
#### Type 40- 50



above showed chuck = 90° turned right

Chuck dimensions are different from standard chucks 2.40-2.43

# Extended Chucks type 30-40 flange and foot mounted



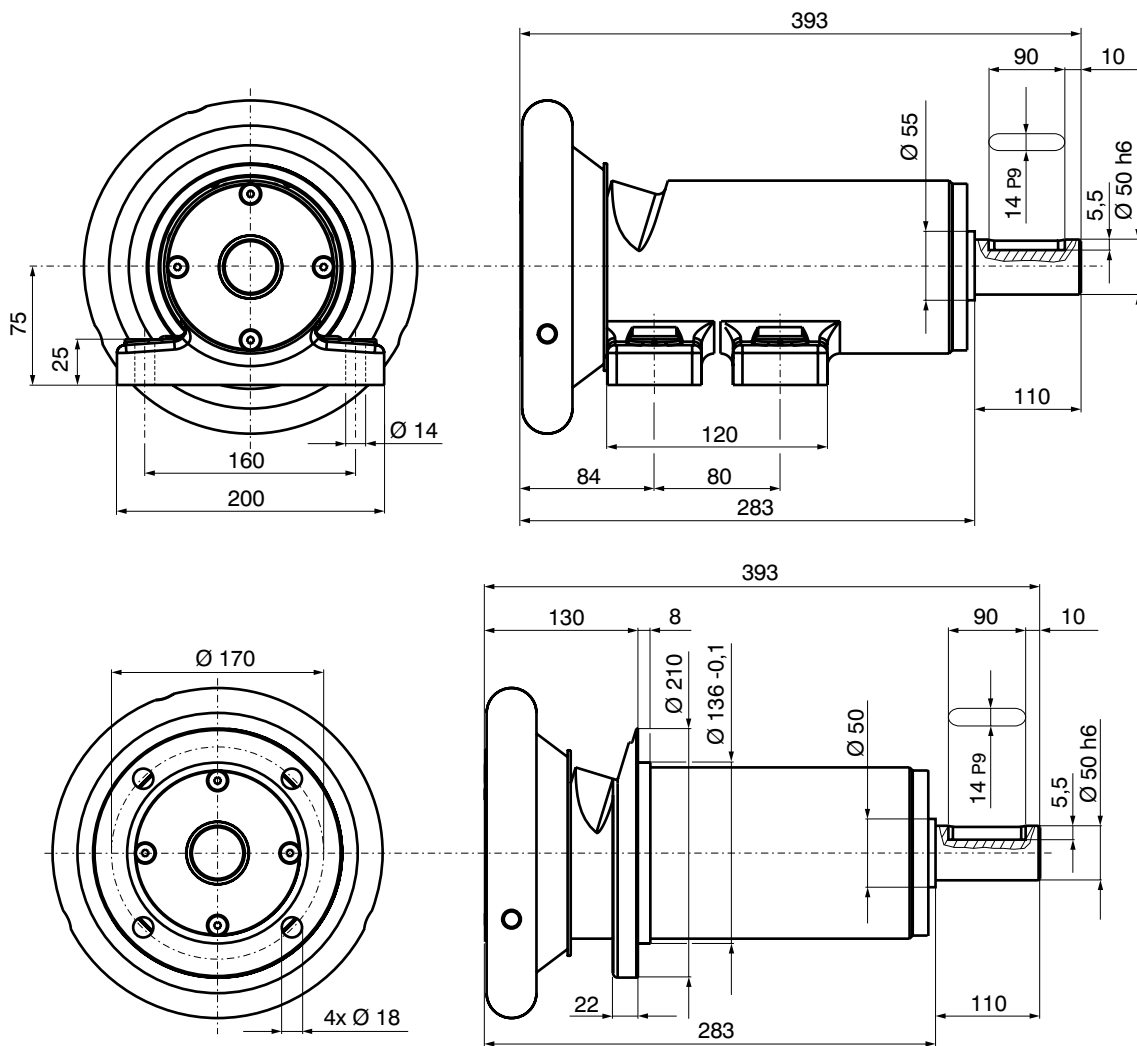
Special shaft ends on customer request

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")
- Beam weight max.:**  (4410 lbs)
- max. Torque:** ↻ 350 Nm (258.1 ft/lb)
- max. rpm:** 1350 min<sup>-1</sup>

		Info
Type:	VT	2.55
Journal shaft type VT:	VT1 / VT2 / VT6 / VT7	2.33
Handwheel lock:	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)

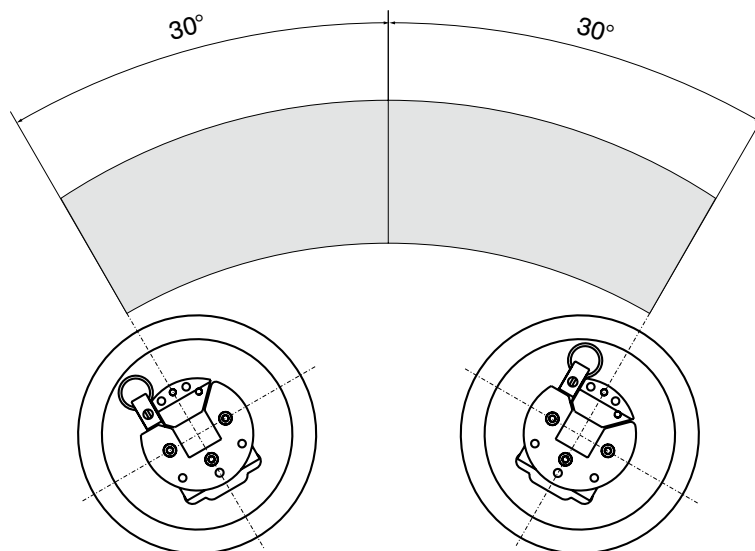
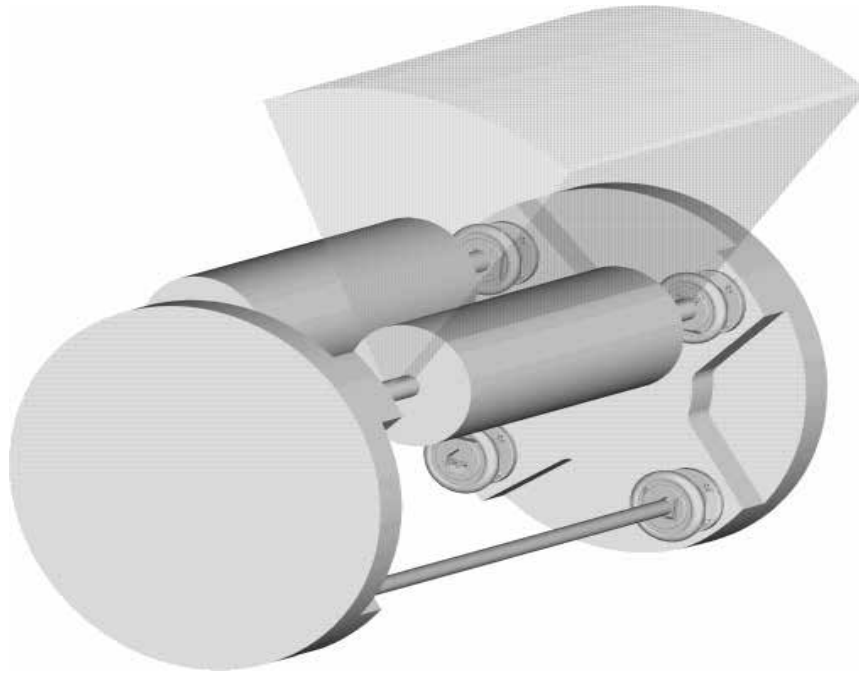
- Square bar:** □ 40 mm - 50 mm (1.5748" - 1.9685")
- Standard Square bar:** □ 50 mm (1.9685")
- Beam weight max.:** □ 3000 kg □ (6610 lbs)
- max. Torque:** ↻ 1100 Nm (800 ft/lb)
- max. rpm:** 1350 min<sup>-1</sup>

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



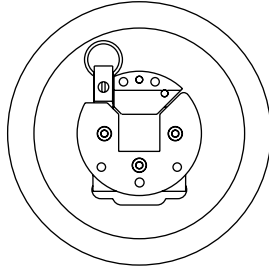
## Extended opening angle +/- 30°

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.

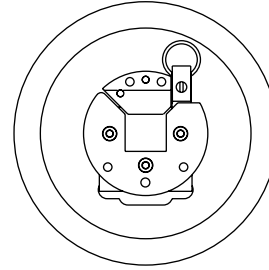


Optional opening angle to both sides up to max. 30°.

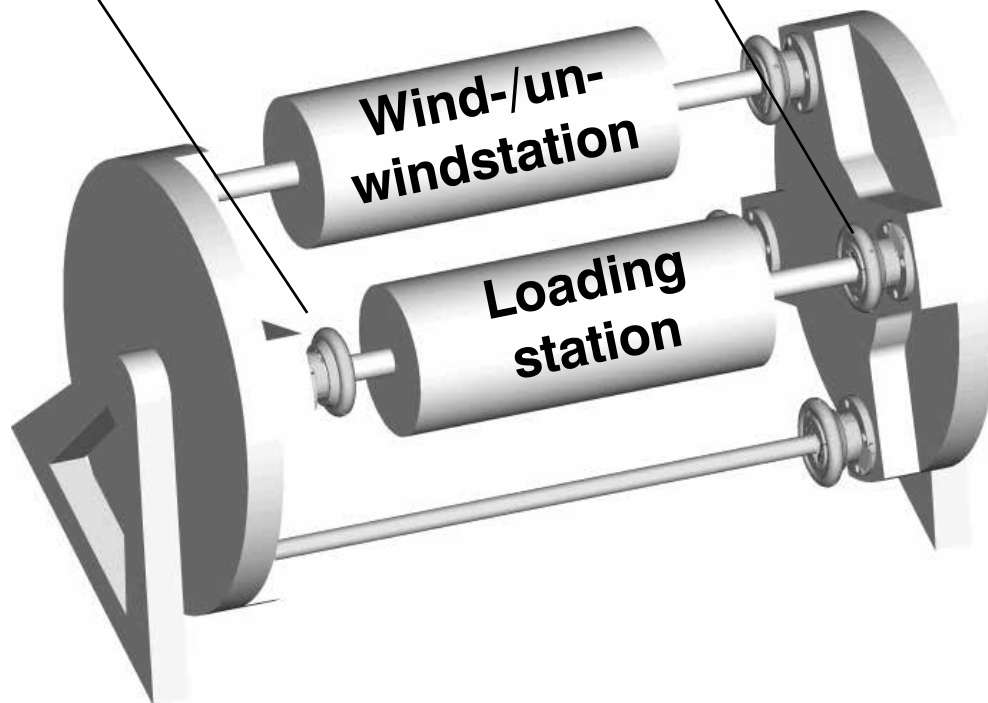
# Handwheel Lock



Handwheel lock type left



Handwheel lock type right

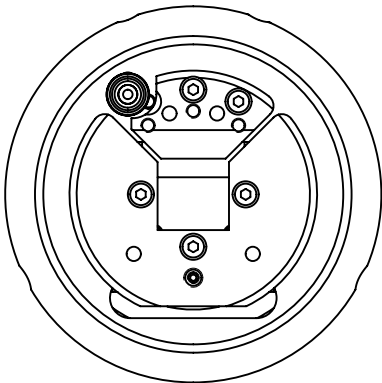


**Due to safety reasons we recommend handwheel locks on applications in turret winders.**

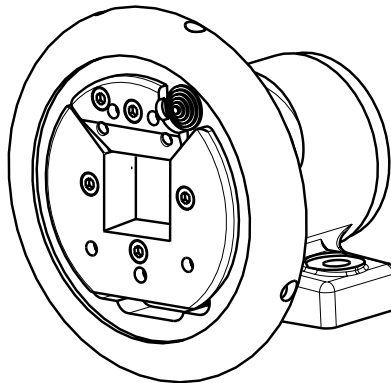
Normally the face cam on the housing prevents an opening of the handwheel. On a turret winder, the safety chucks are in normal position, when they are in the loading position. For wind or unwind the chucks are turned 180° and now work upside down. In that position, the security of the face cam apex is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

# Handwheel lock

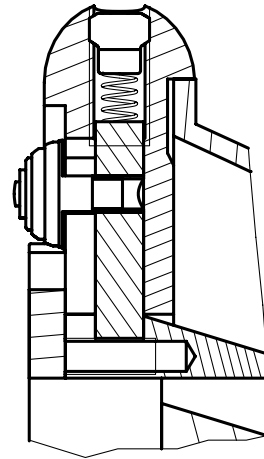
## Handwheel lock type I only type 22-30



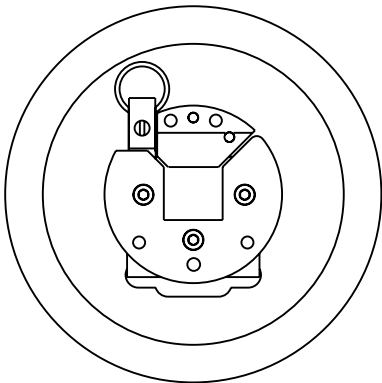
HRV I left



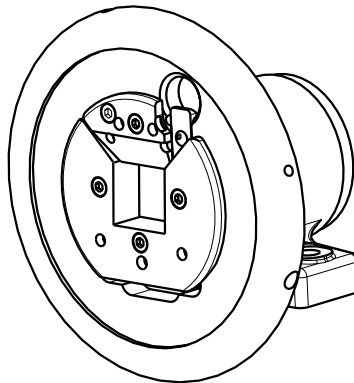
HRV I right



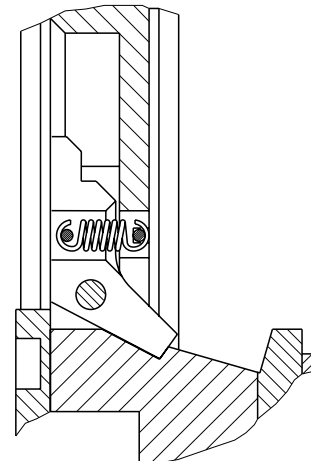
## Handwheel lock type II type 30-40 / 40-50 / 50-80



HRV II left



HRV II right



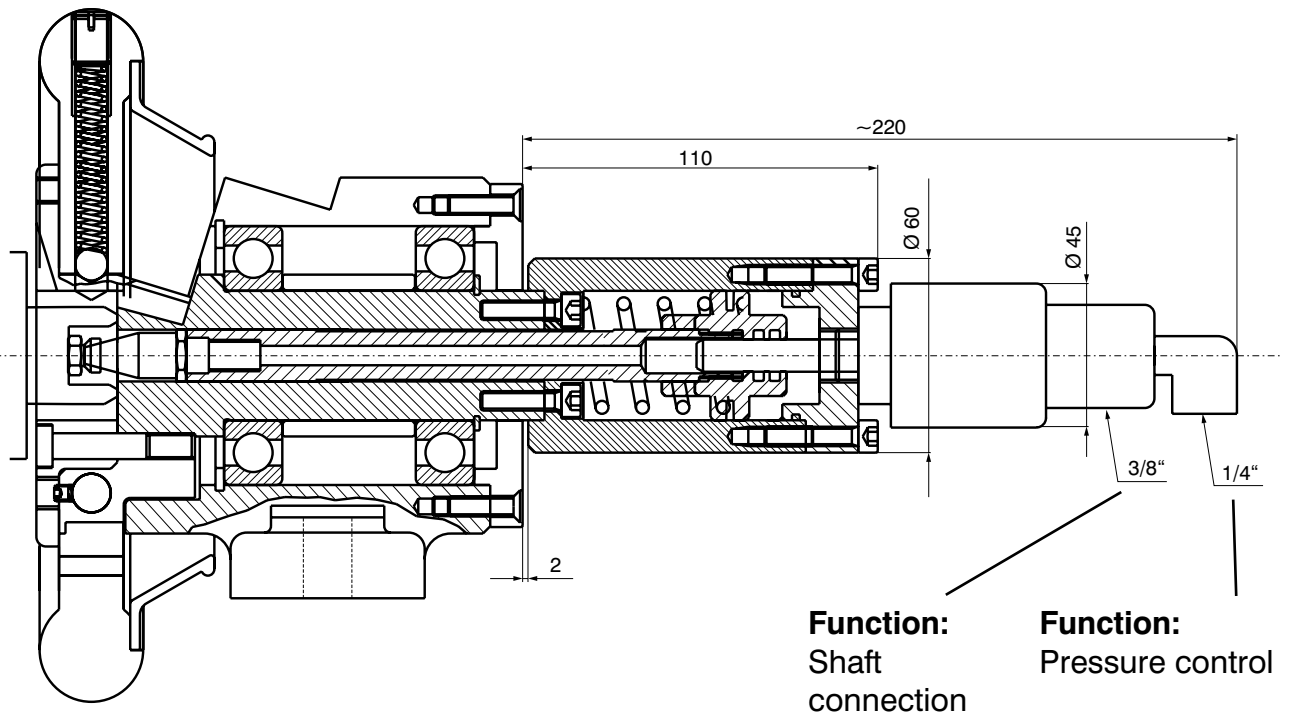
The handwheel lock type II is a very solid design.

**Handwheel lock only available in VT-style.**

On using the handwheel lock type II on type 30-40 and 40-50 the handwheel-Ø will be 250 mm.

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

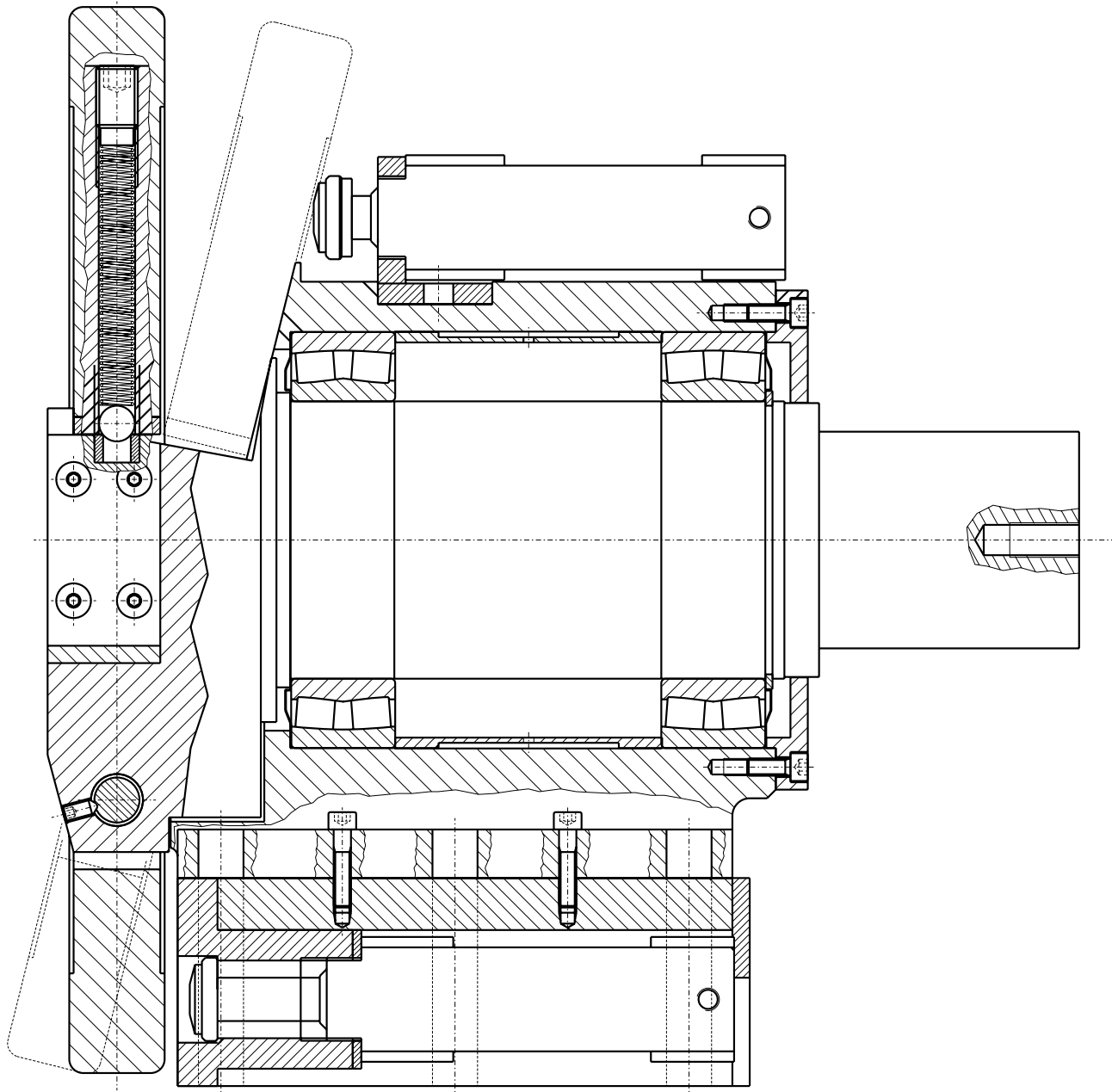
## Chuck with automatic and continuous airshaft inflation



To provide continuous air pressure during the operation, the air shaft must be provided with a union which can remain engaged to the Safety Chuck side air supply during the entire operation. This application is useful in varying the air pressure to the air shaft during operation.

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

# Safety Chuck hydraulic opening / closing



example: STW 120-180 hydraulic opening / closing

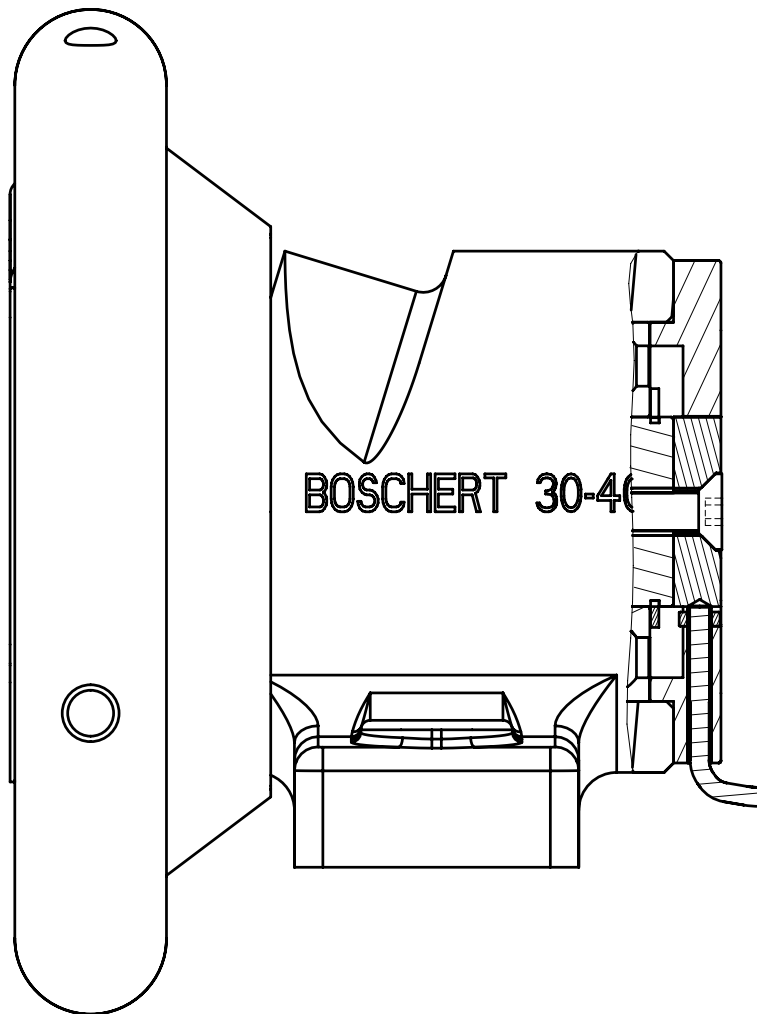
**Problem:**

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

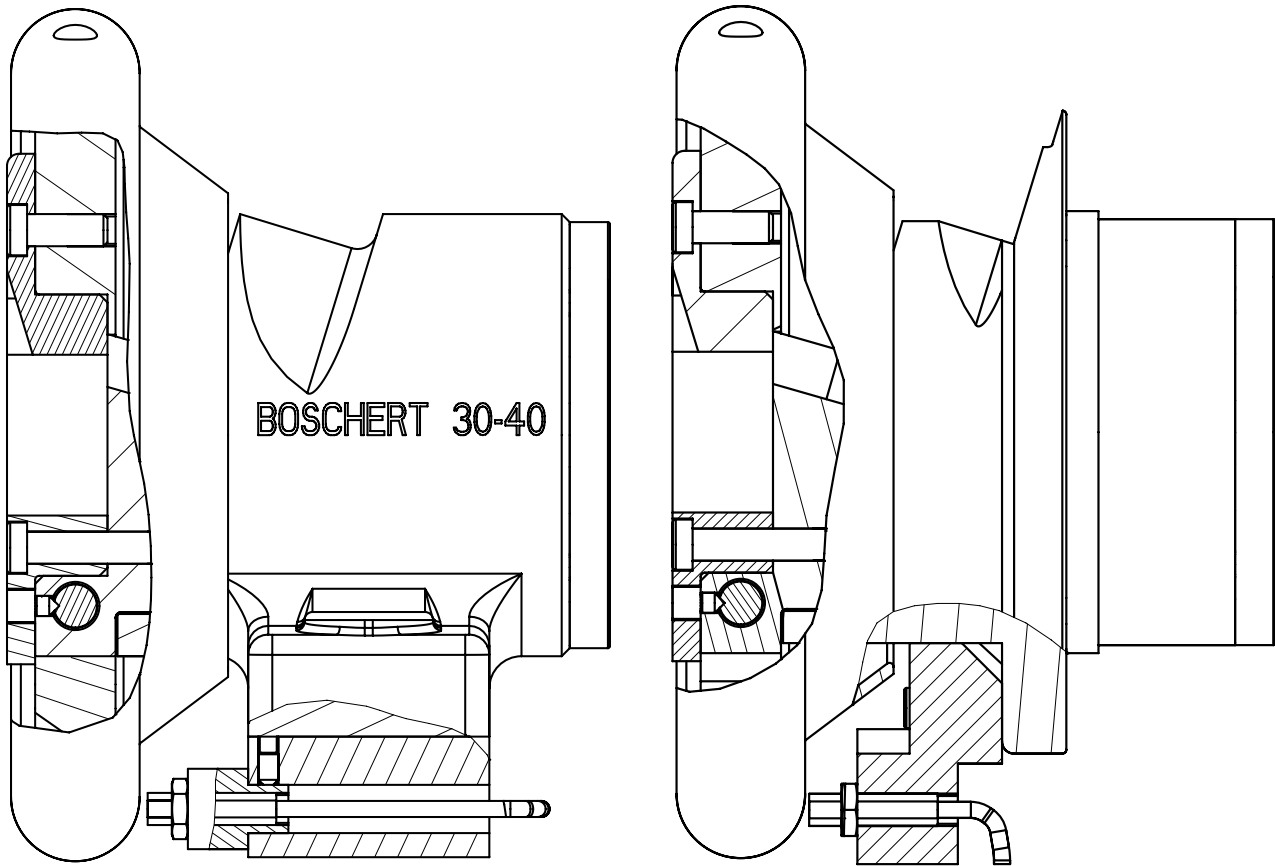
**Problem:**

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.

# Chuck with handwheel open/close recognition

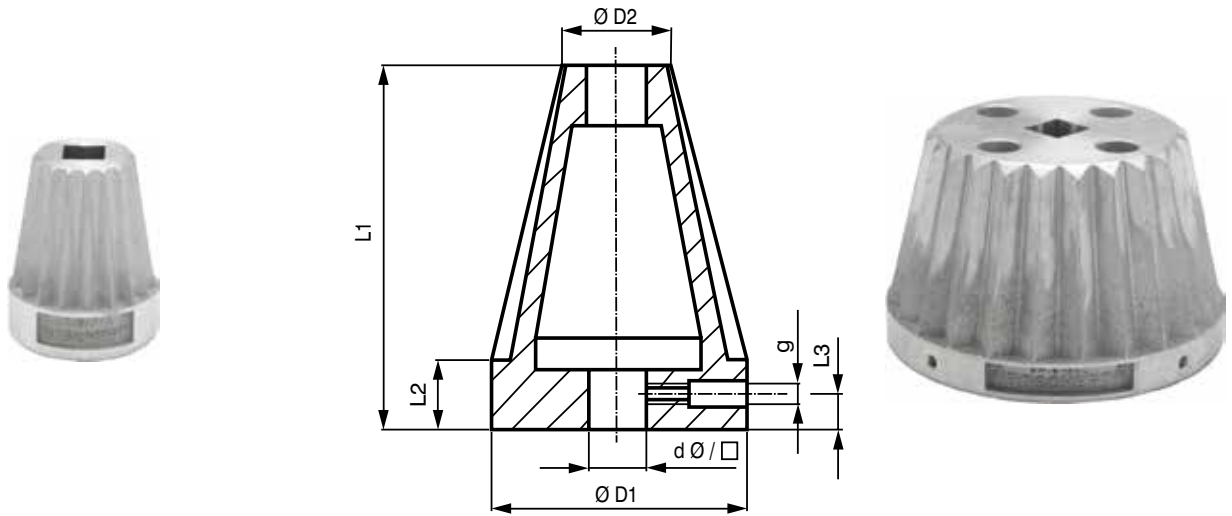


Foot mounted chuck

Flange mounted chuck

This electrical sensor gives you even more safety.

# 9.00 Aluminium Cones model I - VII



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

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

Special designs on request

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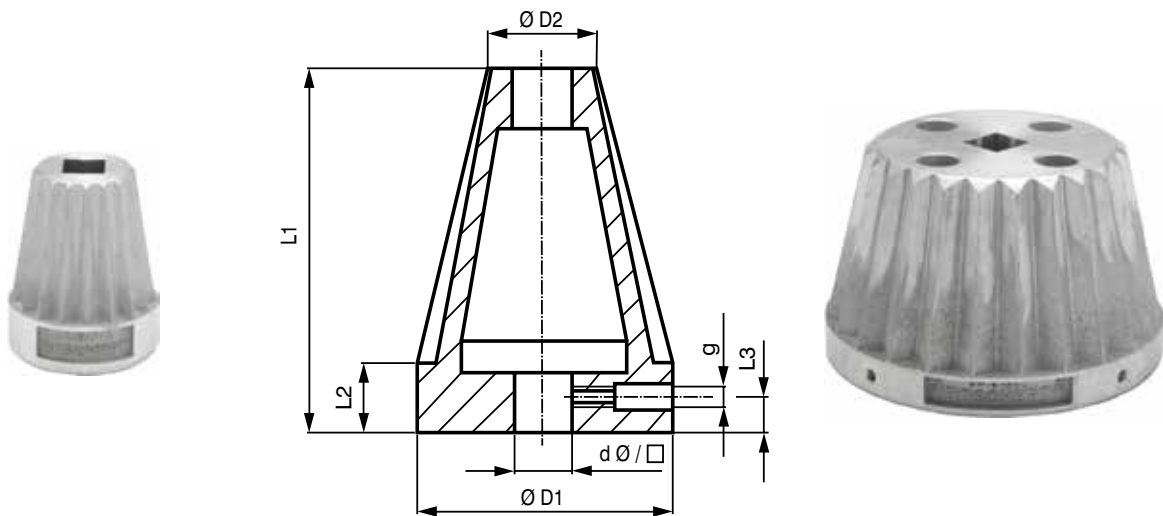
infokl@boschert.de  
www.boschert.de

Tel.: +49 (0) 7621 / 9593 0  
Fax: +49 (0) 7621 / 5518 4

**9.00**



# Aluminium cones model VIII - XIII

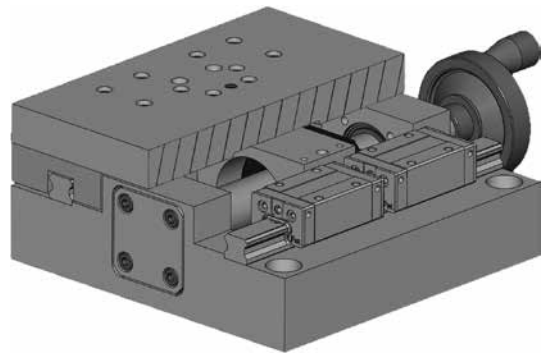
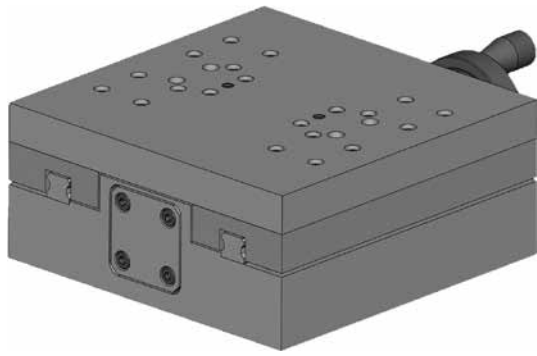


		Model			
		VIII		IX	X
		□ 30	□ 40		
<b>Tube diameters Ø</b>		60 - 120	68 - 120	120 - 180	225 - 280
<b>d</b>	Ø	30 - 40	>40 - 50	30 - 70	30 - 80
	□	30	40	40, 50	40, 50
<b>D1</b>		130		190	290
<b>D2</b>		55	63	115	220
<b>L1</b>		185	168	185	185
<b>L2</b>		35			
<b>L3</b>		18			
<b>g</b>		M10			

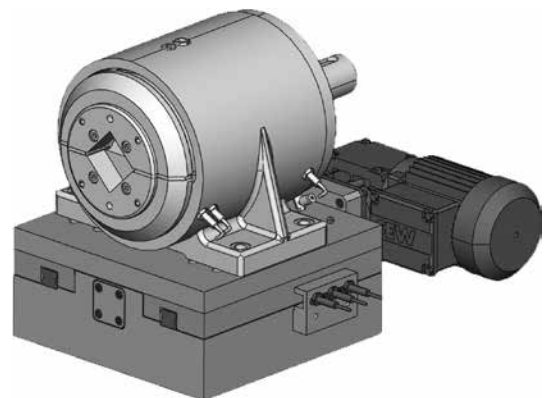
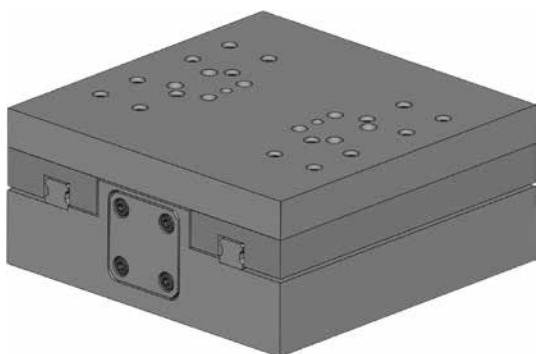
		Model		
		XI	XII	XIII
<b>Tube diameters Ø</b>		275 - 330	75 - 180	165 - 215
<b>d</b>	Ø	40 - 100	30 - 50	30 - 60
	□	40, 50	30, 40	30, 40
<b>D1</b>		340	190	225
<b>D2</b>		270	70	160
<b>L1</b>		185	155	185
<b>L2</b>		35		
<b>L3</b>		18		
<b>g</b>		M10		

Special designs on request

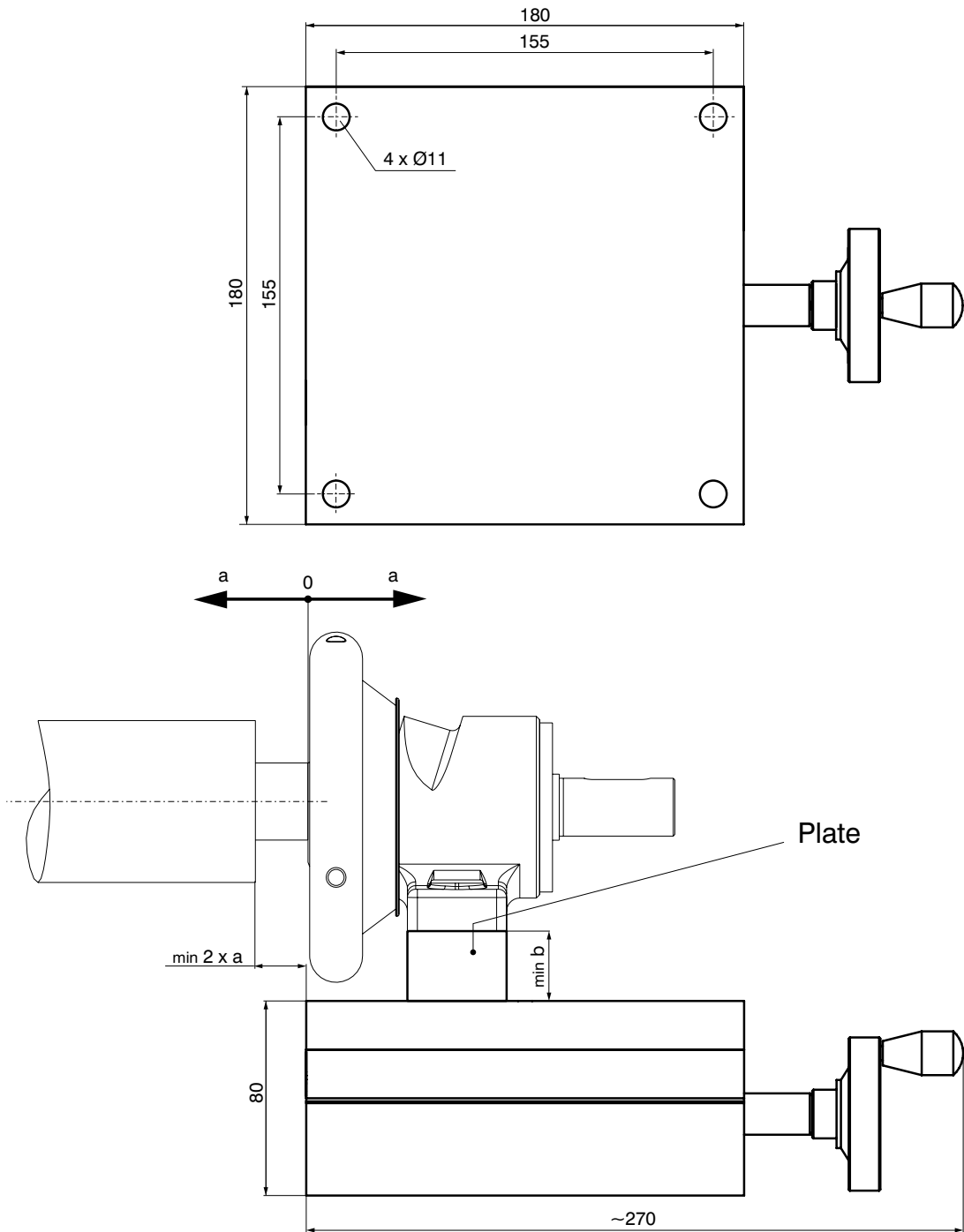
## 9.10 Overview Slide axial / radial



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

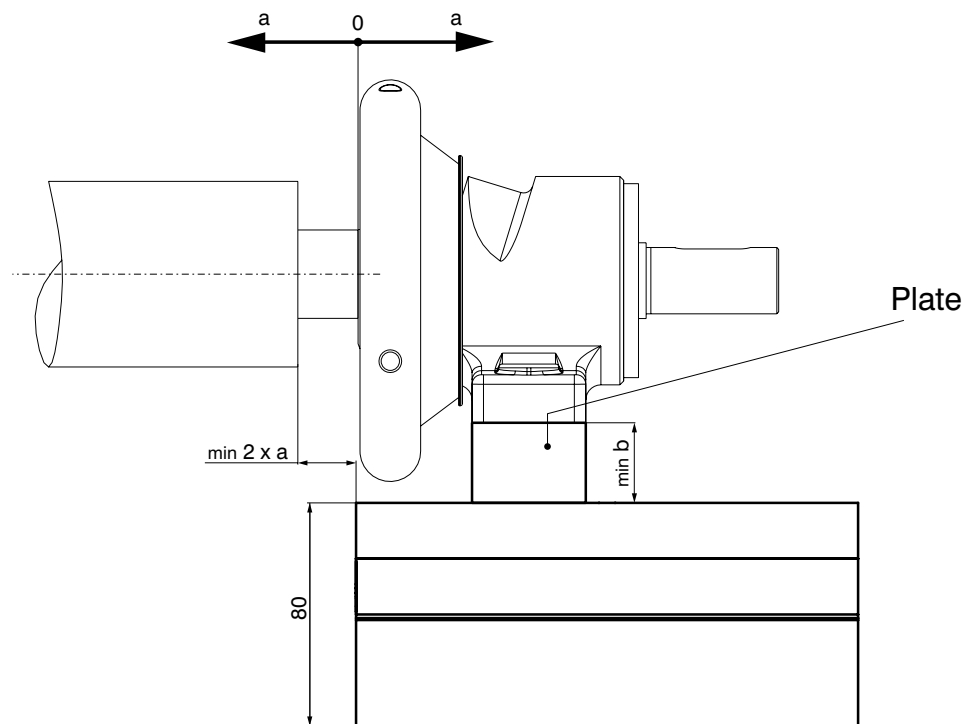
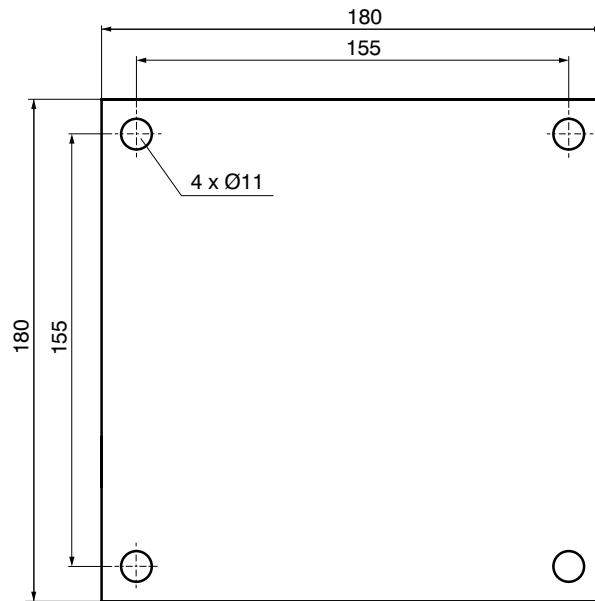


# 9.20 Axial Slide small active



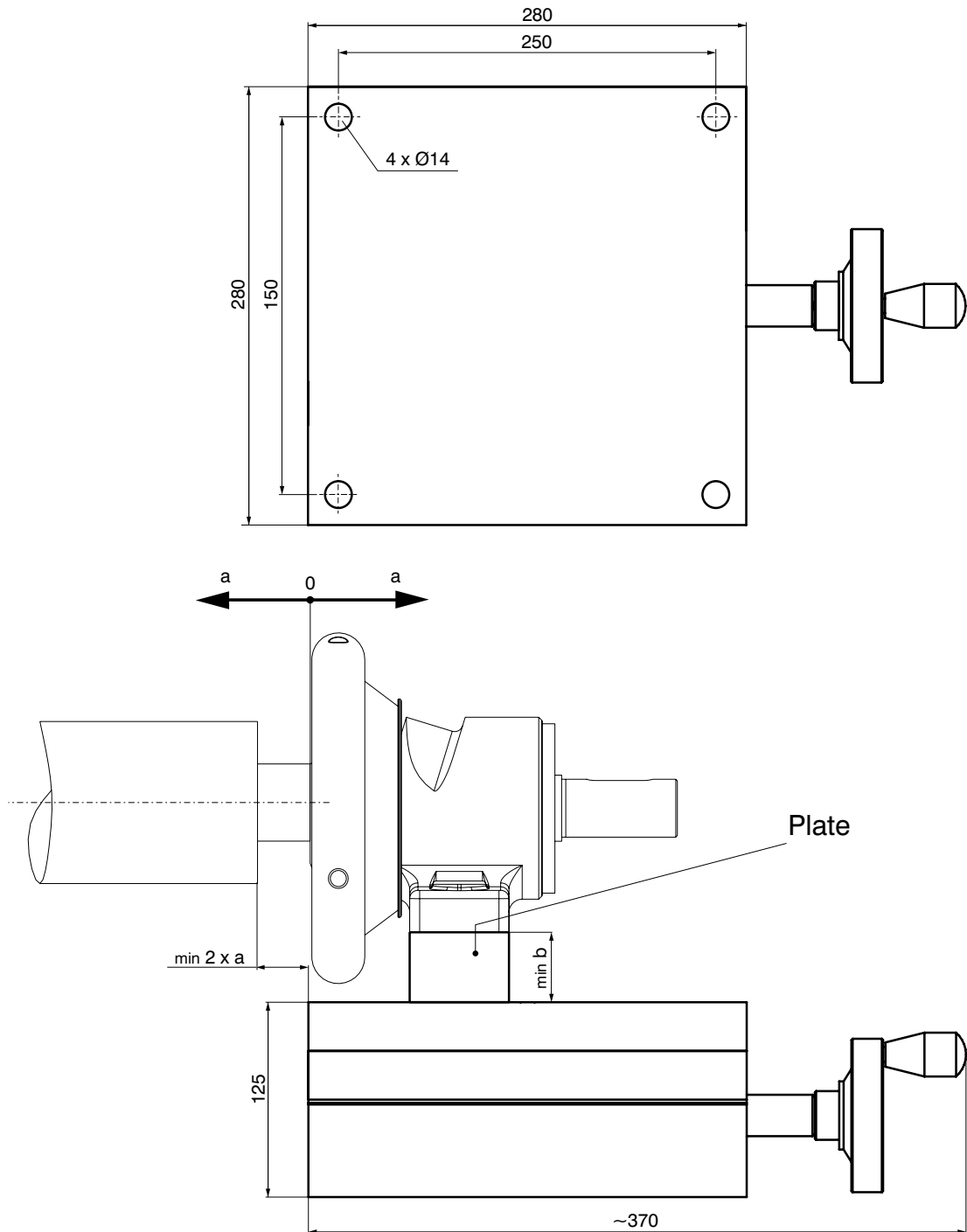
	a	b
<b>22-30</b>	25	50
<b>30-40</b>	25	50
<b>A40</b>	25	50

# Axial slide small passive



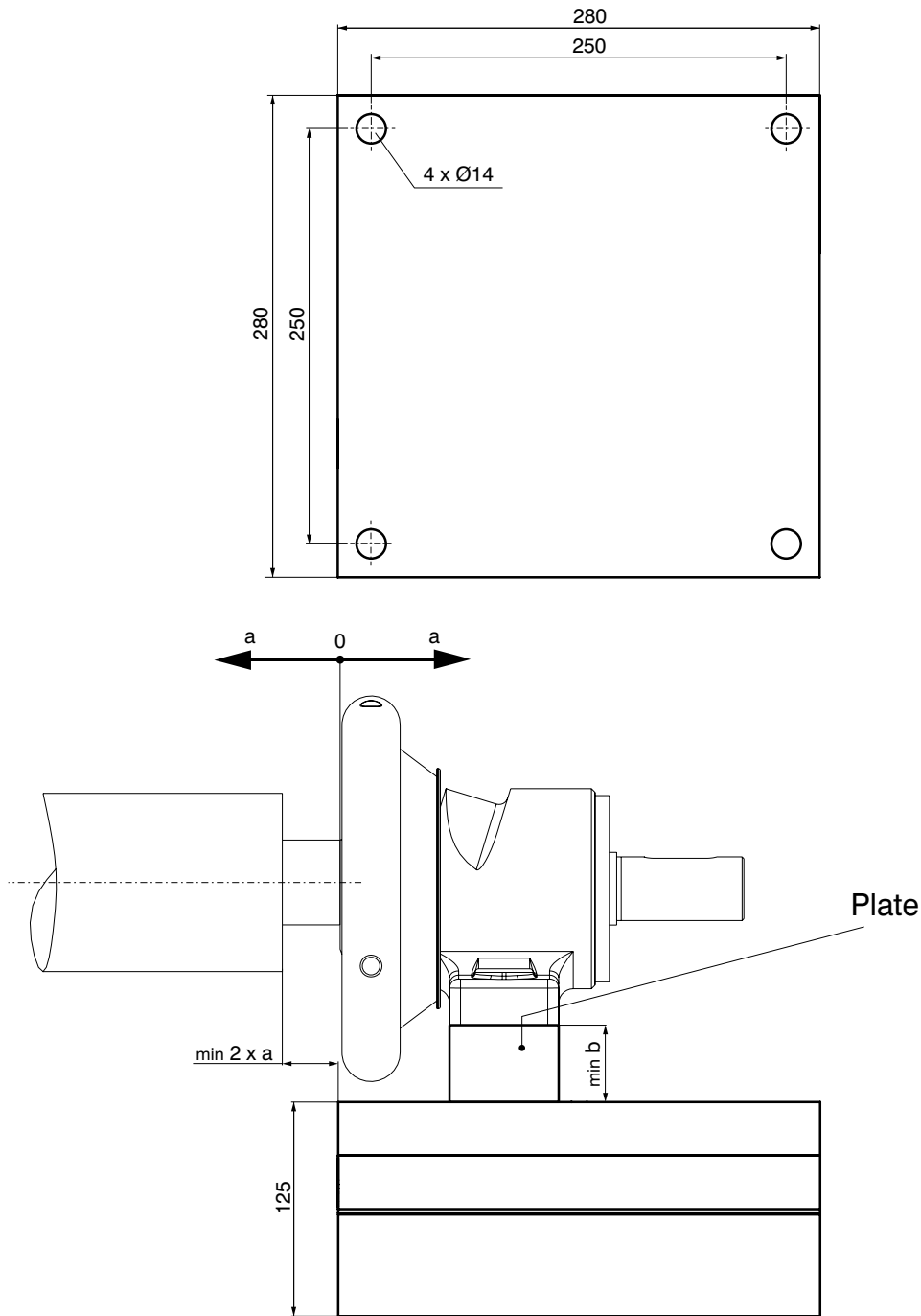
	<b>a</b>	<b>b</b>
<b>22-30</b>	25	50
<b>30-40</b>	25	50
<b>A40</b>	25	50

# Axial Slide big active



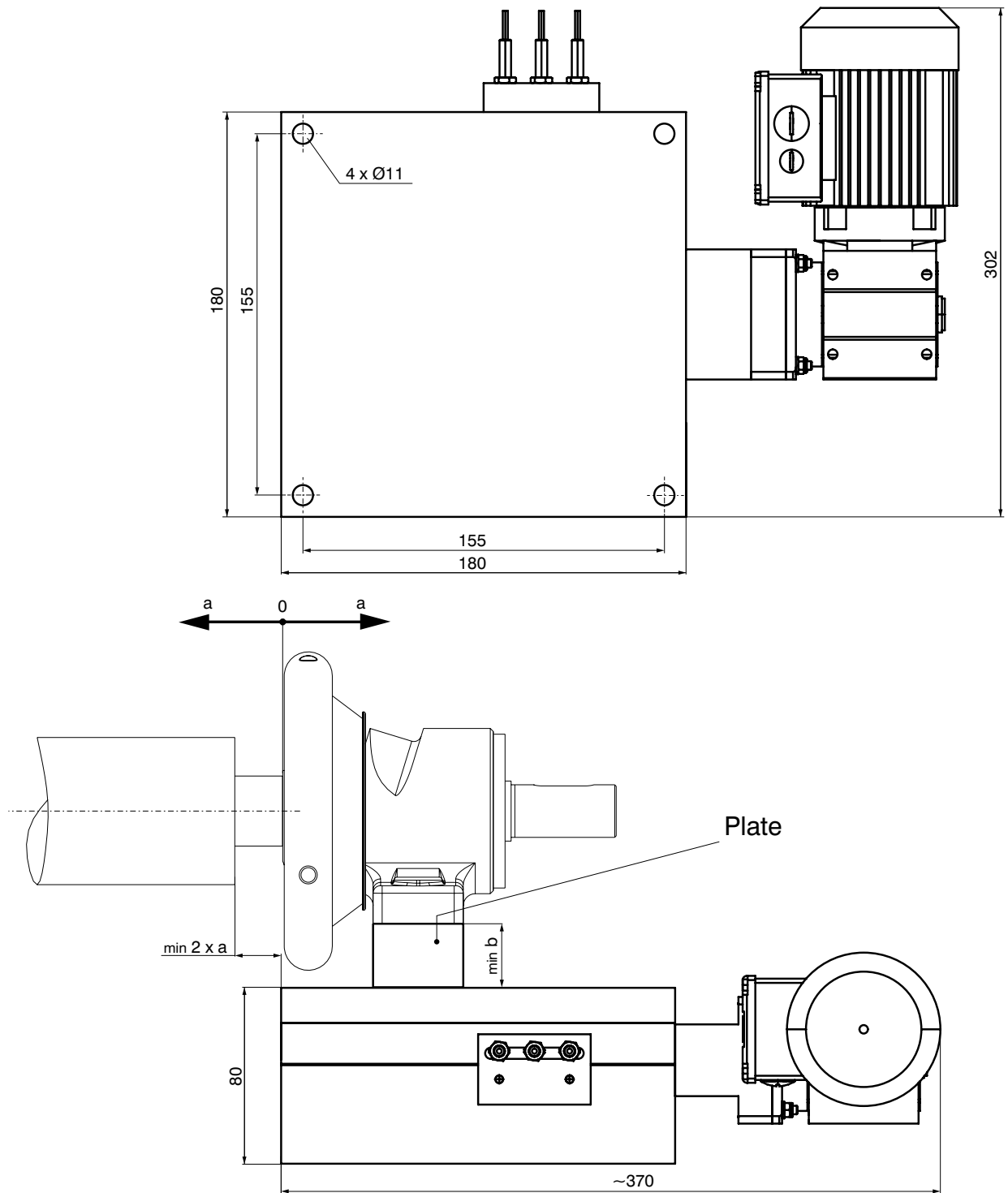
	a	b
<b>40-50</b>	25	60
<b>50-80</b>	25	80
<b>A50</b>	25	60
<b>A80</b>	25	80
<b>P40</b>	25	
<b>P50</b>	25	

# Axial Slide big passive



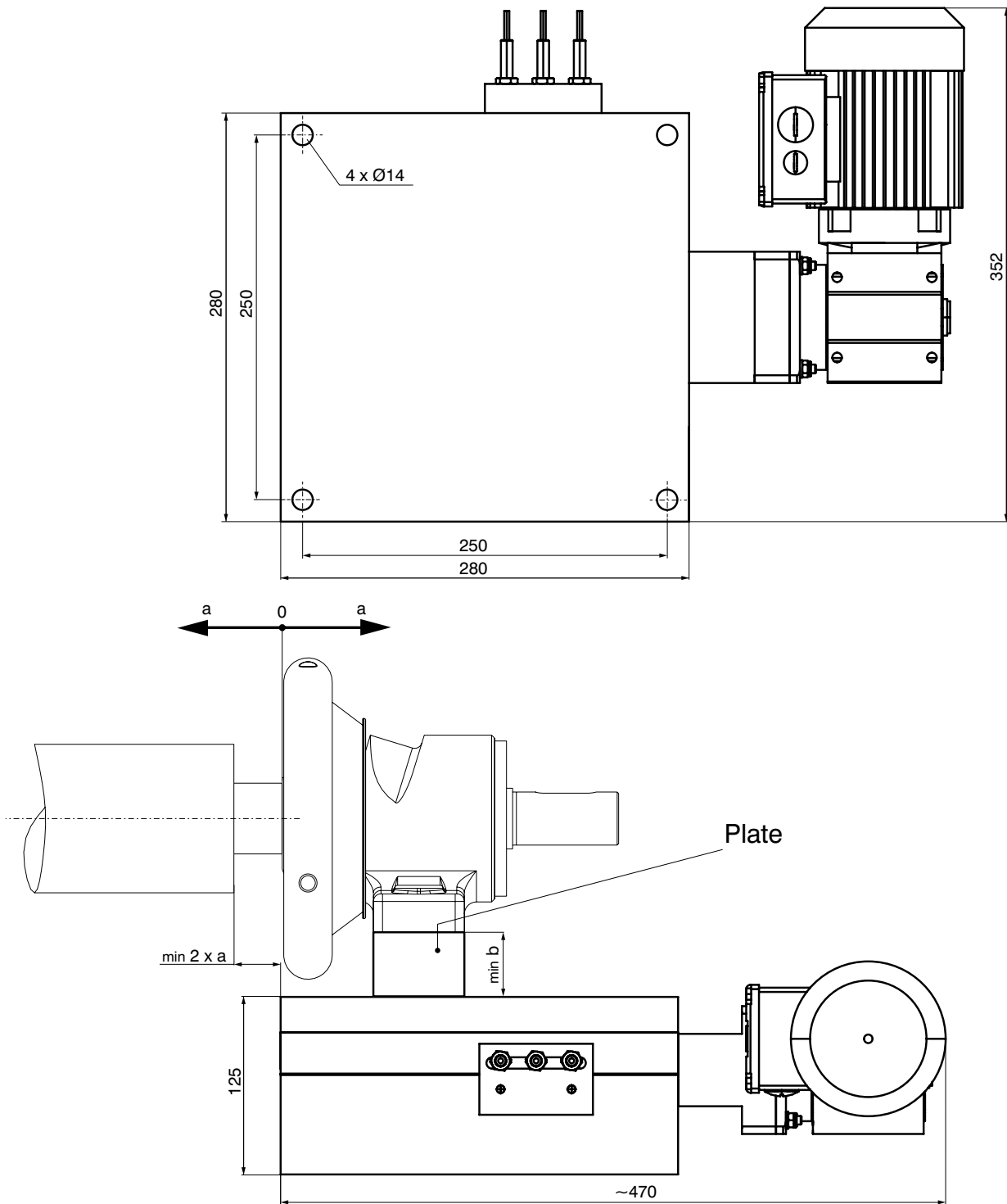
	<b>a</b>	<b>b</b>
<b>40-50</b>	25	60
<b>50-80</b>	25	80
<b>A50</b>	25	60
<b>A80</b>	25	80
<b>P40</b>	25	
<b>P50</b>	25	

# Axial Slide small with motor adjustment



	a	b
<b>22-30</b>	25	50
<b>30-40</b>	25	50
<b>A40</b>	25	50

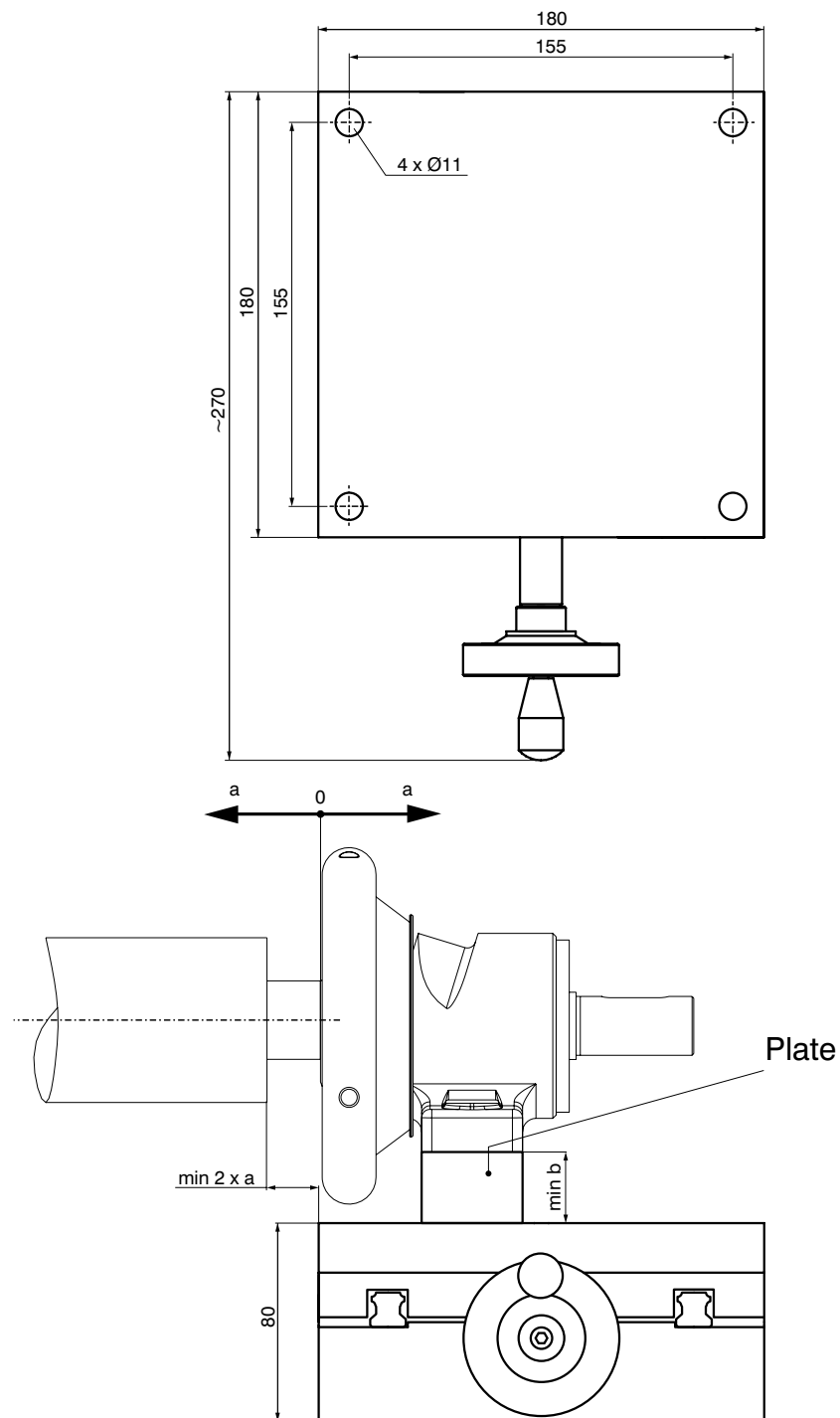
# Axial Slide big with motor adjustment



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

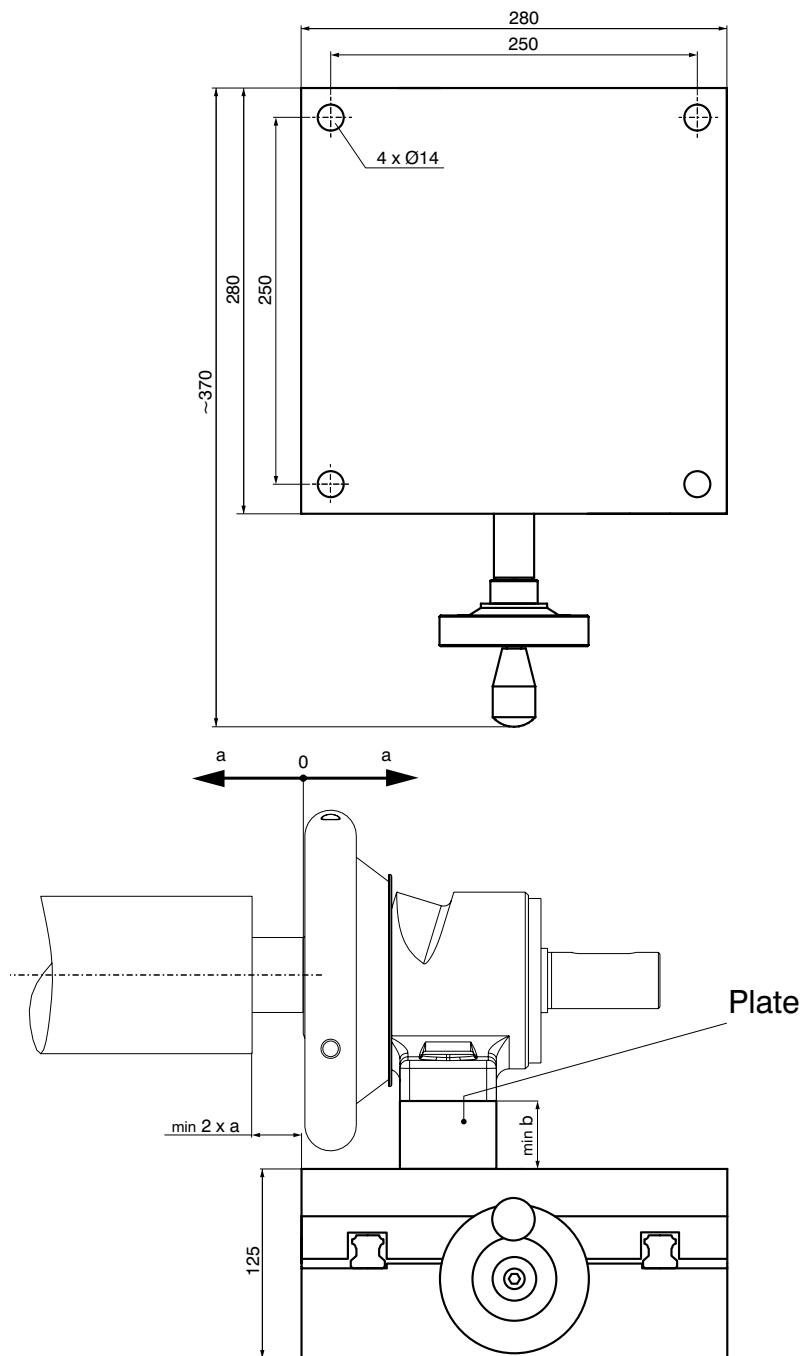


# Radial Slide small active



	a	b
<b>22-30</b>	25	50
<b>30-40</b>	25	50
<b>A40</b>	25	50
<b>Sliding-chuck</b>		
<b>22-30</b>	25	50
<b>30-40</b>	25	50

# Radial Slide big active



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

## 9.80 Tension Control Easy Wind



**Easy Wind:**  
Standard solution for one roll

Technical data	
Control box (W x H x D):	300 x 300 x 120 mm
Sensor:	88 x 30 x 65 mm
Electricity:	230 V / 50 Hz / 30 W
Compressed air:	max. 7 bar (105 psi) filtered 0,3 $\mu$ m
Output pressure:	max. 5 bar
Roll / lap / reel $\varnothing$ :	max. 1600 mm
Enclosure:	IP54

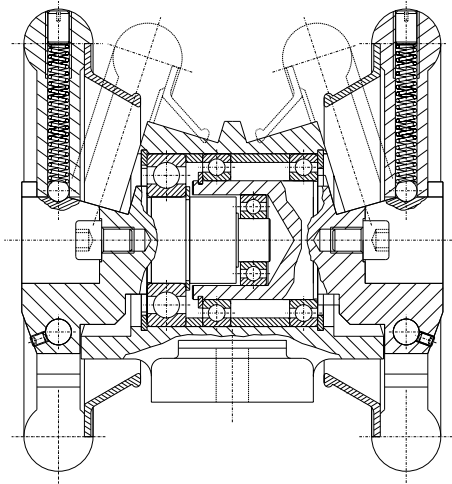
### Options:

**Easy Wind Twin:** The solution for two rolls ( two sensors, one control unit )

**Easy Wind Sensitive:** Each brake caliper can be shut on or off

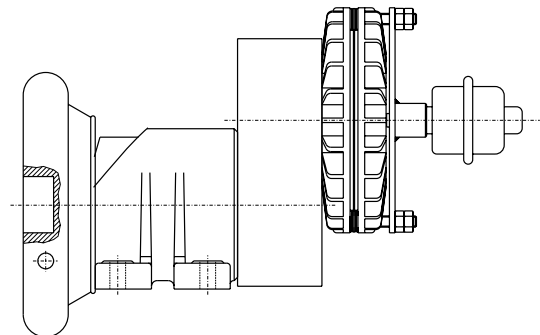
**Further solutions on request.**

# 10.00 Overview special solutions



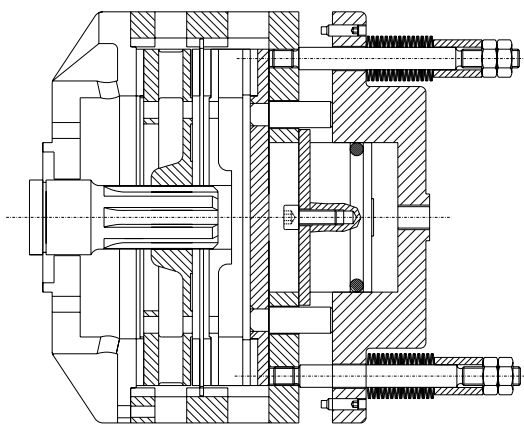
Twin STO Chucks

Info: 10.01



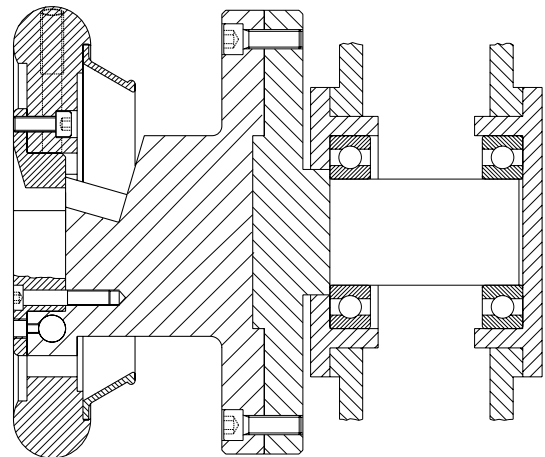
Chuck with ESB brake and  
intermediate gearbox

Info: 10.02



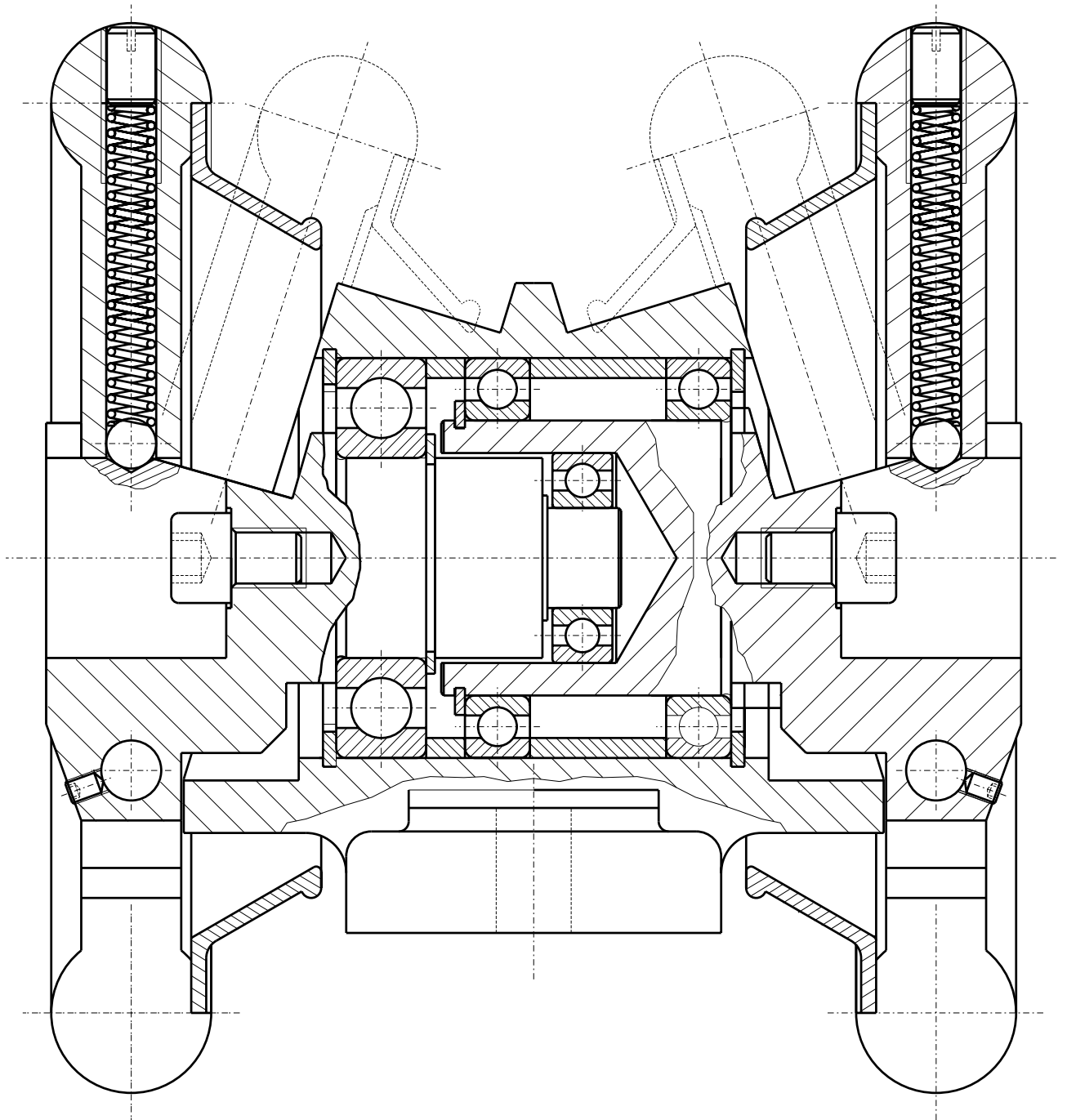
Spring-loaded brake

Info: 10.03



Installation of Boschert-Chucks  
in existing winding unit

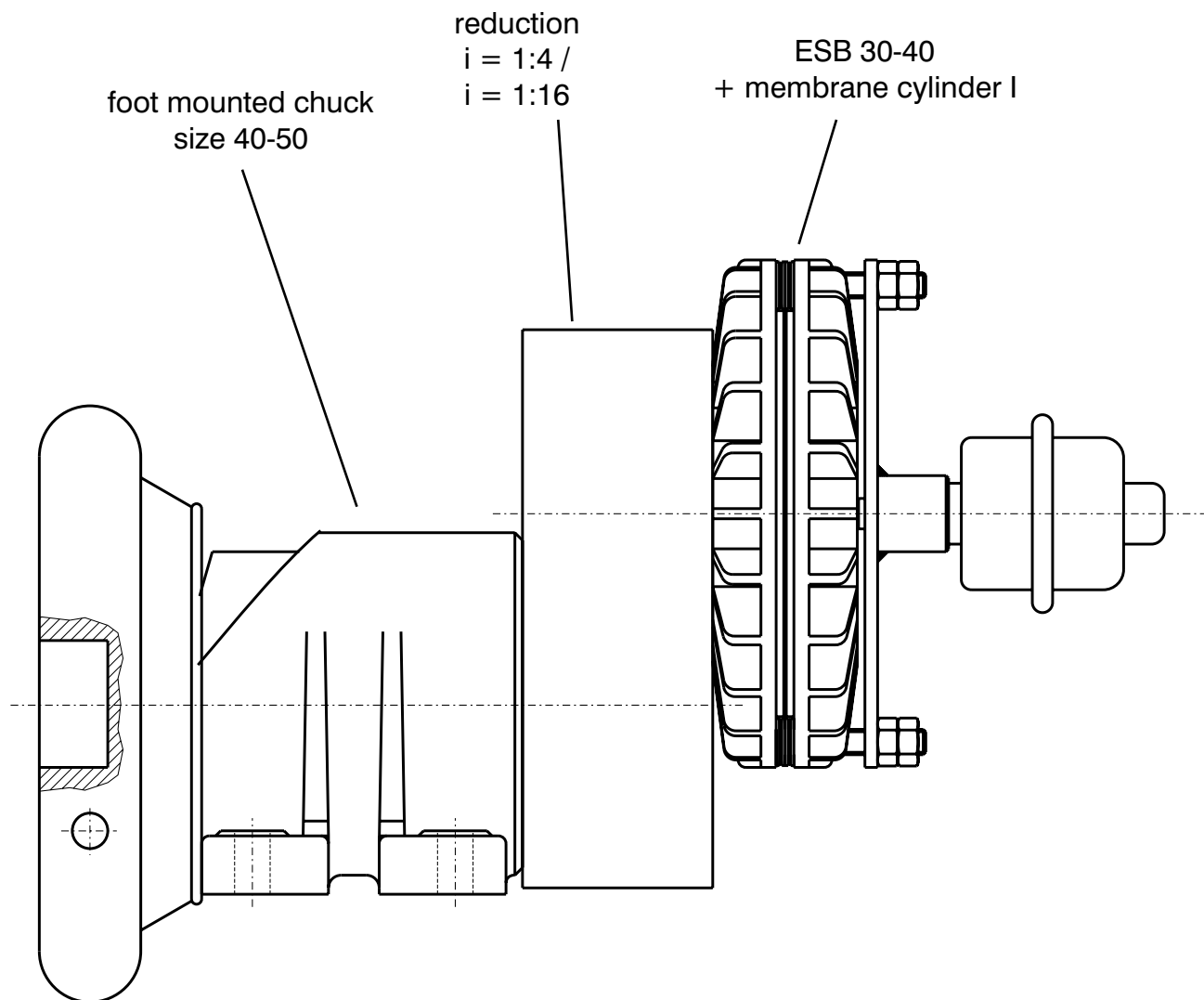
Info: 10.04



Handwheels turn independently of each other

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

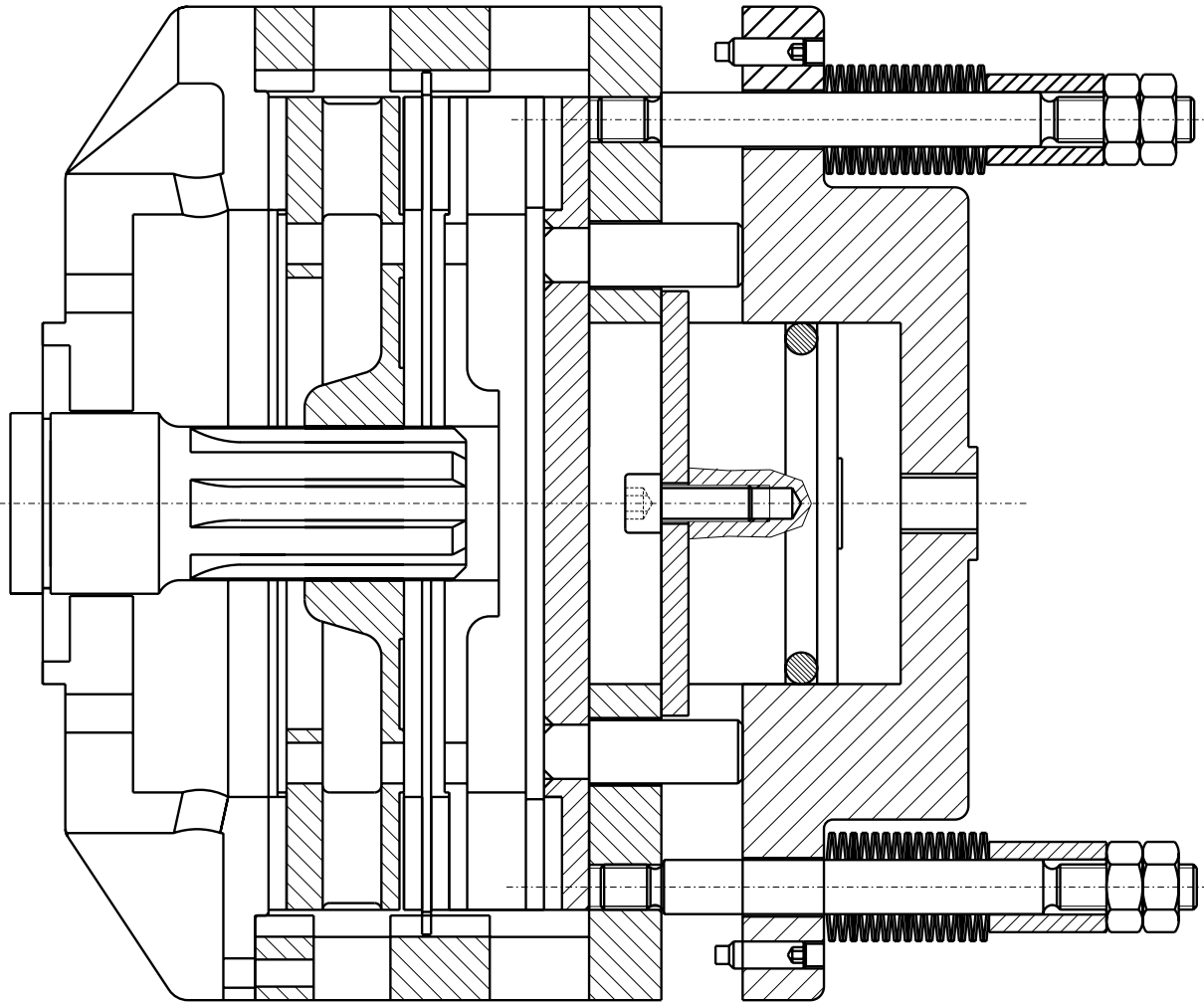
### **Problem:**

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.

## Spring-loaded brake

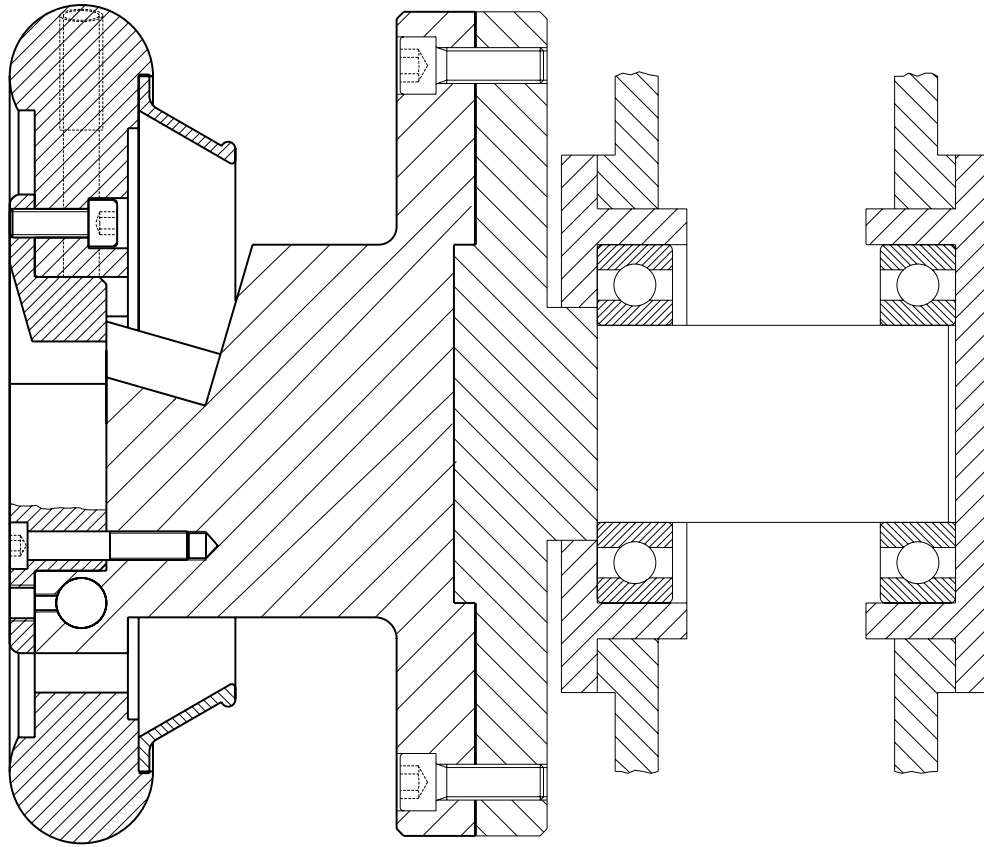


Security-brake

**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.

## Installation of Boschert-Chucks in existing winding unit



### **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

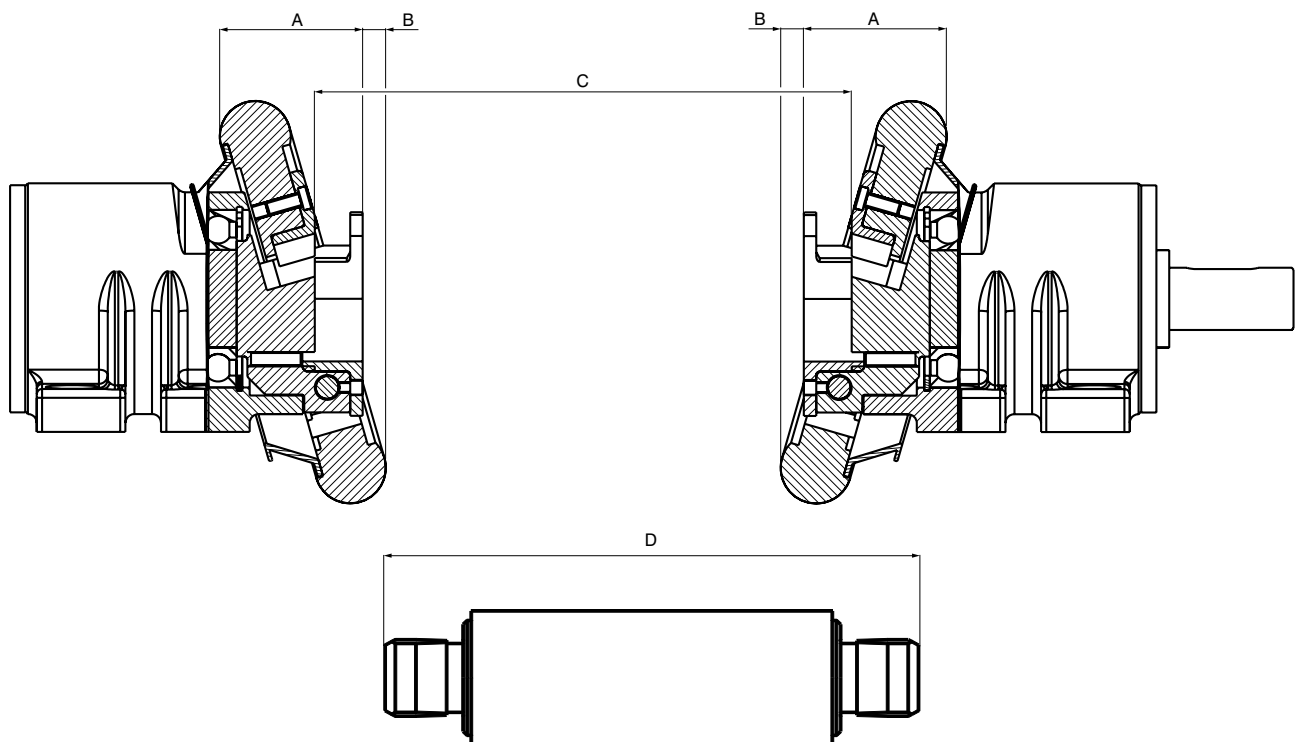
## Boschert regulations:

### Attention!

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.**

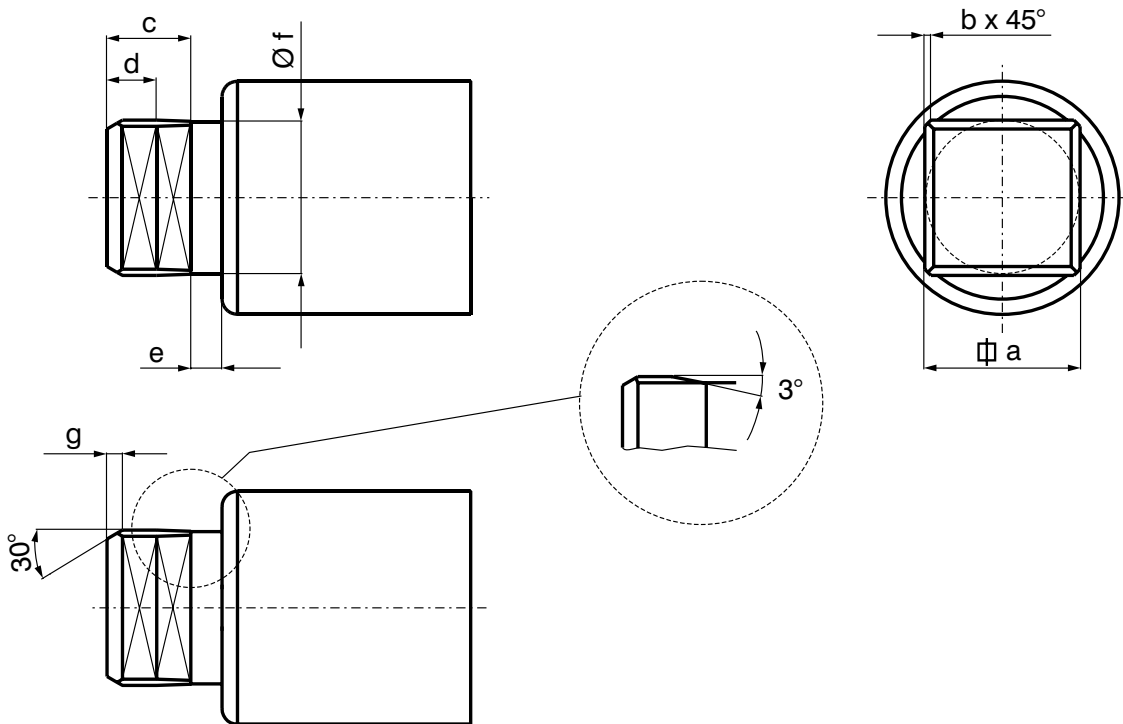
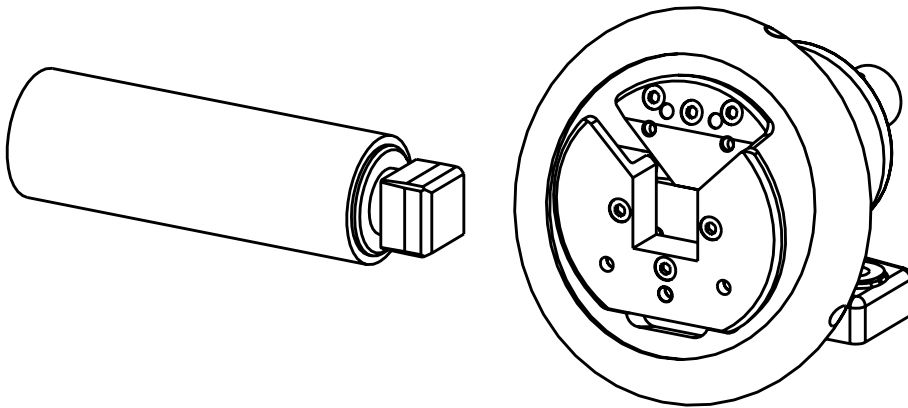
Only by following these regulations, the functions of the Safety Chucks is ensured.



	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	18	1	2

x = min. clearance  
y = max. clearance

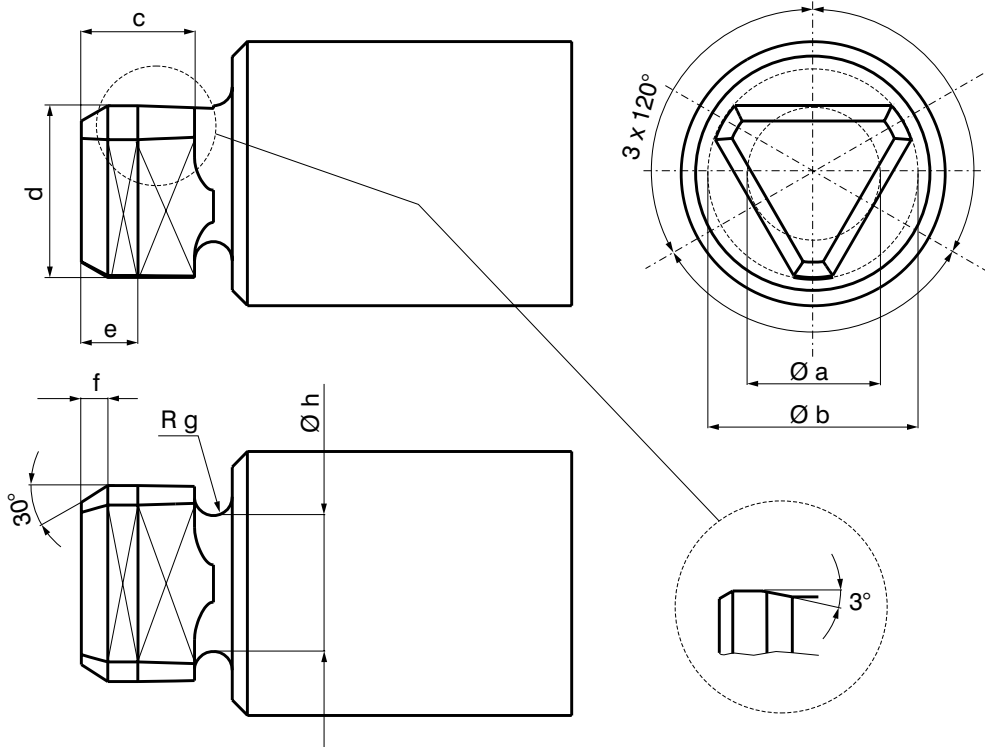
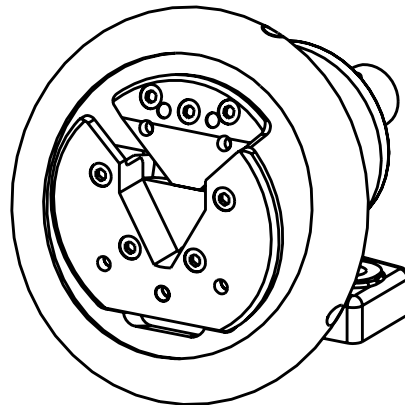
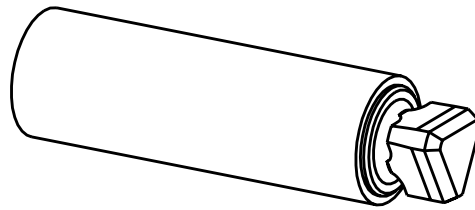
# 11.10 Winding Beam Dimensions Journal C / VT1 / VT2



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

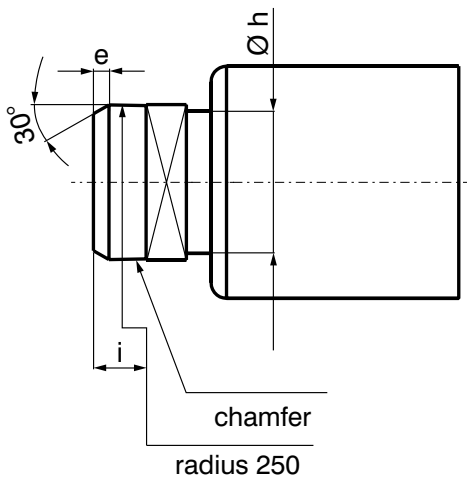
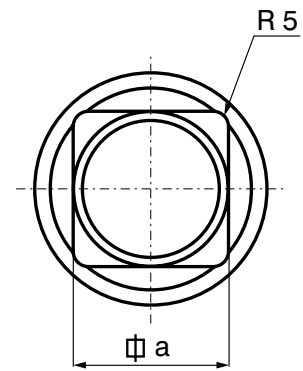
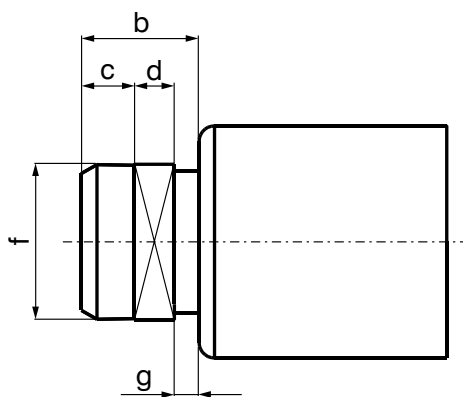
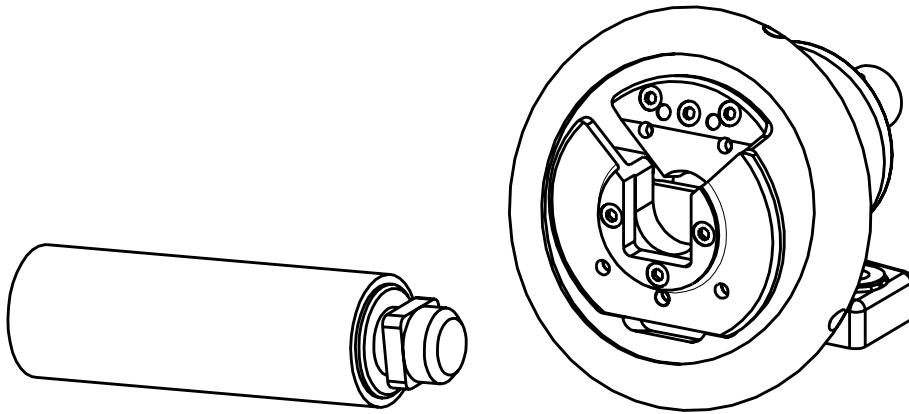
VT2: 50-80 a > 60 mm (2 1/2") = „b“ = 4

# Winding Beam Dimensions Journal VT6



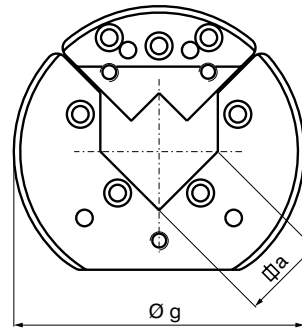
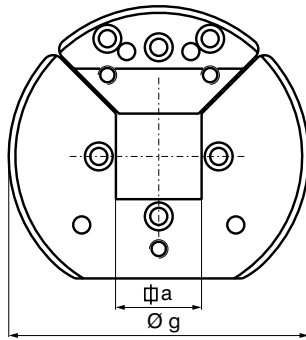
	VT6							
	a f7	b f7	c	d f7	e	f <sup>+1</sup> <sub>0</sub>	g	h
<b>Mini</b>	20	27	11.5	23.5	7.5	3	4	20 -0.1/-0.2
<b>19-25</b>	20	27	18.5	23.5	12	3	4	20 -0.1/-0.2
<b>22-30</b>	30	44	21.5 -0.2	37	14	5	4	30 -0.1/-0.2
<b>30-40</b>	36	54	24 -0.2	45	15	7	5	36 -0.1/-0.2
<b>40-50</b>	46	69	26 -0.2	57.5	16	7	5	46 -0.1/-0.2
<b>50-80</b>	67	104	34 -0.3	85.5	20	7	8.5	67 -0.2/-0.4
<b>80-120</b>	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 <sup>+1</sup> <sub>0</sub>	Ø f h7	g	Ø h -0.2	i
<b>22-30</b>	30 +0.1/+0.3	32.5	14 +0.2/+0.3	10.5 -0.1	4	30	8 +0.1	26	6
<b>30-40</b>	40 +0.1/+0.3	37	18 +0.2/+0.3	11 -0.1	5	40	8 +0.1	36	6
<b>40-50</b>	50 +0.1/+0.3	38	17 +0.2/+0.3	13 -0.1	5	50	8 +0.1	46	6
<b>50-80</b>	50 +0.2/-0.2	55	23 +0.2/+0.3	17 -0.1	6	50	15 +0.1	45	9
	80 +0.1/+0.3	5	23 +0.2/+0.3	17 -0.1	6	80	15 +0.1	74	9

# 11.20 Dimension Sheet VT-inserts

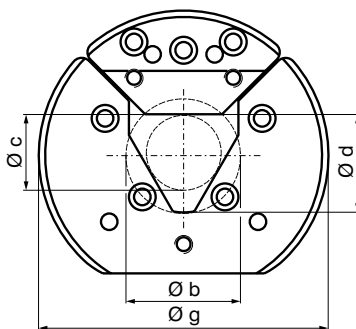


**VT1/VT2**

	dimension a (mm) H8											g
<b>22-30</b>	25	30										104
<b>30-40</b>		30	32	35	40							140
<b>40-50</b>					40	45	50					144
<b>50-80</b>							50	60	80			195
<b>80-120</b>									80	100	120	230

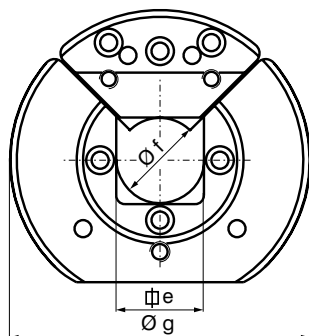
	dimension a (inch/mm) H8											g
<b>22-30</b>	1"	1 1/8"	1 1/4"									104
	25.4	28.57	31.75									
<b>30-40</b>			1 1/4"	1 1/2"								140
			31.75	38.1								
<b>40-50</b>			1 1/4"	1 1/2"		1 3/4"	2"					144
			31.75	38.1		44.45	50.8					
<b>50-80</b>							2"	2 1/2"	3"			195
							50.8	63.5	76.2			
<b>80-120</b>										4"		230
										101.6		

VT2: 50-80 a = max. 63.5



**VT 6**

	dimensions (mm)			
	b	c	d	g
<b>22-30</b>	45	30	37.5	104
<b>30-40</b>	55	36	45.5	140
<b>40-50</b>	70	46	58	144
<b>50-80</b>	105	67	86	195
<b>80-120</b>	150	96	123	230



**VT 7**

	dimensions (mm)		
	e	f F7	g
<b>22-30</b>	31	30	104
<b>30-40</b>	41	40	140
<b>40-50</b>	51	50	144
<b>50-80</b>	51	50	195.5
	81	80	195.5

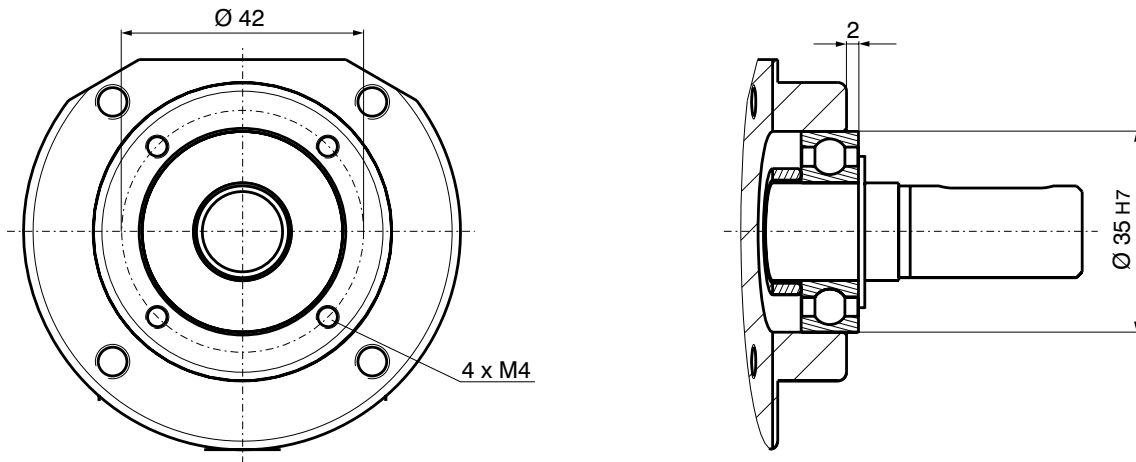
Special version on customer request

**Generally Safety Chucks have to be closed by hand always.**

(b) Changes reserved

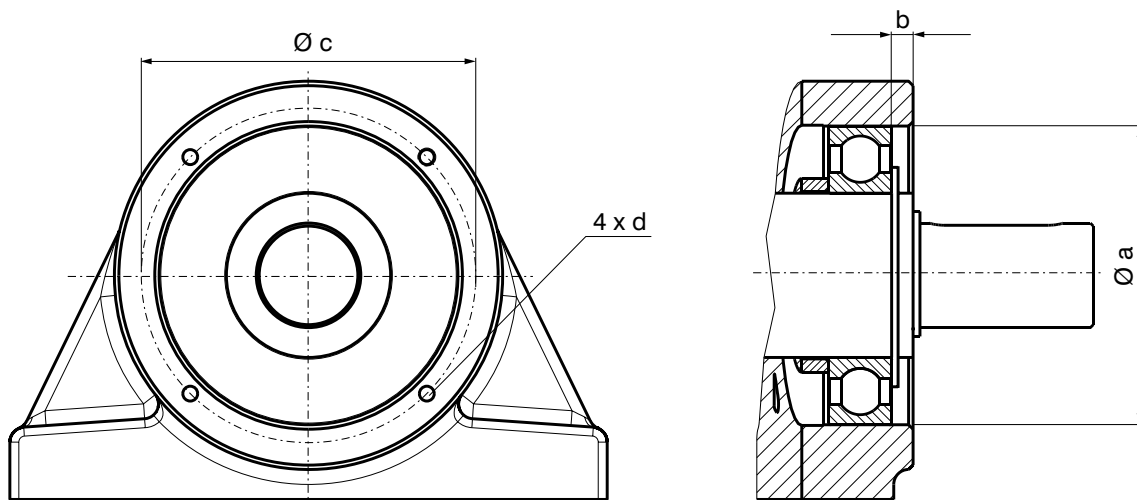
# 11.30 Connecting Dimensions Mini - 40-50

## 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
<b>19-25</b>	47	3	56	M6
<b>22-30</b>	62	2	73.5	M6
<b>30-40</b>	80	5	93	M6
<b>40-50</b>	100	7.5	112	M6

On using brakes and clutches d = M8

# Support

green menu  
back to main menu

+ shows further  
menu entries

blue menu  
Please double-click  
to get to index

red menu  
special orders

The screenshot shows the Adobe Acrobat interface with a PDF catalog. The left sidebar contains a menu with various categories, and the right pane displays the 'Inhaltsverzeichnis' (Table of Contents) for 'Das Unternehmen' and 'Boschert-Lager'. The table of contents lists various products and their corresponding page numbers. At the bottom of the right pane, there is contact information for Boschert, including the address, phone, fax, and email. A blue box highlights the contact information, and a red box highlights the 'aktuelle Seite drucken' (print current page) option in the sidebar menu.

Section	Page
1.00 Inhaltsverzeichnis	
1.10 Das Unternehmen	1.10-1.12
2.00 Boschert-Lager	
2.00 Boschert-Lager Mini	2.00
2.10 Boschert-Lager 19-25	2.10
2.20 Boschert-Lager 22-30	2.20
2.30 Boschert-Lager 30-40	2.30
2.40 Boschert-Lager 40-50	2.40
2.50 Boschert-Lager 50-80	2.50
2.54 Aufbau Boschert C-Lager	2.54
2.55 Aufbau Boschert VT-Lager	2.55
2.60 Boschert-Lager 80-120	
2.70 Boschert-Lager 120-180	
2.80 Boschert-Lager 170-200	
2.90 Boschert-Lager 170-230	
3.00 Boschert Schiebelager	
4.20 Boschert Automatik-Lager	
4.60 Boschert Pneumatik-Lager	
5.00 Allgemeine Informationen	
6.00 Bremsen	
7.00 Rutschkupplungen	
8.00 Zubehör	
8.40 Sonderlösungen	
9.00 Formulare	
aktuelle Seite drucken	
Formular zurücksetzen	
Gehe zu vorheriger Ansicht	

Matzenstraße 1  
79541 Liersch-Hausingen  
Tel.: 07621 / 95 93 24 - 26  
Fax: 07621 / 95 194  
1.00

To get to the catalog pages directly, please choose and click desired page in table of contents ( page on right side ).

Please click to blue framed text or Info-Box to get to desired page.

## Version 03/2012



- neues Layout
- neu Axial- / Radialschieber
- neue Kapitel (Sicherheit & Montage, Masse & Toleranzen, Optionen, Zubehör)
- Schiebeklapplager für / mit Motorverstellung
- Bahnzugsteuerung Easy Wind



- new Layout
- new axial / radial slide
- new chapter (Safety & Assembly, Measure & Tolerance, Options, Accessoire)
- Sliding Chucks for / with motorized adjustment
- Tension control Easy Wind



- nouvel disposition
- nouvel semelle support à réglage axial / radial
- nouveau chapitre (Sécurité & Montage, Dimensions & Tolérances, Option, Accessoires)
- Palier Boschert à réglage pour / avec adaptation motorisation
- Régulateur de tension Easy Wind



- nuovo layout
- nuovo guida scorrimento assiale / radiale
- Capitolo nuovo (Sicurezza & Montaggio, Massa & Tolleranze, Opzioni, Accessori)
- Supporto scorrevole predisposto per / con regolazione assiale automatica
- Controllo tensione Easy Wind

## Version 08/05



- neu Bremse „Multi“
- alle Kapitel als einzelne PDF-Dateien auf CD



- new Brake „Multi“
- all chapter as PDF file on CD



- nouveau frein „Multi“
- tous les classeurs en format PDF



- nuovo Freno „Multi“
- Tutti i capitoli in formato PDF

## Version 06/06



- Schiebelager 22-30 100 mm Schiebeweg



- Sliding chuck 22-30 100 mm adjustment



- Palier Boschert à réglage 22-30 100 mm course



- Supporto scorrevole Boschert 22-30 100 mm corse