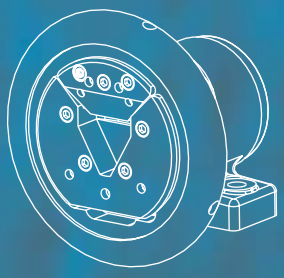

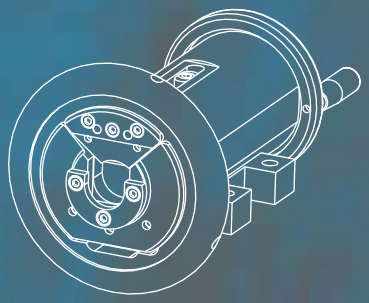

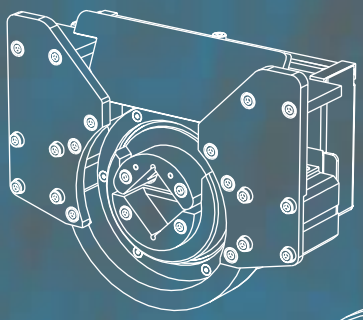

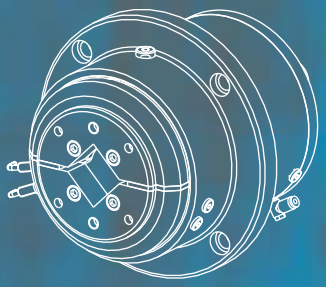

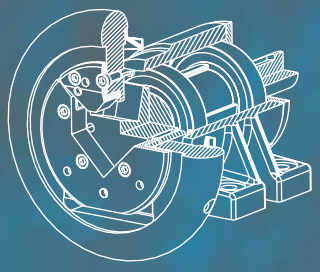

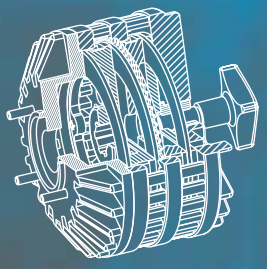

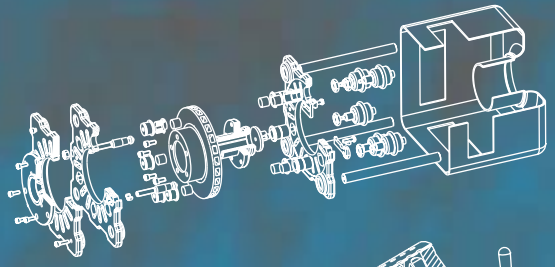

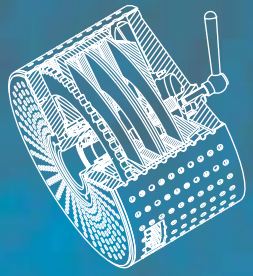

Contact

Helmut Friedlin
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phone: 07621 - 9593-24
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Verkauf und Einkauf
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79541 Lörrach-Hauingen

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Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

Fachausschuß
Druck und Papierverarbeitung
Prüf- und Zertifizierungsstelle
im BG-PRÜFZERT

Hauptverband der gewerblichen
Berufsgenossenschaften

Translation

BG Test Certificate

04117
no. of certificate

Name and address of the holder of the certificate: (customer)	Boschert GmbH & Co. KG Maschinen- und apparatebau Mattenstr. 1 D-79541 Lörach
Name and address of the manufacturer:	see above

Ref. of customer:
(A 04165)

Ref. of Test and Certification Body:
612.17 - Dr/Ki
Produktschlüsselnummer: 900.2001

Date of issue:
19.11.2004

Product designation:	Safety Chucks
Type:	14-20 (mini) / 19-25 / 22-30 / 30-40 / 40-50 / 50-80
Intended purpose:	
Testing based on:	GS-DP-01 Grundsätze für die Prüfung und Zertifizierung von Druck- und Papierverarbeitungsmaschinen 11/2004

Kopie

The type tested complies with the test basis specified above.
The holder of the certificate is entitled to affix the BG-PRÜFZERT mark shown overleaf to the products complying with the type tested, including the specification given under the heading ‘remarks’.

The present certificate will become invalid at the latest on:

30.11.2009

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 April 2004.

.....
Signature (Dipl.-Ing. Schwind)

Postal address:
Postfach
65173 Wiesbaden

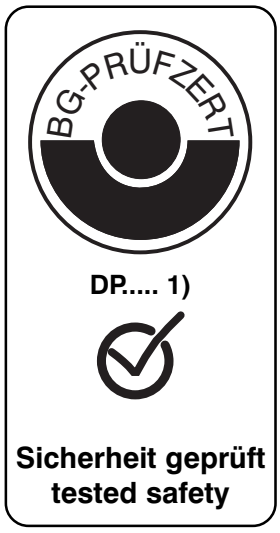
Office:
Rheinstraße 6-8
65185 Wiesbaden

Phone: 0611 / 131-219
Fax: 0611 / 131-155

In any case, the German original shall prevail.

Reverse side of the BG Test Certificate

BG-PRÜFZERT mark



1) no. of certificate

Where necessary, the BG-PÜFZERT mark must be supplemented by additional wording reflecting the details given in the certificate. In such cases, the mark may look slightly different from the image shown here.

The validity of the test certificate (number 04117) is extended until .....

. . . . . .
Date

. . . . . .
Signature

Fachausschuß
Druck und Papierverarbeitung
Prüf- und Zertifizierungsstelle
im BG-PRÜFZERT

Hauptverband der gewerblichen
Berufsgenossenschaften

Translation

GS-Prüfbescheinigung

99054
no. of certificate

Name and adress of the holder of the certificate: (customer)
Boschert GmbH & Co. KG
Mattenstr. 1, D-79541 Lörach-Hauingen

Name and address of the manufacturer:
Boschert GmbH & Co. KG
Mattenstr. 1, D-79541 Lörach-Hauingen

Ref. of customer:

Ref. of Test and Certification Body:
612.17 - Dr/Ei

Date of Issue:
02.09.1999

Product designation: Klapplager(Automatiklager)

Type: A 40 / A 50 / A 80

Intended purpose:

Testing based on: „Sicherheitstechnische Anforderungen an Konstruktion und Bau von Druck- und Papierverarbeitungsmaschinen“ prEN 1010:1993
„Sicherheit von Maschinen - Elektrische Ausrüstung von Maschinen; Teil 1: Allgemeine Anforderungen“ EN 60204-1:1997
„Sicherheit von Maschinen - Sicherheitsbezogene Teile von Steuerungen; Teil 1: Allgemeine Gestaltungsleitsätze“ En 954-1:1996

Remarks:

The type tested meets the requirements specified in article 3 para. 1 of the Equipment Safety Act (GSG, §3, Abs. 1). Thus, the type also complies with the provisions laid down in the directive 98/37/EC **(Machinery).**
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 observethe conditions specified overleaf.

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

31.12.2004

Furhter 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 Oktober 1997

Kopie

Postal address:
65173 Wiesbaden

Office:
Rheinstraße 6-8
65185 Wiesbaden

Phone: 0611/131219
Fax: 0611/131155

In any case, the German original shall prevail.

Reverse side of the GS Test Certificate

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 Test and Certification body of Fachausschuss Druck und Papierverarbeitung 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 Test and Certification Body shall withdraw the allocation of the GS-mark from the holder of the certificate if the requirements according to article 3 para. 1 of the Equipment Safety Act (GSG, § 3, Abs. 1) 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 3 para. 4, sentence 1 of the Equipment Safety Act (GSG, § 3, Abs. 4, Satz 1) are met.

The validity of the test certificate (number 99054) is extended until .....

. . . . . .
Date

. . . . . .
Signature

Fachausschuß
Druck und Papierverarbeitung
Prüf- und Zertifizierungsstelle
im BG-PRÜFZERT

Hauptverband der gewerblichen
Berufsgenossenschaften

Translation

GS Test Certificate

03046
No. of certificate

Name and address of the holder of the certificate: (customer)	Boschert GmbH & Co. KG Maschinen- und Apparatebau Mattenstr. 1 D-79541 Lörach
Name and address of the manufacturer:	see above
Name and address of the place of manufacture:	see above

Ref. of customer:	Ref. of Test and Certification Body:	Date of Issue:
(A 02138)	612.17 - Dr/We	26.05.2003

Product designation:	Pneumatic-chuck
Type:	P 40 / P 50
Intended purpose:	

Testing bases on:	prEN 1010-1 Safety of machinery -Safety requirements for the design and construction of printing and paper converting machines, Part 1: common requirements - final draft 2003 prEn 1010-2 Safety of machinery -Safety requirements for the design and construction of printing and paper converting machines, Part 2: printing and varnish machines including pre-press machinery - final draft 2003

The type tested meets the requirements specified in article 3 para. 1 of the Equipment Safety Act (GSG, 3, Abs. 1). Thus, the type also complies with the provisions laid down in the directive 98/37/EC (**Machinery**). 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:

31.05.2008

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 October 1997.

(Klassifizierung 009.200103)

HAUPTVERBAND DER GEWERBLICHEN BERUFSGENOSSENSCHAFTEN FACHAUSSCHUSS DP

.....
Signature (Dipl.-Ing. Schwind)

Postal address:
Postfach
65173 Wiesbaden

Office:
Rheinstraße 6-8
65185 Wiesbaden

Phone: 0611 / 131-219
Fax: 0611 / 131-155

In any case, the German original shall prevail.

Kopie

Reverser side of the GS Test Certificate

GS-mark

standard design

Approved design for a
height of 20 mm or less

[1] no. of certicicate

---

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 Test and Certification body of Fachausschuss Druck und Papierverarbeitung 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 Test and Certification Body shall withdraw the allocation of the GS-mark from the holder of the certificate if the requirements according to article 3 para. 1 of the Equipment Safety Act (GSG, 3, Abs. 1) 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 3 para. 4, sentence 1 of the Equipment Safety Act (GSG, 3, Abs. 4, Satz 1) are met.

The validity of the test certificate (number 03046) is extended until .....

. . . . . .
Date

. . . . . .
Signature

1.00 Table of contents

The Manufacturer

Boschert-Chuck

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

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Boschert Sliding-Chuck

Boschert A series pneumatic Chuck

Mattenstraße 1
79541 Lörrach-Hauingen
infokl@boschert.de
www.boschert.de
Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

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Boschert P series pneumatic Chuck

General information

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

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Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

Table of contents

Brake

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

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Clutch

Mattenstraße 1
79541 Lörrach-Hauingen
infokl@boschert.de
www.boschert.de
Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

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Accessories

Examples for special solutions

Calculations, order form + price list

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved. version 01/05

Boschert

50 Years of partnership with our customers

Customer service, reliability, quality and flexibility are the foundation of our company for more than 50 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.

With the assurance that you have found the best source, you can trust to us the solution of 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 number one in all the world!

We are always available for you.

Boschert
simply better

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

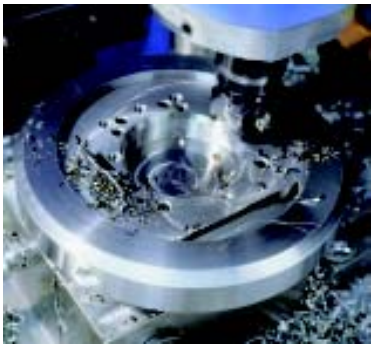
The Manufacturer

fast, reliable, professional,
Customer Service

New orders are scheduled with the Production Department and a shipment date is established.

Our new computer aided design software helps 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.

Mattenstraße 1
79541 Lörrach-Hauingen

infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

The Manufacturer

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 customers orders.

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

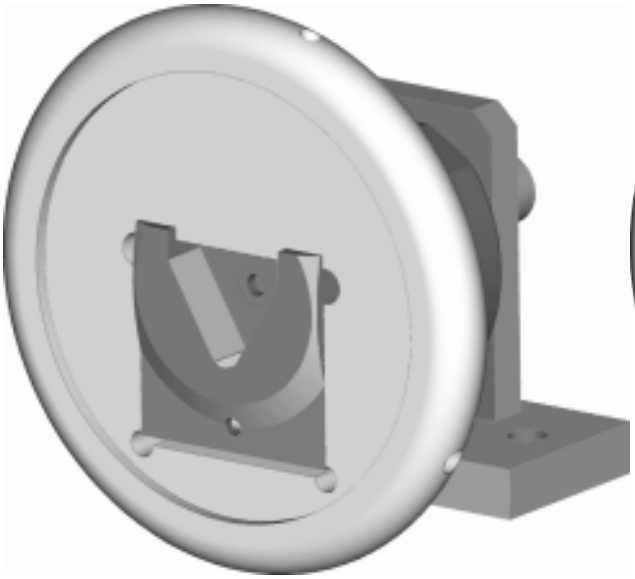
Mattenstraße 1
79541 Lörrach-Hauingen

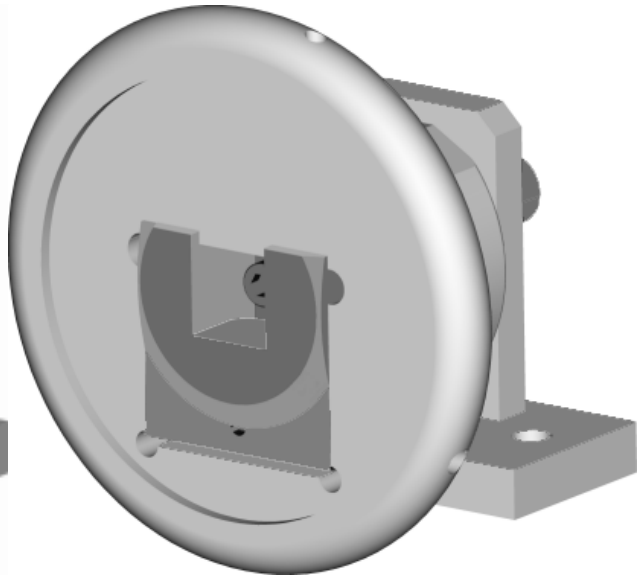
infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

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





Beam weight max.: max. 150 kg **(max. 330 lbs)**
Square bar: **14 mm - 20 mm (0.5512“ - 0.7874“)**
Torque: **40 Nm (29 ft/lb)**

Checkbox

Options						Info
Journal shaft type:	☐	square bar	☐	triangle		2.03
Model:	☐	pillow block	☐	flange chuck	☐ 90° foot	2.01/2.02
	☐	opening angle ±30°				5.43
Shaft end:	☐	without	☐	standard shaft	☐ special	2.03
Add. parts:	☐	without	☐	brake	☐ clutch RU	6.00/7.00
Speed:	☐	<50 rpm	☐	50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

Mattenstraße 1
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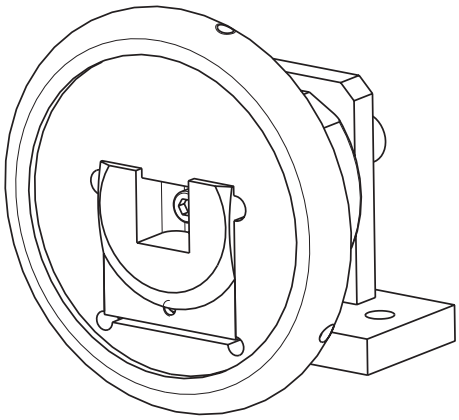
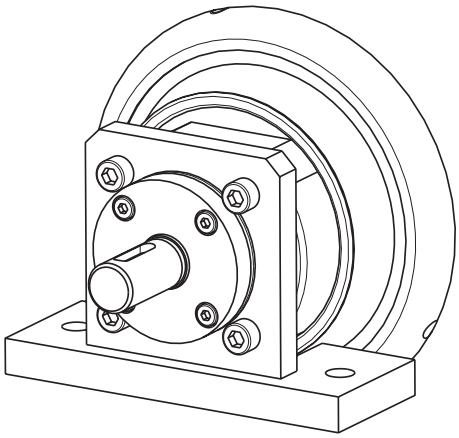
infokl@boschert.de
www.boschert.de
Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

(a) Changes reserved

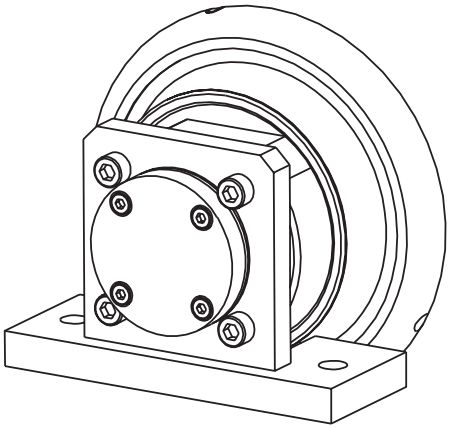
Boschert-Chuck
foot mounted chuck Mini

Boschert Mini-Chuck type C

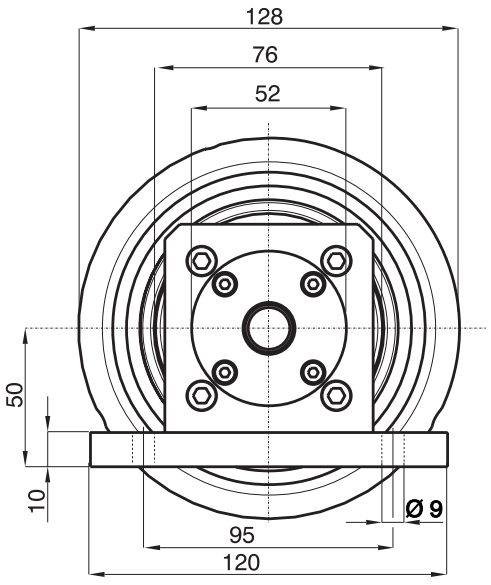


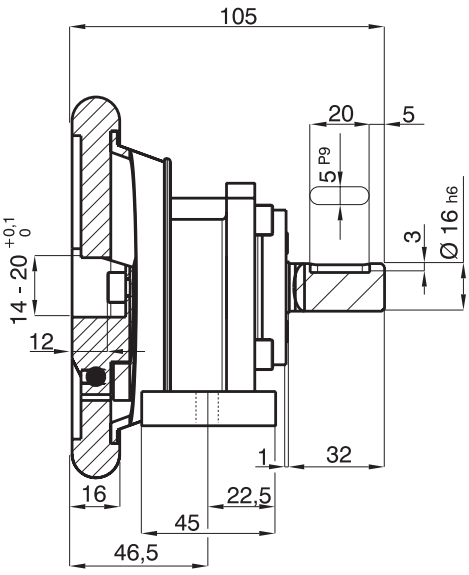


STW Mini
chuck with shaft end



STO Mini
chuck without shaft end





2.01

Mattenstraße 1
79541 Lörrach-Hauingen

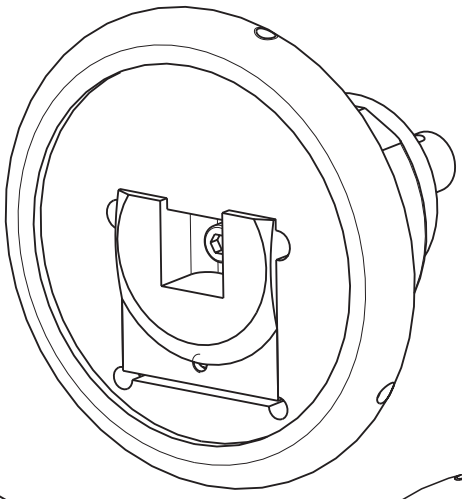
infokl@boschert.de
www.boschert.de

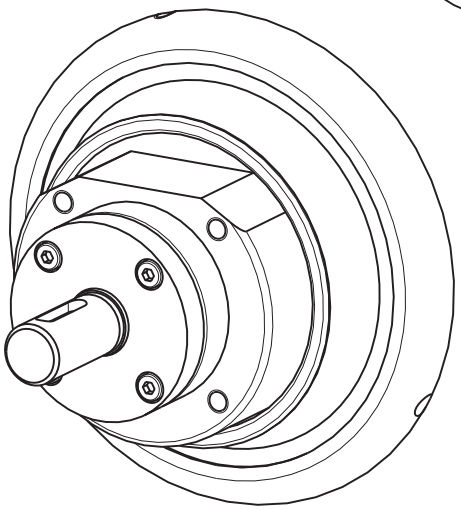
Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

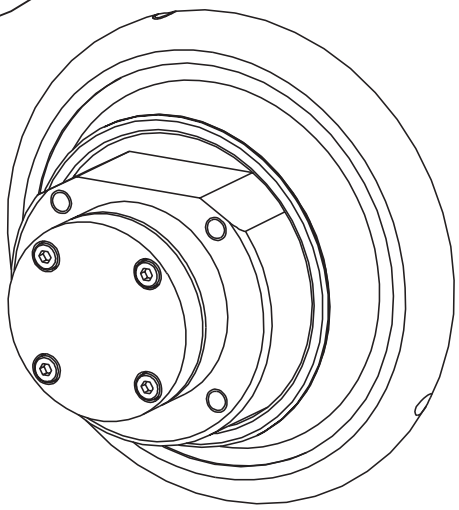
Boschert-Chuck
flange mounted chuck Mini

Boschert Mini-Chuck type C

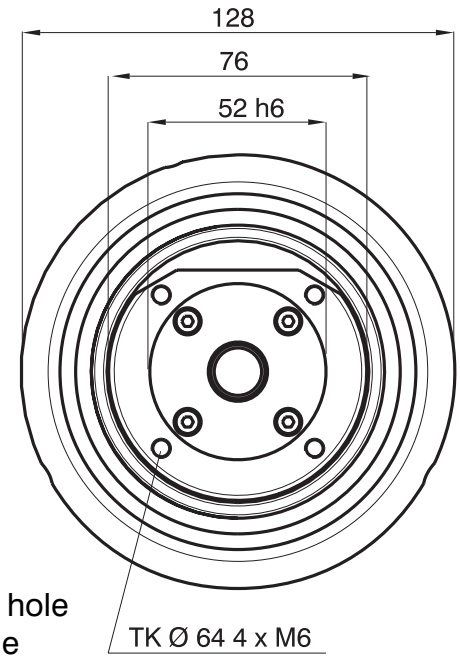




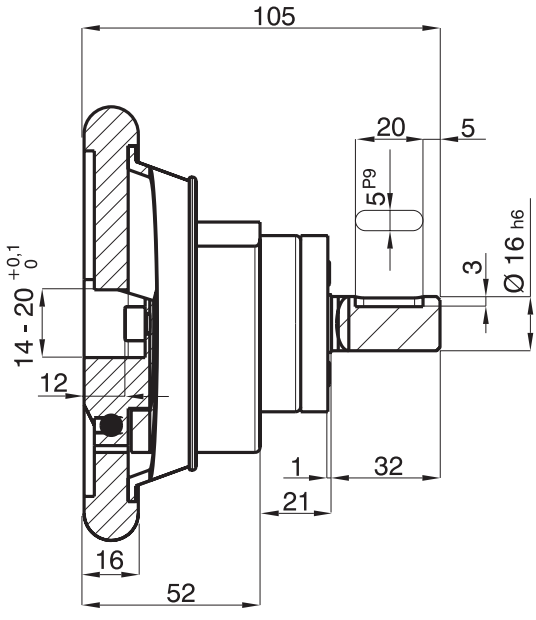
FLW Mini
chuck with shaft end



FLO Mini
chuck without shaft end



TK = bolt hole circle



Mattenstraße 1
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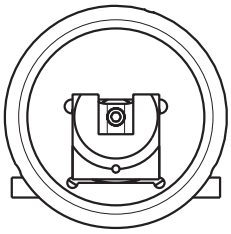
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

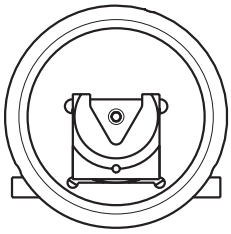
Changes reserved

Boschert Chuck
Options Mini

Journal shaft type



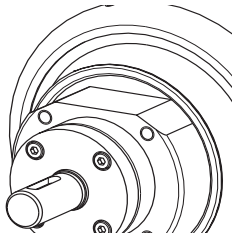
square bar



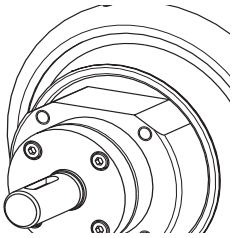
triangle

Info 5.20 Info 5.21

Shaft ends



ESB - Mini



RU - Mini

Info 5.50

special shaft ends on customers request

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

Mattenstraße 1
79541 Lörrach-Hauingen

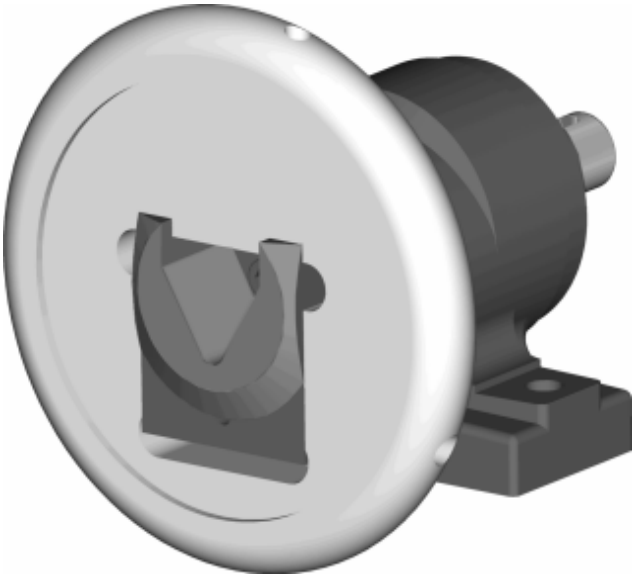
infokl@boschert.de
www.boschert.de

Tel.: 07621 / 95 93 24 – 26
Fax: 07621 / 55 184

Changes reserved

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



Beam weight max.: **max. 400 kg (max. 880 lbs)**
Square bar: **19 mm - 25 mm (0.748“ - 0.9843)**
Torque: **120 Nm (87 ft/lb)**

Checkbox

Options						Info
Journal shaft type:	☐	square bar	☐	triangle		2.13
Model:	☐	pillow block	☐	flange chuck		
	☐	opening angle ±30°				2.11/2.12
Shaft end:	☐	without	☐	standard shaft	☐ special	2.13
Add. parts:	☐	without	☐	brake	☐ clutch RU	6.00/7.00
Speed:	☐	<50 rpm	☐	50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

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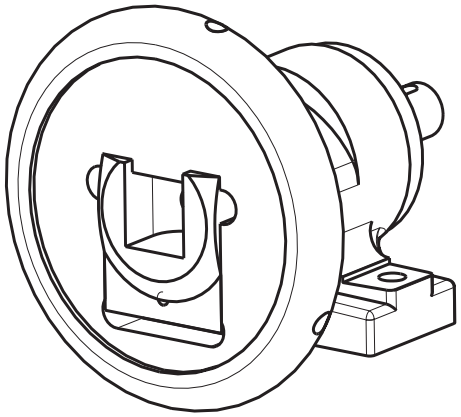
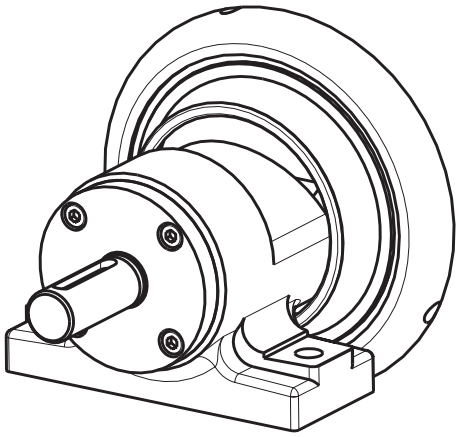
(a) Changes reserved

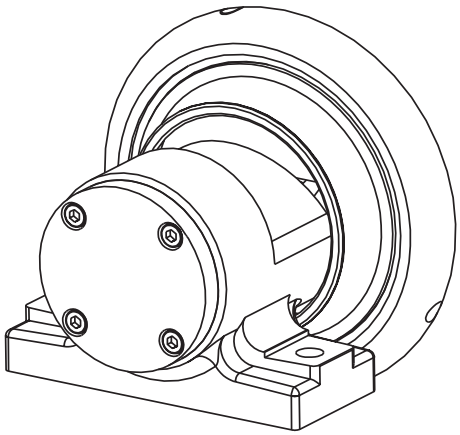
Boschert-Chuck
foot mounted chuck 19-25

Boschert-Chuck 19-25 type C

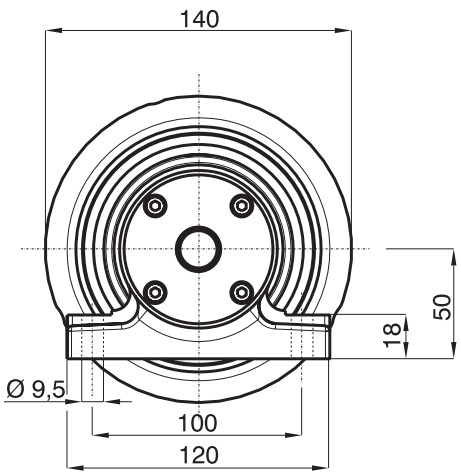


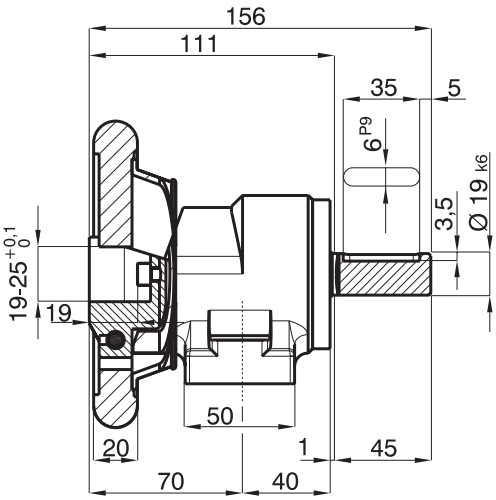


STW 19-25
chuck with shaft end



STO 19-25
chuck without shaft end





2.11

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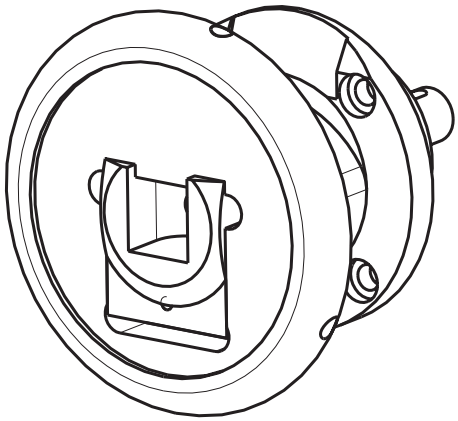
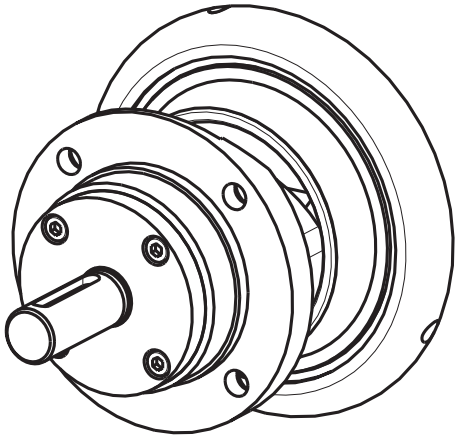
Changes reserved

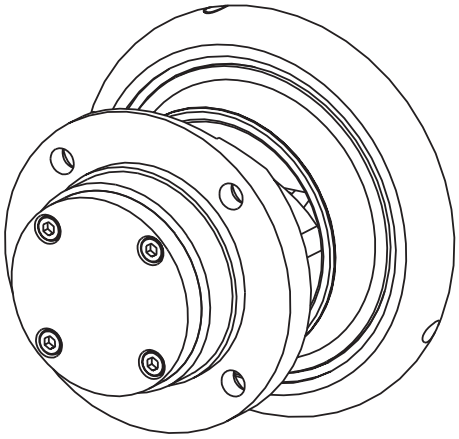
Boschert-Chuck
flange mounted chuck 19-25

Boschert-Chuck 19-25

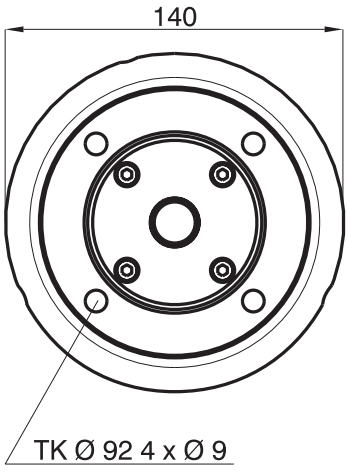


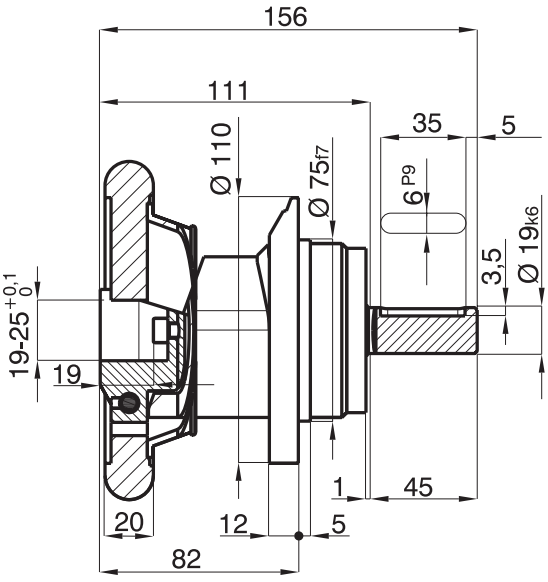


FLW 19-25
chuck with shaft end



FLO 19-25
chuck without shaft end





TK = bolt hole circle

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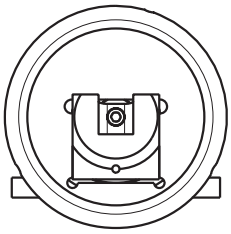
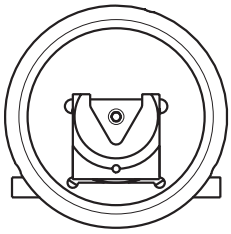
Changes reserved

Boschert-Chuck Options19-25

Journal shaft type



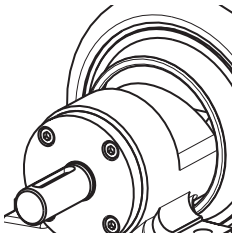
square bar



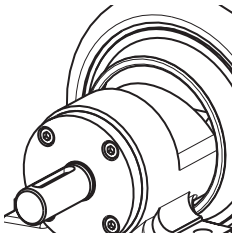
triangle

Info 5.20 Info 5.21

Shaft ends



ESB



RU

Info 5.50

special shaft ends on customer request

max. shaft-dia.: Ø 20 mm
(special shaft without stop)

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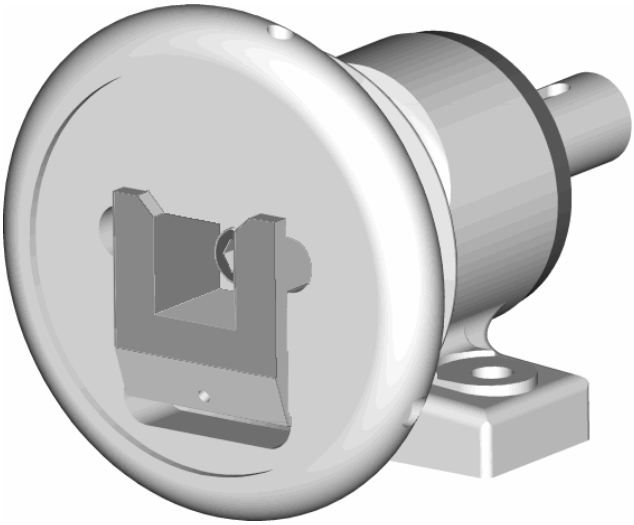
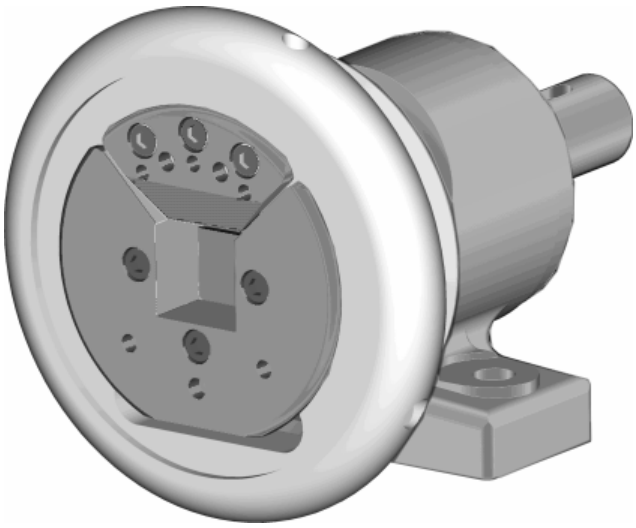
Changes reserved

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





Beam weight max.: max. 800 kg **(max. 1760 lbs)**
Square bar: ☐ **22 mm - 30 mm (0.8661“ - 1.1811“)**
Torque: **180 Nm (130 ft/lb)**

Checkbox

Options						Info
VT-insert:	☐	without	☐ VT1	☐ VT2		
	☐	VT6	☐ VT7	☐ special		
Hardness:	☐	52 HRC	☐ 58 HRC	☐ special HRC		2.23
Model:	☐	pillow block	☐ flange chuck			
	☐	90° foot	☐ opening angle ±30°			5.40/5.43
Shaft end:	☐	without	☐ standard shaft	☐ special		2.23
Handwheel lock:	☐	without	☐ lock type I			
			☐ left	☐ right		2.23
	(We recommend handwheel locks on applications in turret winders)					
Add. parts:	☐	without	☐ clutch	☐ drive		7.00
	☐	brake				6.00
Speed:	☐	<50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm		

Inquiry- and order form see chapter 9.00

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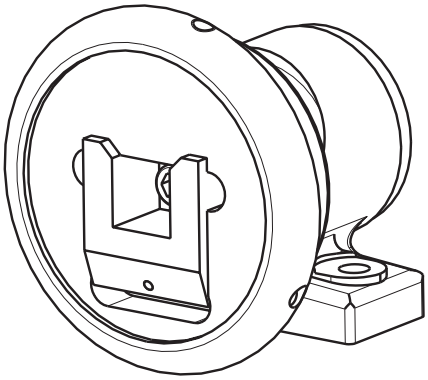
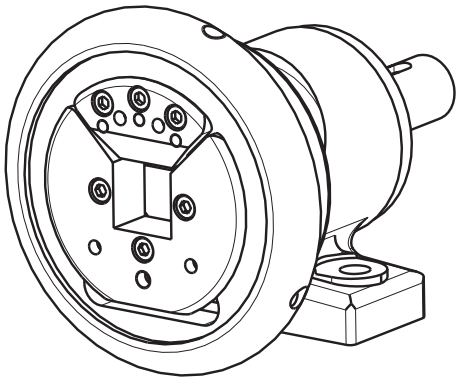
(a) Changes reserved

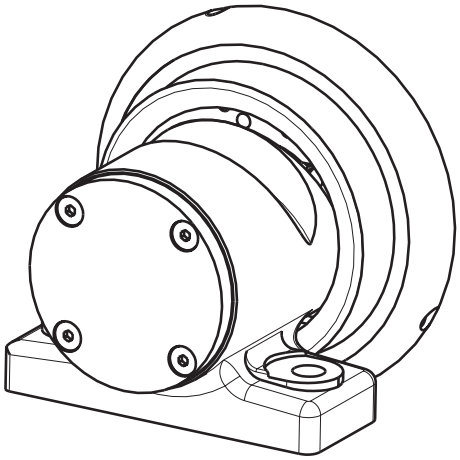
Boschert-Chuck
foot mounted chuck 22-30

Boschert-Chuck 22-30 type C

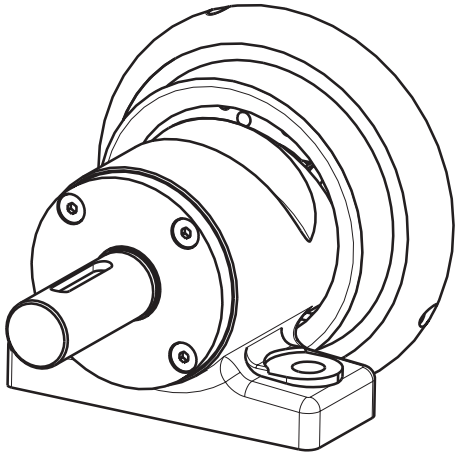


Boschert-Chuck 22-30 type VT

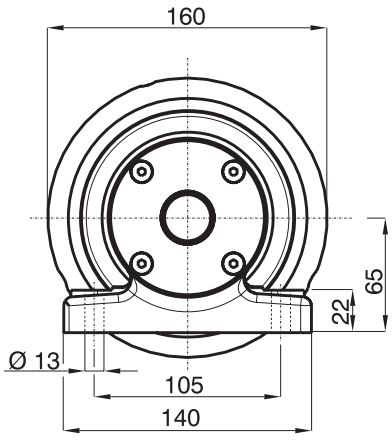


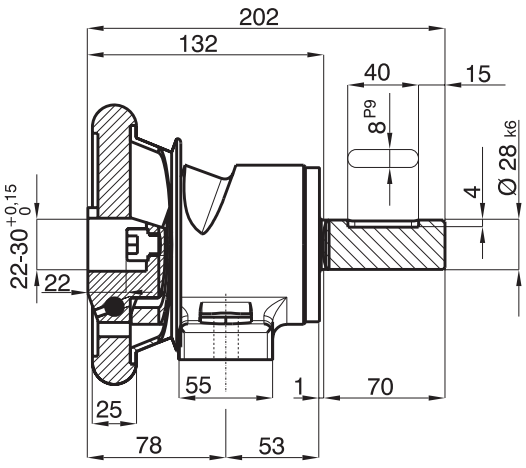


STO 22-30
chuck without shaft end



STW 22-30
chuck with shaft end





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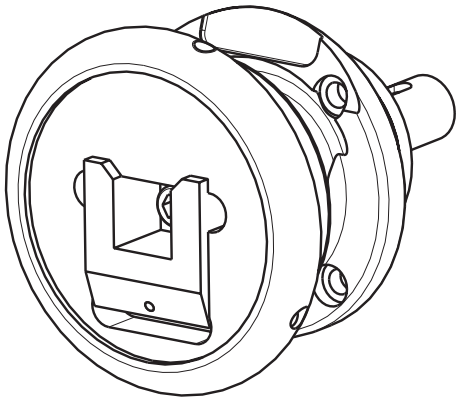
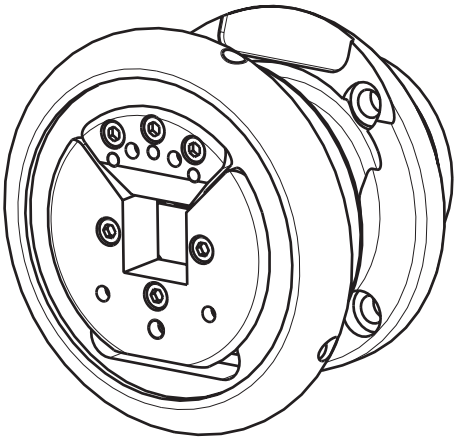
Changes reserved

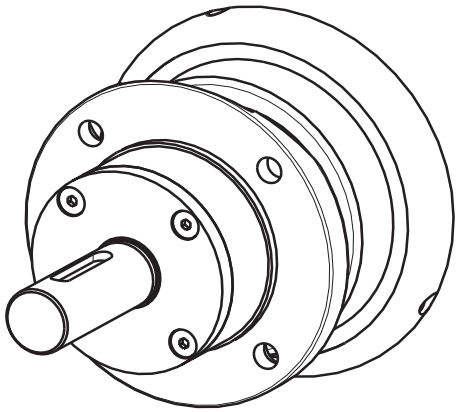
Boschert-Chuck
flange mounted chuck 22-30

Boschert-Chuck 22-30 type C

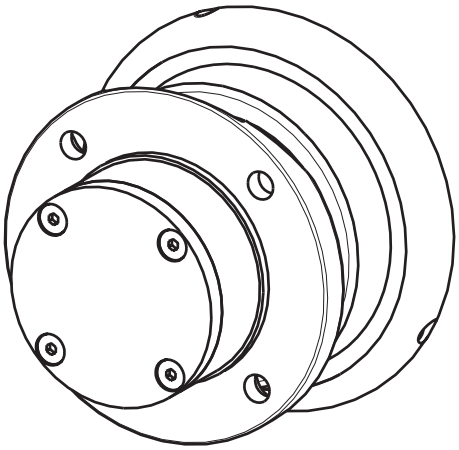


Boschert-Chuck 22-30 type VT

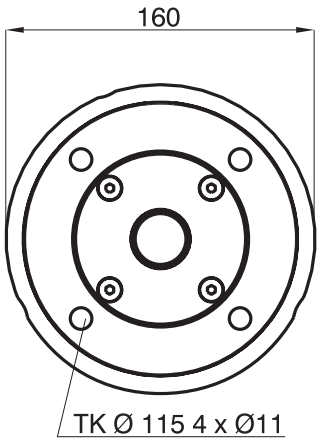




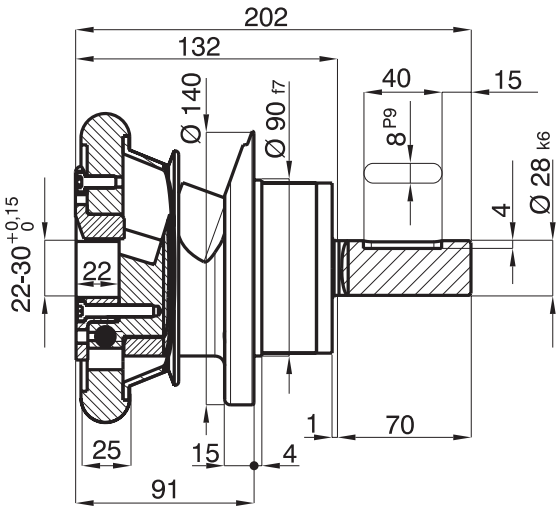
FLW 22-30
chuck with shaft end



FLO 22-30
chuck without shaft end



TK = bolt hole circle



We recommend handwheel locks on applications in turret winders.

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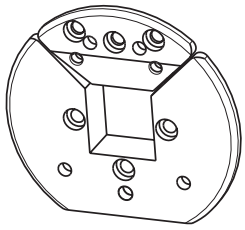
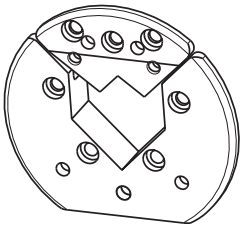
Changes reserved

Boschert-Chuck
Options 22-30

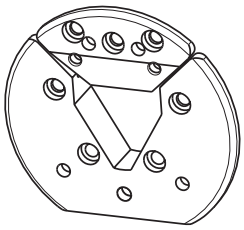
VT-insert



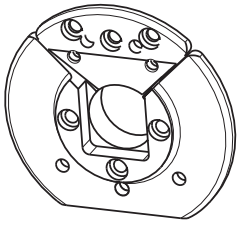
VT 1



VT 2



VT 6



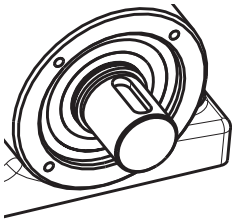
VT 7

For VT2 and VT6 a radial driver is necessary. See information page 5.23

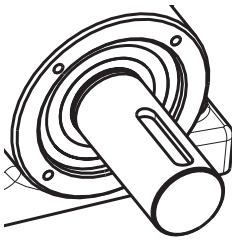
Special VT on customers request

Info 5.30

Shaft ends



ESB



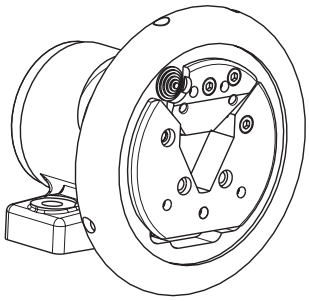
RU

Special shaft ends on customer request

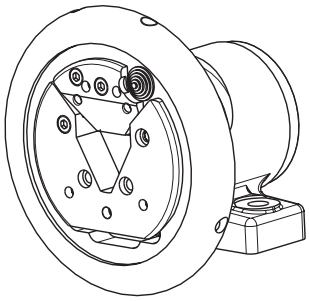
Info 5.50

max. shaft-dia.: Ø 30 mm
(special shaft without stop)

Handwheel lock



lock type I left



lock type I right

Info 5.44

Info 5.45

We recommend handwheel locks on applications in turret winders.

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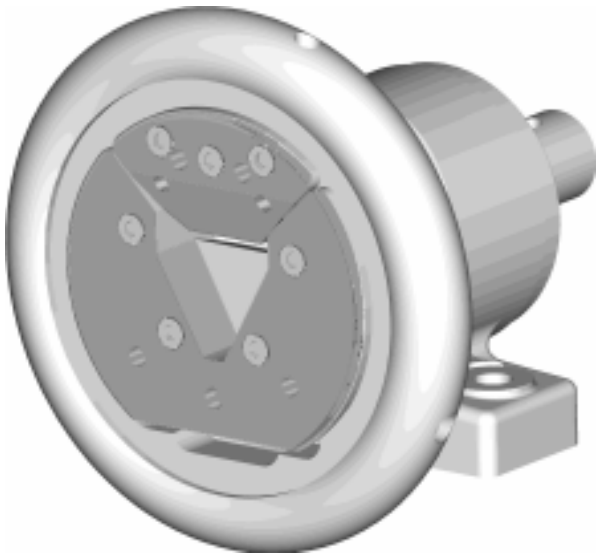
Changes reserved (a)

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



Beam weight max.: **max. 1600 kg (max. 3530 lbs)**
Square bar: **30 mm - 40 mm (1.1811“ - 1.5748“)**
Torque: **350 Nm (250 ft/lb)**

Checkbox !

Options						Info
VT-insert:	☐	without	☐ VT1	☐ VT2		
	☐	VT6	☐ VT7	☐ special		
Hardness:	☐	52 HRC	☐ 58 HRC	☐ special HRC		2.33
Model:	☐	pillow block	☐ flange chuck			
	☐	90° foot	☐ extented chuck			5.40/5.41
	☐	opening angle ±30°				5.43
Journal shaft type:	☐	without	☐ standard shaft	☐ special		2.33
Handwheel lock:	☐	without	☐ lock type I	☐ lock type II		
			☐ left	☐ right		2.33
	(We recommend handwheel locks on applications in turret winders)					
Add. parts:	☐	without	☐ clutch	☐ drive		7.00
	☐	brake				6.00
Speed:	☐	<50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm		

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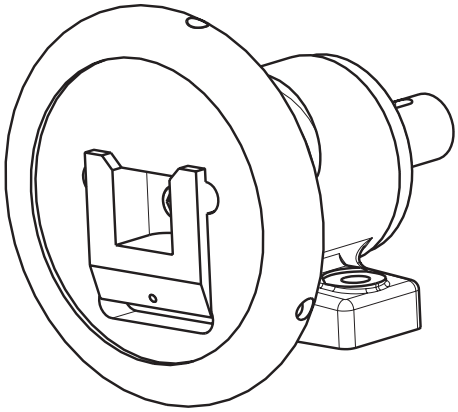
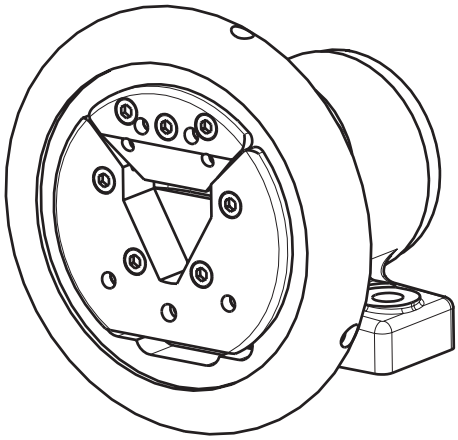
(a) Changes reserved

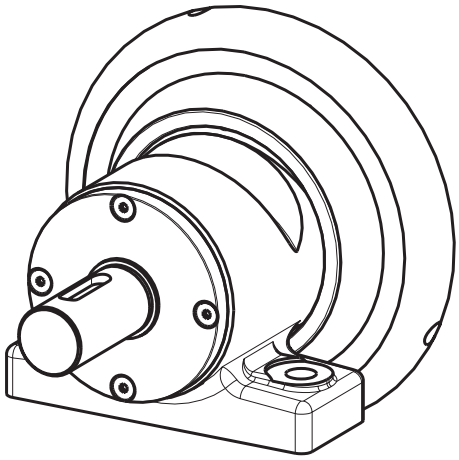
Boschert-Chuck
foot mounted chuck 30-40

Boschert-Chuck 30-40 type C

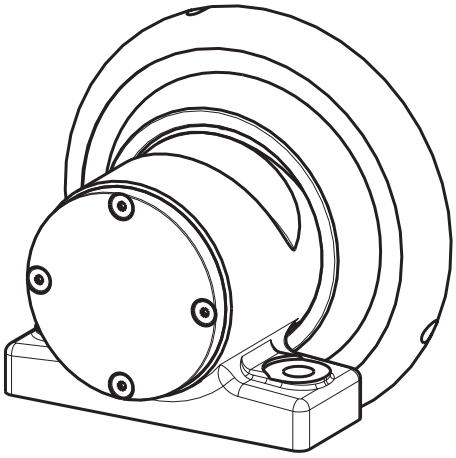


Boschert-Chuck 30-40 type VT

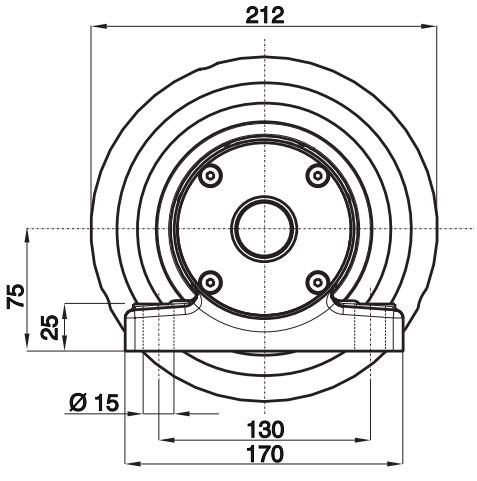


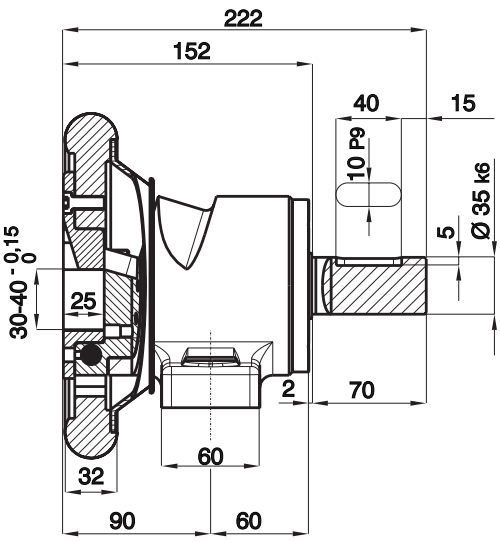


STW 30-40
chuck with shaft end



STO 30-40
chuck without shaft end





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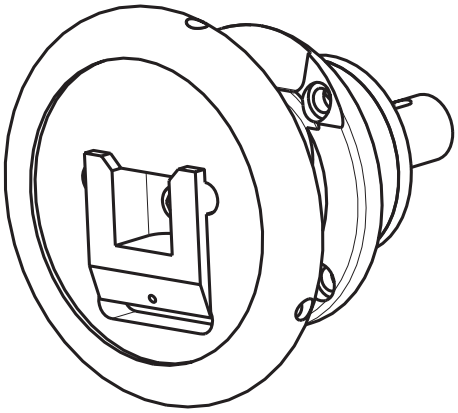
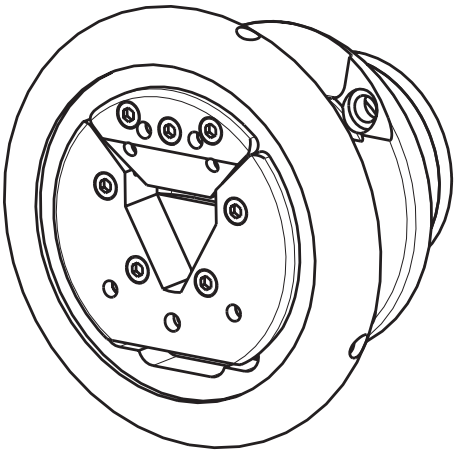
Changes reserved

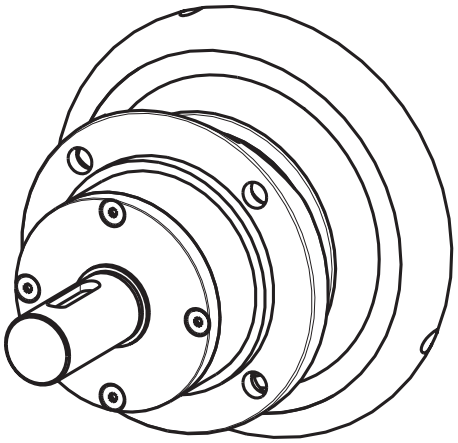
Boschert-Chuck
flange mounted chuck 30-40

Boschert-Chuck 30-40 type C

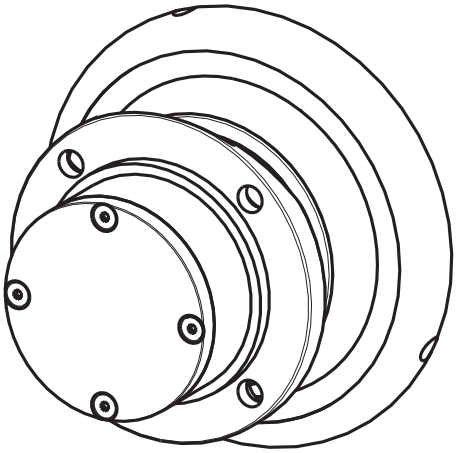


Boschert-Chuck 30-40 type VT

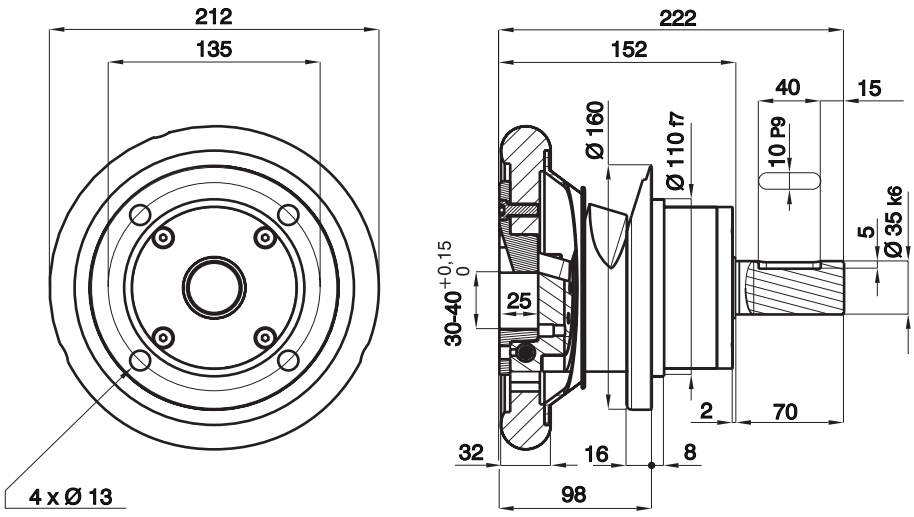




FLW 30-40
chuck with shaft end



FLO 30-40
chuck without shaft end



We recommend handwheel locks on applications in turret winders.

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

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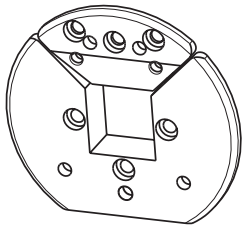
Fax: 07621 / 55 184

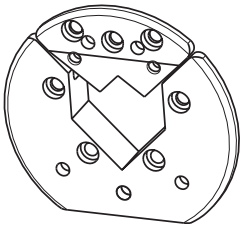
Changes reserved

Boschert-Chuck
Options 30-40

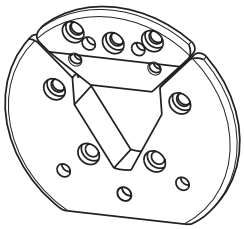
VT-insert



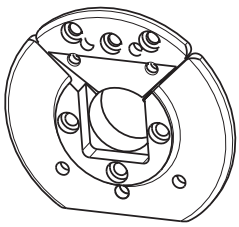
VT 1



VT 2



VT 6



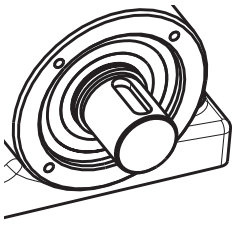
VT 7

For VT2 and VT 6 a radial driver is necessary. See information page 5.23

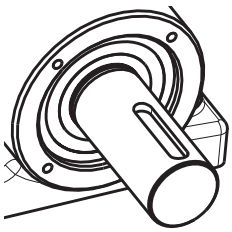
Special VT on customers request

Info 5.30

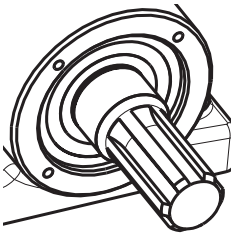
Shaft ends



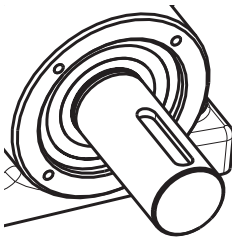
ESB



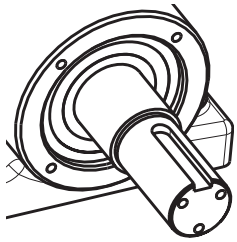
ESB i



DSB



RU



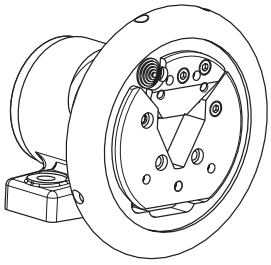
HRU

Special shaft ends on customer request

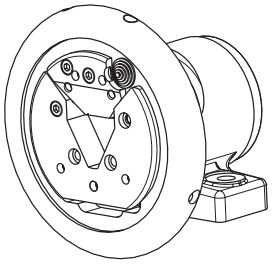
Info 5.50

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

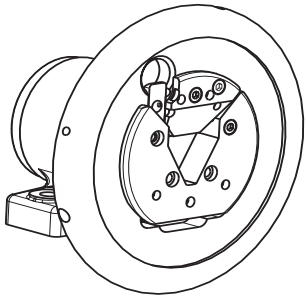
Handwheel lock



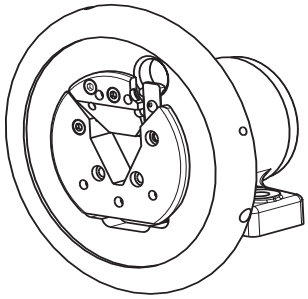
HRV I lleft



HRV I right



HRV II left



HRV II right

We recommend handwheel locks
on applications in turret winders.

Info 5.44 Info 5.45

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

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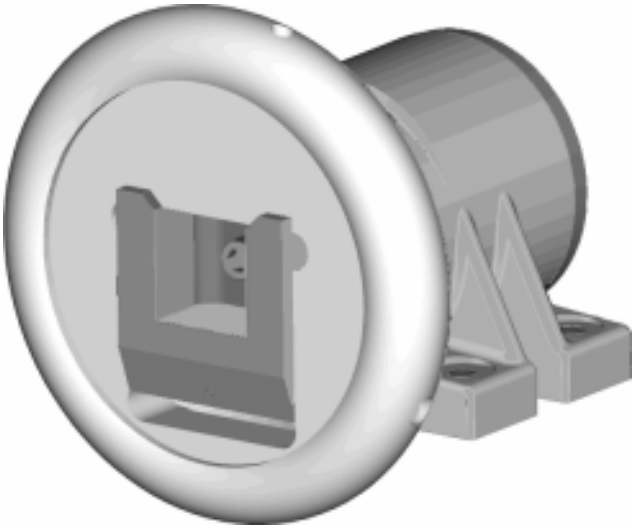
Changes reserved

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



Beam weight max.: max. 2800 kg **(max. 6170 lbs)**
Square bar: **40 mm - 50 mm (1.5748“ - 1.9685)**
Torque: **1100 Nm (800 ft/lb)**

Checkbox !

Options						Info
VT-insert:	☐	without	☐ VT1	☐	VT2	
	☐	VT6	☐ VT7	☐	special	
Hardness:	☐	52 HRC	☐ 58 HRC	☐	special HRC	2.43
Model:	☐	pillow block	☐ flange chuck			
	☐	90° foot	☐ extented chuck			5.40/5.42
	☐	opening angle ±30°				5.43
Journal shaft type:	☐	without	☐ standard shaft	☐	special	2.43
Handwheel lock:	☐	without	☐ lock type II			
			☐ left	☐	right	2.43
	(We recommend handwheel locks on applications in turret winders)					
Add. parts:	☐	without	☐ clutch	☐	drive	7.00
	☐	brake				6.00
Speed:	☐	<50 rpm	☐ 50 – 1000 rpm	☐	>1000 rpm	

Inquiry- and order form see chapter 9.00

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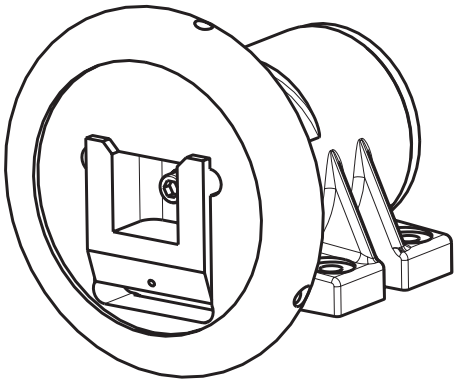
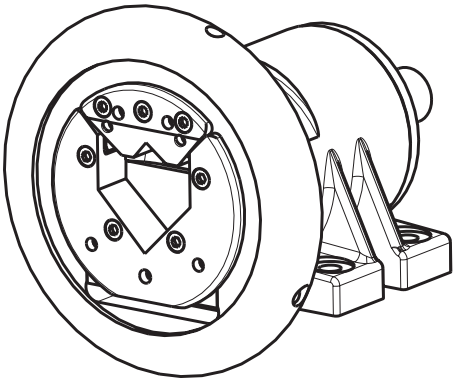
(a) Changes reserved

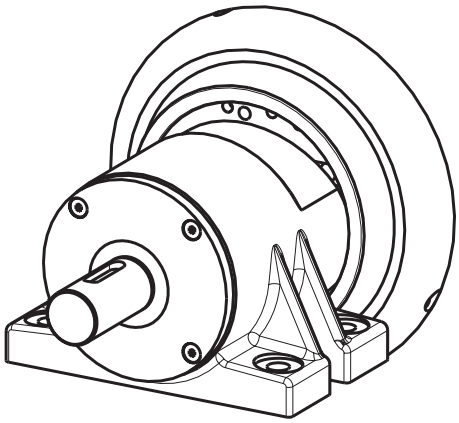
Boschert-Chuck
foot mounted chuck 40-50

Boschert-Chuck 40-50 type C

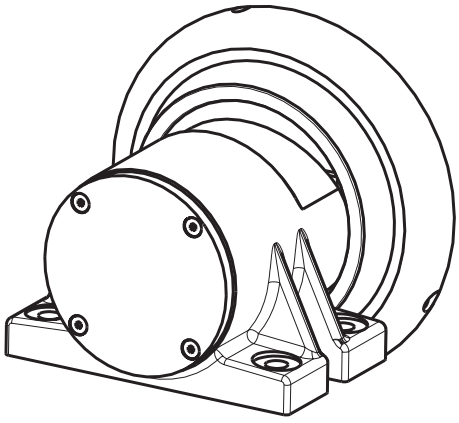


Boschert-Chuck 40-50 type VT

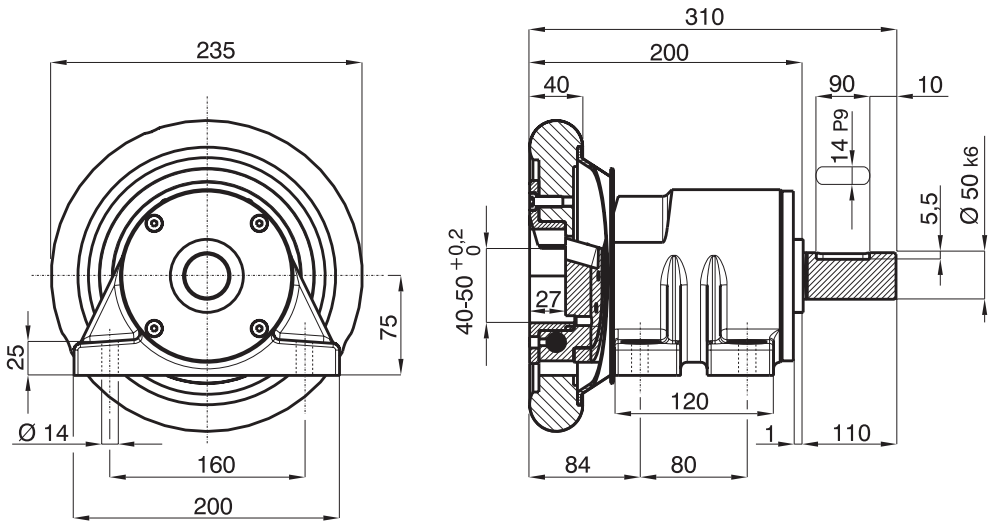




STW 40-50
chuck with shaft end



STO 40-50
chuck without shaft end



2.41

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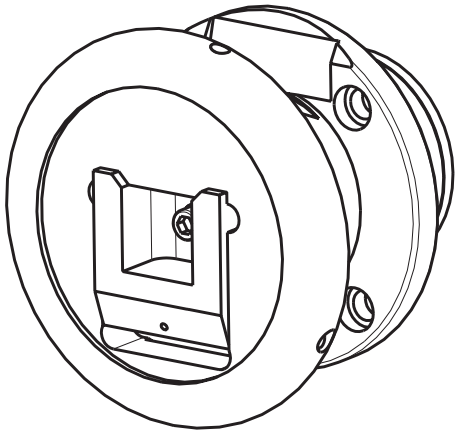
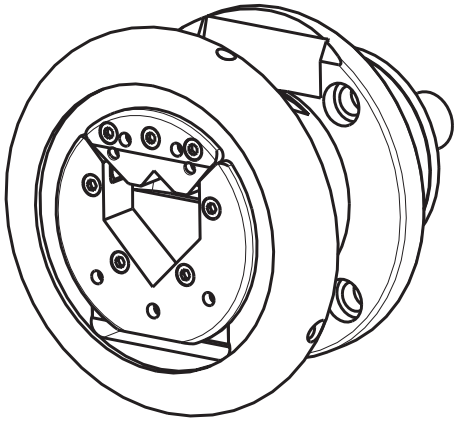
Changes reserved

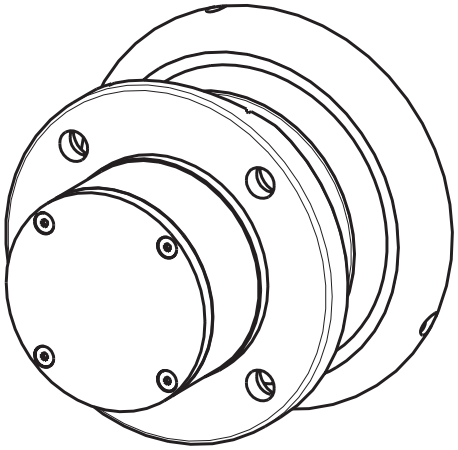
Boschert-Chuck
flange mounted chuck 40-50

Boschert-Chuck 40-50 type C

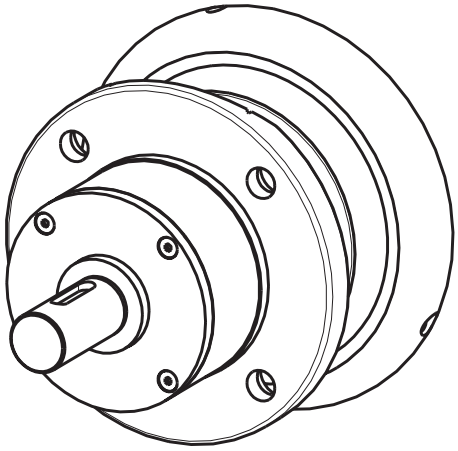


Boschert-Chuck 40-50 type VT

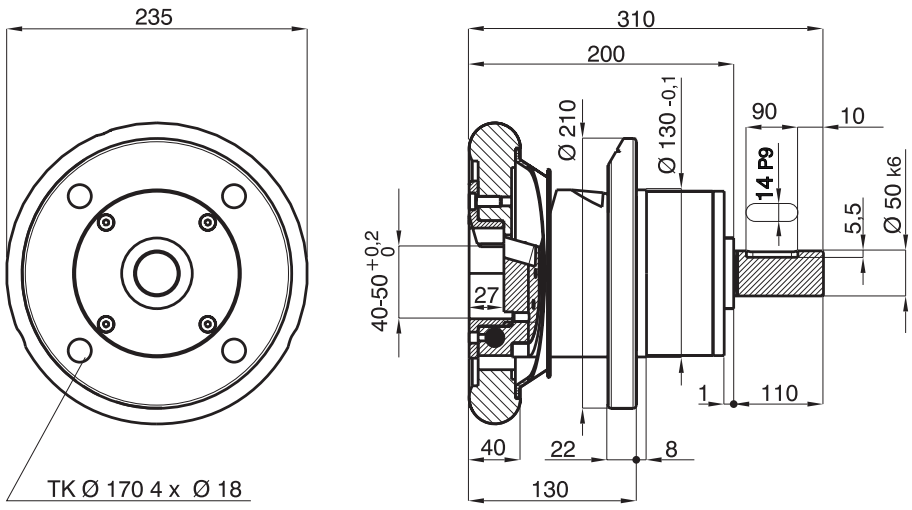




FLO 40-50
chuck without shaft end



FLW 40-50
chuck with shaft end



TK = bolt hole circle

We recommend handwheel locks on applications in turret winders.

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

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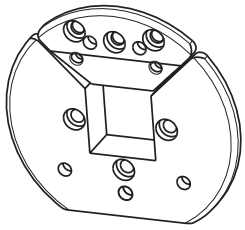
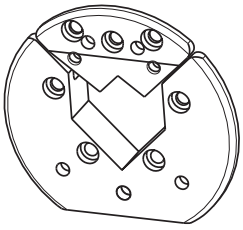
Changes reserved

Boschert-Chuck
Options 40-50

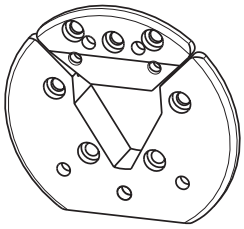
VT-insert



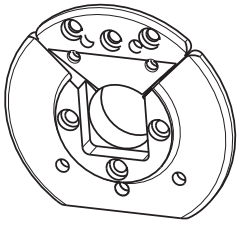
VT 1



VT 2



VT 6



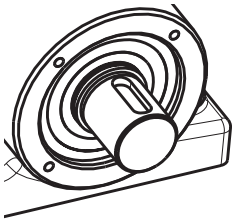
VT 7

For VT2 and VT 6 a radial driver is necessary. See information page 5.23

Special VT on customers request

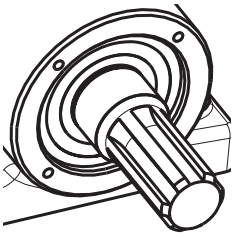
Info 5.30

Shaft ends

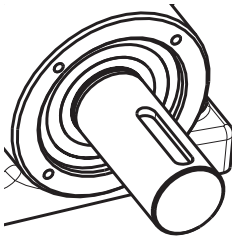


ESB

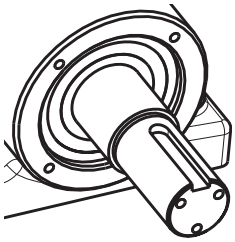
ESB i



DSB



RU



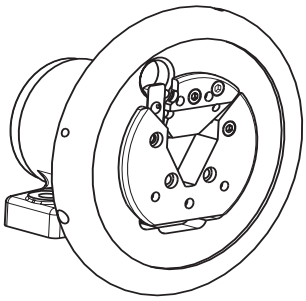
HRU

Special shaft ends on customer request

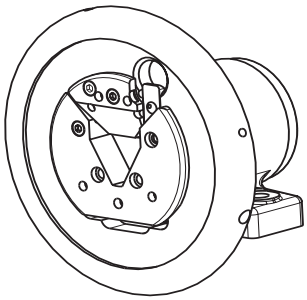
Info 5.50

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

Handwheel lock



HRV II left



HRV II right

Info 5.44

Info 5.45

We recommend handwheel locks on applications in turret winders.

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

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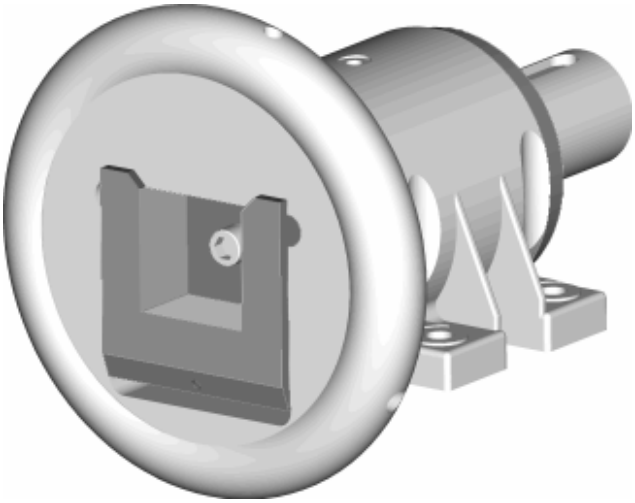
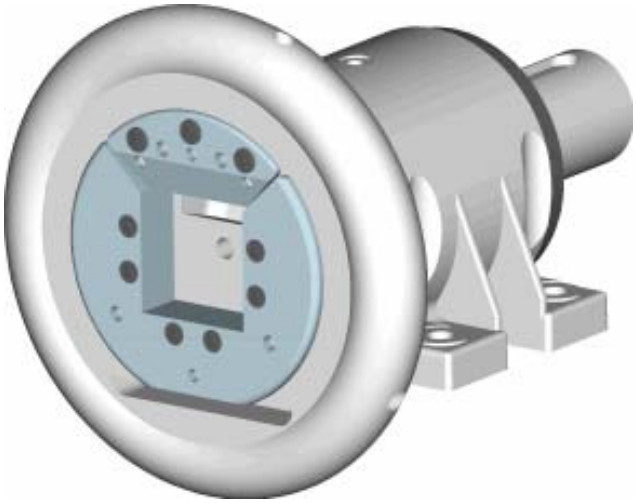
Changes reserved

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





Beamweight max.: max. 7000 kg **(max. 15430 lbs)**
Square bar: **50 mm - 80 mm (1.9685“ - 3.1496“)**
Torque: **2350 Nm (1700 ft/lb)**

Checkbox

Options						Info
VT-insert:	☐	without	☐ VT1	☐	VT2	
	☐	VT6	☐ VT7	☐	special	
Hardness:	☐	52 HRC	☐ 58 HRC	☐	special HRC	2.53
Model:	☐	pillow block	☐ flange chuck			
	☐	opening angle ±30°				5.43
Journal shaft ends:	☐	without	☐ standard shaft	☐	special	2.53
Handwheel lock:	☐	without	☐ lock type II			
			☐ left	☐	right	2.53
	(We recommend handwheel locks on applications in turret winders)					
Add. parts:	☐	without	☐ clutch	☐	drive	7.00
	☐	brake				6.00
Speed:	☐	<50 rpm	☐ 50 – 1000 rpm	☐	>1000 rpm	

Inquiry- and order form see chapter 9.00

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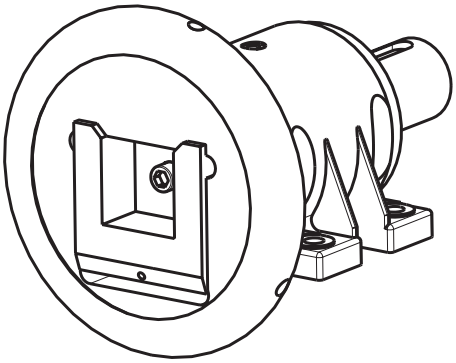
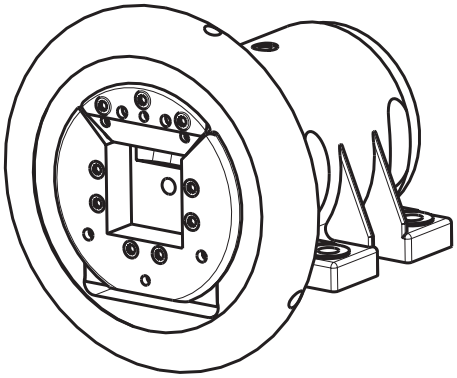
(a) Changes reserved

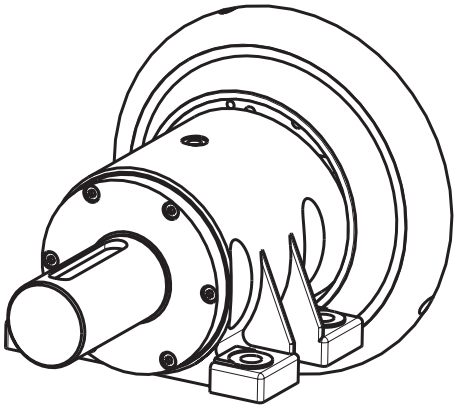
Boschert-Chuck
foot mounted chuck 50-80

Boschert-Chuck 50-80 type C

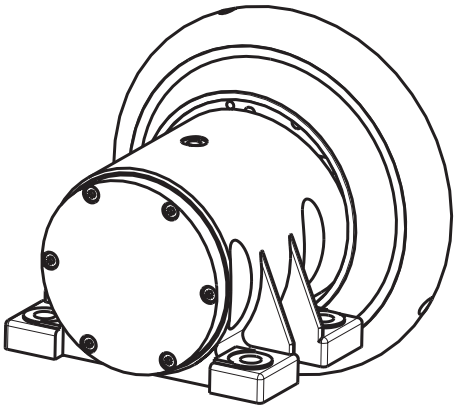


Boschert-Chuck 50-80 type VT

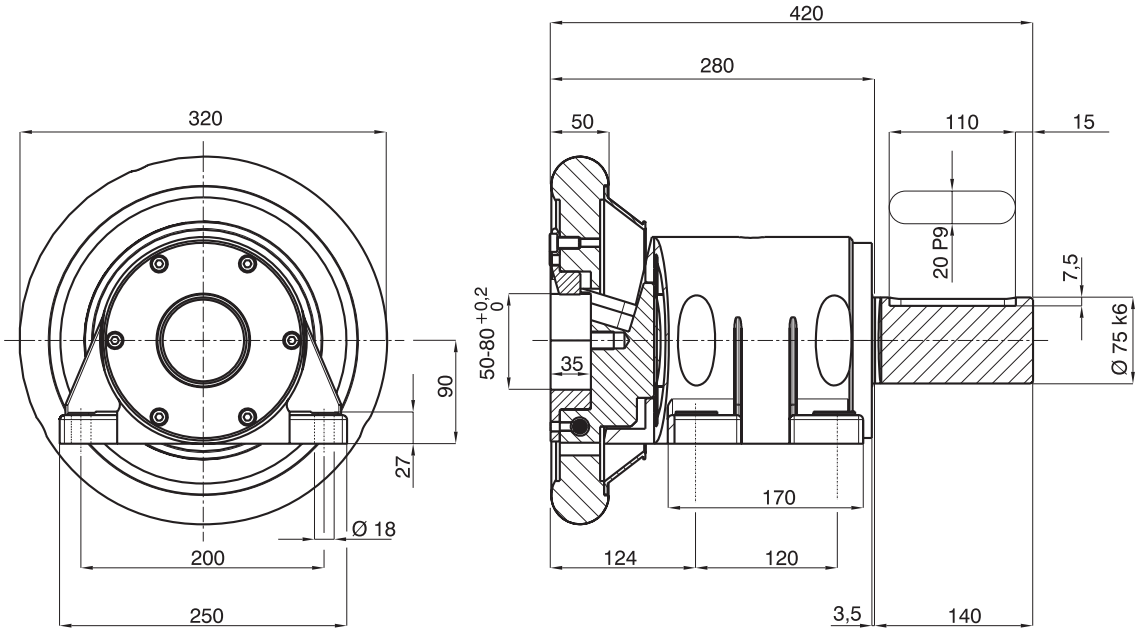




STW 50-80
chuck with shaft end



STO 50-80
chuck without shaft end



2.51

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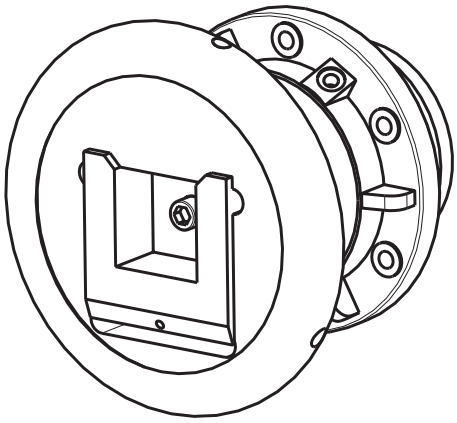
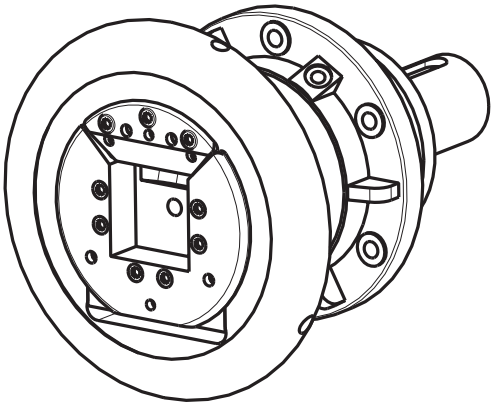
Changes reserved

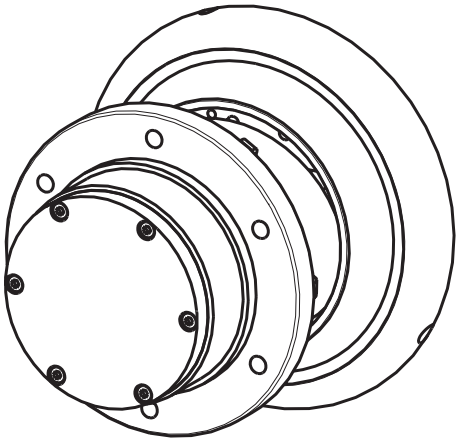
Boschert-Chuck
flange mounted chuck 50-80

Boschert-Chuck 50-80 type C

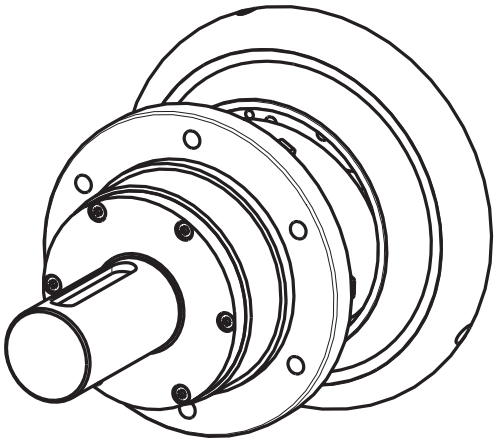


Boschert-Chuck 50-80 type VT

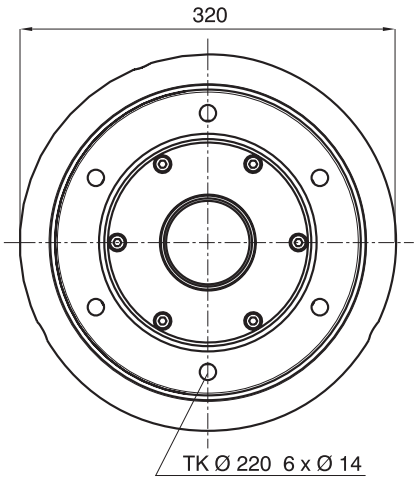




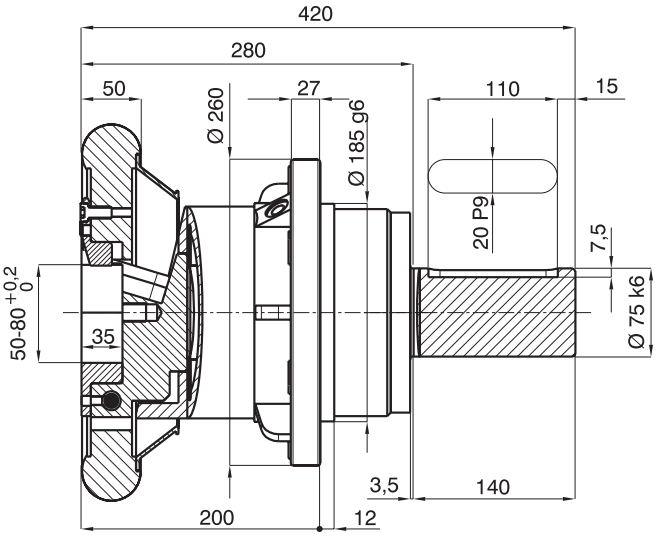
FLO 50-80
chuck without shaft end



FLW 50-80
chuck with shaft end



TK = bolt hole circle



We recommend handwheel locks on applications in turret winders.

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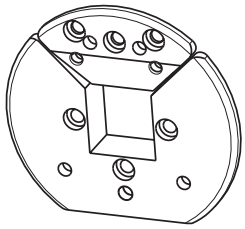
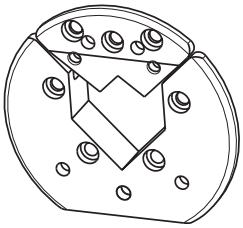
Changes reserved

Boschert-Chuck
Options 50-80

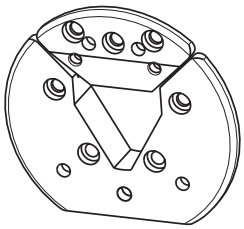
VT-insert



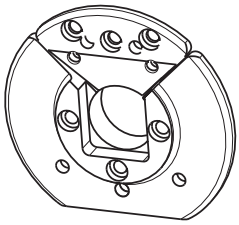
VT 1



VT 2



VT 6



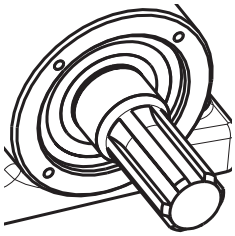
VT 7

For VT2 and VT 6 a radial driver necessary. See information page 5.23

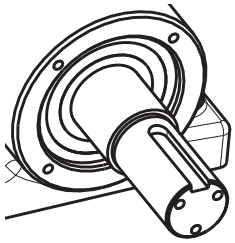
Info 5.30

Special VT on customers request

Shaft ends



DSB



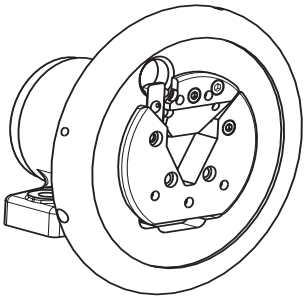
HRU

Info 5.50

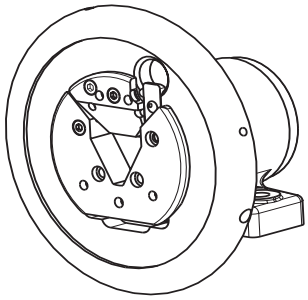
Special shaft ends on customer request

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

Handwheel lock



HRV II left



HRV II right

Info 5.44

Info 5.45

We recommend handwheel locks on applications in turret winders.

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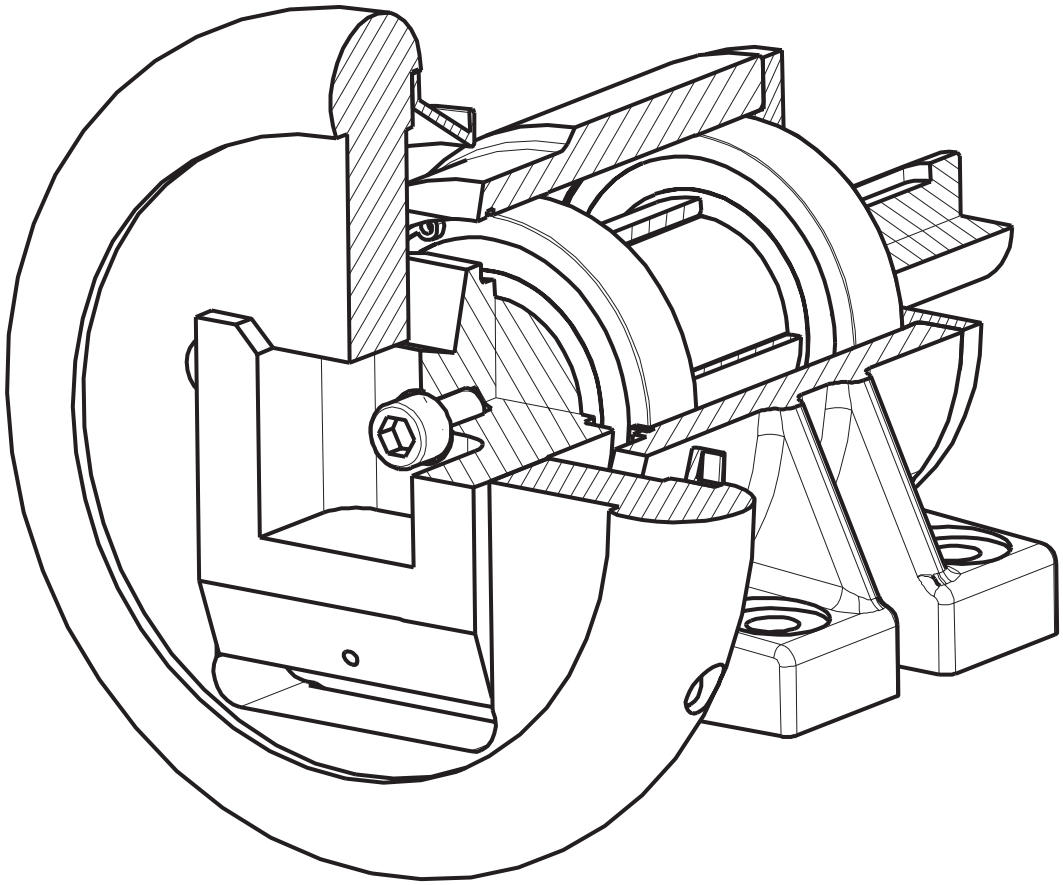
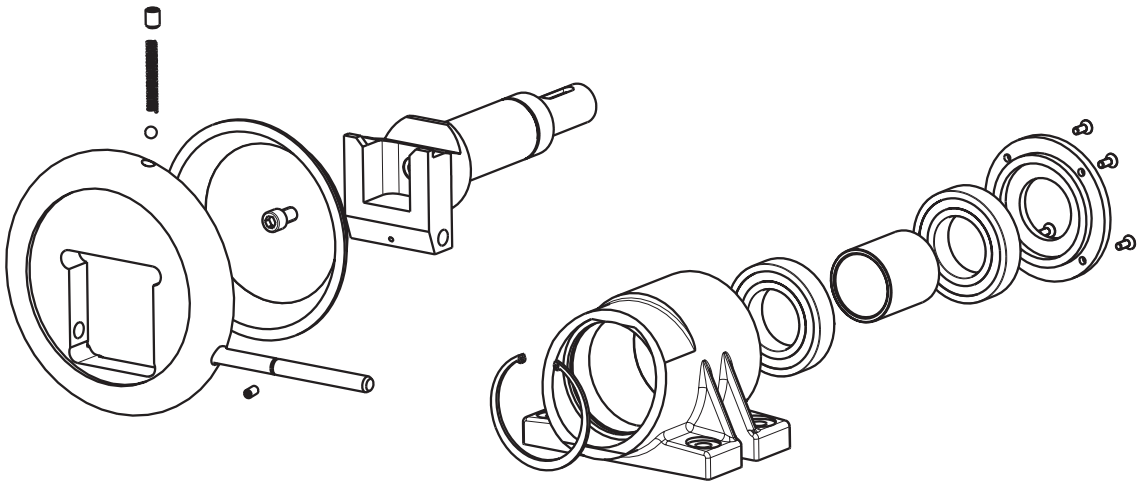
Changes reserved

Construction
Boschert-Chuck type C





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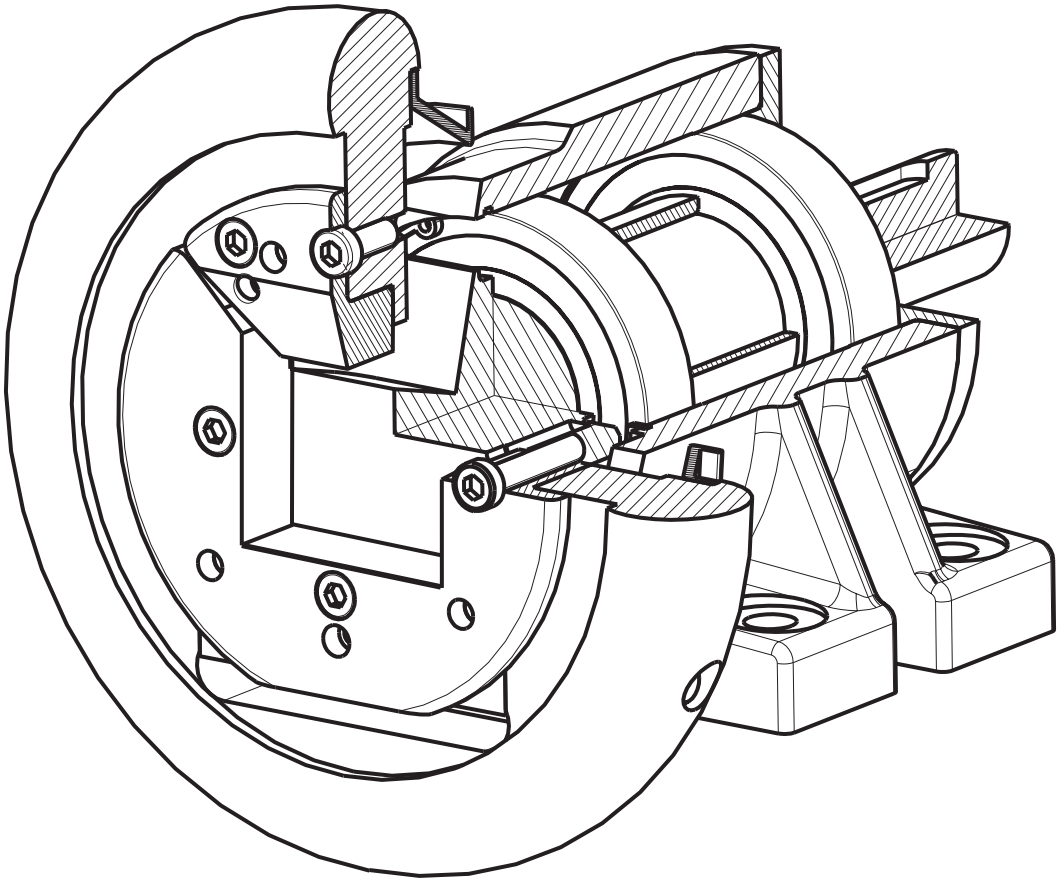
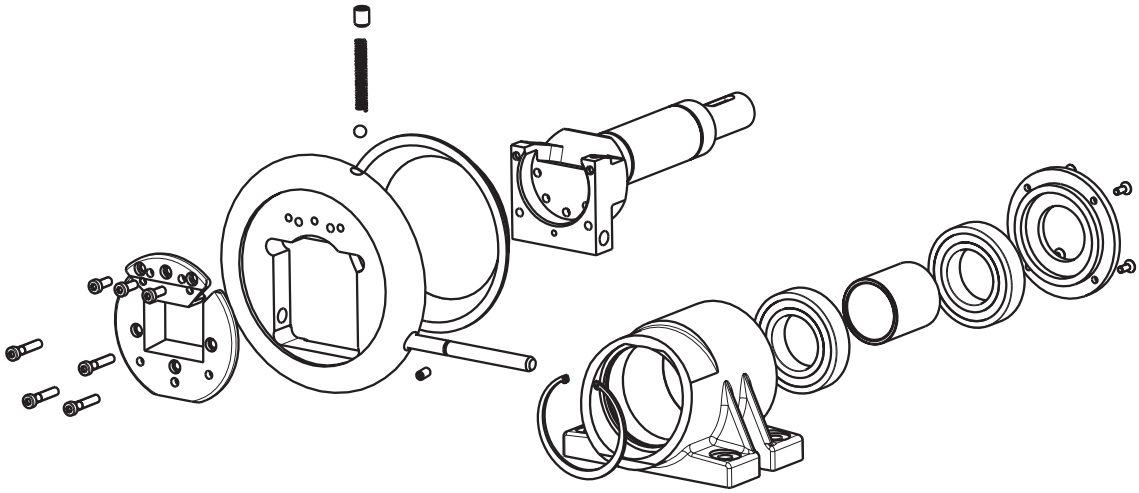
Changes reserved

Construction
Boschert-Chuck type VT





2.55

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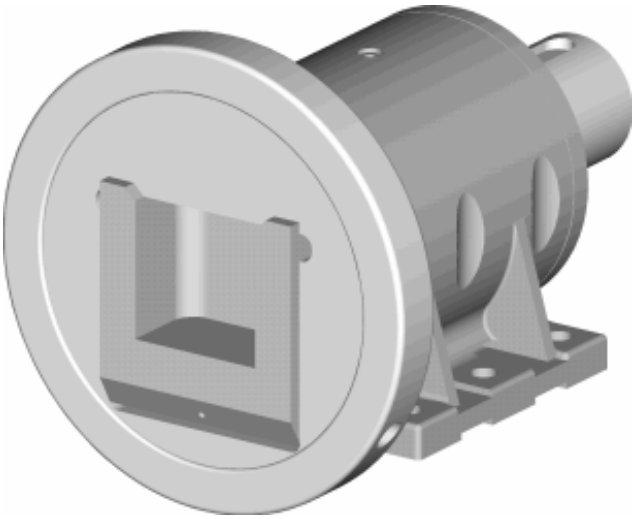
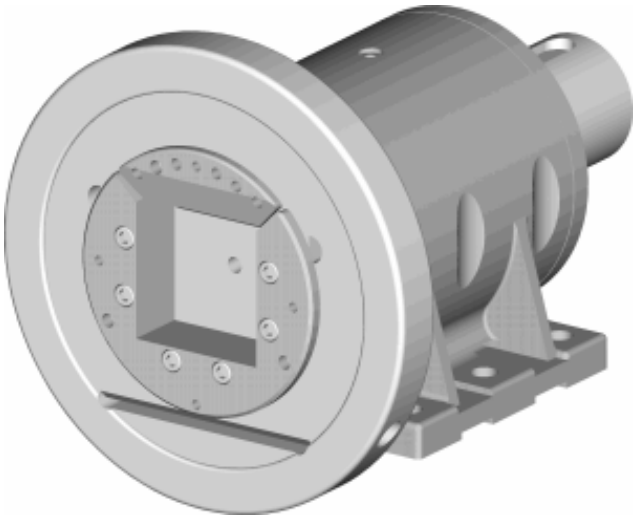
Changes reserved (a)

2.60 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





Beam weight max.: max. 12000 kg **(max. 26460 lbs)**
Square bar: **80 mm - 120 mm (3.1496“ - 4.7244“)**
Torque: **10000 Nm (7230 ft/lb)**

Checkbox !

Options						Info
VT-insert:	☐	without	☐ VT1	☐	VT6	
	☐	VT7	☐ special			
Hardness:	☐	52 HRC	☐ 58 HRC	☐	special HRC	2.63
Model:	☐	pillow block	☐ flange chuck			
Journal shaft end:	☐	without	☐ standard shaft	☐	special	2.63
Speed:	☐	<50 rpm	☐ 50 – 500 rpm			

Inquiry- and order form see chapter 9.00

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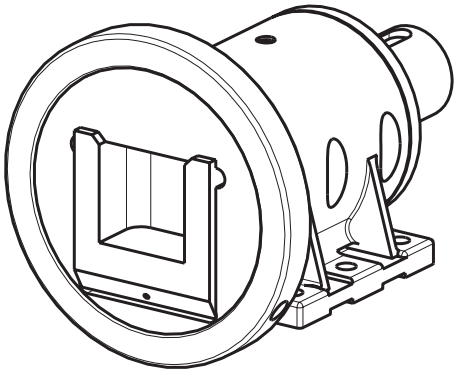
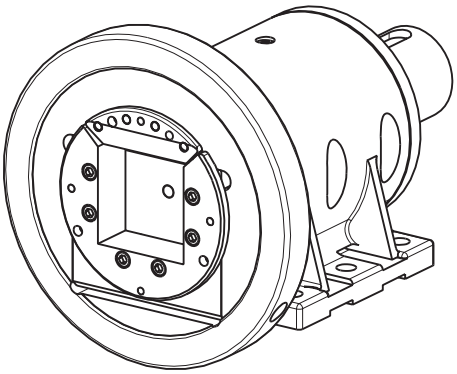
(a) Changes reserved

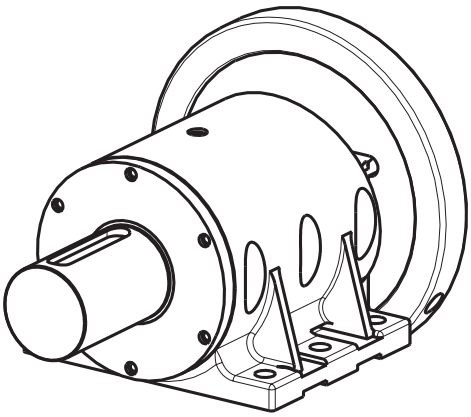
Boschert-Chuck
foot mounted chuck 80-120

Boschert-Chuck 80-120 type C

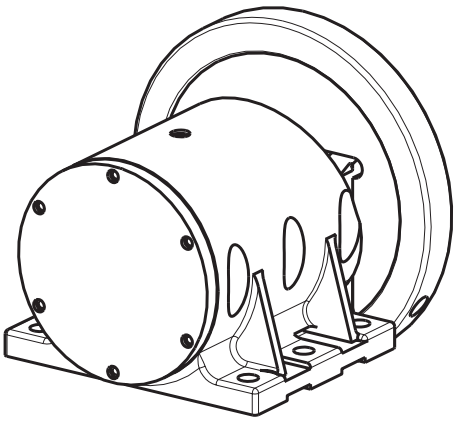


Boschert-Chuck 80-120 type VT

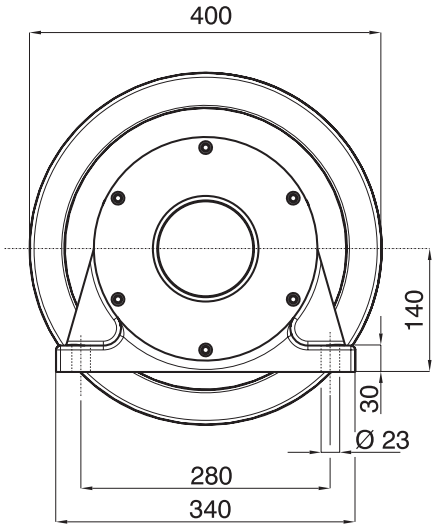


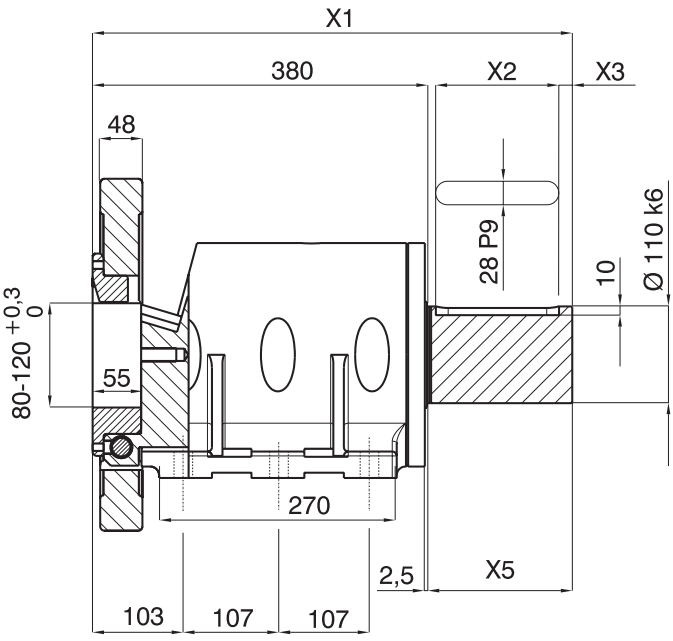


STW 80-120
chuck with shaft end



STO 80-120
chuck without shaft end





X1, X2, X3, X5 = per customer specification

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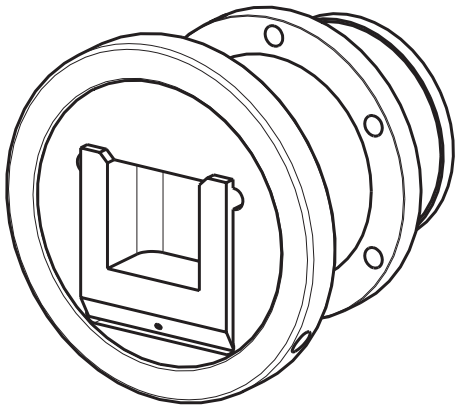
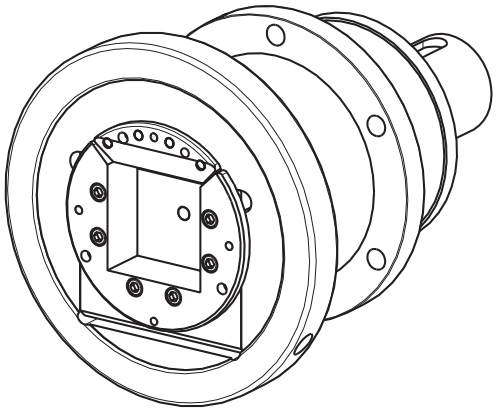
Changes reserved

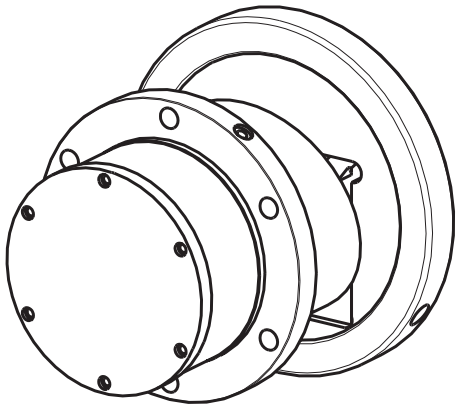
Boschert-Chuck
flange mounted chuck 80-120

Boschert-Chuck 80-120 type C

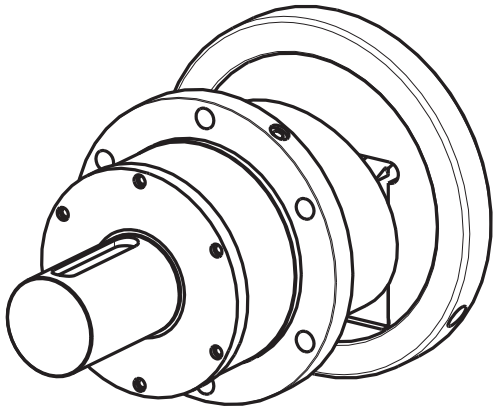


Boschert-Chuck 80-120 type VT

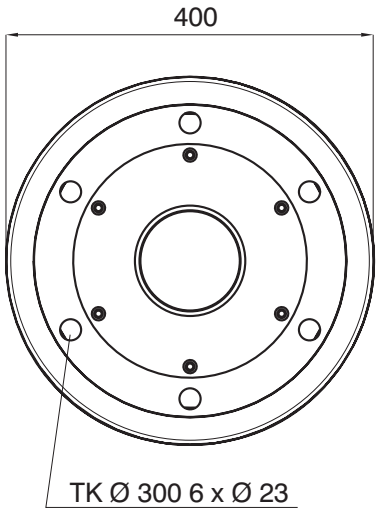




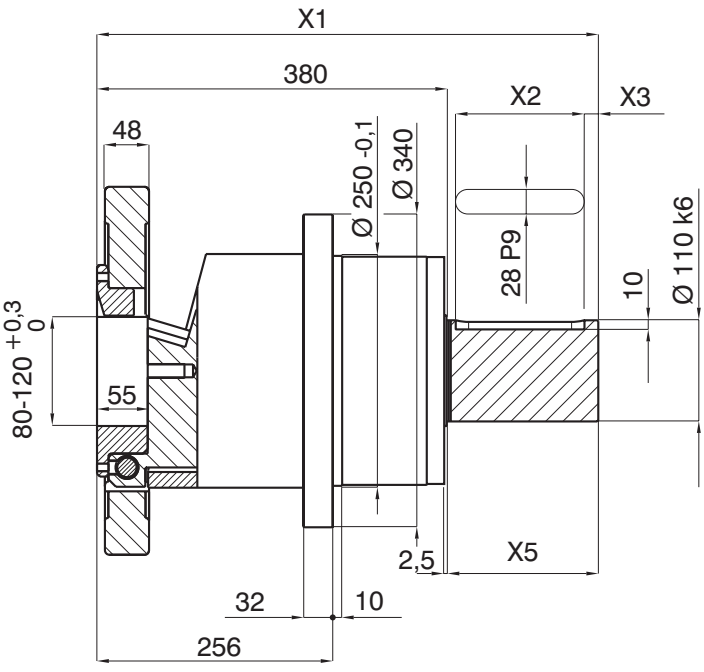
FLO 80-120
chuck without shaft end



FLW 80-120
chuck with shaft end



TK = bolt hole circle



X1, X2, X3, X5 = per customer specification

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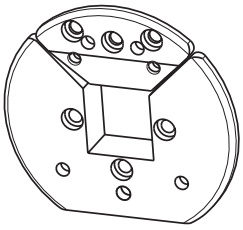
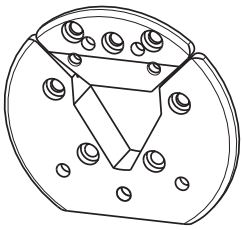
(a) Changes reserved

Boschert-Chuck
Options 80-120

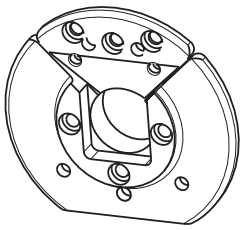
VT-insert



VT 1



VT 6



VT 7

Special VT on customer request

Info
5.30

Shaft ends

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

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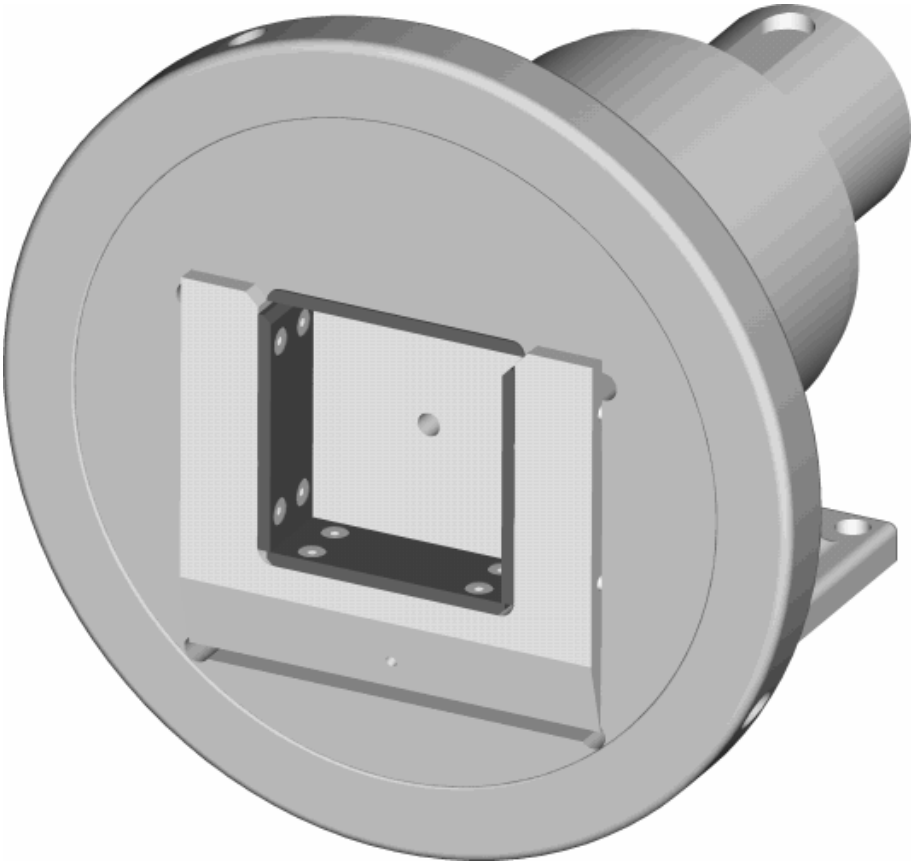
Changes reserved

2.70 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



Beam weight max.: **max. 22000 kg (max. 48500 lbs)**
Square bar: **□120 mm - 180 mm (4.7244“ - 7.0866“)**
Torque: **20000 Nm (14468 ft/lb)**

Checkbox !

Options				Info
Wear plates:	☐ 52 HRC	☐ 58 HRC	☐ special HRC	
Model:	☐ pillow block	☐ flange chuck		
Journal shaft type:	☐ without	☐ special		
Speed:	☐ <50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm	

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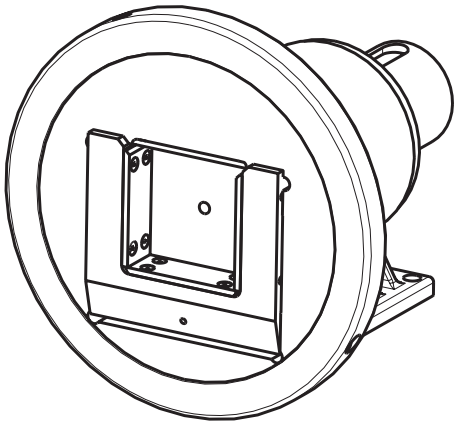
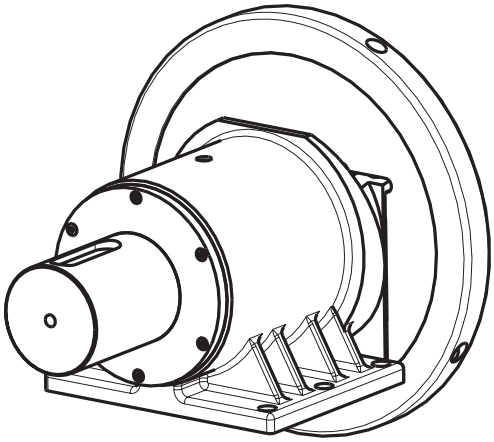
(a) Changes reserved

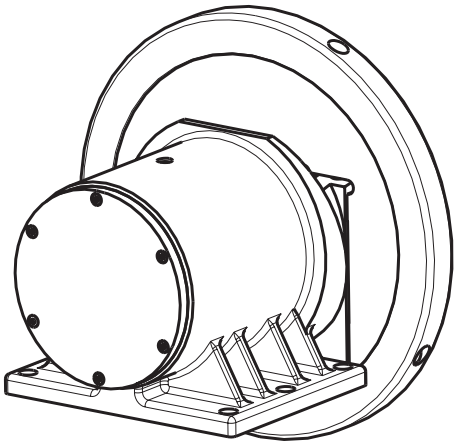
Boschert-Chuck
foot mounted chuck 120-180

Boschert-Chuck 120-180 with wear plates

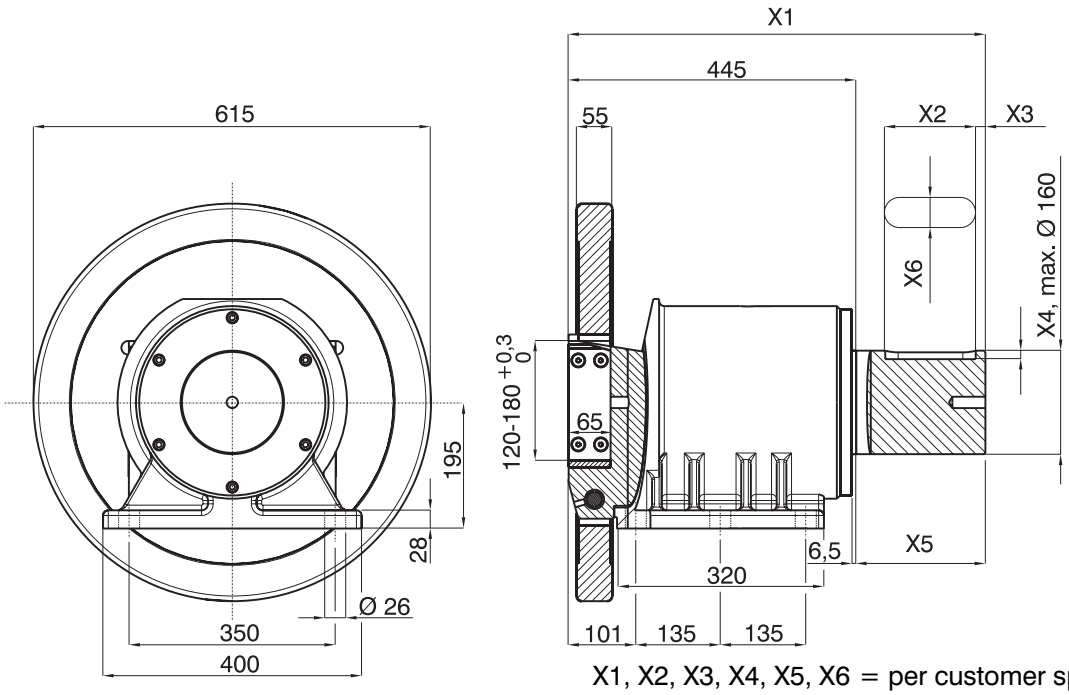




STW 120-180
chuck with shaft end



STO 120-180
chuck without shaft end



X1, X2, X3, X4, X5, X6 = per customer specification

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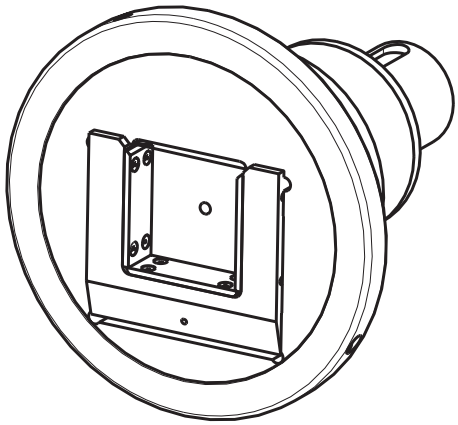
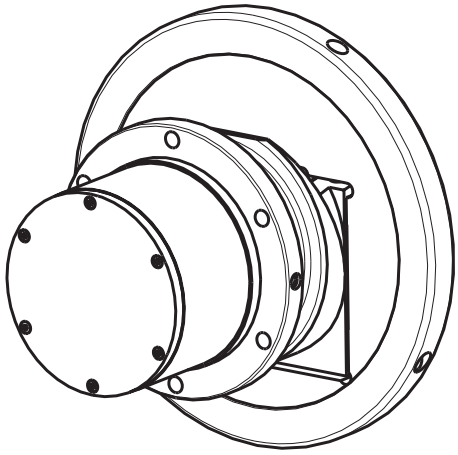
Changes reserved

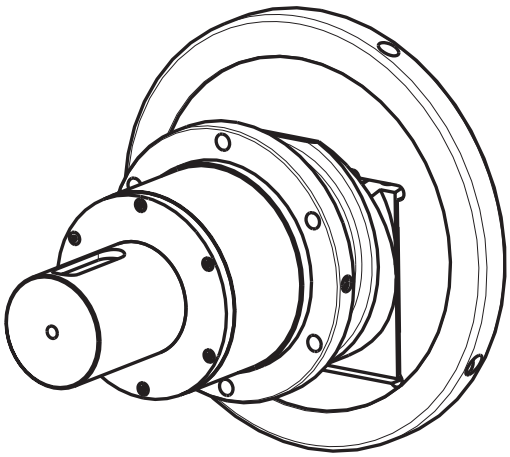
Boschert-Chuck
flange mounted chuck 120-180

Boschert-Chuck 120-180 with wear plates

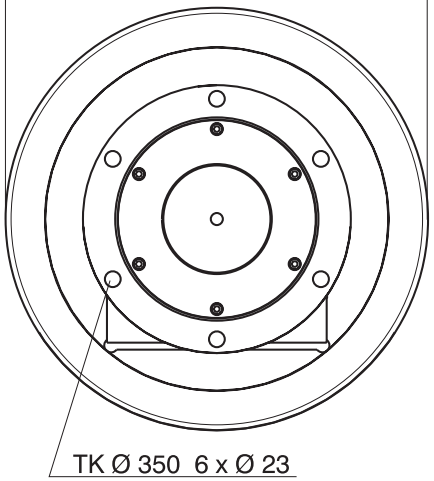




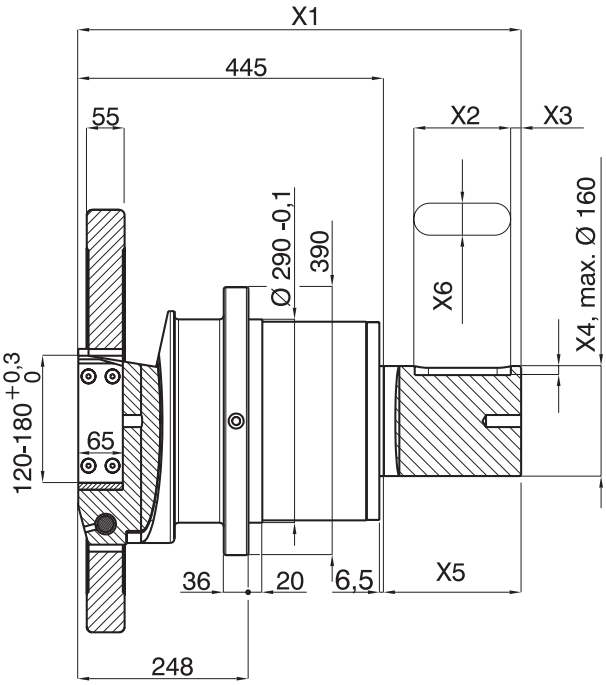
FLO 120-180
chuck without shaft end



FLW 120-180
chuck with shaft end



TK = bolt hole circle



X1, X2, X3, X4, X5, X6 = per customer specification

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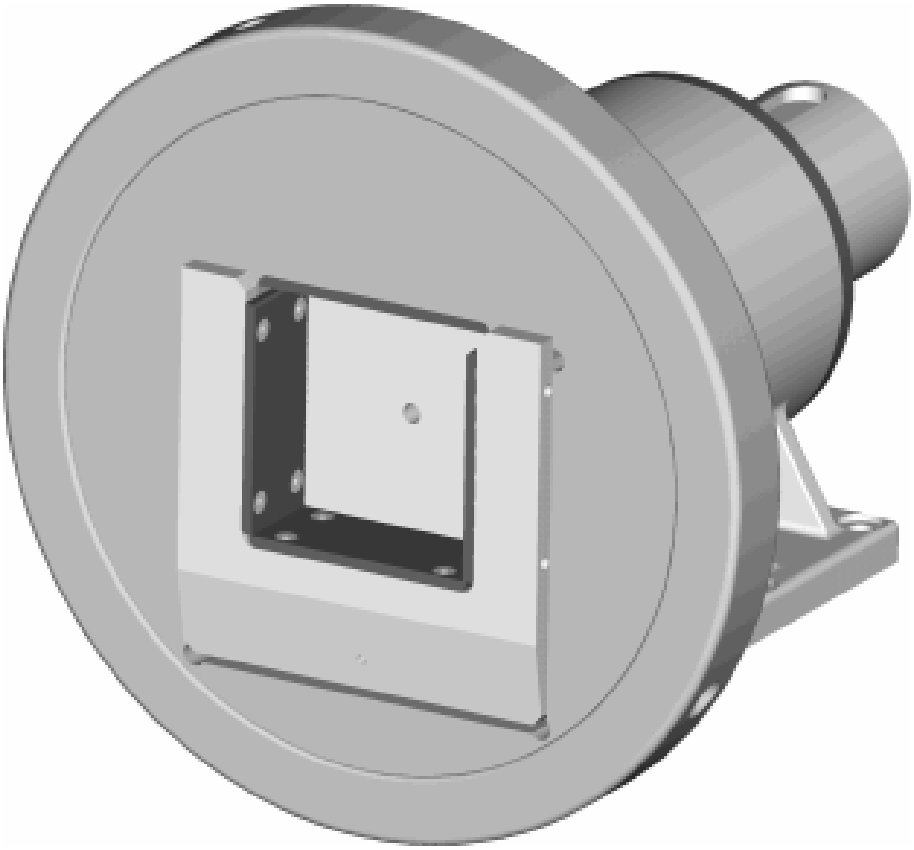
Changes reserved

2.80 Boschert-Chuck 170-200

170-200 STO	***Boschert*** foot mounted chuck without shaft end
170-200 STW	***Boschert*** foot mounted chuck with shaft end
170-200 FLO	***Boschert*** foot mounted chuck without shaft end
170-200 FLW	***Boschert*** foot mounted chuck with shaft end



Beam weight max.: **max. 32000 kg** **(max. 70550 lbs)**
Square bar: ☐ **170 mm - 200 mm (6.6929“ - 7.8740“)**
Torque: **25000 Nm (18090 ft/lb)**

Checkbox !

Options				Info
Wear plates:	☐ 52 HRC	☐ 58 HRC	☐ special HRC	
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ special		
Speed:	☐ <50 rpm	☐ 50 – 500 rpm		

Inquiry- and order form see chapter 9.00

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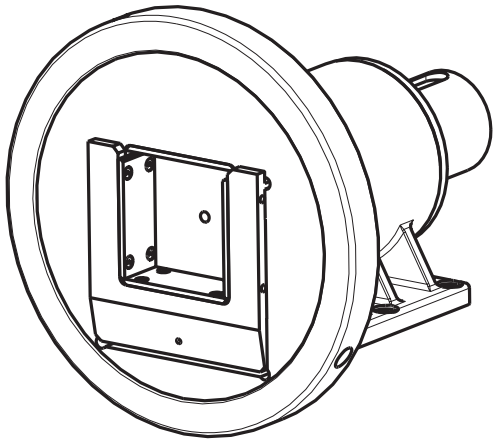
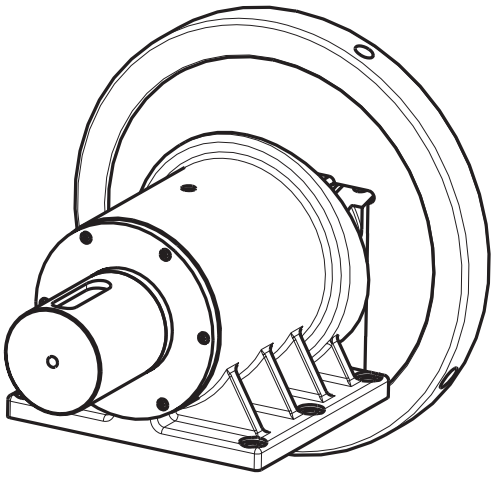
(a) Changes reserved

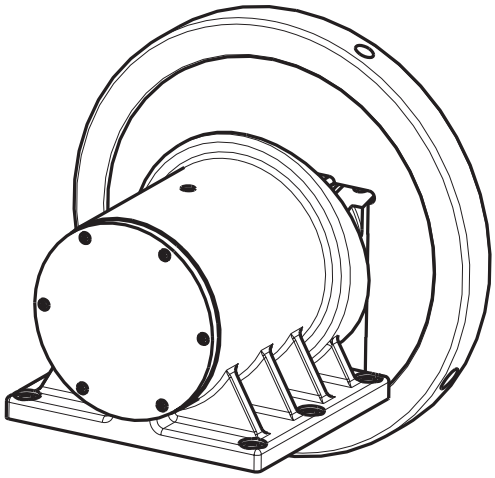
Boschert-Chuck
Foot mounted chuck 170-200

Boschert-Chuck 170-200 with wear plates

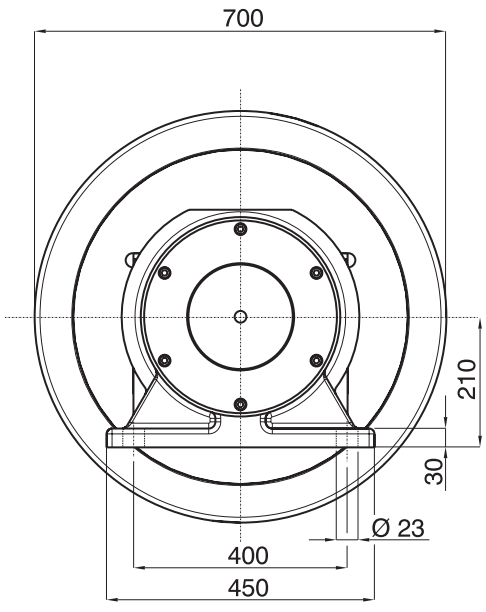


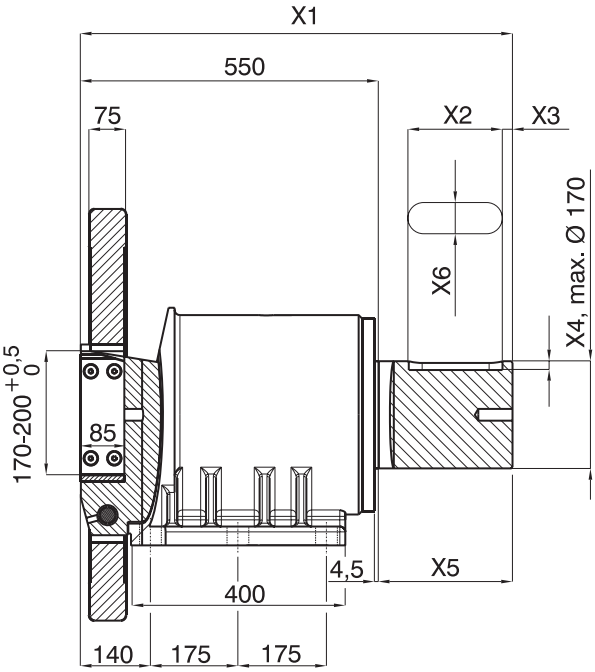


STW 170-200
chuck with shaft end



STO 170-200
chuck without shaft end





X1, X2, X3, X4, X5, X6 = per customer specification

2.81

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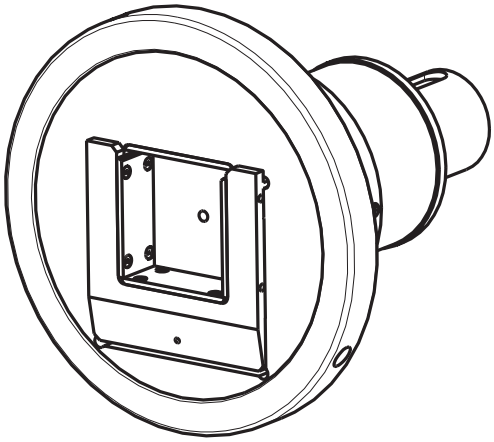
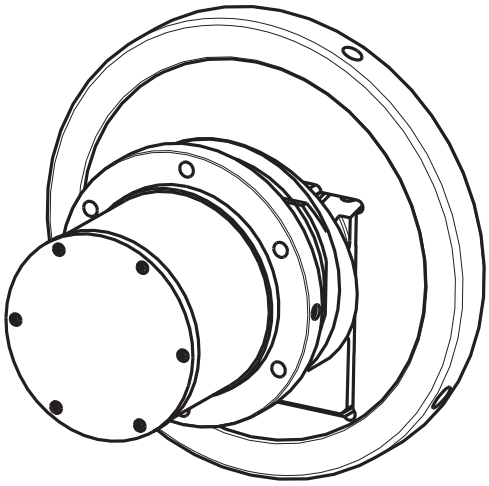
Changes reserved

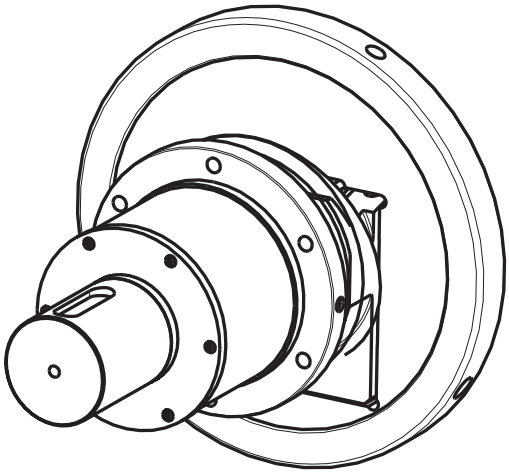
Boschert-Chuck
flange mounted chuck 170-200

Boschert-Chuck 170-200 with wear plates

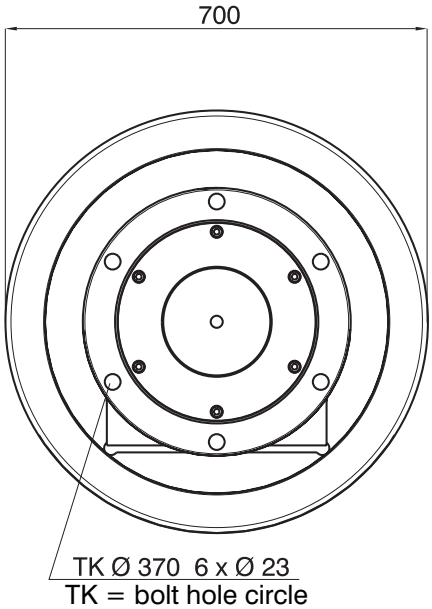


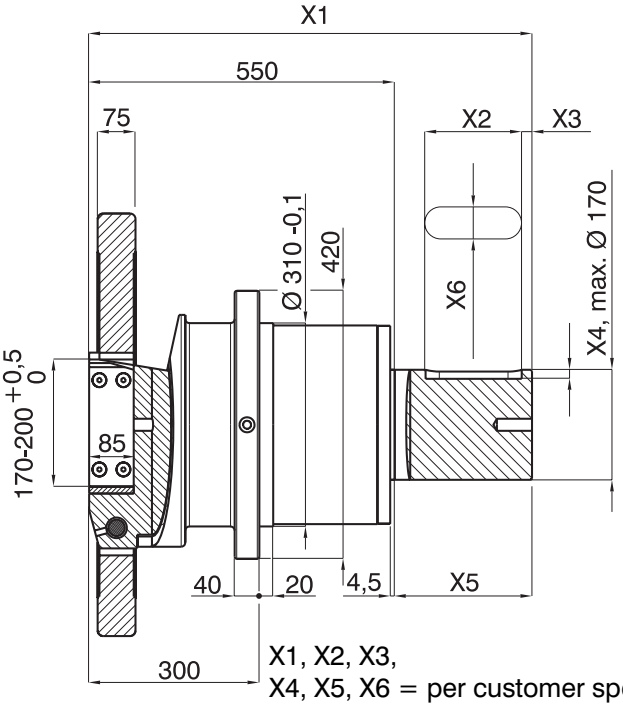


FLO 170-200
chuck without shaft end



FLW 170-200
chuck with shaft end





X1, X2, X3,
X4, X5, X6 = per customer specification

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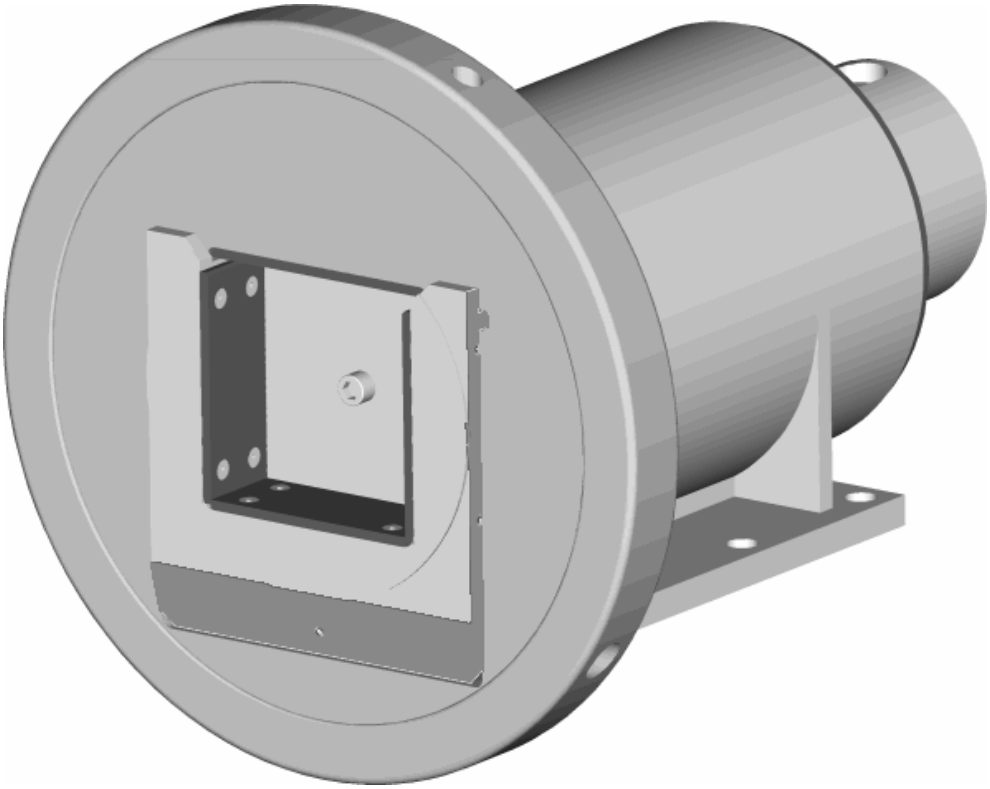
Changes reserved

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*** foot mounted chuck without shaft end
170-230 FLW	***Boschert*** foot mounted chuck with shaft end



Beam weight max.: max. 64000 kg **(max. 141090 lbs)**
Square bar: **□170 mm - 230 mm (6.6929“ - 9.0551“)**
Torque: **41000 Nm (29660 ft/lb)**

Checkbox !

Options				Info
Wear plates:	☐ 52 HRC	☐ 58 HRC	☐ special HRC	
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ special		
Speed:	☐ <50 rpm	☐ 50 – 500 rpm		

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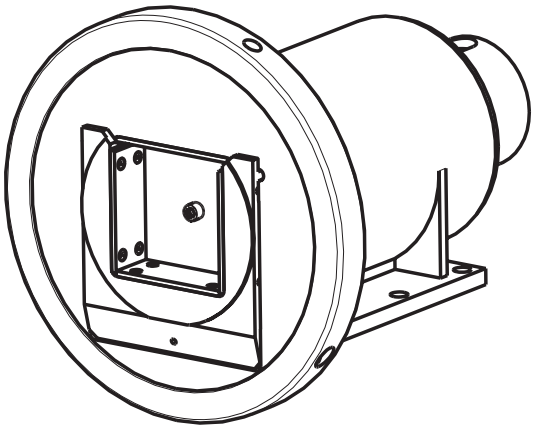
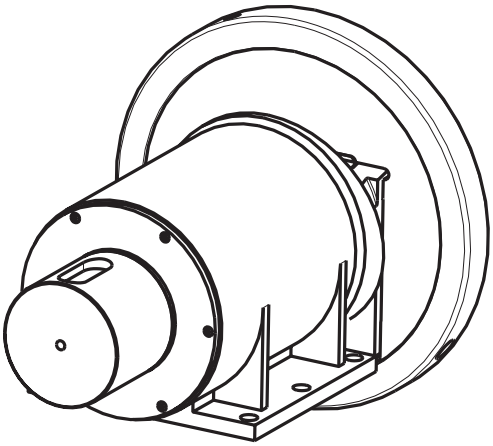
(a) Changes reserved

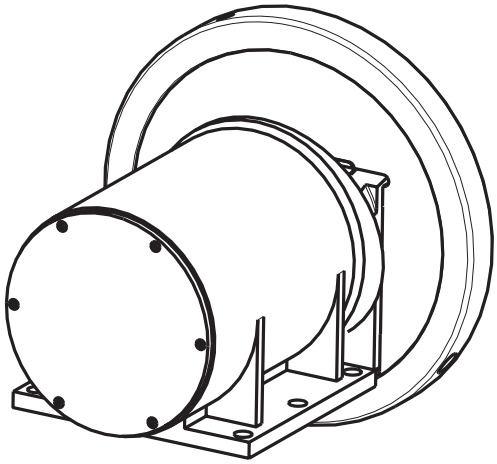
Boschert-Chuck
foot mounted chuck 170-230

Boschert-Chuck 170-230 with wear plates

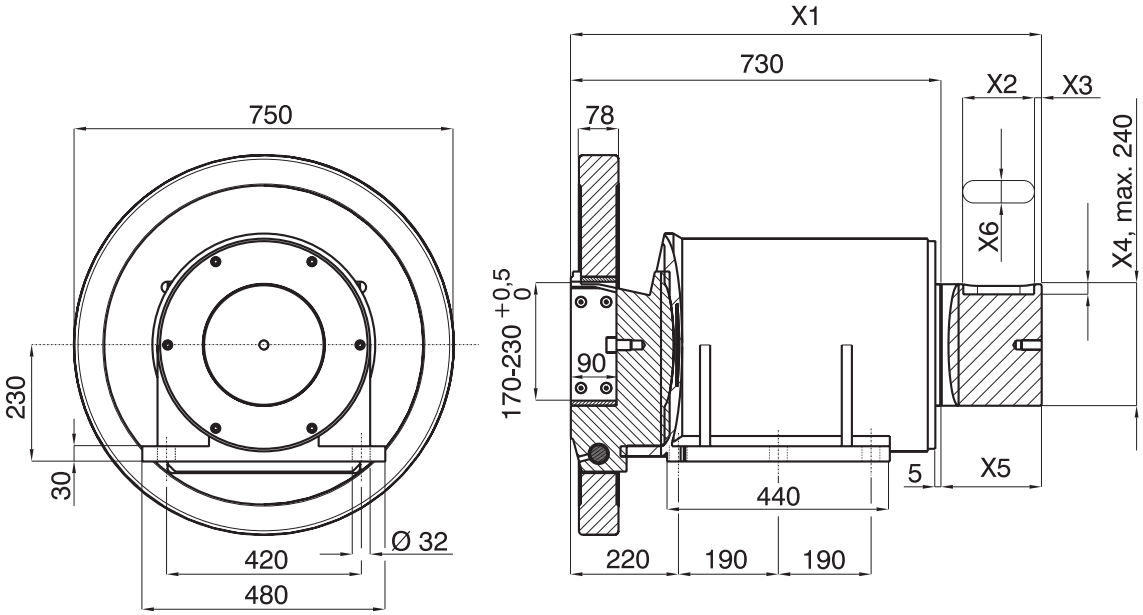




STW 170-230
chuck with shaft end



STO 170-230
chuck without shaft end



X1, X2, X3, X4, X5, X6 = per customer specification

2.91

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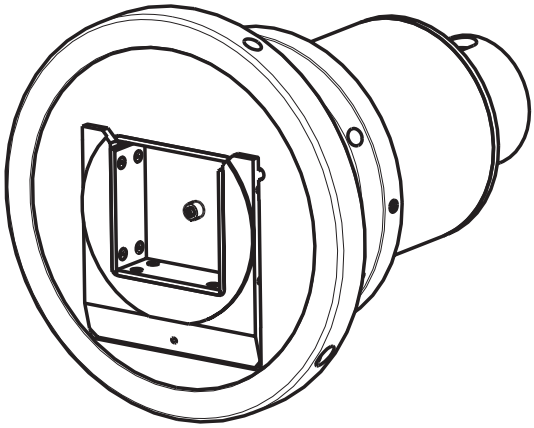
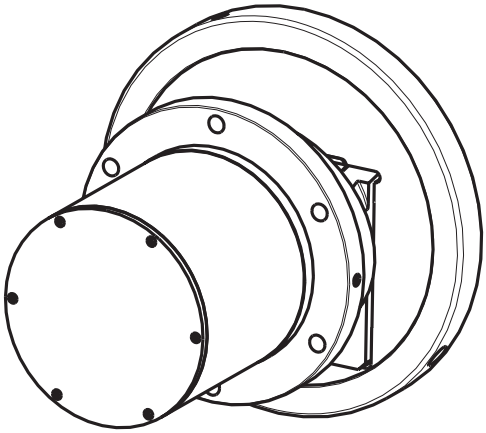
Changes reserved (a)

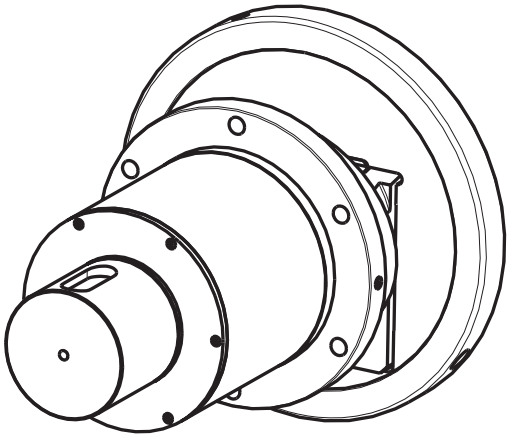
Boschert-Chuck
flange mounted chuck 170-230

Boschert-Chuck 170-230 with wear plates

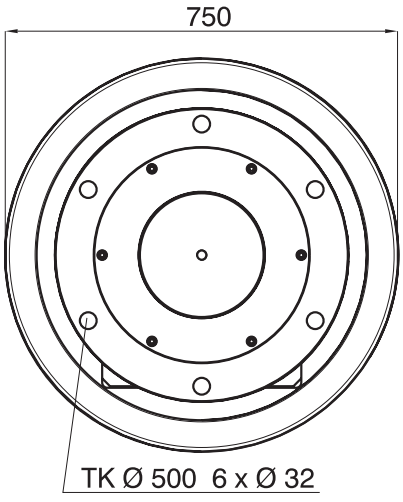




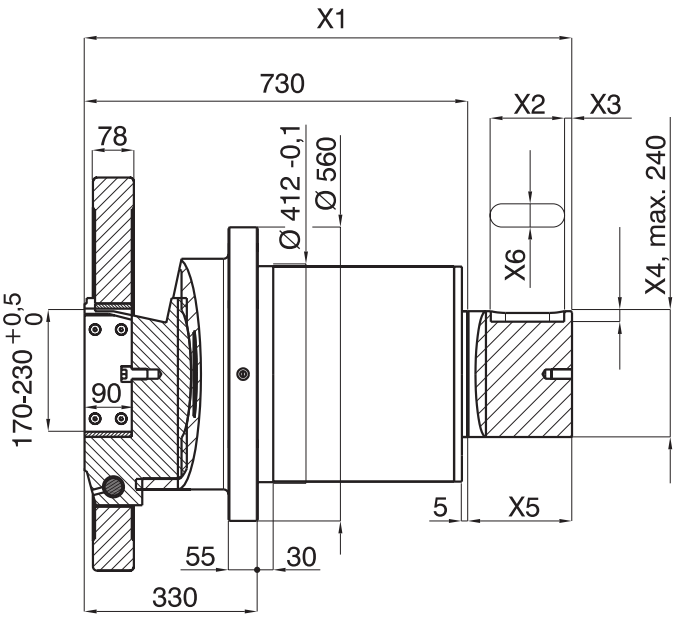
FLO 170-230
chuck without shaft end



FLW 170-230
chuck with shaft end



TK = bolt hole circle



X1, X2, X3, X4, X5, X6 = per customer specification

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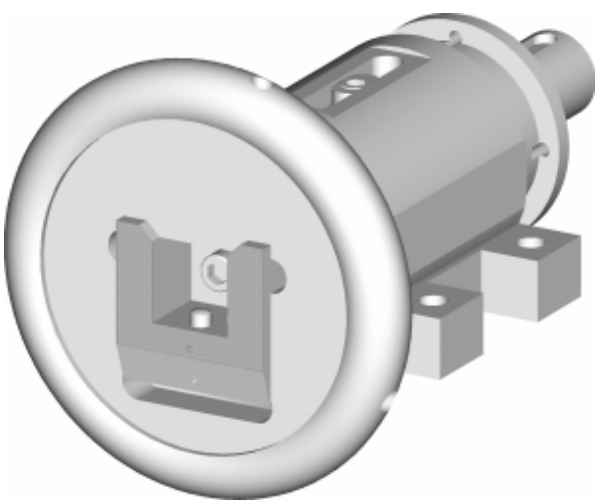
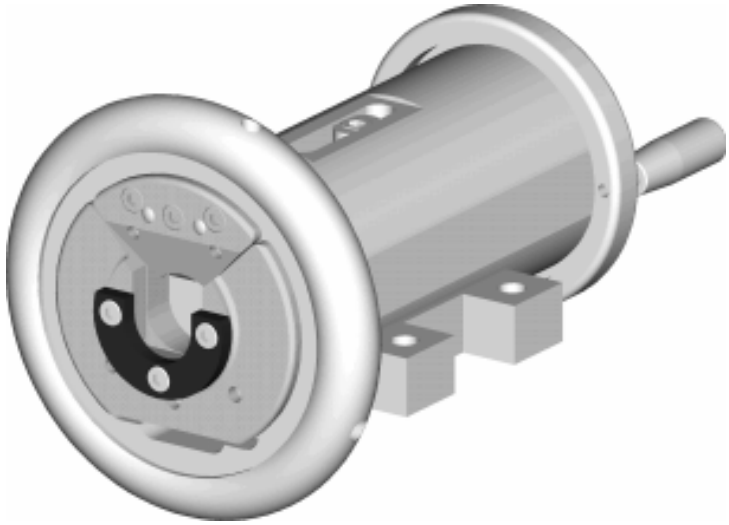
3.00 Boschert Sliding-Chuck

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





Beam weight max.: **max. 2800 kg (max. 6170 lbs)**
Square bar: **22 mm - 50 mm (0.8661“ - 1.9685“)**
Torque: **max. 1100 Nm (800 ft/lb)**

Checkbox !

Options						Info
VT-insert:	☐	without	☐ VT1	☐ VT2		
	☐	VT6	☐ VT7	☐ special		
Hardness:	☐	52 HRC	☐ 58 HRC	☐ special HRC		2.33
Model:	☐	pillow block	☐ flange chuck			
	☐	50 mm adjustment				
	☐	100 mm adjustment				
	☐	opening angle ±30°				5.43
Axial secure:	☐	driver pin	☐ driver disc			3.10 - 3.14
Journal shaft type:	☐	without	☐ standard shaft	☐ special		2.33
Handwheel lock:	☐	without	☐ lock type I	☐ lock type II		
			☐ left	☐ right		2.33
	(We recommend handwheel locks on applications in turret winders)					
Add. parts:	☐	without	☐ clutch	☐ drive		7.00
	☐	brake				6.00
Speed:	☐	<50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm		

Inquiry- and order form see chapter 9.00

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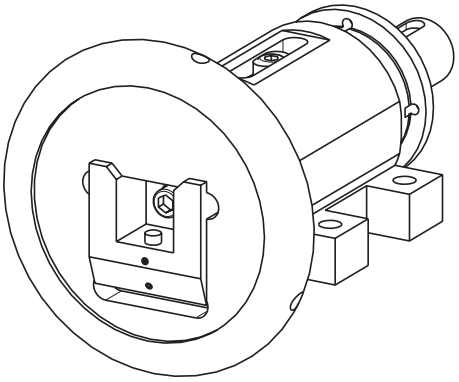
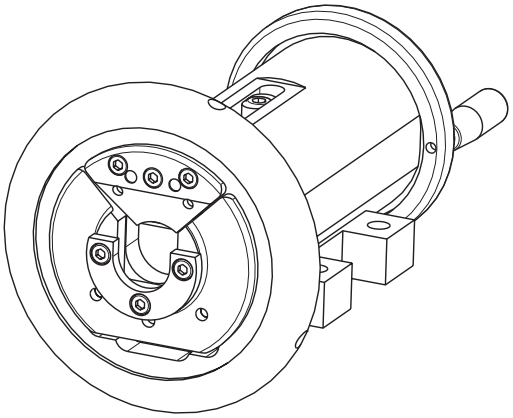
(a) Changes reserved

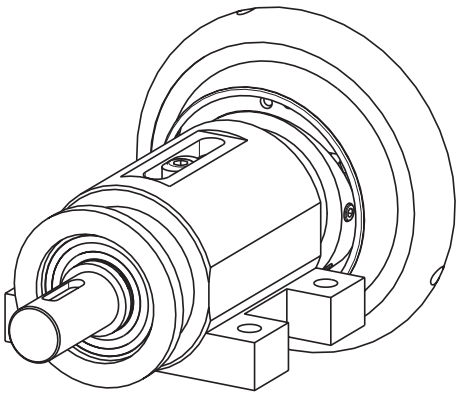
Boschert-Sliding-Chuck
foot mounted chuck

Boschert-Sliding-Chuck type C

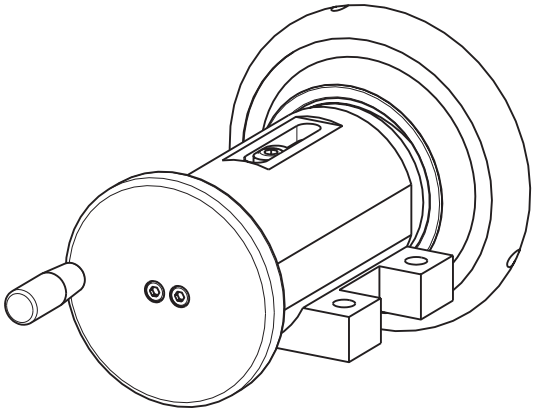


Boschert-Sliding-Chuck type VT





SKW
chuck with shaft end



SKO
chuck without shaft end

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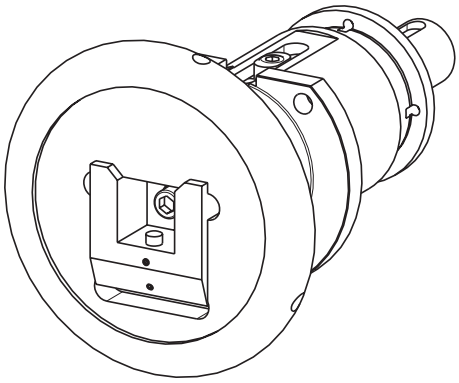
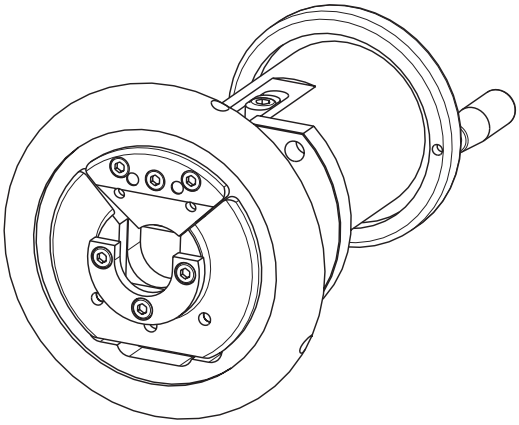
Changes reserved

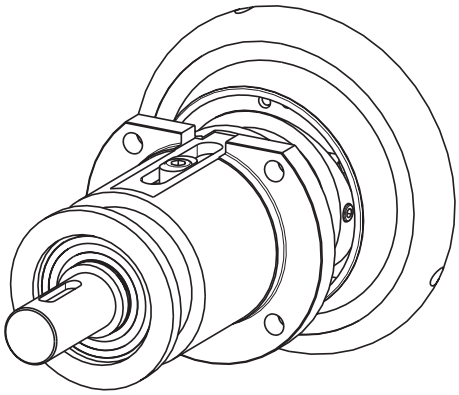
Boschert-Sliding-Chuck
flange mounted chuck

Boschert-Sliding-Chuck type C

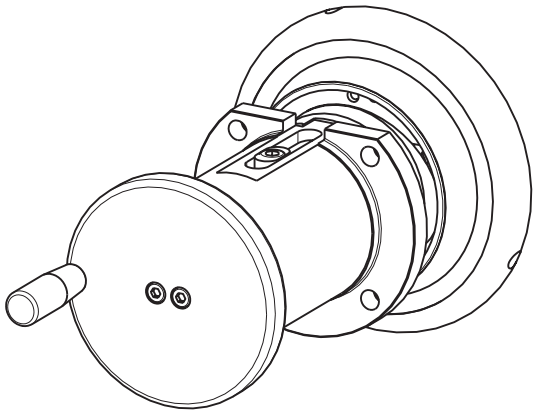


Boschert-Sliding-Chuck type VT





SKWF
chuck with shaft end



SKOF
chuck without shaft end

We recommend handwheel locks on applications in turret winders.

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

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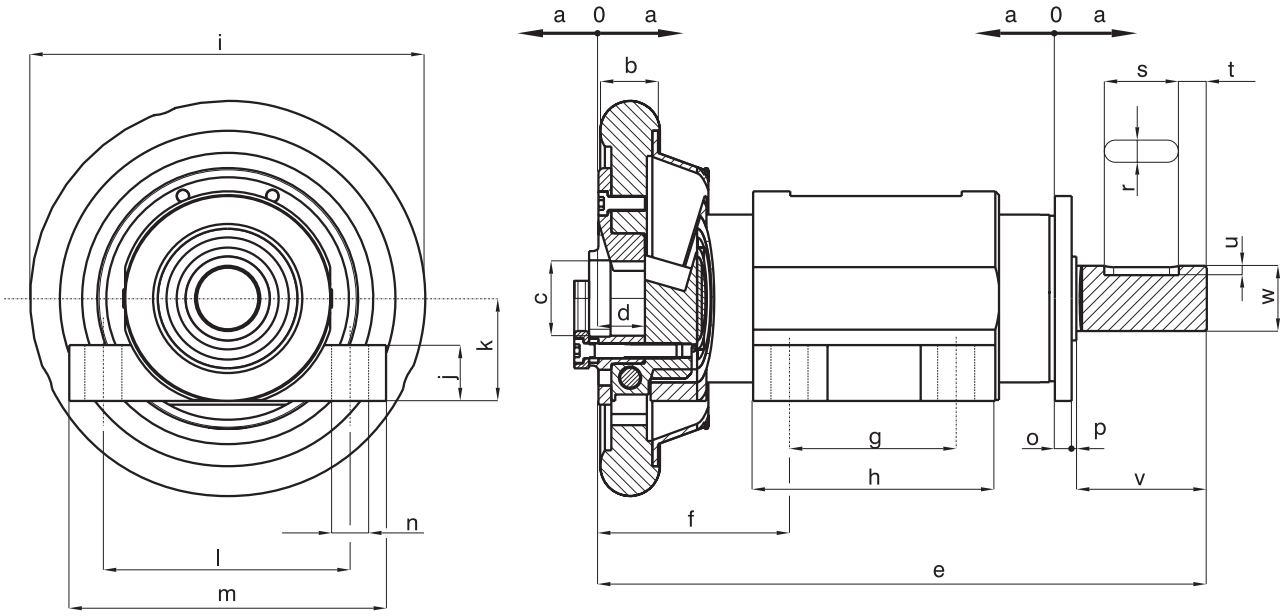
Changes reserved

Boschert-Sliding-Chuck
foot mounted chuck

SKW *Boschert* foot mounted chuck with shaft end



SW = adjustment

	22-30	30-40		40-50	
SW	**50**	**50**	**100**	**50**	**100**
a	25	25	50	25	50
b	25	32	32	40	40
c	22-30	30-40	30-40	40-50	40-50
d	22	25	25	27	27
e	322,5	338,5	438,5	372,5	472,5
f	100	103	128	115	140
g	90	90	90	80	80
h	130	130	130	130	130
Ø i	160	212	212	235	235
j	18	30	30	28	28
k	50	55	55	75	75
l	110	140	140	160	160
m	145	168	168	200	200
Ø n	13	14	14	14	14
o	12	12	12	12	12
p	1,5	2,5	2,5	2,5	2,5
r P9	8	12	12	14	14
s	40	70	70	90	90
t	15	6	6	10	10
u	4	5	5	5,5	5,5
v	70	82	82	110	110
Ø w k6	28	42	42	50	50

	beam weight max.	square bar	torque
22-30	1760 lbs	20-30	130 ft/lb
30-40	3090 lbs	30-40	220 ft/lb
40-50	6170 lbs	40-50	800 ft/lb

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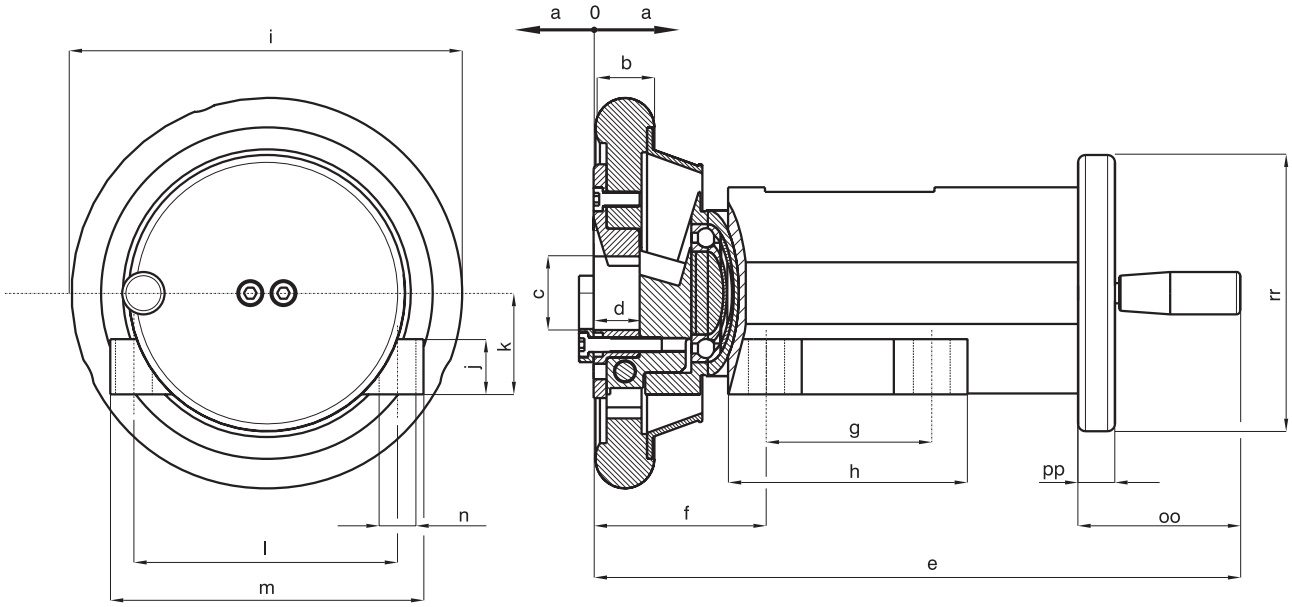
Changes reserved

Boschert-Sliding-Chuck
foot mounted chuck

SKO *Boschert* foot mounted chuck without shaft end



SW = adjustment

	22-30	30-40		40-50	
SW	**50**	**50**	**100**	**50**	**100**
a	25	25	50	25	50
b	25	32	32	40	40
c	22-30	30-40	30-40	40-50	40-50
d	22	25	25	27	27
e	357,5	360,5	435,5	381,5	456,5
f	100	103	128	115	140
g	90	90	90	80	80
h	130	130	130	130	130
Ø i	160	212	212	235	235
j	18	30	30	28	28
k	50	55	55	75	75
l	110	140	140	160	160
m	145	168	168	200	200
Ø n	13	14	14	14	14
oo	83,5	87,5	87,5	102,5	102,5
pp	16	20	20	20	20
Ø rr	128	150	150	168	168

	beam weight max.	square bar	torque
22-30	1760 lbs	20-30	130 ft/lb
30-40	3090 lbs	30-40	220 ft/lb
40-50	6170 lbs	40-50	800 ft/lb

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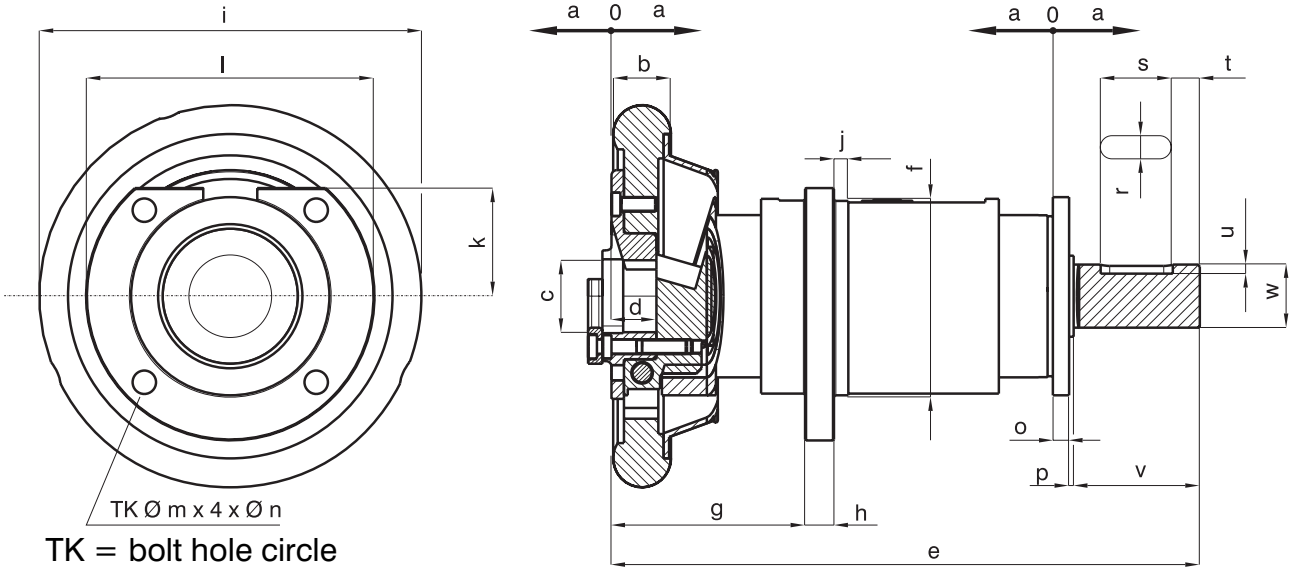
Changes reserved

Boschert-Sliding-Chuck
flange mounted chuck

SKWF *Boschert* flange mounted chuck with shaft end



TK = bolt hole circle

SW = adjustment

	22-30	30-40		40-50	
SW	**50**	**50**	**100**	**50**	**100**
a	25	25	50	25	50
b	25	32	32	40	40
c	22-30	30-40	30-40	40-50	40-50
d	22	25	25	27	27
e	322,5	338,5	438,5	372,5	472,5
Ø f f7	100	110	110	140	140
g	100	107,5	132,5	114,5	139,5
h	16	16	16	22	22
Ø i	160	212	212	235	235
j	4	8	8	8	8
k	55	60	60	77	77
Ø l	145	160	160	210	210
Ø m	120	135	135	170	170
Ø n	11	13	13	18	18
o	12	12	12	12	12
p	1,5	2,5	2,5	2,5	2,5
r P9	8	12	12	14	14
s	40	70	70	90	90
t	15	6	6	10	10
u	4	5	5	5,5	5,5
v	70	82	82	110	110
Øw k6	28	42	42	50	50

	beam weight max.	square bar	torque
22-30	1760 lbs	20-30	130 ft/lb
30-40	3090 lbs	30-40	220 ft/lb
40-50	6170 lbs	40-50	800 ft/lb

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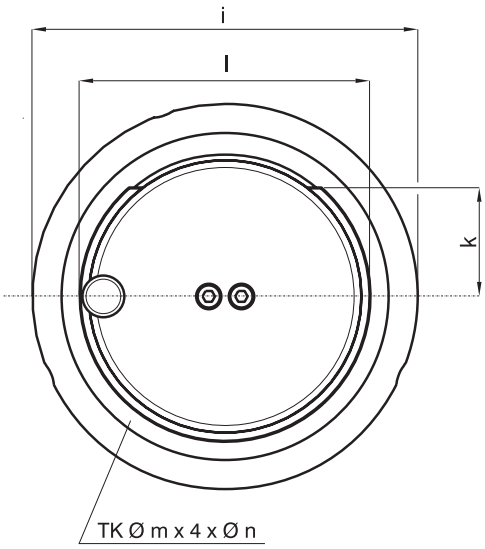
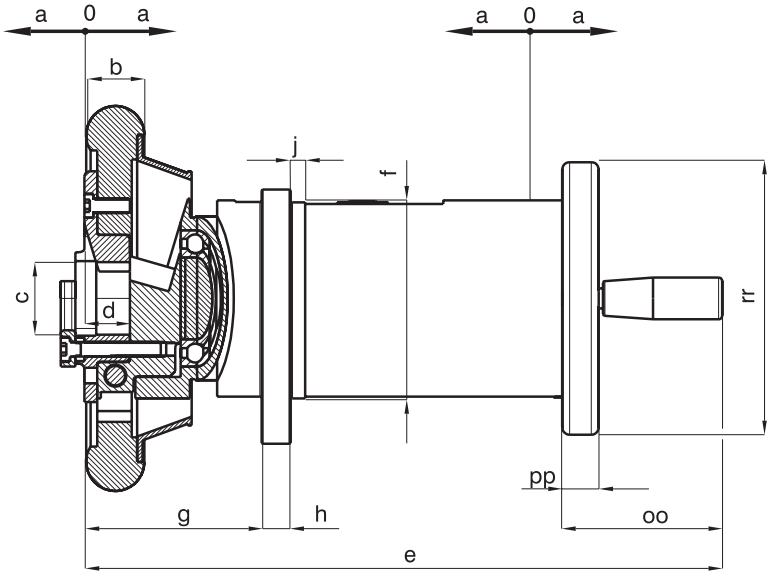
Changes reserved

Boschert-Sliding-Chuck
flange mounted chuck

BOSCHERT

SKOF *Boschert* flange mounted chuck without shaft end





TK = bolt hole circle

SW = adjustment

	22-30	30-40		40-50	
SW	**50**	**50**	**100**	**50**	**100**
a	25	25	50	25	50
b	25	32	32	40	40
c	22-30	30-40	30-40	40-50	40-50
d	22	25	25	27	27
e	357,5	360,5	435,5	381,5	456,5
Ø f f7	100	110	110	140	140
g	100	107,5	132,5	114,5	139,5
h	16	16	16	22	22
Ø i	160	212	212	235	235
j	4	8	8	8	8
k	55	60	60	77	77
Ø l	145	160	160	210	210
Ø m	120	135	135	170	170
Ø n	11	13	13	18	18
oo	83,5	87,5	87,5	102,5	102,5
pp	16	20	20	20	20
Ø rr	128	150	150	168	168

	beam weight max.	square bar	torque
22-30	1760 lbs	20-30	130 ft/lb
30-40	3090 lbs	30-40	220 ft/lb
40-50	6170 lbs	40-50	800 ft/lb

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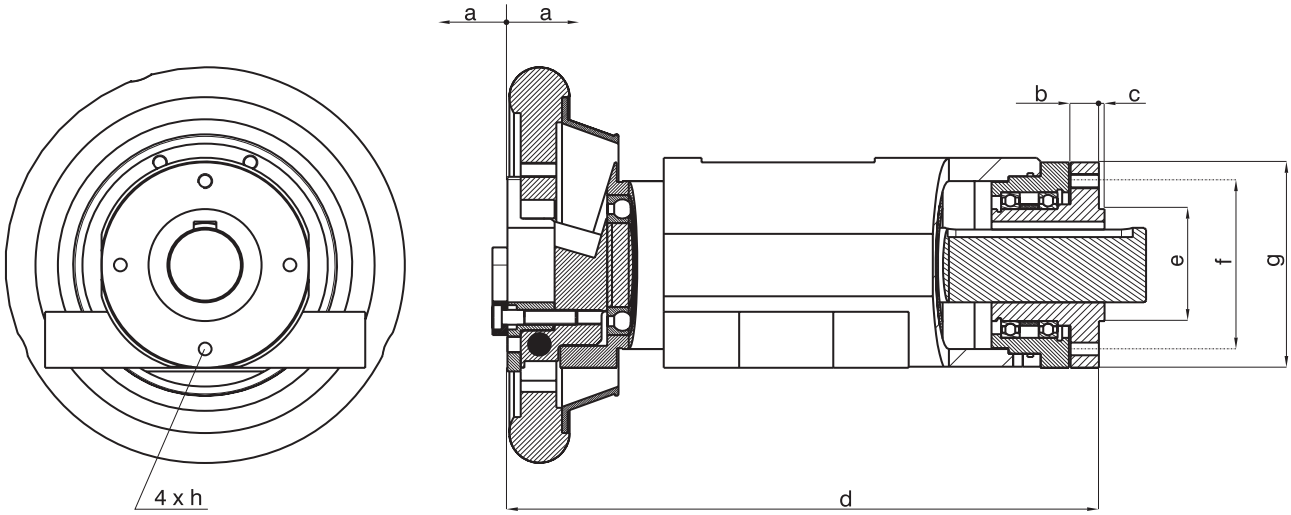
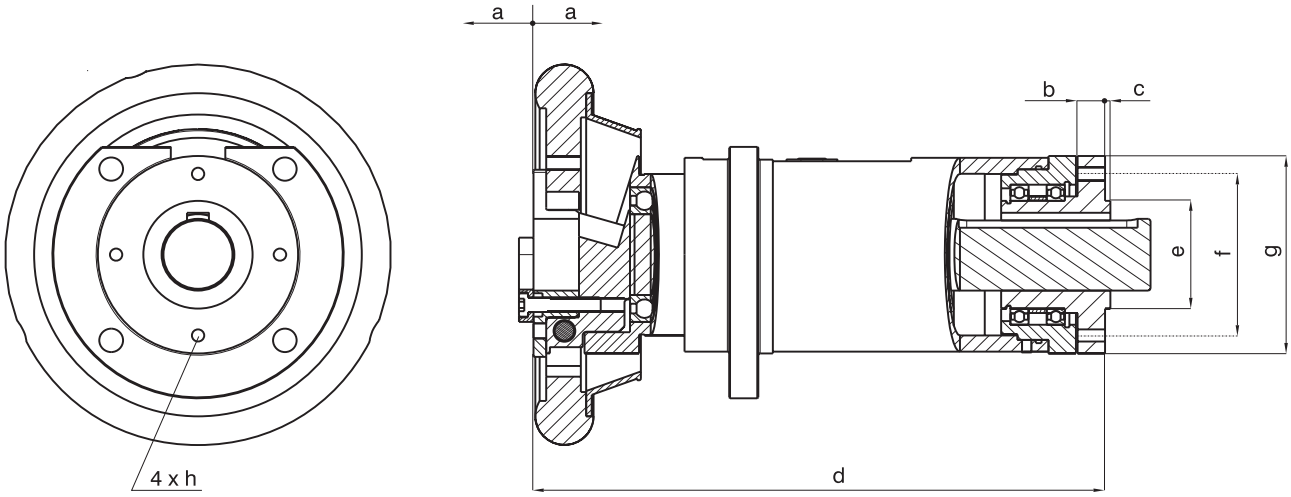
(a) Changes reserved

Boschert-Sliding-Chuck with fixed drive



foot mounted chuck



flange mounted chuck

SW = adjustment

	22-30	30-40		40-50	
SW	**50**	**50**	**100**	**50**	**100**
a	25	25	50	25	50
b	12	15	15	15	15
c	3	3	3	3	3
d	308	314	389	329,5	404,5
Ø e	50	60	60	76	76
Ø f	75	90	90	110	110
Ø g	98	110	110	138	138
h	M 8	M 8	M 8	M 10	M 10

for dimensions not shown please see page 3.04 - 3.06

	beam weight max.	square bar	torque
22-30	1760 lbs	20-30	130 ft/lb
30-40	3090 lbs	30-40	220 ft/lb
40-50	6170 lbs	40-50	800 ft/lb

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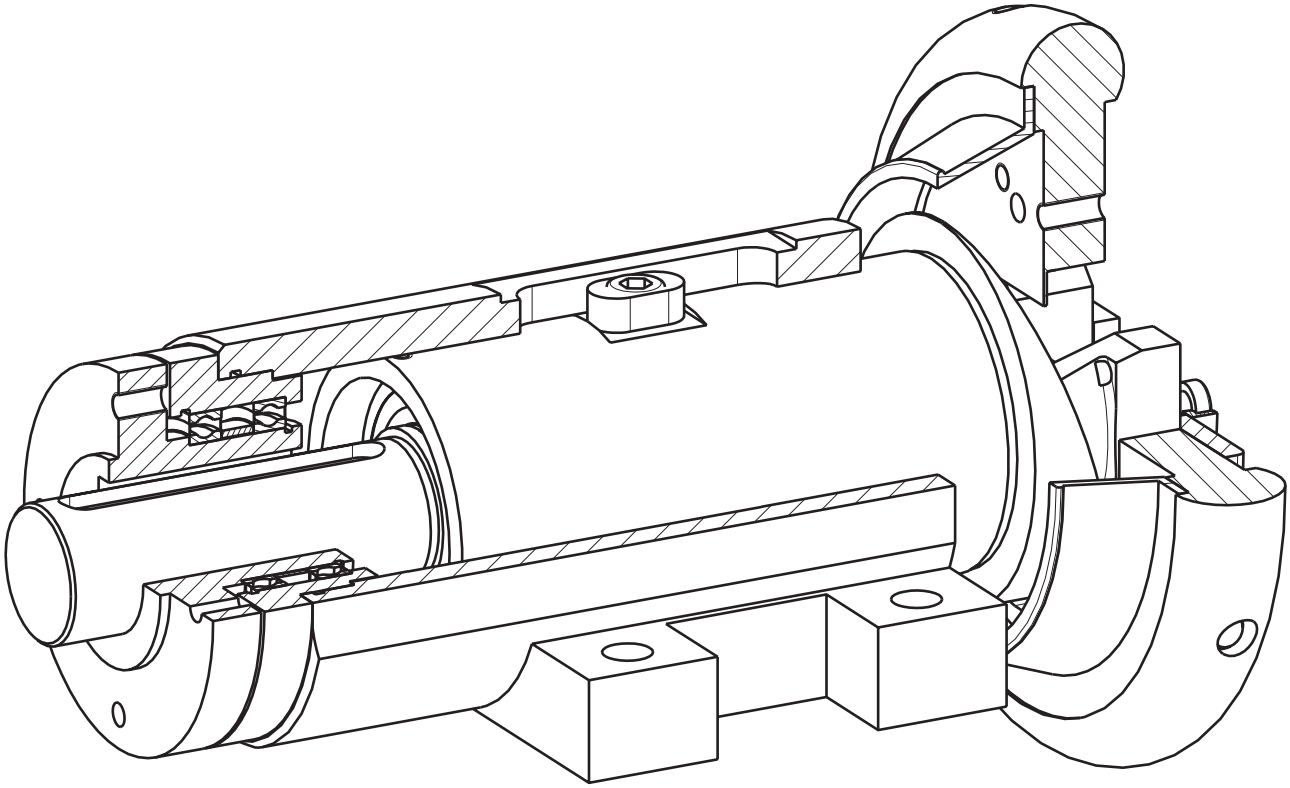
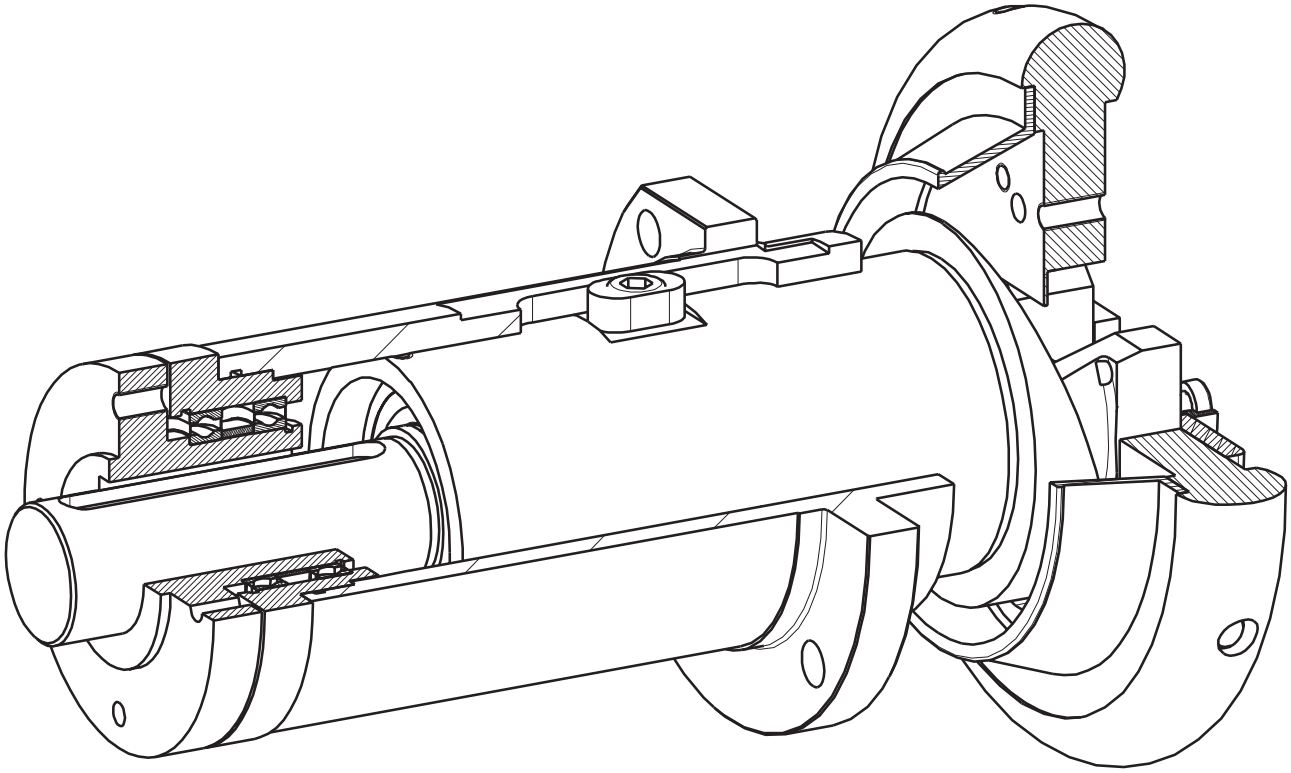
Changes reserved

Construction Sliding-Chuck with fixed drive

BOSCHERT





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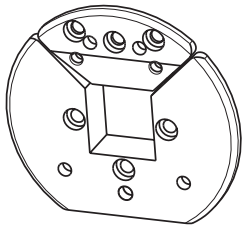
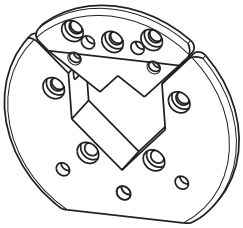
Changes reserved

Boschert-Sliding-Chuck Options

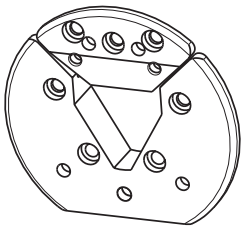
VT-insert



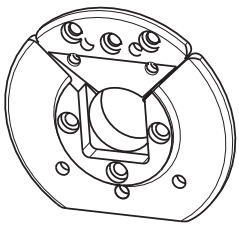
VT 1



VT 2



VT 6



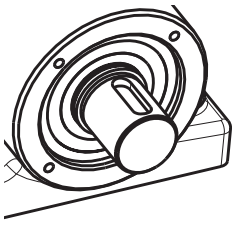
VT 7

For VT2 and VT 6 a radial driver is necessary. See information page 5.23

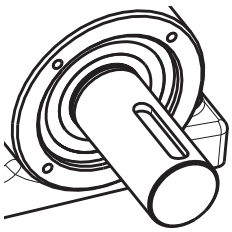
Special VT on customer request

Info 5.50

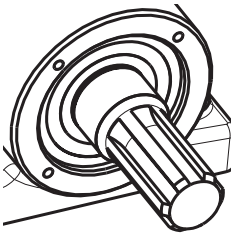
Shaft ends



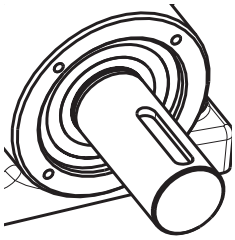
ESB



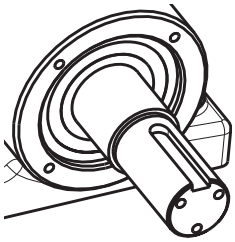
ESB i



DSB



RU



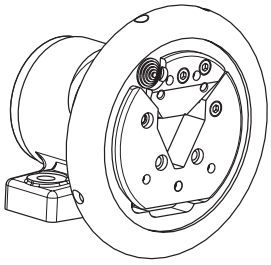
HRU

Special shaft ends on customer request

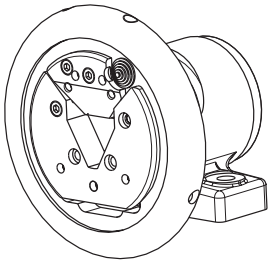
Info 5.50

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

Handwheel lock

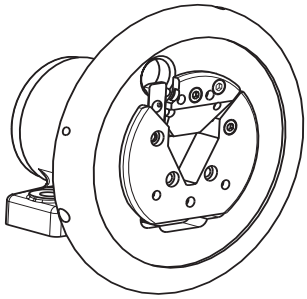


HRV I left

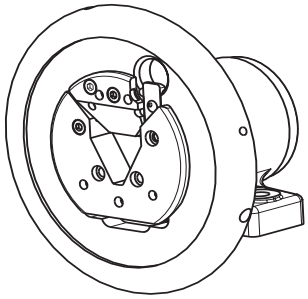


HRV I right

only 22-30



HRV II left



HRV II right

We recommend handwheel locks
on applications in turret winders.

Info 5.44

Info 5.45

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

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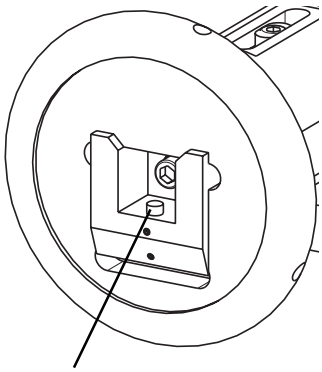
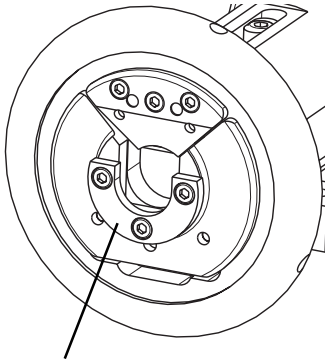
Changes reserved

Axial locking of Winding shaft



Axial locking with driver pin

	standard	option
C-chuck	x	
VT1	x	



Axial locking with driver disc

	standard	option
C-chuck		x
VT1		x
VT2	x	
VT6	x	
VT7	x	

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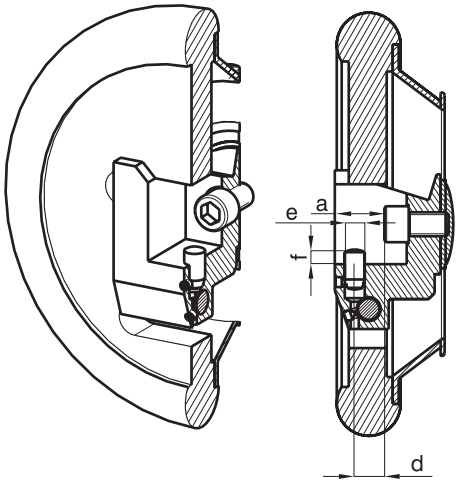
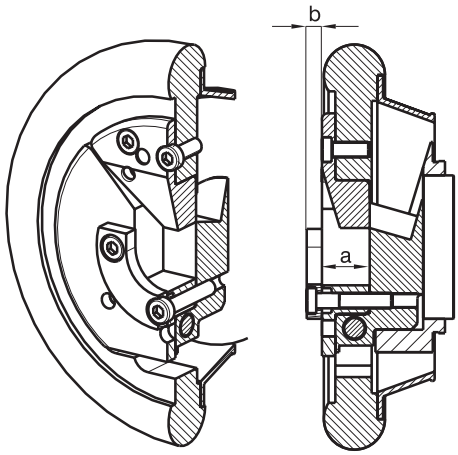
(a) Changes reserved

Dimensions winding shaft in sliding chuck



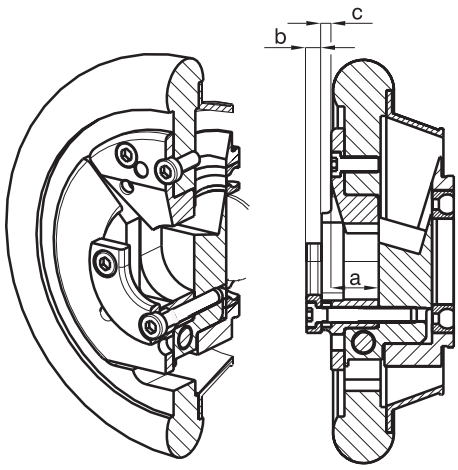
driver pin

	22-30	30-40	40-50
a	22	25	27
d	12	15	14
Ø e m6	8	10	12
f	6	6	6



driver disc VT1-VT6

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



driver disc VT7

	22-30	30-40	40-50
a	22	25	27
b	7	8	8
c	3	5	4

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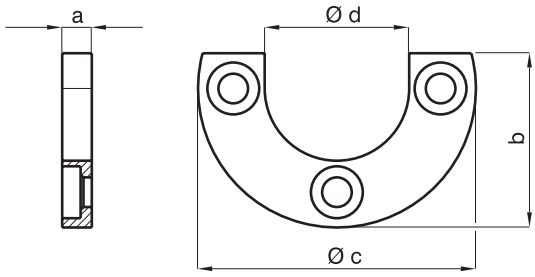
Changes reserved

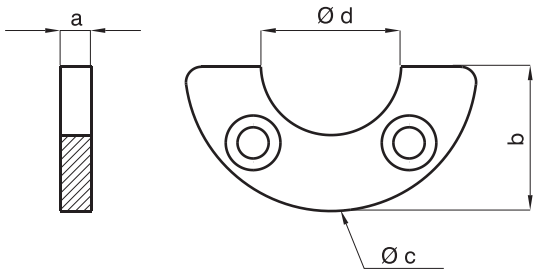
BOSCHERT

VT1



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

VT2



	22-30	30-40	40-50
a	7	8	8
b	29	37	44
Ø c	60	75	90
Ø d	d = square bar dimension - 1 +0.1		

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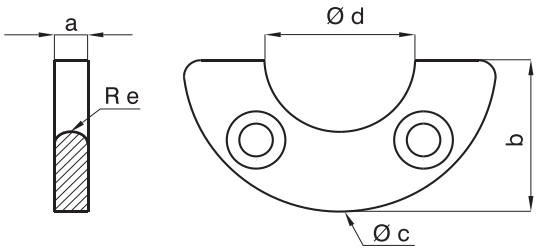
Changes reserved

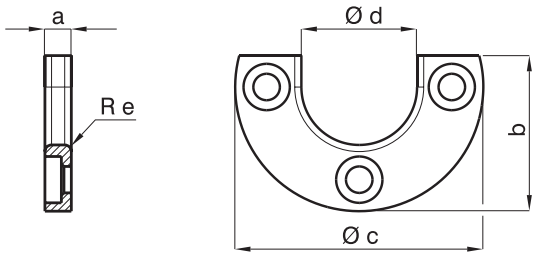
BOSCHERT

VT6



	Mini	19-25	22-30	30-40	40-50
a	7	7	7	8	8
b	23	23	29	37	44
Ø c	48	48	60	75	90
Ø d	20 +0.1	20 +0.1	30 +0.1	36 +0.1	46 +0.1
R **e**	3,5	3,5	3,5	4	4

VT7



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

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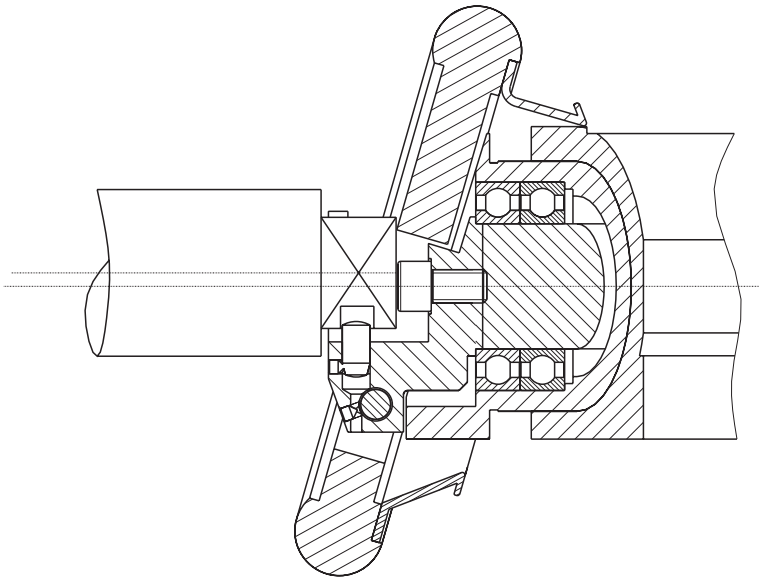
Changes reserved (a)

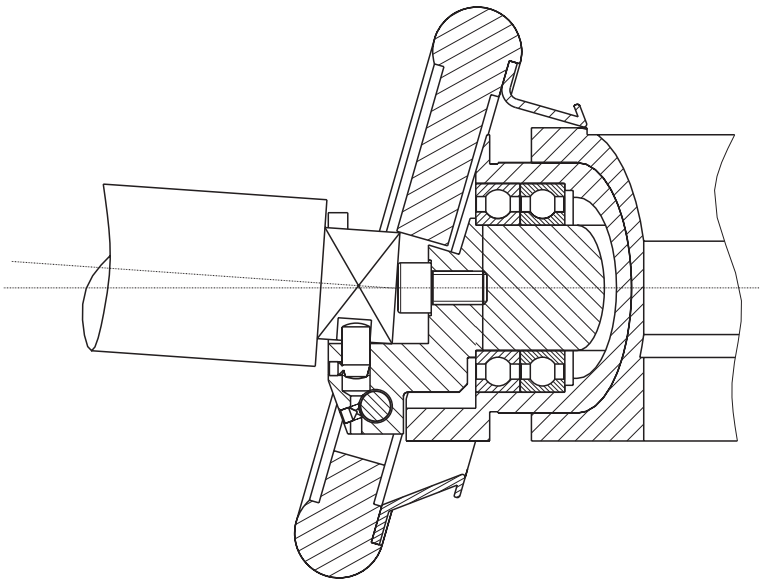
Comment to operation of chucks

BOSCHERT

For chucks with axial-movement with driving 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.

Info
5.50

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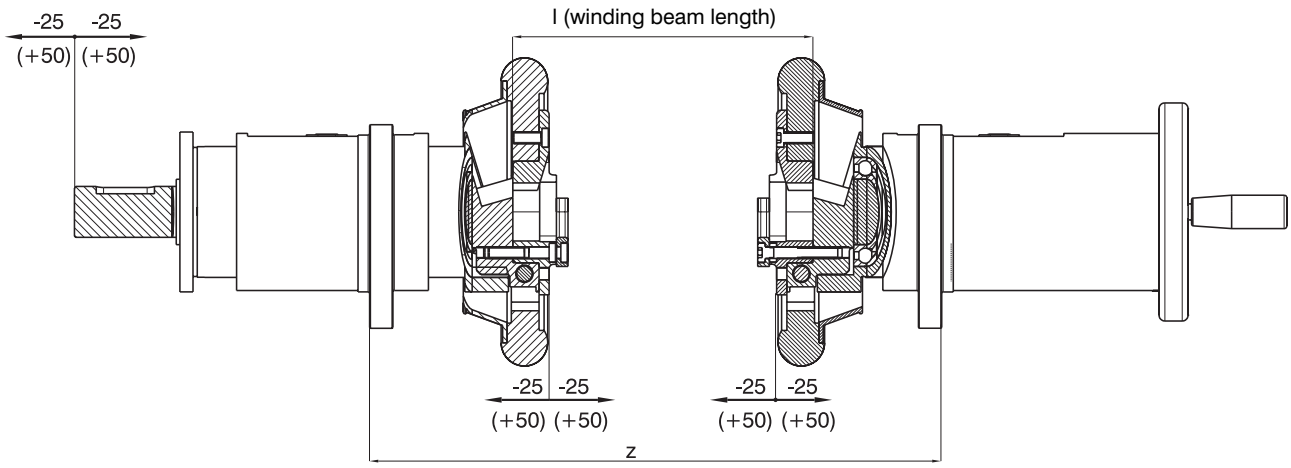
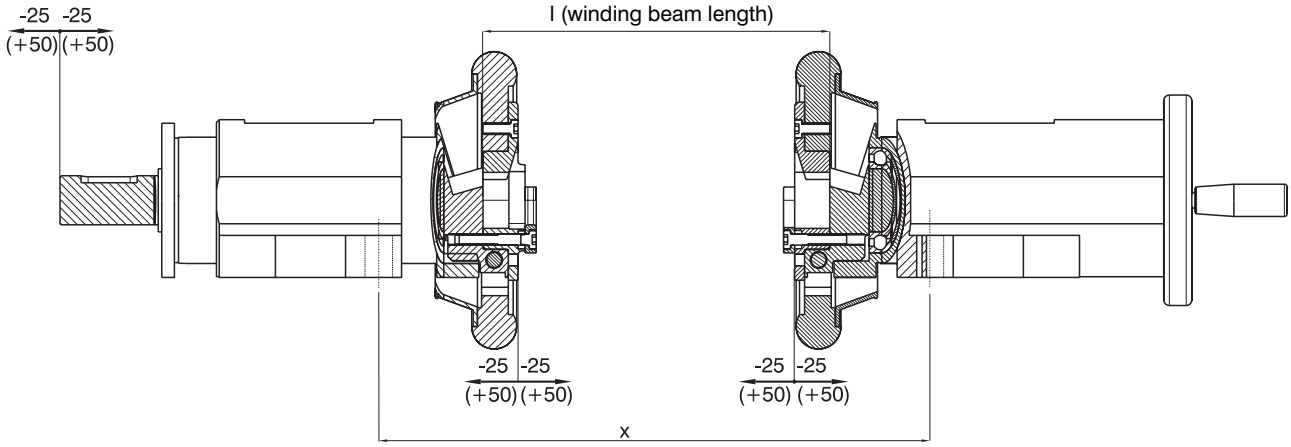
Changes reserved

Fixing Positions
Sliding-Chuck

flange mounted chuck



foot mounted chuck



50 mm adjustment

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

100 mm adjustment

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

x = fixing distance

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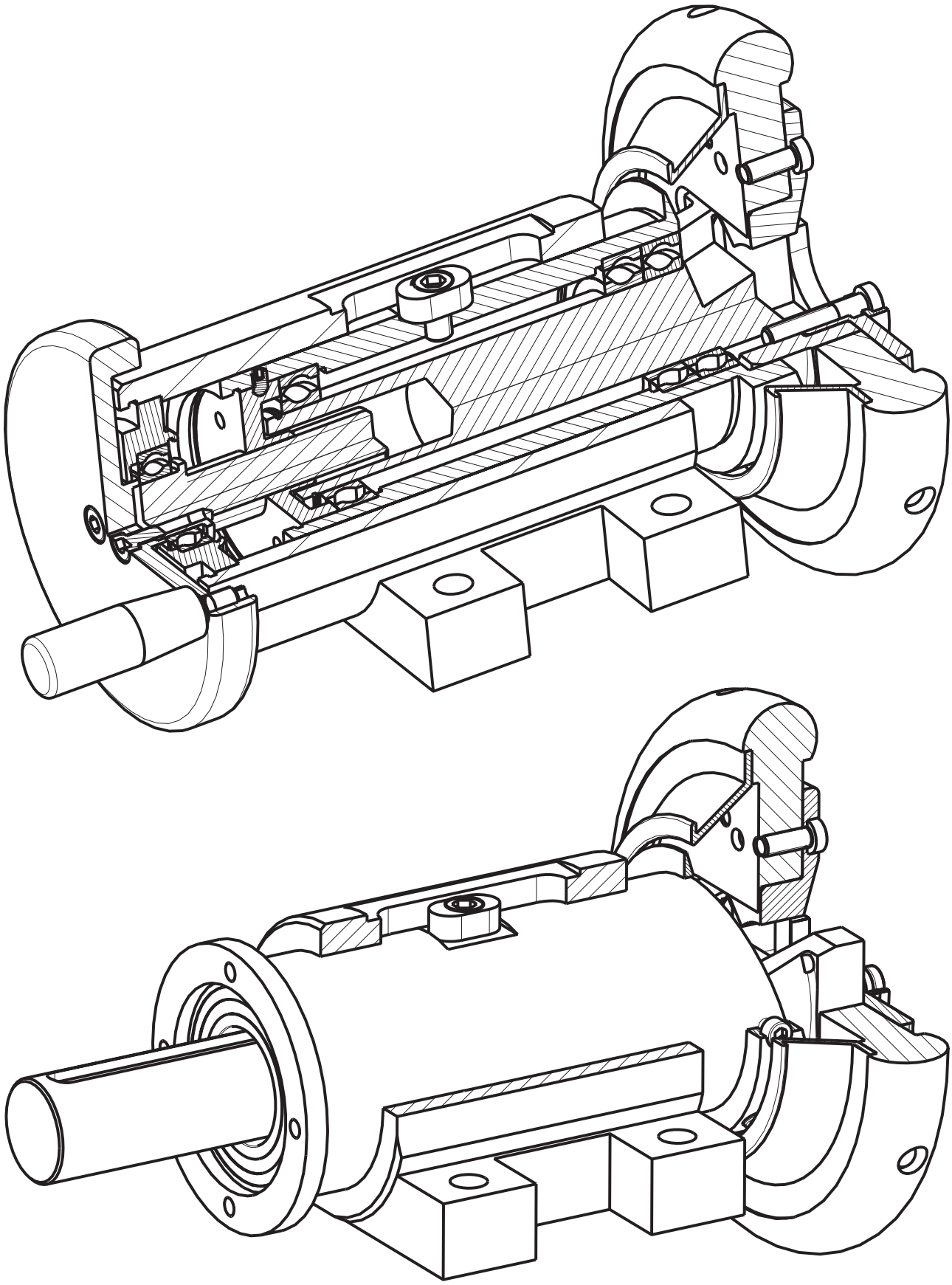
Changes reserved

Construction Sliding-Chuck

BOSCHERT



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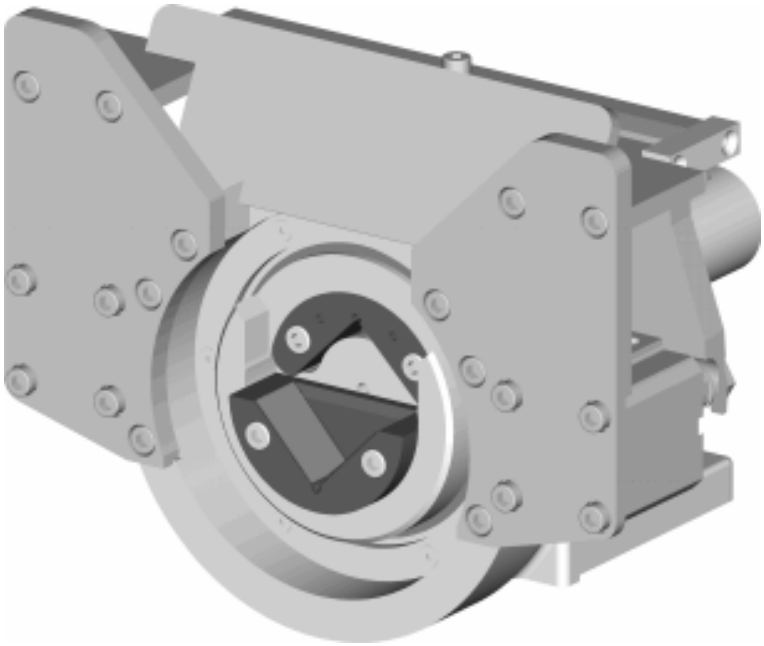
Changes reserved

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



Please note:
This chuck is interchangeable with the chuck 30-40 type C or 30-40 type VT.

Beam weight max.: max. 1600 kg **(max. 3530 lbs)**
Square bar: **40 mm (1.5748“)**
Torque: **350 Nm (250 ft/lb)**

Checkbox

Options				Info
VT-insert:	☐ VT2			
Hardness:	☐ 58 HRC	☐ special HRC		4.23
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ standard shaft	☐ special	4.23
Add. parts:	☐ without	☐ clutch	☐ drive	
	☐ brake			6.00
Speed:	☐ <50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

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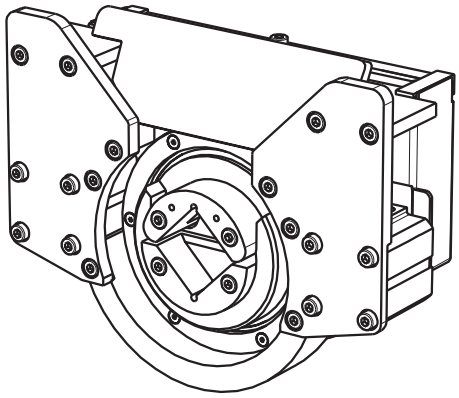
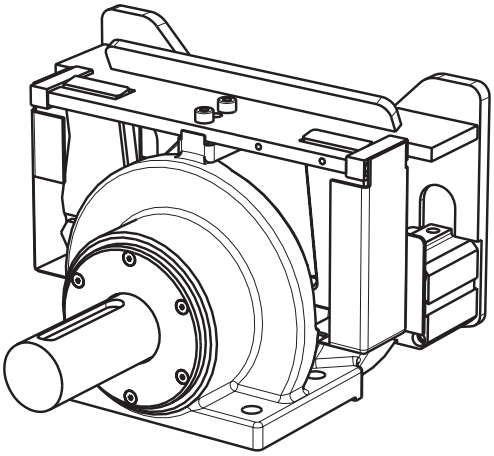
(a) Changes reserved

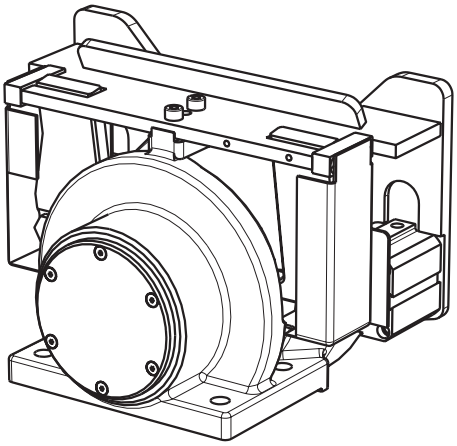
Boschert-Chuck foot mounted A40

Boschert-Chuck A40

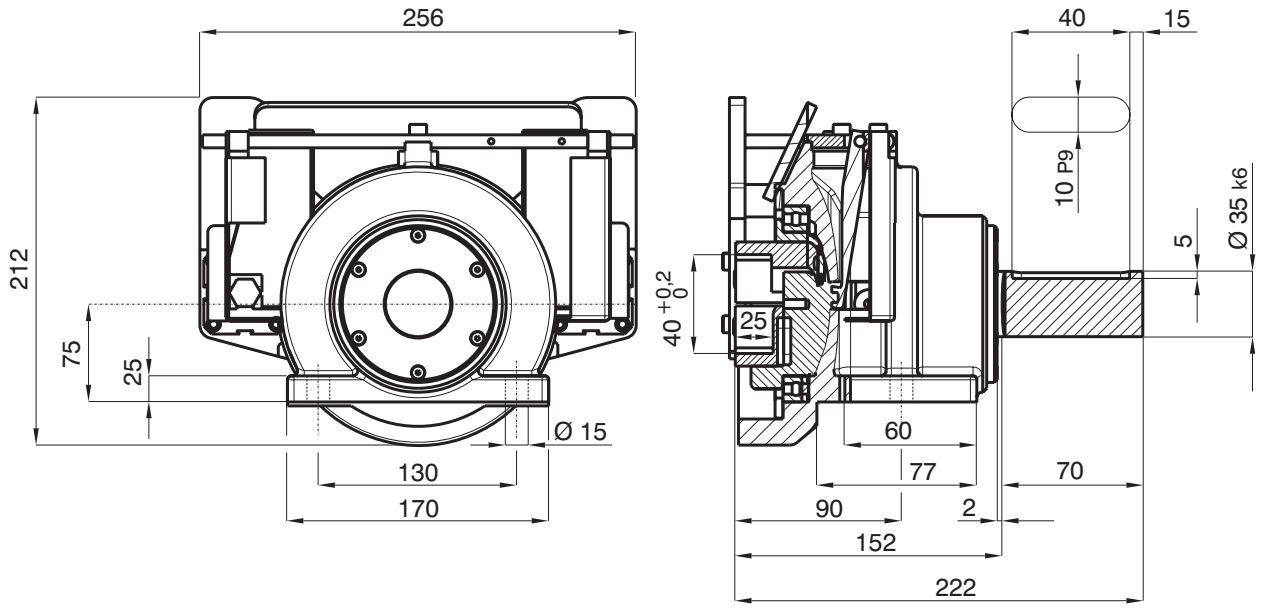




STW A40
chuck with shaft end



STO A40
chuck without shaft end



4.21

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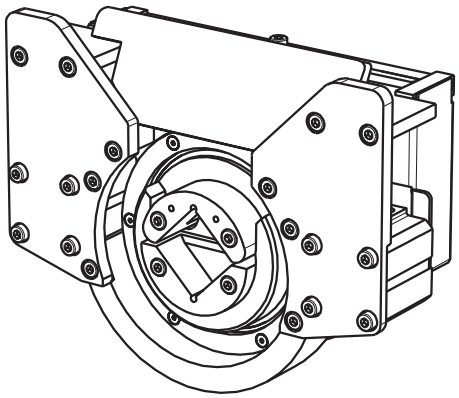
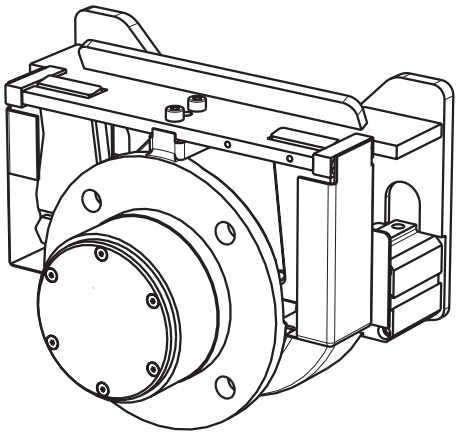
Changes reserved (a)

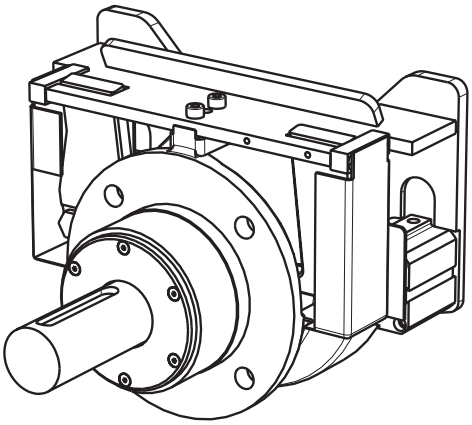
Boschert-Chuck
flange mounted chuck A40

Boschert-Chuck A40

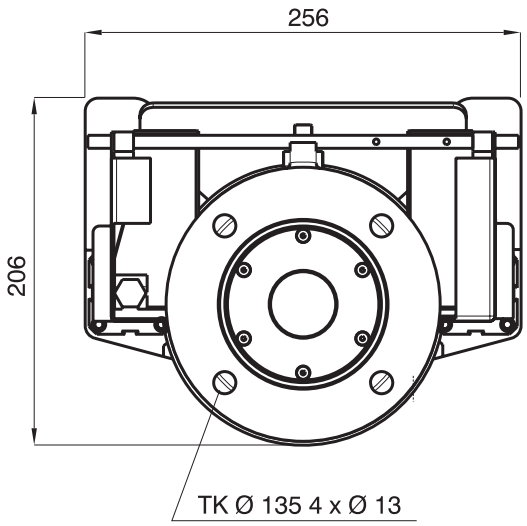




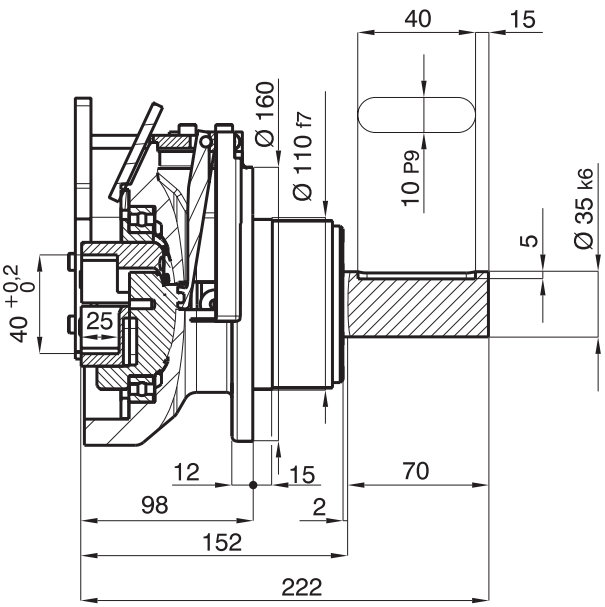
FLO A40
chuck without shaft end



FLW A40
chuck with shaft end



TK = bolt hole circle



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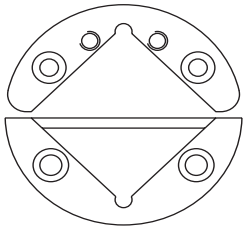
Changes reserved

Boschert-Chuck
Options A40

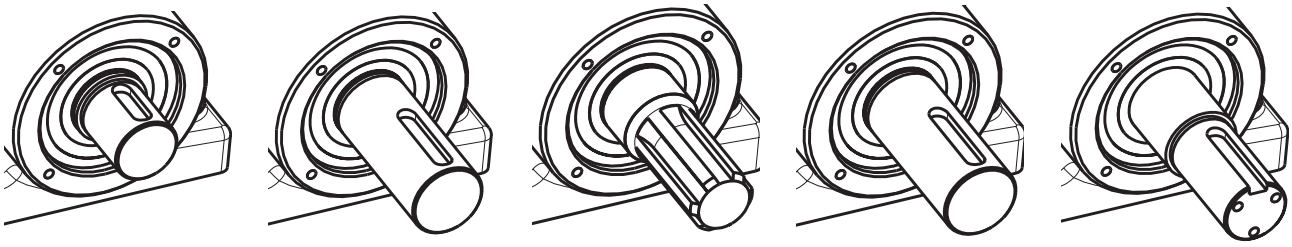
VT-insert



VT 2

Info
5.30

Shaft ends



ESB | ESB i | DSB | RU | HRU

Info
5.50

Special shaft ends on customer request

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

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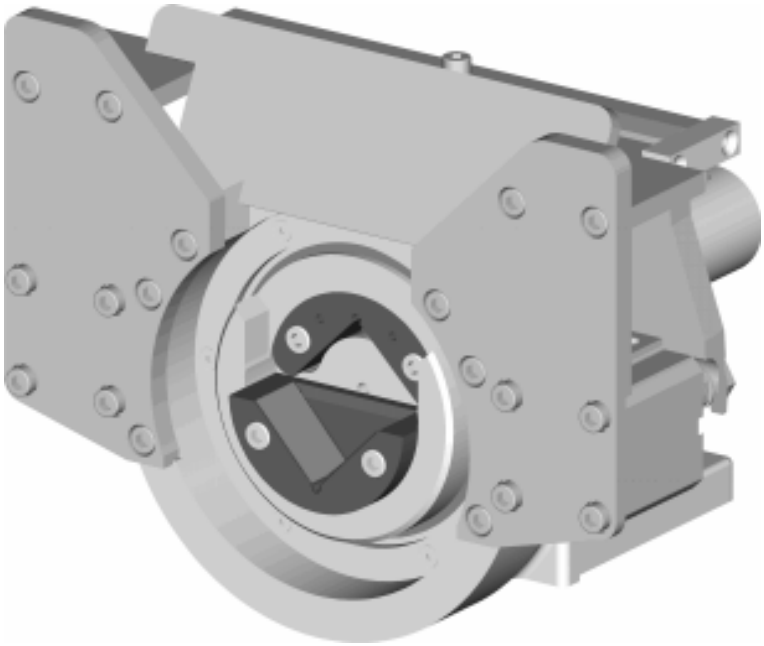
Changes reserved

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



Please note:
This chuck is interchangeable with the chuck 40-50 type C or 40-50 type VT.

Beam weight max.: **max. 2800 kg** **(max. 6170 lbs)**
Square bar: ☐ **40 - 50 mm (1.5748“ - 1.9658“)**
Torque: **1100 Nm (795.74 ft/lb)**

Checkbox !

Options						Info
VT-insert:	☐	VT2				
Hardness:	☐	58 HRC	☐	special		4.33
Model:	☐	pillow block	☐	flange chuck		
Journal shaft end:	☐	without	☐	standard shaft	☐ special	4.33
Add. parts:	☐	without	☐	clutch	☐ drive	
	☐	brake				6.00
Speed:	☐	<50 rpm	☐	50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

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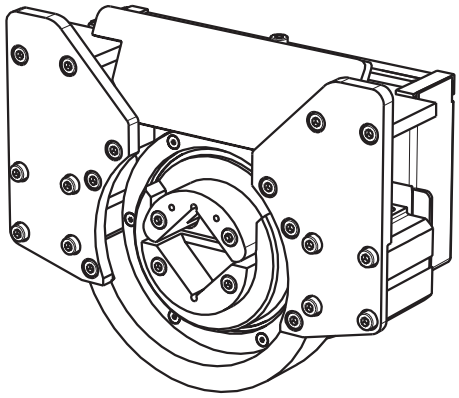
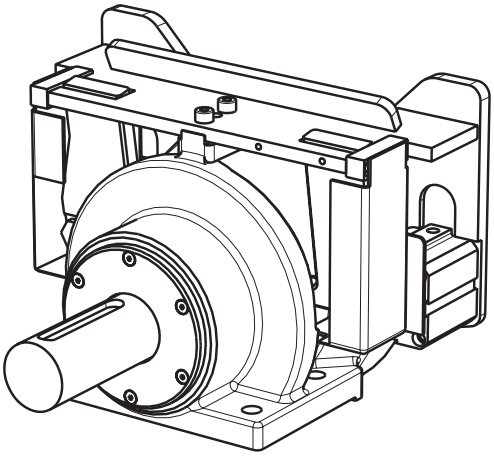
(a) Changes reserved

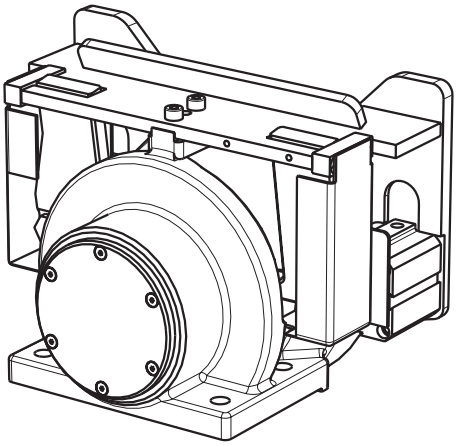
Boschert-Chuck
foot mounted chuck A50

Boschert-Chuck A50

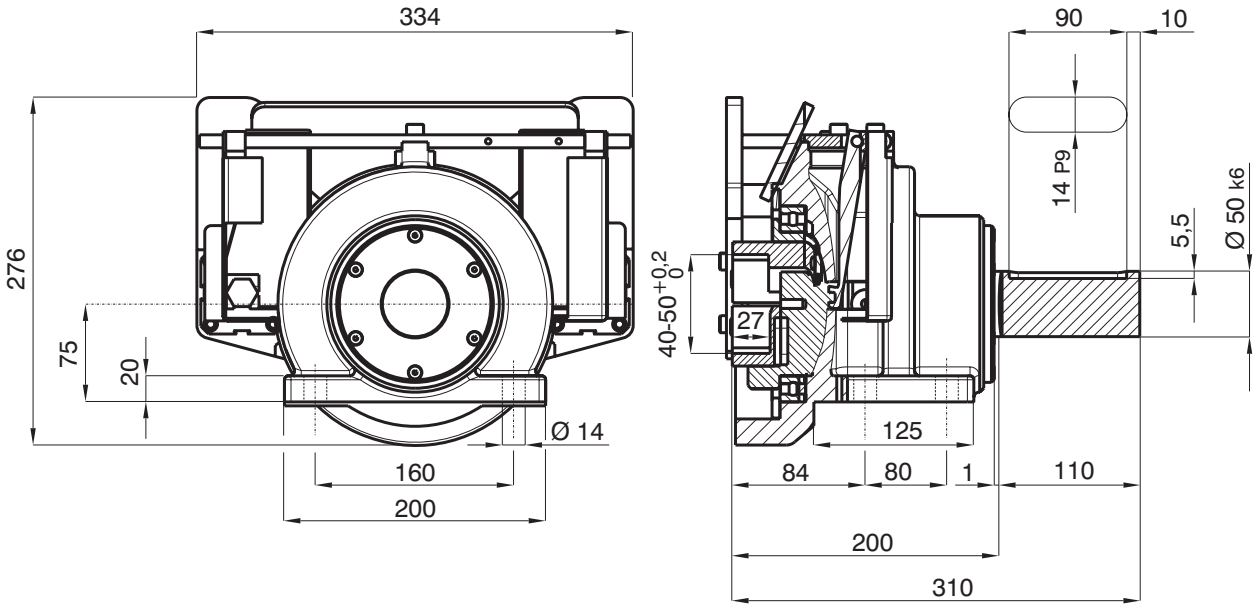




STW A50
chuck with shaft end



STO A50
chuck without shaft end



4.31

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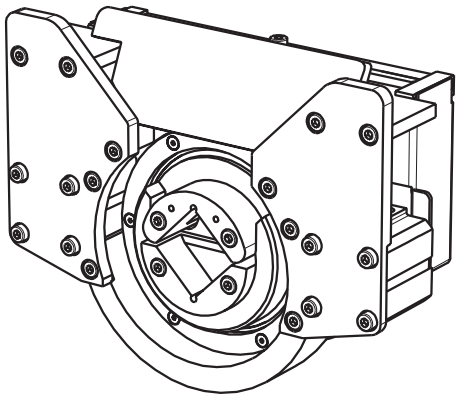
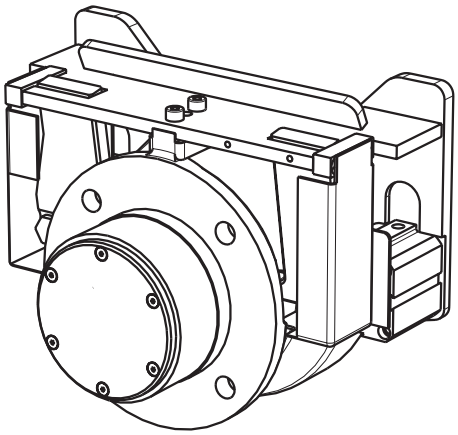
Changes reserved (a)

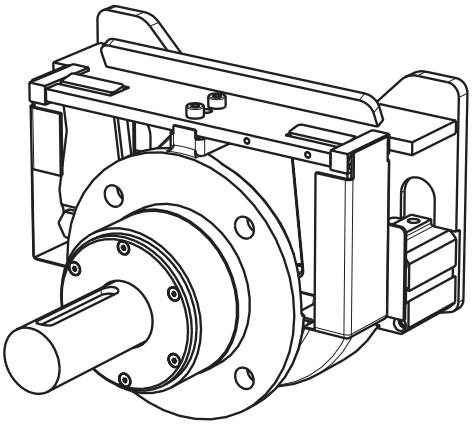
Boschert-Chuck
flange mounted chuck A50

Boschert-Chuck A50

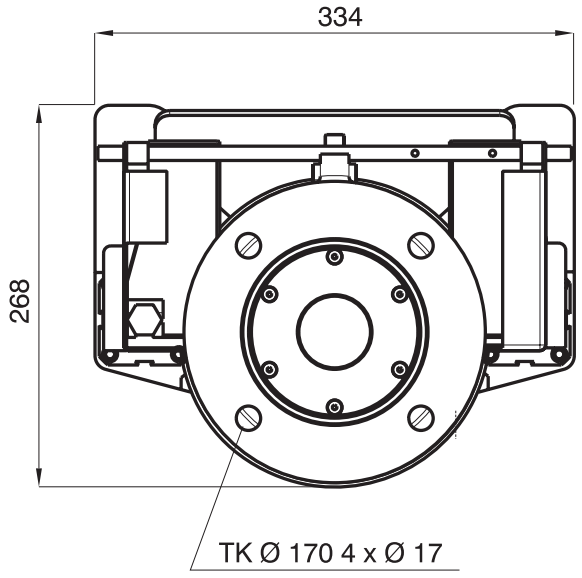




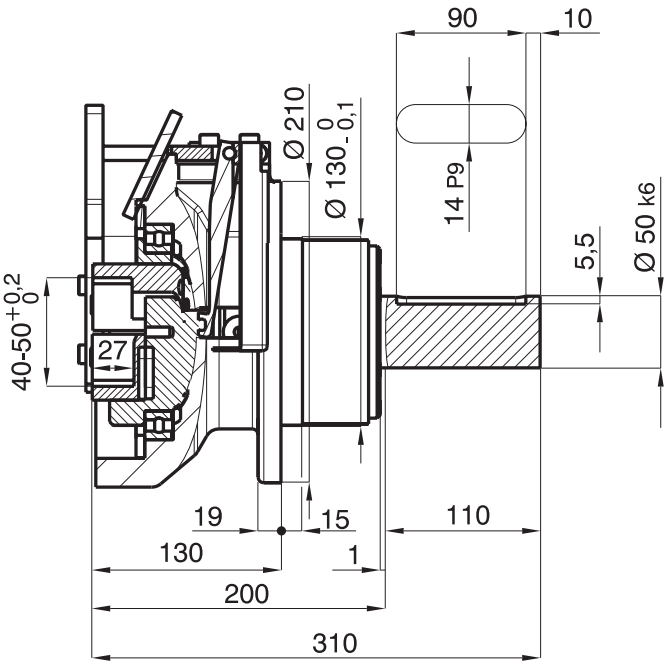
FLO A50
chuck without shaft end



FLW A50
chuck with shaft end



TK = bolt hole circle



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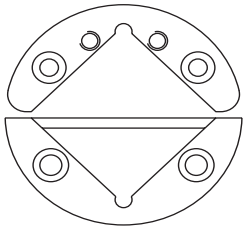
Changes reserved

Boschert-Chuck
Options A50

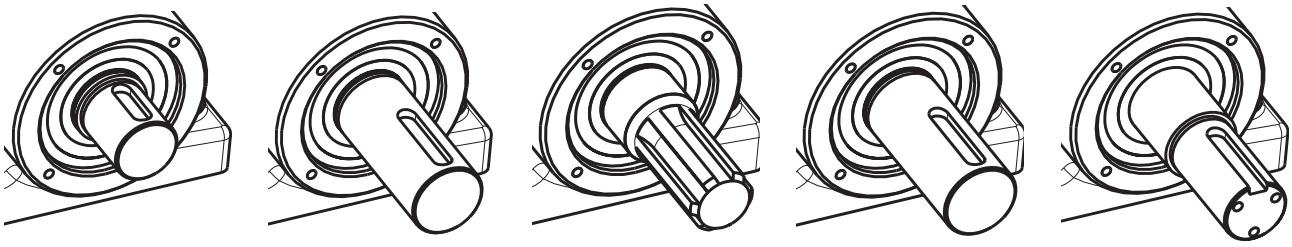
VT-insert



VT 2

Info
5.30

Shaft ends



ESB | ESB i | DSB | RU | HRU

Info
5.50

Special shaft end on customer request

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

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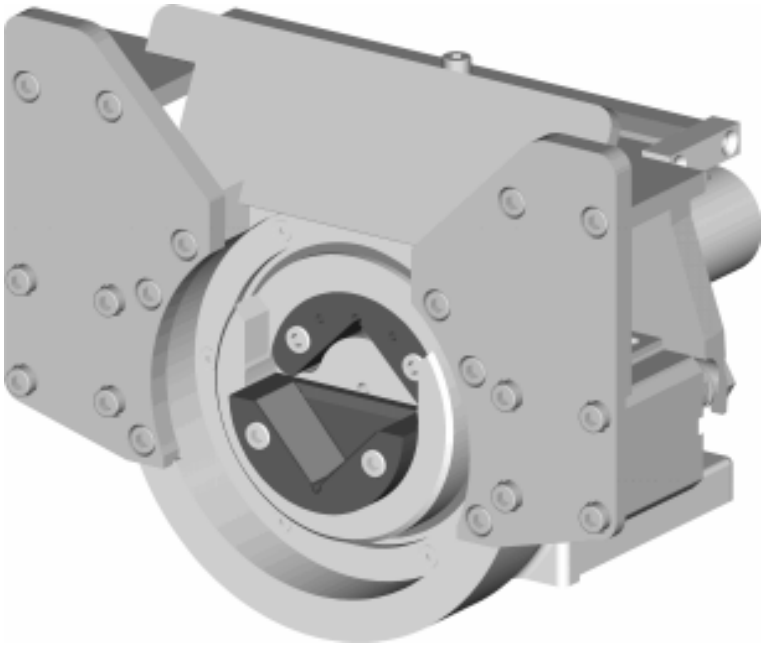
Changes reserved (a)

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



Please note:
This chuck is interchangeable with the chuck 50-80 type C or 50-80 type VT.

Beam weight max.: **max. 7000 kg (max. 15430 lbs)**
Square bar: **50 - 80 mm (1.9685“ - 3.1496“)**
Torque: **2350 Nm (1700 ft/lb)**

Checkbox !

Options				Info
VT-insert:	☐ VT2			
Hardness:	☐ 58 HRC	☐ special HRC		4.43
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ standard shaft	☐ special	4.43
Add. parts:	☐ without	☐ clutch	☐ drive	
	☐ brake			6.00
Speed:	☐ <50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

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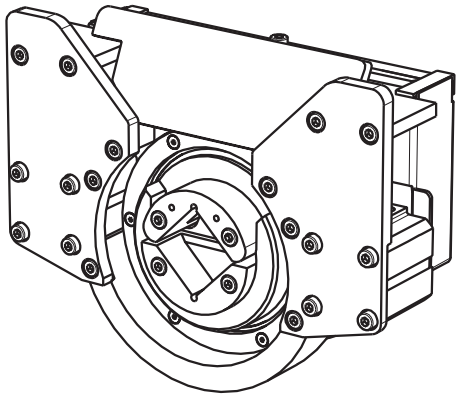
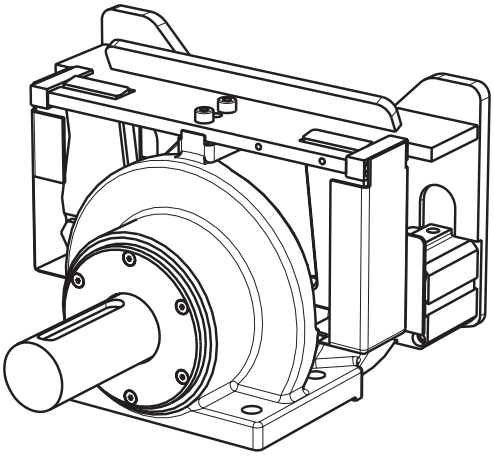
(a) Changes reserved

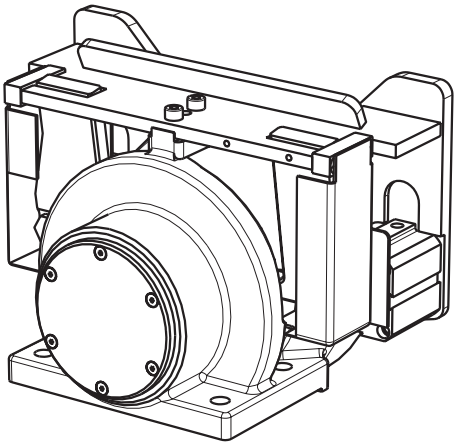
Boschert-Chuck
foot mounted chuck A80

Boschert-Chuck A80

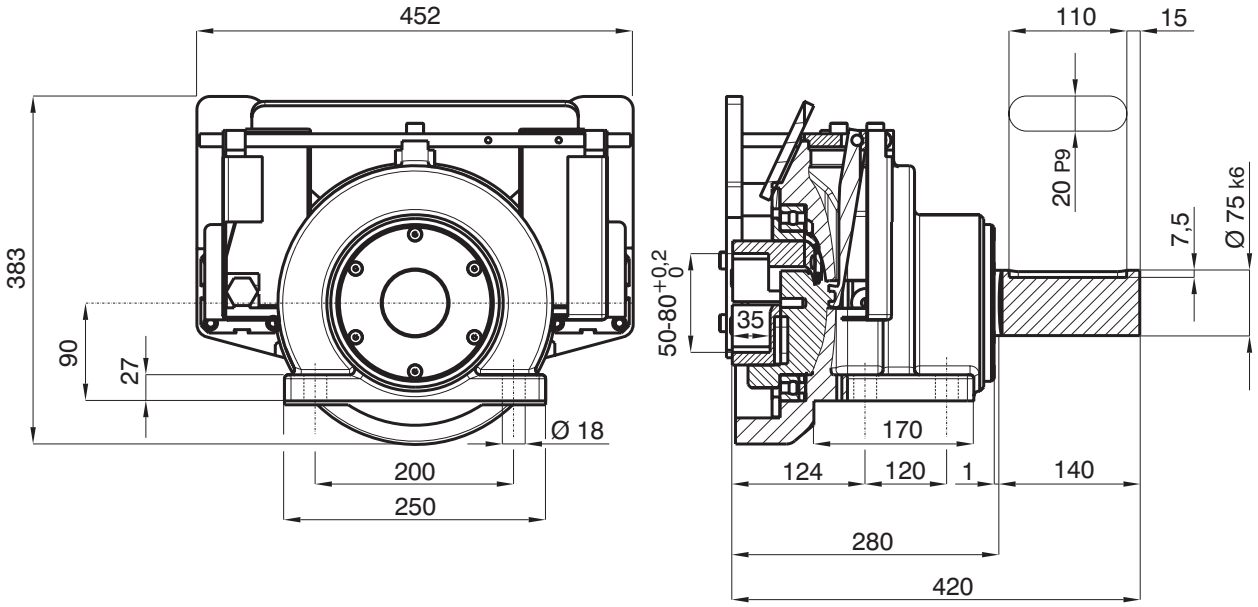




STW A80
chuck with shaft end



STO A80
chuck without shaft end



4.41

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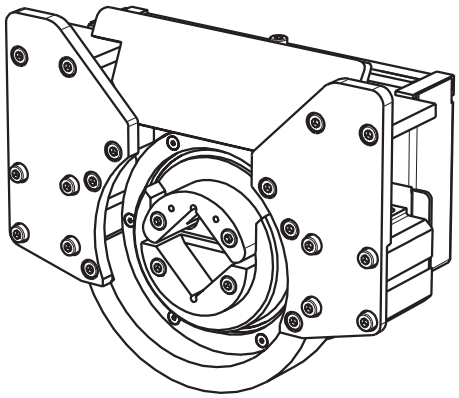
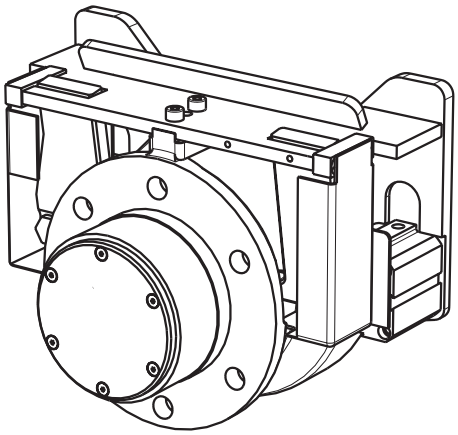
Changes reserved (a)

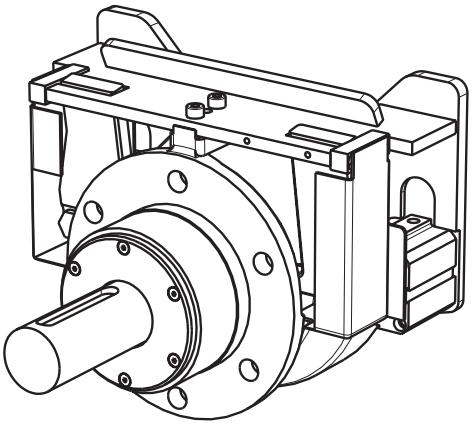
Boschert-Chuck
flange mounted chuck A80

Boschert-Chuck A80

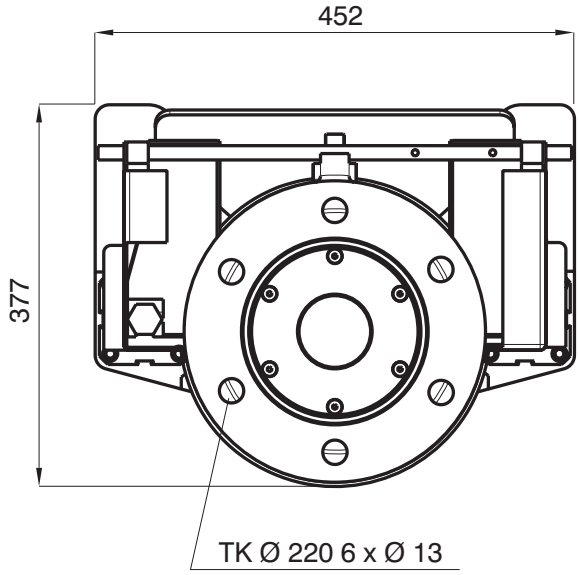




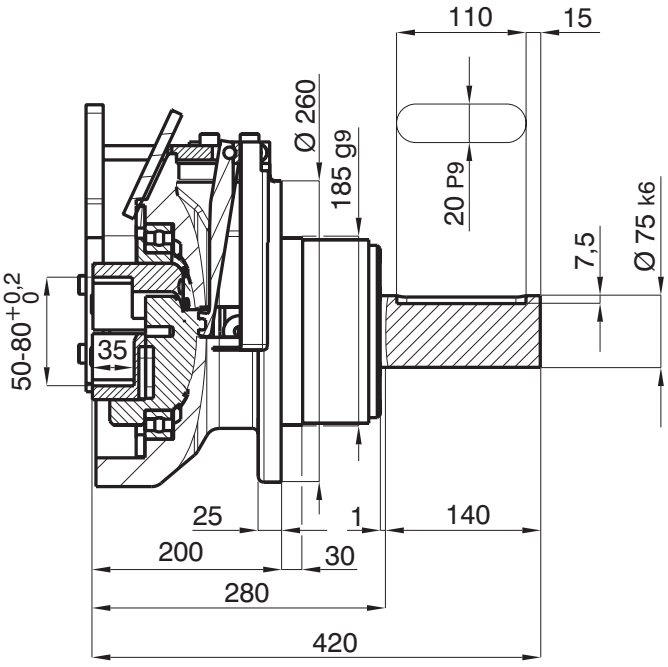
FLO A80
chuck without shaft end



FLW A80
chuck with shaft end



TK = bolt hole circle



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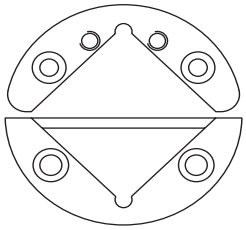
(a) Changes reserved

Boschert-Chuck
Options A80

BOSCHERT

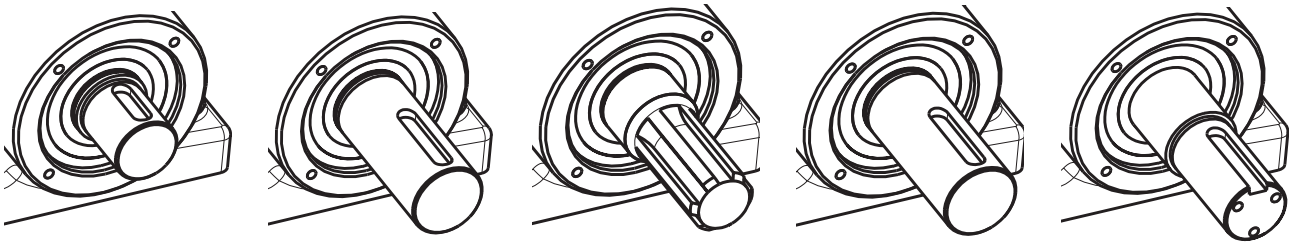
VT-insert



VT 2

Info
5.30

Shaft ends



ESB | ESB i | DSB | RU | HRU

Info
5.50

Special shaft ends on customer request

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

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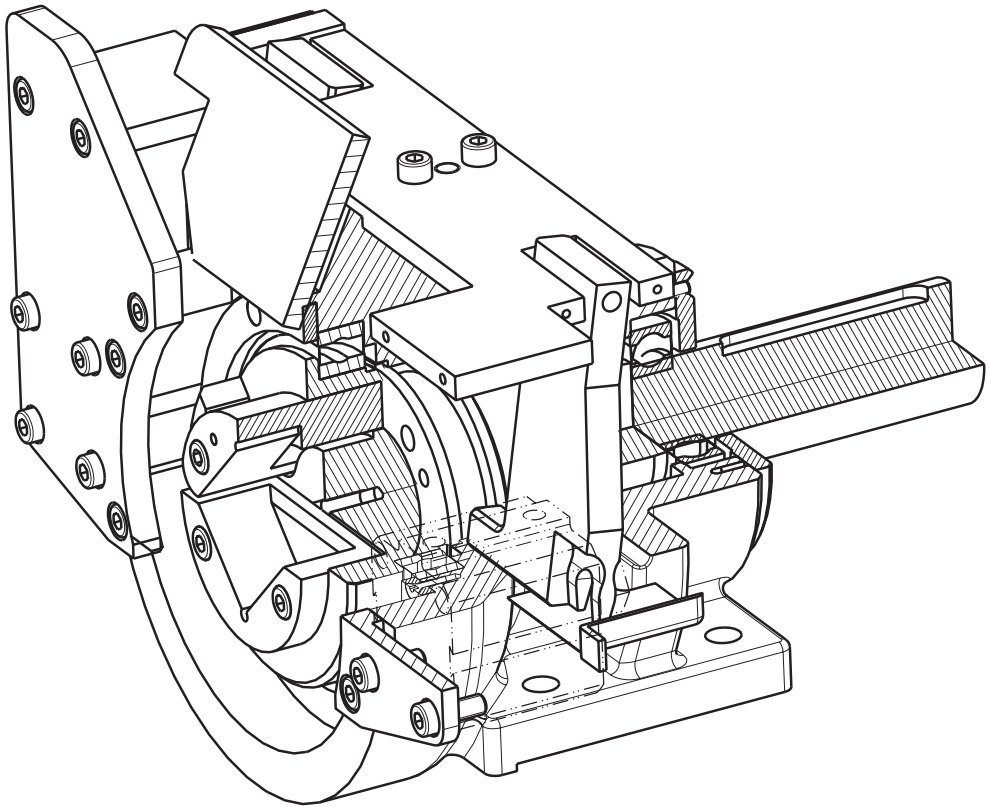
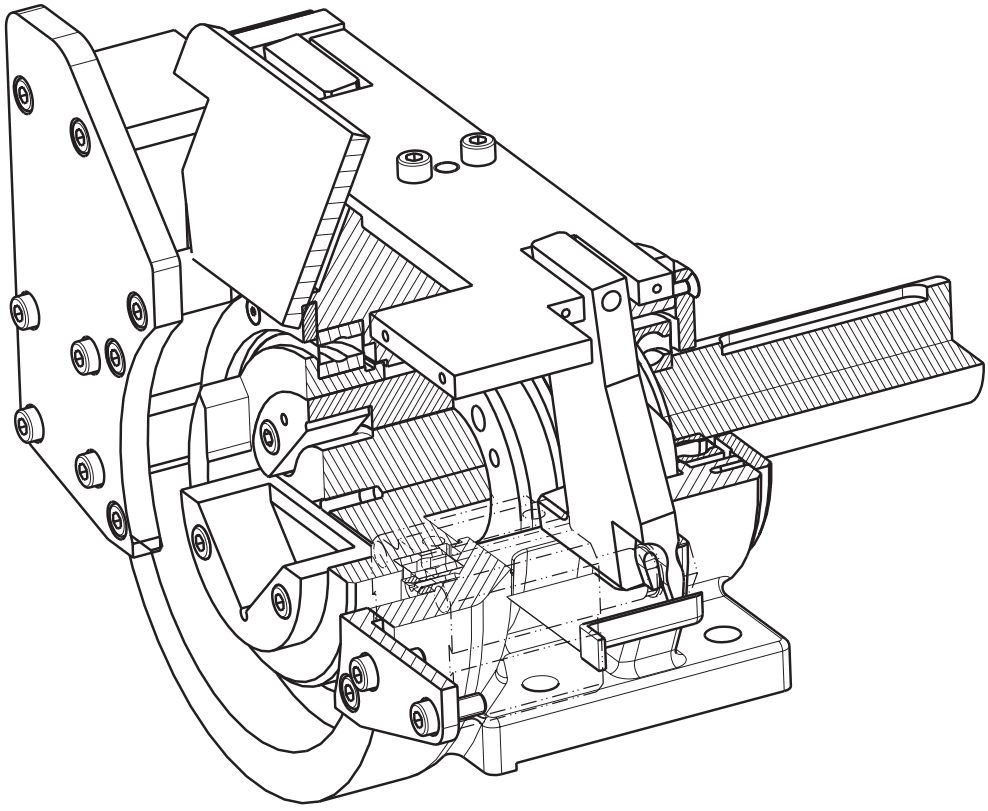
Changes reserved

Construction
Chuck type A



Chuck type A closed



Chuck type A open

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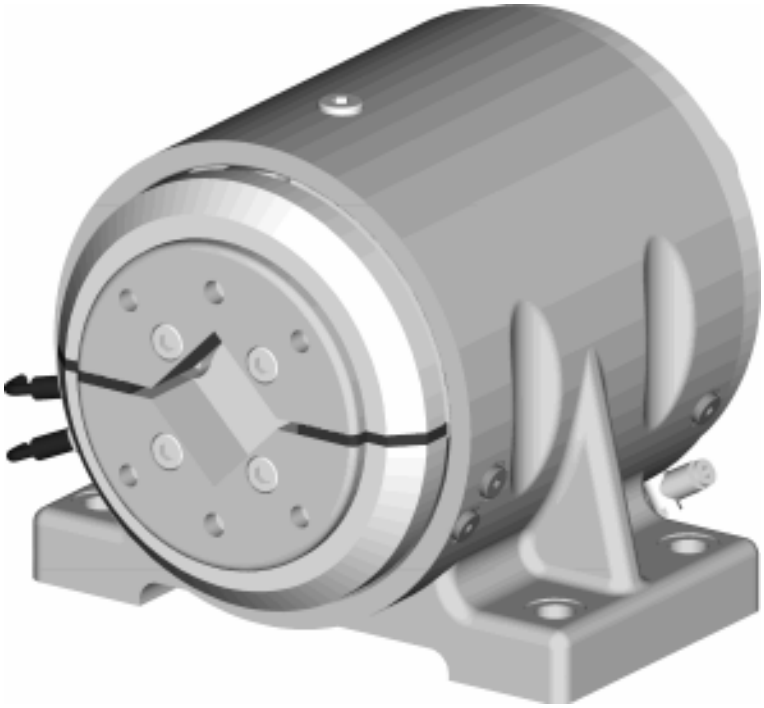
Changes reserved

4.60 Boschert-Chuck P40

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



Beam weight max.: **max. 1600 kg** **(max. 3530 lbs)**
Square bar: ☐ **40 mm (1.5748“)**
Torque: **350 Nm (250 ft/lb)**

Max. beamweight and torque just for square bar 50 mm if you’re working with VT2-inserts.
Beamweight and torque are lower when working with a square bar smaller than 50 mm.

Checkbox !

Options				Info
VT-insert:	☐ VT2	☐ VT7		
Hardness:	☐ 52 HRC	☐ 58 HRC	☐ special HRC	4.63
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ standard shaft	☐ special	4.63
Add. parts:	☐ without	☐ clutch	☐ drive	
	☐ brake			6.00
Speed:	☐ <50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm	

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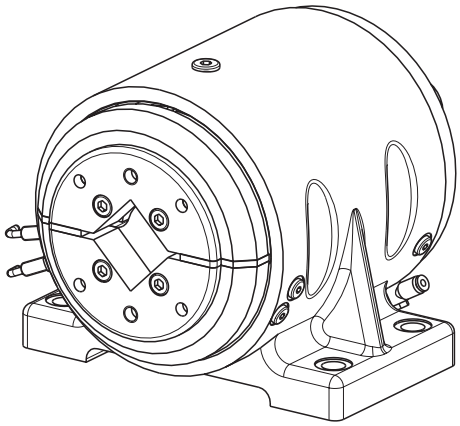
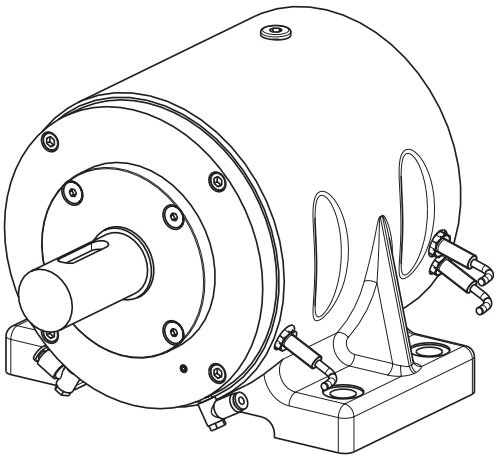
(a) Changes reserved

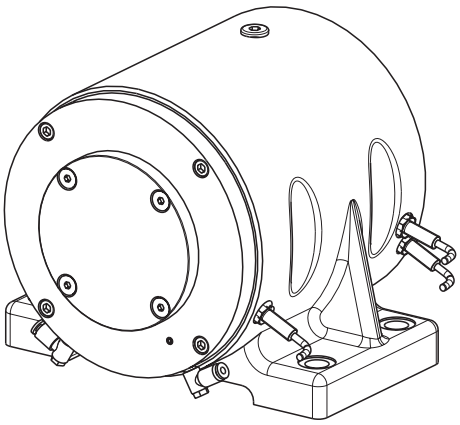
Boschert-Chuck
foot mounted chuck P40

Boschert-Chuck P40

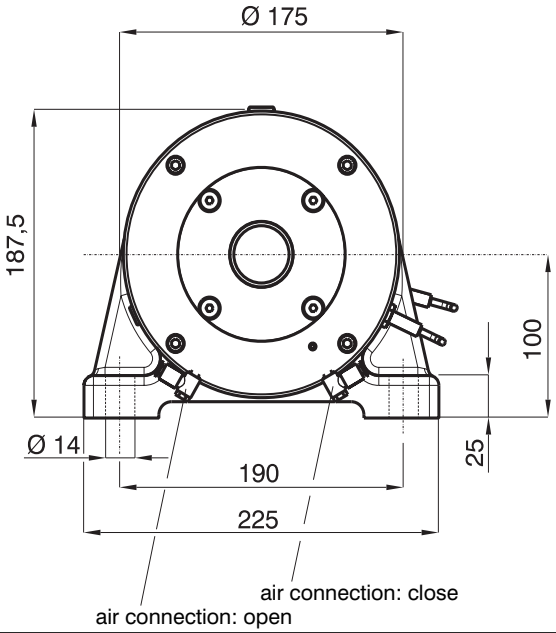


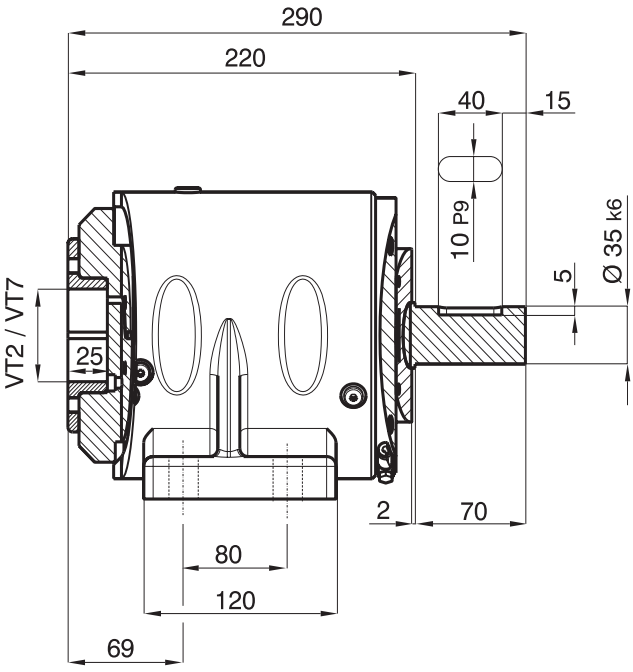


STW P40
chuck with shaft end



STO P40
chuck without shaft end





4.61

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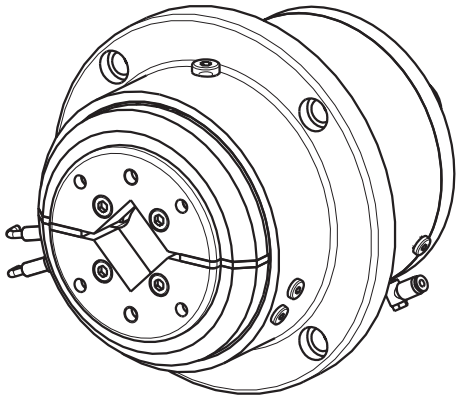
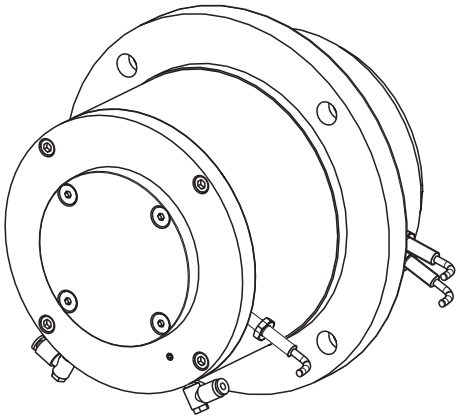
Changes reserved

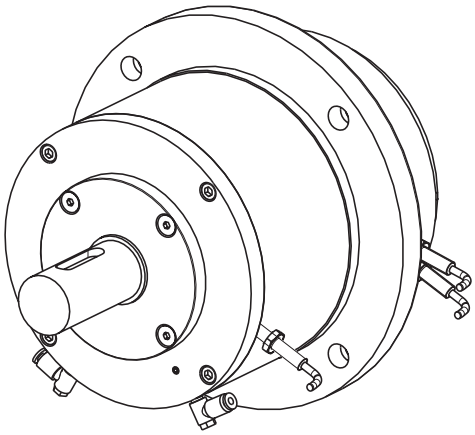
Boschert-Lager
flange mounted chuck P40

Boschert-Chuck P40

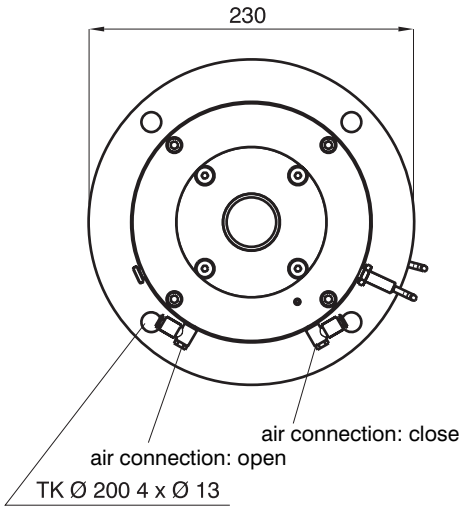


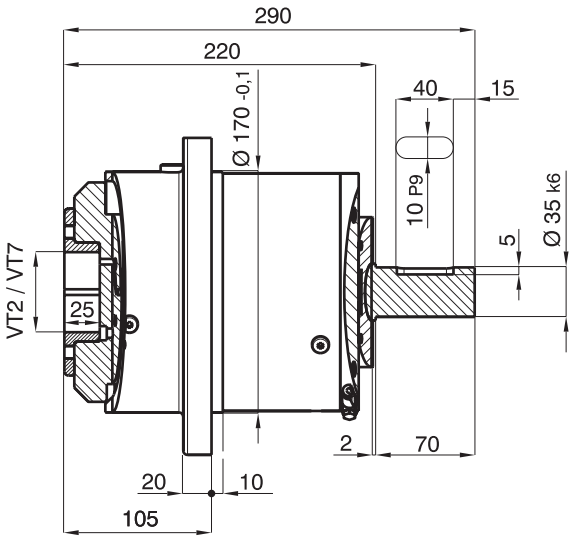


FLO P40
chuck without shaft end



FLW P40
chuck with shaft end





TK = bolt hole circle

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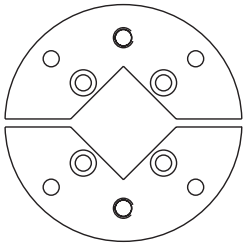
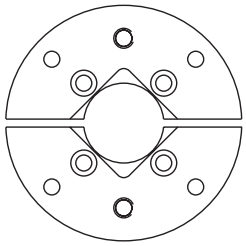
Changes reserved

Boschert-Chuck
Options P40

VT-insert



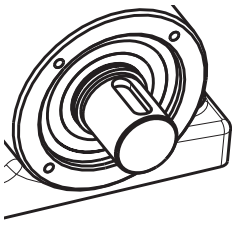
VT 2



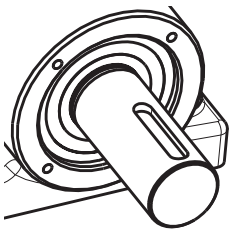
VT 7

Info
5.30

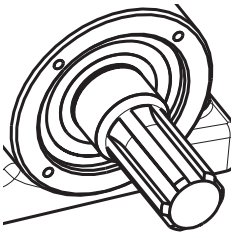
Shaft ends



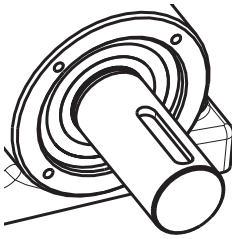
ESB



ESB i



DSB



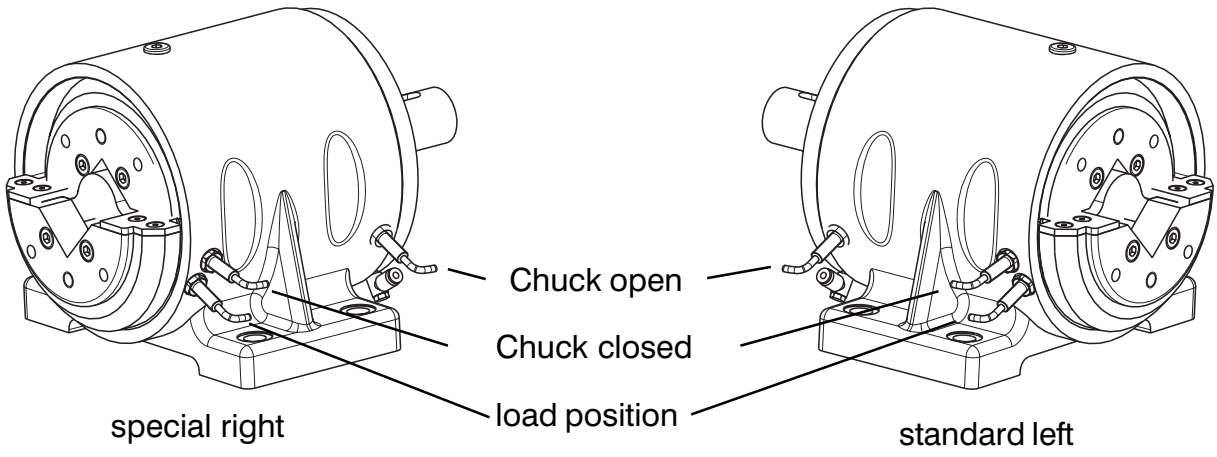
RU

Special shaft end on customer request

Info
5.50

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

Proximity sensor



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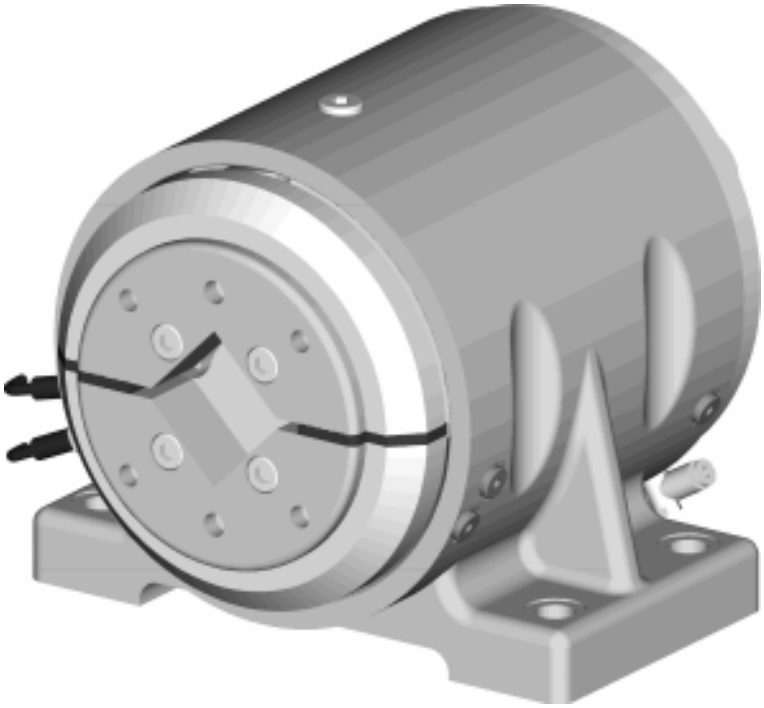
Changes reserved (a)

4.70 Boschert-Chuck P50

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



Beam weight max.: max. 2800 kg **(max. 6170 lbs)**
Square bar: ☐ **50 mm (1.9685“)**
Torque: **1100 Nm (800 ft/lb)**

Max. beamweight and torque just for square bar 50 mm if you’re working with VT2-inserts.
Beamweight and torque are lower when working with a square bar smaller than 50 mm.

Checkbox !

Options				Info
VT-insert:	☐ VT2	☐ VT7		
Hardness:	☐ 52 HRC	☐ 58 HRC	☐ special HRC	4.73
Model:	☐ pillow block	☐ flange chuck		
Journal shaft end:	☐ without	☐ standard shaft	☐ special	4.73
Add. parts:	☐ without	☐ clutch	☐ drive	
	☐ brake			6.00
Speed:	☐ <50 rpm	☐ 50 – 1000 rpm	☐ >1000 rpm	

Inquiry- and order form see chapter 9.00

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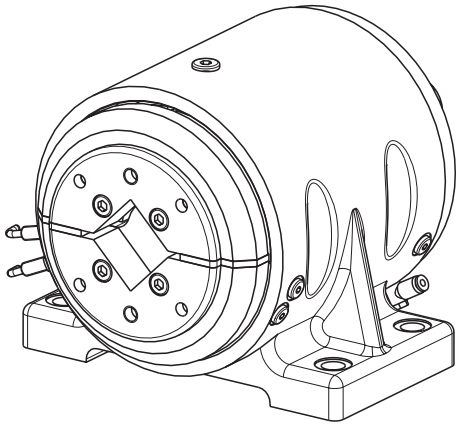
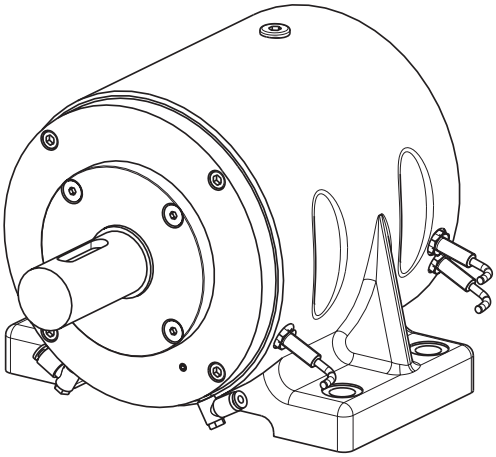
(a) Changes reserved

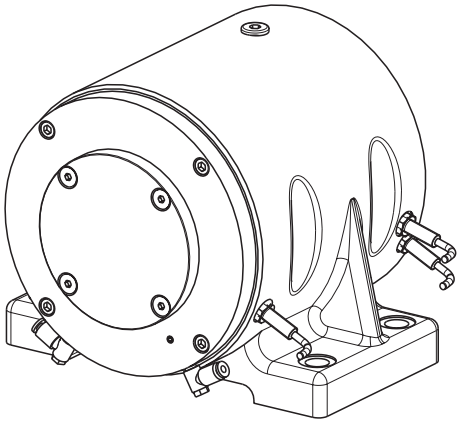
Boschert-Chuck
foot mounted chuck P50

Boschert-Chuck P50

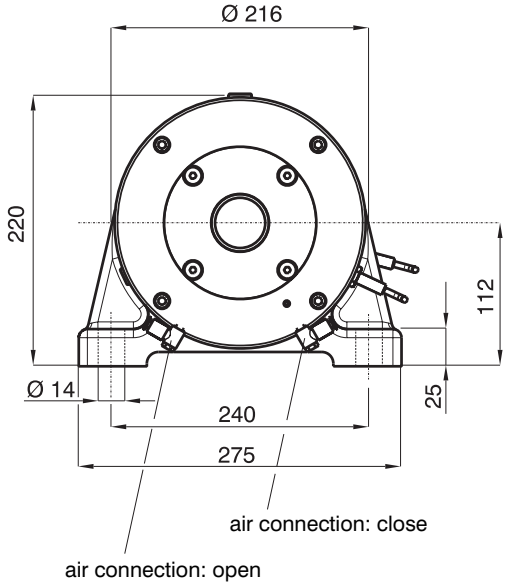


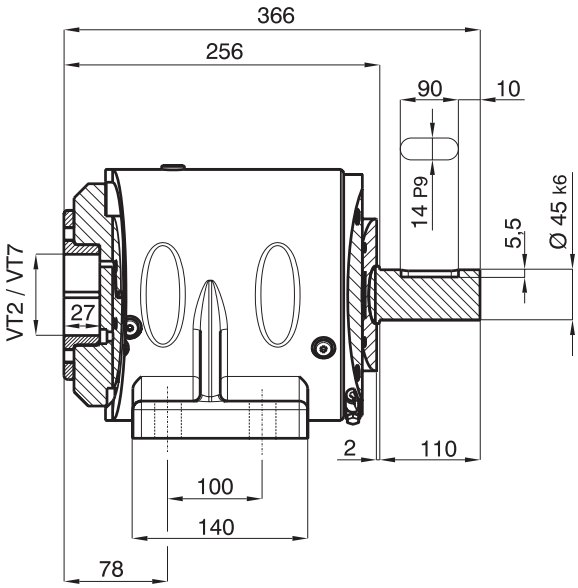


STW P50
chuck with shaft end



STO P50
chuck without shaft end





4.71

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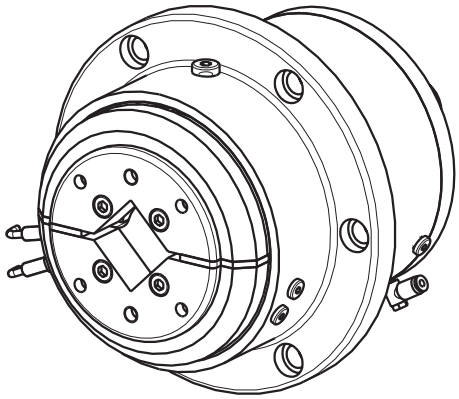
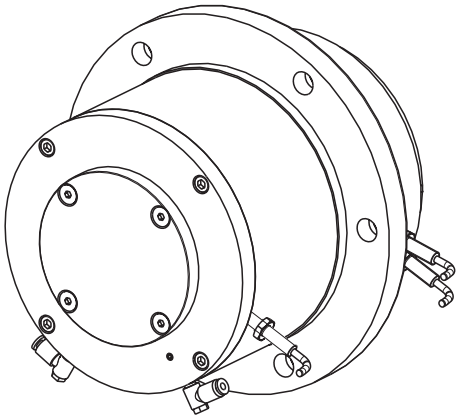
Changes reserved

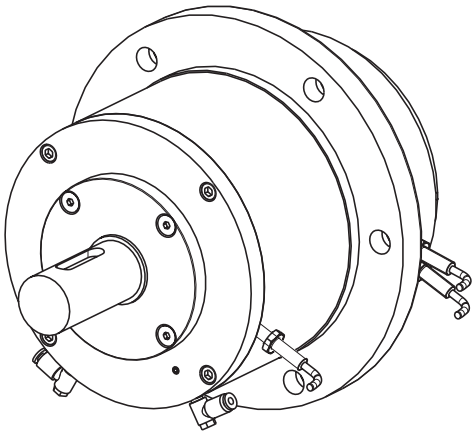
Boschert-Chuck
flange mounted chuck P50

Boschert-Chuck P50

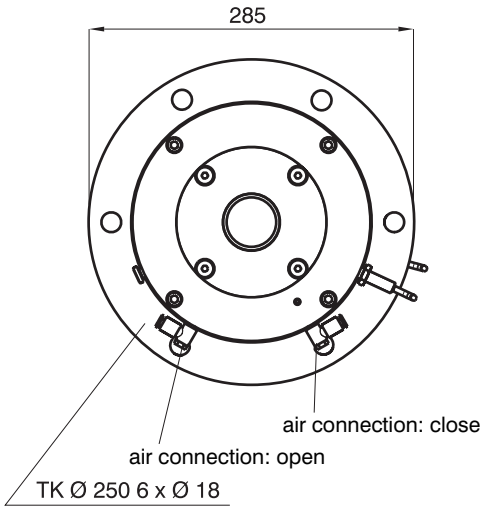


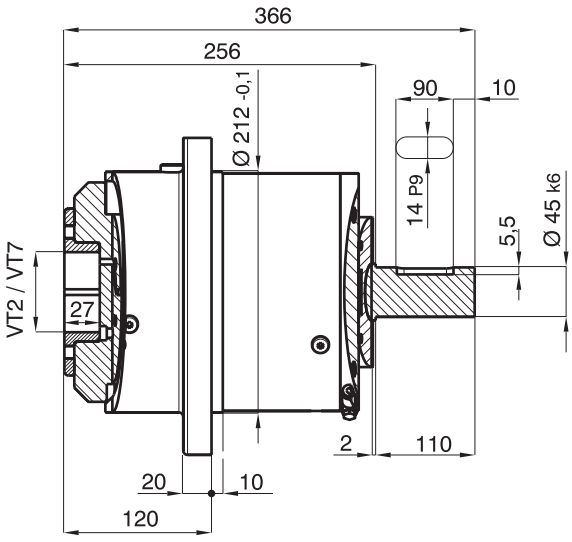


FLO P50
chuck without shaft end



FLW P50
chuck with shaft end





TK = bolt hole circle

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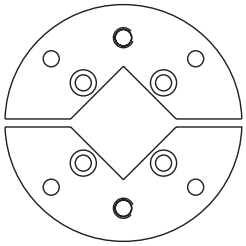
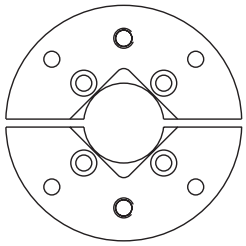
(a) Changes reserved

Boschert-Chuck
Options P50

VT-insert



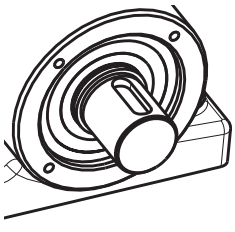
VT 2



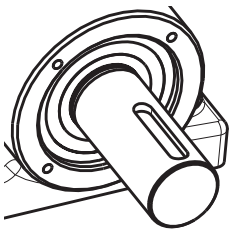
VT 7

Info
5.30

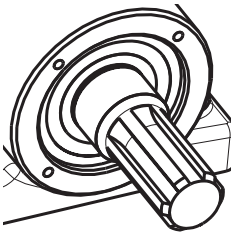
Shaft ends



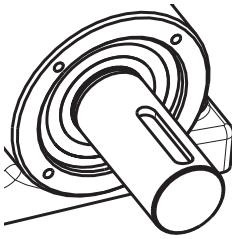
ESB



ESB i



DSB



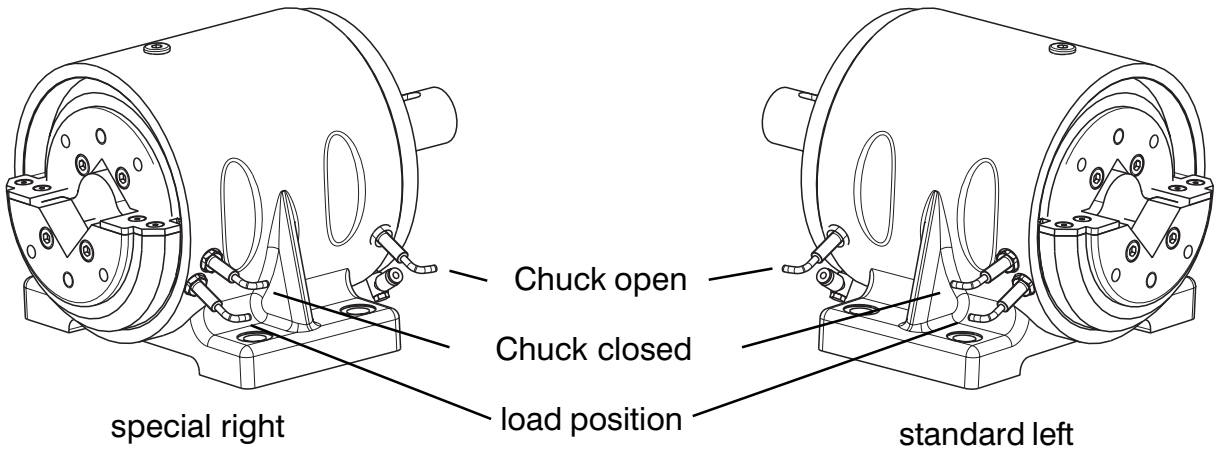
RU

Special shaft ends on customer request

Info
5.50

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

Proximity sensor



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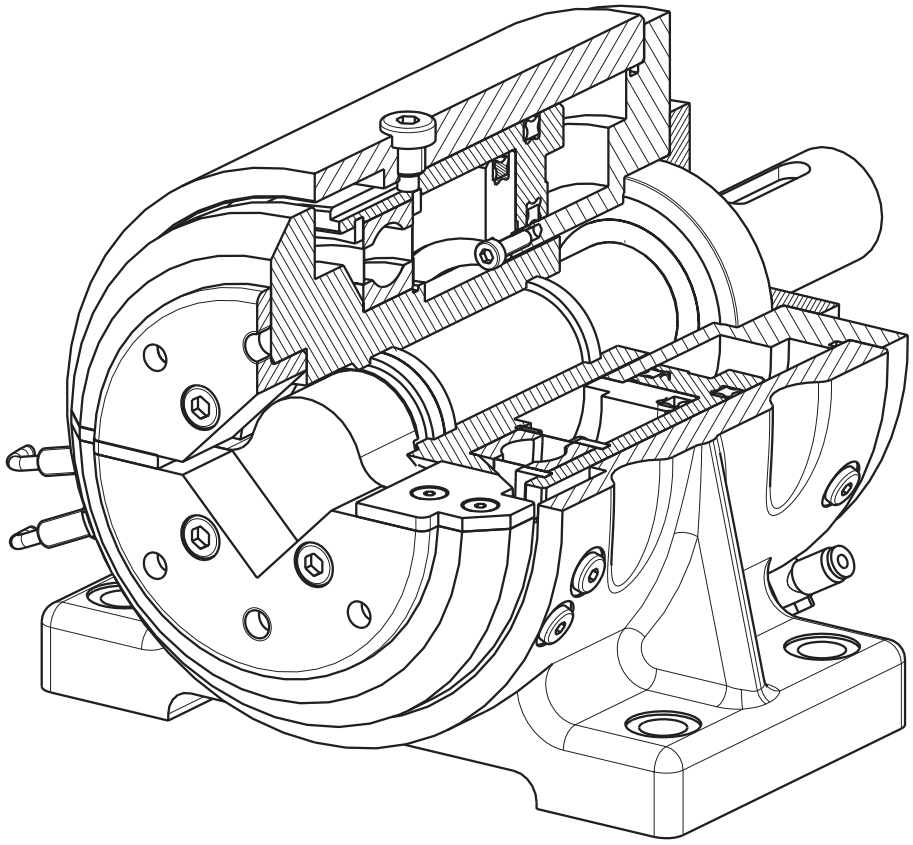
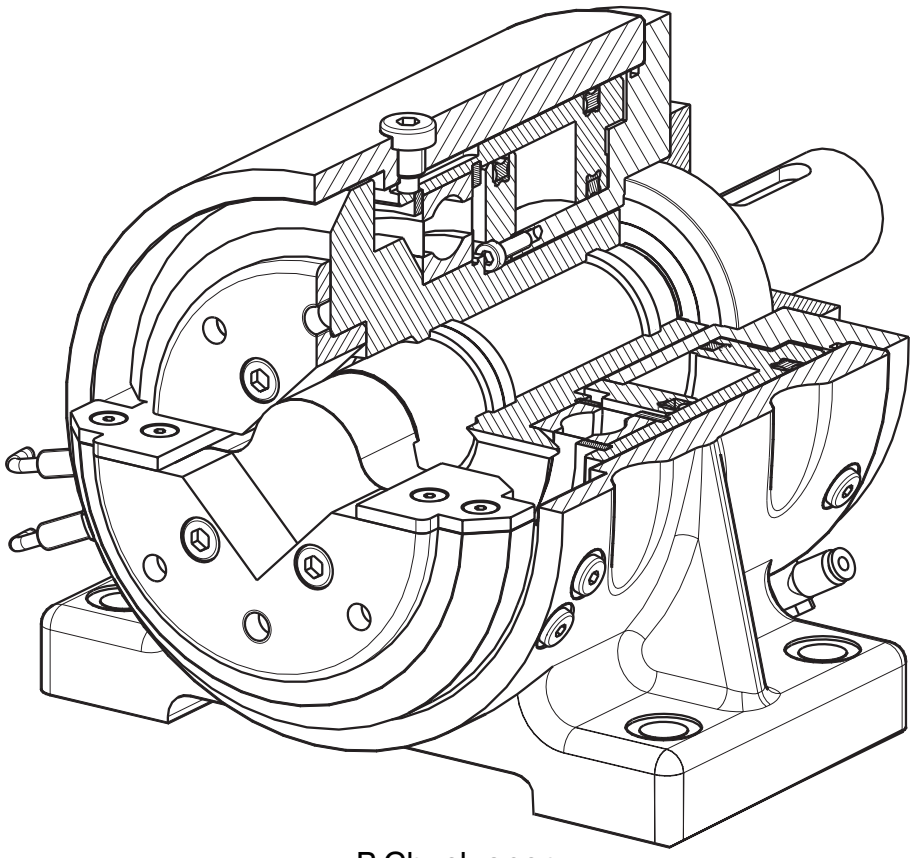
Changes reserved (a)

Construction
Chuck type P



P-Chuck closed



P-Chuck open

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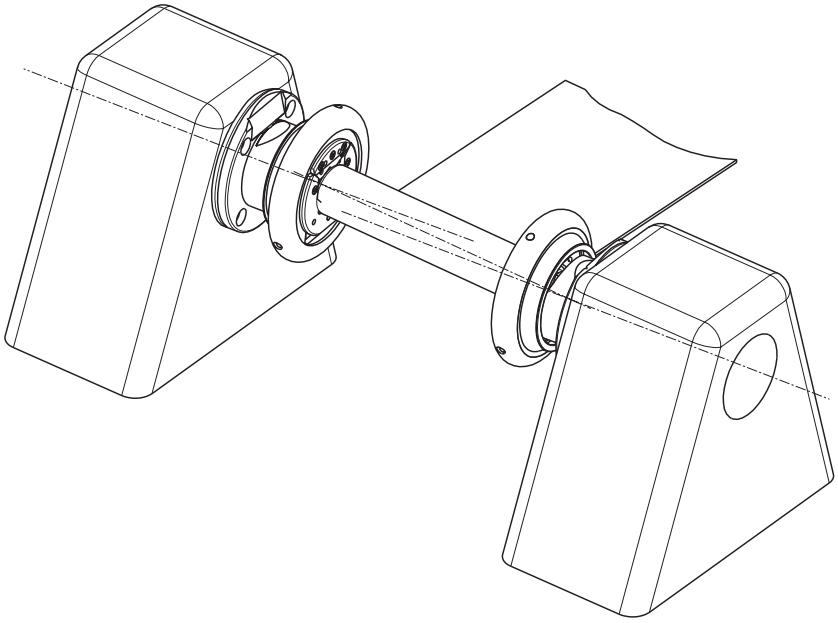
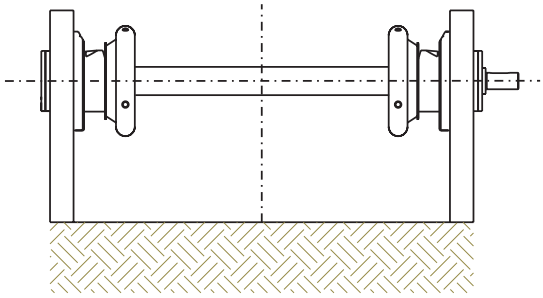
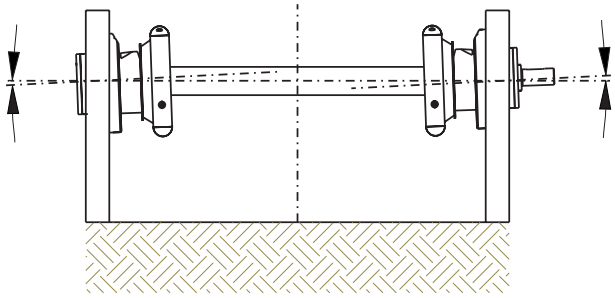
Changes reserved

5.00 Assembly Instruction

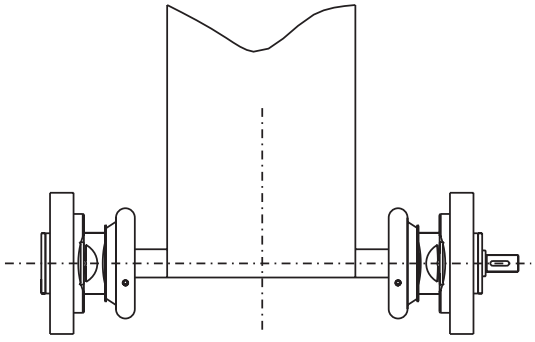




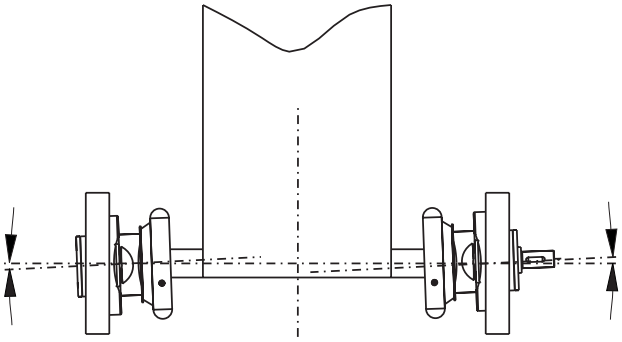
right



wrong



right



wrong

- Boschert Chucks have to be mounted in an alignment
- please make sure that the winding shafts are mounted in the same hight and same distance
- No more then 0.3° misalignment.

- is the winding shaft 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.

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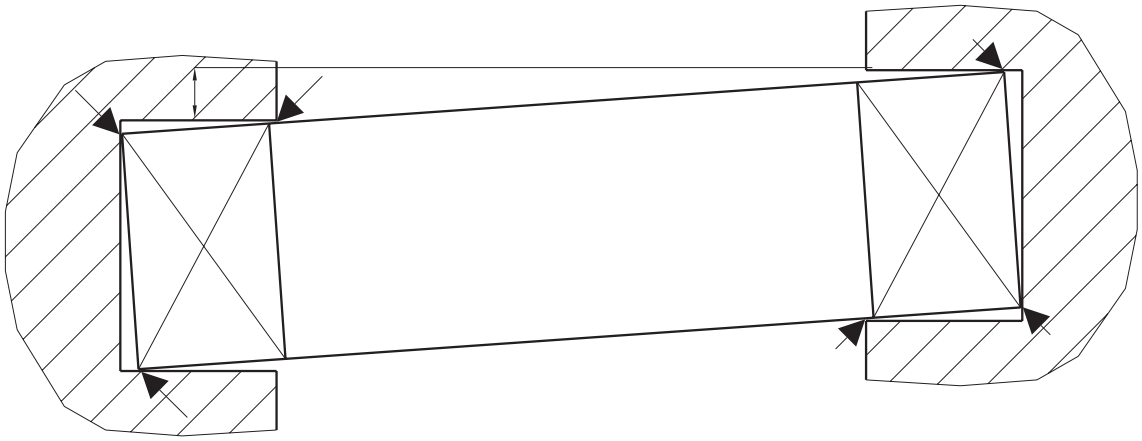
Changes reserved

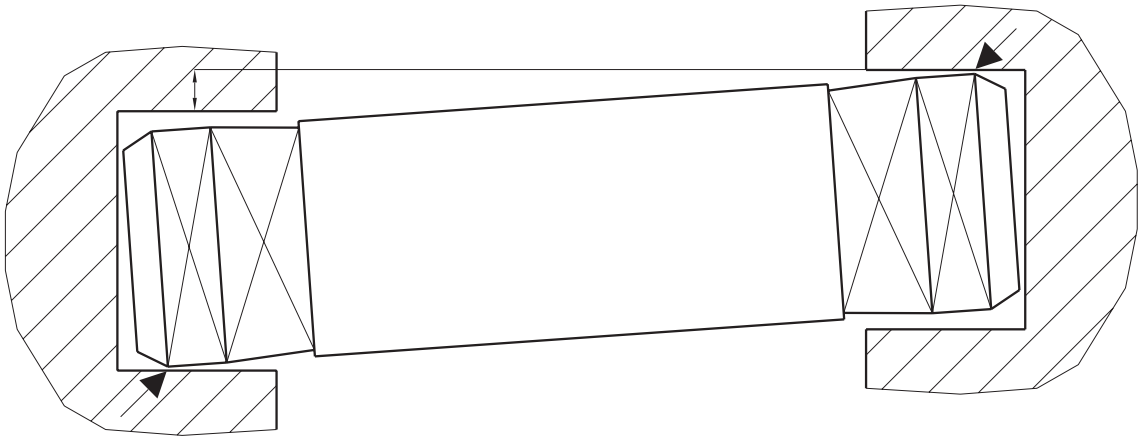
Assembly Instruction

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

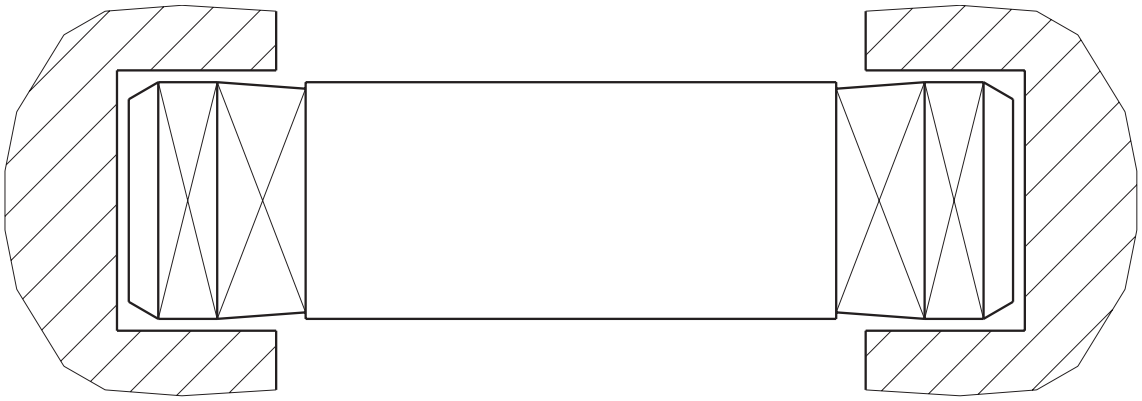
The factory cannot provide any warranty if the chucks are not mounted as we recommend.



wrong alignment



wrong alignment



correct alignment

5.01

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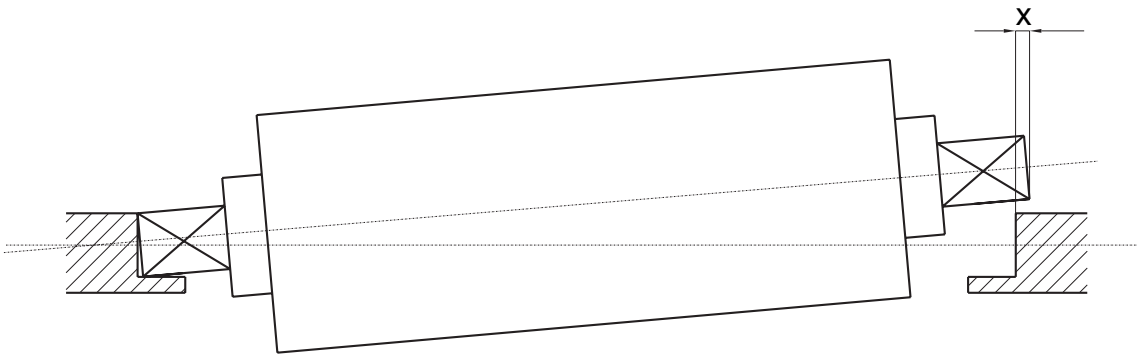
Changes reserved

BOSCHERT

Advantages of close tolerances - Selection of the winding bar

Here especially measure "x" see page 5.10.
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 here show the main influences on examples.

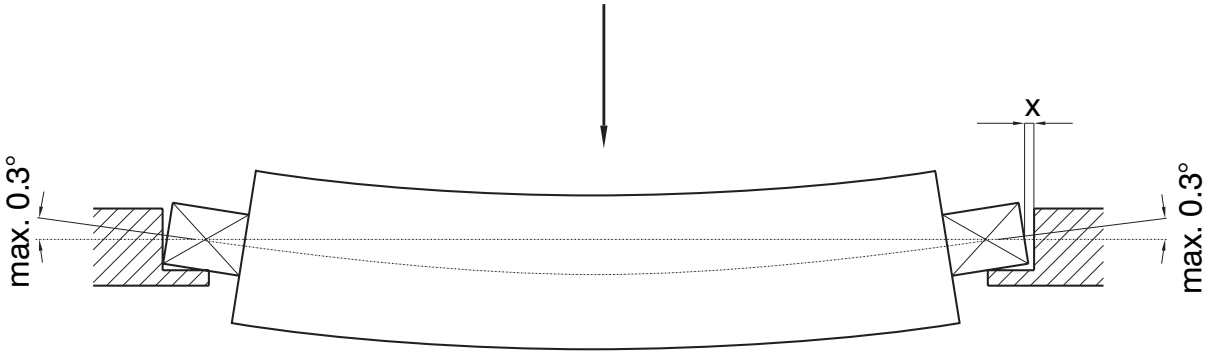
Winding shaft cannot be inserted in alignment with the shaft



More space necessary !

Wrong choice of winding shafts deflection.

max. bending angle at the journals 0.3°



Space becomes larger !

Important: please see page 5.10

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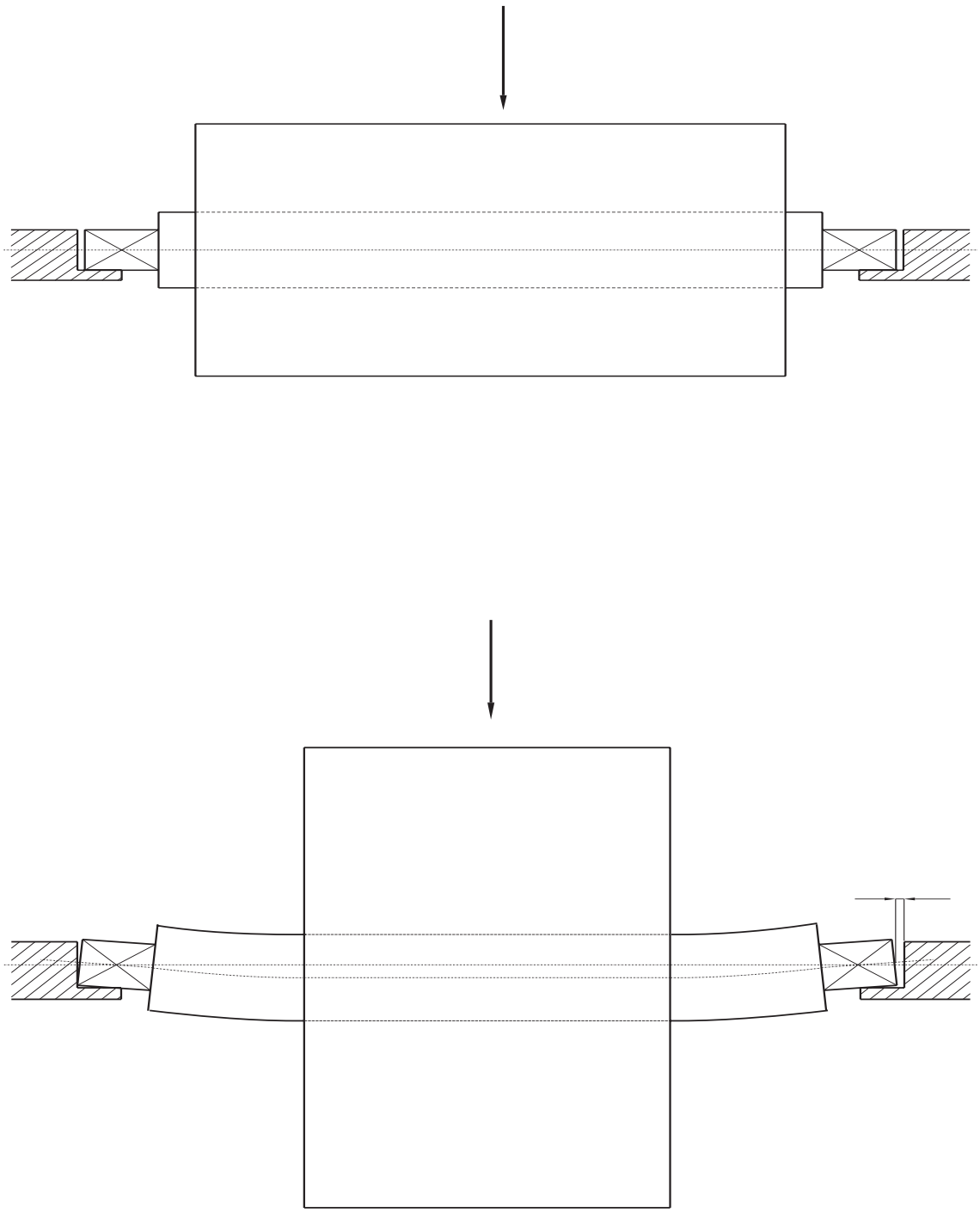
Changes reserved

BOSCHERT

Different roll widths on the same winding shaft

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



Effect of narrow width roll on roll shaft

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Changes reserved

1. Manufacturer

Boschert GmbH & Co. KG
Mattenstrasse 1
D-79541 Lörrach-Hauingen
phone-no.: 07621/95930
Fax-no.: 07621/55184

2. Range of application

Boschert Safety Chucks are used to wind and unwind all different web materials. It is possible to work with Boschert Safety Chucks in temperatures between - 30 degrees and +100 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 guarentee a safe supporting of the winding shaft, the Boschert Safety Chucks are provided with three safety-systems.

a) The spring-ball lock in the handwheel holds the handwheel in a safe and closed condition during operation.
b) The housing of the chuck has a slope which prevents the handwheel opening in a wrong position and means the handwheel closes automatically when the machine starts.
c) A finger-guard which is fixed on the handwheel makes access to the pinch point of the 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 protect against mechanical damage.

(a) Changes reserved

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 then 0.3° misalignment.

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 100 degr. Celsius

4.5 Safety measure

User has to make sure, that the finger-guard is glued to the handwheel.

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.

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 have 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.

6. Servicing

To guarantee a safe work environment, following chucks 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
c) Does the handwheel close itself after a 180 degrees revolution

If one of the above described points doesn't work, the chuck has to be taken out of operation and repaired.

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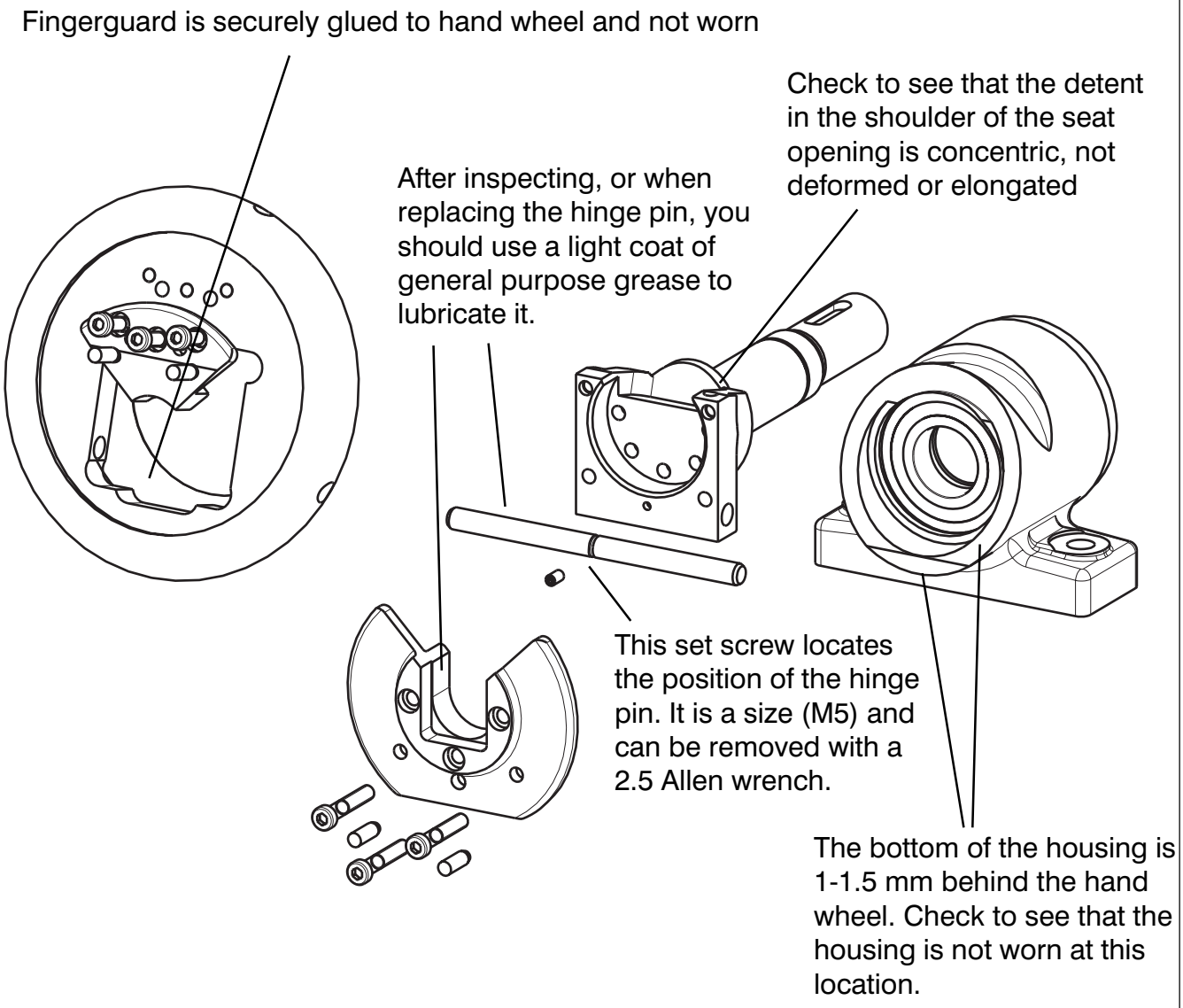
Changes reserved (a)

7. Disassembling

If is necessary to disassemble the chucks, please take care that each shaft and it's handwheel are a set and you should not it is possible to assemble incorrectly, to assemble parts that don't belong together. Changes cause an incorrect movement and stresses the chucks.

8. Spare parts

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



Generally safety chucks should always closed by hand.

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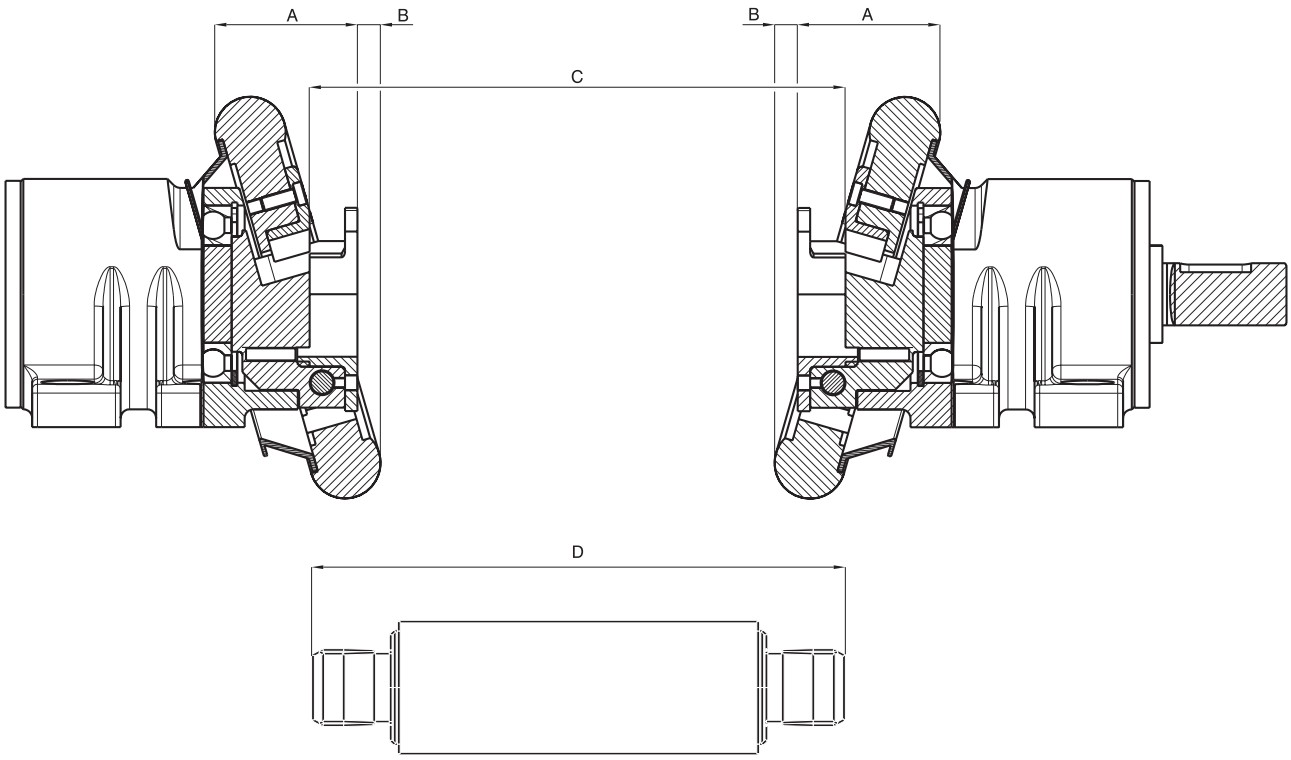
(a) Changes reserved

5.10 Winding shaft tolerances



Typ	A	B	x=(C-D)
Mini	38	8	0,5
19-25	54	9	0,5
22-30	61	8	0,5
30-40	73	13	0,5
40-50	81	13	0,5
50-80	106	16	0,5
80-120	145	18	0,5
120-180	175	24	1
170-200	216	24	1
170-230	230	18	1

x = necessary clearance

Attention!
We emphasize that the close tolerances and exact manufacture of our new chucks make it neccassary 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**.

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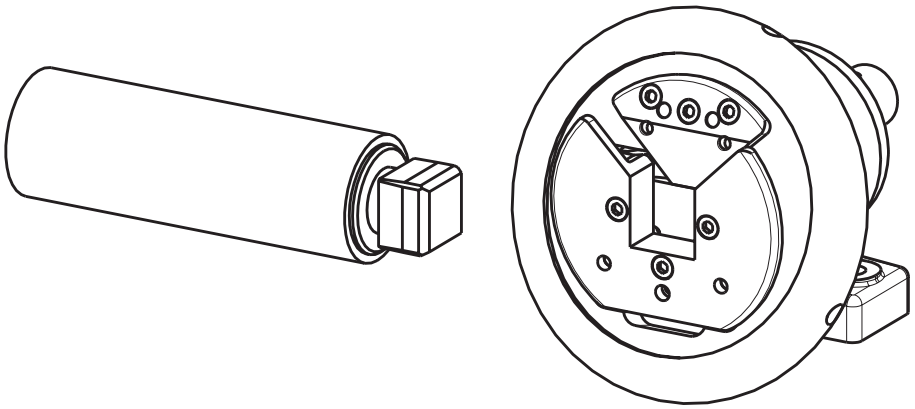
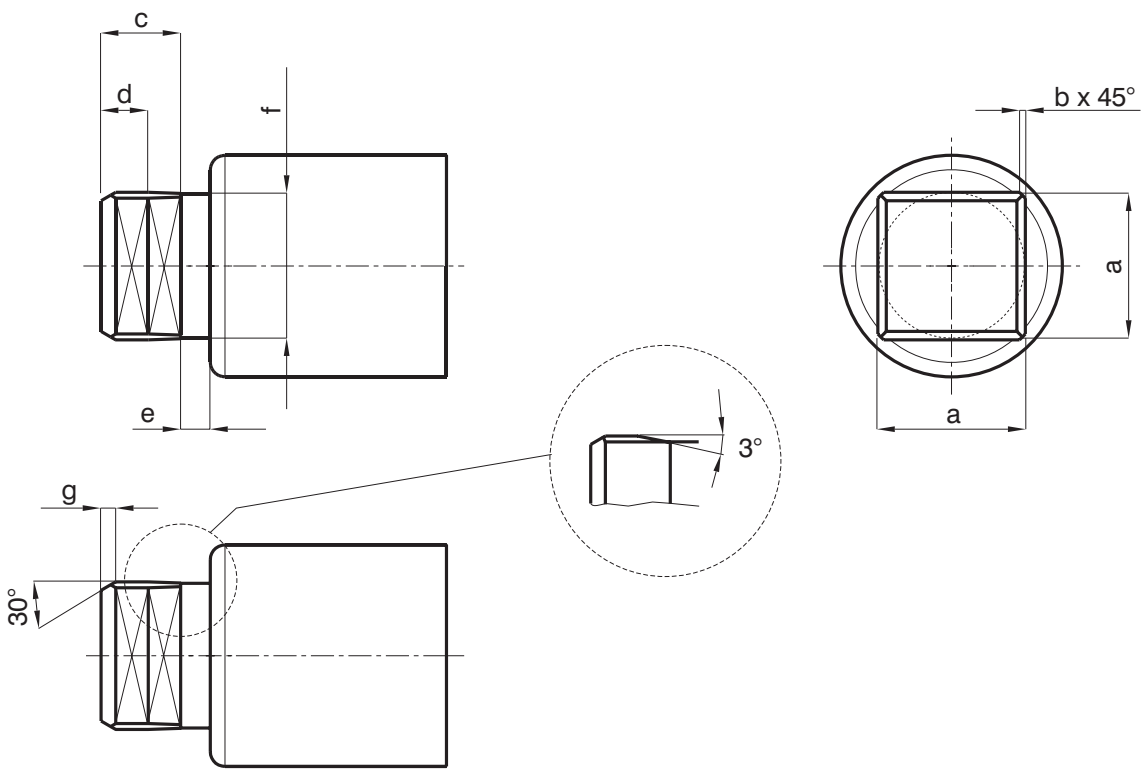
Changes reserved (a)

5.20 Winding shaft tolerances VT1





	VT1/VT2						
	a f7	**b**	**c**	**d**	**e**	**Ø f**	**g**
Mini	14-20	1	11,5 -0,2	8	8	a-1 -0,1/-0,2	3
19 - 25	19-25	1	18,5 -0,2	10	8	a-1 -0,1/-0,2	3
22 - 30	22-30	1	21,5 -0,2	11	8	a-1 -0,1/-0,2	4
30 - 40	30-40	1,5	24 -0,2	12,5	10	a-1 -0,1/-0,2	5
40 - 50	40-50	2	26 -0,2	13,5	10	a-1 -0,1/-0,2	5
50 - 80	50-80	3	34 -0,3	17,5	17	a-1 -0,1/-0,3	6
80 - 120	80-120	4	54 -0,5	27,5	22	a-1 -0,1/-0,3	16
120 - 180	120-180	5	64 -0,5	35	25	a-1 -0,1/-0,3	20
170 - 200	170-200	6	84 -0,5	45	25	a-1 -0,1/-0,3	30
170 - 230	170-230	6	89 -0,5	48	25	a-1 -0,1/-0,3	32

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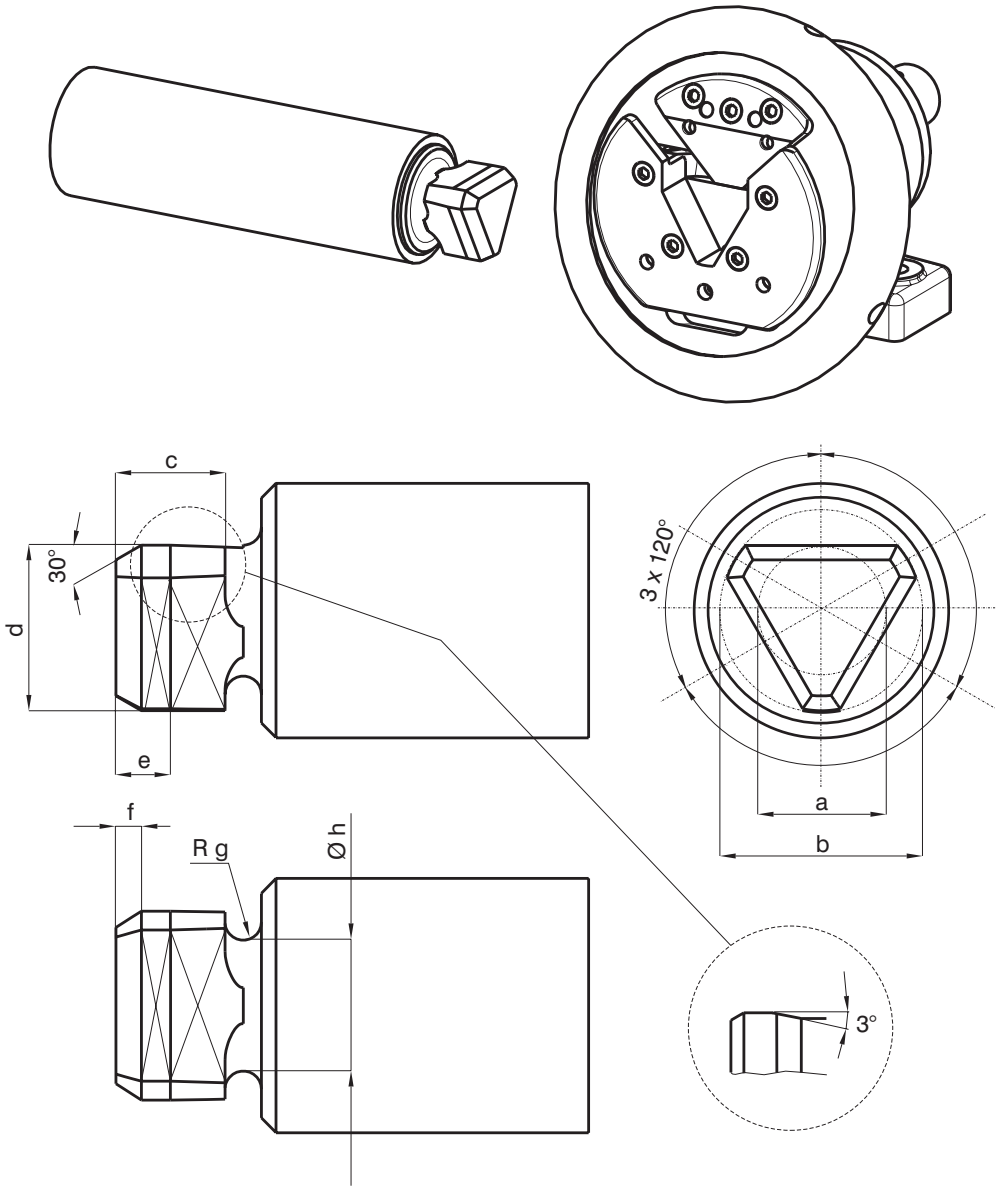
Winding shaft tolerances VT6



	VT6							
	a f7	**b** f7	**c**	**d** f7	**e**	**f** x 30°	**g**	**h**
Mini	20	27	11,5	23.5	7.5	3	4	20 -0.1/-0.2
19 - 25	20	27	18.5	23.5	12	3	4	20 -0.1/-0.2
22 - 30	30	44	21,5-0.2	37	14	5	4	30 -0.1/-0.2
30 - 40	36	54	24 -0.2	45	15	7	5	36 -0.1/-0.2
40 - 50	46	69	26 -0.2	57.5	16	7	5	46 -0.1/-0.2
50 - 80	67	104	34 -0.3	85.5	20	7	8.5	67 -0.2/-0.4
80 - 120	96	148	54 -0.5	122	30	18	11	96 -0.2/-0.4

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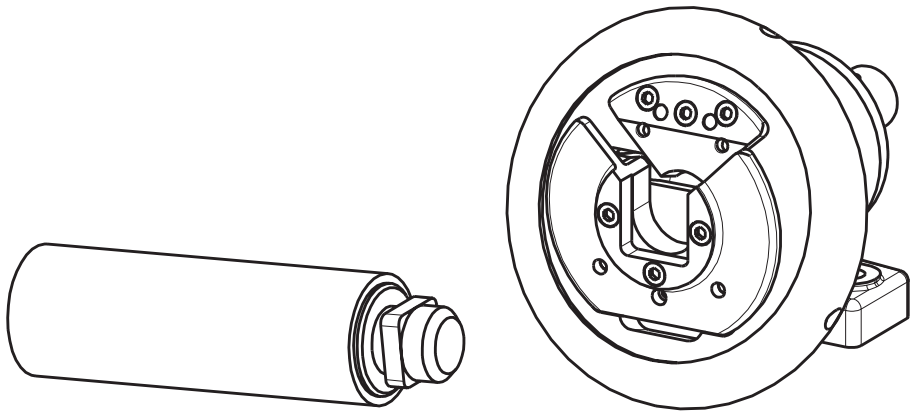
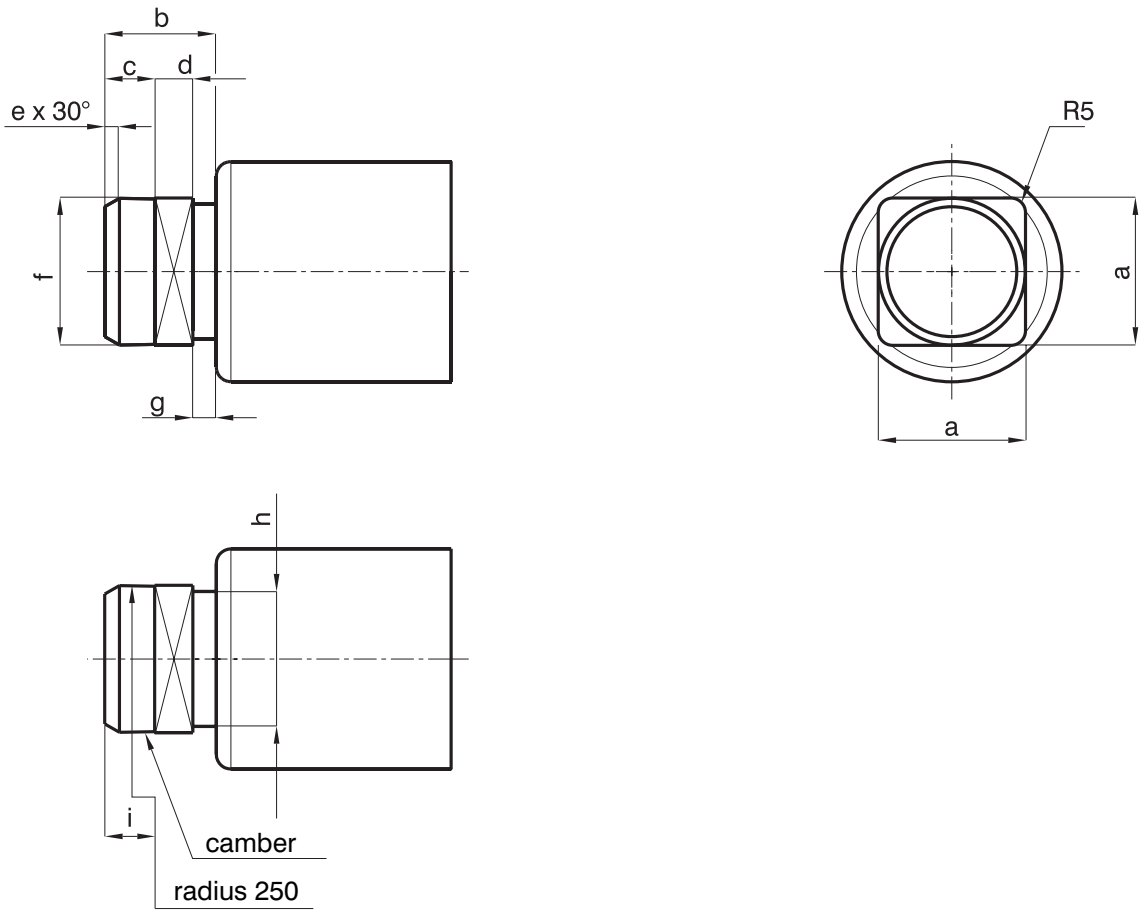
Winding shaft tolerances VT7





	VT7								
	a	**b**	**c**	**d**	**e x 30°**	**Ø f h7**	**g**	**Øh -0,2**	**i**
22 - 30	30 +0.1/+0.3	32,5	14 +0.2/+0.3	10.5 -0.1	4	30	8 +0.1	26 -0.2	6
30 - 40	40 +0.1/+0.3	37	18 +0.2/+0.3	11 -0.1	5	40	8 +0.1	36 -0.2	6
40 - 50	50 +0.1/+0.3	38	17 +0.2/+0.3	13 -0.1	5	50	8 +0.1	46 -0.5	6
50 - 80	50 +0.2/-0.2	55	23 +0.2/+0.3	17 -0.1	6	50	15 +0.1	45 -0.2	9
	80 +0.1/+0.3	55	23 +0.2/+0.3	17 -0.1	6	80	15 +0.1	74 -0.2	9

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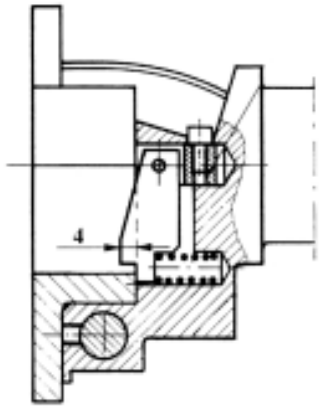
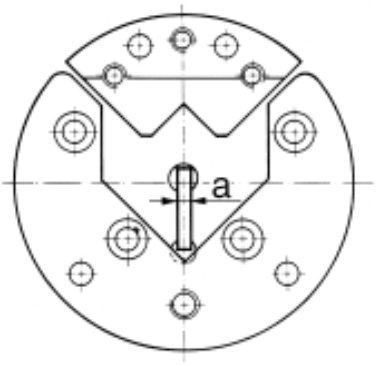
(a) Changes reserved

Driver-radial

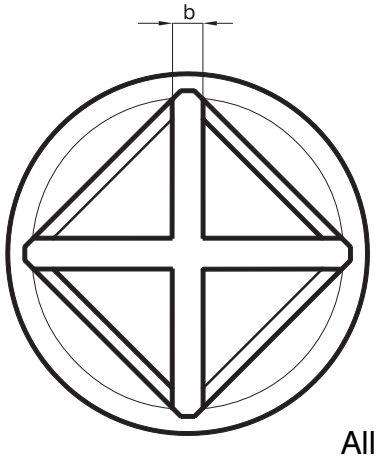
In order to ensure the undriven chucks types VT2 and VT6 will lock automatically, a radial driver is offered.



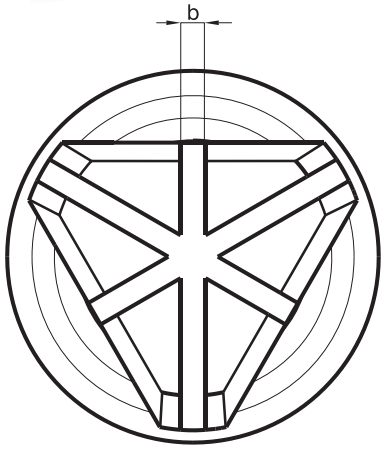


Design of the shaft end for radial driver

VT2



VT6



All slots 5 mm (0.1969“) deep.

	a	b
Chuck Typ 22-30	$4^{-0.02}_{-0.05}$	$4^{+0.1}_{+0.05}$
Chuck Typ 30-40	$5^{-0.02}_{-0.05}$	$5^{+0.15}_{+0.1}$
Chuck Typ 40-50	$5^{-0.02}_{-0.05}$	$5^{+0.15}_{+0.1}$
Chuck Typ 50-80	$5^{-0.02}_{-0.05}$	$5^{+0.15}_{+0.1}$

Info 5.21 Info 5.22

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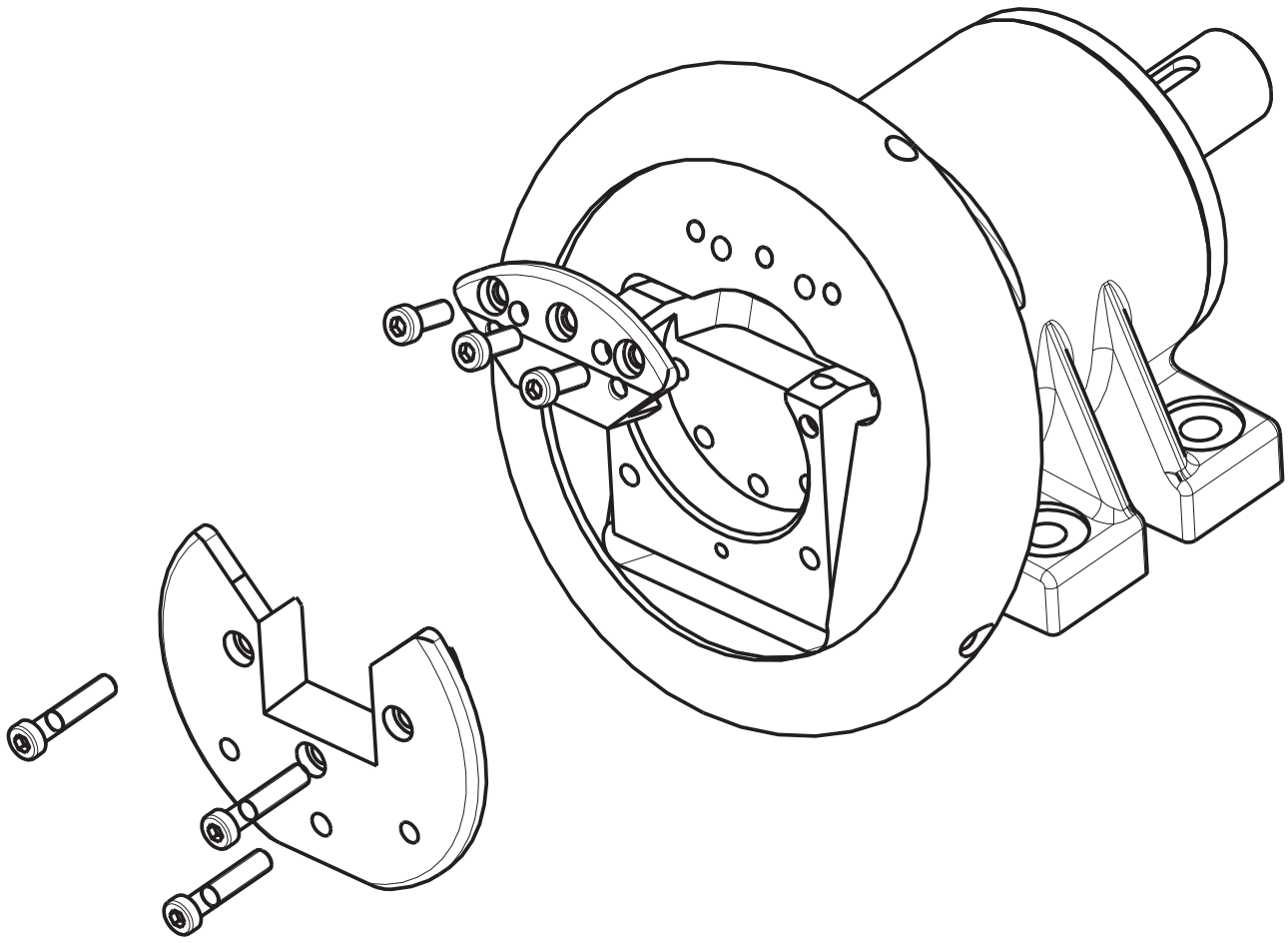

Attention!

When ordering it is important that shafts from the C-chuck subsequently cannot fitted with VT.

However it is possible to convert C-chucks to VT-chucks by changing the shafts and handwheels with the VT type.

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Info
Wearing-Parts

The demand for higher speed and greater torque led to the development of the VT-insert. All safety chucks of size 22-30 up to 80-120 can be delivered from BOSCHERT with VT-inserts (wearing-parts). Chucks size 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 with the chucks in situ reducing down time to an absolute minimum
- easy change to other square sizes through replacement of the wearing parts in the same chuck
- VT parts can be supplied hardened to customers needs or in soft condition to protect the more expensive winding shafts
- low stock-keeping costs of the VT
- change from one geometry to another (SQ. to VT-7)

Especially the user, who is using safety chucks with special shaft end should consider chucks with wearing parts in order to assure a fast delivery of spare parts. The wearing parts are available from stock in most standard sizes, while, the time of delivery for shafts, especially with special shaft end, has to be arranged.
We recommend our customers who use wearing parts to put one or more sets of wearing parts in stock to be used in case of an emergency.

When ordering please remember that shafts from the C-chuck subsequenttly cannot be fitted with VT.

However it is possible to covert C-chucks to VT-chucks by changing the shafts and handwheels with the VT type.

Note at VT2 chucks:
max. torque= 0.7 x catalogue value
max. weight= 0.8 x catalogue value

Generally safety chucks should always be closed by hand.
In order to ensure the undriven chucks types VT2 or VT6 to lock automatically, a radial driver is offered.

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Dimension sheet
VT-inserts

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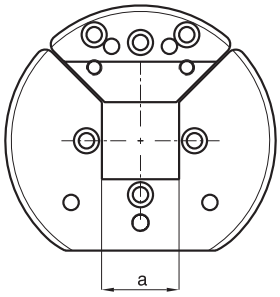
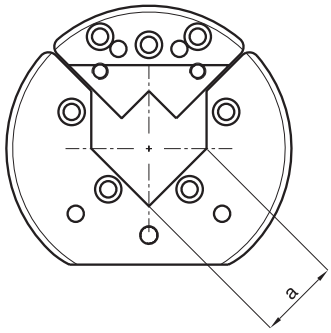


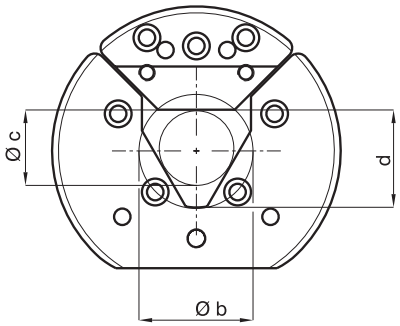


VT1/VT2

	dimension a (mm)										
22 - 30	25	30									
30 - 40		30	32	35	40						
40 - 50					40	45	50				
50 - 80							50	60	80		
80 - 120									80	100	120

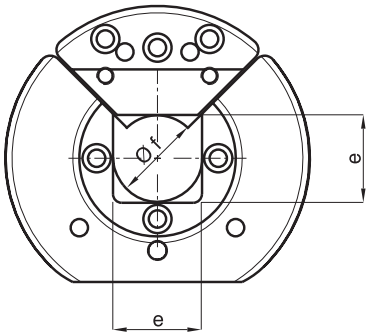
	dimension a (inch/mm)									
22 - 30	1“	1 1/8“	1 1/4“							
	25.4	28.57	31.75							
30 - 40			1 1/4“	1 1/2“						
			31.75	38.1						
40 - 50			1 1/4“	1 1/2“		1 3/4“	2“			
			31.75	38.1		44.45	50.8			
50 - 80							2“	2 1/2“		
							50.8	63.5		
80 - 120										4“
										101.6

VT2: 50-80 a = max. 63.5 80-120 a = max. 100



VT6

	dimensions (mm)		
	Ø b	**Ø c**	**d**
22 - 30	45	30	37.5
30 - 40	55	36	45.5
40 - 50	70	46	58
50 - 80	105	67	86
80 - 120	150	96	123



VT7

	dimension (mm)	
	e	**Ø f** F7
22 - 30	31	30
30 - 40	41	40
40 - 50	51	50
50 - 80	51	50
	81	80

Info 5.23

Special version on customer request

Generally safety chucks should always be closed by hand.
In order to ensure the undriven chucks types VT2 or VT6 to lock automatically, a radial driver is offered.

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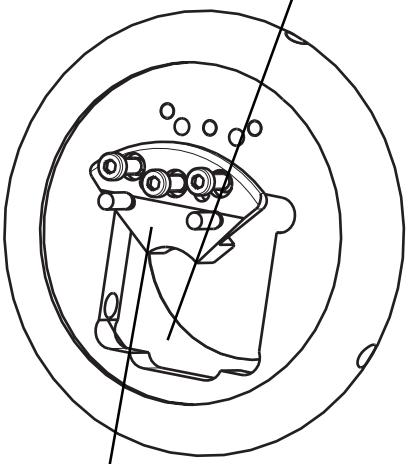
Changes reserved

Maintenance inspection suggestions

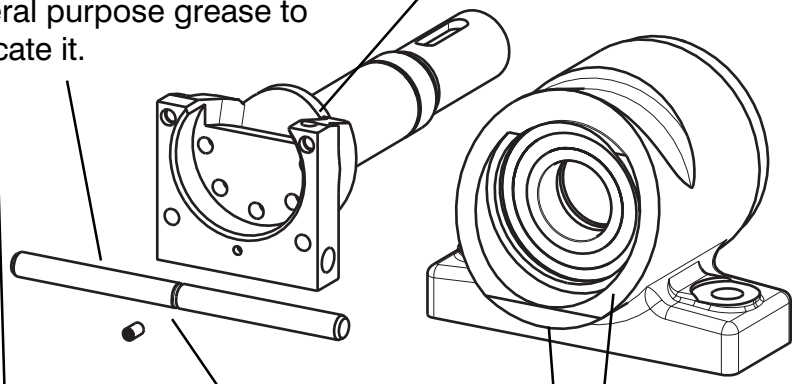
To better maintain your Boschert Safety Chucks please check the following points:

Fingerguard is securely glued to hand wheel and not worn

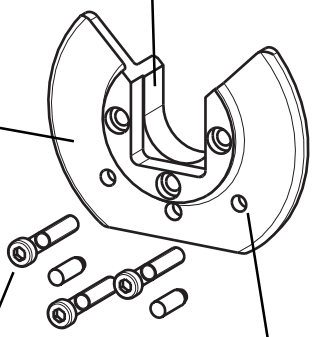


Check to see that the detent in the shoulder of the seat opening is concentric, not deformed or elongated

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



Replacable insert are matched and have the same indentification 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 Allen wrench.

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

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

When installing new replacement VT inserts, the holes have to be reamed again.

5.33

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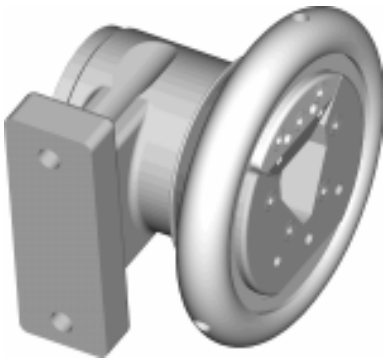
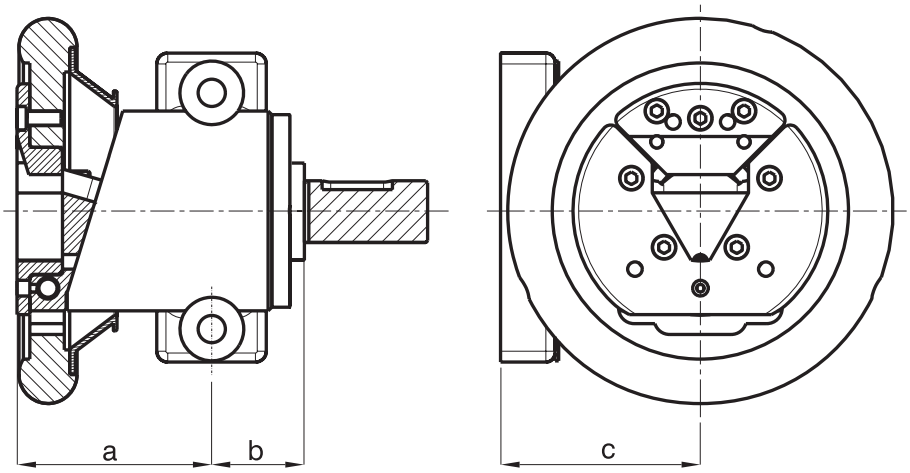
Changes reserved (a)

5.40 Foot mounted chucks for 90° Mounting

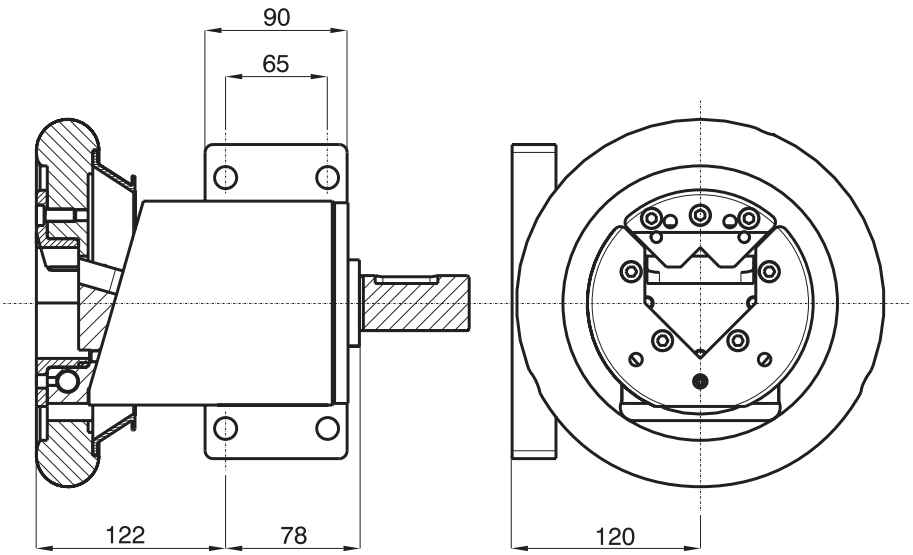
Foot mounted chucks to fix at a vertical frame





Type 22-30 / 30-40

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



Type 40-50

Other dimensions as standard chucks

above showed chuck = 90° turned right

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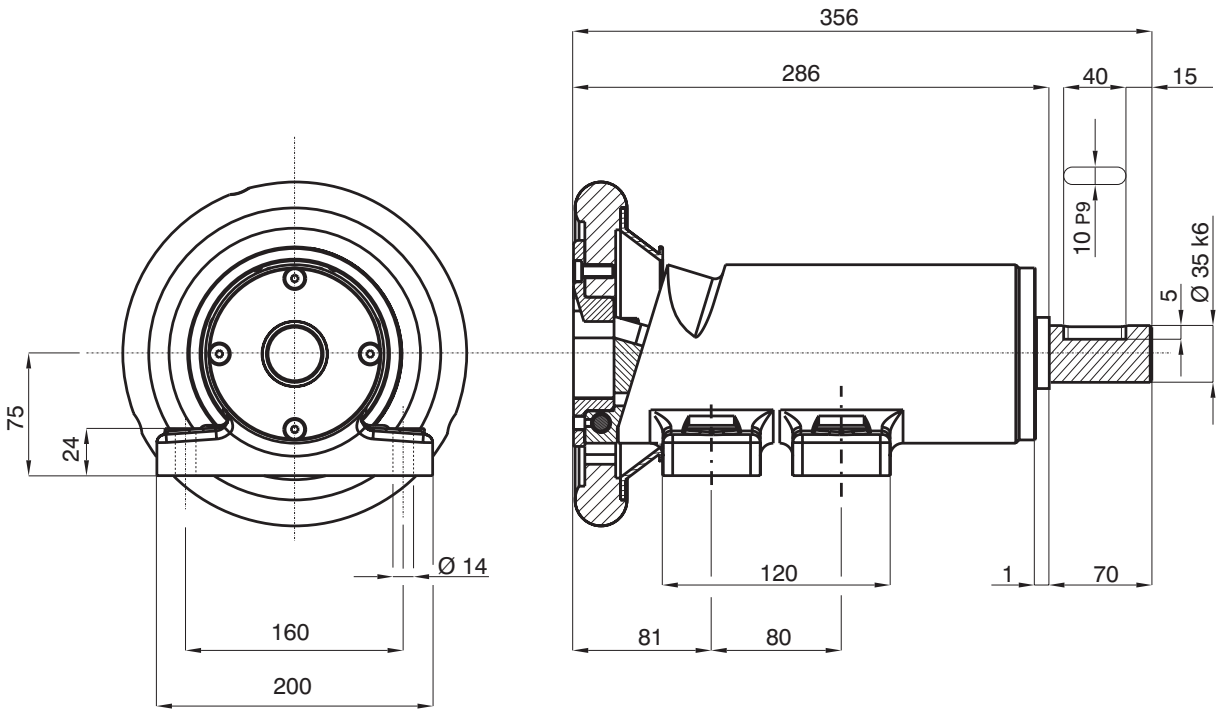
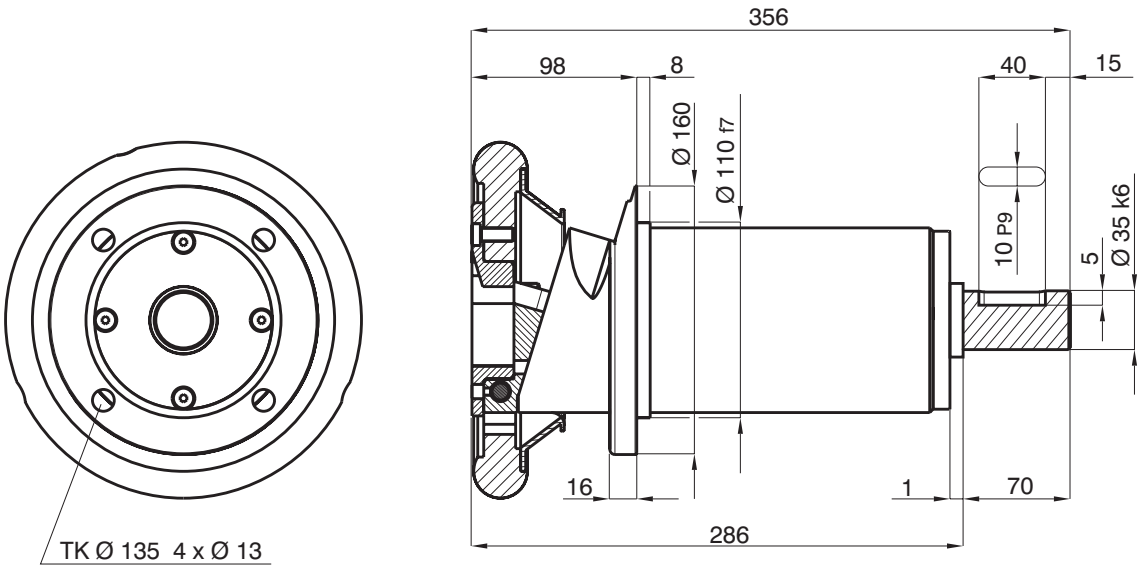
Changes reserved

Flange and foot mounted chuck
Extended Chucks type 30 - 40





TK = bolt hole circle

Beam weight max.: max. 2000 kg **(max. 4410 lbs)**
Square bar: **30 mm - 40 mm (1.1811“ - 1.5748“)**
Torque: **300 Nm (220 ft/lb)**

Standard dimension see chapter 2.30

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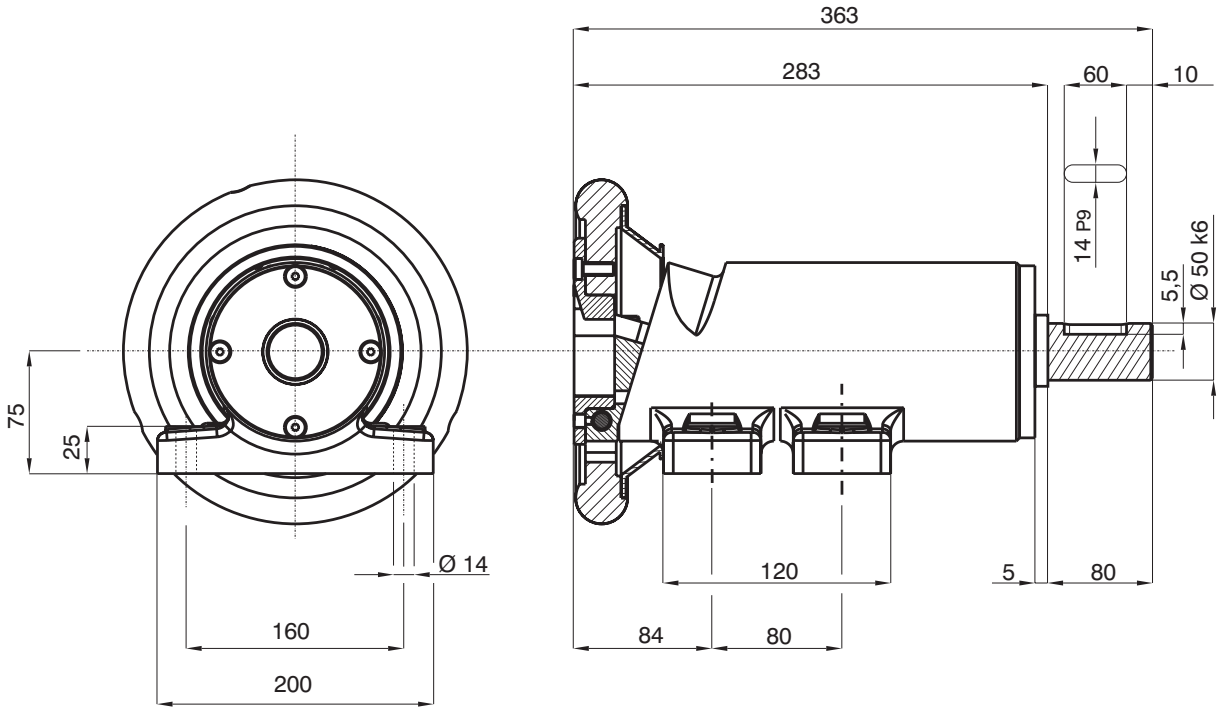
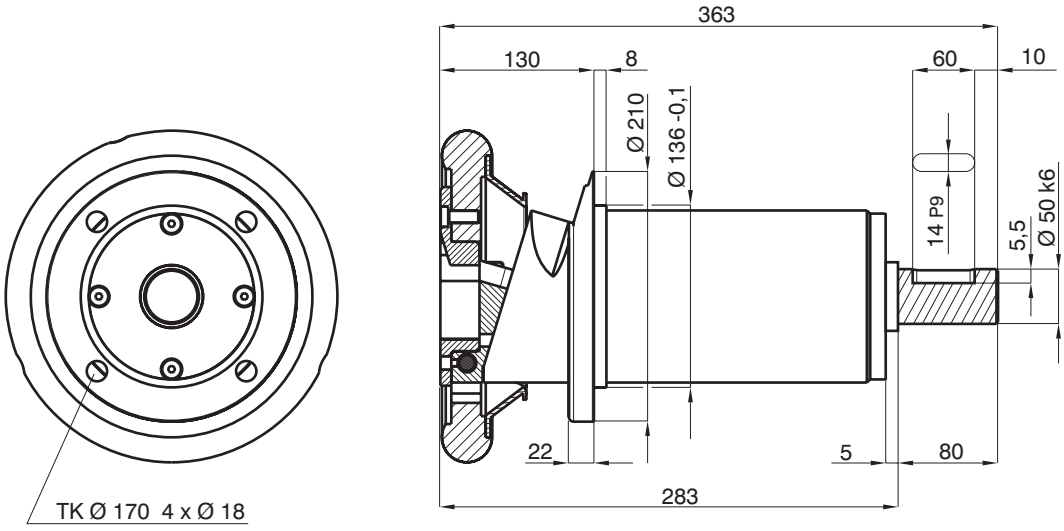
Changes reserved (a)

Flange and foot mounted chuck
Extended Chucks type 40 - 50





TK = bolt hole circle

Beam weight max.: max. 3000 kg **(max. 6610 lbs)**
Square bar: **40 mm - 50 mm (1.5748“ - 1.9685)**
Torque: **1000 Nm (720 ft/lb)**

Standard dimension see chapter 2.40

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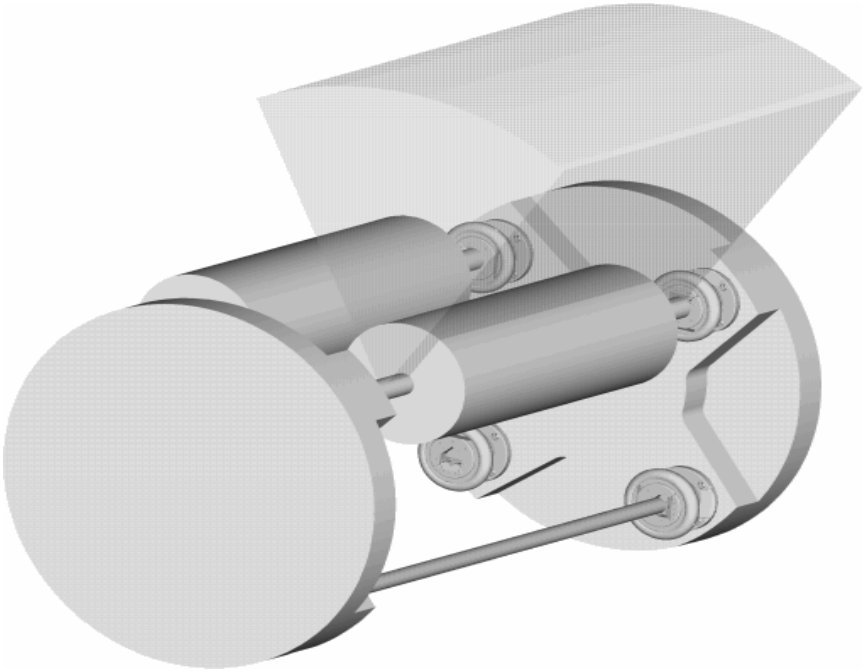
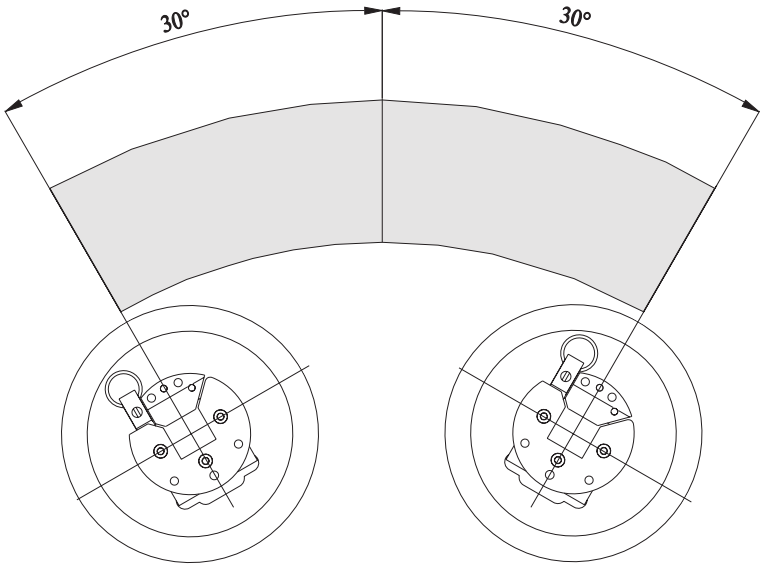
(a) Changes reserved

Extended opening angle

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°.

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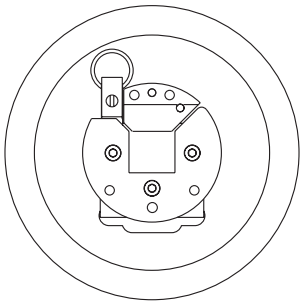
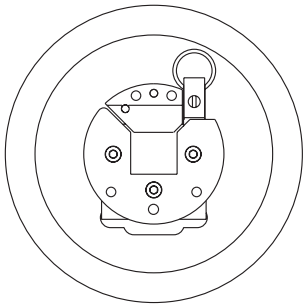
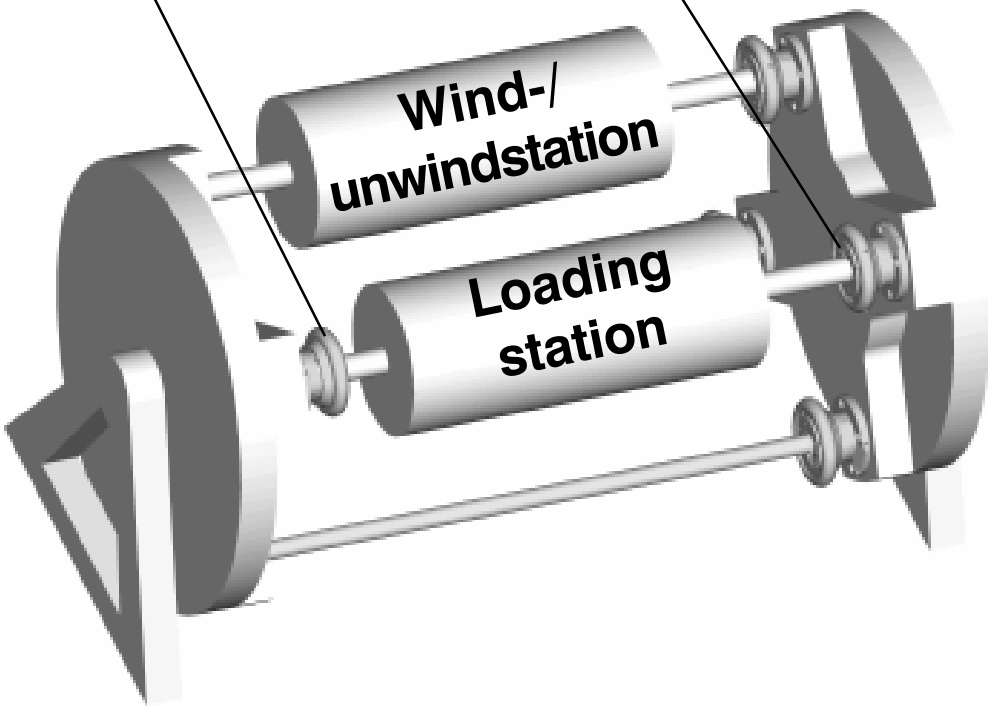
Handwheel lock



Handwheel lock type left



Handwheel lock type right



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. Therefore we recommend a handwheel lock.

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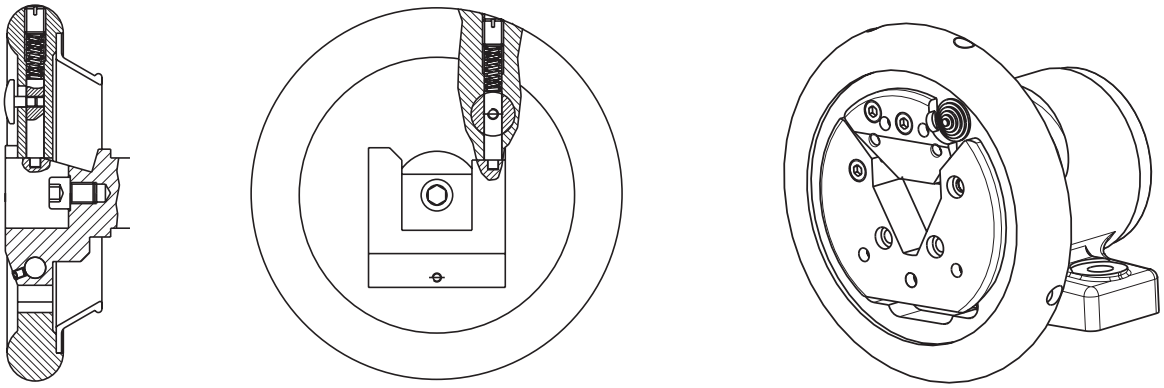
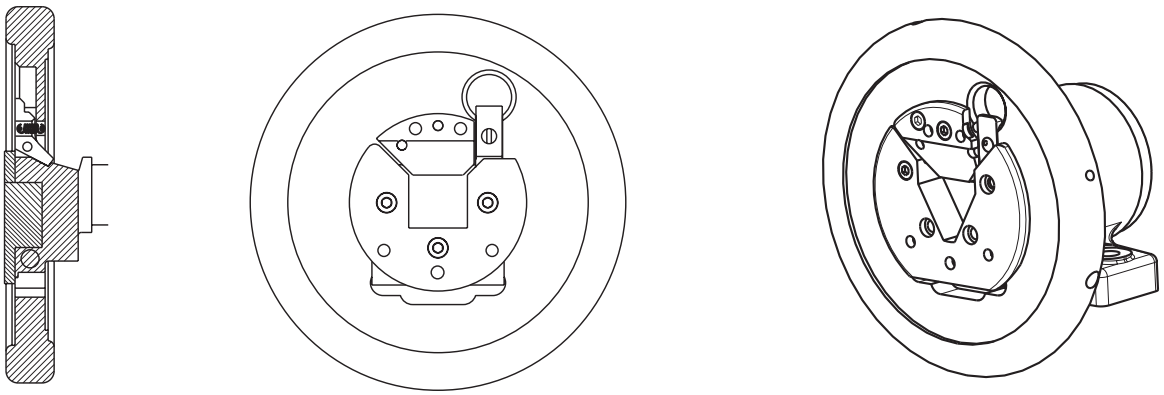
Handwheel lock



Handwheel lock type I
only type 22-30

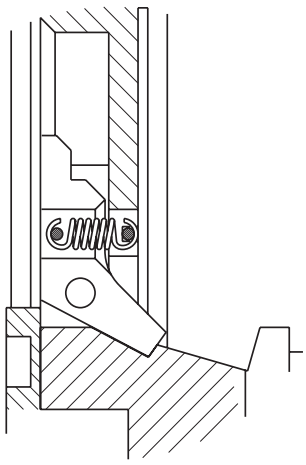


Handwheel lock type II

The handwheel lock type II is a very solid design.

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 neccessary.



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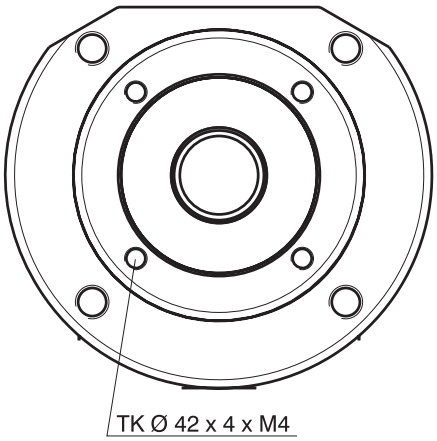
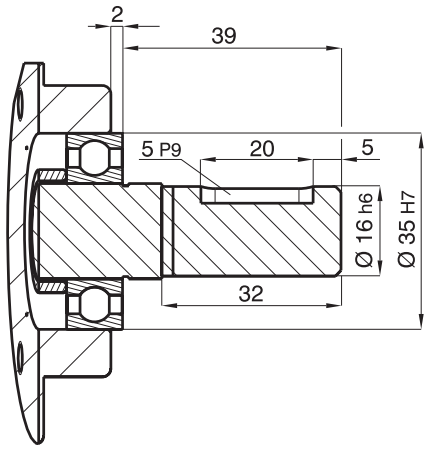
5.50 Shaft ends ESB Mini/19-25

shaft end Mini

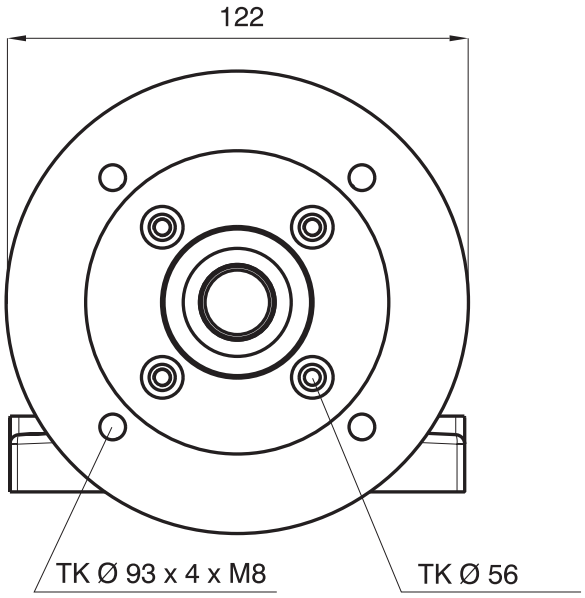


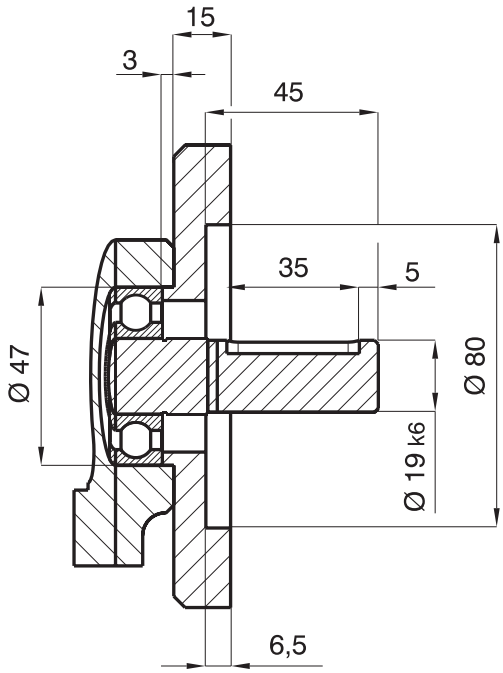


TK = bolt hole circle

On using brakes and clutches TK is Ø 42 x 4 x M5

shaft end 19-25





TK = bolt hole circle

housing: 4 x M6
adapter flange: 4 x Ø 6.6

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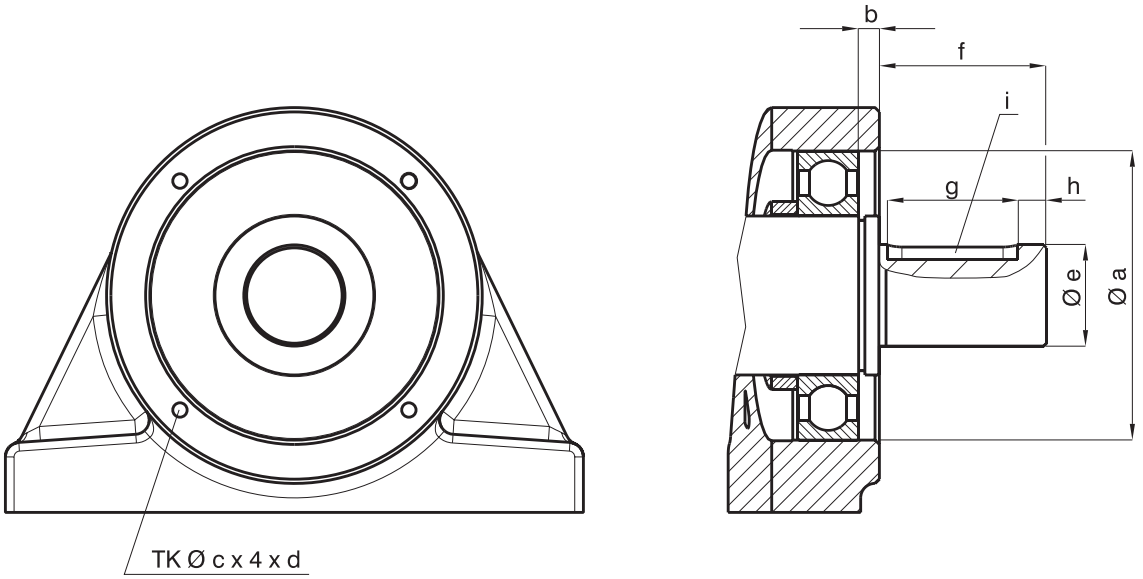
shaft end ESB

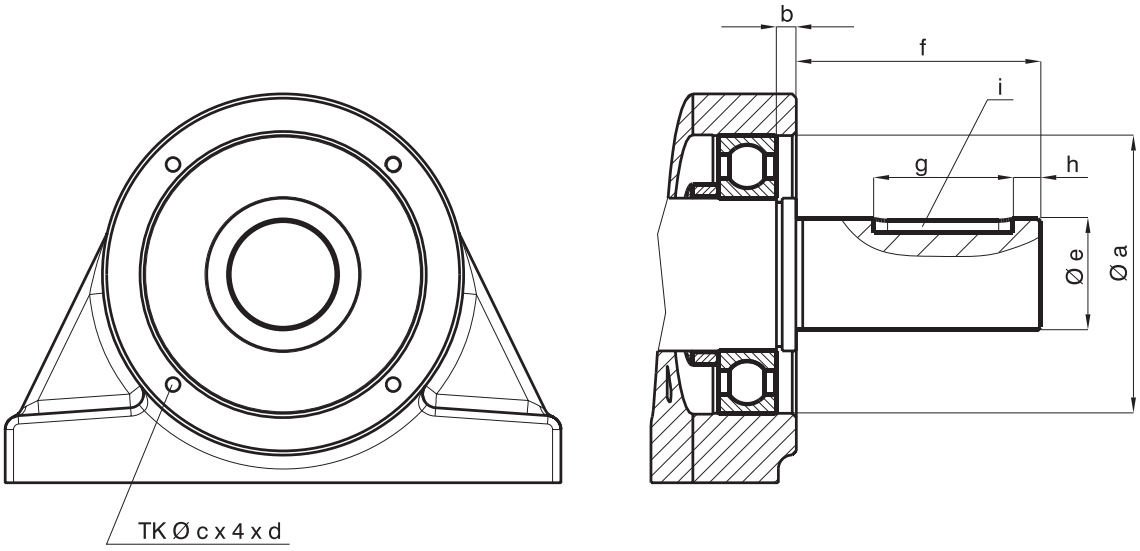


TK = bolt hole circle

	Ø a	b	Ø c	d	Ø e f7	f	g	h	i P9
22 - 30	62	2	73.5	M6	28	39.5	30	3	8
30 - 40	80	5	93	M6	35	40	32	4	10
40 - 50	100	7.5	112	M6	45	58	45	8	14

On using brakes and clutches d = M8

shaft end ESB i



TK = bolt hole circle

	Ø a	b	Ø c	d	Ø e f7	f	g	h	i P9
30 - 40	80	5	93	M6	40	84.5	50	5	12
40 - 50	100	7.5	112	M6	40	84.5	50	5	12

On using brakes and clutches d = M8

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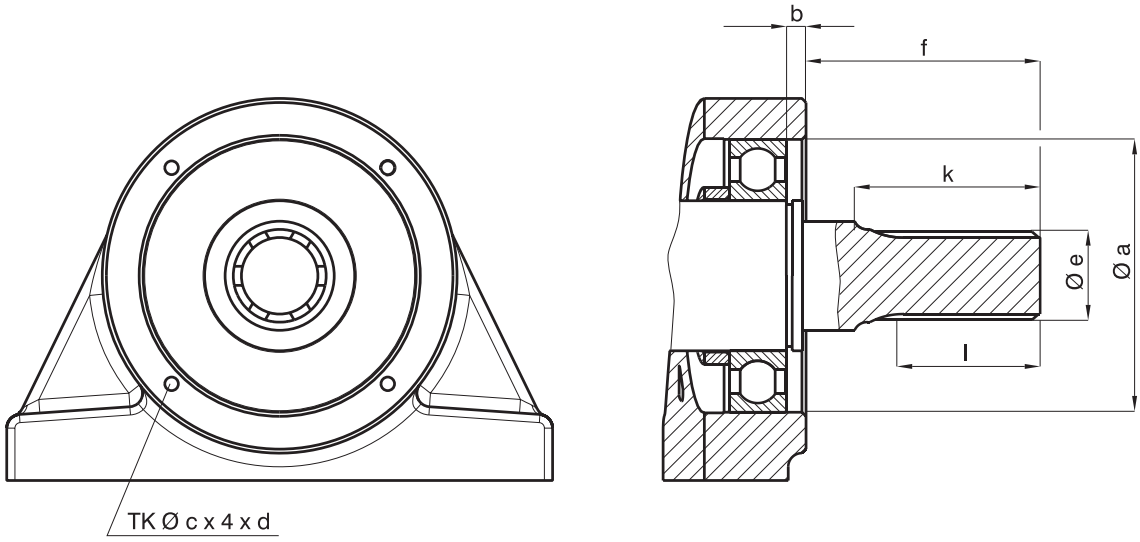
shaft end DSB



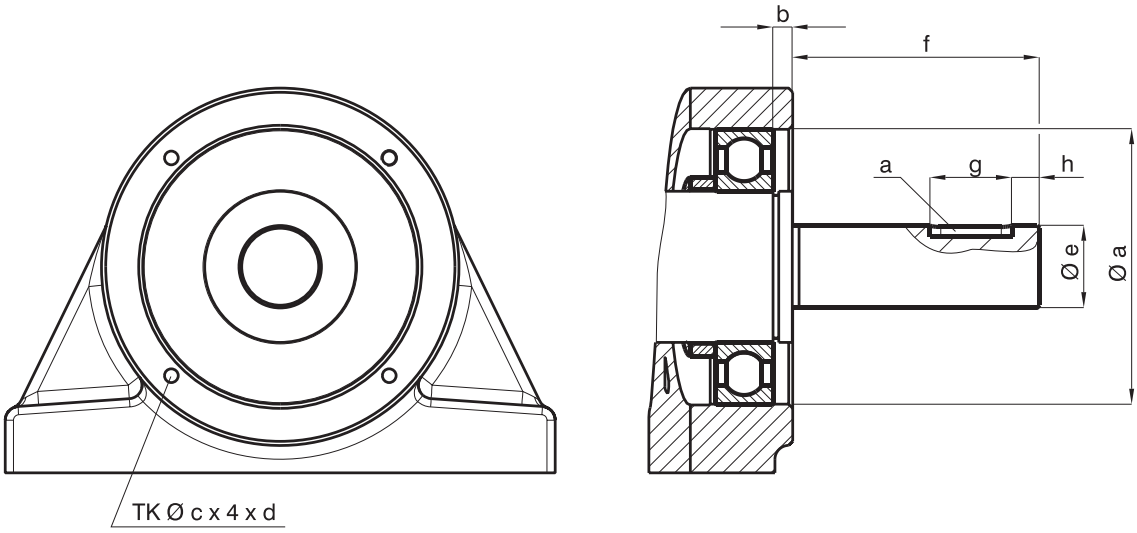
TK = bolt hole circle

	Ø a	b	Ø c	d	f	k	l
30 - 40	80	5	93	M6	89	68	50
40 - 50	100	7.5	112	M6	85.5	68	50
50 - 80	140	7.5	154	M6	87	68	50

Ø e = spline shaft 6 x 28 x 34 DIN 5463

On using brakes and clutches d = M8

shaft end RU



TK = bolt hole circle

	Ø a	b	Ø c	d	Ø e h7	f	g	h	i P9
22 - 30	62	2	73.5	M6	30	93.5	30	5	8
30 - 40	80	5	93	M6	30	90	30	5	8
40 - 50	100	7.5	112	M6	30	88	30	5	8

On using brakes and clutches d = M8

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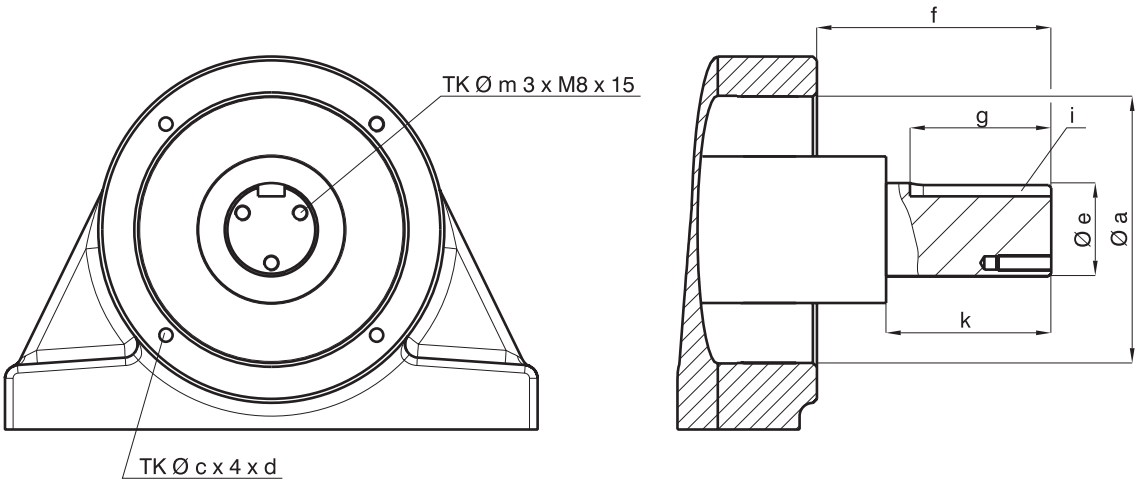
shaft end HRU 1,5 kW
type 30-40

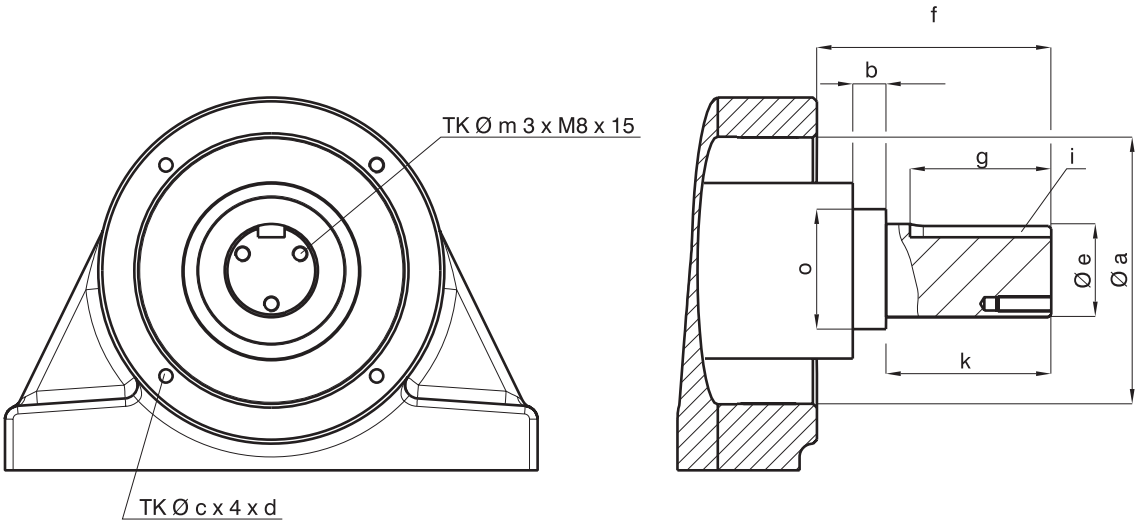


TK = bolt hole circle

	Ø a	b	Ø c	d	Ø e j6	f	g	i P9	k	m
30 - 40	80	7.5	96	M6	35	98	52	10	62	25

On using brakes and clutches d = M8

shaft end HRU 1,5 kW
type 30-40



	Ø a	b	Ø c	d	Ø e j6	f	g	i P9	k	m	o
40 - 50	100	10	112	M6	35	98	52	10	62	25	40

On using brakes and clutches d = M8

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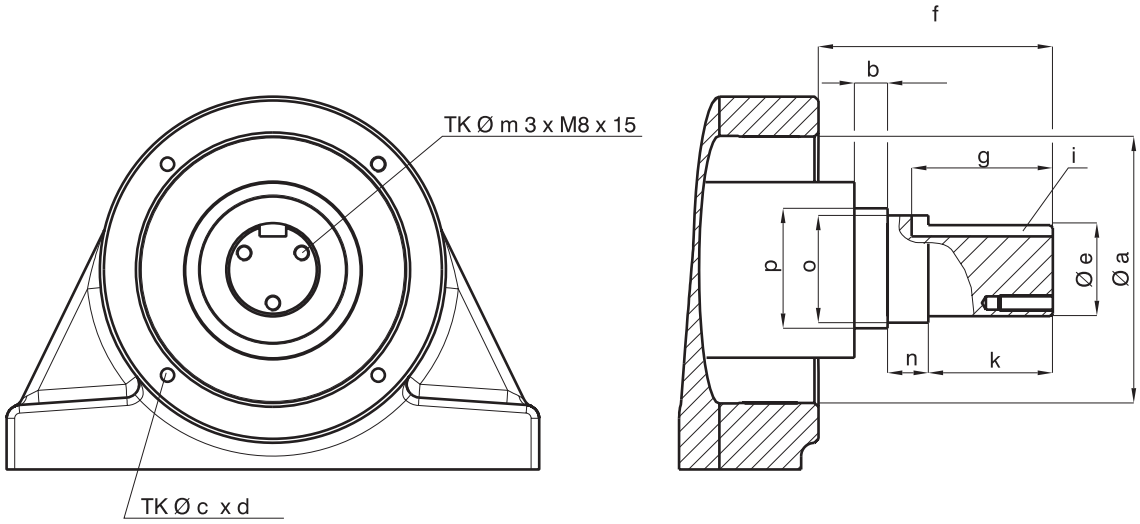
shaft end HRU 3 kW
type 40-50/50-80



TK = bolt hole circle

	Ø a	b	Ø c	d	Ø e j6	f	g	i P9	k	m	n	o	p
40 - 50	100	6	112	4 x M6	42	102.7	56	12	50	30	18.7	45j6	50
50 - 80	140	21.5	154	6 x M8	50	149	64	14	56	34	44	55k6	60

On using brakes and clutches d = M8

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5.60 Trouble shooting

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

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Error description	Possible faults
Empty Safety Chucks are difficult to rotate by hand	- The ball bearings are worn out - A drive or brake is engaged on Safety Chucks - The hinge pin is bent inside the hand wheel (see page 5.05 item 5.3)
The handwheel opens during operation. There is black powder around the housing. There is a groove in the back side of the handwheel. The bottom of housing, at the front side, has been worn away **Warning: This is a dangerous situation**	- The spring and ball in the detent system is damaged or destroyed - Too much tolerance between the overall length of the roll shaft and the distance between the Safety Chucks - Worn roll shaft journals. The load bearing foot print of the roll is no longer seated in the bottom of the seat. It is hanging at the front of the seat where the seat meets the face of the Safety Chuck. It tries to open the Safety Chuck. - Deflecting roll shaft journal. It has the same effect on the Safety Chuck as the worn roll shaft journal.

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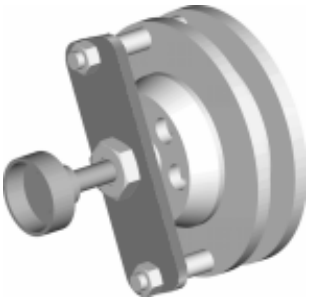
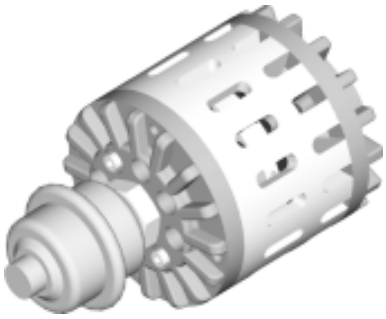
6.00 Brake schedule



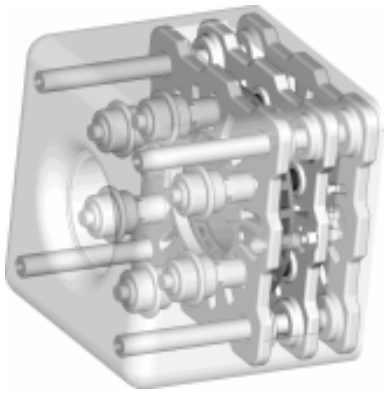


	Mini	ESB	ESB i	DSB	Performance	Performance 200
VT-/C-Chuck	Nm (ft/lb)	Nm (ft/lb)	Nm (ft/lb)	Nm (ft/lb)	Nm (ft/lb)	Nm (ft/lb)
Mini	30					
	(22)					
19-25		40/90				50
		(29/65)				(36)
22-30		40/90				50
		(29/65)				(36)
30-40		40/90	50/110	200/440	300/500	50
		(29/65)	(36/80)	(140/320)	(220/360)	(36)
40-50		50/110	50/110	200/440	300/500	50
		(36/80)	(36/80)	(140/320)	(220/360)	(36)
50-80				200/440	300/500	
				(140/320)	(220/360)	
Sliding-Chuck						
22-30		40/90				
		(29/65)				
30-40		40/90	50/110	200/440	300/500	
		(29/65)	(36/80)	(140/320)	(220/360)	
40-50		50/110	50/110	200/440	300/500	
		(36/80)	(36/80)	(140/320)	(220/360)	
A Chuck						
A40		40/90	50/110	200/440	300/500	
		(29/65)	(36/80)	(140/320)	(220/360)	
A50		50/110	50/110	200/440	300/500	
		(36/80)	(36/80)	(140/320)	(220/360)	
A80				200/440	300/500	
				(140/320)	(220/360)	
P Chuck						
P40		40/90	50/110	200/440	300/500	
		(29/65)	(36/80)	(140/320)	(220/360)	
P50		50/110	50/110	200/440	300/500	
		(36/80)	(36/80)	(140/320)	(220/360)	

max. brake torque

A Chucks = A Series
Automatic Safety Chucks

P Chucks = P Series
Pneumatic Safety Chucks



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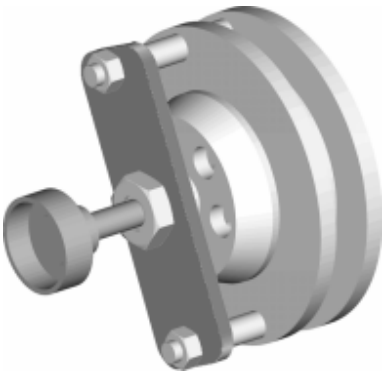
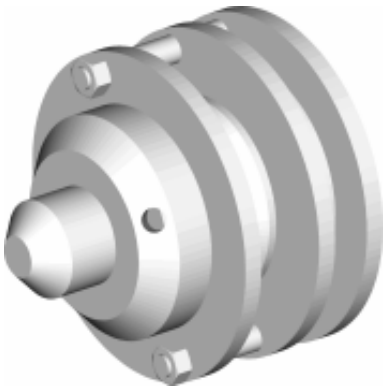
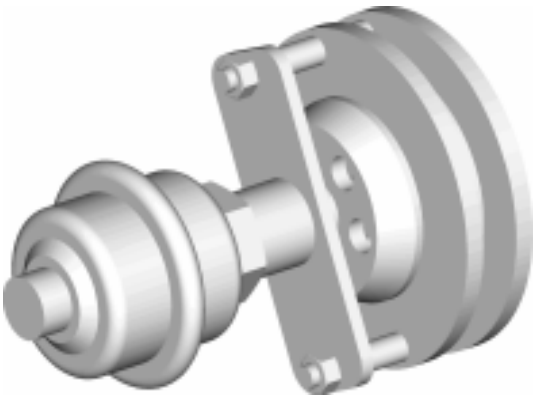
6.10 Single disc brake type ESB mini



Single disc brake manual



Single disc brake pneumatic



Single disc brake with
membrane cylinder I
for sensitive control

	ESB mini manual	ESB mini pneumatic	ESB mini membrane I
type mini			
performance kW (h.p.)	0.1 (0.075)	0.1 (0.075)	0.1 (0.075)
min. brake torque Nm (ft/lb)	1 (0.72)	3 (2.17)	2 (1.45)
max. brake torque Nm (ft/lb)	30 (22)	30 (22)	30 (22)

Form for calculation and enquiries see chapter 9.00

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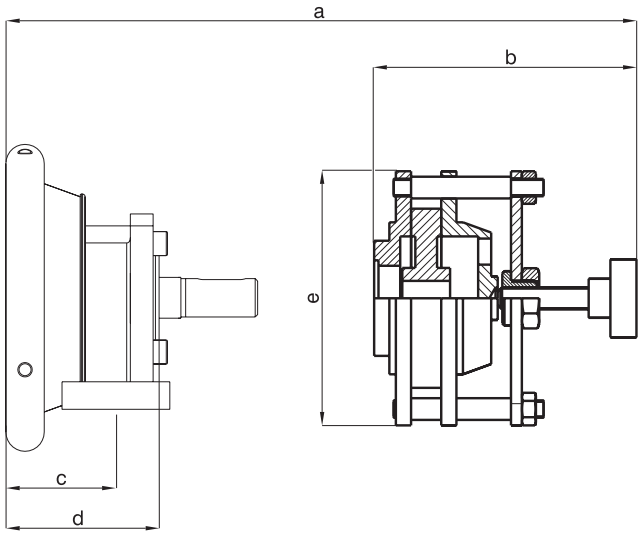
BOSCHERT

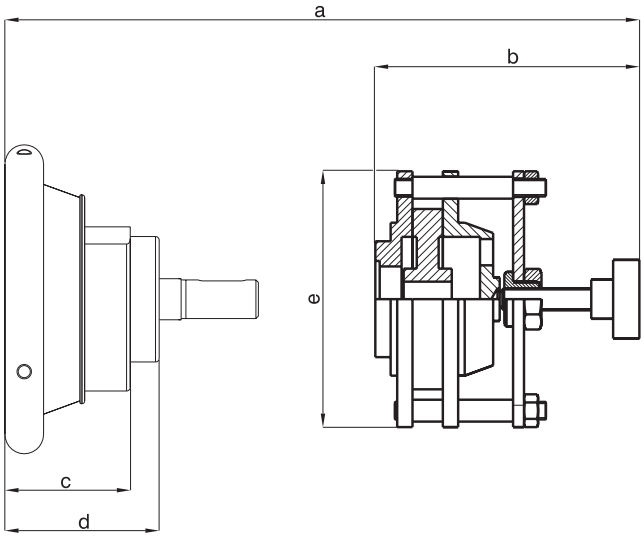
Foot mounted chuck with manual single disc brake



picture of chuck just symbolic

	a	b	c	d	e
ST mini + ESB manual	174	110	46.5	64	Ø 117

Flange mounted chuck with manual single disc brake



picture of chuck just symbolic

	a	b	c	d	e
FL mini + ESB manual	174	110	52	64	Ø 117

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.50

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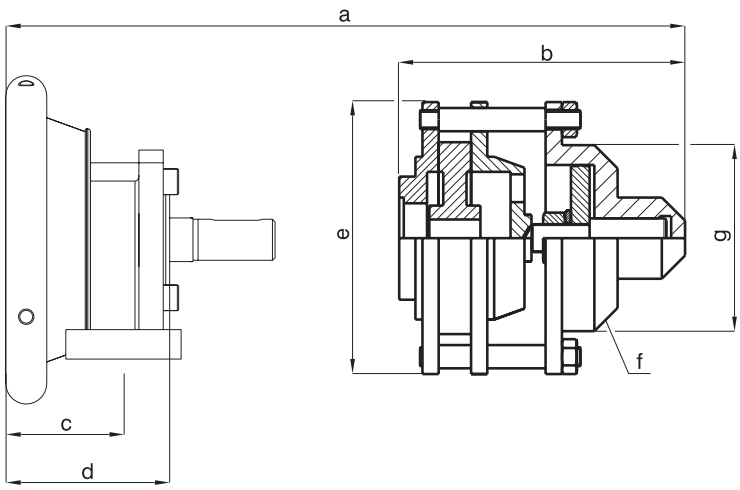
Changes reserved (a)

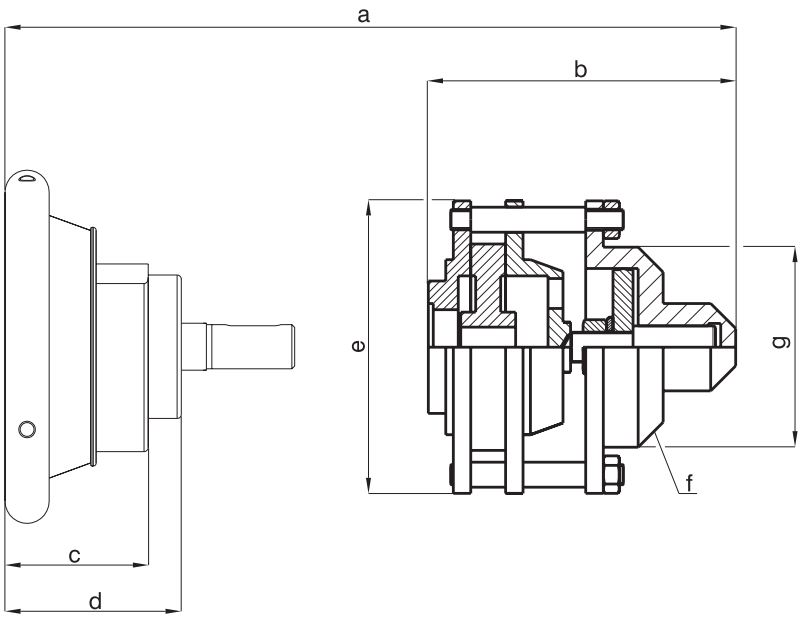
Foot mounted chuck with single disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST mini+ ESB pneumatic	189	128	46.5	64	Ø 117	G 1/8	Ø 80

Flange mounted chuck with single disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL mini + ESB pneumatic	189	128	52	64	Ø 117	G 1/8	Ø 80

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.50

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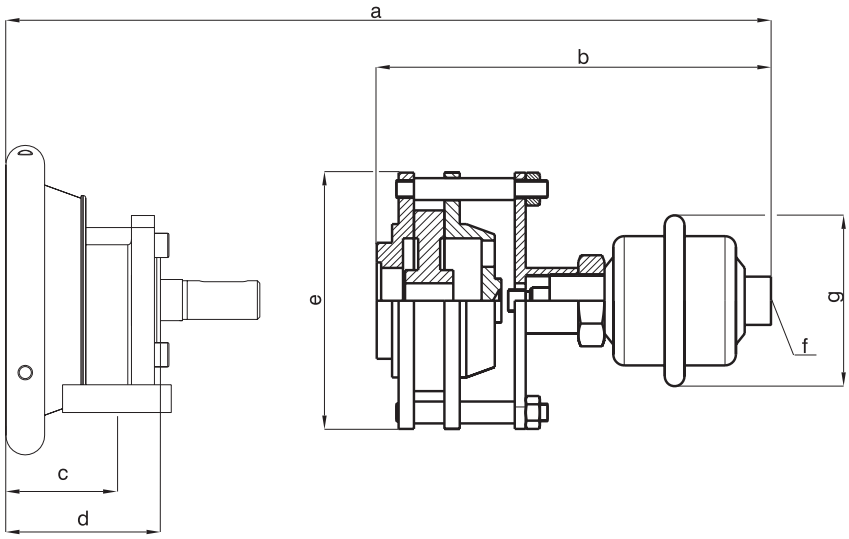
BOSCHERT

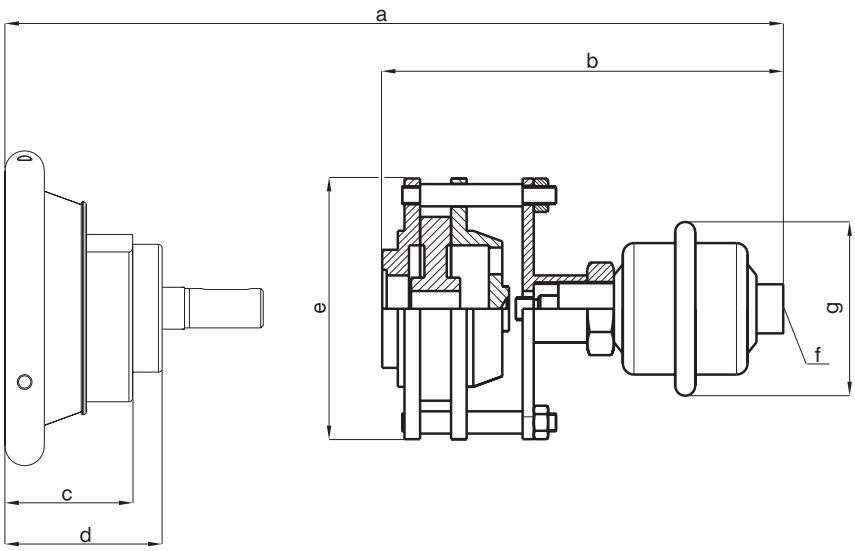
Foot mounted chuck with single disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST mini + ESB membrane I	234	170	46.5	64	Ø 117	G 1/4	Ø 78

Flange mounted chuck with single disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL mini + ESB membrane I	234	170	52	64	Ø 117	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.50

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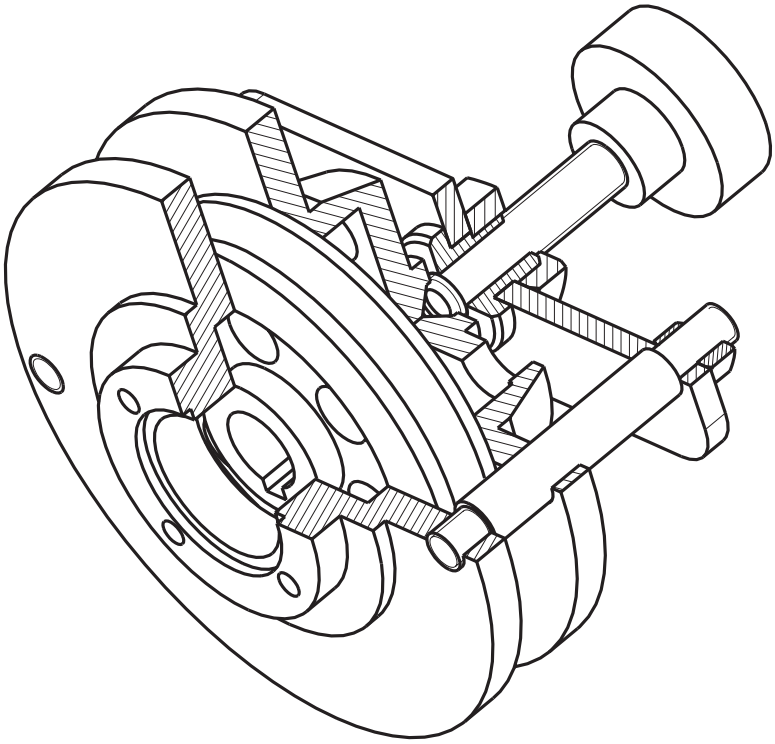
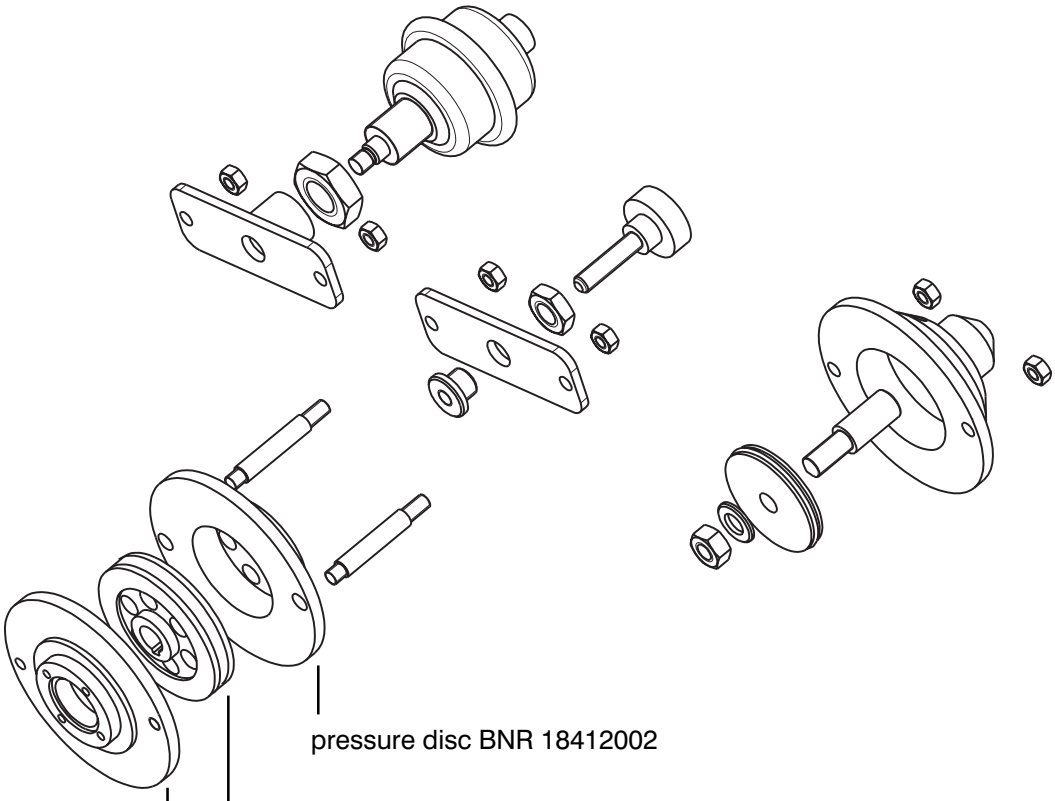
Changes reserved (a)

ESB mini
wearing-parts

BOSCHERT





pressure disc BNR 18412002

brake disc BNR 18412005
1 set linings (2 pieces) Ø 82,5 x Ø 57 x 3,2 to glue BNR 18412007

flange disc BNR 18412001

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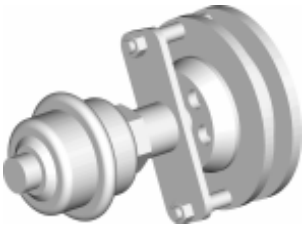
ESB Mini
performance diagrams

ESB Mini manual

ESB Mini pneumatic

ESB Mini membrane I



1 Nm = 0.7234 ft/lb

6.15

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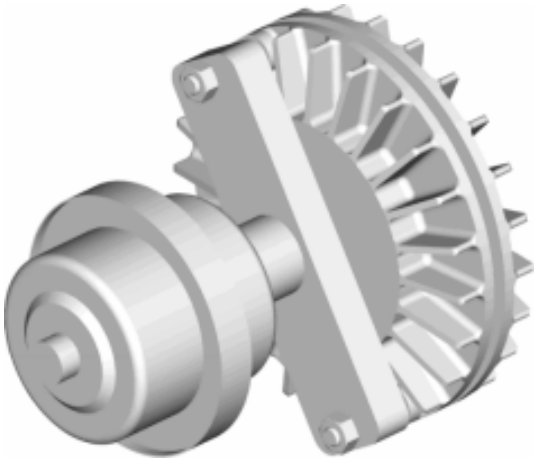
Changes reserved

6.20 Single disc brake type ESB

Single disc brake manual

Single disc brake pneumatic

Single disc brake with membrane cylinder I for sensitive control



Single disc brake with membrane cylinder II for sensitive control

	ESB manual	ESB pneumatic	ESB membrane I	ESB membrane II
type 19-25				
performance kW (h.p.)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)
min. brake torque Nm (ft/lb)	2 (1.45)	5 (3.62)	3 (2.17)	8 (5.79)
max. brake torque Nm (ft/lb)	40 (29)	40 (29)	40 (29)	90 (65)
type 22-30				
performance kW (h.p.)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)
min. brake torque Nm (ft/lb)	2 (1.45)	5 (3.62)	3 (2.17)	8 (5.79)
max. brake torque Nm (ft/lb)	40 (29)	40 (29)	40 (29)	90 (65)
type 30-40				
performance kW (h.p.)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)	0.15 (0.112)
min. brake torque Nm (ft/lb)	2 (1.45)	5 (3.62)	3 (2.17)	8 (5.79)
max. brake torque Nm (ft/lb)	40 (29)	40 (29)	40 (29)	90 (65)
type 40-50				
performance kW (h.p.)	0.2 (0.15)	0.2 (0.15)	0.2 (0.15)	0.2 (0.15)
min. brake torque Nm (ft/lb)	3 (2.17)	8 (5.79)	5 (3.62)	10 (7)
max. brake torque Nm (ft/lb)	50 (36)	50 (36)	50 (36)	110 (80)

Form for calculations and inquiries see chapter 9.00

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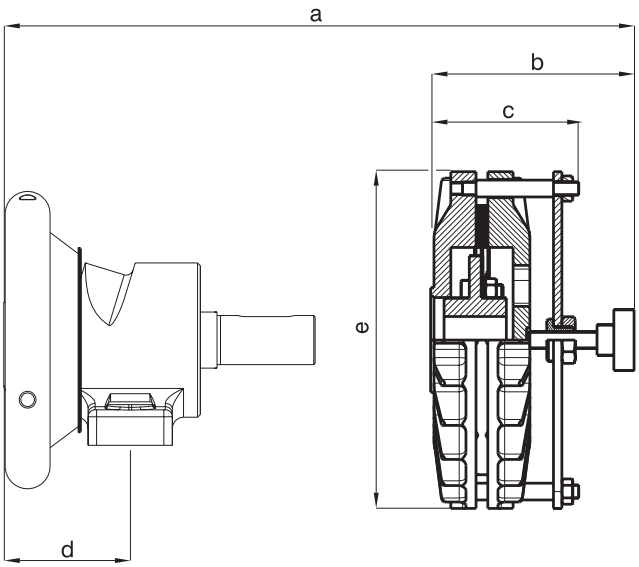
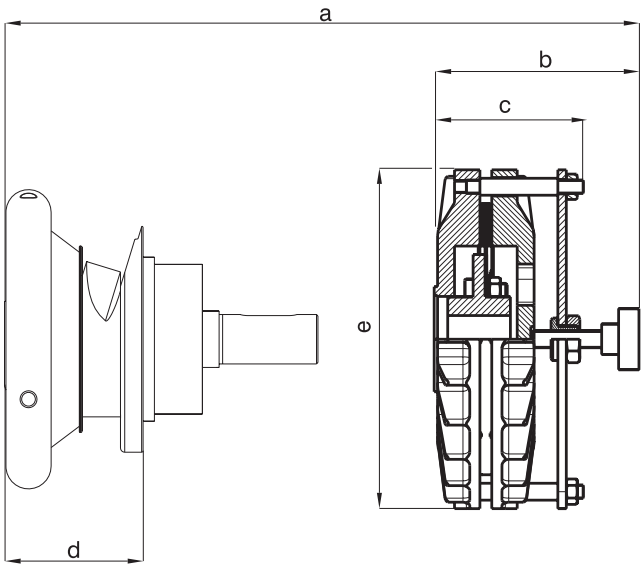
Foot mounted chuck with single disc brake manual



picture of chuck just symbolic

	a	b	c	d	e
ST 19 - 25 + ESB manual	235	118	86	70	Ø 200
ST 22 - 30 + ESB manual	241	118	86	78	Ø 200
ST 30 - 40 + ESB manual	258	118	86	90	Ø 200
ST 40 - 50 + ESB manual	327	136.5	110	84	Ø 235

Flange mounted chuck with single disc brake manual



picture of chuck just symbolic

	a	b	c	d	e
FL 19 - 25 + ESB manual	235	118	86	82	Ø 200
FL 22 - 30 + ESB manual	241	118	86	91	Ø 200
FL 30 - 40 + ESB manual	258	118	86	98	Ø 200
FL 40 - 50 + ESB manual	327	136.5	110	130	Ø 235

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40
Schedule for dimension diagram see page 5.50 - 5.51

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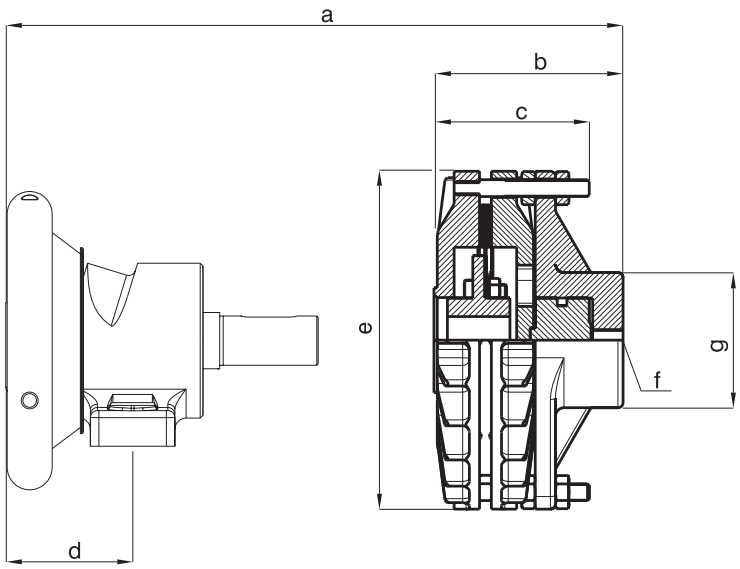
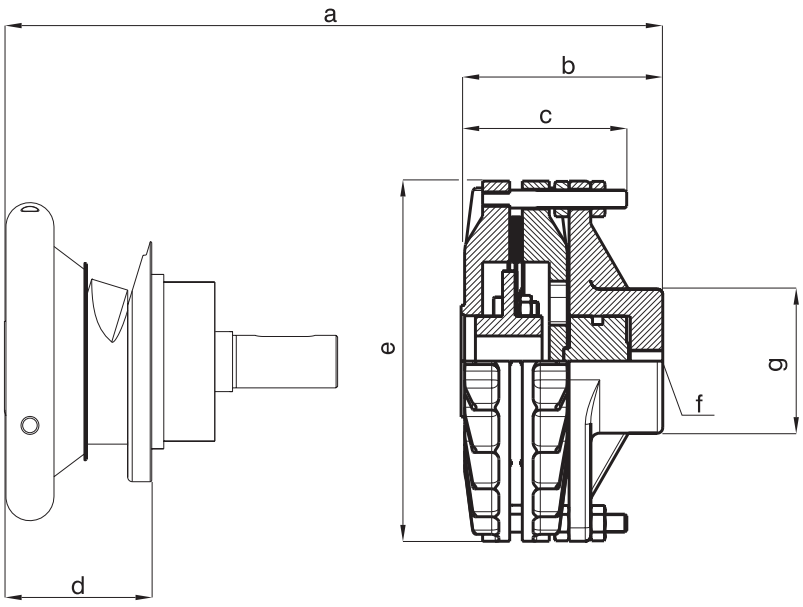
Foot mounted chuck with single disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 19 - 25 + ESB pneumatic	227	110	90	70	Ø 200	G 1/4	Ø 80
ST 22 - 30 + ESB pneumatic	233	110	90	78	Ø 200	G 1/4	Ø 80
ST 30 - 40 + ESB pneumatic	250	110	90	90	Ø 200	G 1/4	Ø 80
ST 40 - 50 + ESB pneumatic	324	133.5	107	84	Ø 235	G 1/4	Ø 80

Flange mounted chuck with single disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 19 - 25 + ESB pneumatic	227	110	90	82	Ø 200	G 1/4	Ø 80
FL 22 - 30 + ESB pneumatic	233	110	90	91	Ø 200	G 1/4	Ø 80
FL 30 - 40 + ESB pneumatic	250	110	90	98	Ø 200	G 1/4	Ø 80
FL 40 - 50 + ESB pneumatic	324	133.5	107	130	Ø 235	G 1/4	Ø 80

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40
Schedule for dimension diagram see page 5.50 - 5.51

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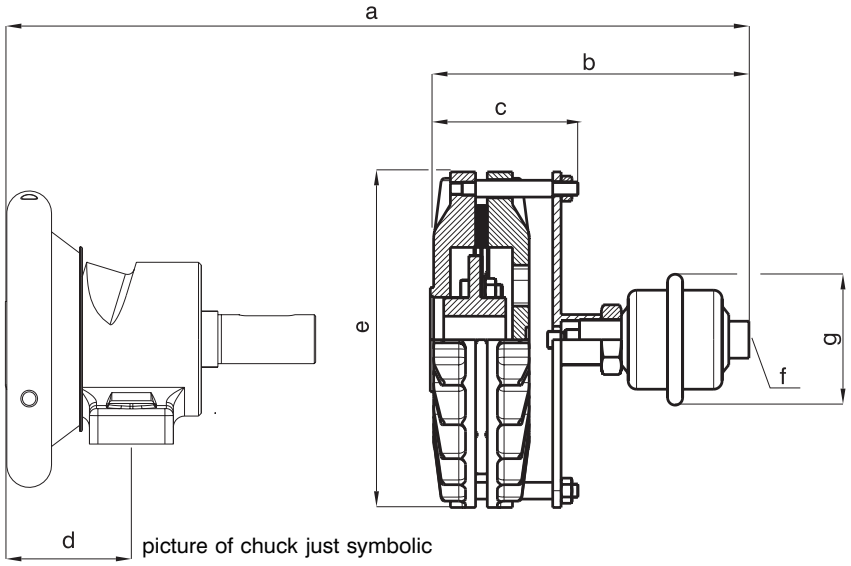
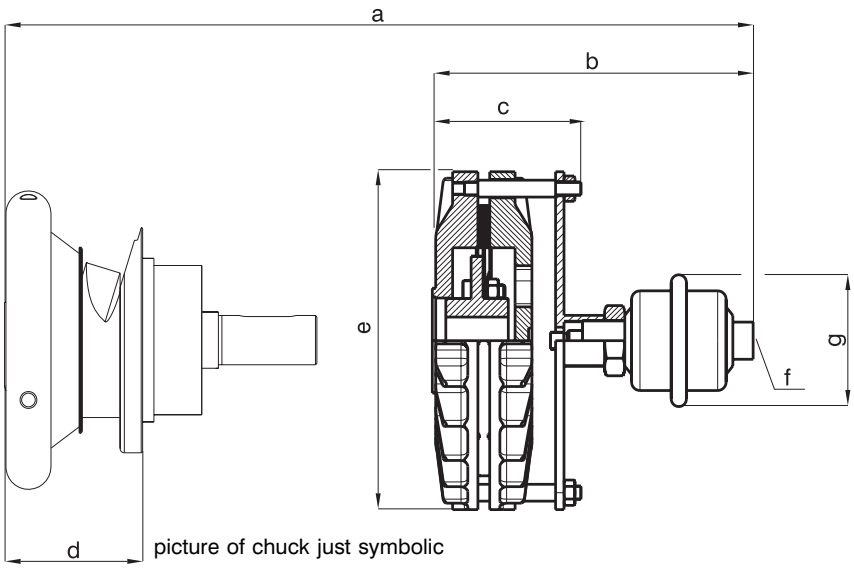
Foot mounted chuck with single disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 19 - 25 + ESB membrane I	292	175	86	70	Ø 200	G 1/4	Ø 78
ST 22 - 30 + ESB membrane I	298	175	86	78	Ø 200	G 1/4	Ø 78
ST 30 - 40 + ESB membrane I	315	175	86	90	Ø 200	G 1/4	Ø 78
ST 40 - 50 + ESB membrane I	389.5	199	110	84	Ø 235	G 1/4	Ø 78

Flange mounted chuck with single disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 19 - 25 + ESB membrane I	292	175	86	82	Ø 200	G 1/4	Ø 78
FL 22 - 30 + ESB membrane I	298	175	86	91	Ø 200	G 1/4	Ø 78
FL 30 - 40 + ESB membrane I	315	175	86	98	Ø 200	G 1/4	Ø 78
FL 40 - 50 + ESB membrane I	389.5	199	110	130	Ø 235	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40
Schedule for dimension diagram see page 5.50 - 5.51

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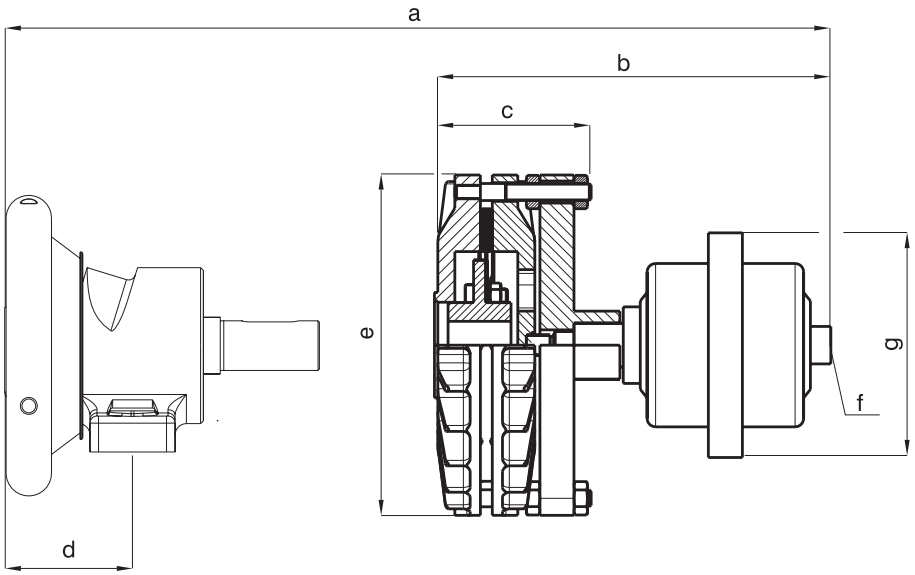
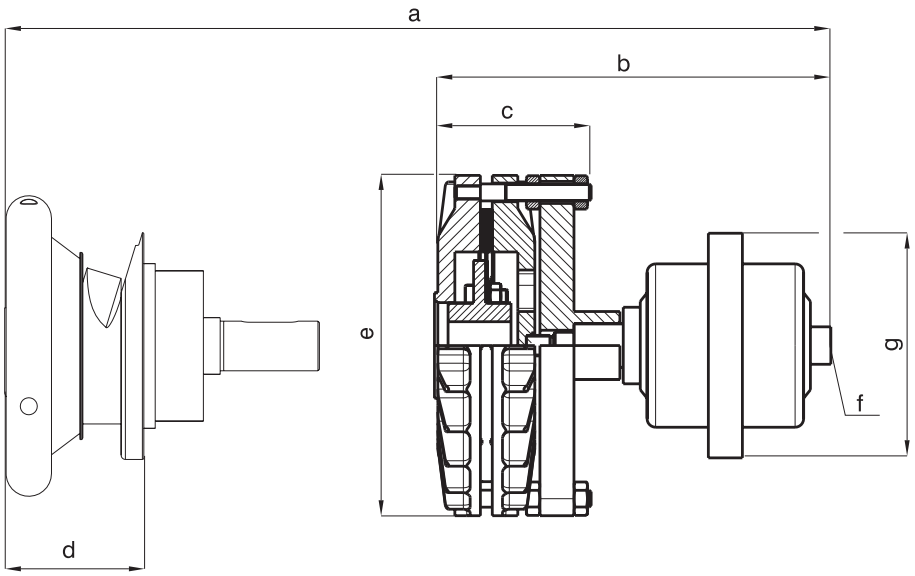
Foot mounted chuck with single disc brake and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 22 - 30 + ESB membrane II	354	231	90	78	Ø 200	G 1/4	Ø 132
ST 30 - 40 + ESB membrane II	371	231	90	90	Ø 200	G 1/4	Ø 132
ST 40 - 50 + ESB membrane II	440	250	84	84	Ø 235	G 1/4	Ø 132

Flange mounted chuck with single disc brake and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 22 - 30 + ESB membrane II	354	231	90	91	Ø 200	G 1/4	Ø 132
FL 30 - 40 + ESB membrane II	371	231	90	98	Ø 200	G 1/4	Ø 132
FL 40 - 50 + ESB membrane II	440	250	107	130	Ø 235	G 1/4	Ø 132

Dimension schedule for Boschert-Chuck see chapter 2.10 - 2.40
Schedule for dimension diagram see page 5.50 - 5.51

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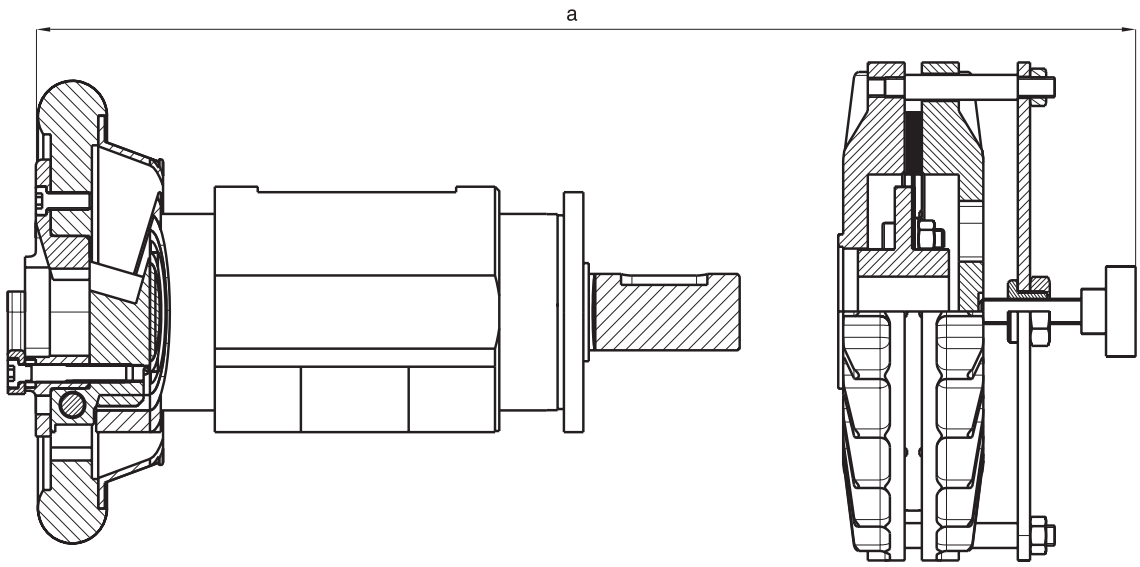
Overall dimension ESB with Sliding-, A- and P-Chuck



picture of chuck and brake just symbolic

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

	ESB manual	ESB pneumatic	ESB membrane I	ESB membrane II	dimension page chuck
dimension page brakes	**6.21**	**6.22**	**6.23**	**6.24**	
Sliding-Chuck					3.03 - 3.06
22-30					
50 mm adjustment	369	361	428	484	
30-40					
50 mm adjustment	372	364	432	488	
100 mm adjustment	472	464	532	588	
40-50					
50 mm adjustment	397	393,5	462	513	
100 mm adjustment	497	493,5	562	613	
A Chuck					
A40	289	286	351	402	4.21 - 4.22
A50	437	334	399	450	4.31 - 4.32
A80	417	414	479	530	4.41 - 4.42
P Chuck					
P40	338	330	395	451	4.61 - 4.62
P50	393	390	455	506	4.71 - 4.72

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

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

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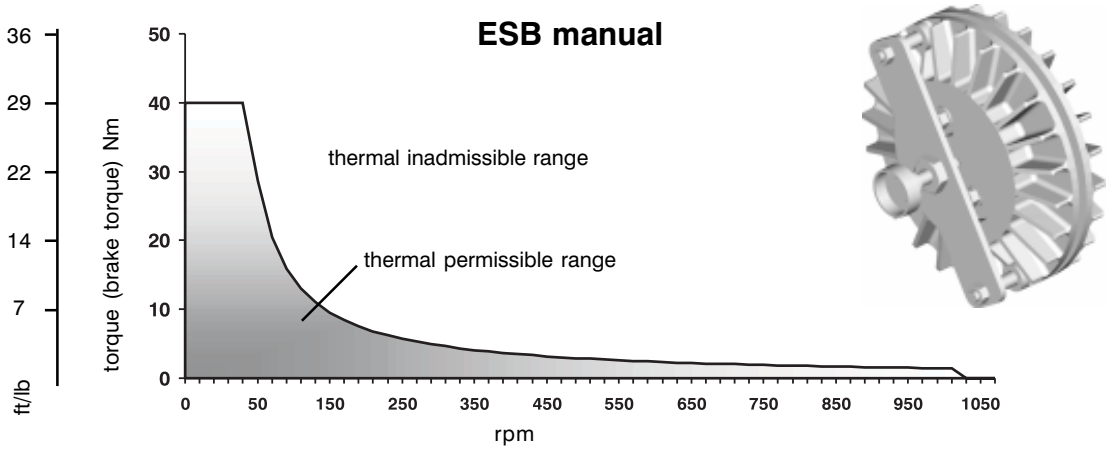
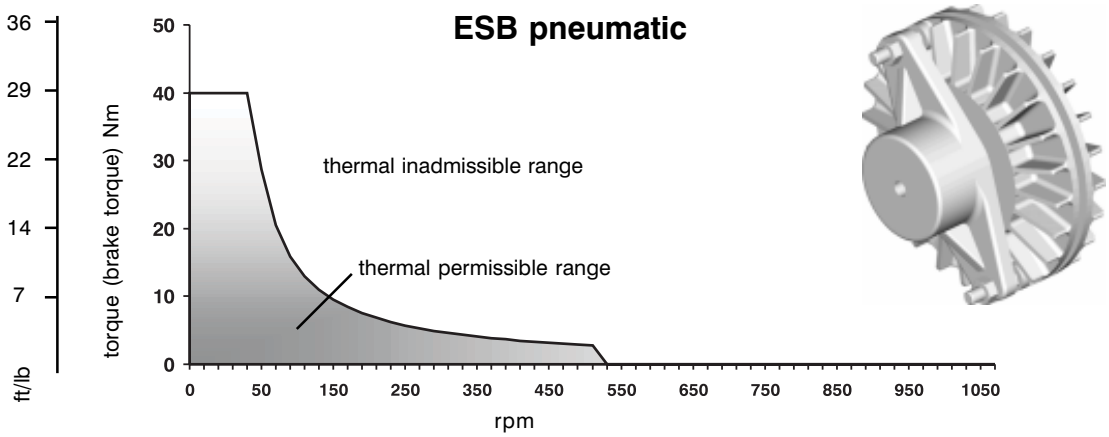
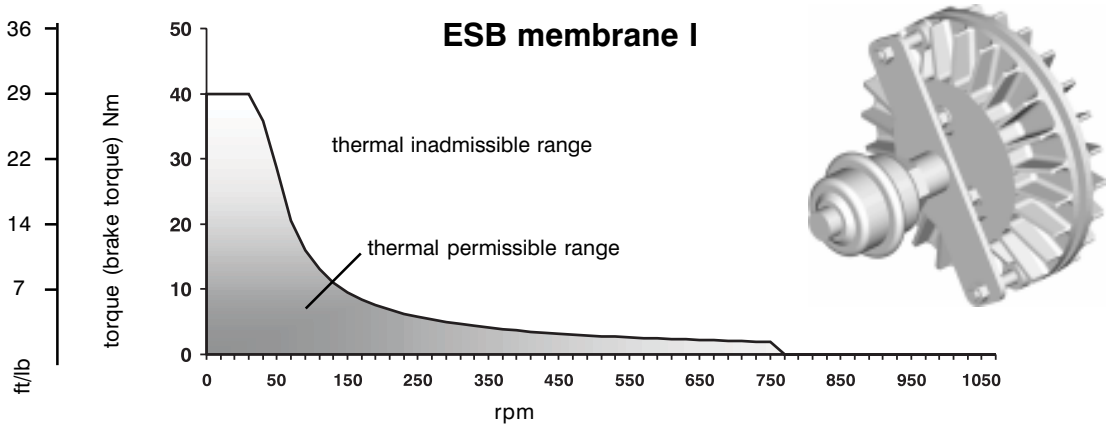
ESB manual



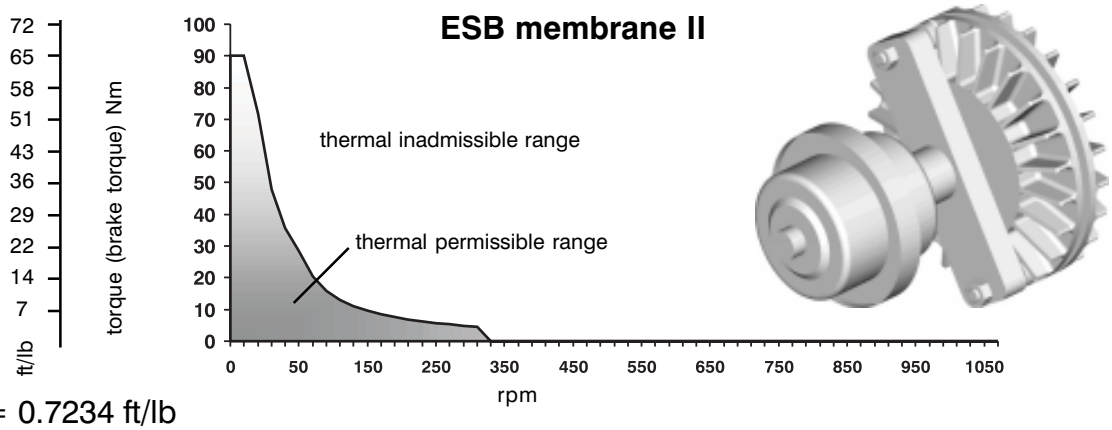
ESB pneumatic



ESB membrane I



ESB membrane II



1 Nm = 0.7234 ft/lb

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ESB performance diagrams type 40-50

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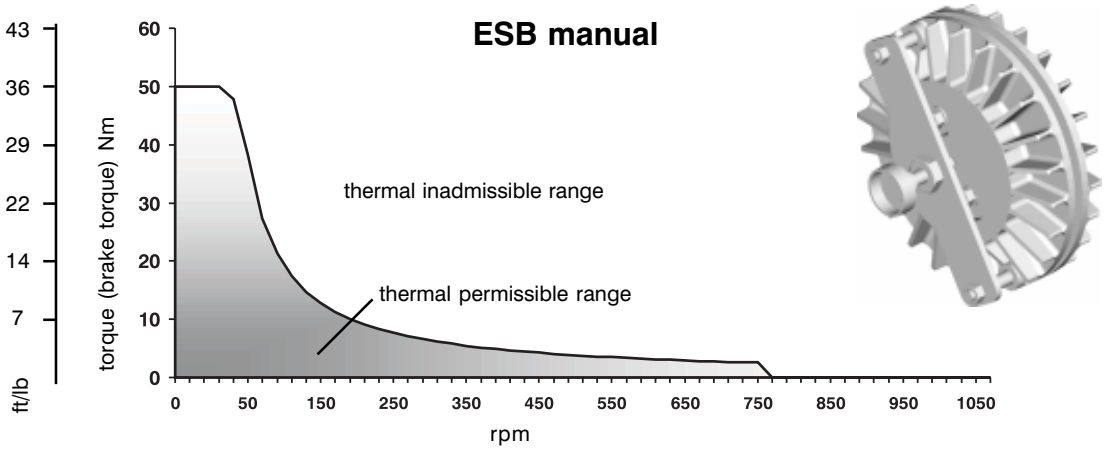
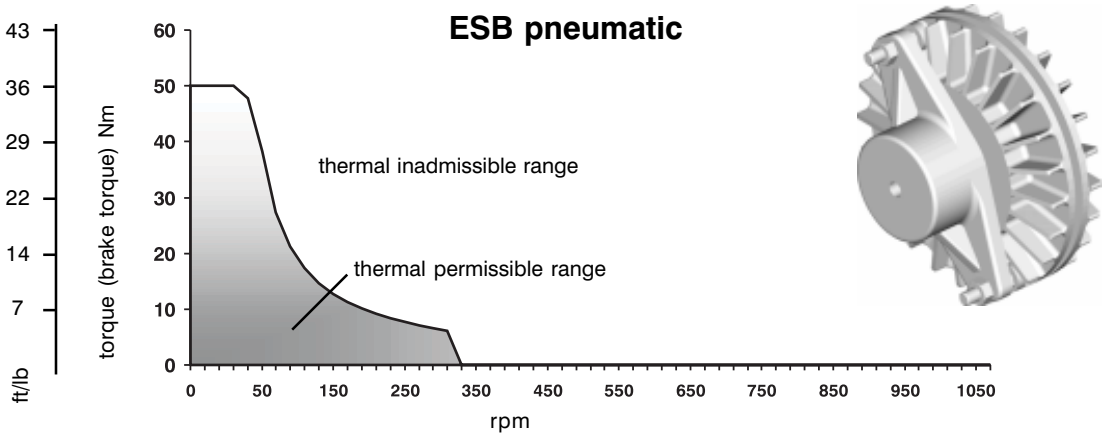
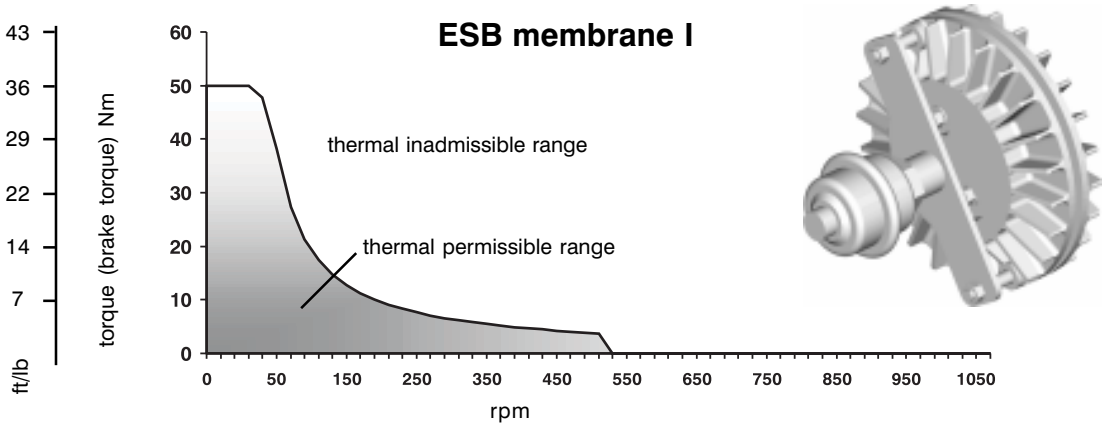
ESB manual



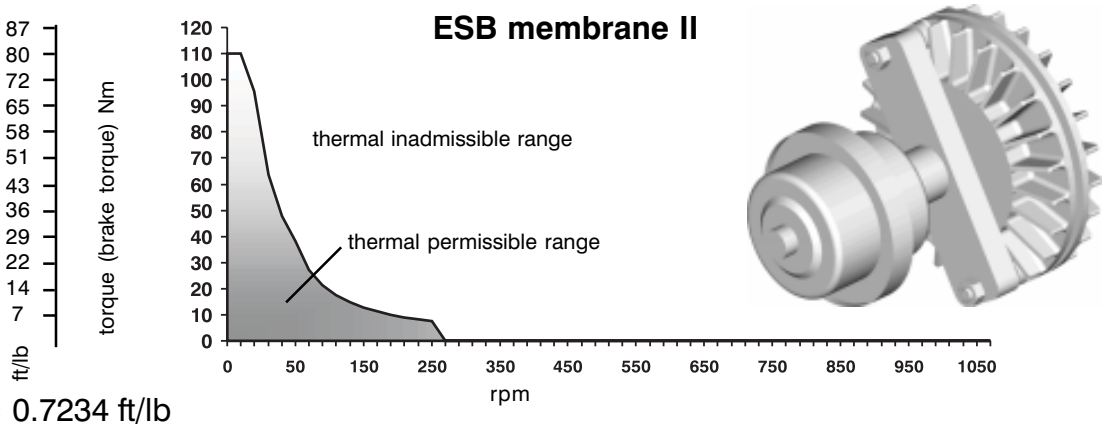
ESB pneumatic



ESB membrane I



ESB membrane II



1 Nm = 0.7234 ft/lb

6.27

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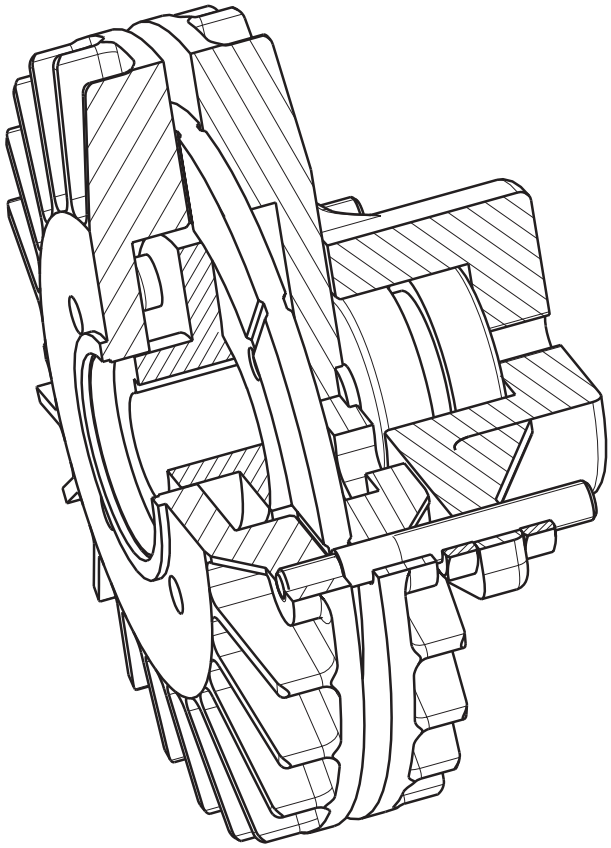
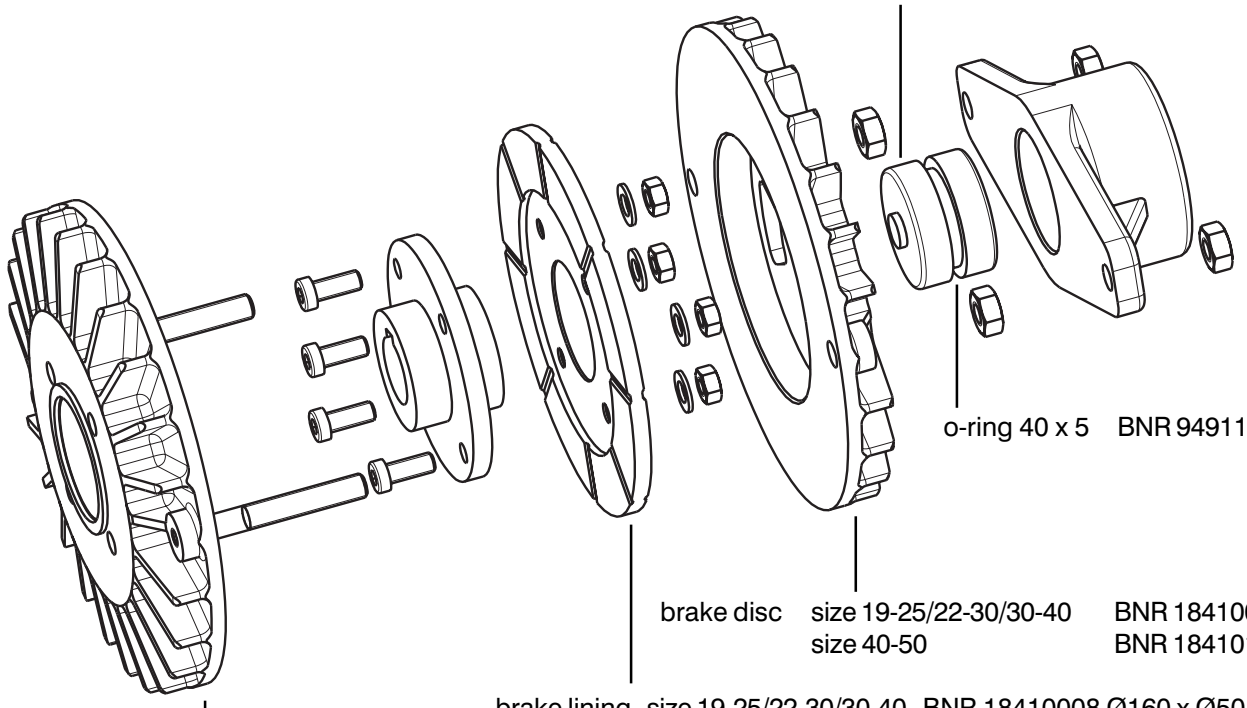
ESB
wearing-parts





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 BNR 18410008 Ø160 x Ø50 x 7
size 40-50 BNR 18410108 Ø180 x Ø75 x 7

flange disc size19-25/22-30/30-40 BNR 18410001
size 40-50 BNR 18410101

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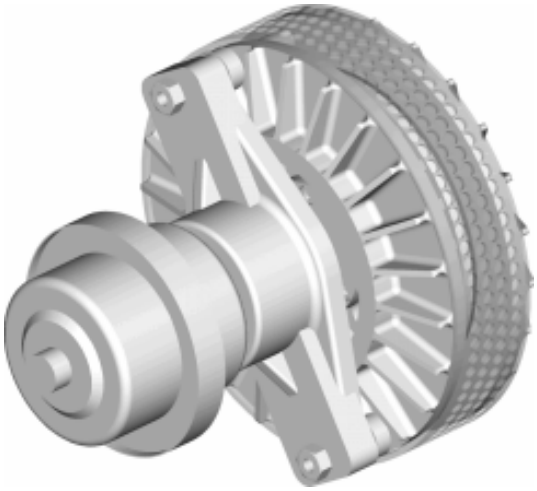
6.30 Single disc brake type ESB i

Single disc brake i manual

Single disc brake i pneumatic

Single disc brake i with membrane cylinder I for sensitive control



Single disc brake i with membrane cylinder II for sensitive control

	ESB i manual	ESB i pneumatic	ESB i membrane I	ESB i membrane II
type 30-40				
performance kW (h.p.)	0.4 (0.3)	0.4 (0.3)	0.4 (0.3)	0.4 (0.3)
min. brake torque Nm (ft/lb)	3 (2.17)	8 (5.79)	5 (3.62)	10 (7)
max. brake torque Nm (ft/lb)	50 (36)	50 (36)	50 (36)	110 (80)
type 40-50				
performance kW (h.p.)	0.4 (0.3)	0.4 (0.3)	0.4 (0.3)	0.4 (0.3)
min. brake torque Nm (ft/lb)	3 (2.17)	8 (5.79)	5 (3.62)	10 (7)
max. brake torque Nm (ft/lb)	50 (36)	50 (36)	50 (36)	110 (80)

Form for calculation and iquiries see chapter 9.00

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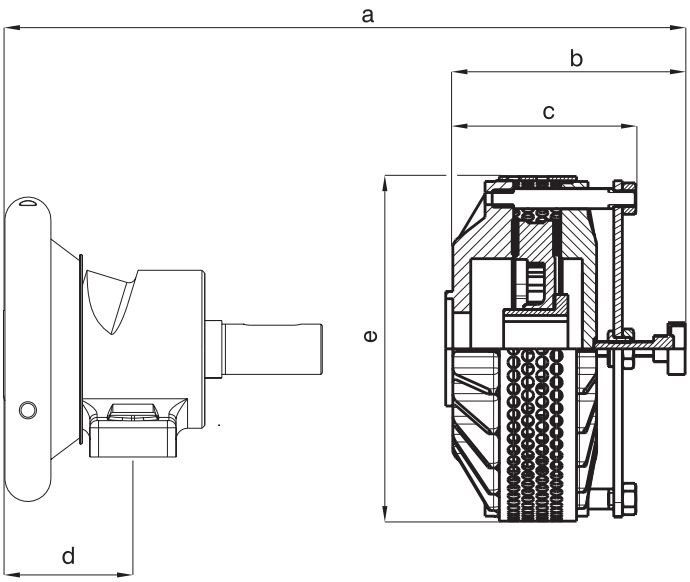
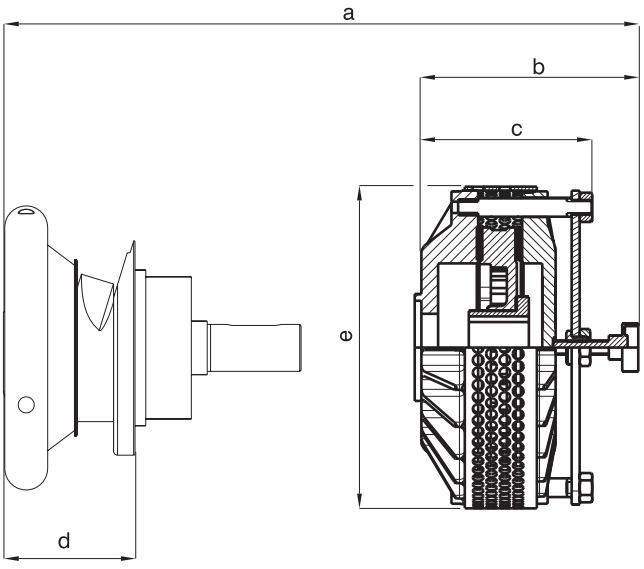
Foot mounted chuck with single disc brake i manual



picture of chuck just symbolic

	a	b	c	d	e
ST 30 - 40 + ESB i manual	298.5	158.5	128	90	Ø 247
ST 40 - 50 + ESB i manual	349	158.5	128	84	Ø 247

Flange mounted chuck with single disc brake i manual



picture of chuck just symbolic

	a	b	c	d	e
FL 30 - 40 + ESB i manual	298.5	158.5	128	98	Ø 247
FL 40 - 50 + ESB i manual	349	158.5	128	130	Ø 247

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.40
Schedule for dimension diagram see page 5.51

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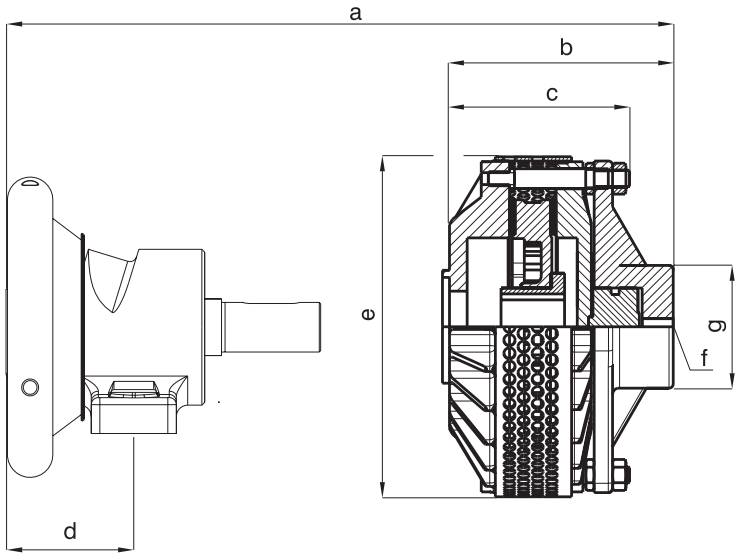
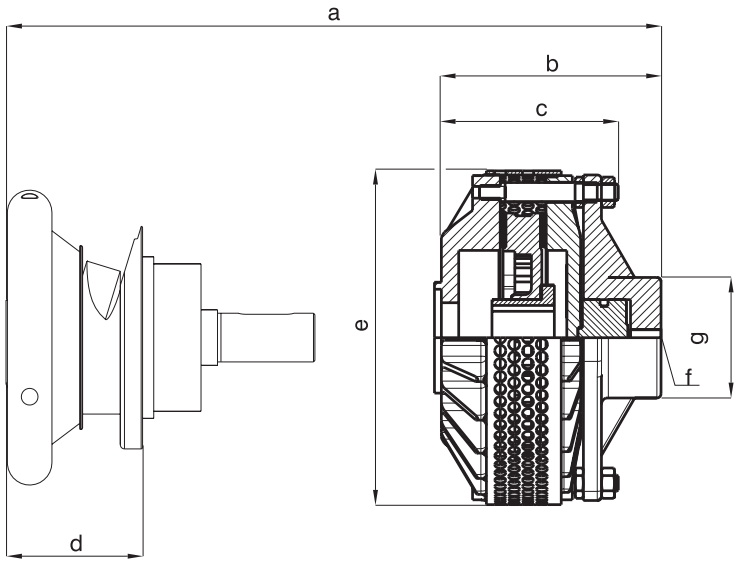
Foot mounted chuck with single disc brake i pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + ESB i pneumatic	297.5	157.5	128	90	Ø 247	G 1/4	Ø 80
ST 40 - 50 + ESB i pneumatic	348	157.5	128	84	Ø 247	G 1/4	Ø 80

Flange mounted chuck with single disc brake i pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + ESB i pneumatic	297.5	157.5	128	98	Ø 247	G 1/4	Ø 80
FL 40 - 50 + ESB i pneumatic	348	157.5	128	130	Ø 247	G 1/4	Ø 80

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.40
Schedule for dimension diagram see page 5.51

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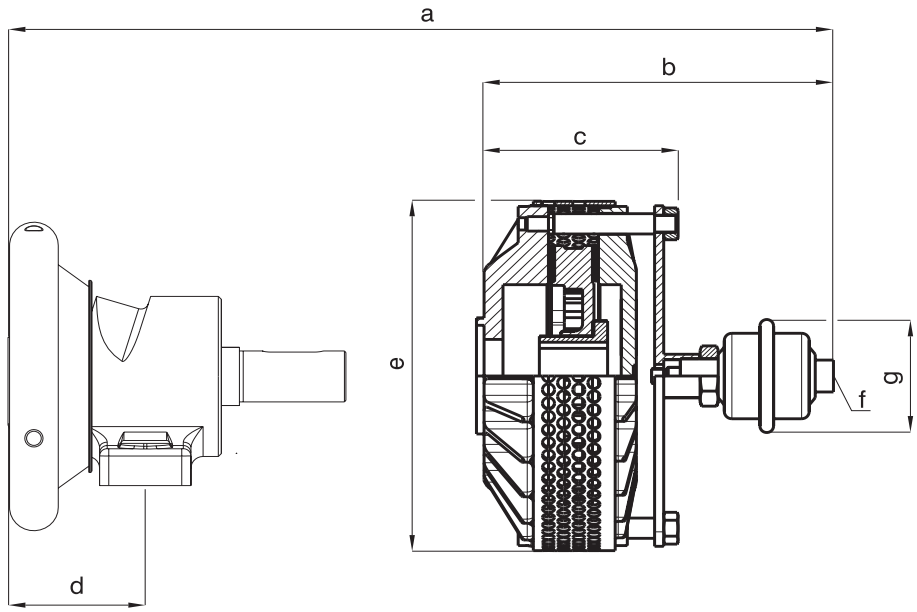
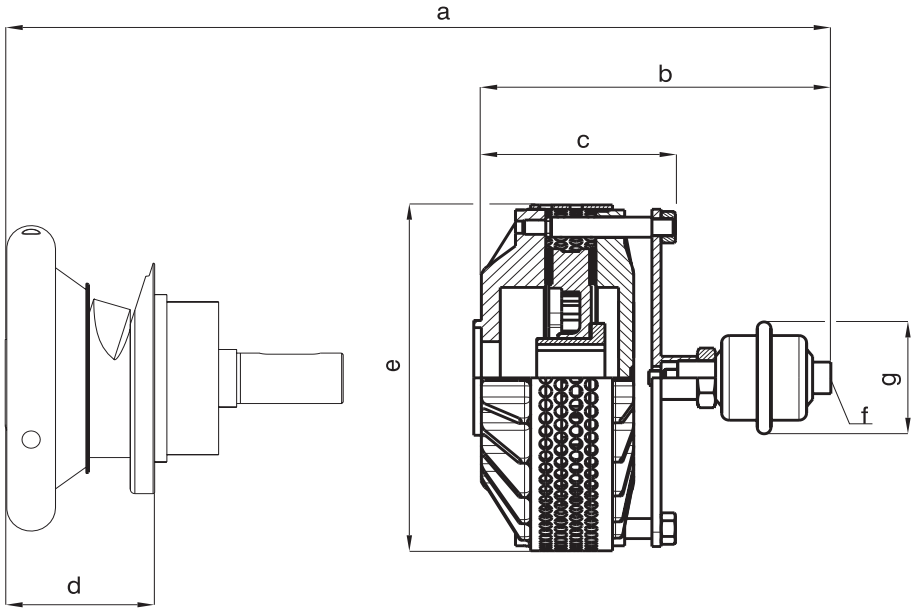
Foot mounted chuck with single disc brake i and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + ESB i membrane I	371	231	130	90	Ø 247	G 1/4	Ø 78
ST 40 - 50 + ESB i membrane I	421.5	231	130	84	Ø 247	G 1/4	Ø 78

Flange mounted chuck with single disc brake i and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + ESB i membrane I	371	231	130	98	Ø 247	G 1/4	Ø 78
FL 40 - 50 + ESB i membrane I	421.5	231	130	130	Ø 247	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.40
Schedule for dimension diagram see page 5.51

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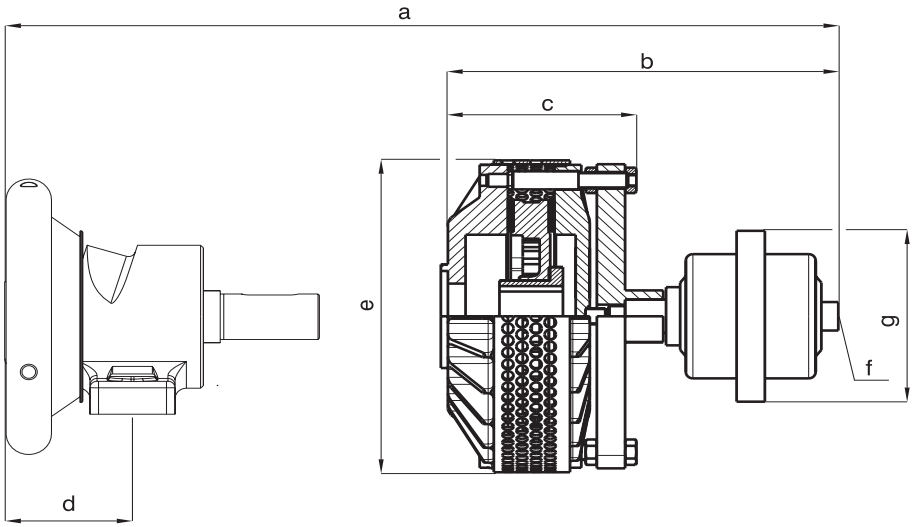
BOSCHERT

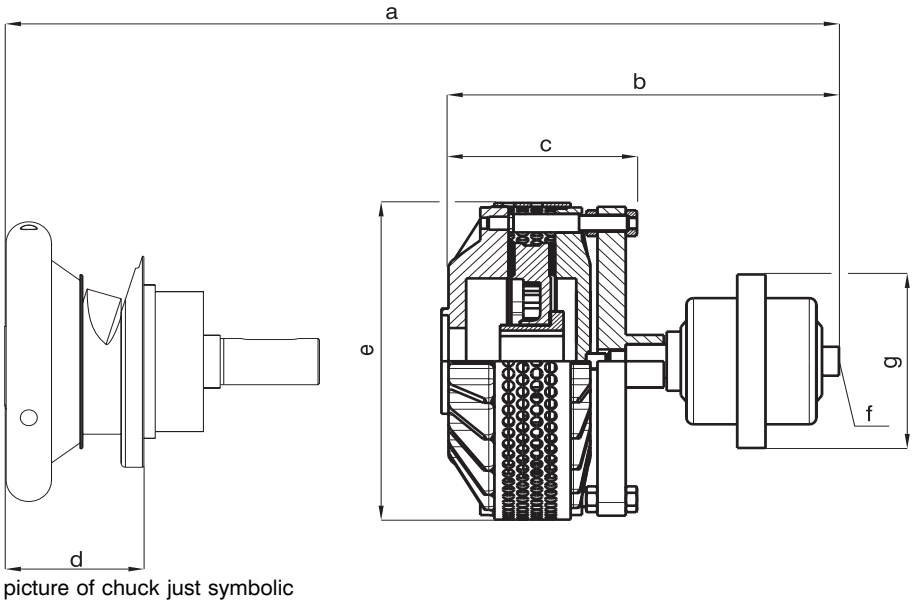
Foot mounted chuck with single disc brake i and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + ESB i membrane II	417	277	135	90	Ø 247	G 1/4	Ø 132
ST 40 - 50 + ESB i membrane II	467.5	277	135	84	Ø 247	G 1/4	Ø 132

Flange mounted chuck with single disc brake i and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + ESB i membrane II	471	277	135	98	Ø 247	G 1/4	Ø 132
FL 40 - 50 + ESB i membrane II	467.5	277	135	130	Ø 247	G 1/4	Ø 132

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.40
Schedule for dimension diagram see page 5.51

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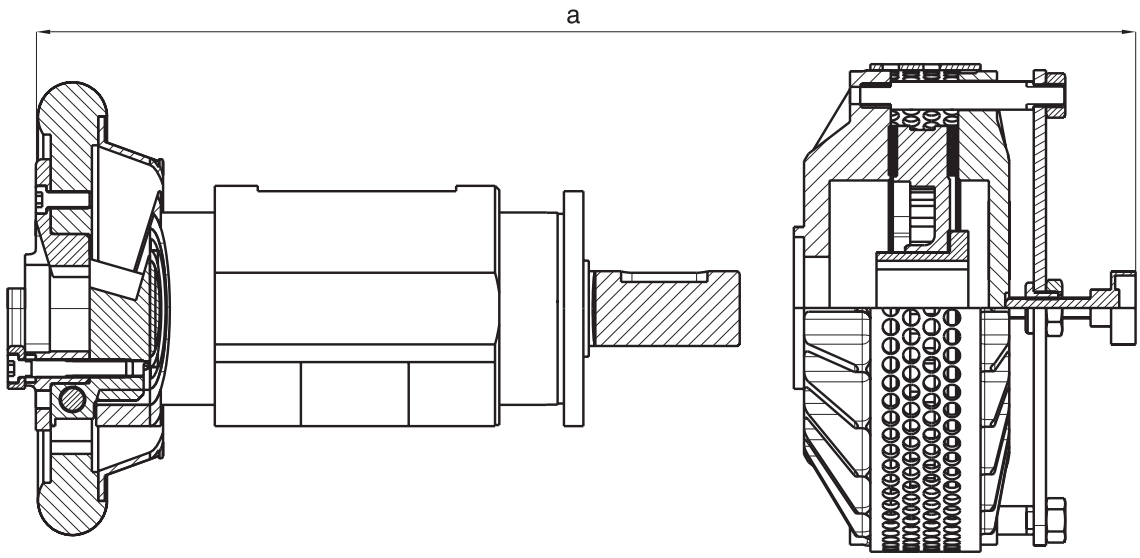
Overall dimension ESB i with Sliding-, A- and P-Chuck



picture of chuck and brake just symbolic

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

	ESB i manual	ESB i pneumatic	ESB i membrane I	ESB i membrane II	dimension page chuck
dimension page brakes	**6.31**	**6.32**	**6.33**	**6.34**	
Sliding-Chuck					3.03 - 3.06
22-30					
50 mm adjustment	369	361	428	484	
30-40					
50 mm adjustment	372	364	432	488	
100 mm adjustment	472	464	532	588	
40-50					
50 mm adjustment	397	394	462	513	
100 mm adjustment	497	494	562	613	
A Chuck					
A40	311	310	383	427	4.21 - 4.22
A50	359	358	431	477	4.31 - 4.32
A80	439	438	511	557	4.41 - 4.42
P Chuck					
P40	338	330	395	451	4.61 - 4.62
P50	393	390	455	506	4.71 - 4.72

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

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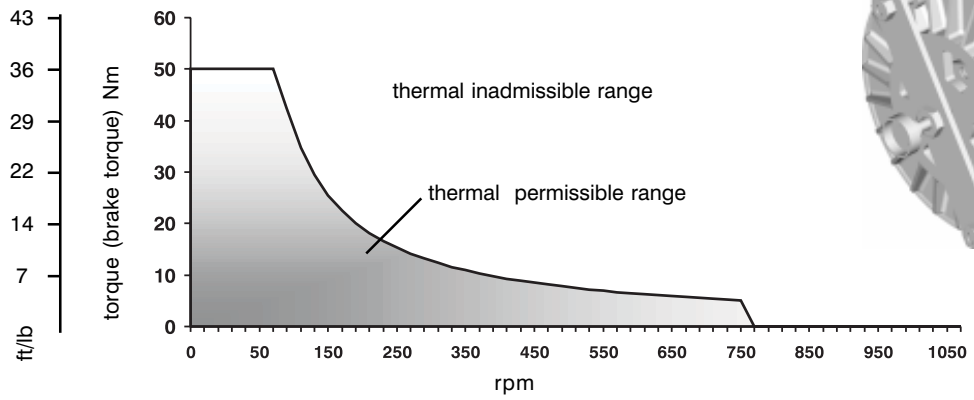
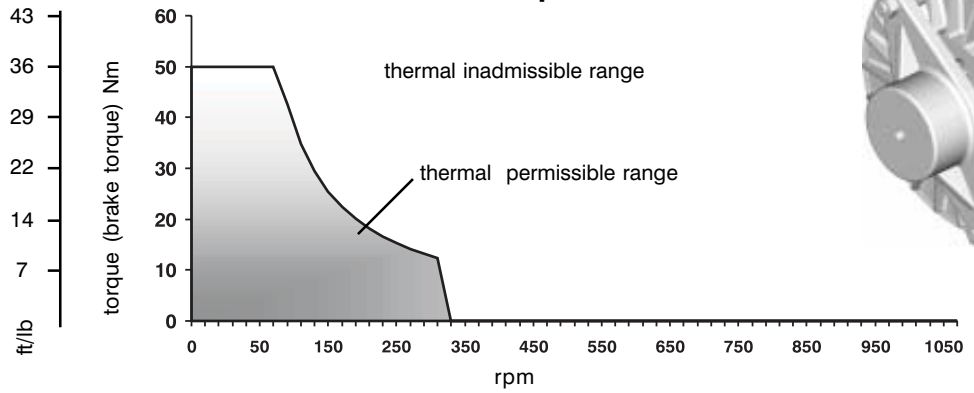
ESB i performance diagrams type 30-40/40-50

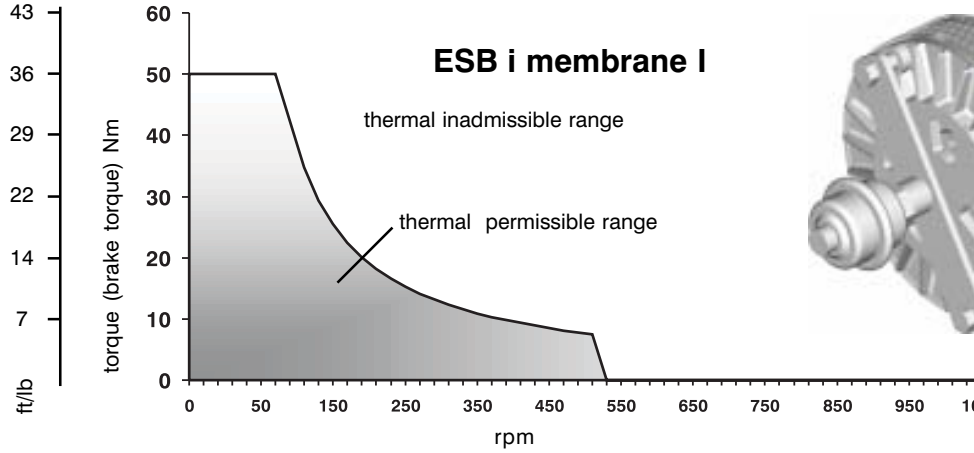
ESB i manual



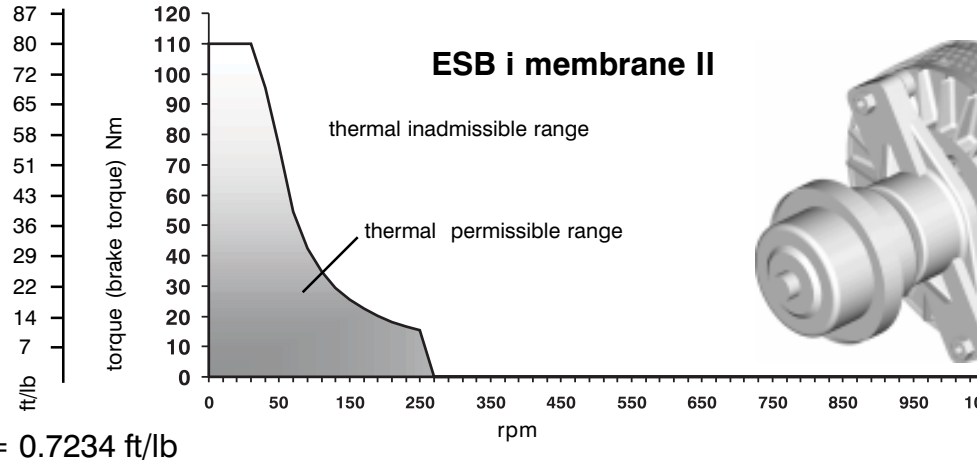
ESB i pneumatic



ESB i membrane I



ESB i membrane II



1 Nm = 0.7234 ft/lb

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ESB i
wearing-parts

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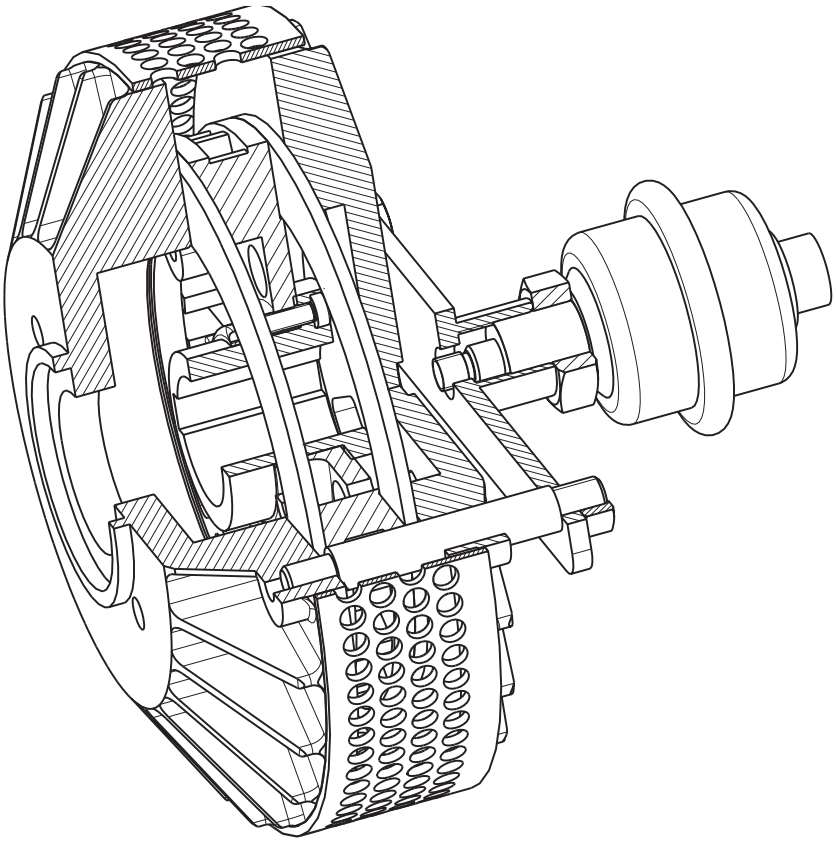

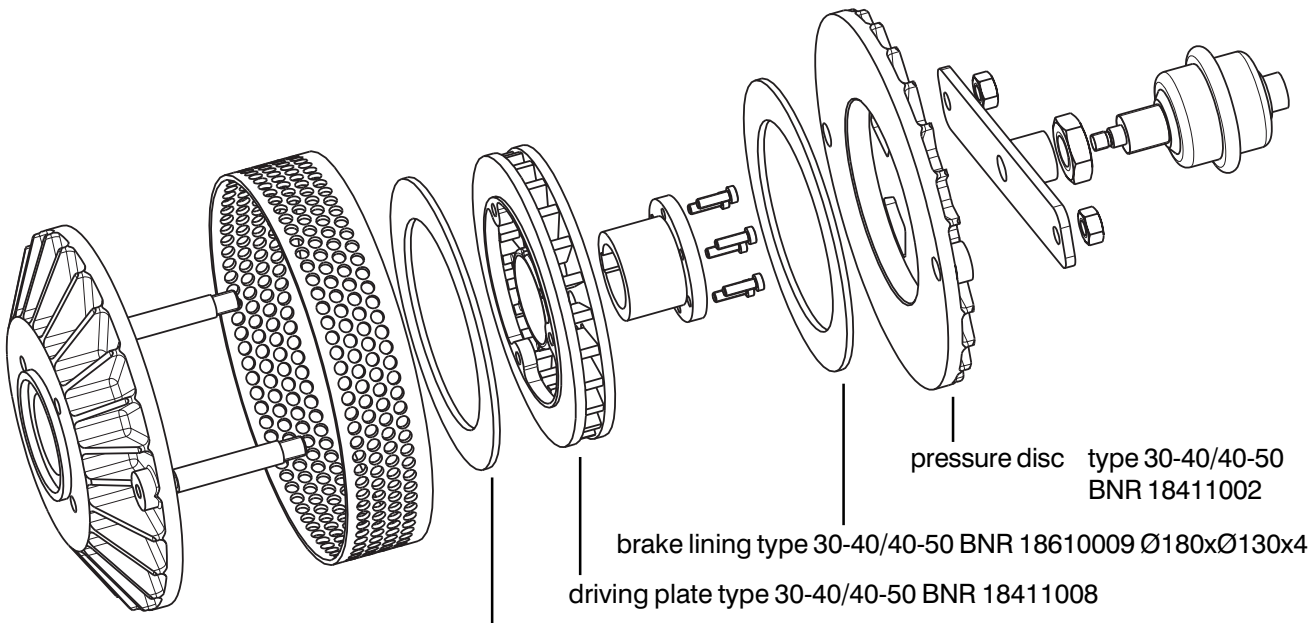

not shown in the drawing for ESB i pneumatic:

pneumatic piston	BNR 18410127
o-ring 45 x 5	BNR 94911000

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6.40 Double disc brake type DSB

Double disc brake manual

Double disc brake pneumatic

Double disc brake with membrane cylinder I for sensitive control

Double disc brake with membrane cylinder II for sensitive control

	DSB manual	DSB pneumatic	DSB membrane I	DSB membrane II
type 30-40				
performance kW (h.p.)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)
min. brake torque Nm (ft/lb)	8 (5.79)	20 (14)	10 (7)	30 (22)
max. brake torque Nm (ft/lb)	200 (140)	200 (140)	200 (140)	440 (320)
type 40-50				
performance kW (h.p.)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)
min. brake torque Nm (ft/lb)	8 (5.79)	20 (14)	10 (7)	30 (22)
max. brake torque Nm (ft/lb)	200 (140)	200 (140)	200 (140)	440 (320)
type 50-80				
performance kW (h.p.)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)	0.6 (0.45)
min. brake torque Nm (ft/lb)	8 (5.79)	20 (14)	10 (7)	30 (22)
max. brake torque Nm (ft/lb)	200 (140)	200 (140)	200 (140)	440 (320)

Form for calculation and enquiries see chapter 9.00

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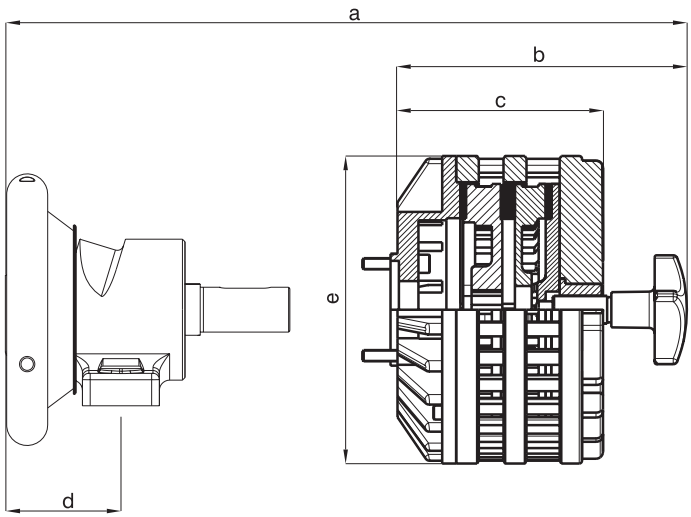
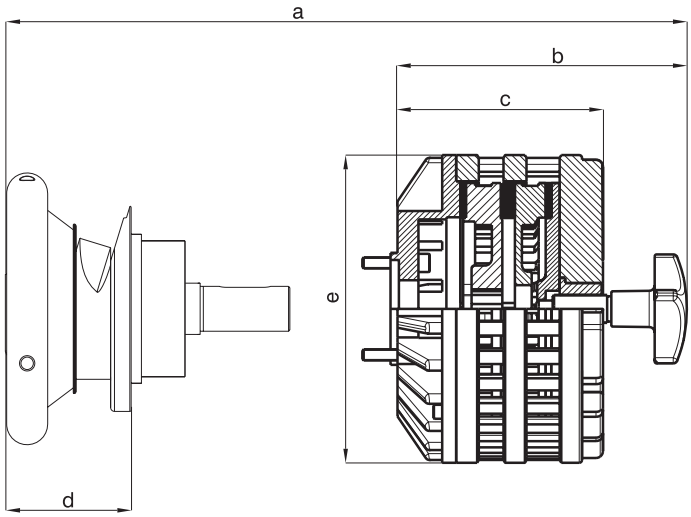
Foot mounted chuck with double disc brake manual



picture of chuck just symbolic

	a	b	c	d	e
ST 30 - 40 + DSB manual	352	212	147	90	Ø 220
ST 40 - 50 + DSB manual	402.5	212	147	84	Ø 220
ST 50 - 80 + DSB manual	472	212	147	124	Ø 220

Flange mounted chuck with double disc brake manual



picture of chuck just symbolic

	a	b	c	d	e
FL 30 - 40 + DSB manual	352	212	147	98	Ø 220
FL 40 - 50 + DSB manual	402.5	212	147	130	Ø 220
FL 50 - 80 + DSB manual	472	212	147	200	Ø 220

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Schedule for dimension diagram see page 5.52

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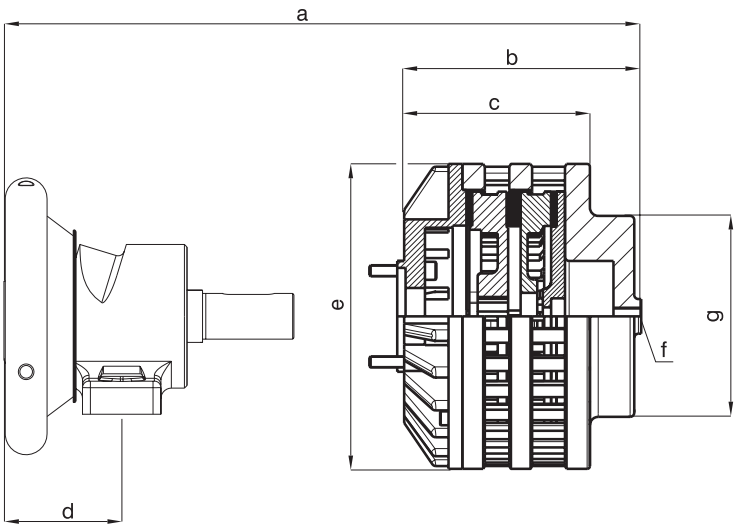
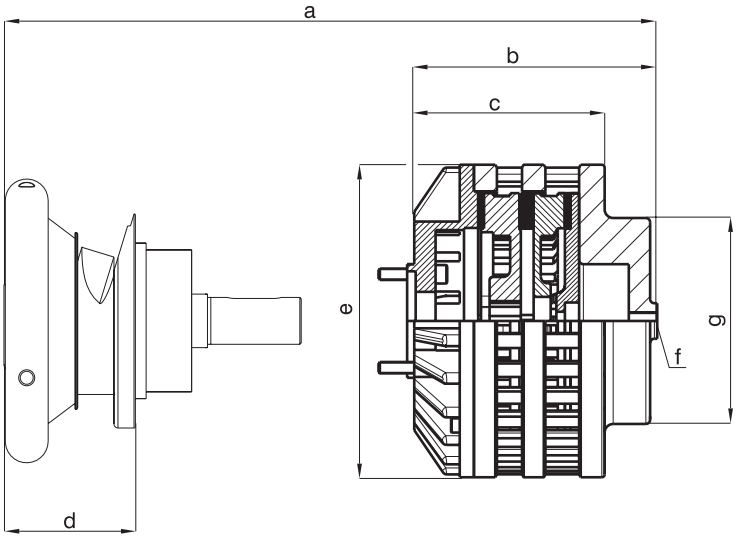
Foot mounted chuck with double disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + DSB pneumatic	310	170	165	90	Ø 220	G 1/4	Ø 145
ST 40 - 50 + DSB pneumatic	360.5	170	165	84	Ø 220	G 1/4	Ø 145
ST 50 - 80 + DSB pneumatic	430	170	165	124	Ø 220	G 1/4	Ø 145

Flange mounted chuck with double disc brake pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + DSB pneumatic	310	170	165	98	Ø 220	G 1/4	Ø 145
FL 40 - 50 + DSB pneumatic	360.5	170	165	130	Ø 220	G 1/4	Ø 145
FL 50 - 80 + DSB pneumatic	430	170	165	200	Ø 220	G 1/4	Ø 145

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Schedule for dimension diagram see page 5.52

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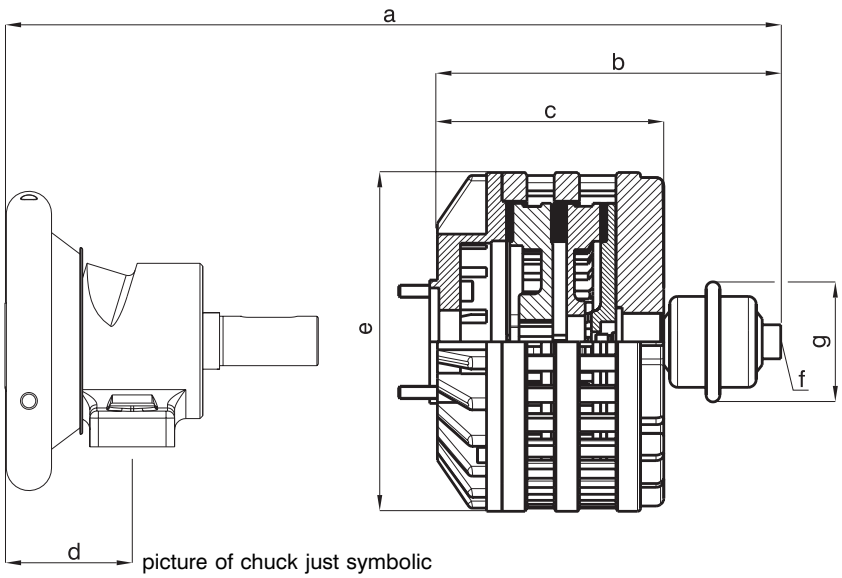
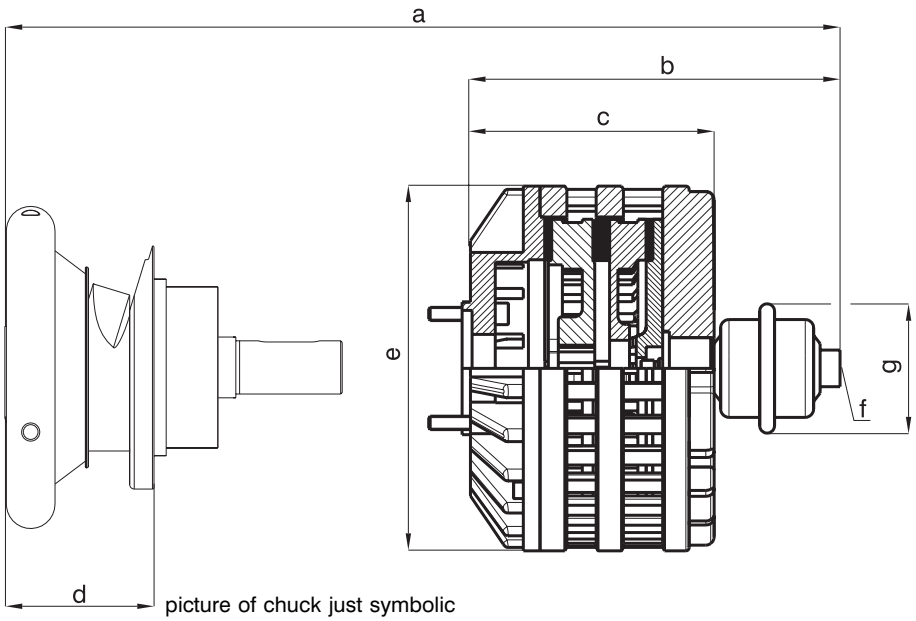
Foot mounted chuck with double disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + DSB membrane I	363	223	146	90	Ø 220	G 1/4	Ø 78
ST 40 - 50 + DSB membrane I	413.5	223	146	84	Ø 220	G 1/4	Ø 78
ST 50 - 80 + DSB membrane I	483	223	146	124	Ø 220	G 1/4	Ø 78

Flange mounted chuck with double disc brake and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + DSB membrane I	363	223	146	98	Ø 220	G 1/4	Ø 78
FL 40 - 50 + DSB membrane I	413.5	223	146	130	Ø 220	G 1/4	Ø 78
FL 50 - 80 + DSB membrane I	483	223	146	200	Ø 220	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Schedule for dimension diagram see page 5.52

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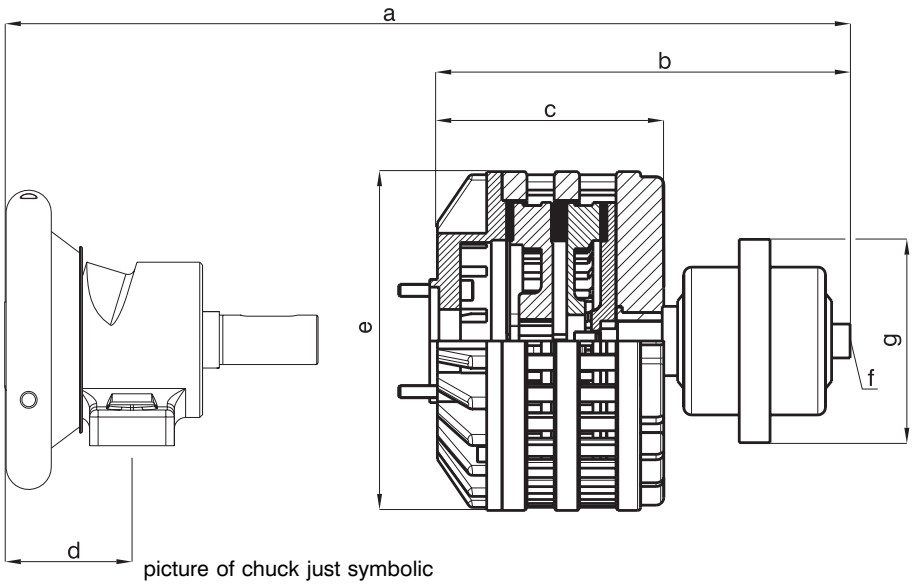
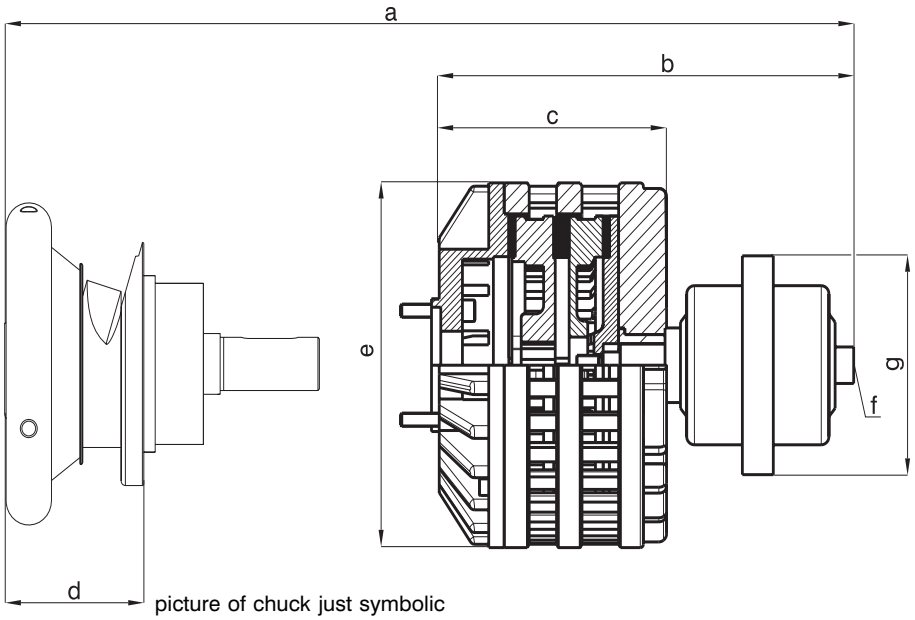
Foot mounted chuck with double disc brake and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 30 - 40 + DSB membrane II	423	283	146	90	Ø 220	G 1/4	Ø 132
ST 40 - 50 + DSB membrane II	473.5	283	146	84	Ø 220	G 1/4	Ø 132
ST 50 - 80 + DSB membrane II	543	283	146	124	Ø 220	G 1/4	Ø 132

Flange mounted chuck with double disc brake and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 30 - 40 + DSB membrane II	423	283	146	98	Ø 220	G 1/4	Ø 132
FL 40 - 50 + DSB membrane II	473.5	283	146	130	Ø 220	G 1/4	Ø 132
FL 50 - 80 + DSB membrane II	543	283	146	200	Ø 220	G 1/4	Ø 132

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Schedule for dimension diagram see page 5.52

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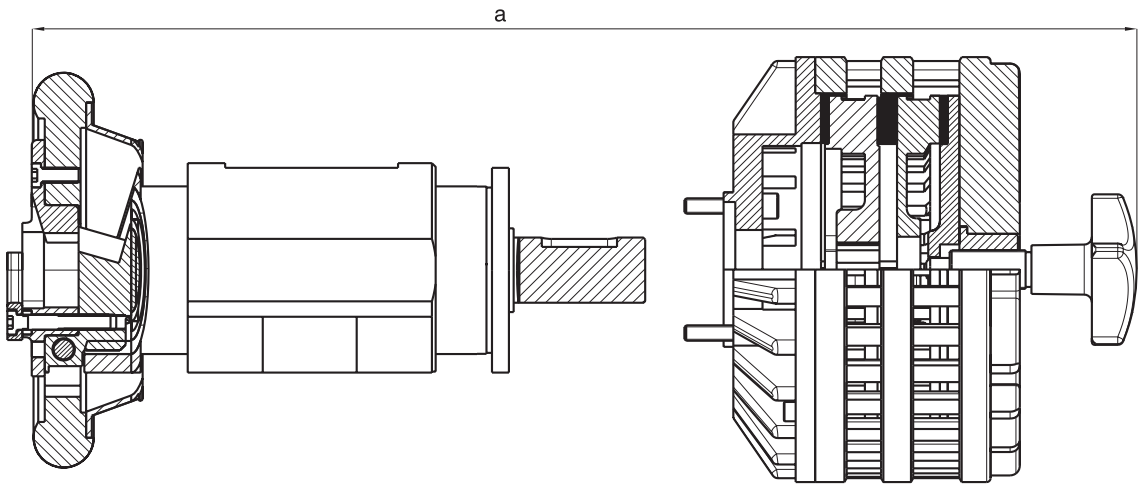
Overall dimension DSB with Sliding-, A- and P-chuck



picture of chuck and brake just symbolic

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

	DSB manual	DSB pneumatic	DSB membrane I	DSB membrane II	dimension page chuck
dimension page brakes	**6.41**	**6.42**	**6.43**	**6.44**	
Sliding-Chuck					3.03 - 3.06
30-40					
50 mm adjustment	469	427	540	540	
100 mm adjustment	569	527	640	640	
40-50					
50 mm adjustment	475	433	546	546	
100 mm adjustment	575	426	646	646	
A Chuck					
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
P Chuck					
P40	432	390	503	503	4.61 - 4.62
P50	468	426	539	539	4.71 - 4.72

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

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

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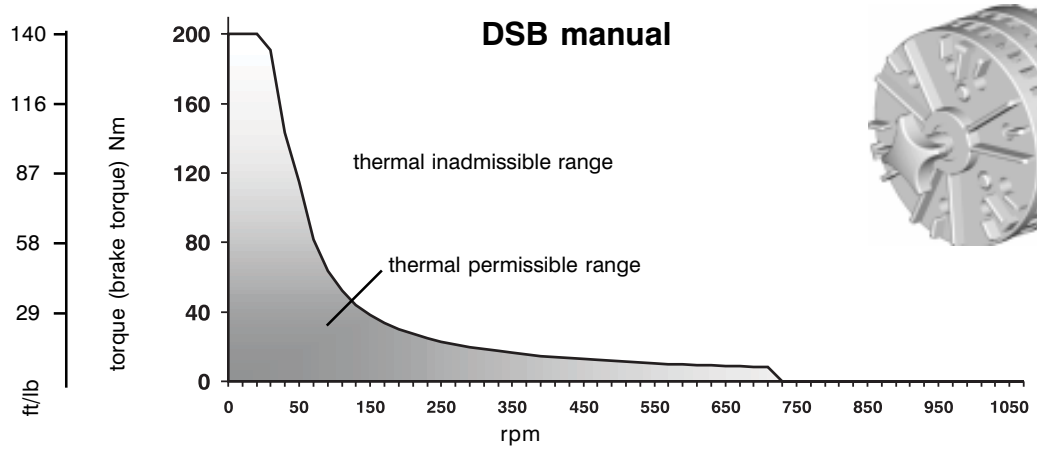
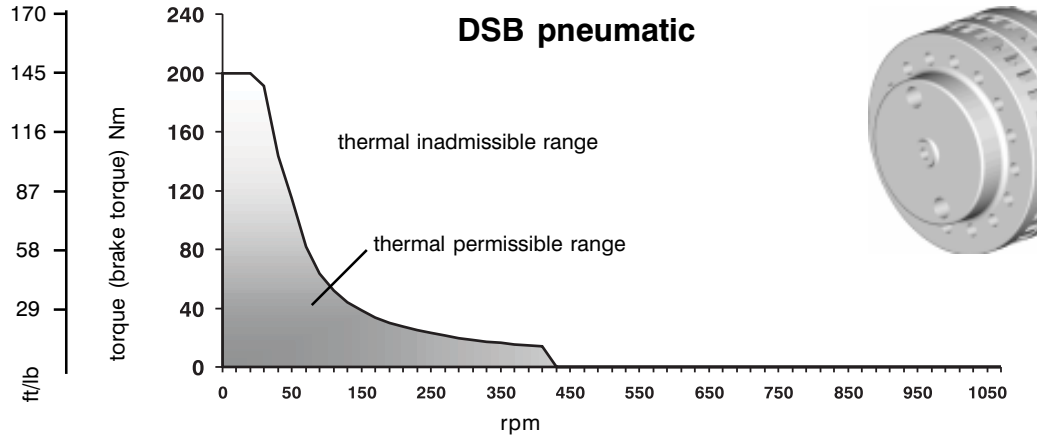
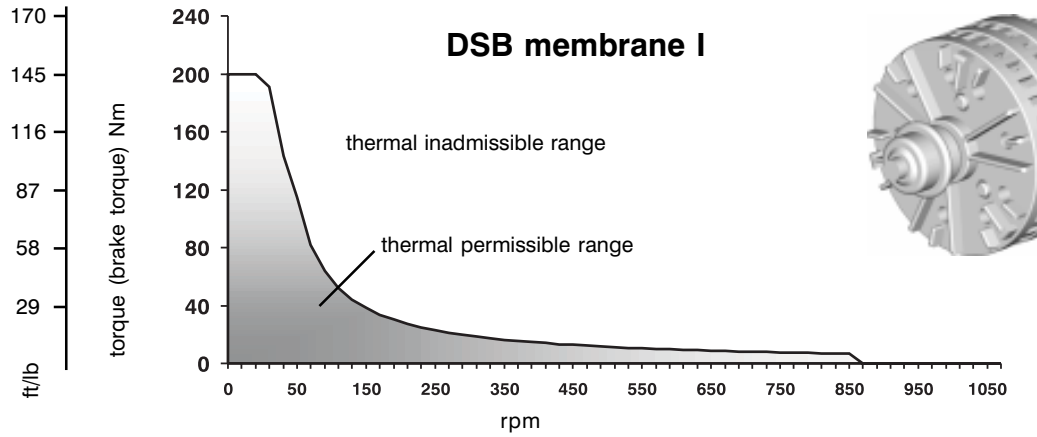
DSB manual



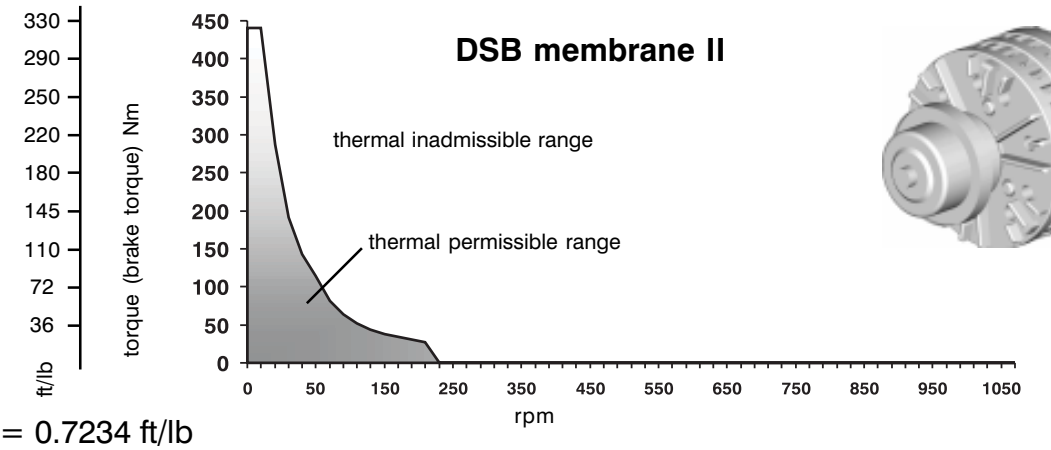
DSB pneumatic



DSB membrane I



DSB membrane II



1 Nm = 0.7234 ft/lb

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DSB
wearing-parts

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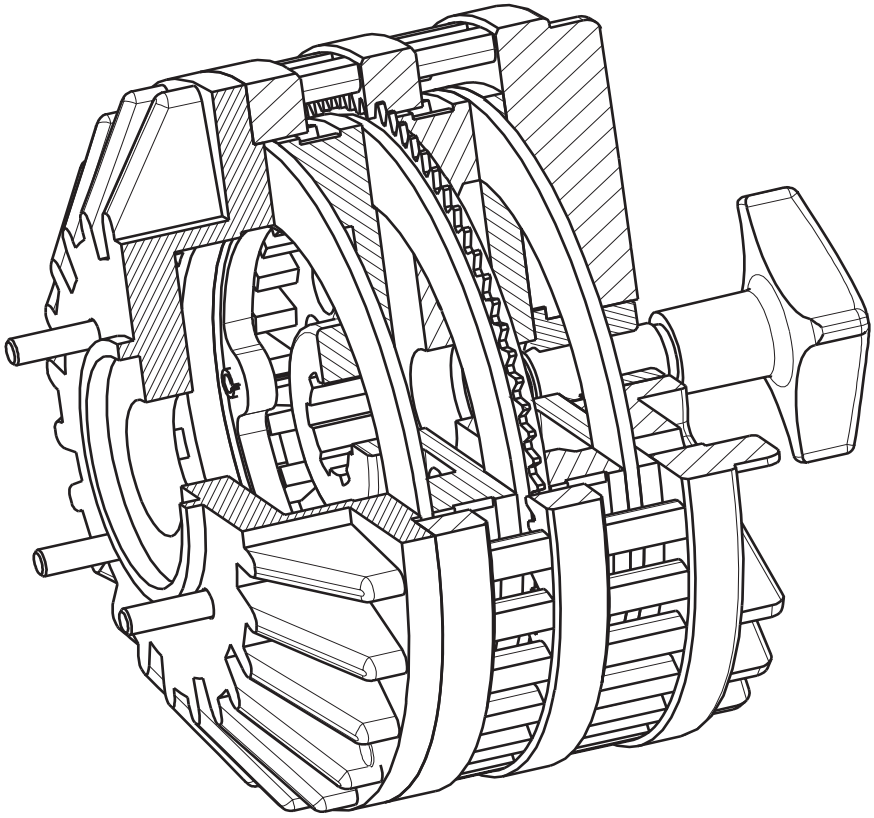

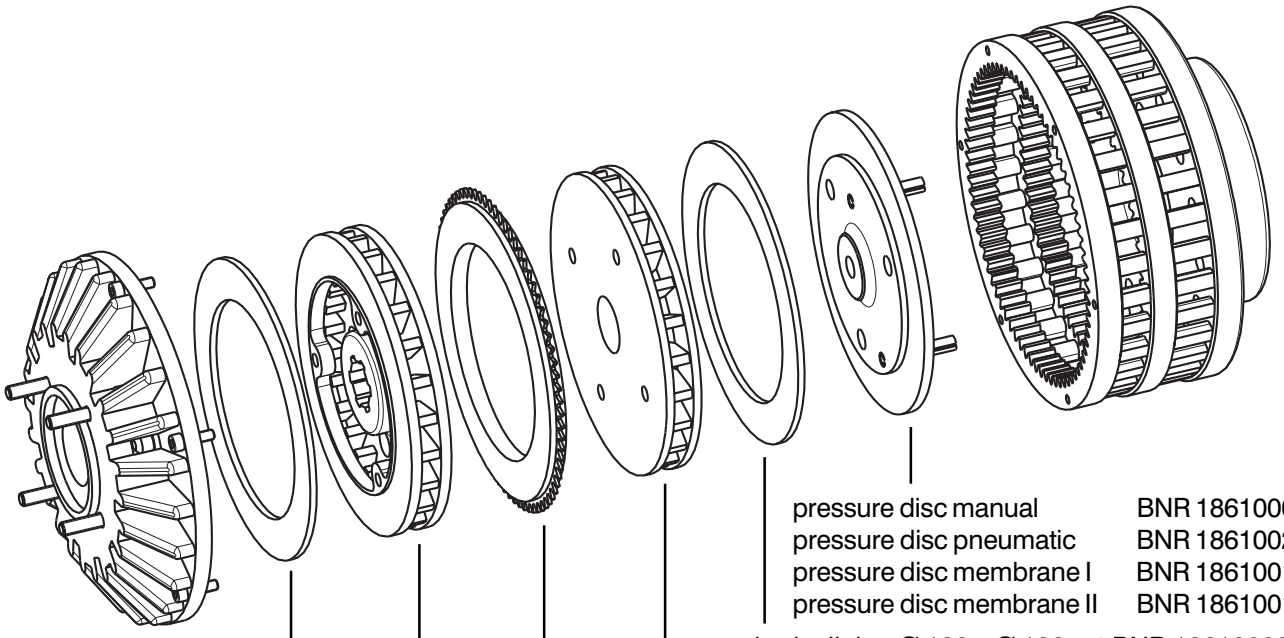

pressure disc manual BNR 18610003
pressure disc pneumatic BNR 18610023
pressure disc membrane I BNR 18610013
pressure disc membrane II BNR 18610013

brake lining Ø 180 x Ø 130 x 4 BNR 18610009

intermediate disc BNR 18610005

brake lining, cut geared BNR 18610008

driving plate 30-40 BNR 18610004

brake lining Ø 180 x Ø 130 x 4 BNR 18610009

flange disc type 30-40/40-50 BNR 18610001
type 50-80 BNR 18610011

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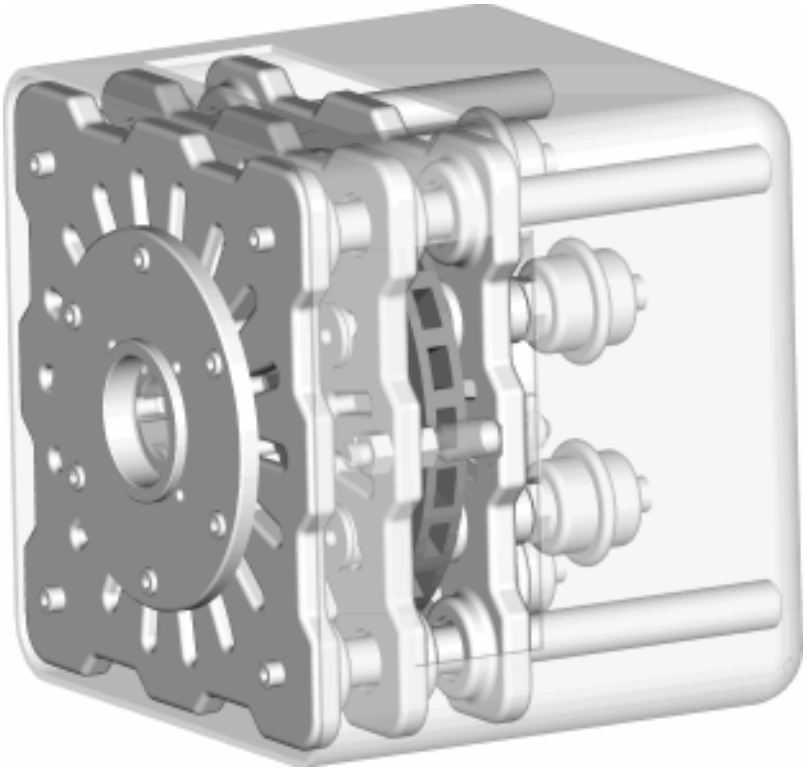
6.50 The Performance



The Performance single disc brake with
six membrane cylinder for sensitive control

	Performance 1500/300	Performance 1500/500	Performance 3000/300	Performance 3000/500
type 30-40				
performance kW (h.p.)	1.5 (1.125)	1.5 (1.125)	3 (2.25)	3 (2.25)
min. brake torque Nm (ft/lb)	15 (11)	30 (22)	15 (11)	30 (22)
max. brake torque Nm (ft/lb)	300 (220)	500 (360)	300 (220)	500 (360)
type 40-50				
performance kW (h.p.)	1.5 (1.125)	1.5 (1.125)	3 (2.25)	3 (2.25)
min. brake torque Nm (ft/lb)	15 (11)	30 (22)	15 (11)	30 (22)
max. brake torque Nm (ft/lb)	300 (220)	500 (360)	300 (220)	500 (360)
type 50-80				
performance kW (h.p.)	1.5 (1.125)	1.5 (1.125)	3 (2.25)	3 (2.25)
min. brake torque Nm (ft/lb)	15 (11)	30 (22)	15 (11)	30 (22)
max. brake torque Nm (ft/lb)	300 (220)	500 (360)	300 (220)	500 (360)

Form for calculations and equiries see chapter 9.00

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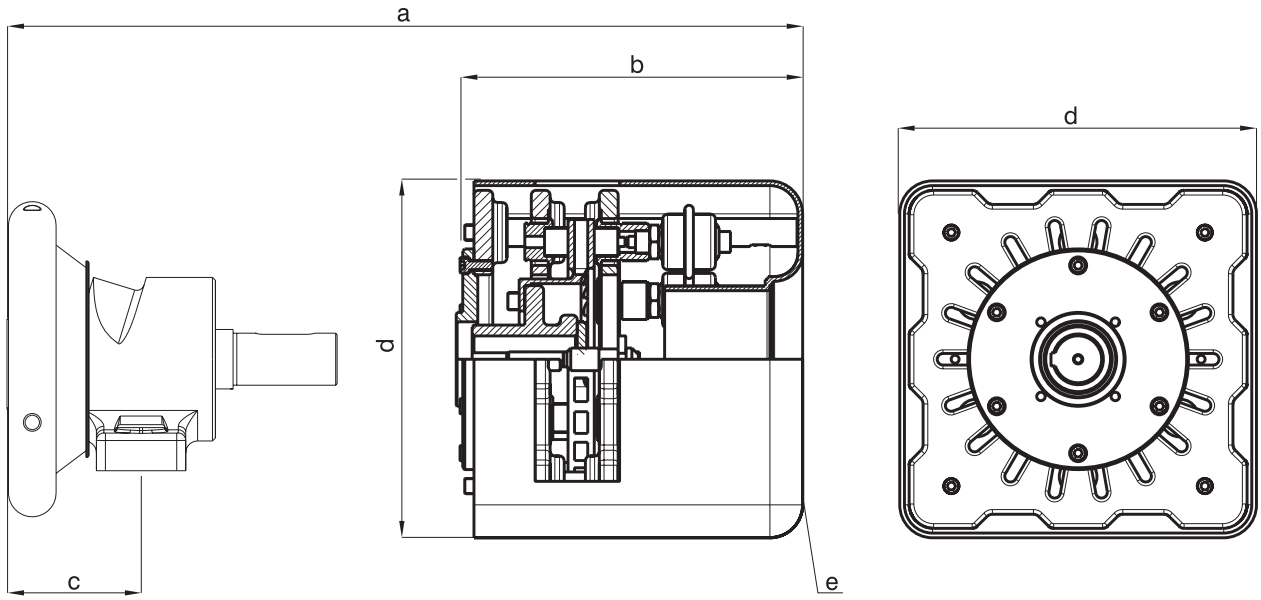
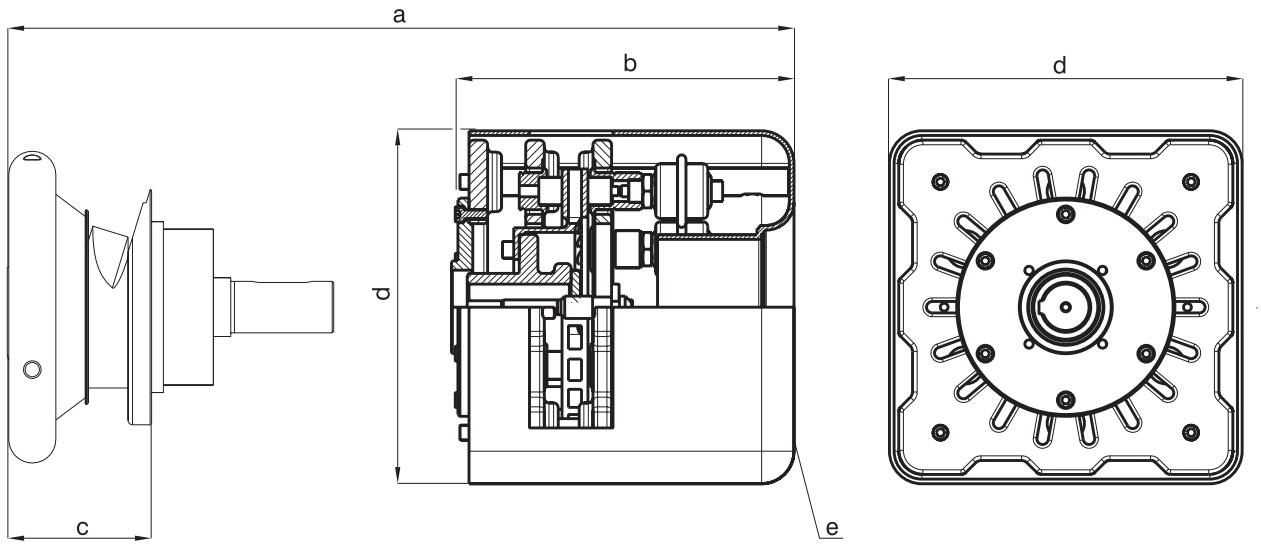
Foot mounted chuck with Performance



picture of chuck just symbolic

	a	b	c	d	e
ST 30 - 40 + Performance	502	362	90	380	G 1/4
ST 40 - 50 + Performance	552.5	362	84	380	G 1/4
ST 50 - 80 + Performance	622	362	124	380	G 1/4

Flange mounted chuck with Performance



picture of chuck just symbolic

	a	b	c	d	e
FL 30 - 40 + Performance	502	362	98	380	G 1/4
FL 40 - 50 + Performance	552.5	362	130	380	G 1/4
FL 50 - 80 + Performance	622	362	200	380	G 1/4

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Adapter to standard shaft end.

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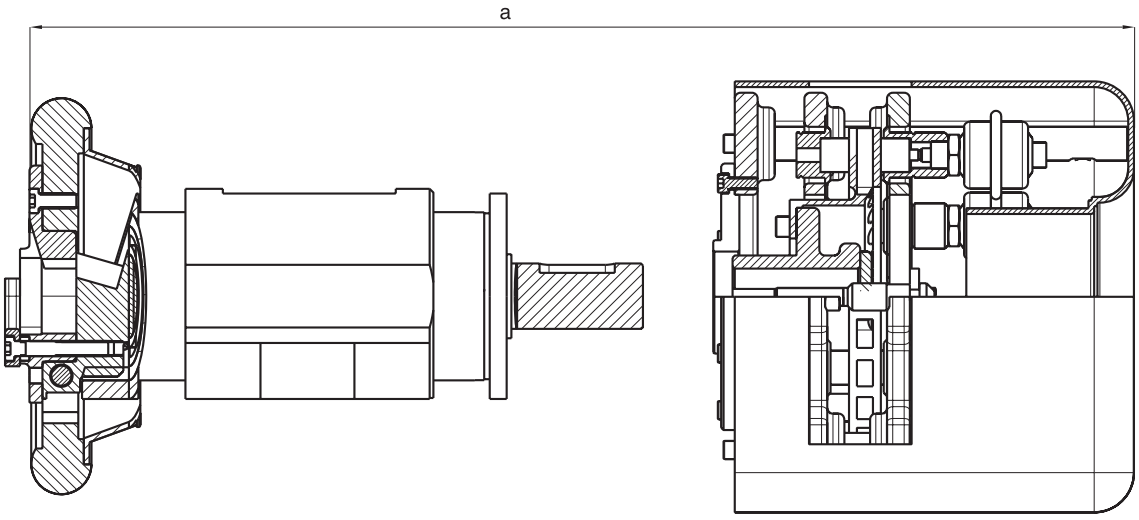
Changes reserved

Overall dim. the Performance with Sliding-, A- and P-Chucks



picture of chuck and brake just symbolic

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

	Performance	dimension page chuck
dimension page Performance	**6.51**	
Sliding-Chuck		3.03 - 3.06
30-40		
50 mm adjustment	618.5	
100 mm adjustment	718.5	
40-50		
50 mm adjustment	624.5	
100 mm adjustment	724.5	
A Chuck		
A40		4.21 - 4.22
A50		4.31 - 4.32
A80		4.41 - 4.42
P Chuck		
P40	582	4.61 - 4.62
P50	618	4.71 - 4.72

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

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The Performance performance diagrams

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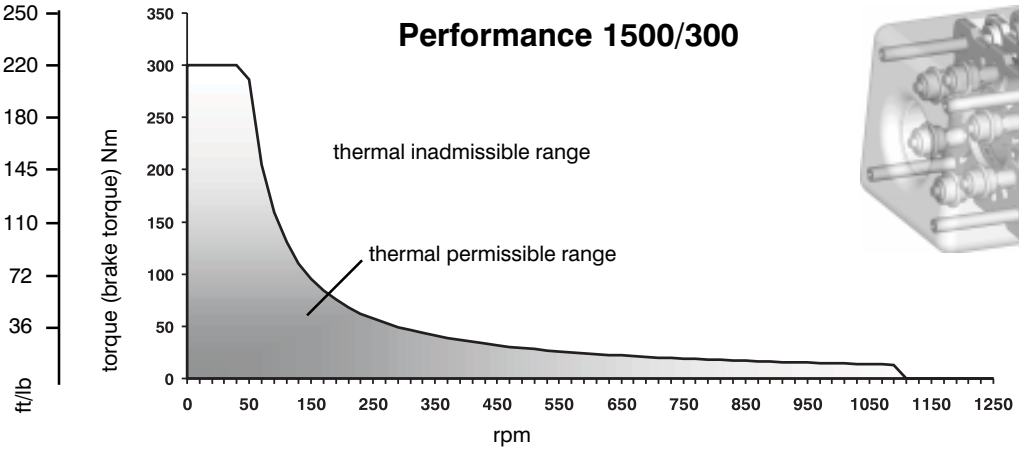
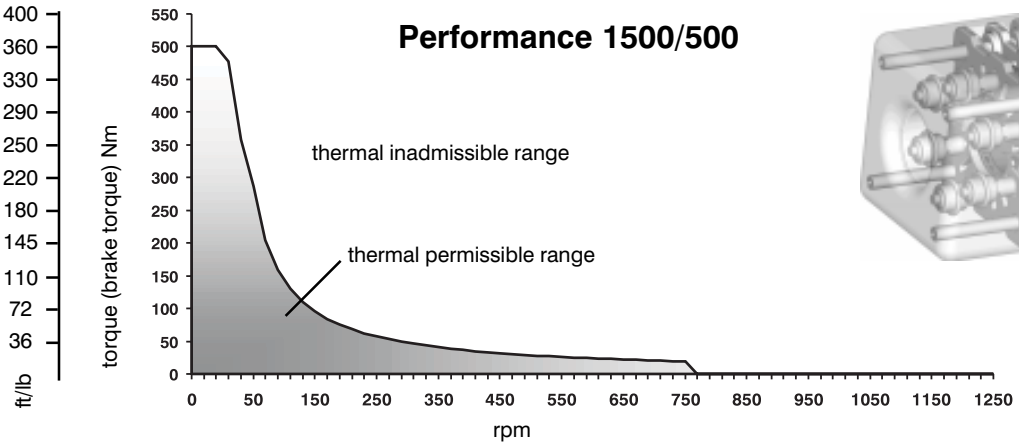
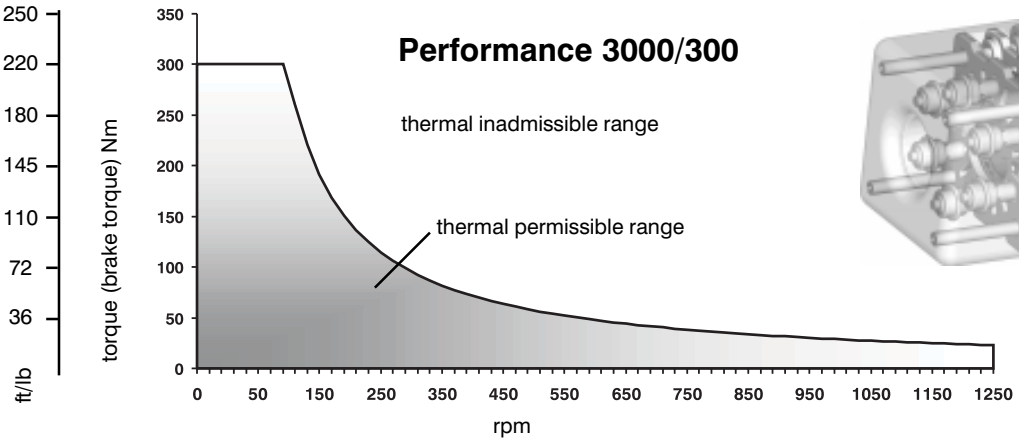
Performance 1500/300



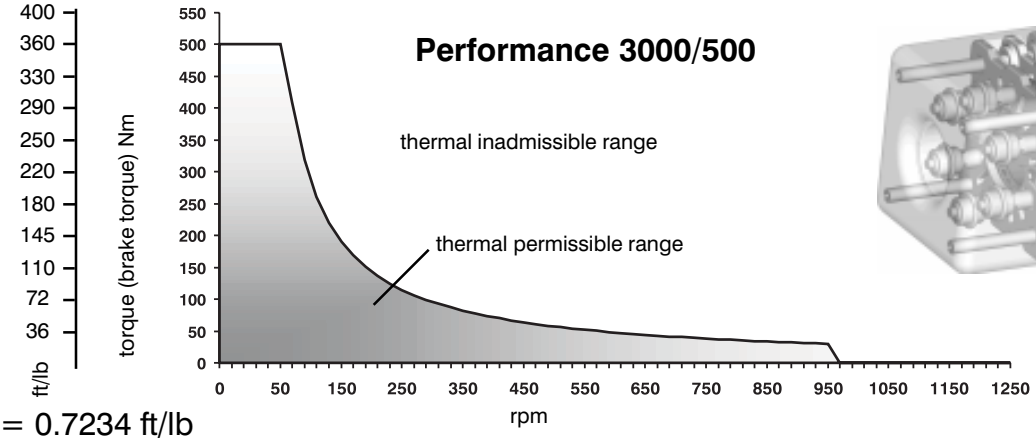
Performance 1500/500



Performance 3000/300



Performance 3000/500



1 Nm = 0.7234 ft/lb

6.53

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The Performance wearing-parts

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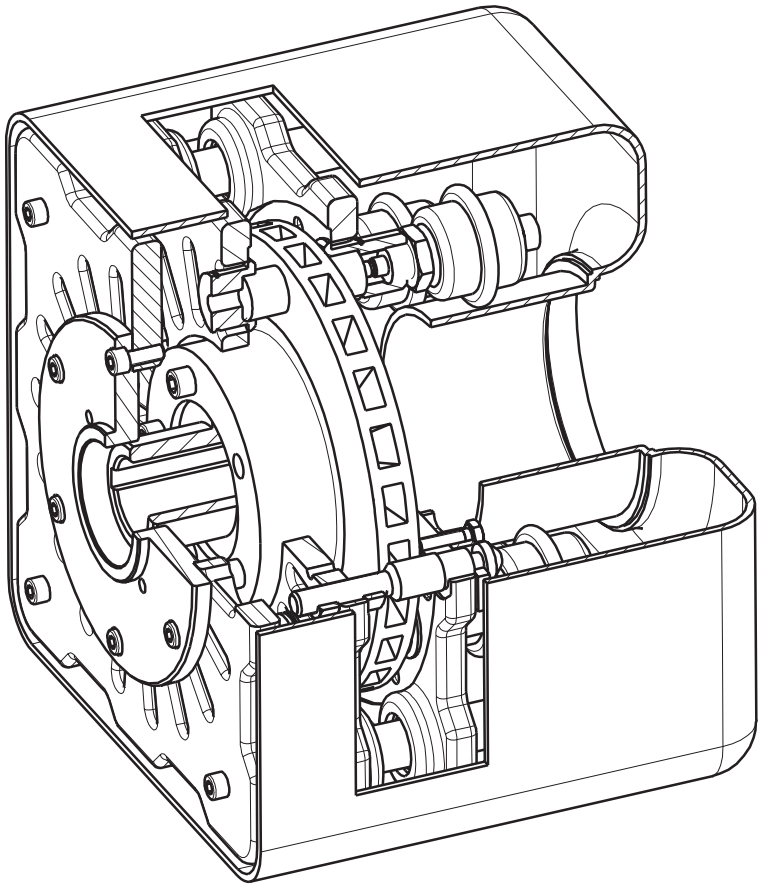

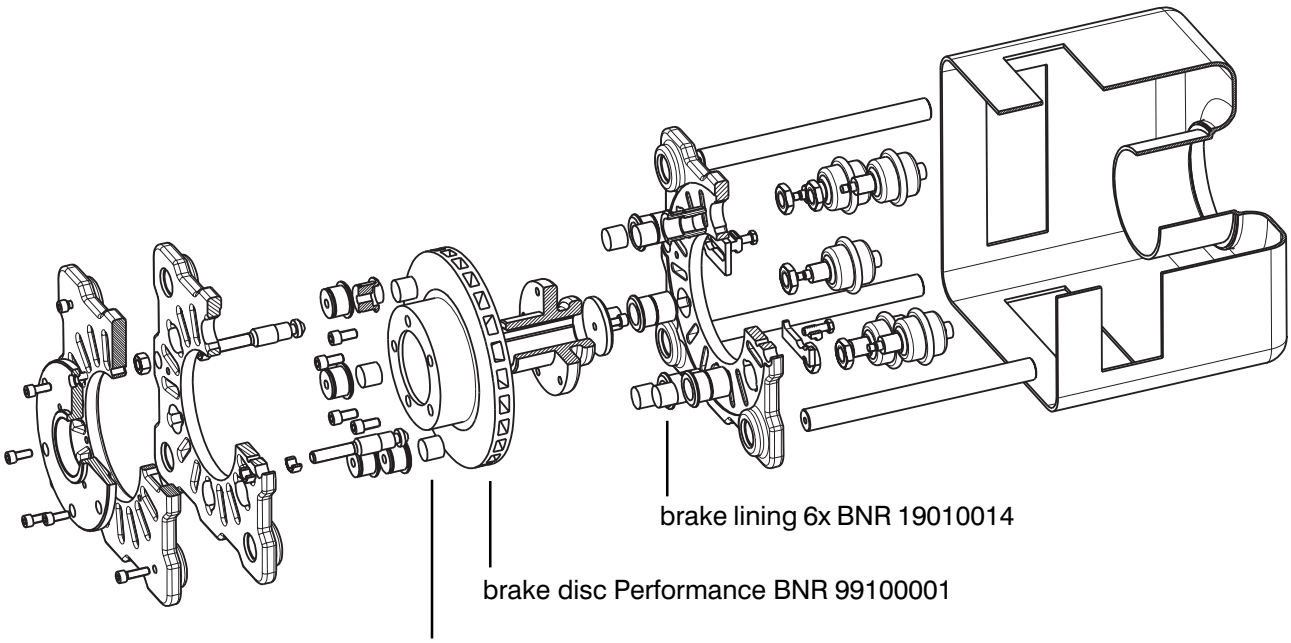

1 set brake linings = 12 pieces

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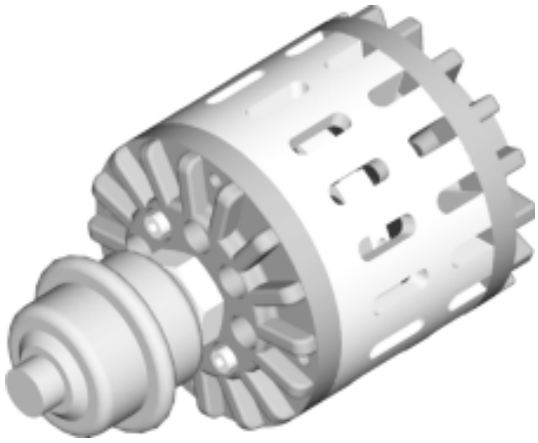
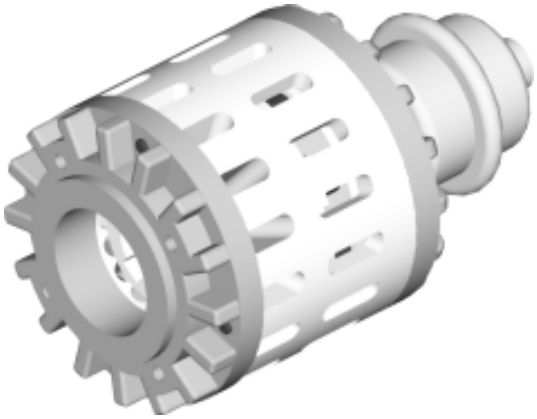
6.60 The Performance 200



The Performance single disc brake with
membrane cylinder for sensitive control



with adapter flange
for chuck type 19-25 / 22-30 / 30-40

without adapter flange
for chuck type 40-50

	Performance 200
type 19-25 / 22-30 / 30-40 / 40-50	
performance kW (h.p.)	0,2 (0.15)
min. brake torque Nm (ft/lb)	4 (2.89)
max. brake torque Nm (ft/lb)	50 (36)

Form for calculations and equiries see chapter 9.00

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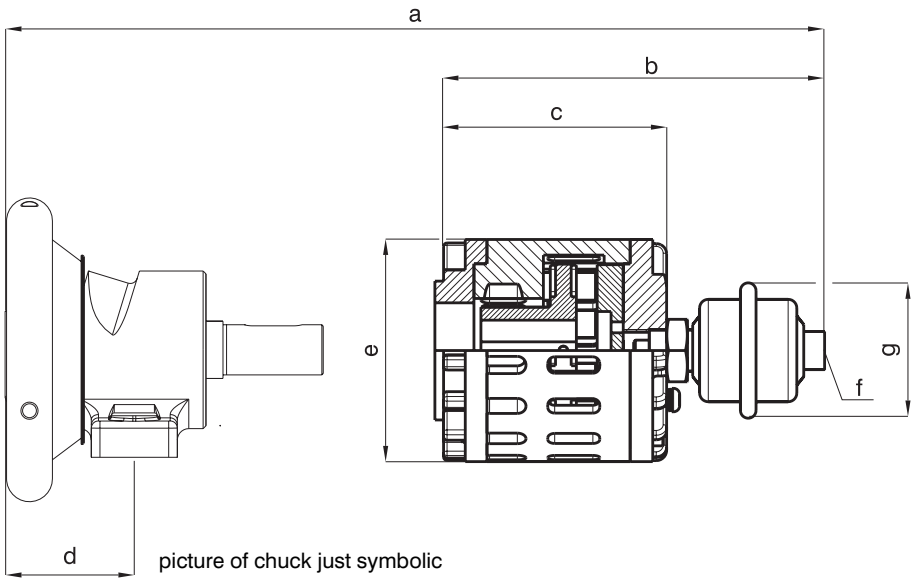
(a) Changes reserved

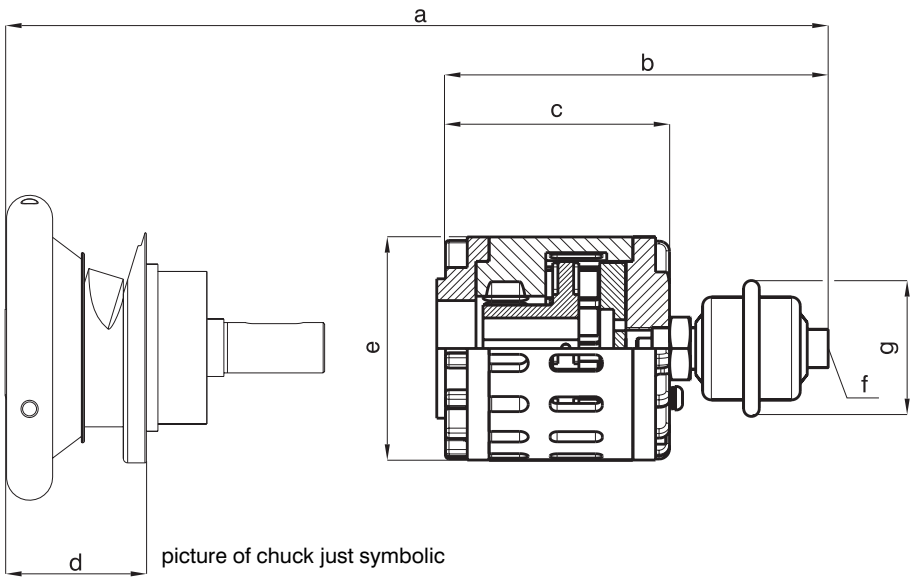
BOSCHERT

Foot mounted chuck with Performance 200



	a	b	c	d	e	f	g
ST 19 - 25 + Performance 200 membran I	310	208	116,5	70	Ø 128	G 1/4	Ø 78
ST 22 - 30 + Performance 200 membran I	343	220	131,5	78	Ø 128	G 1/4	Ø 78
ST 30 - 40 + Performance 200 membran I	355	215	128,5	90	Ø 128	G 1/4	Ø 78

Flange mounted chuck with Performance 200



	a	b	c	d	e	f	g
FL 19 - 25 + Performance 200 membran I	310	208	116,5	82	Ø 128	G 1/4	Ø 78
FL 22 - 30 + Performance 200 membran I	343	220	131,5	91	Ø 128	G 1/4	Ø 78
FL 30 - 40 + Performance 200 membran I	355	215	128,5	98	Ø 128	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Adapter to standard shaft end.

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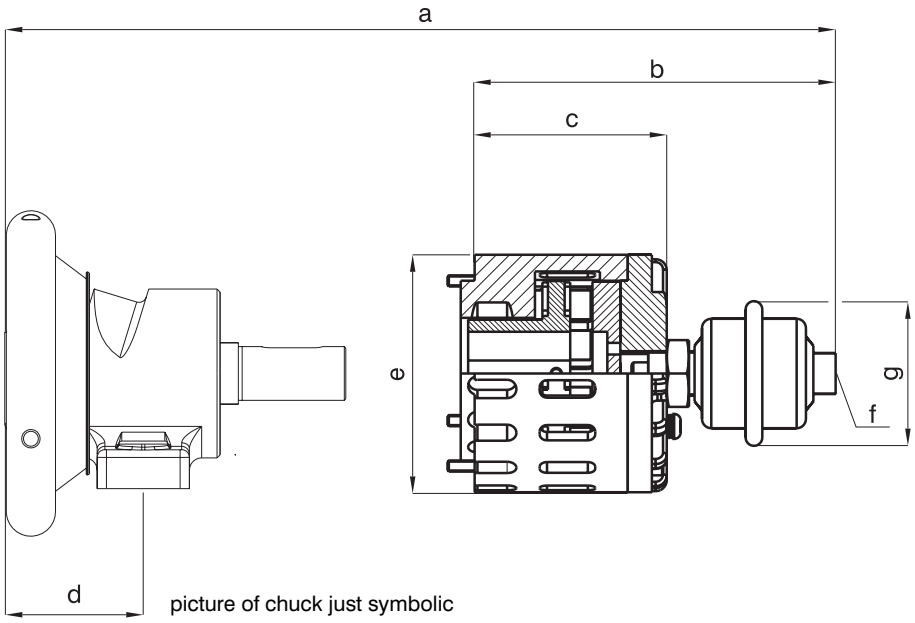
BOSCHERT

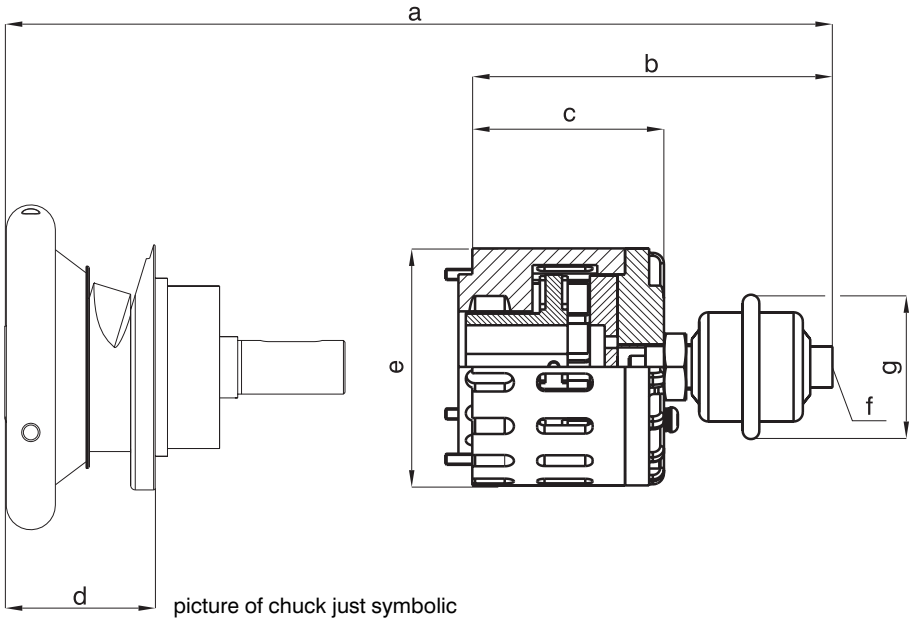
Foot mounted chuck with Performance 200



picture of chuck just symbolic

	a	b	c	d	e	f	g
ST 40-50 + Performance 200 membrane I	382	191	104,5	84	Ø 128	G 1/4	Ø 78

Flange mounted chuck with Performance 200



picture of chuck just symbolic

	a	b	c	d	e	f	g
FL 40-50 + Performance 200 membrane I	382	191	104,5	130	Ø 128	G 1/4	Ø 78

Dimension schedule for Boschert-Chuck see chapter 2.30 - 2.50
Adapter to standard shaft end.

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Overall dim. the Performance 200 with Sliding-, A- and P-Chucks

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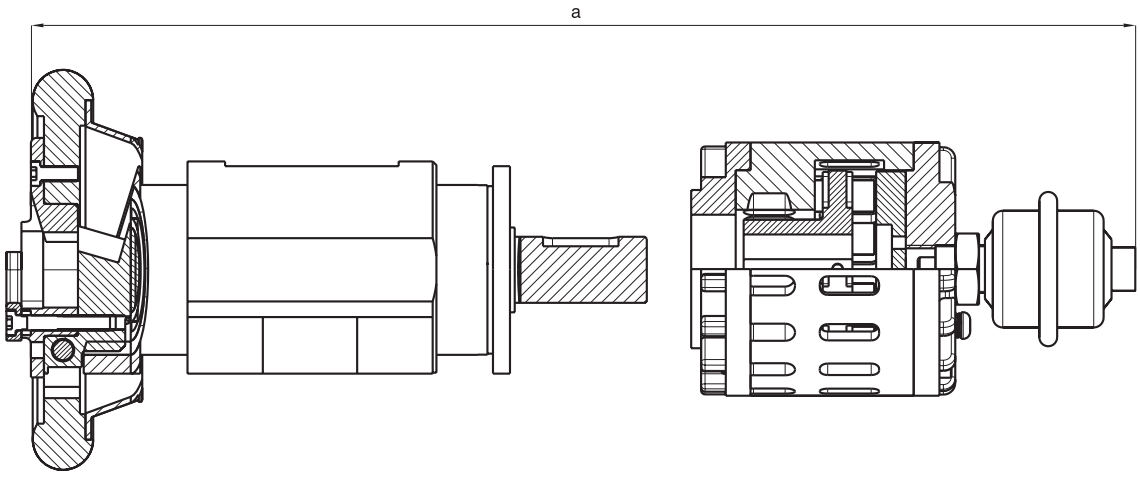

picture of chuck and brake just symbolic

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

	Performance 200	dimension page chuck
dimension page Performance 200	**6.61 - 6.62**	
Sliding-Chuck		3.03 - 3.06
22-30		
50 mm adjustment	471	
30-40		
50 mm adjustment	470	
100 mm adjustment	570	
40-50		
50 mm adjustment	451	
100 mm adjustment	551	
A Chuck		
A40	357	4.21 - 4.22
A50	382	4.31 - 4.32
P Chuck		
P40	423	4.61 - 4.62
P50	437	4.71 - 4.72

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

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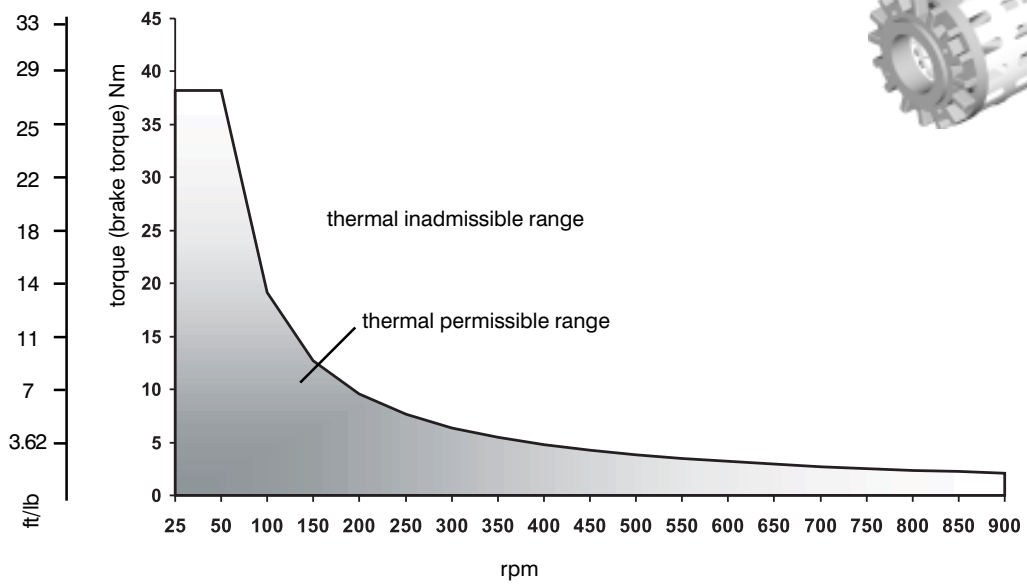
The Performance 200 performance diagrams



1 Nm = 0.7234 ft/lb

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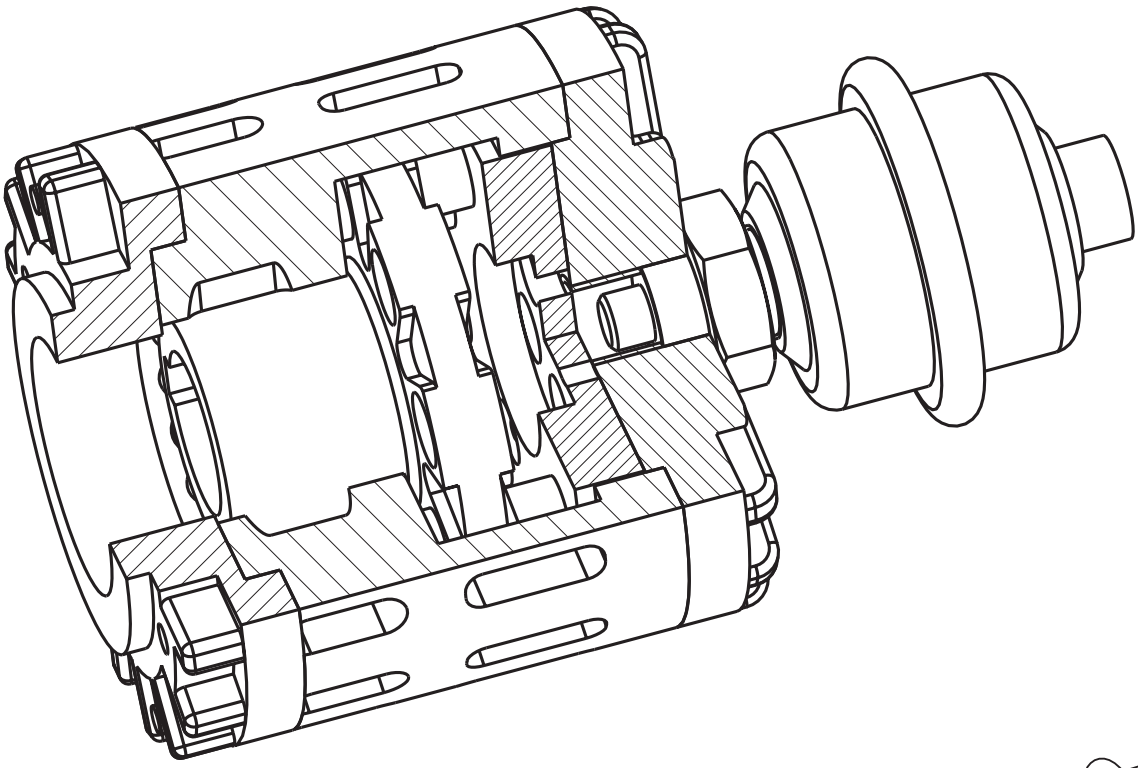
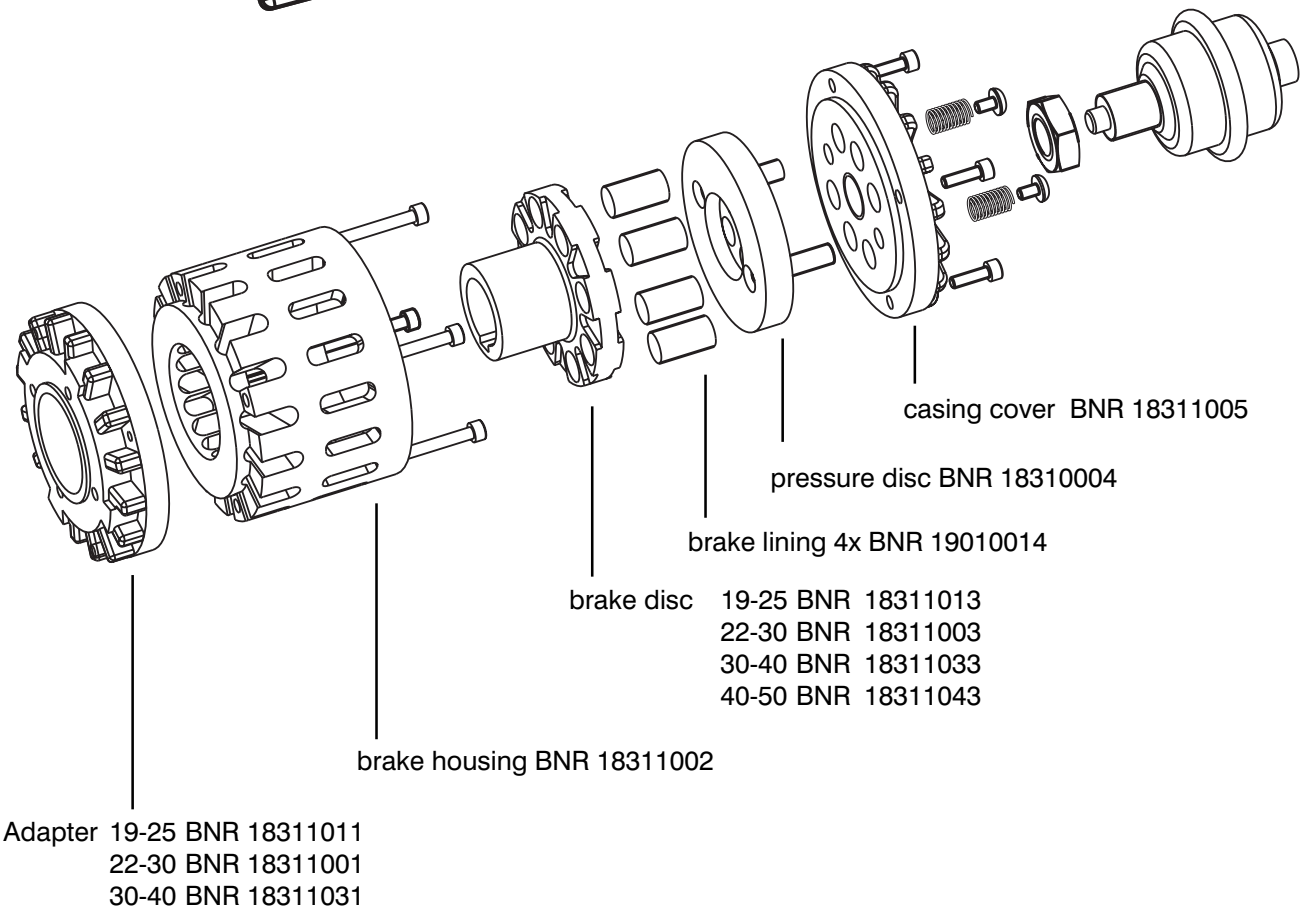
The Performance 200 wearing-parts





1 set brake linings = 12 pieces

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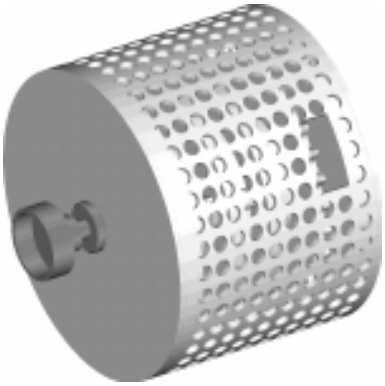
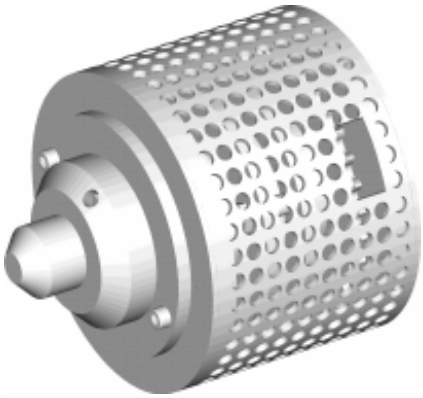
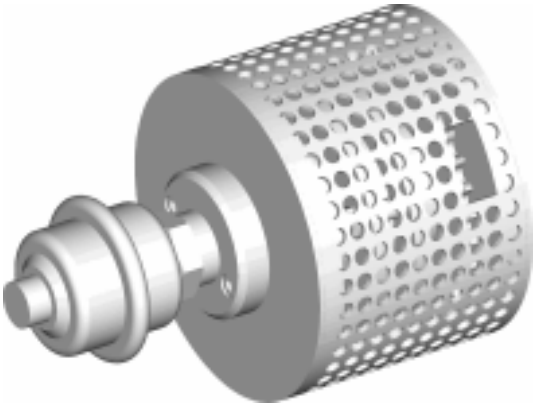
Clutch type mini



Clutch manual



Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	**pneumatic**	**membrane I**
type mini			
friction performance kW (h.p.)	0.1 (0.075)	0.1 (0.075)	0.1 (0.075)
min. friction torque Nm (ft/lb)	1 (0.7234)	3 (2.17)	2 (1.45)
max. friction torque Nm (ft/lb)	30 (22)	30 (22)	30 (22)

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Changes reserved

Clutch
mini manual

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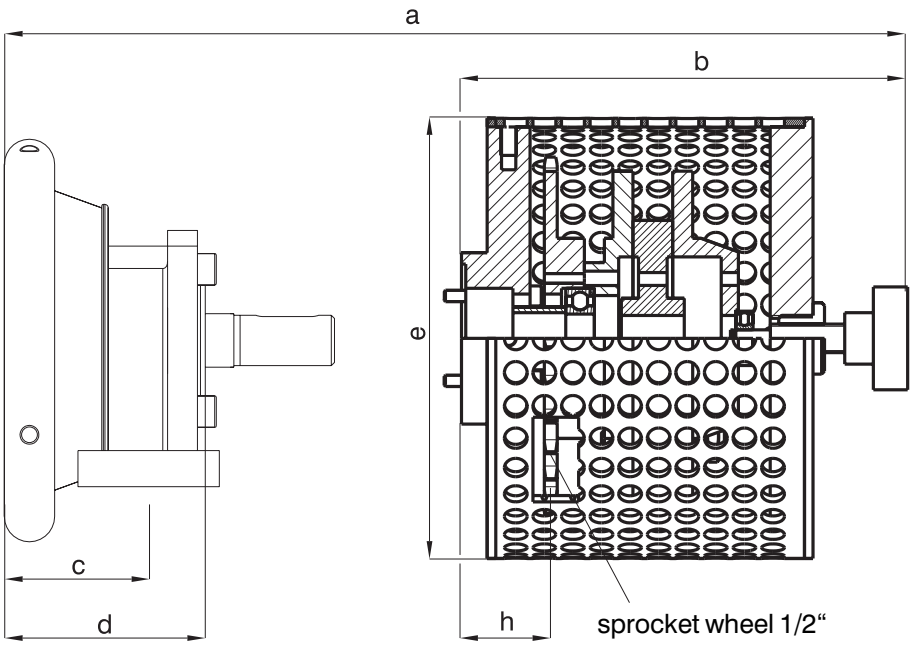
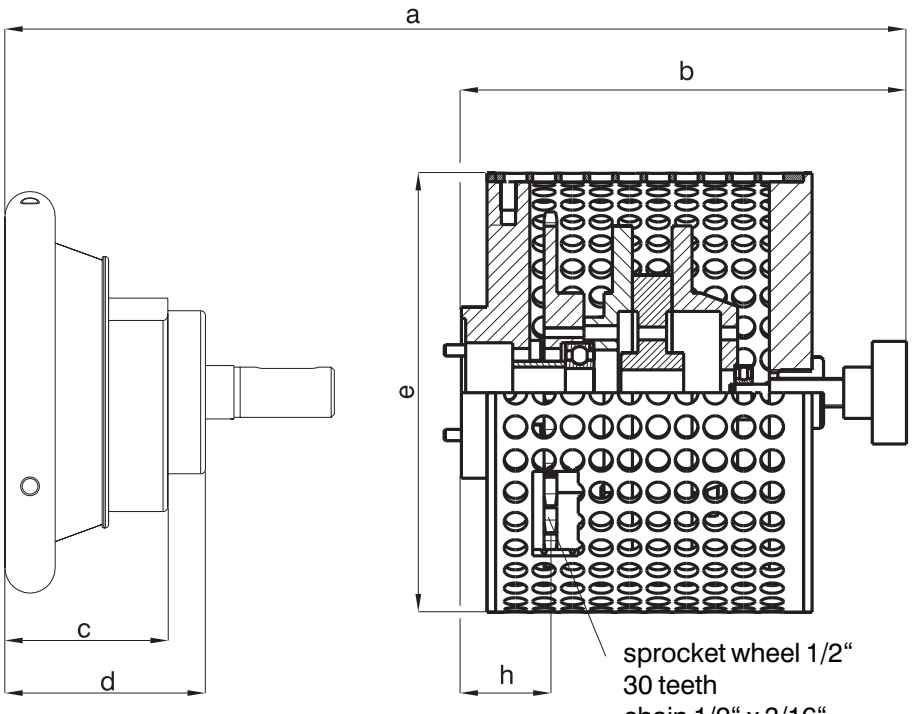
Foot mounted chuck with clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
ST mini + Clutch manual	218.5	156	46.5	64	Ø 162	32.5

Flange mounted chuck with Clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
FL mini + clutch manual	218.5	156	52	64	Ø 162	32.5

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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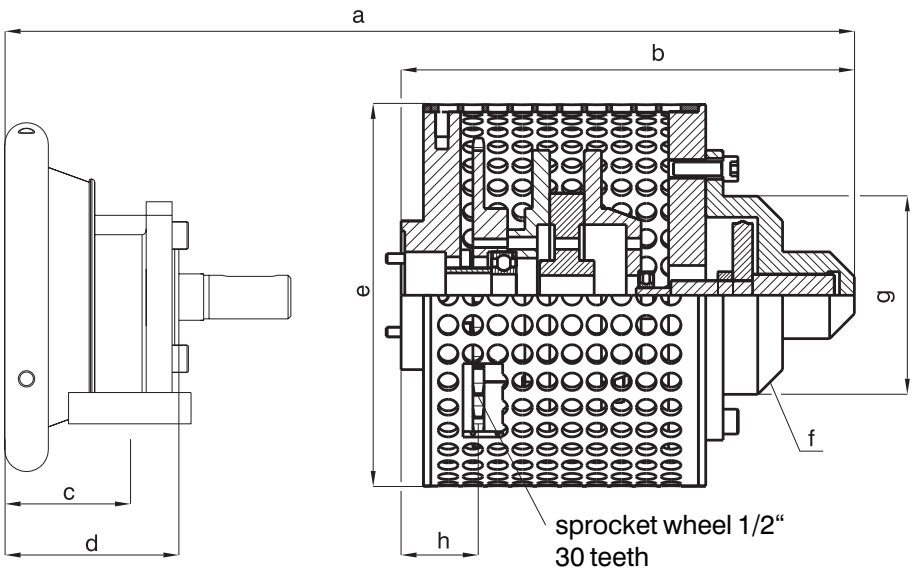
Clutch
mini pneumatic

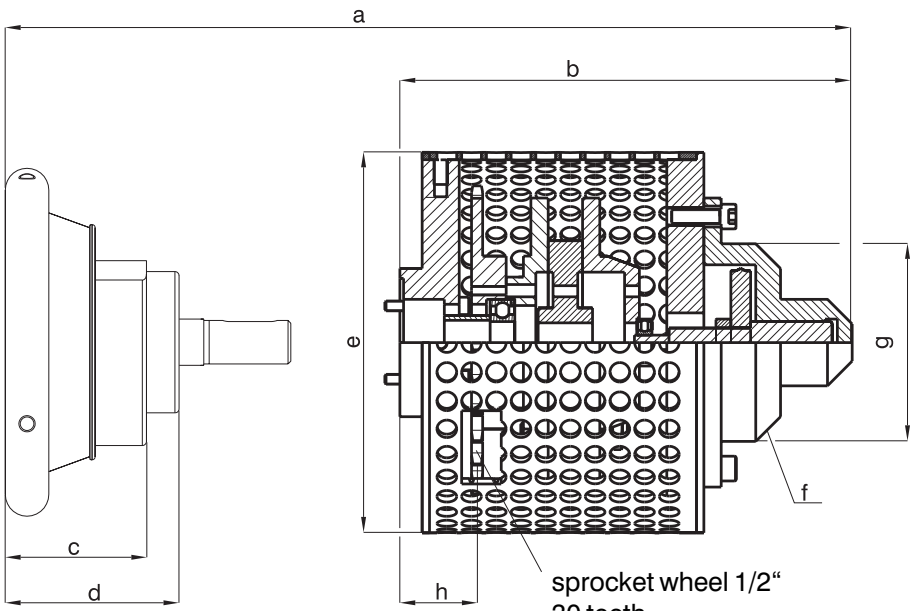
Foot mounted chuck with clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST mini + clutch pneumatic	248.5	186	46.5	64	Ø 162	G 1/8	Ø 80	32.5

Flange mounted chuck with clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL mini + clutch pneumatic	248.5	186	52	64	Ø 162	G 1/8	Ø 80	32.5

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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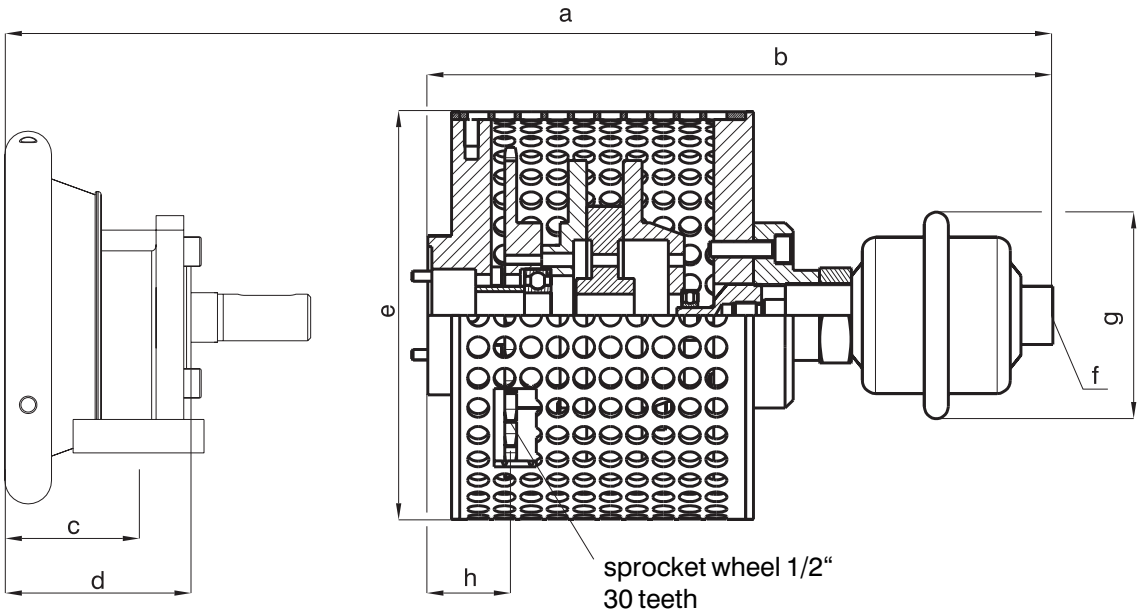
Clutch mini
and membrane cylinder I

BOSCHERT

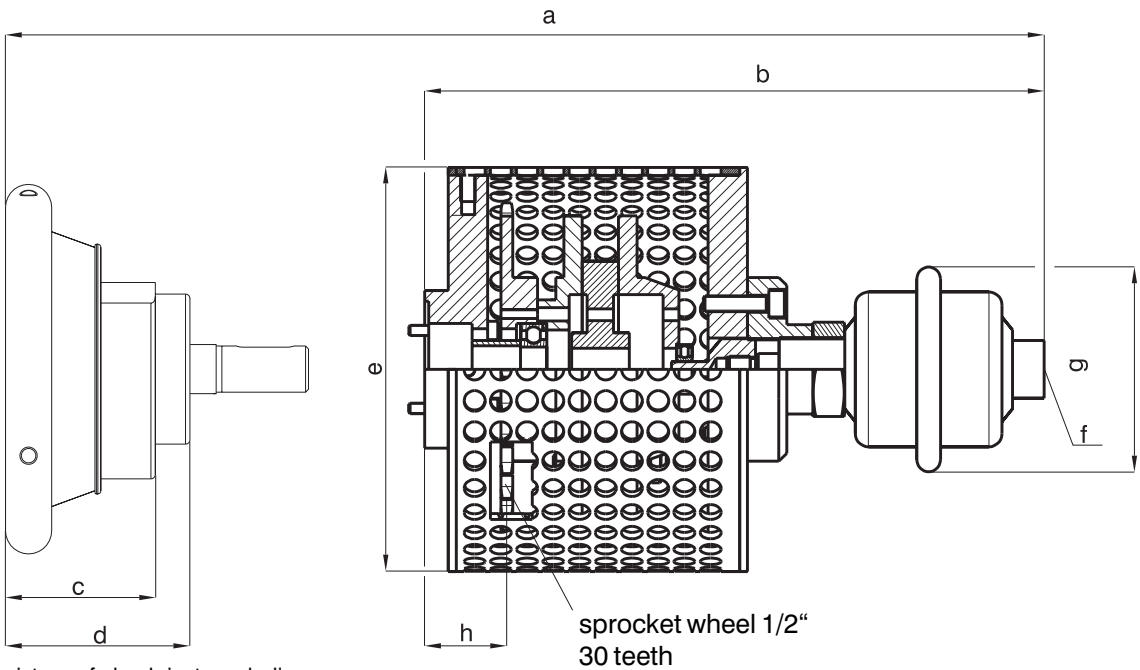
Foot mounted chuck with clutch and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST mini + clutch membrane cylinder I	305	242.5	46.5	64	Ø 162	G 1/4	Ø 78	32.5

Flange mounted chuck with clutch and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL mini + clutch membrane cylinder I	305	242.5	52	64	Ø 162	G 1/4	Ø 78	32.5

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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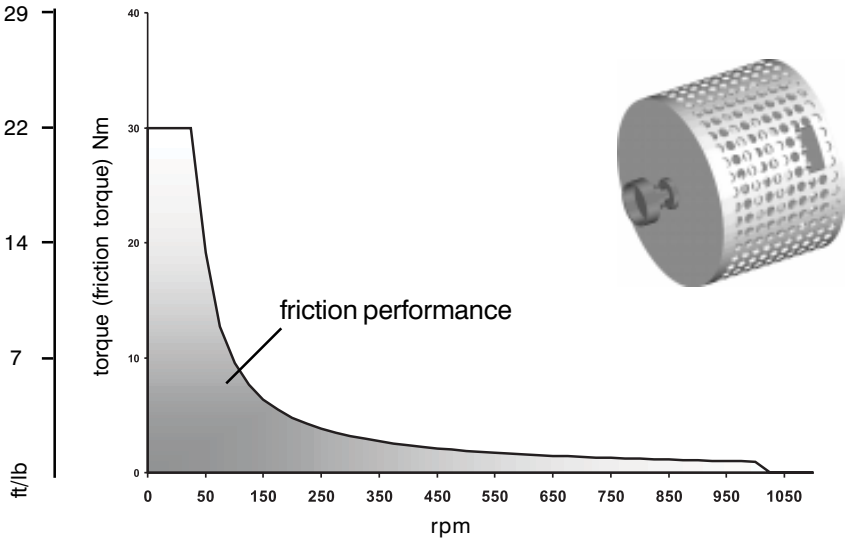
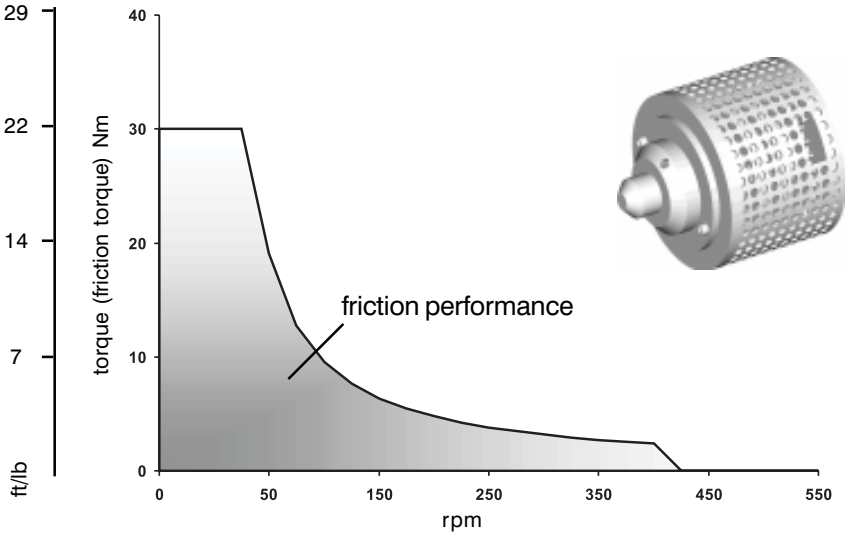
Clutch performance diagrams type mini

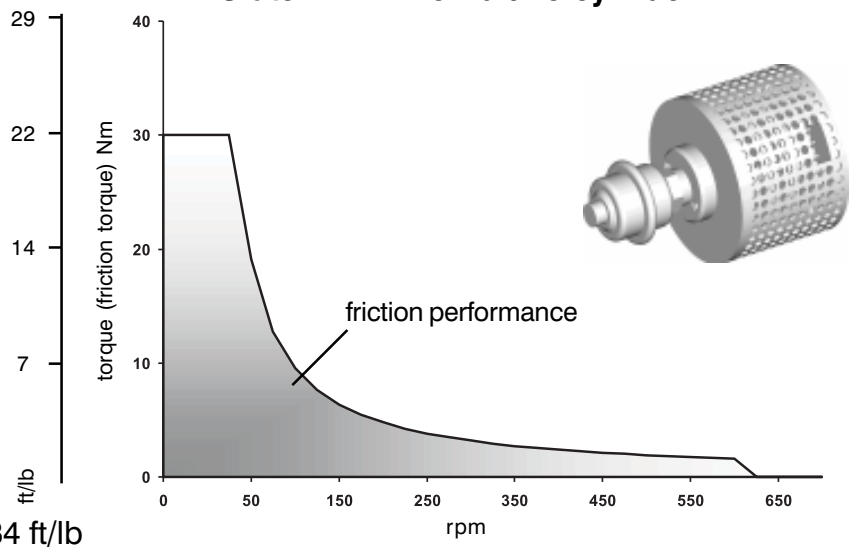
Clutch mini manual



Clutch mini pneumatic



Clutch mini membrane cylinder I



1 Nm = 0 .7234 ft/lb

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Clutch mini
wearing-parts

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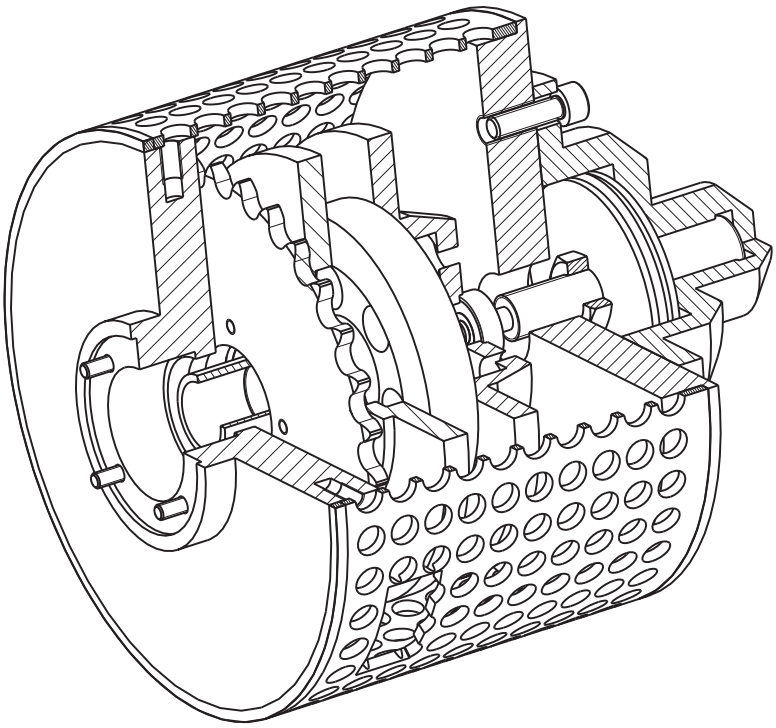

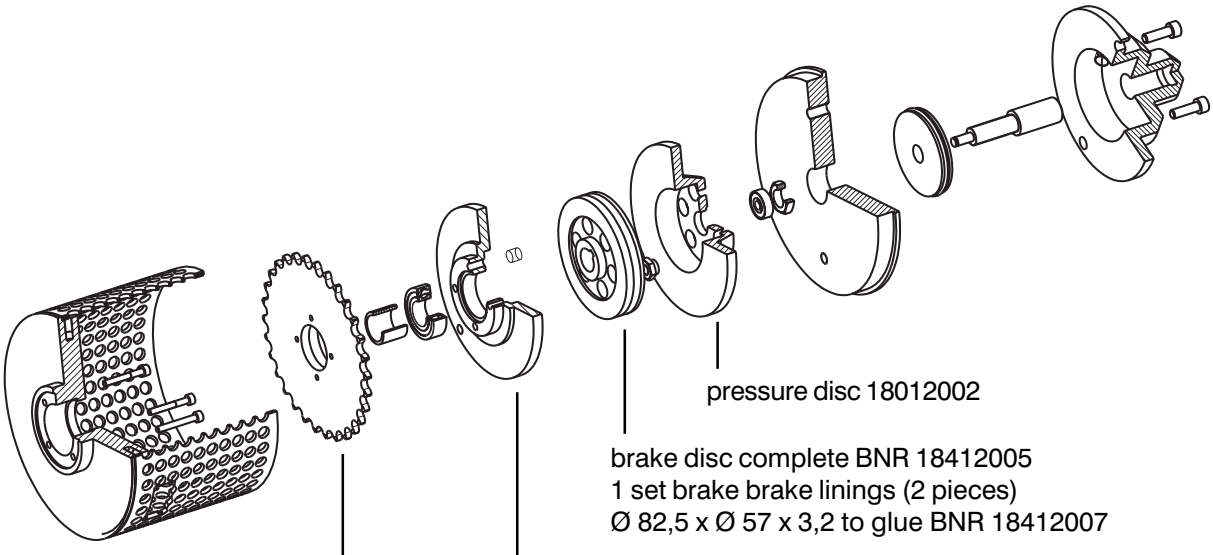

7.05

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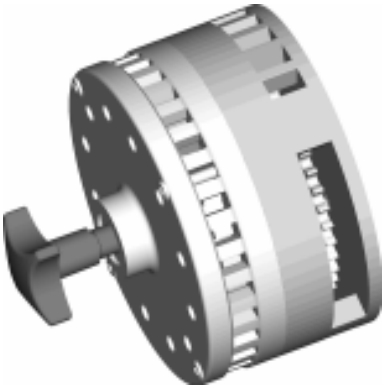
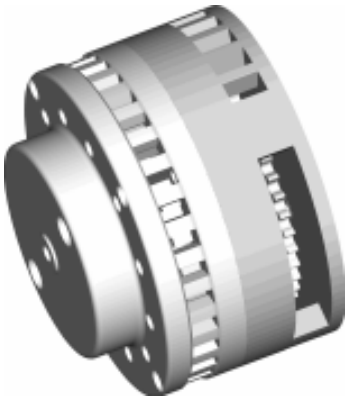
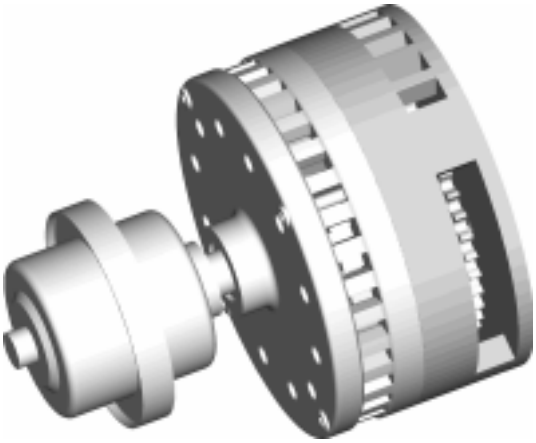
7.20 Clutch type 22-30 to 40-50



Clutch manual



Clutch pneumatic



Clutch with membrane cylinder I

	Clutch		
	manual	**pneumatic**	**membrane I**
type 22-30 to 40-50			
friction performance kW (h.p.)	0.2 (0.15)	0.2 (0.15)	0.2 (0.15)
min. friction torque Nm (ft/lb)	2 (1.45)	5 (3.62)	4 (2.89)
max. friction torque Nm (ft/lb)	50 (36)	50 (36)	50 (36)

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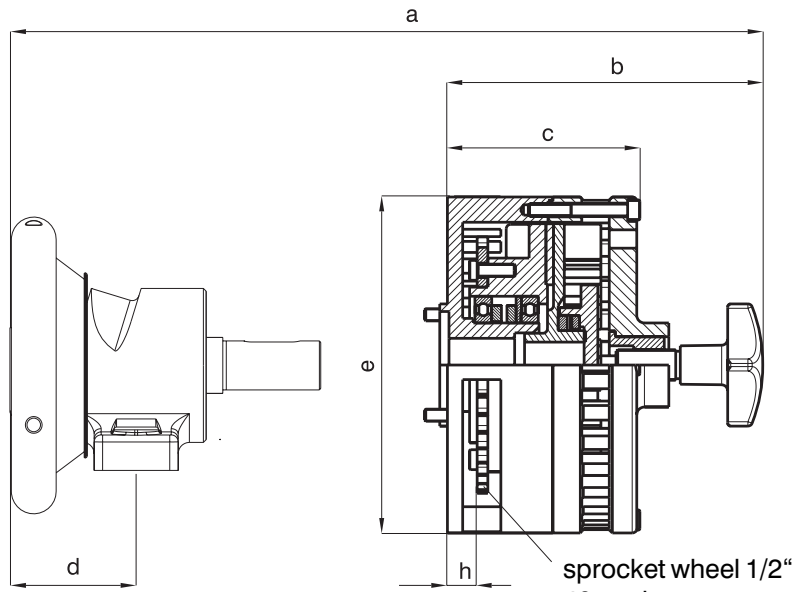
BOSCHERT

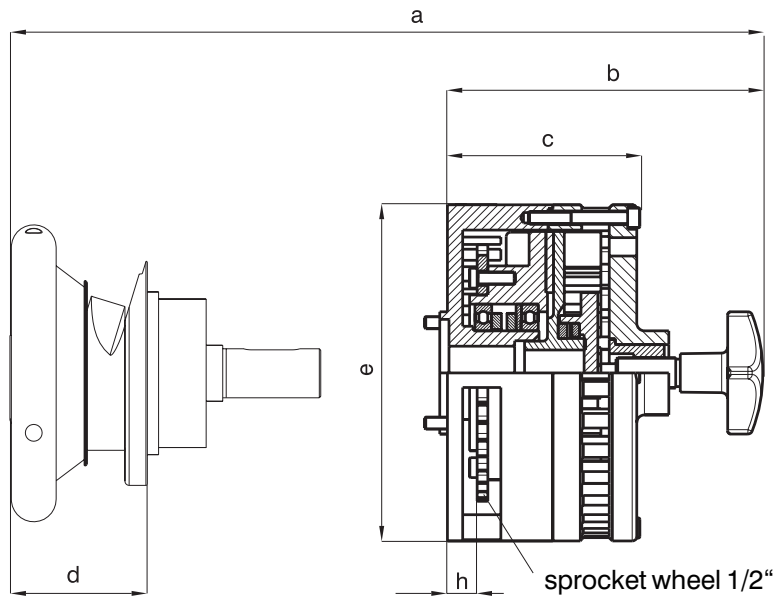
Foot mounted chuck with clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
ST 22 - 30 + clutch manual	337	214	124	78	Ø 220	19
ST 30 - 40 + clutch manual	354	214	124	90	Ø 220	19
ST 40 - 50 + clutch manual	404.5	214	124	84	Ø 220	19

Flange mounted chuck with clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
FL 22 - 30 + clutch manual	337	214	124	91	Ø 220	19
FL 30 - 40 + clutch manual	354	214	124	98	Ø 220	19
FL 40 - 50 + clutch manual	404.5	214	124	130	Ø 220	19

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43
Schedule for dimension diagram see page 5.52

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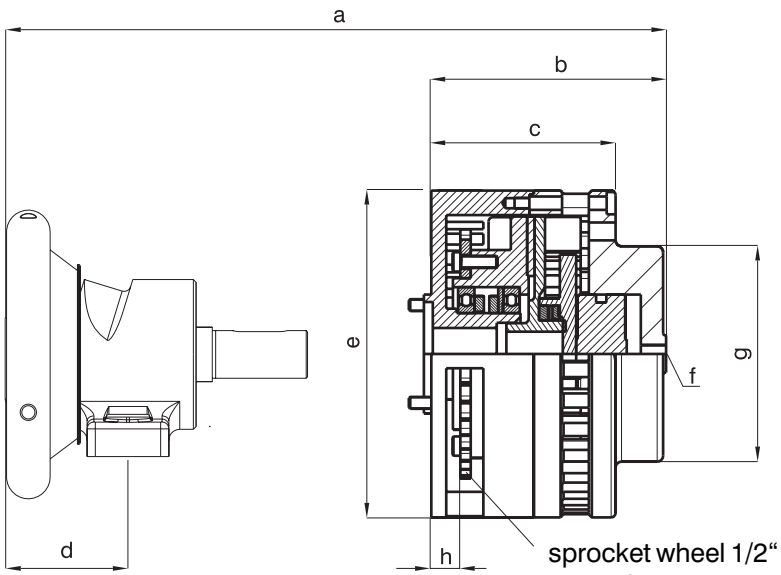
BOSCHERT

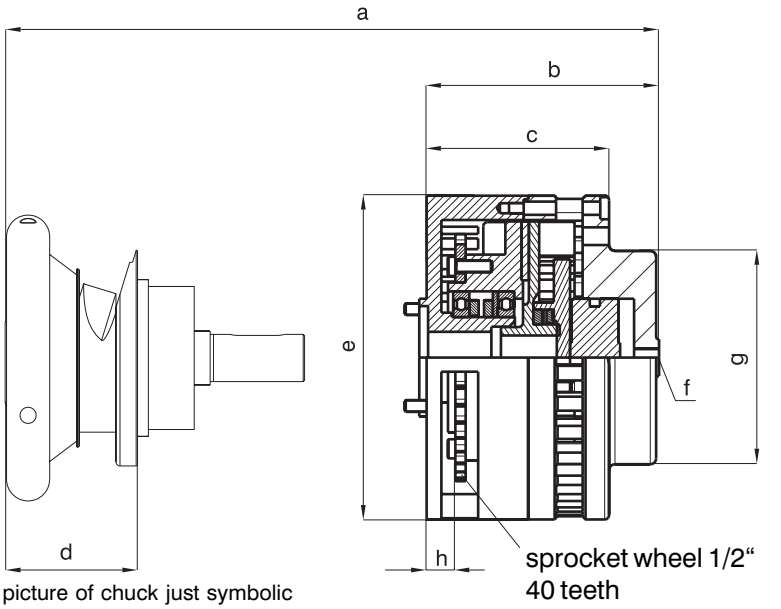
Foot mounted chuck with clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST 22 - 30 + clutch pneumatic	281	158	124	78	Ø 220	G 1/4	Ø 145	19
ST 30 - 40 + clutch pneumatic	298	158	124	90	Ø 220	G 1/4	Ø 145	19
ST 40 - 50 + clutch pneumatic	348.5	158	124	84	Ø 220	G 1/4	Ø 145	19

Flange mounted chuck with clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL 22 - 30 + clutch pneumatic	281	158	124	91	Ø 220	G 1/4	Ø 145	19
FL 30 - 40 + clutch pneumatic	298	158	124	98	Ø 220	G 1/4	Ø 145	19
FL 40 - 50 + clutch pneumatic	348.5	158	124	130	Ø 220	G 1/4	Ø 145	19

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43
Schedule for dimension diagram see page 5.52

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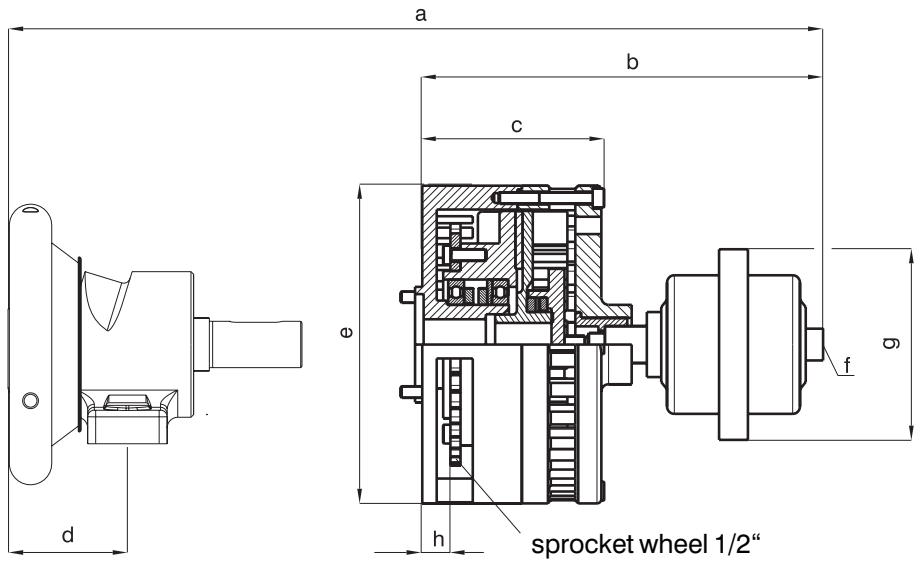
(a) Changes reserved

Clutch
with membrane cylinder I

BOSCHERT

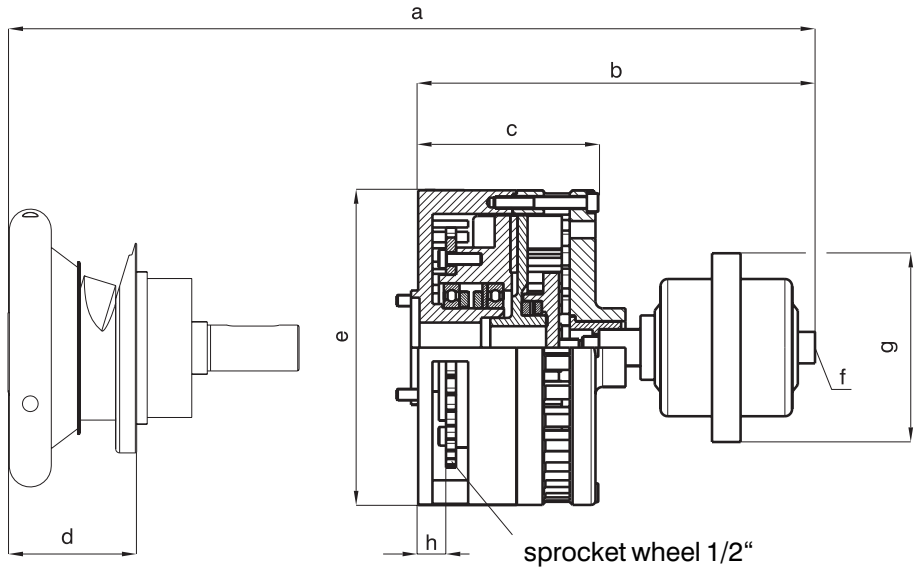
Foot mounted chuck with Clutch and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST 22 - 30 + clutch membrane cylinder I	390	267	124	78	Ø 220	G 1/4	Ø 132	19
ST 30 - 40 + clutch membrane cylinder I	407	267	124	90	Ø 220	G 1/4	Ø 132	19
ST 40 - 50 + clutch membrane cylinder I	456	267	124	84	Ø 220	G 1/4	Ø 132	19

Flange mounted chuck with Clutch and membrane cylinder I



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL 22 - 30 + clutch membrane cylinder I	390	267	124	91	Ø 220	G 1/4	Ø 132	19
FL 30 - 40 + clutch membrane cylinder I	407	267	124	98	Ø 220	G 1/4	Ø 132	19
FL 40 - 50 + clutch membrane cylinder I	456	267	124	130	Ø 220	G 1/4	Ø 132	19

Dimension schedule for Boschert-Chuck see chapter 2.20 - 2.43
Schedule for dimension diagram see page 5.52

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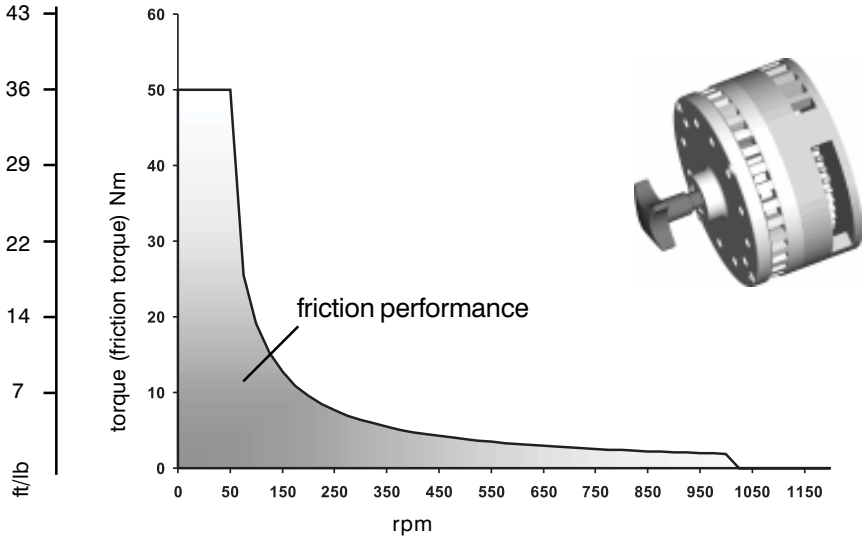
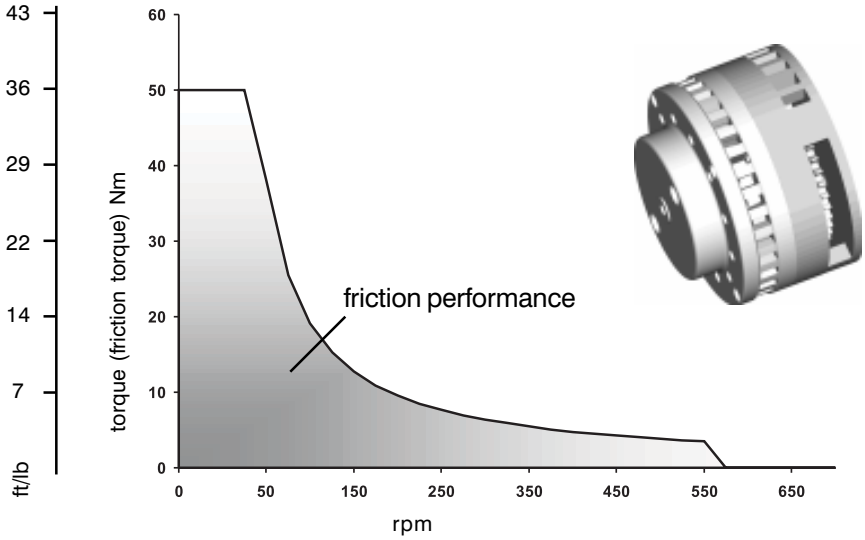
Changes reserved (b)

performance diagrams
RU

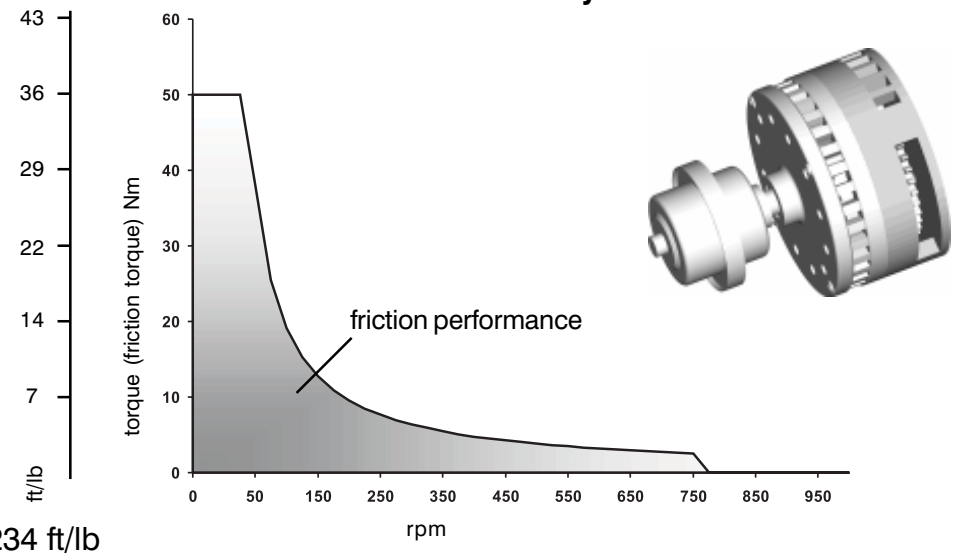
Clutch manual



Clutch pneumatic



Clutch membrane cylinder I



1 Nm = 0.7234 ft/lb

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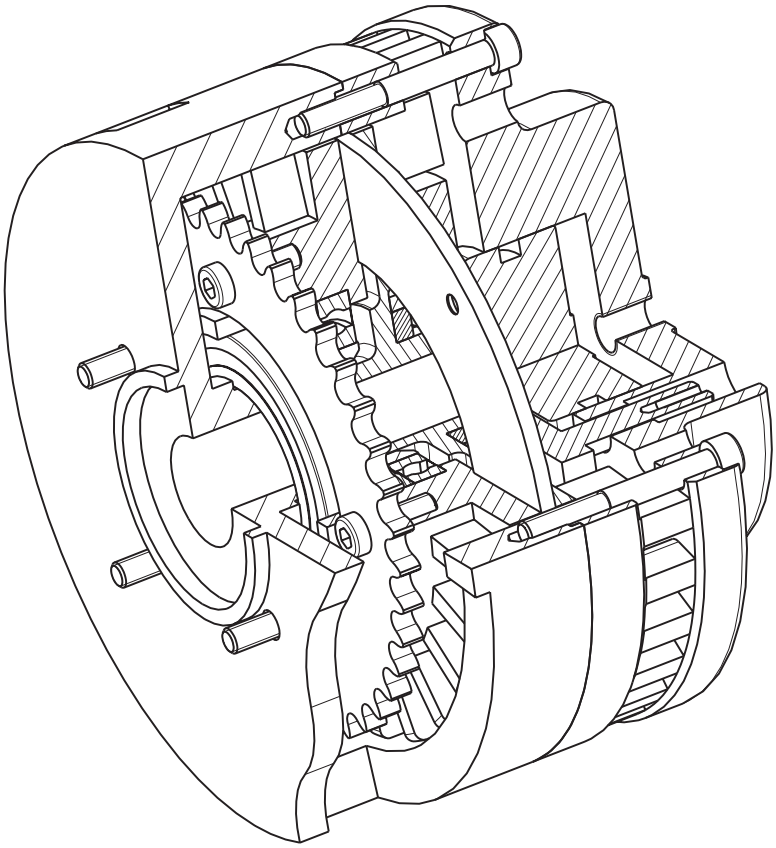
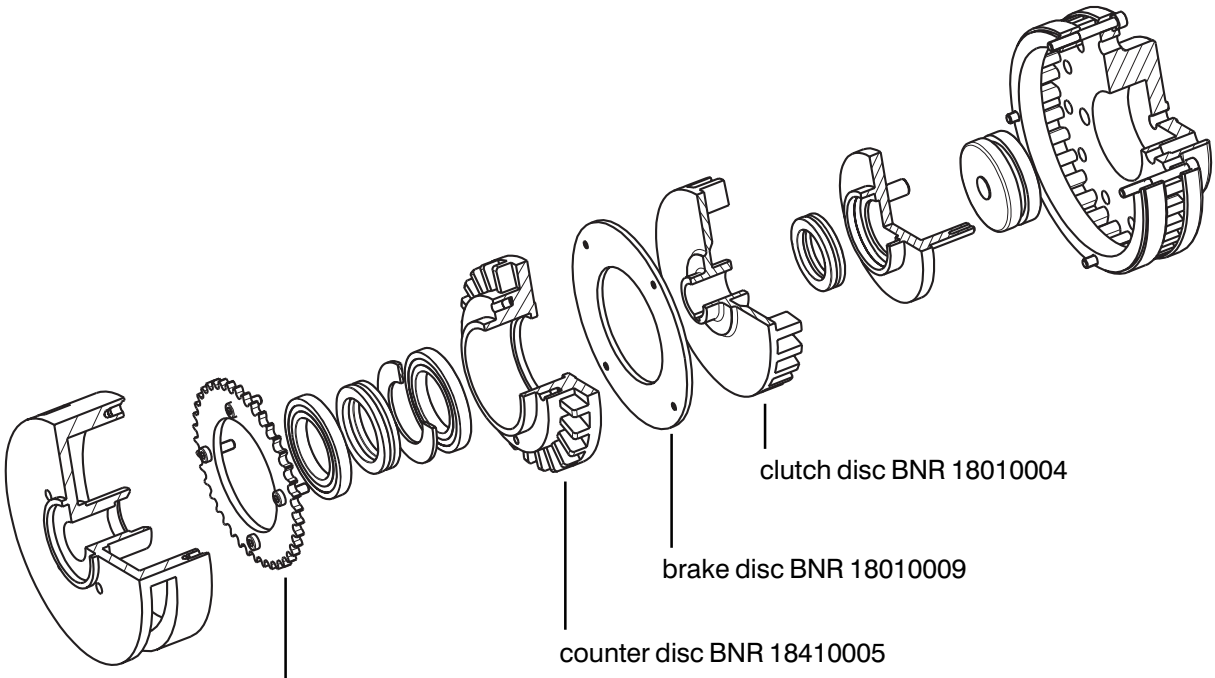
Clutch
wearing-parts

BOSCHERT





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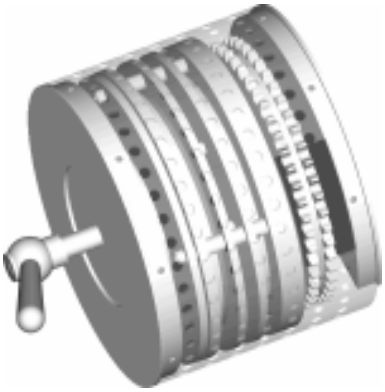
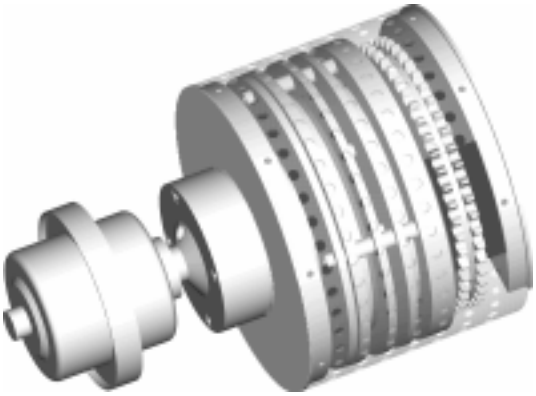
Changes reserved

7.30 Heavy duty clutch type 0.75 kW



Heavy duty clutch manual

Heavy duty clutch pneumatic



Heavy duty clutch with membrane cylinder II

	Clutch		
	manual	**pneumatic**	**membrane II**
type 30-40/40-50			
frictions performance kW (h.p.)	0.75 (0.5625)	0.75 (0.5625)	0.75 (0.5625)
min. frictions torque Nm (ft/lb)	10 (7)	25 (18)	35 (25)
max. frictions torque Nm (ft/lb)	250 (180)	250 (180)	550 (400)

max. frictions torque: 500 Nm (360 ft/lb) at 5 bar (75 psi) pressure

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Heavy duty clutch type 0.75 kW manual

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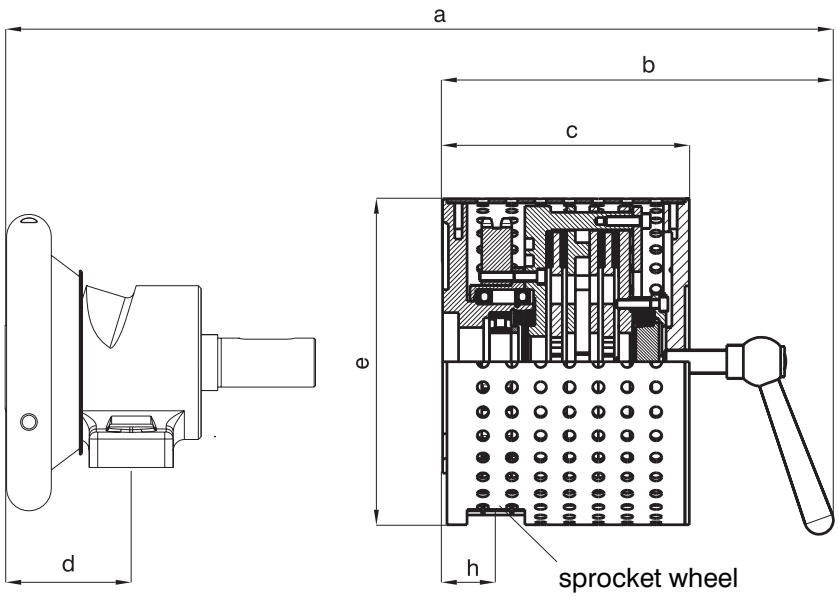
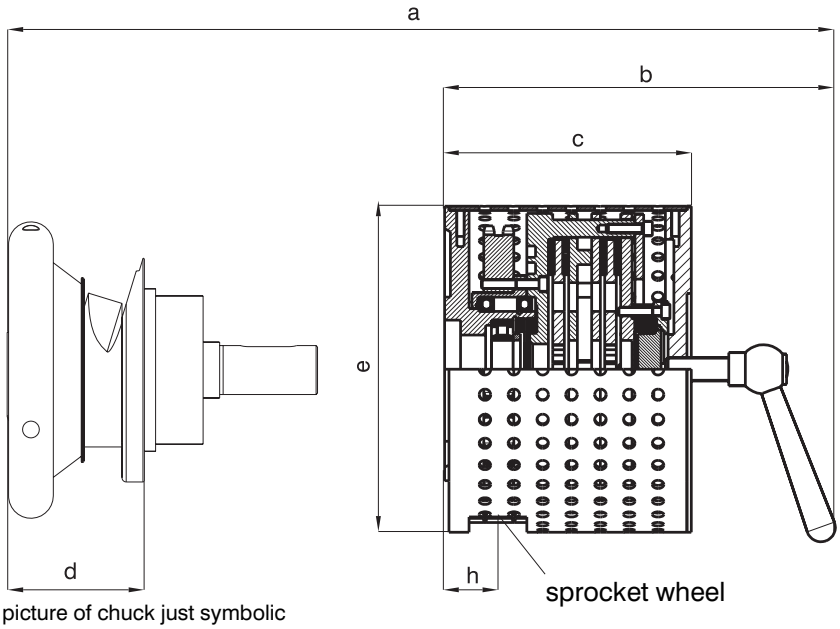
Foot mounted chuck with heavy duty clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
ST 30 - 40 + HRU 0.75 kW manual	352	216	171	90	Ø 226	38
ST 40 - 50 + HRU 0.75 kW manual	402	216	171	84	Ø 226	38

Flange mounted chuck with heavy duty clutch manual



picture of chuck just symbolic

	a	b	c	d	e	h
FL 30 - 40 + HRU 0.75 kW manual	352	216	171	98	Ø 226	38
FL 40 - 50 + HRU 0.75 kW manual	402	216	171	130	Ø 226	38

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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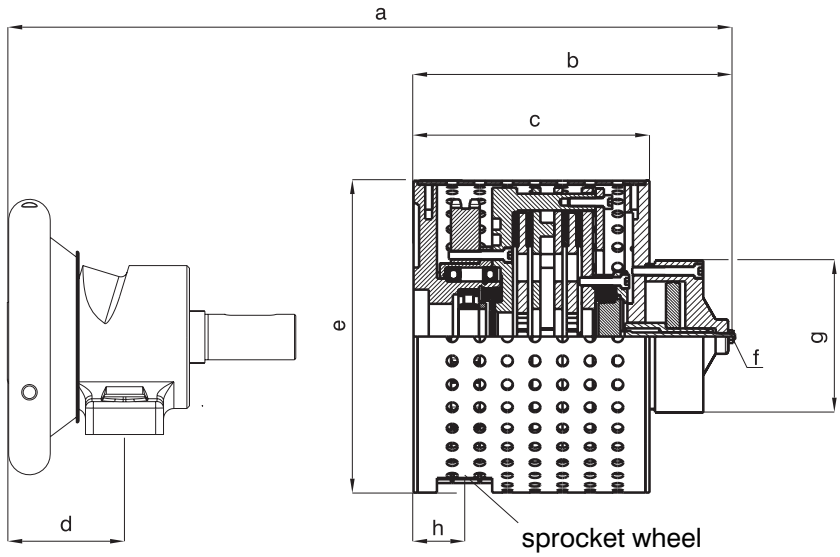
Heavy duty clutch type 0.75 kW pneumatic

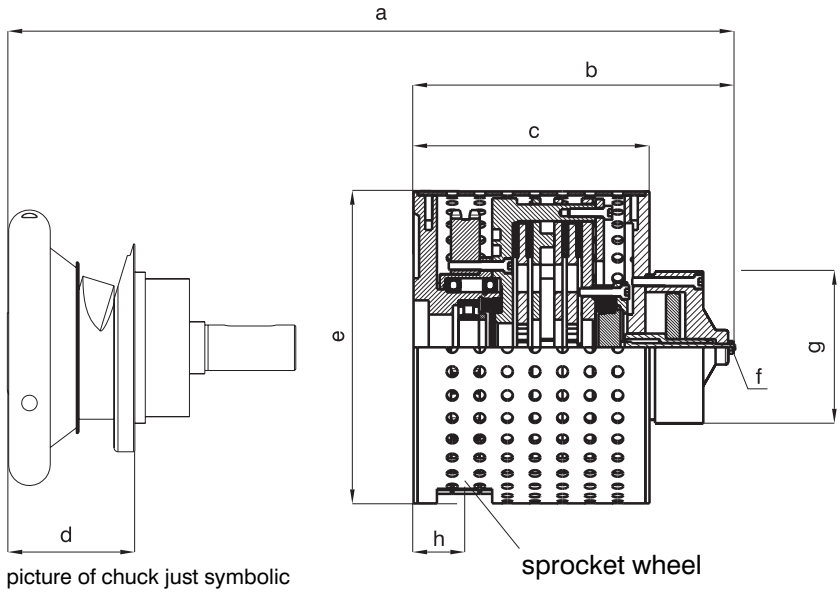
Foot mounted chuck with heavy duty clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST 30 - 40 + HRU 0.75 kW pneumatic	371	235	171	90	Ø 226	G 1/4	Ø 110	38
ST 40 - 50 + HRU 0.75 kW pneumatic	421	235	171	84	Ø 226	G 1/4	Ø 110	38

Flange mounted chuck with heavy duty clutch pneumatic



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL 30 - 40 + HRU 0.75 kW pneumatic	371	235	171	98	Ø 226	G 1/4	Ø 110	38
FL 40 - 50 + HRU 0.75 kW pneumatic	421	235	171	130	Ø 226	G 1/4	Ø 110	38

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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Heavy duty clutch type 0.75 kW membrane cylinder II

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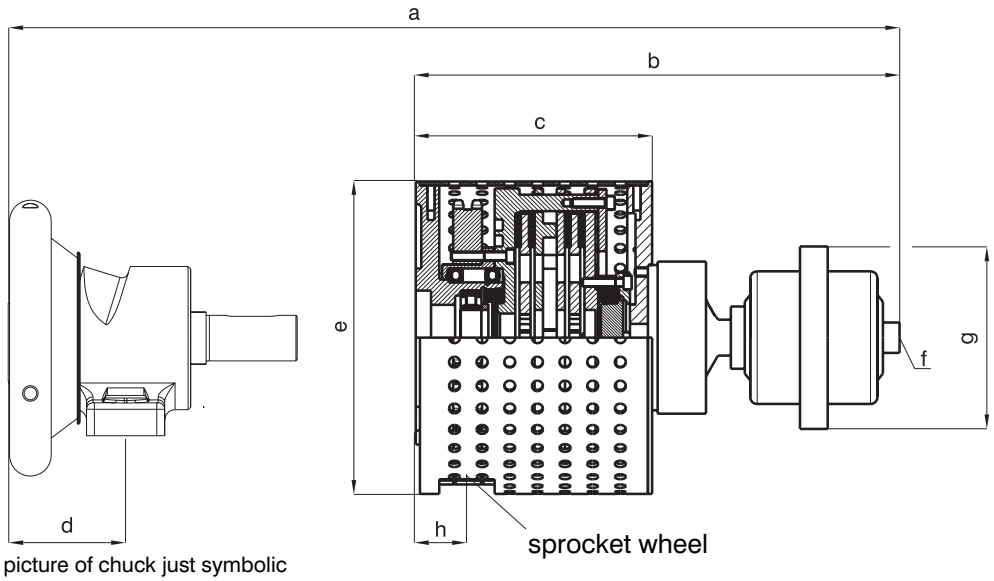
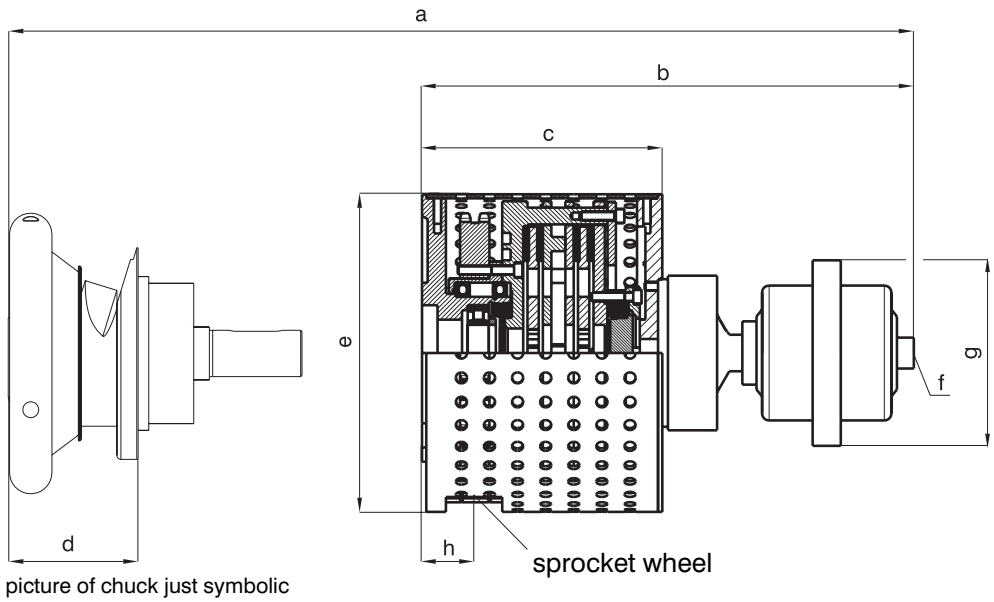
Foot mounted chuck with heavy duty clutch and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
ST 30 - 40 + HRU 0.75 kW membrane cylinder II	460	324	171	90	Ø 226	G 1/4	Ø 132	38
ST 40 - 50 + HRU 0.75 kW membrane cylinder II	510	324	171	84	Ø 226	G 1/4	Ø 132	38

Flange mounted chuck with heavy duty clutch and membrane cylinder II



picture of chuck just symbolic

	a	b	c	d	e	f	g	h
FL 30 - 40 + HRU 0.75 kW membrane cylinder II	460	324	171	98	Ø 226	G 1/4	Ø 132	38
FL 40 - 50 + HRU 0.75 kW membrane cylinder II	510	324	171	130	Ø 226	G 1/4	Ø 132	38

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see chapter 5.50

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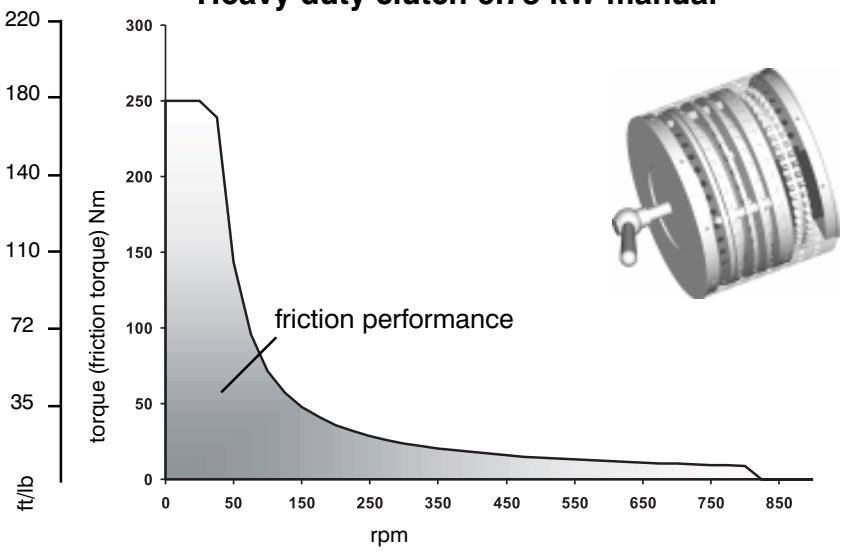
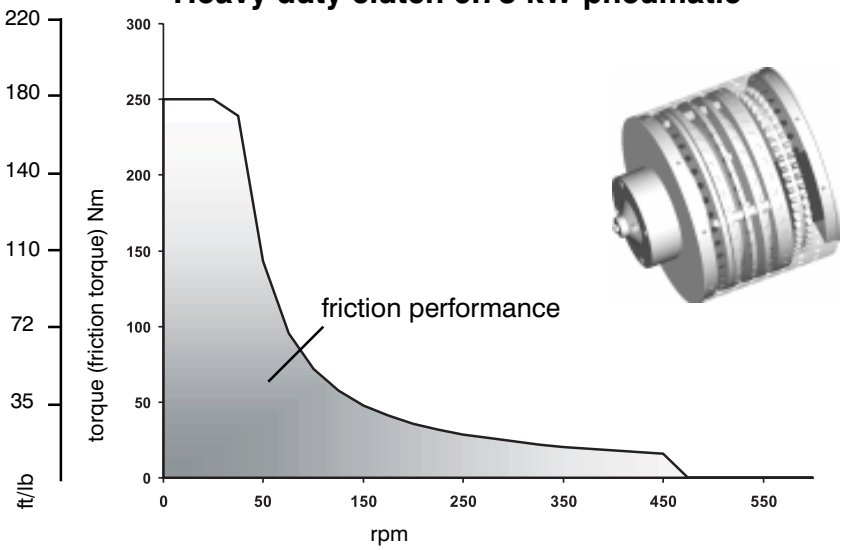
performance diagrams
HRU 0.75 kW

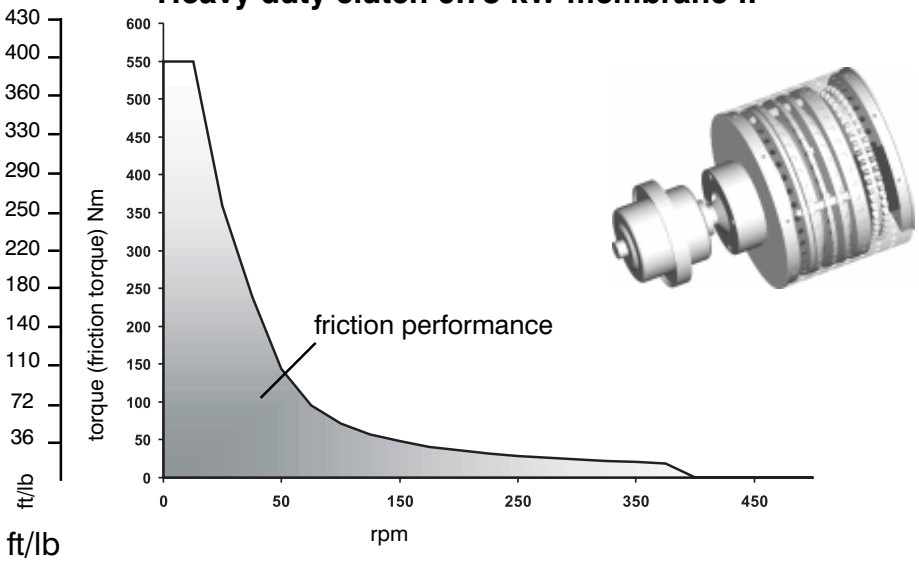
Heavy duty clutch 0.75 kW manual



Heavy duty clutch 0.75 kW pneumatic



Heavy duty clutch 0.75 kW membrane II



1 Nm = 0.7234 ft/lb

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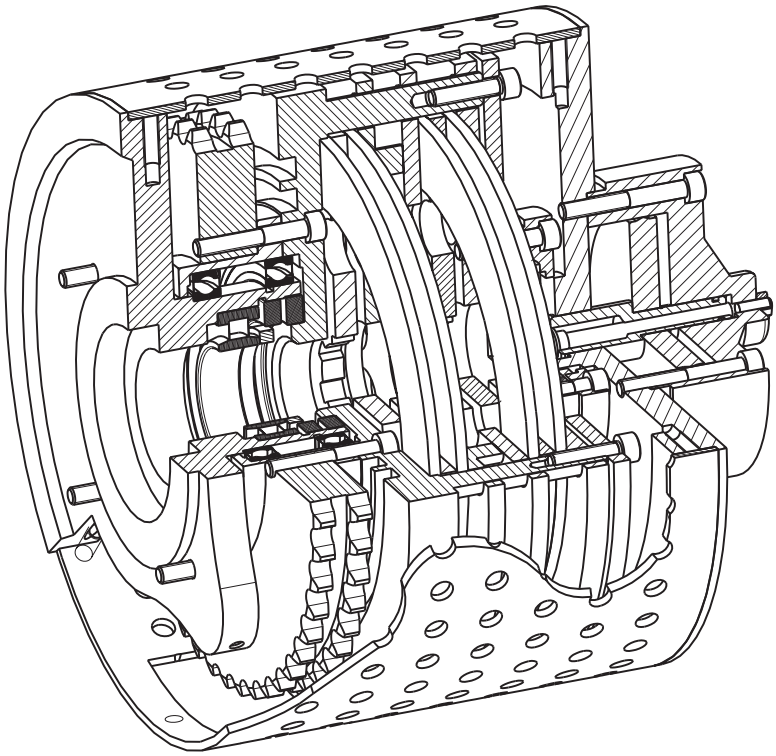
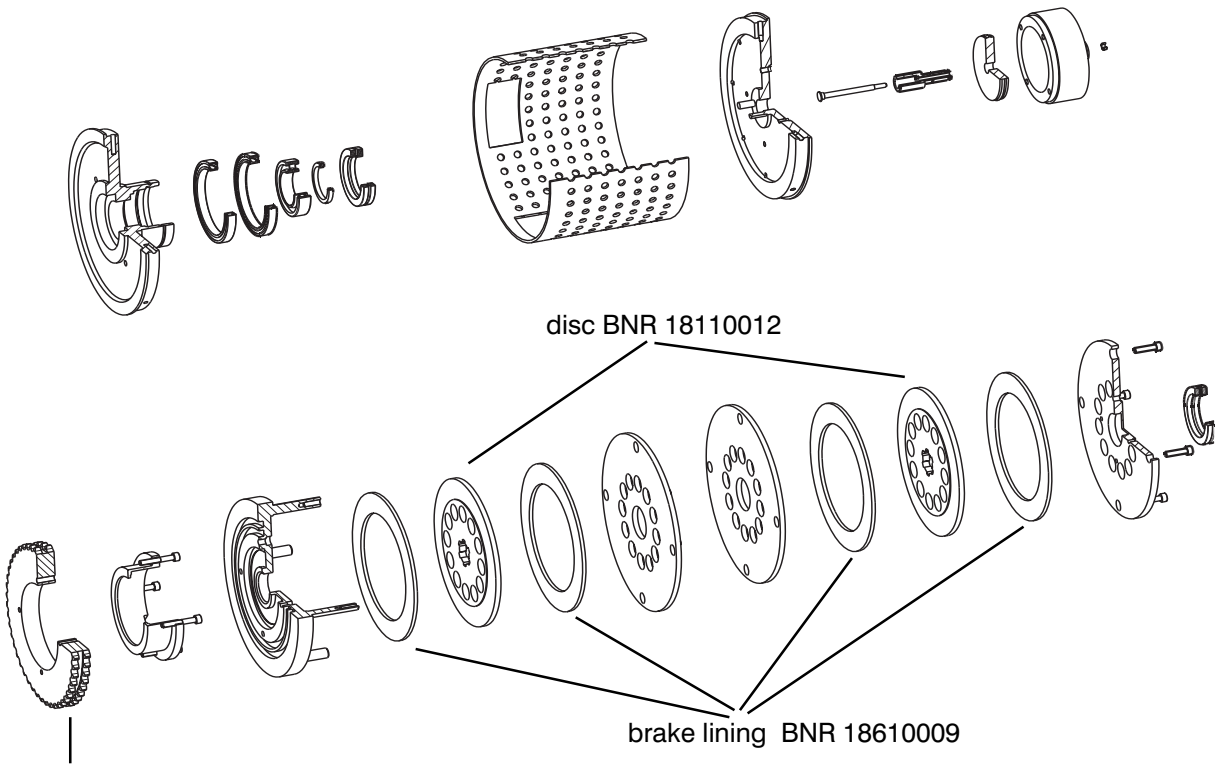
Heavy duty clutch 0.75 kw wearing-parts





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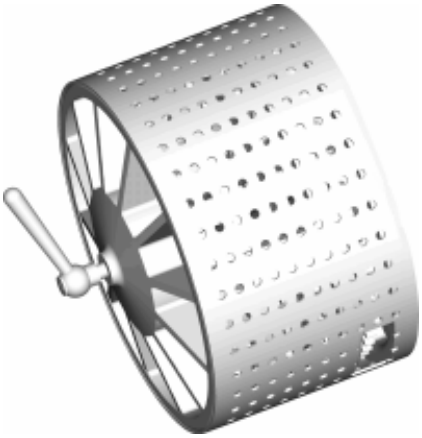
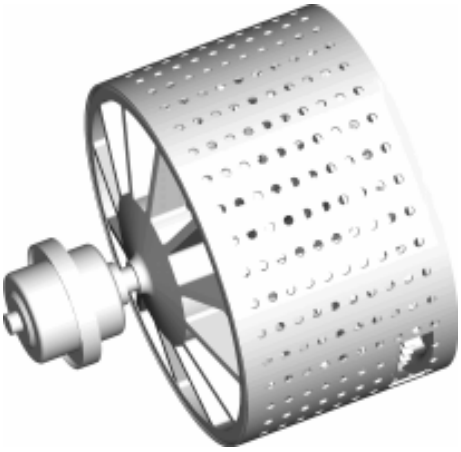
7.40 Heavy duty clutch type 1.5 kW



Heavy duty clutch manual

heavy duty clutch pneumatic



heavy duty clutch with membrane cylinder II

	clutch		
	manual	**pneumatic**	**membrane II**
type 30-40/40-50			
friction performance kW (h.p.)	1.5 (1.125)	1.5 (1.125)	1.5 (1.125)
min. friction torque Nm (ft/lb)	2 (1.45)	5 (3.62)	4 (2.89
max. friction torque Nm (ft/lb)	500 (360)	500 (360)	500 (360)

max. friction torque: 500 Nm (360 ft/lb) at 5 bar (75 psi) pressure

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Heavy duty clutch type 1.5 kW manual

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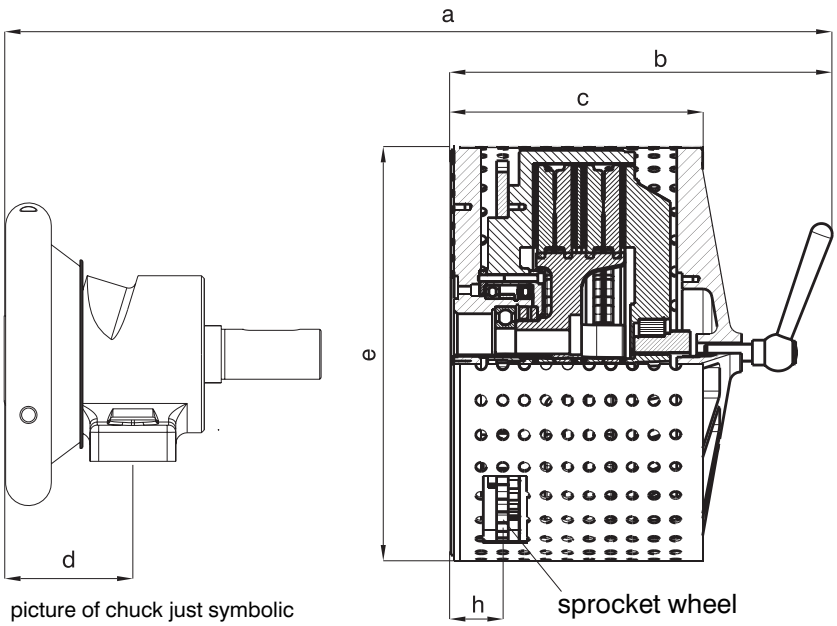
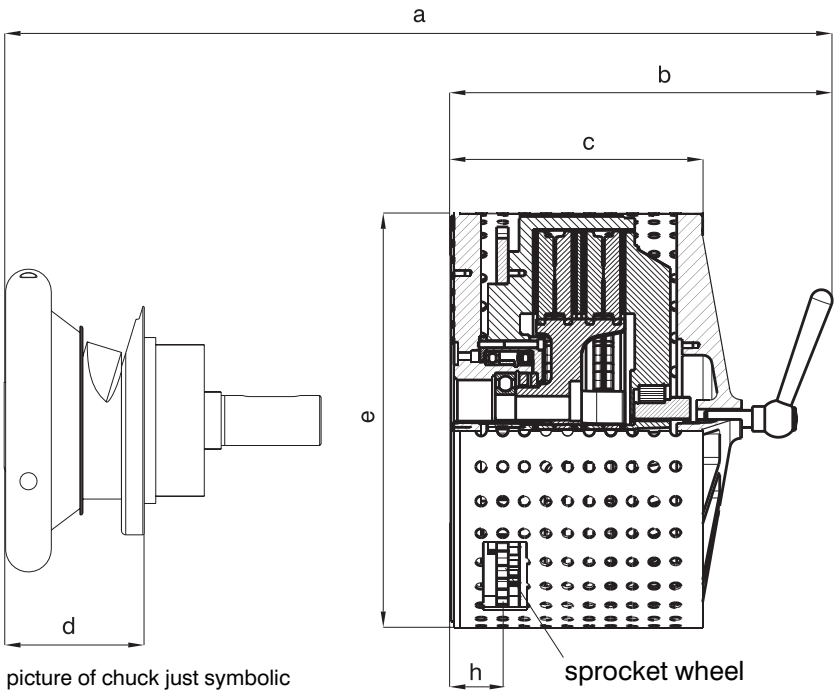
Foot mounted chuck with heavy duty clutch manual



	a	b	c	d	e	h
ST 30 - 40 + HRU 1.5 kW manual	409	274	192	90	Ø 386	45
ST 40 - 50 + HRU 1.5 kW manual	459	274	192	84	Ø 386	45

Flange mounted chuck with heavy duty clutch manual



	a	b	c	d	e	h
FL 30 - 40 + HRU 1.5 kW manual	409	274	192	98	Ø 386	45
FL 40 - 50 + HRU 1.5 kW manual	459	274	192	130	Ø 386	45

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.53

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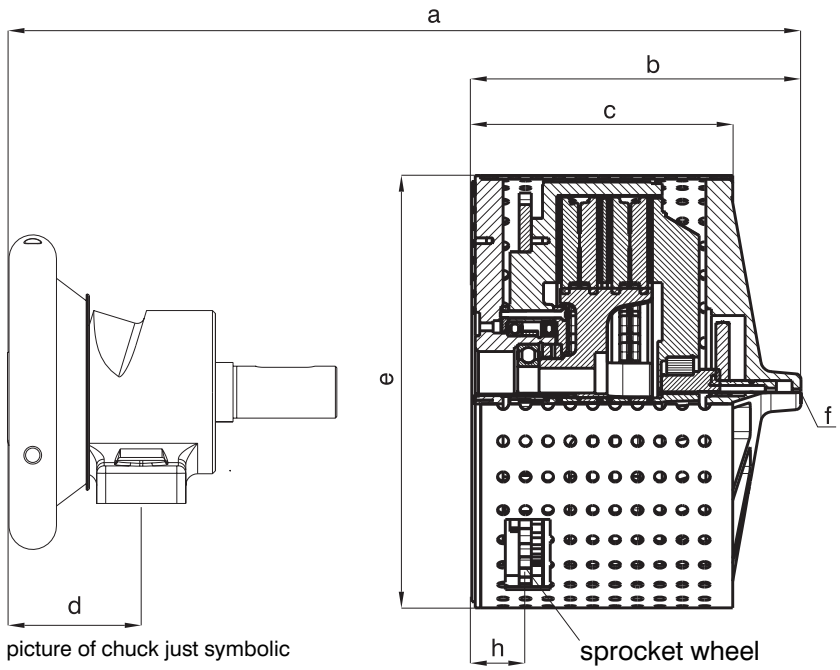
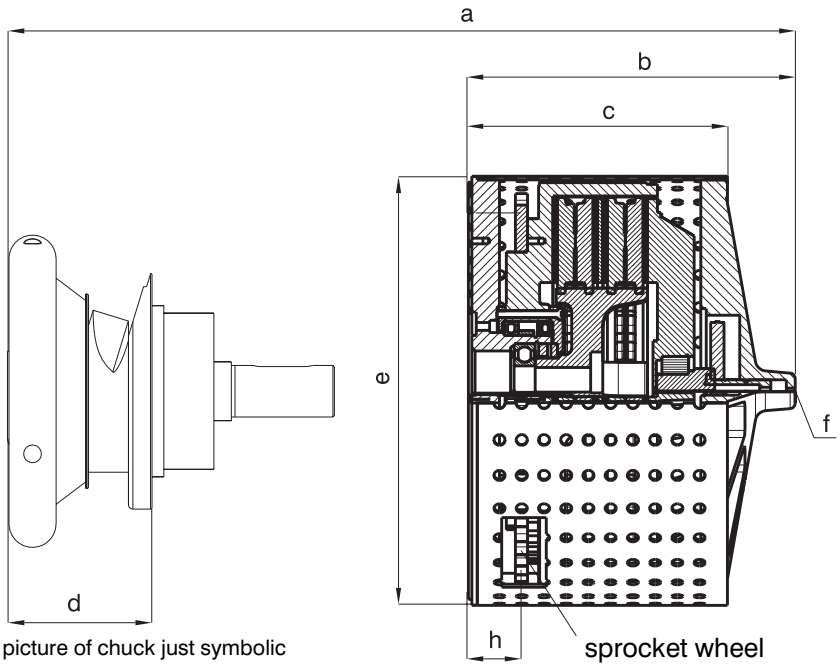
Heavy duty clutch type 1.5 kW pneumatic

Foot mounted chuck with heavy duty clutch pneumatic



	a	b	c	d	e	f	h
ST 30 - 40 + HRU 1.5 kW pneumatic	394.5	259.5	192	90	Ø 386	G 1/4	46
ST 40 - 50 + HRU 1.5 kW pneumatic	444.5	259.5	192	84	Ø 386	G 1/4	46

Flange mounted chuck with heavy duty clutch pneumatic



	a	b	c	d	e	f	h
FL 30 - 40 + HRU 1.5 kW pneumatic	394.5	259.5	192	98	Ø 386	G 1/4	46
FL 40 - 50 + HRU 1.5 kW pneumatic	444.5	259.5	192	130	Ø 386	G 1/4	46

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.53

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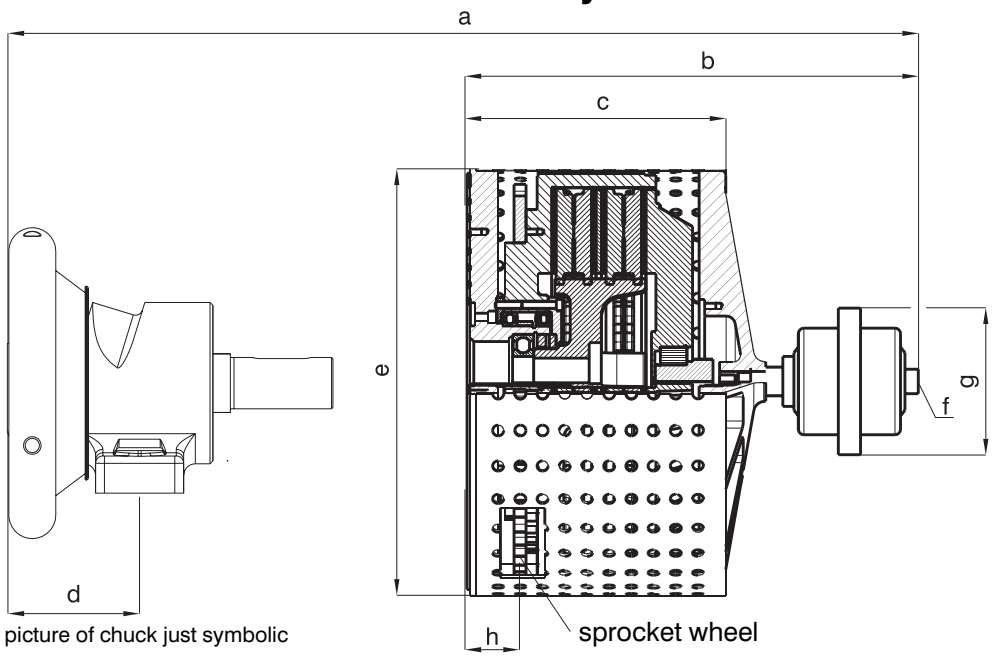
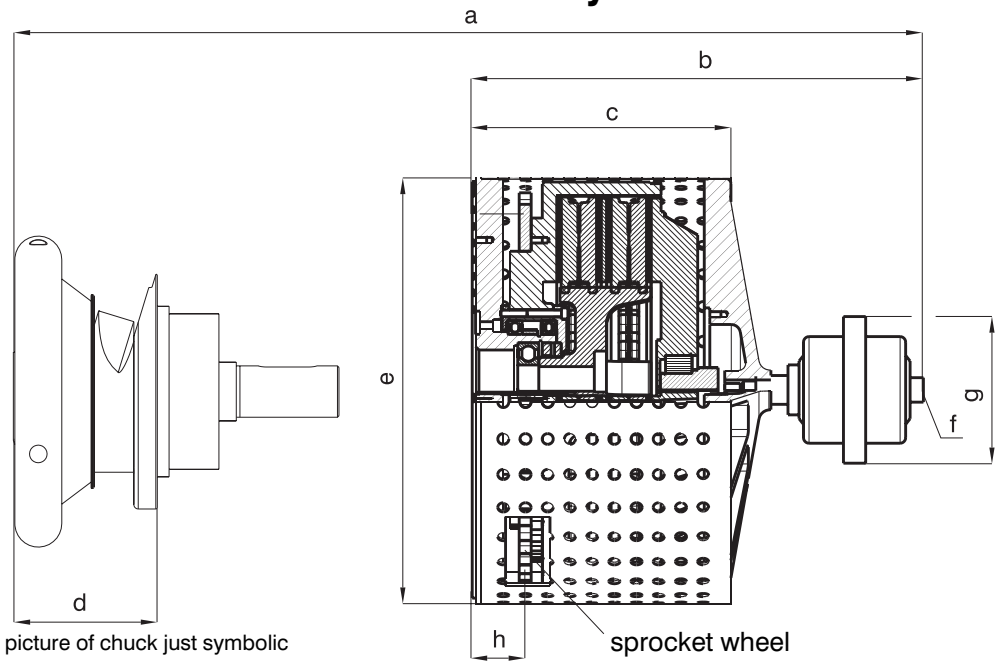
Heavy duty clutch type 1.5 kW membrane cylinder II

Foot mounted chuck with heavy duty clutch and membrane cylinder II



	a	b	c	d	e	f	g	h
ST 30 - 40 + HRU 1.5 kW membrane cylinder II	494	359	192	90	Ø 386	G 1/4	Ø 132	46
ST 40 - 50 + HRU 1.5 kW membrane cylinder II	544	359	192	84	Ø 386	G 1/4	Ø 132	46

Flange mounted chuck with heavy duty clutch and membrane cylinder II



	a	b	c	d	e	f	g	h
FL 30 - 40 + HRU 1.5 kW membrane cylinder II	494	359	192	98	Ø 386	G 1/4	Ø 132	46
FL 40 - 50 + HRU 1.5 kW membrane cylinder II	544	359	192	130	Ø 386	G 1/4	Ø 132	46

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.53

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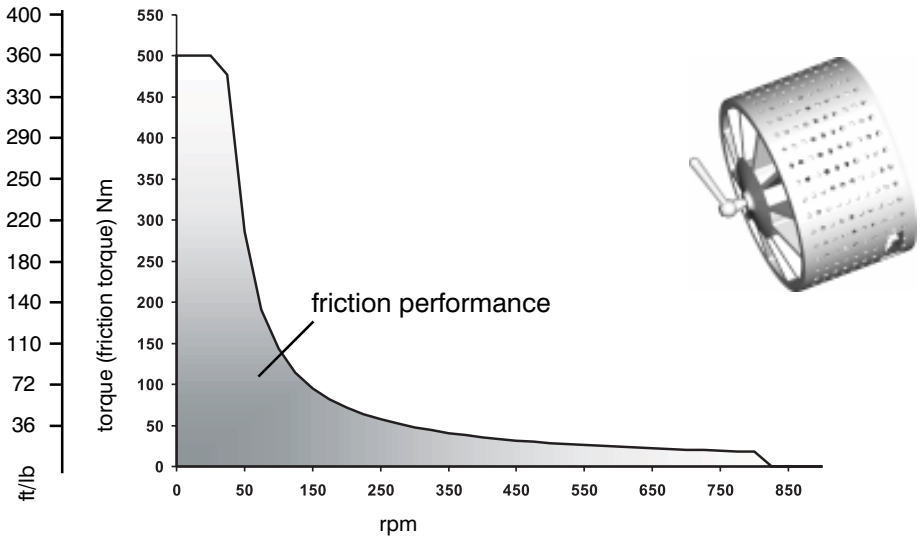
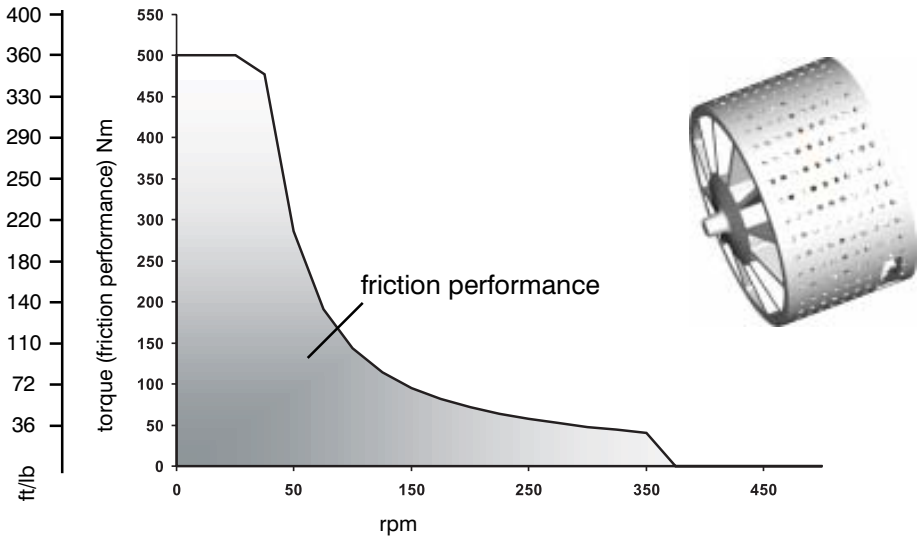
performance diagrams
HRU 1.5 kW

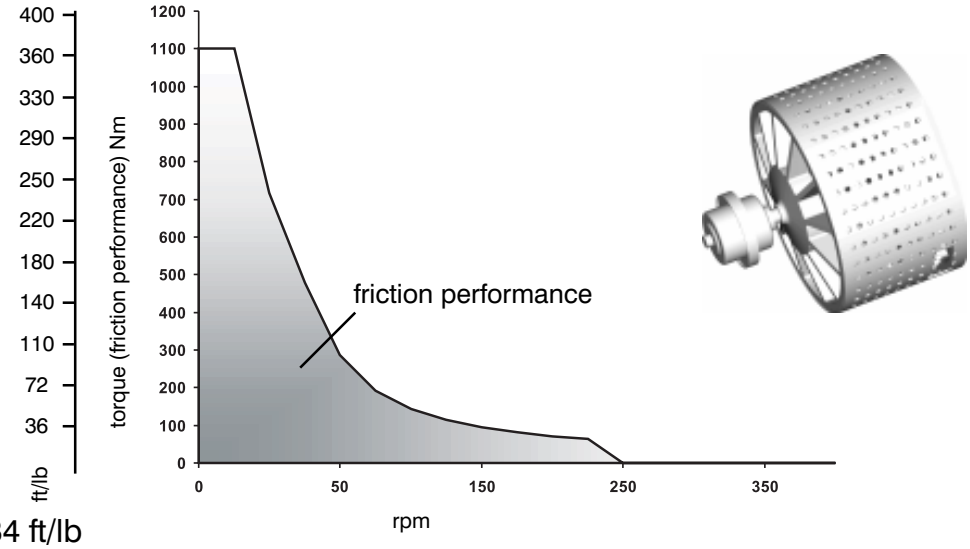
Heavy duty clutch 1.5 kW manual



Heavy duty clutch 1.5 kW pneumatic



Heavy duty clutch 1.5 kW membrane cylinder II



1 Nm = 0.7234 ft/lb

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HRU 1,5 kW
wearing-parts

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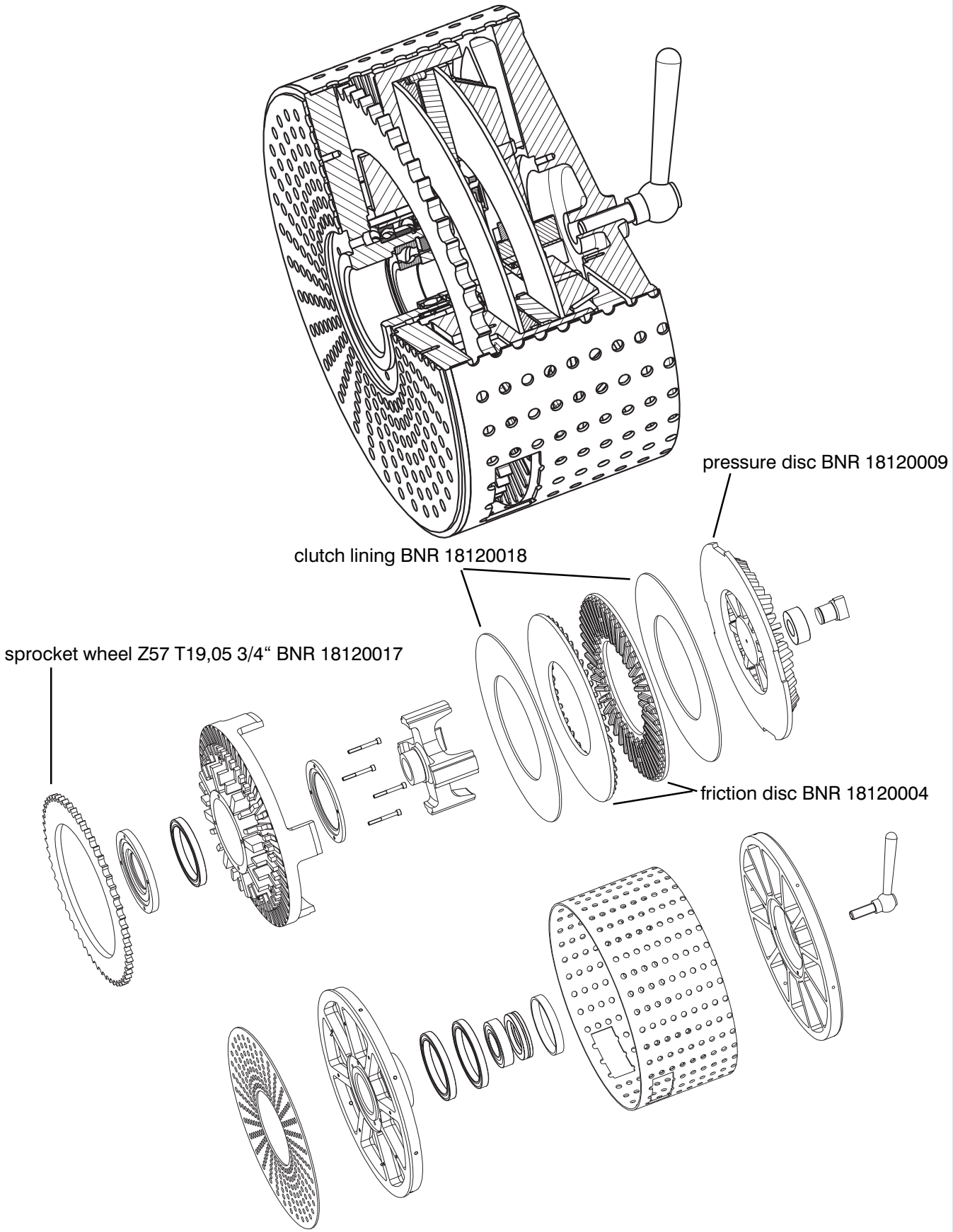

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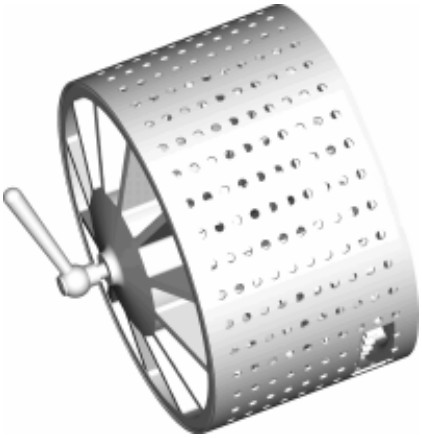
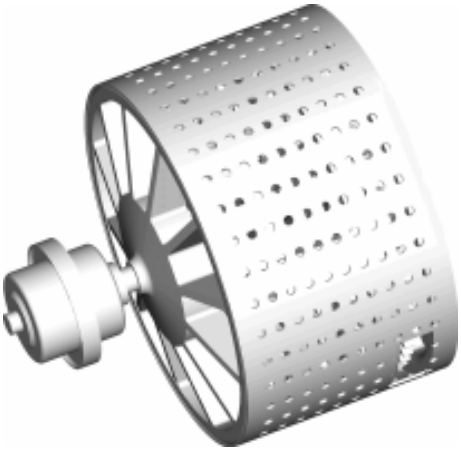
Changes reserved

7.50 Heavy duty clutch type 3 kW



Heavy duty clutch manual

Heavy duty clutch pneumatic



Heavy duty clutch with membrane cylinder II

	clutch		
	manual	**pneumatic**	**membrane II**
type 40-50/50-80			
friction performance kW (h.p.)	3 (2.25)	3 (2.25)	3 (2.25)
min. friction torque Nm (ft/lb)	40 (29)	100 (72)	140 (100)
max. friction torque Nm (ft/lb)	1000 (720)	1000 (720)	2200 (1590)

max. friction torque: 500 Nm (360 ft/lb) at 5 bar (75 psi) pressure

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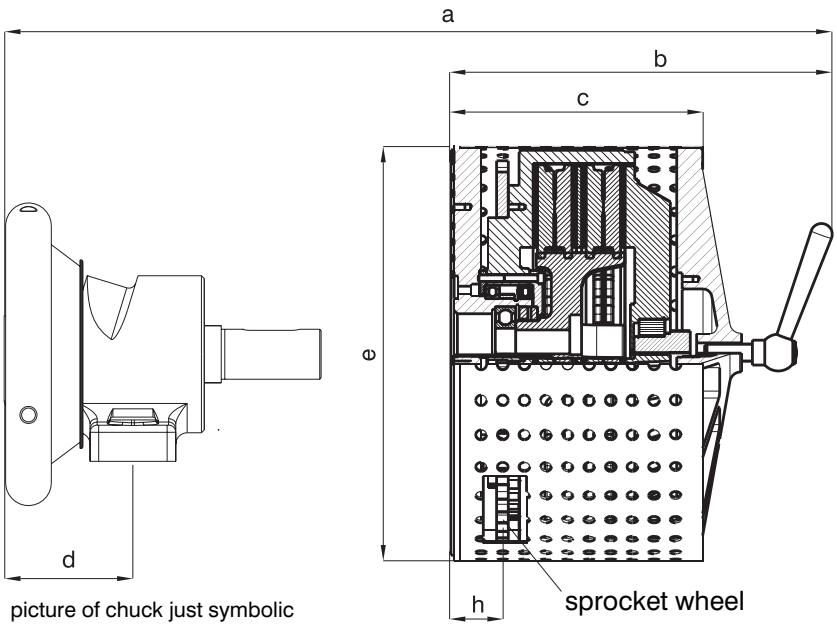
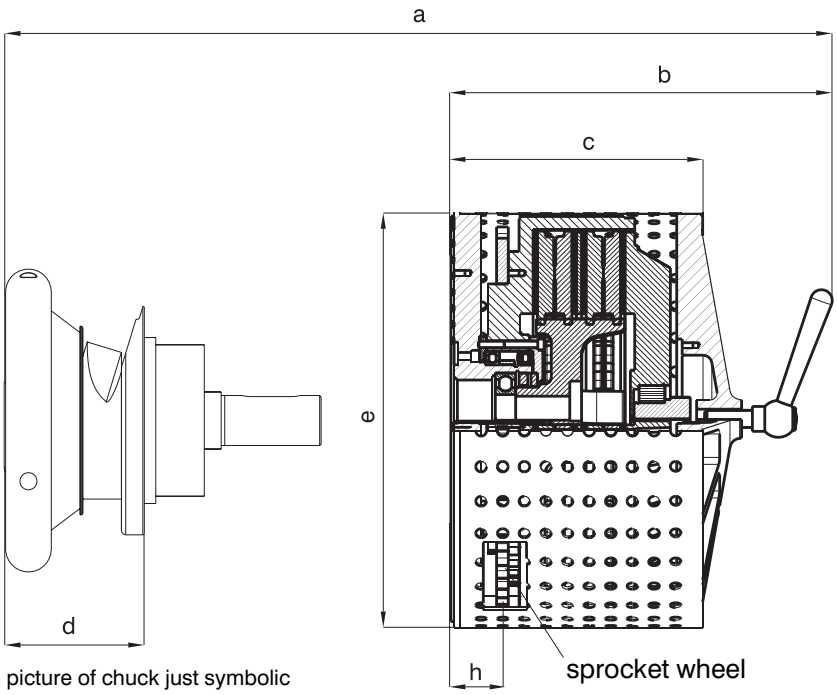
Heavy duty clutch type 3 kW manual

Foot mounted chuck with heavy duty clutch manual



	a	b	c	d	e	h
ST 40 - 50 + HRU 3 kW manual	500	315	185	84	Ø 386	48
ST 50 - 80 + HRU 3 kW manual	595	315	185	124	Ø 386	48

Flange mounted chuck with heavy duty clutch manual



	a	b	c	d	e	h
FL 40 - 50 + HRU 3 kW manual	500	315	185	130	Ø 386	48
FL 50 - 80 + HRU 3 kW manual	595	315	185	200	Ø 386	48

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.54

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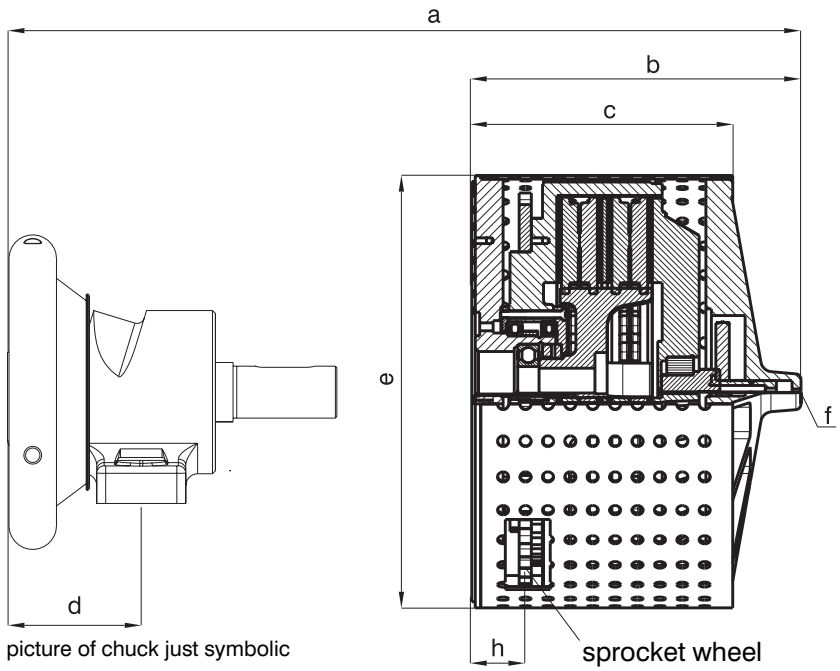
Changes reserved (a)

Heavy duty clutch type 3 kW pneumatic

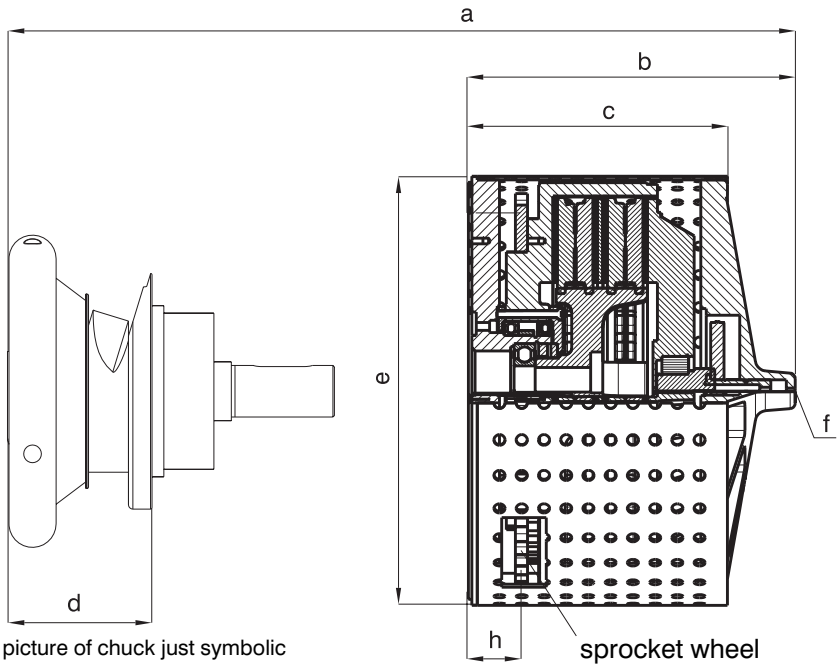
BOSCHERT

Foot mounted chuck with heavy duty clutch pneumatic



	a	b	c	d	e	f	h
ST 40 - 50 + HRU 3 kW pneumatic	501.5	316.5	249	84	Ø 386	G 1/4	50
ST 50 - 80 + HRU 3 kW pneumatic	596.5	316.5	249	124	Ø 386	G 1/4	50

Flange mounted chuck with heavy duty clutch pneumatic



	a	b	c	d	e	f	h
FL 40 - 50 + HRU 3 kW pneumatic	501.5	316.5	249	130	Ø 386	G 1/4	50
FL 50 - 80 + HRU 3 kW pneumatic	596.5	316.5	249	200	Ø 386	G 1/4	50

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.54

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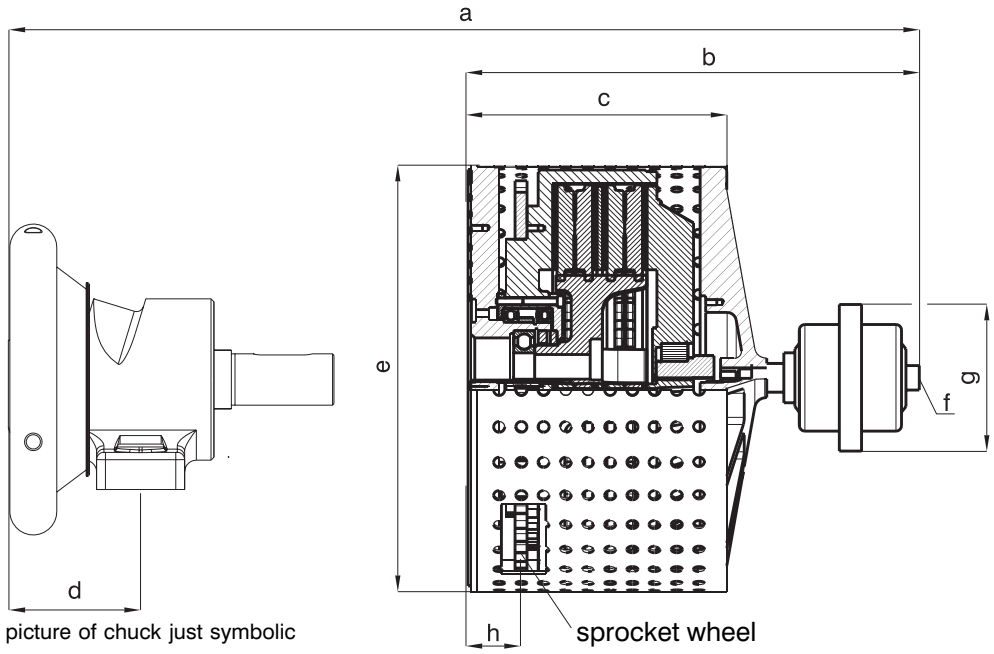
(a) Changes reserved

Heavy duty clutch type 3 kW membrane cylinder II

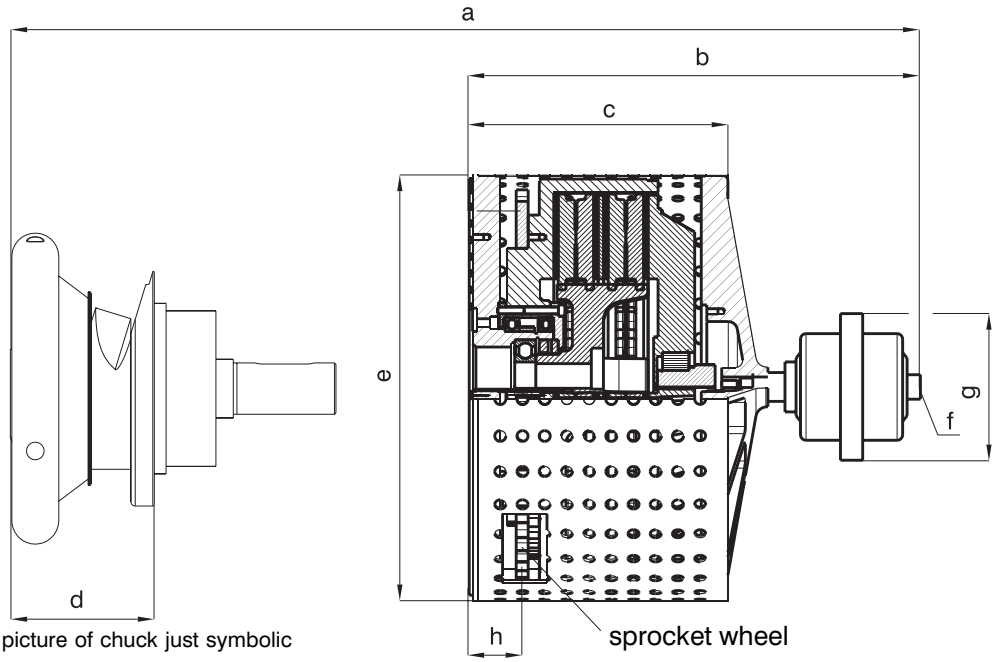
BOSCHERT

Foot mounted chuck with heavy duty clutch and membrane cylinder II



	a	b	c	d	e	f	g	h
ST 40 - 50 + HRU 3 kW membrane cylinder II	494	416	249	84	Ø 386	G 1/4	Ø 132	50
ST 50 - 80 + HRU 3 kW membrane cylinder II	696	416	249	124	Ø 386	G 1/4	Ø 132	50

Flange mounted chuck with heavy duty clutch and membrane cylinder II



	a	b	c	d	e	f	g	h
FL 40 - 50 + HRU 3 kW membrane cylinder II	494	416	249	130	Ø 386	G 1/4	Ø 132	50
FL 50 - 80 + HRU 3 kW membrane cylinder II	696	416	249	200	Ø 386	G 1/4	Ø 132	50

Dimension schedule for Boschert-Chuck see chapter 2.00
Schedule for dimension diagram see page 5.54

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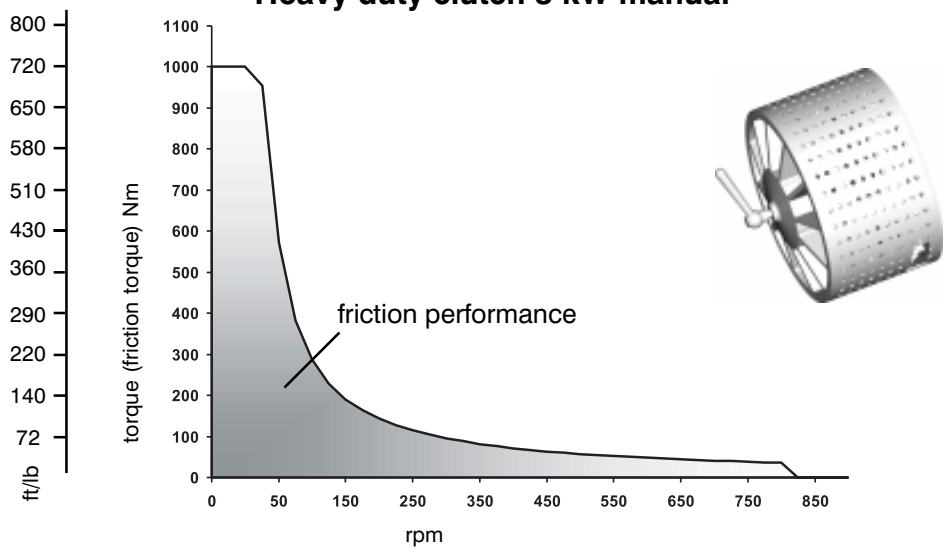
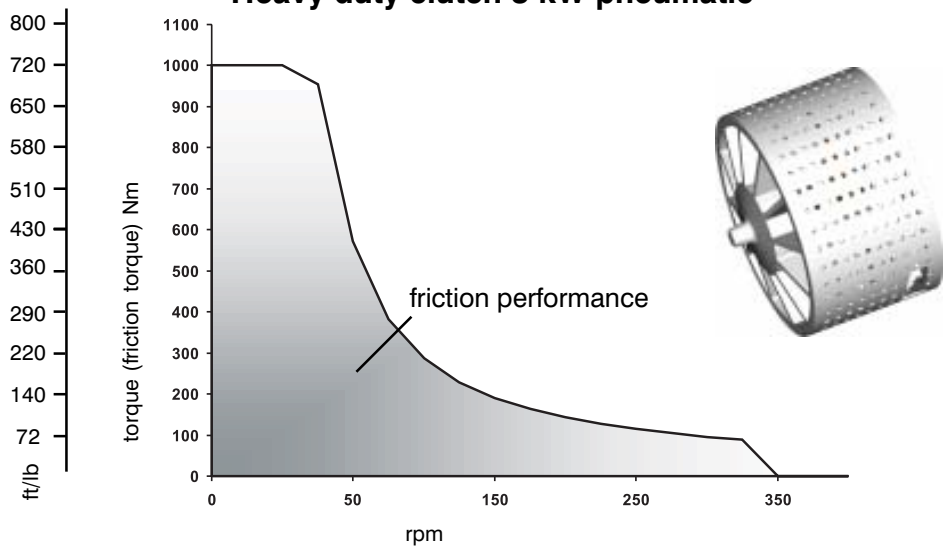
Changes reserved (a)

performance diagrams
HRU 3 kW

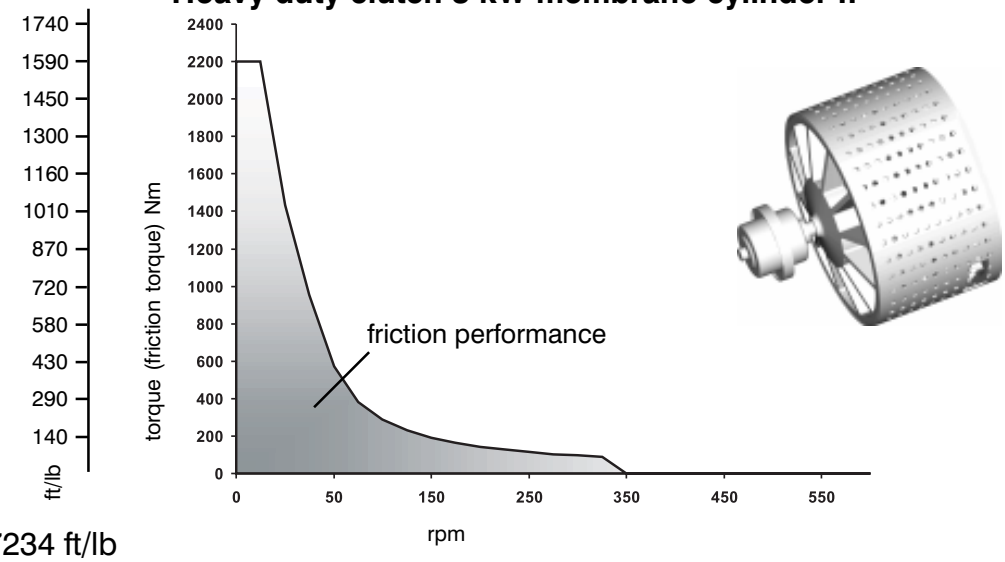
Heavy duty clutch 3 kW manual



Heavy duty clutch 3 kW pneumatic



Heavy duty clutch 3 kW membrane cylinder II



1 Nm = 0.7234 ft/lb

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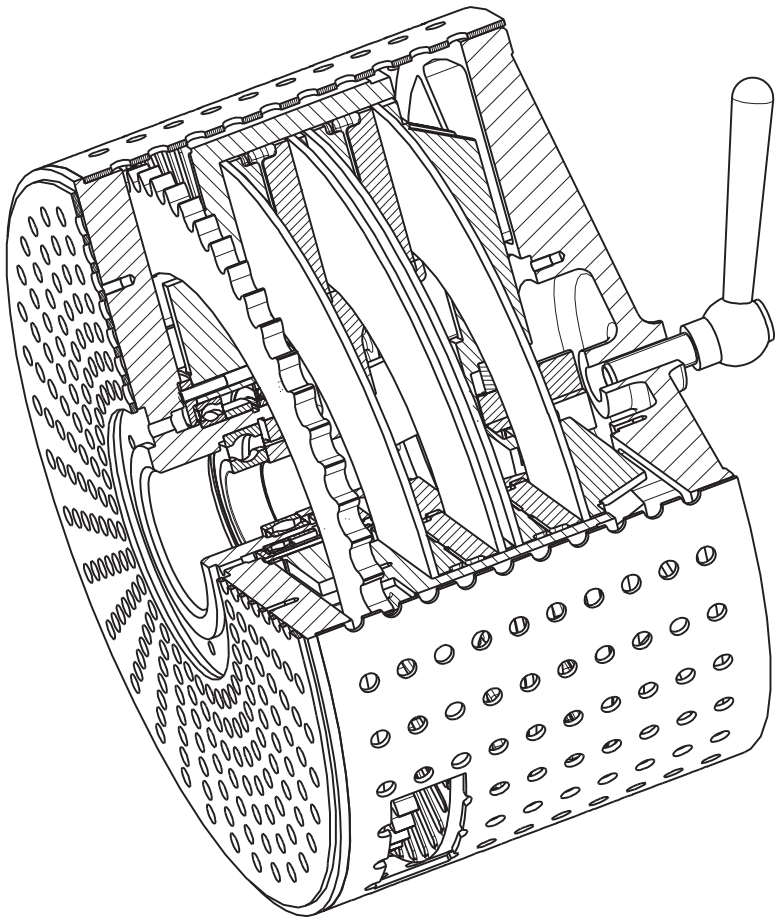
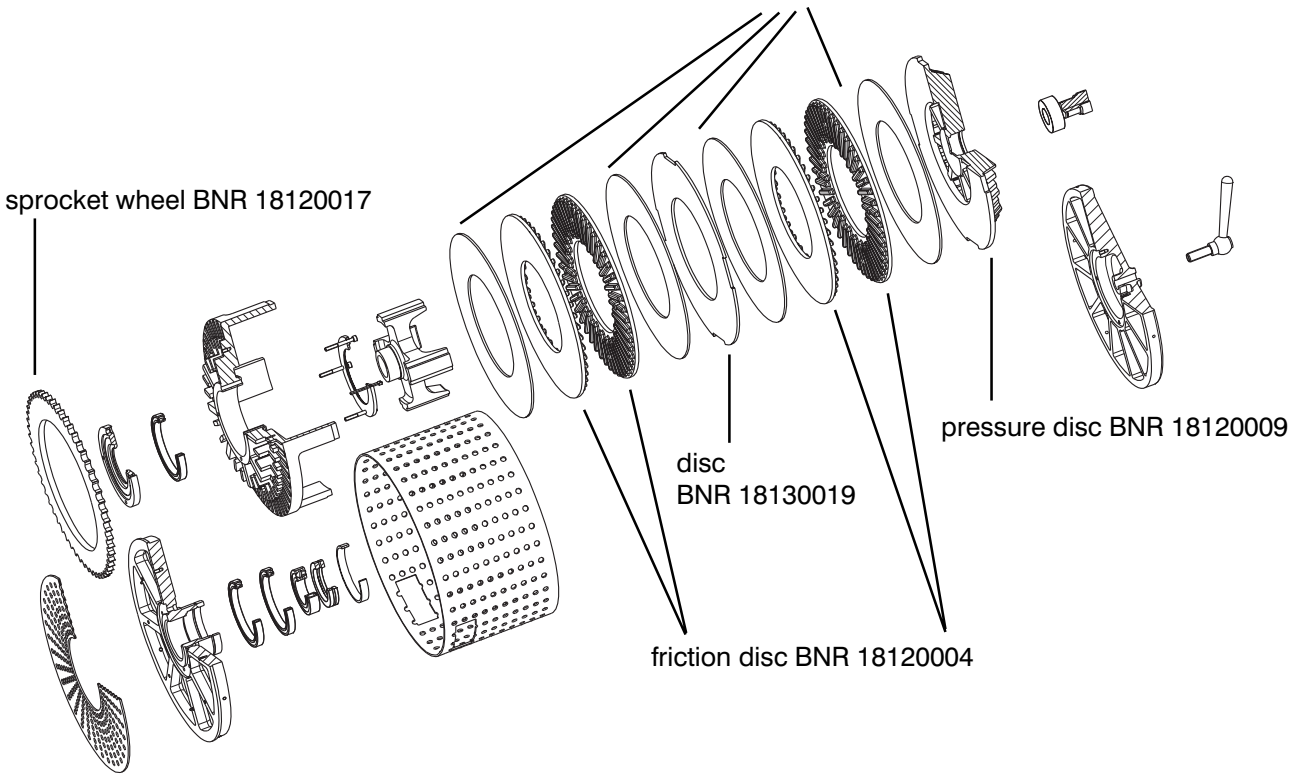
HRU 3 kW
wearing-parts

BOSCHERT



clutch lining BNR 18120018



7.55

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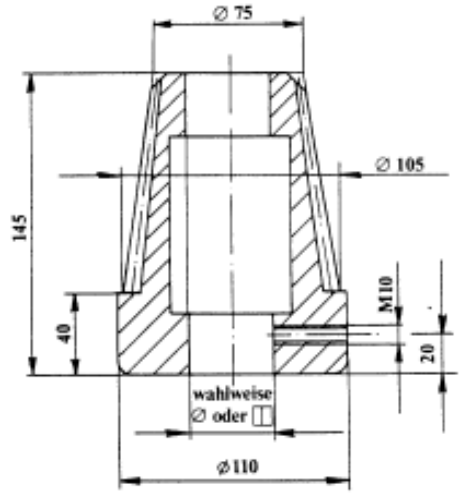
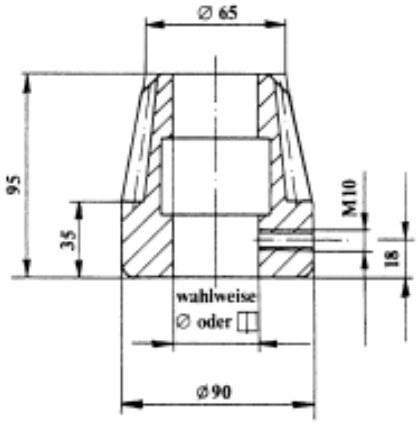
Changes reserved

8.00 Aluminium Cones

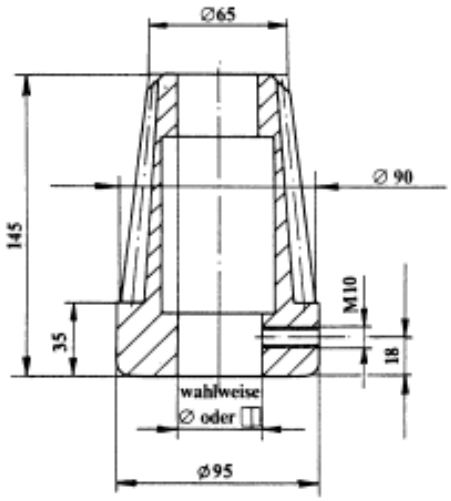
Aluminium cone model I



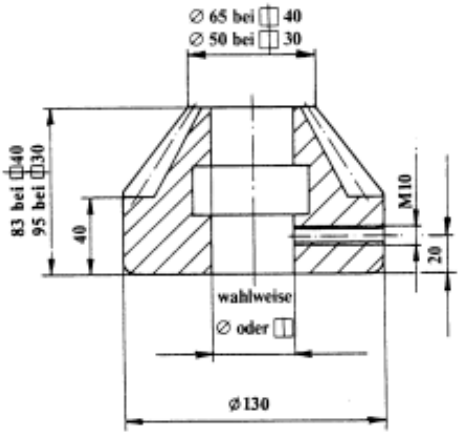
Aluminium cone model II



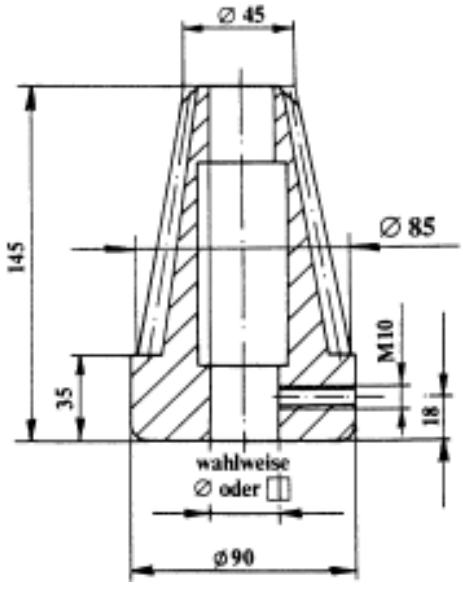
Aluminium cone model III



Aluminium cone model IV



Aluminium cone model V



Aluminium cones:

For tube diameters from 50 - 160 mm
Material: Cast Aluminium
Alternative: Ø or □

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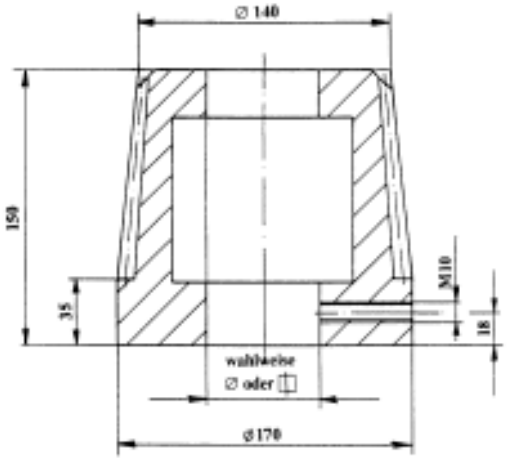
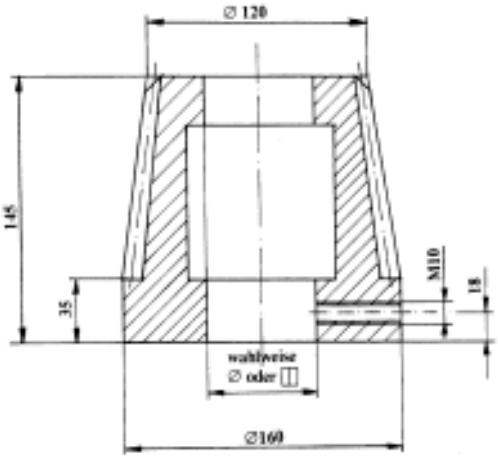
Aluminium cones

Aluminium cone model VI



Aluminium cone model VII



Standard-fittings for Aluminium cones

Model	Square bar	Diameter
I	30,40	min. 30 - max. 50
II	25,30,40	min. 24 - max. 50
III	25,30,40	min. 24 - max. 50
IV	30,40	min. 24 - max. 50
V	25,30	min. 24 - max. 40
VI	25,30,40,50,60	min. 30 - max. 80
VII	25,30,40,50,60	min. 30 - max. 80

Special designs on request

Aluminium cones:

For tube diameters from 50 - 160 mm
Material: Cast Aluminium
Alternative: Ø or □

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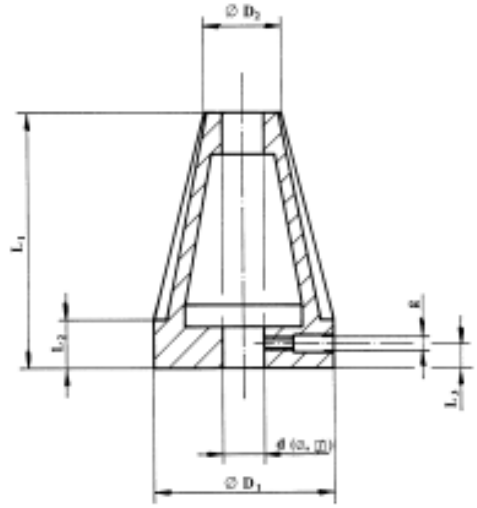
Changes reserved (a)

Aluminium cone model VIII, IX, X, XI, XII



Model	VIII	IX	X	XI	XII
Tube diameters Ø	60-120	120-180	225-280	275-330	75-180
d (Ø, □)	30,35,40	35,40,50	35,40,50	35,40,50	35,40
Ø D_1	130	190	290	340	190
Ø D_2	55(63)*	115	220	270	70
L_1	185(168)*				155
L_2	35				35
L_3	18				18
g	M10				M10

* only valid for: d = □ 40 Model VIII

Special designs on request

Aluminium cones:

For tube diameters from 50 - 160 mm
Material: Cast Aluminium
Alternative: Ø or □

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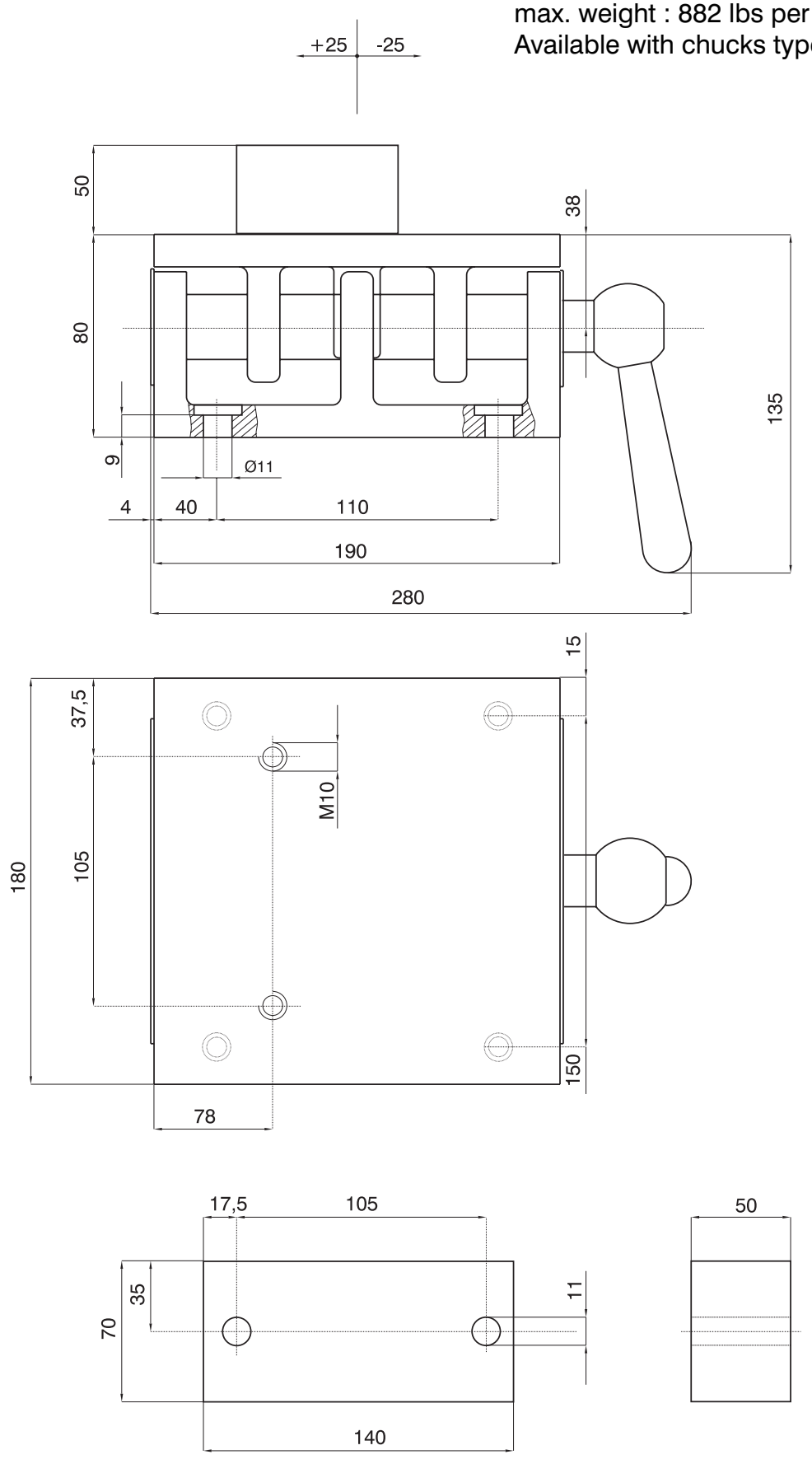
(a) Changes reserved

8.10 Axial slide 22-30

Slide adjustment : axial 50 mm
max. weight : 882 lbs per unit
Available with chucks type 22-30



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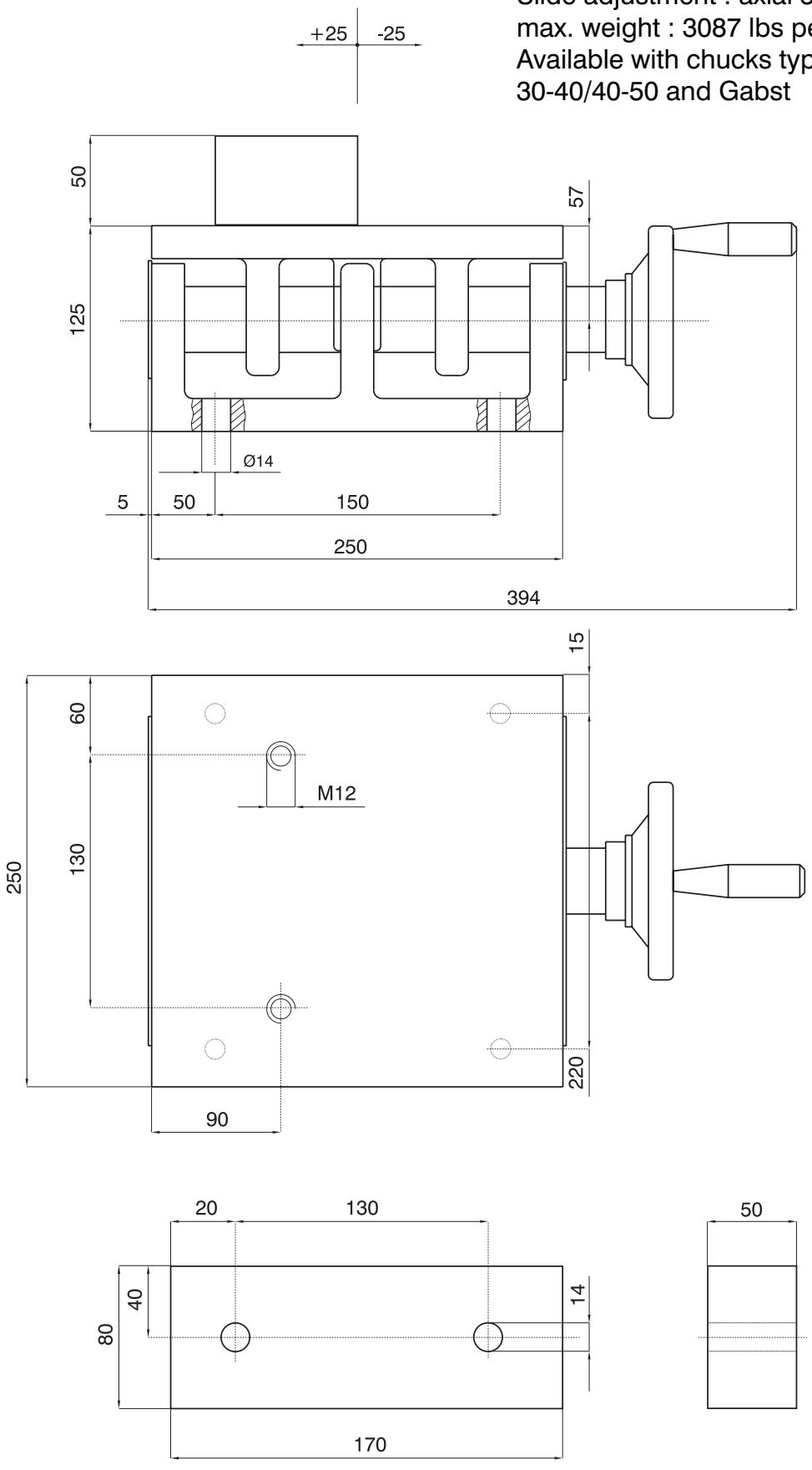
Changes reserved

Axial slide 30-40

Slide adjustment : axial 50 mm
max. weight : 3087 lbs per unit
Available with chucks type 22-30/
30-40/40-50 and Gabst



8.11

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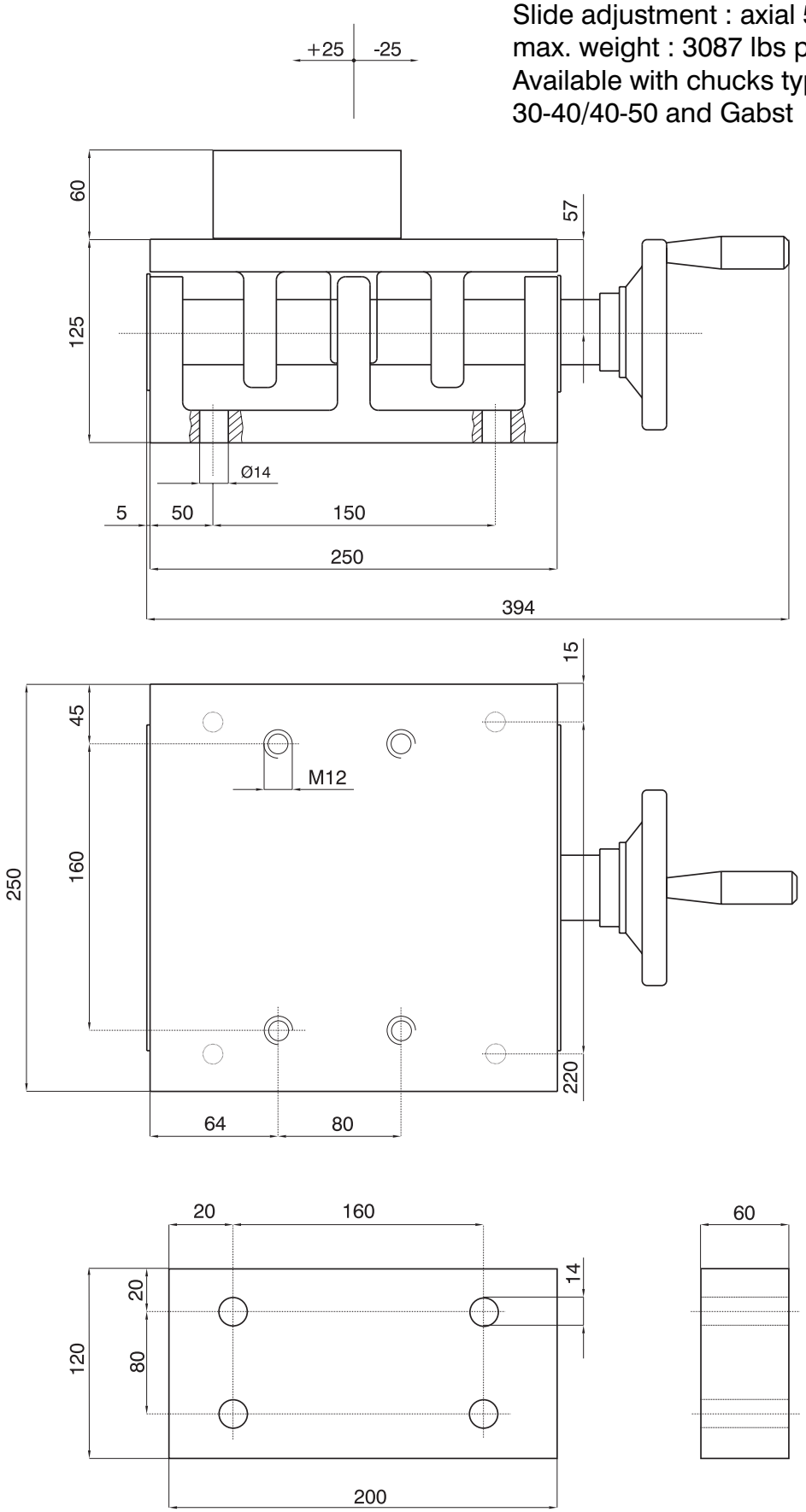
Changes reserved

Axial slide 40-50

Slide adjustment : axial 50 mm
max. weight : 3087 lbs per unit
Available with chucks type 22-30/ 30-40/40-50 and Gabst



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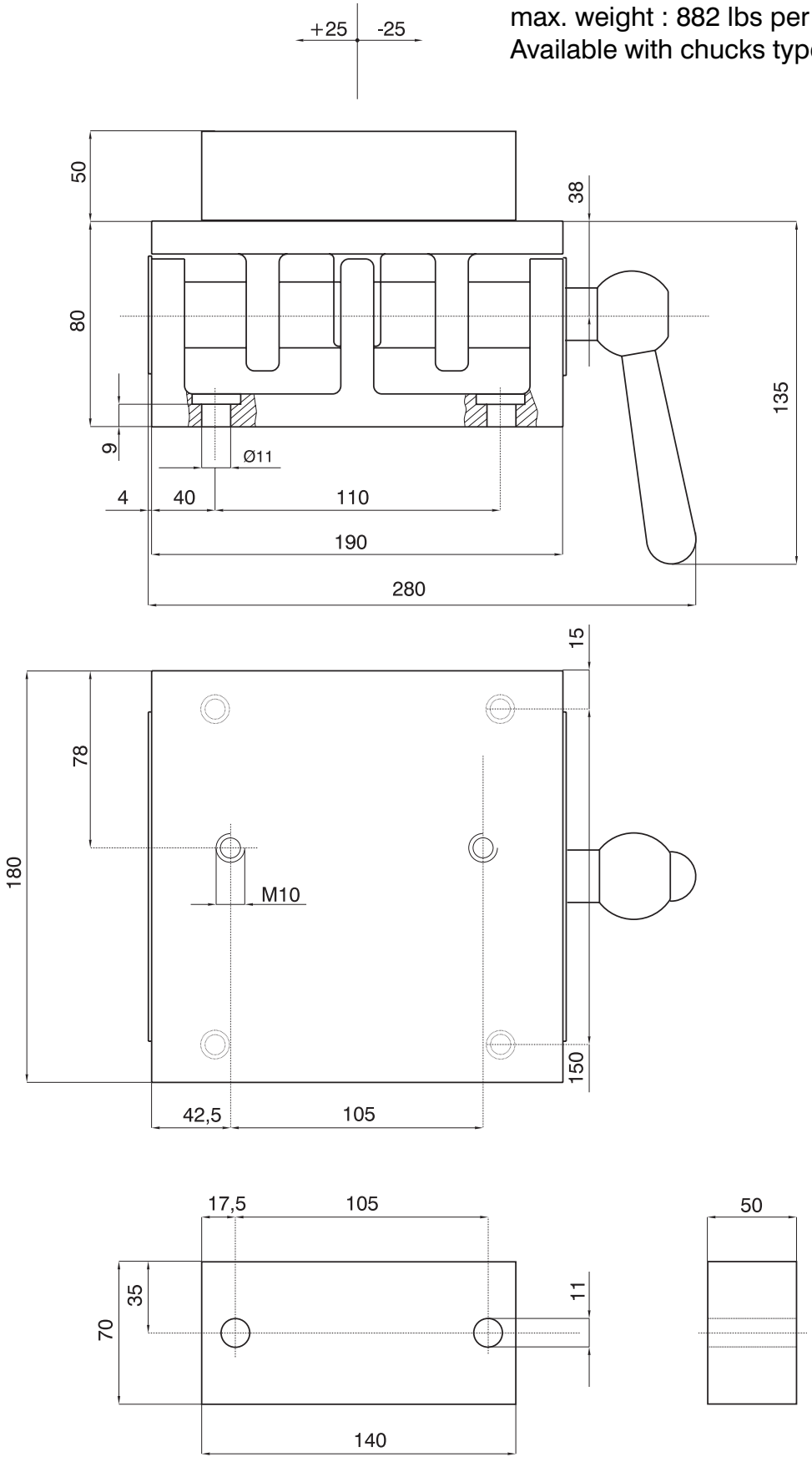
Changes reserved

Radial slide 22-30

Slide adjustment : axial 50 mm
max. weight : 882 lbs per unit
Available with chucks type 22-30



8.13

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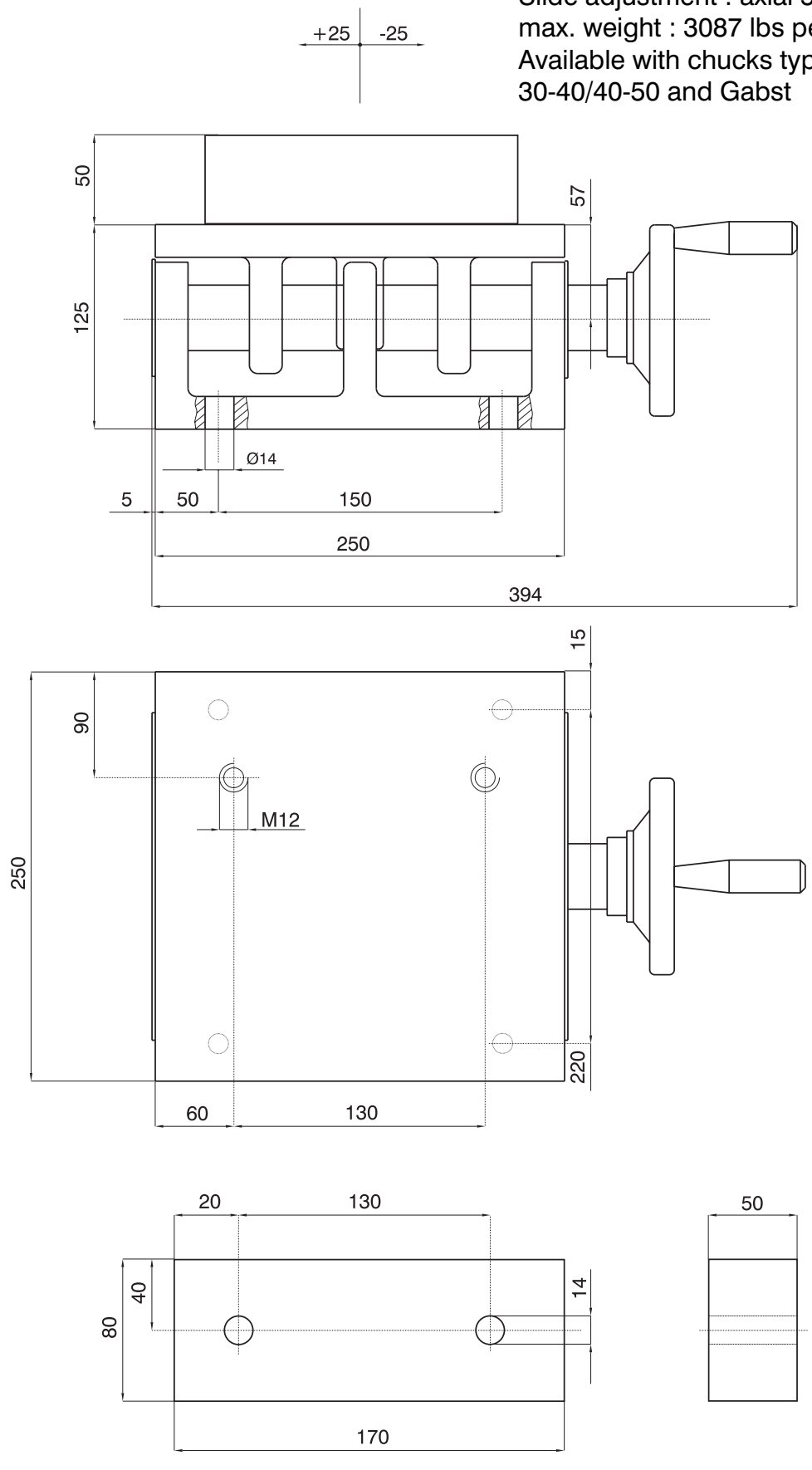
Changes reserved

Radial slide 30-40

Slide adjustment : axial 50 mm
max. weight : 3087 lbs per unit
Available with chucks type 22-30/
30-40/40-50 and Gabst



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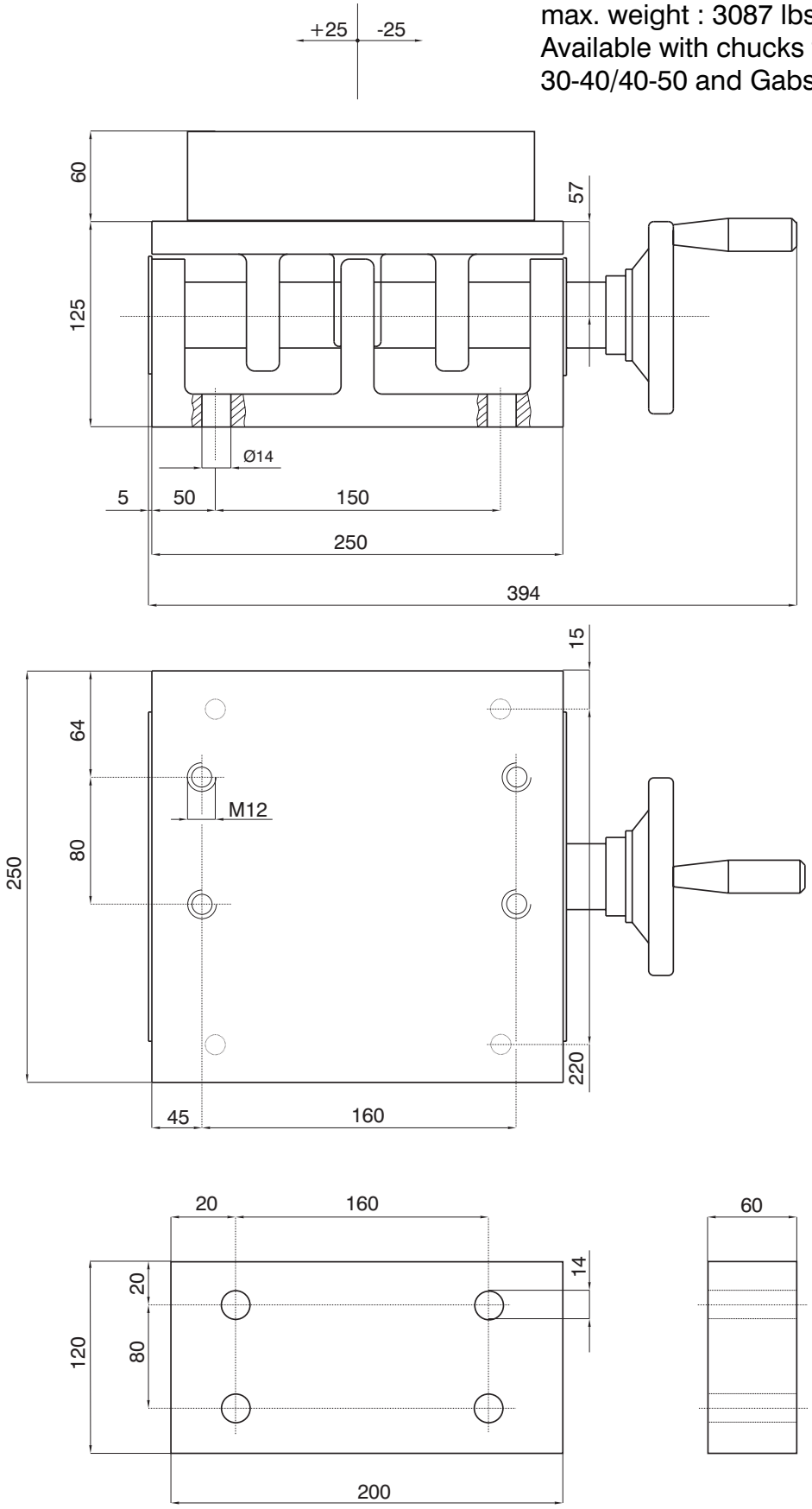
Changes reserved

Radial slide 40-50

Slide adjustment : axial 50 mm
max. weight : 3087 lbs per unit
Available with chucks type 22-30/ 30-40/40-50 and Gabst



8.15

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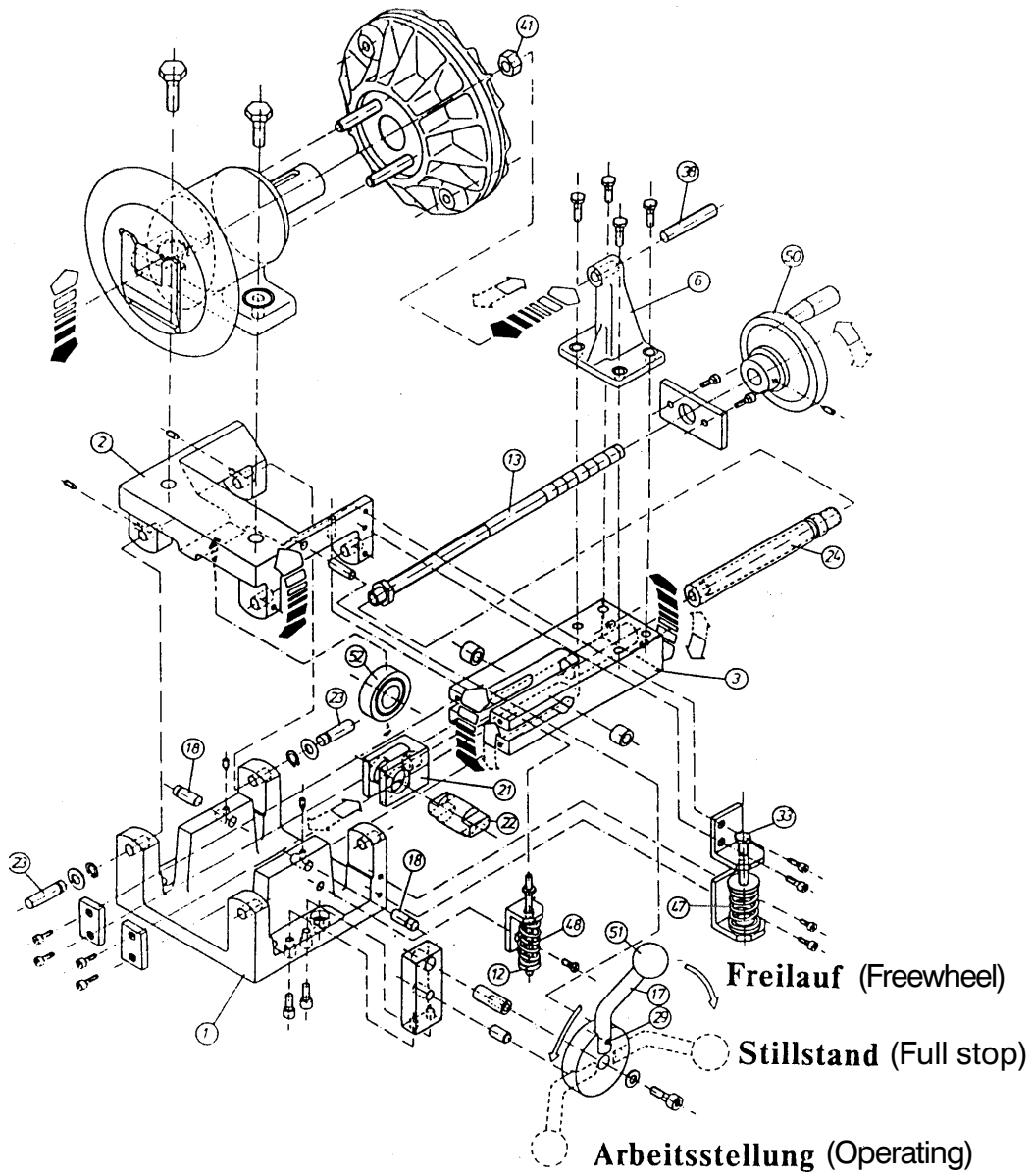
Changes reserved (a)

8.20 GABST (Tension control)



To be used with single disc brake manual see page 6.21

or

to be used with double disc brake manual see page 6.41

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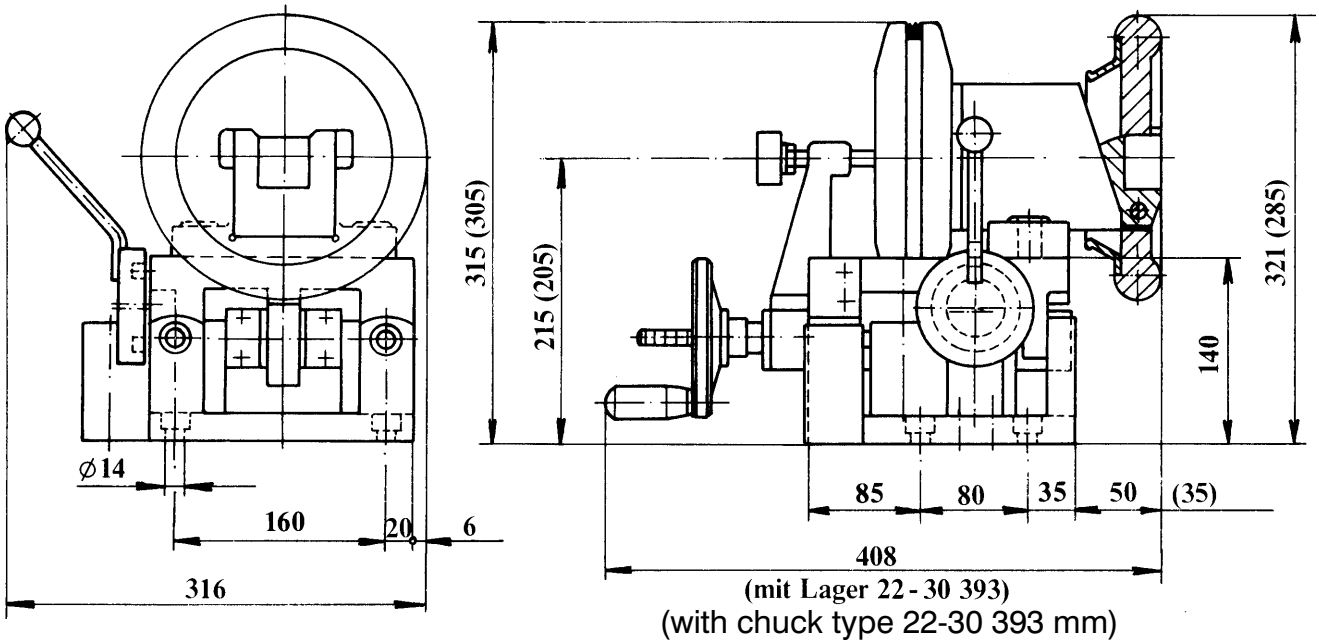
Changes reserved

GABST
(Weight dependent tension control)

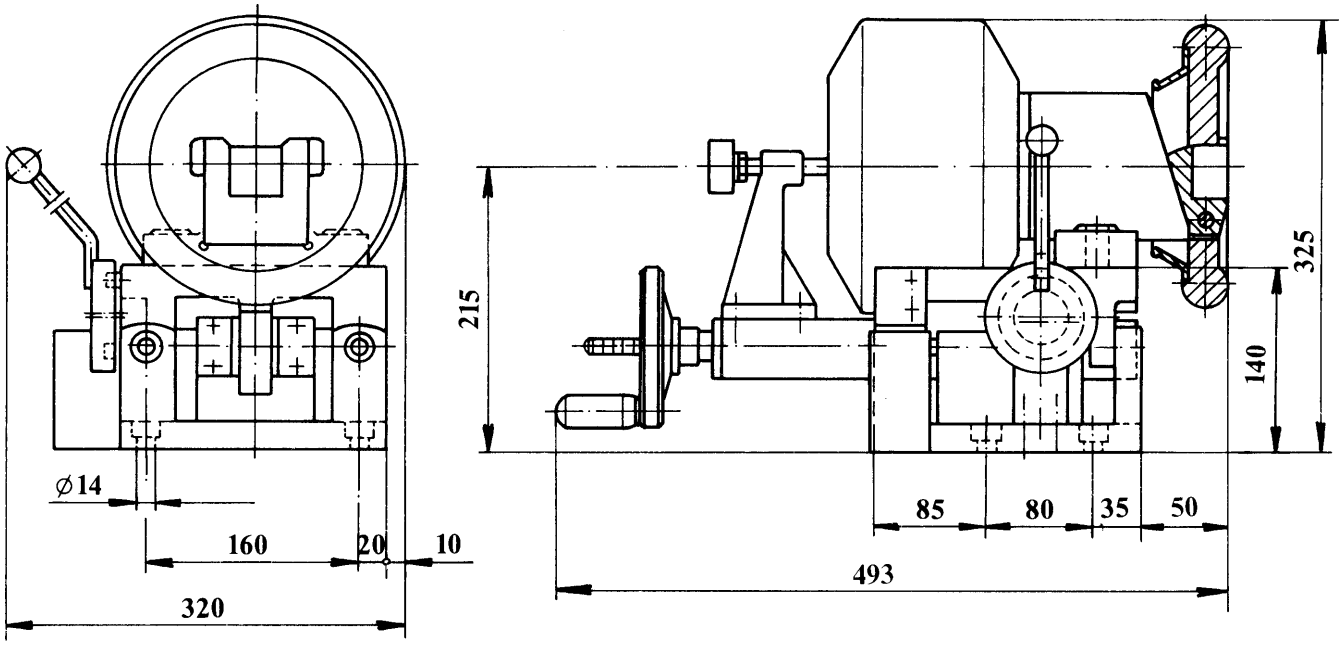
BOSCHERT

GABST with STW 30-40 (22-30) and ESB 0.15 kW



(with chuck type 22-30 393 mm)

GABST with STW 30-40 (22-30) and DSB 0.6 kW



Weight dependent tension control GABST

The GABST maintains constant tension mechanically during the entire unwind operation.

The GABST can be supplied with a single disc brake type ESB 30-40, that has a maximum performance of 0.2 Hp, or with a double disc brake type DSB 30-40 that has a maximum performance of 0.8 Hp.

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Changes reserved (a)

8.30 Operating principal (proportional) winder

The basic of the proportional winder system lies in the relationship of the axle housing and a fork shaped control lever, which are connected by a chain. The fork lever is hinged on a two way pivot, on the outer end the fork, in the aluminium housing. The axle housing which is handing on a chain is also hinged on a pivot. The principal thing is that the fulcrum is positioned (in such a way) that in the theoretical basic position 0 of the fork lever, is in line with the bearing of the fork lever.

When changing the position of the fork lever there will thereforce be no movement initially: The chuck remains in its position, which at the same time servers to check the exact start position.

After inserting the winding bar and starting process there will be a tension on the chuck which will create pressure towards the axle housing, depending on the position control lever, that will activate the brakes.

The axial force is divided into axial and radial component due to the tilted position or the chain. The axial component therefore determines the material tension at a heavier weight and the same positioning of the control lever will result in an increase of the axial pressure and keep the material tension constant.

The small axial way can equalize itself in the needle roller bearing on the back of the main axle. This movement allows the fixing of the entire unit to the previously described fulcrum of the axle housing and fork lever. Worn brake pads can be equalized by adjusting the screw (M12) in the centre of the back of the housing.

As further auxiliary stop for the 0-position of the fork lever, there is a bolt that limits the control lever at front. The axle housing is also equipped with a stop for the fork, that limits the play of the position.

The spring mechnism (part 15) supports, in connection with the axle housing, the heavier weight of the friction mechanism. It does this by moving axially on a flat bolt which is fixed in the aluminium casing. This keeps the weight difference at the pivoting point of axle housing in balance.

Another aid to adjust the basic position is a joint, milled area between the brake lever and the aluminium casting the alignment screw (M12).

It is important to mention that this friction winder can also be used as a friction brake. This can be achieved by using a blocking device on the chain outlet.

For use with very sensitive and fine material tensions the brake or friction action can be halved by reducing one brake pad.

This winding device is air cooled which is certainly another advantage its use.

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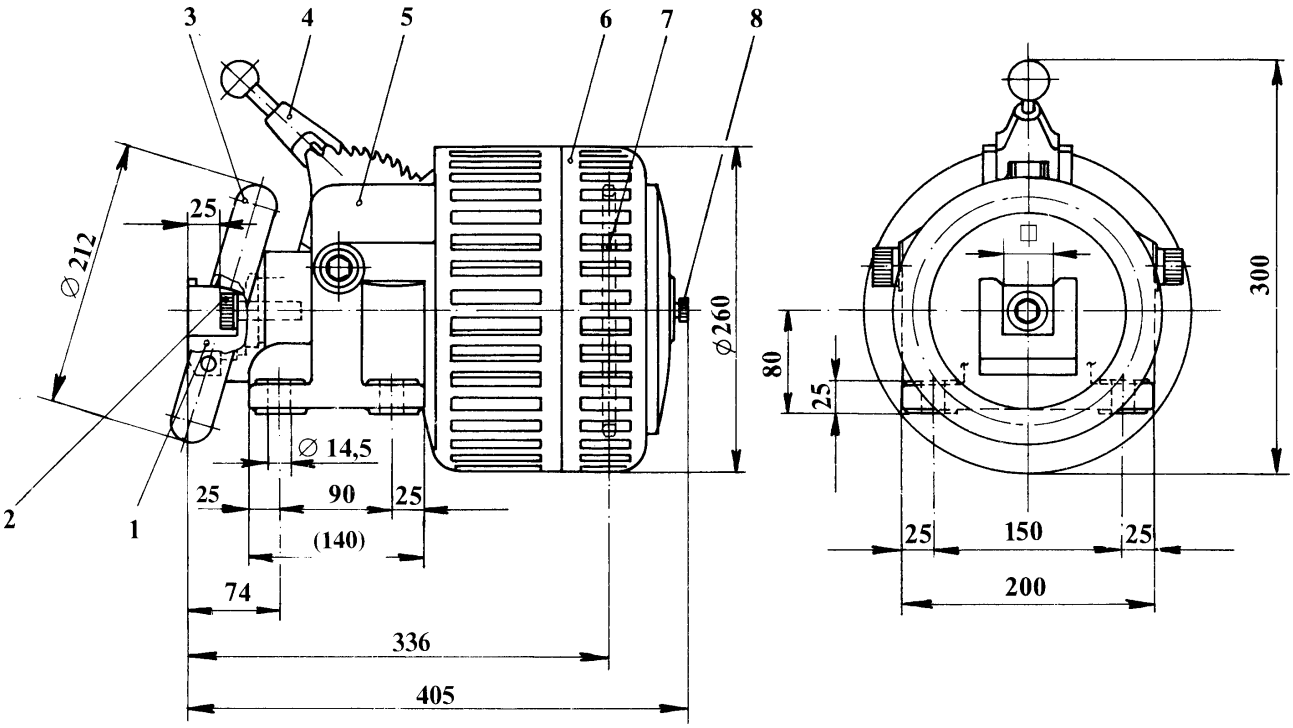
Proportional winder F59



1 Replaceable square seat
2 Allen screw DIN 6912
3 Self closing handwheel
4 Lever for clutch adjustment and tension release
5 Housing
6 Cover can be adjusted for desired chain entry (60° at each) side
7 Sprocket wheel T1/2“ 48 teeth (or T3/4“ 32 teeth)
8 Tension setting bolt DIN 6912

Can be operated mechanically as a brake or clutch.
For constant tension control.

Can be used in combination with other chucks:
The proportional winder automatically provides constant winding and unwinding tension mechanically.
Robust mechanical construction for simple operation, constant winding tension, constant braking tension, for shaft dimensions of 0.9843“ - 17.5197“ (25 - 445 mm).
Data for chuck see type 30-40.
Data for friction see HRU 0.5625 h.p.
Operation principal see page 8.30.

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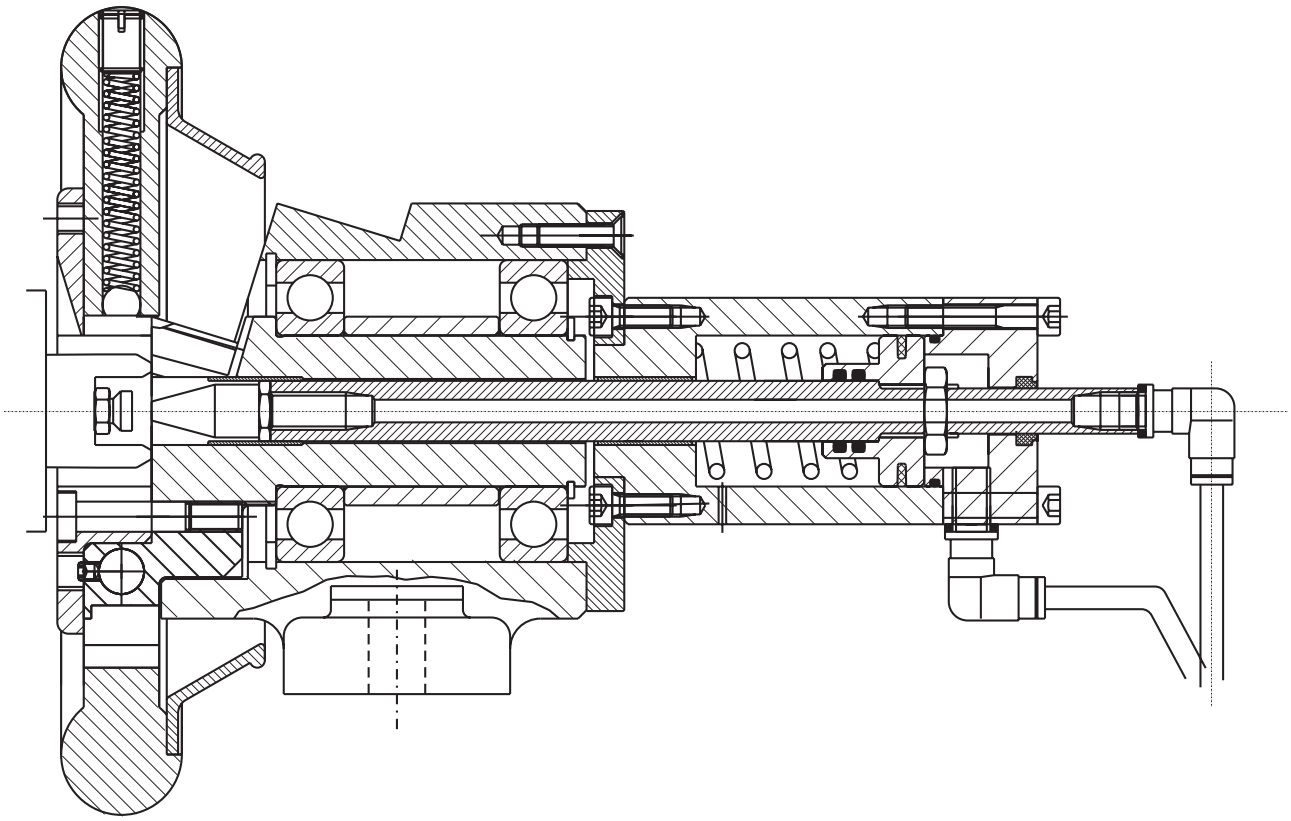
Changes reserved

8.40 Boschert-Chuck with automatic airshaft inflation



This type of Boschert-Chuck is used to pressurize air shafts automatically.

The air shaft has to be engaged or released during loading. It is not necessary to stress or release the air shaft during operation.

Only available in VT-style from size 30-40 upwards.

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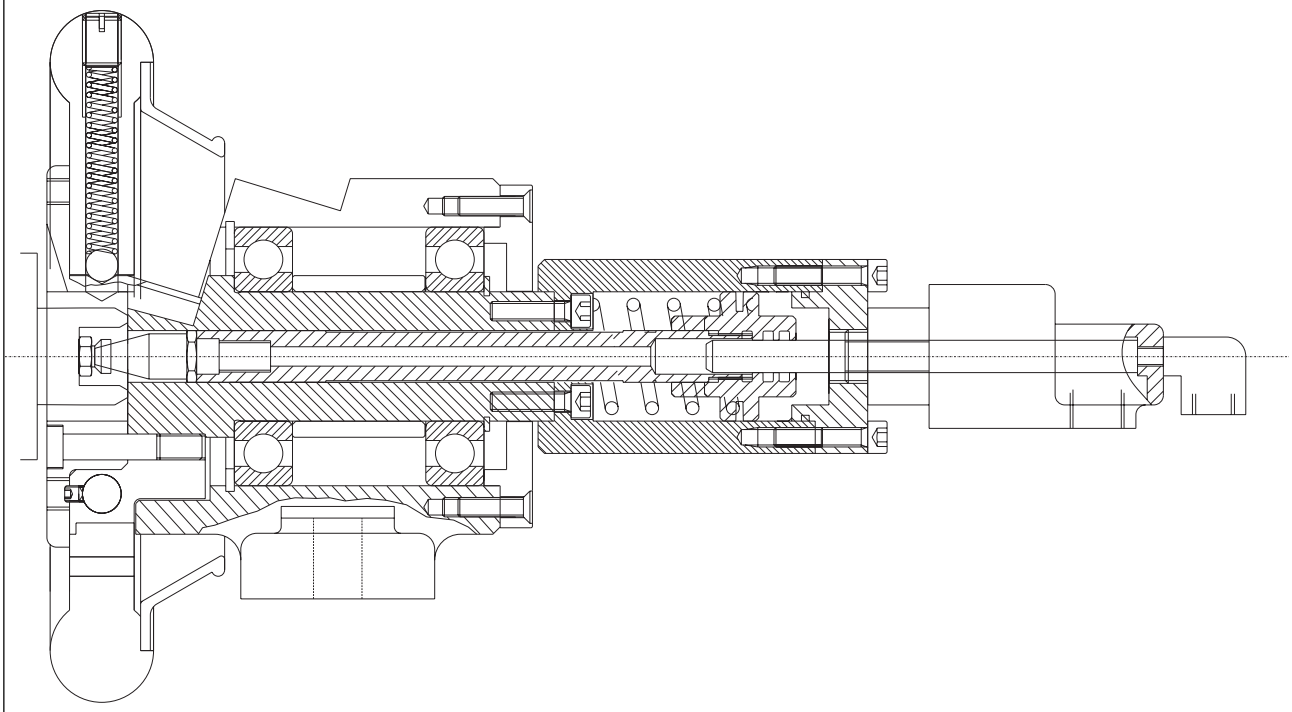
(a) Changes reserved

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-style from size 30-40 upwards.

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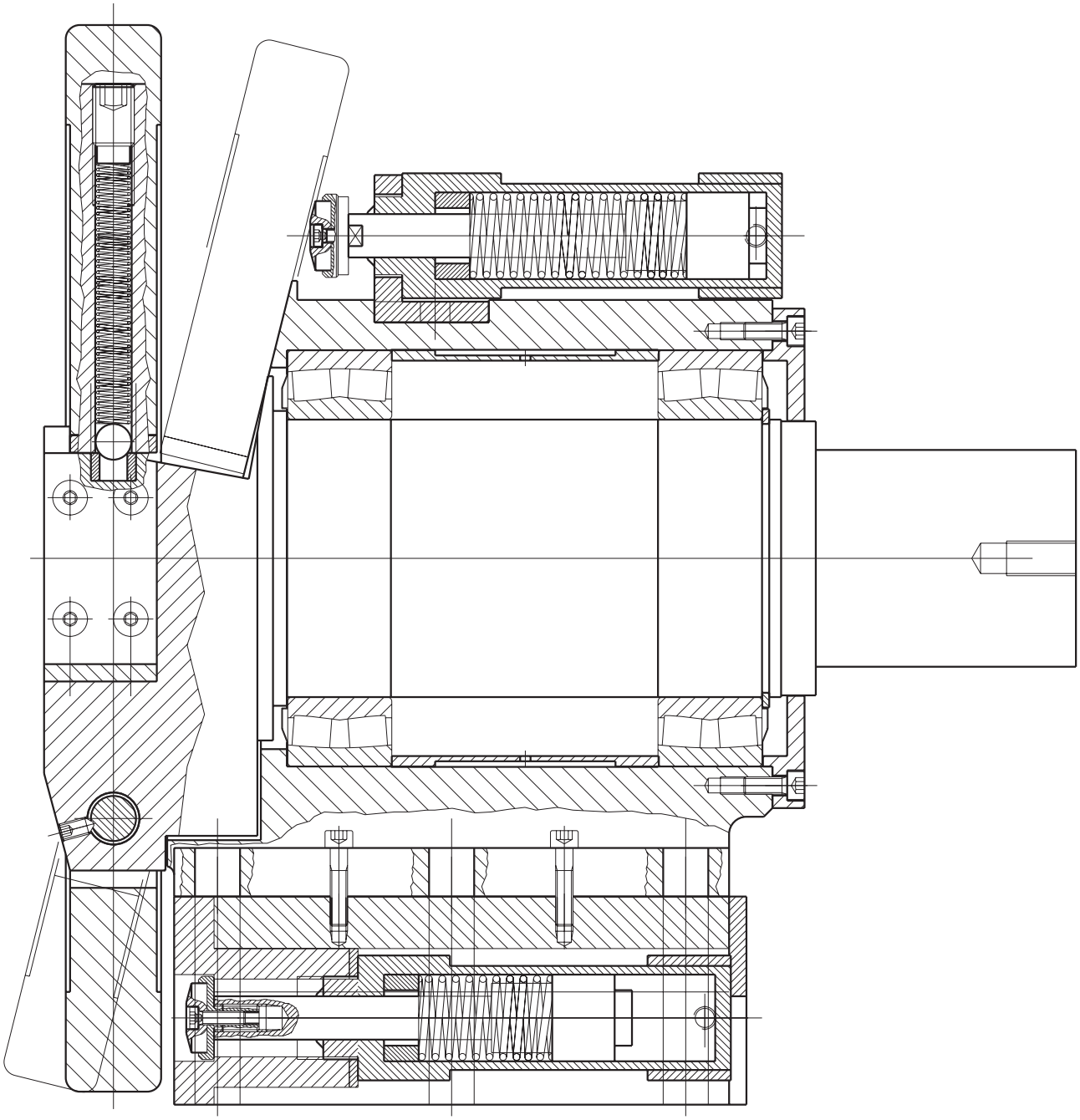
Changes reserved (a)

Chuck 120-180 with automatic hydraulic opening and closing



STW 120-180 hydraulic open / close

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.

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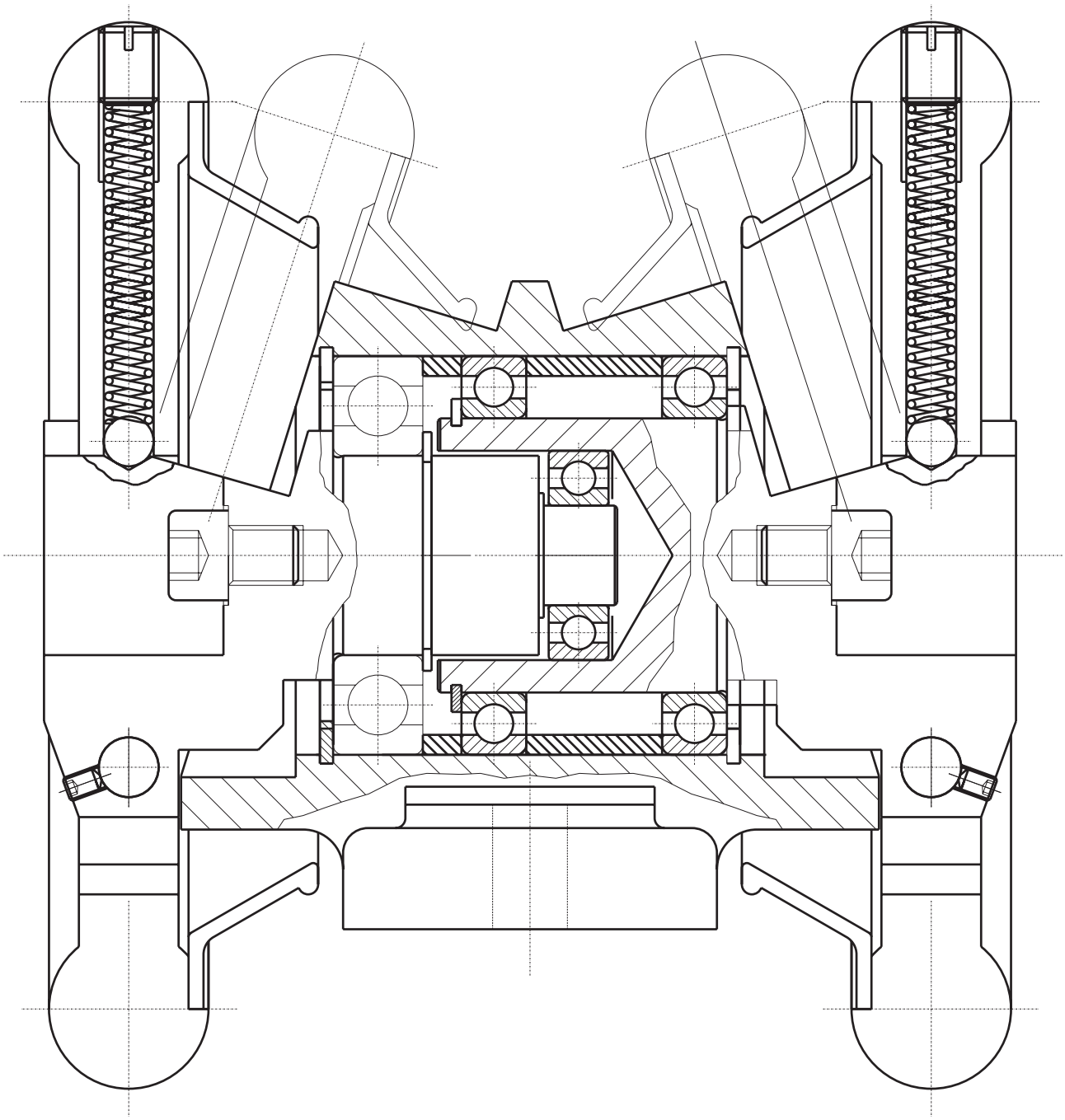
Changes reserved

Twin STO Chucks



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.

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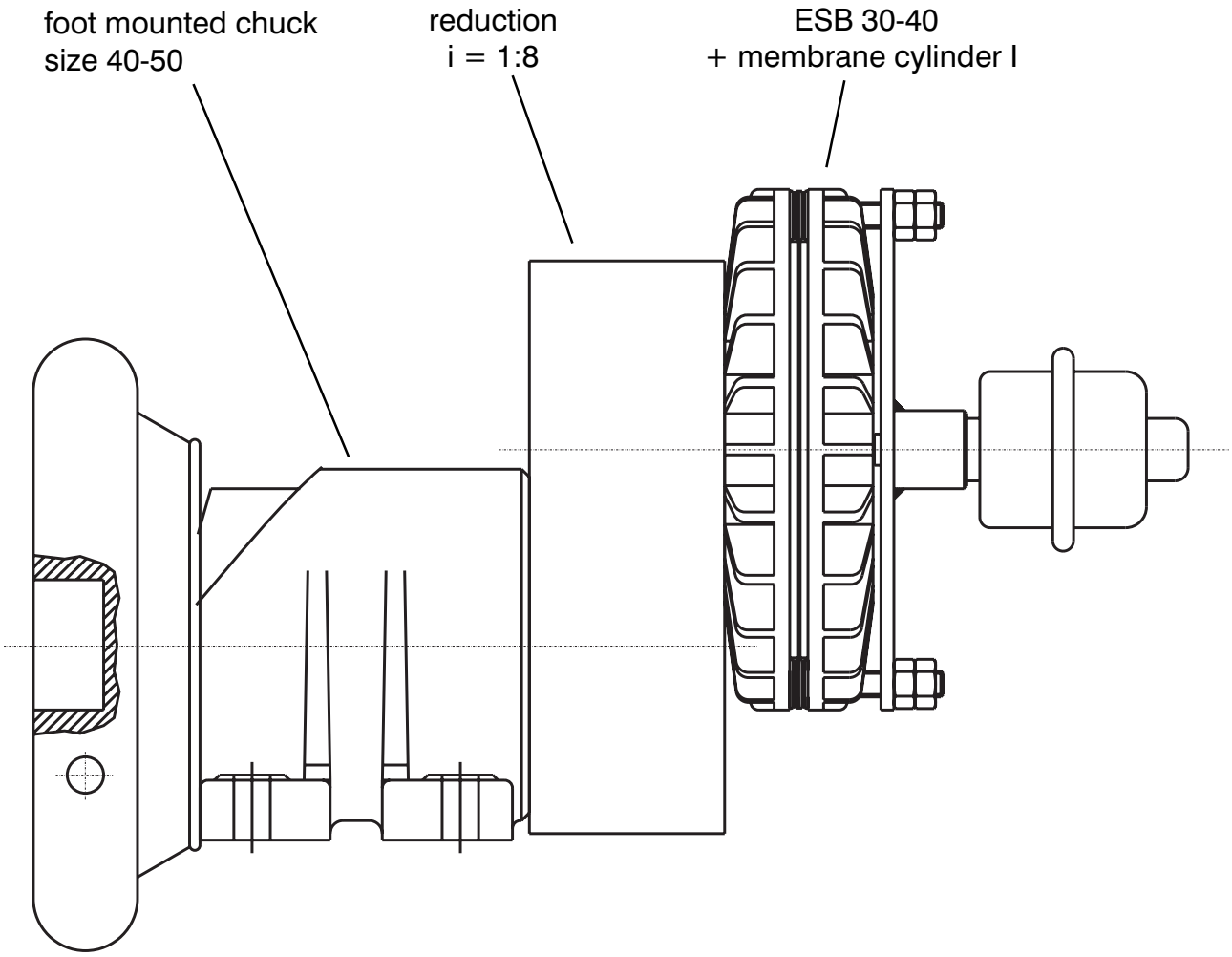
Changes reserved

Chuck with ESB brake and intermediate gearbox



Reduction brake for extremly low speed

problem:
Unwinding with a speed less then 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 sqeezing noises and you have better control of the brake.

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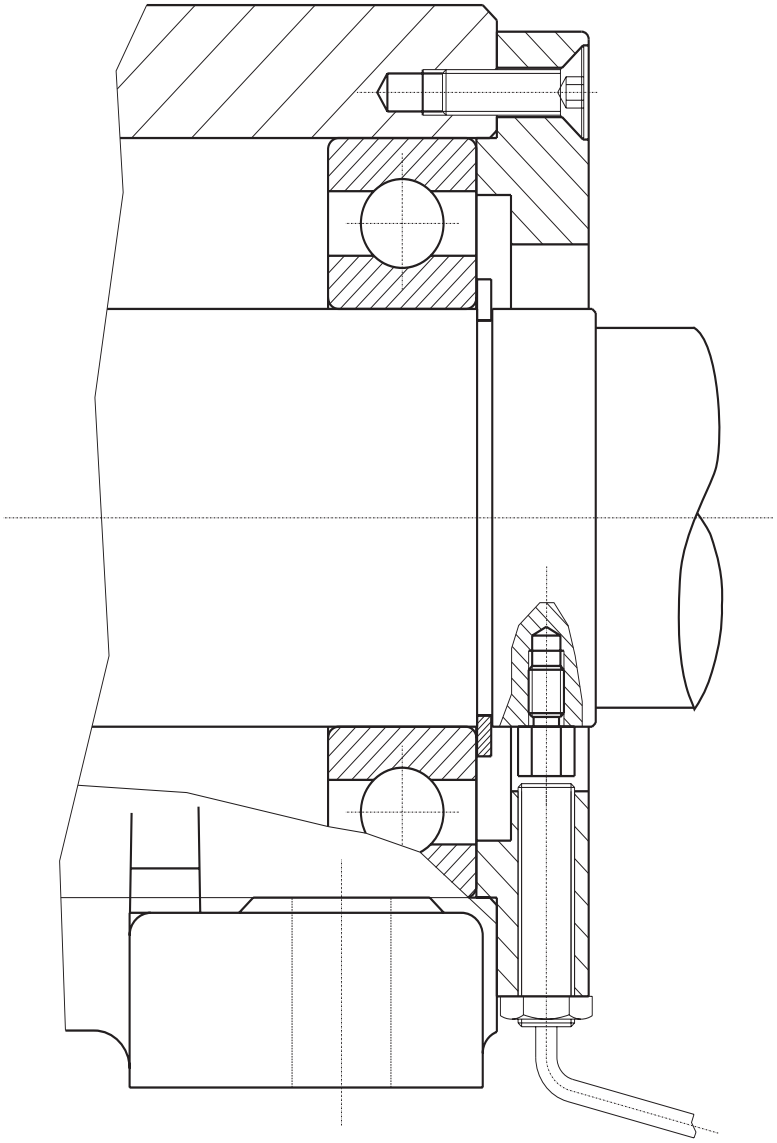
Chuck opening positioning recognition



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 electonically.

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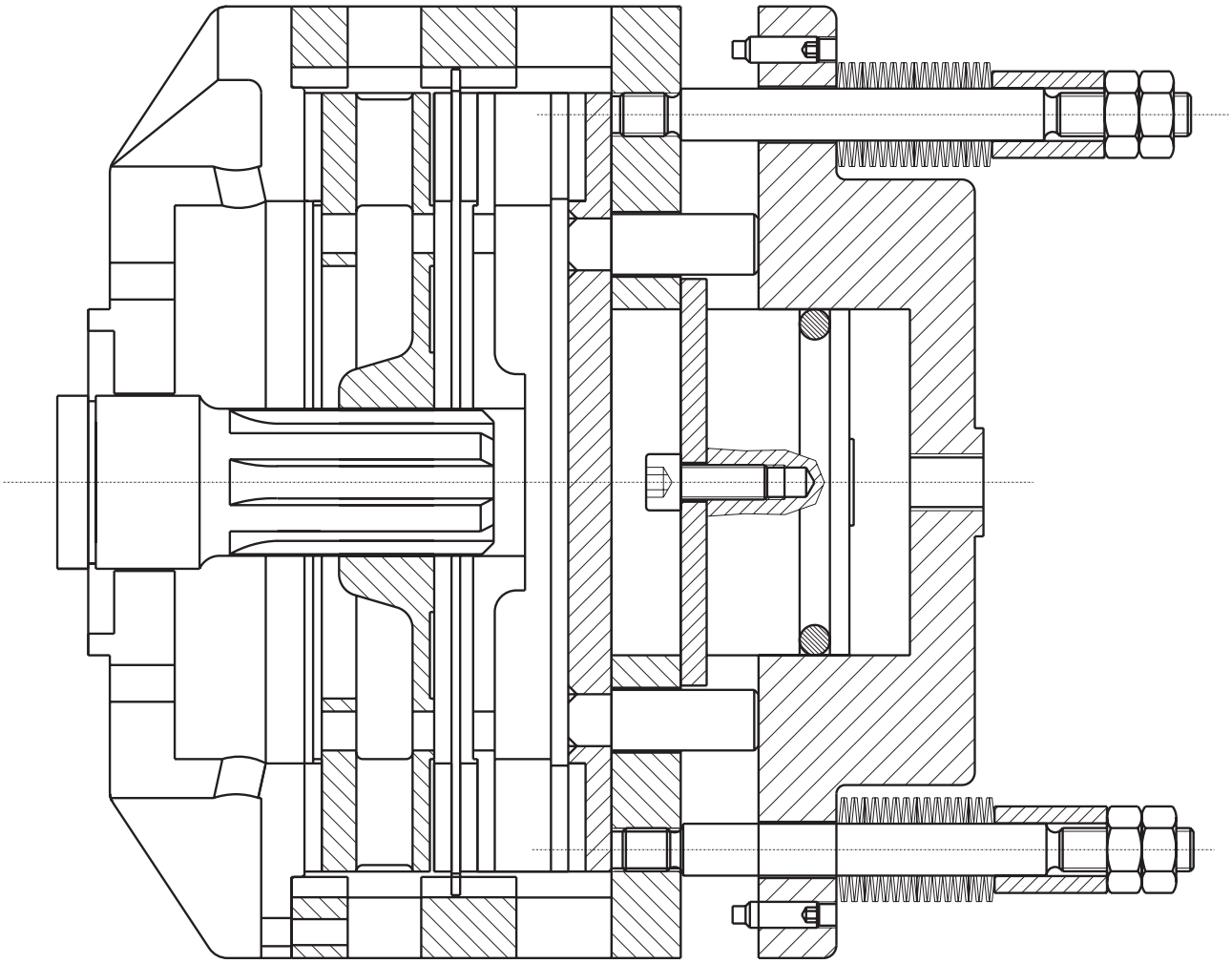
Spring-loaded brake



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.

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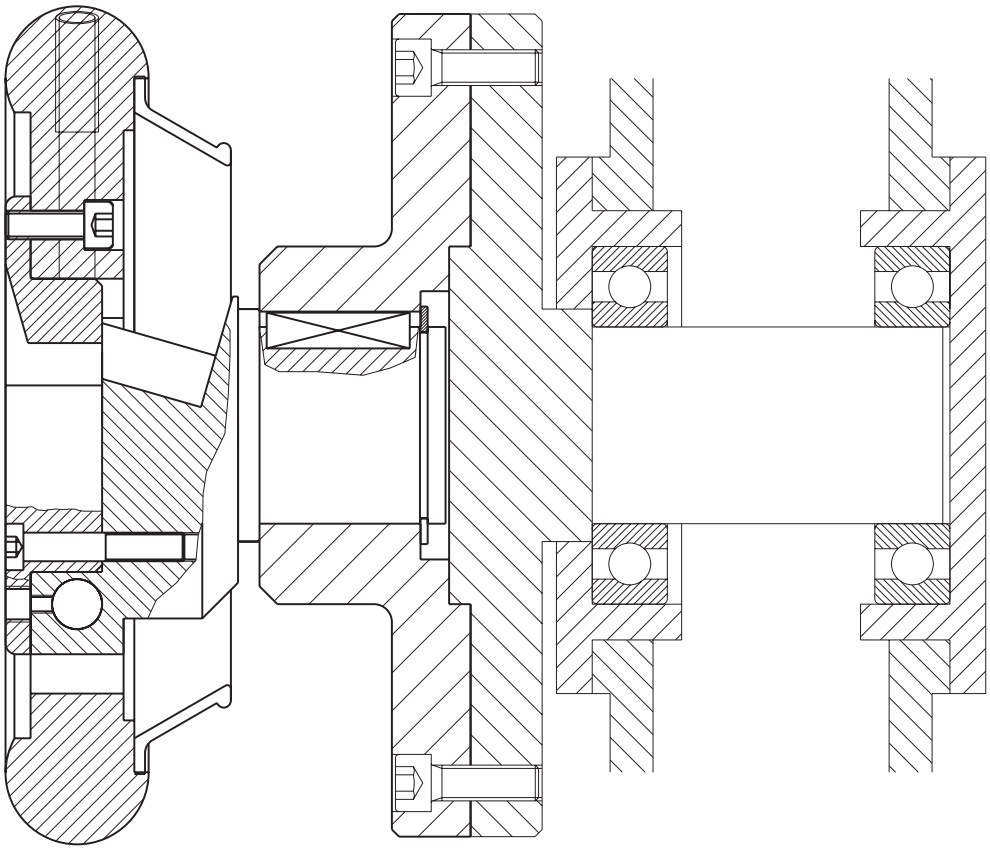
Installation of Boschert-Chucks in existing winding unit



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.

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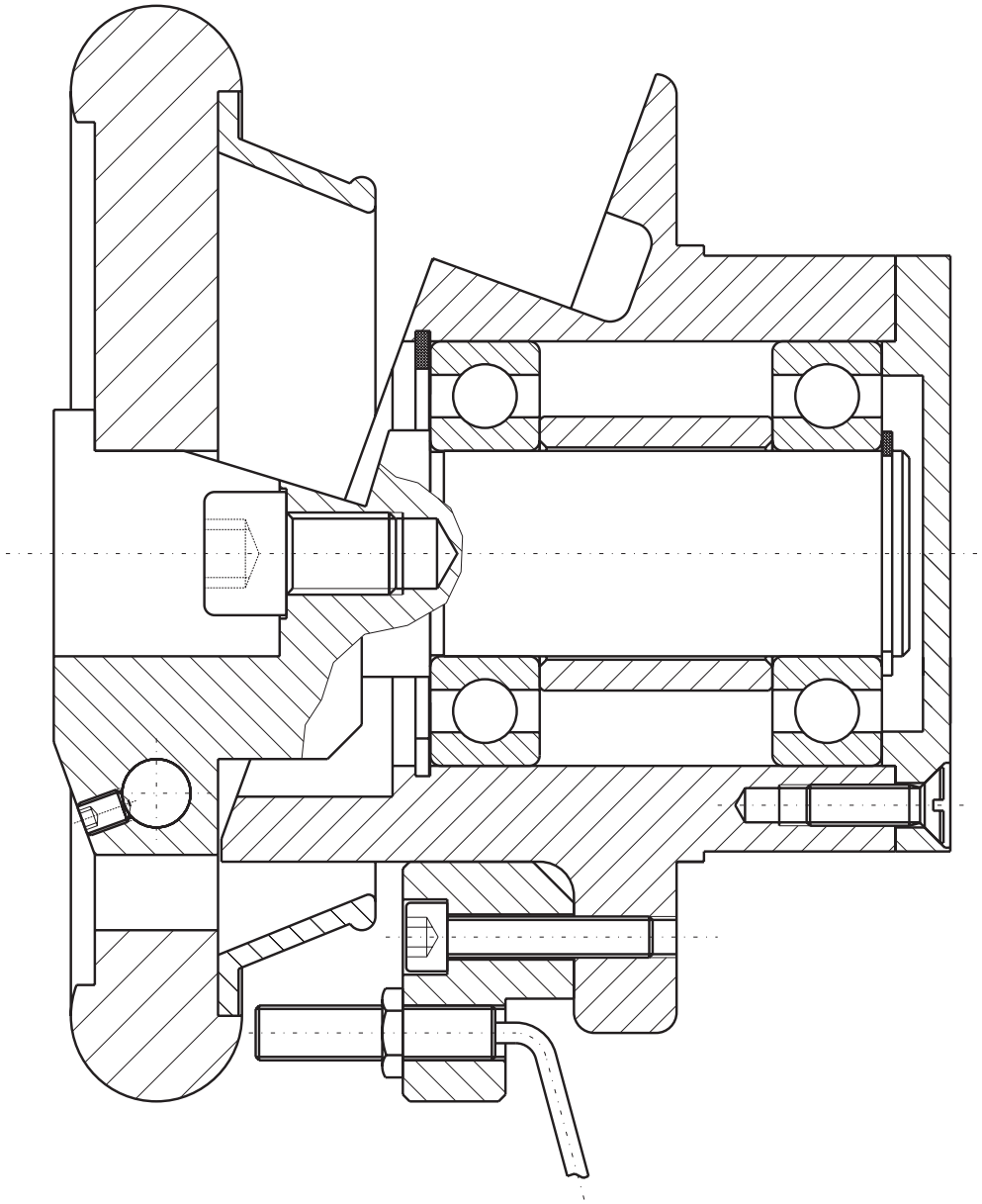
Chuck with handwheel open/close recognition



This electrical sensor gives you even more safety.

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9.00 Order form page 1

BOSCHERT

Company	: _____	**to**	: Fa. Boschert
from	: _____	**attn.**	: _____
Tel. ext.	: _____	**Fax-No.**	: 07621 /55184
Fax-No.	: _____		
Project	: _____	**Date**	: _____

Type: Boschert-Chuck

14-20	max. 330 lbs	☐ 14-20	↻ 29 ft/lb	_____	piece
19-25	max. 880 lbs	☐ 19-20	↻ 87 ft/lb	_____	piece
22-30	max. 1760 lbs	☐ 22-30	↻ 130 ft/lb	_____	piece
30-40	max. 3530lbs	☐ 30-40	↻ 250 ft/lb	_____	piece
40-50	max. 6170 lbs	☐ 40-50	↻ 800 ft/lb	_____	piece
50-80	max. 15430 lbs	☐ 50-80	↻ 1700 ft/lb	_____	piece
80-120	max. 26460 lbs	☐ 80-120	↻ 7230 ft/lb	_____	piece
120-180	max. 48500 lbs	☐ 120-180	↻ 14470 ft/lb	_____	piece
170-200	max. 70550 lbs	☐ 170-200	↻ 18090 ft/lb	_____	piece
170-230	max. 141090 lbs	☐ 170-230	↻ 29660 ft/lb	_____	piece

Type: Boschert-Sliding-Chuck

Adjustment: ☐ 50 mm ☐ 100 mm (only 30-40/40-50)

☐ driver pin ☐ driver disc

22-30	max. 1760 lbs	☐ 22-30	↻ 130 ft/lb	_____	piece
30-40	max. 3090 lbs	☐ 30-40	↻ 220 ft/lb	_____	piece
40-50	max. 6170 lbs	☐ 40-50	↻ 800 ft/lb	_____	piece

Type: Boschert A-Chuck

A40	max. 3530 lbs	☐ 30-40	↻ 250 ft/lb	_____	piece
A50	max. 6170 lbs	☐ 40-50	↻ 800 ft/lb	_____	piece
A80	max. 15430 lbs	☐ 50-80	↻ 1700 ft/lb	_____	piece

Type: Boschert P-Chuck

P40	max. 3530 lbs	☐ 30-40	↻ 250 ft/lb	_____	piece
P50	max. 6170 lbs	☐ 40-50	↻ 800 ft/lb	_____	piece

Model:

☐ foot mounted chuck ☐ flange mounted chuck
☐ without shaft end ☐ with shaft end

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Order form
page 2

Square bar/-form:

☐ Boschert-C-Chuck square bar _____ mm

☐ Boschert VT-Chuck

☐ VT1 insert square bar _____ mm
☐ VT2 insert square bar _____ mm
☐ VT6 insert
☐ VT7 insert

Square bar hardened:

☐ 52 HRC ☐ 58 HRC ☐ special HRC _____

Options:

☐ 90° mounting left ☐ 90° mounting right

☐ extended opening angle ± 30°

☐ Handwheel lock type I right (only up to chuck 30-40) ☐ Handwheel lock type I left

☐ Handwheel lock type II right (only up to chuck 50-80) ☐ Handwheel lock type II left

Brakes:

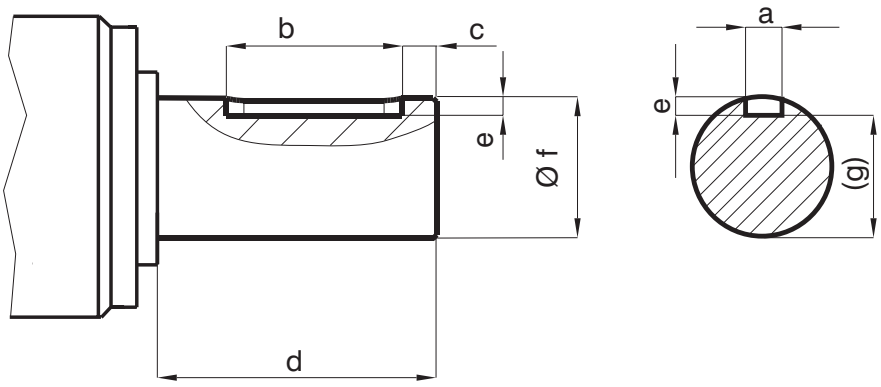
☐ ESB ☐ ESB i ☐ DSB ☐ Performance

Clutches:

☐ RU ☐ HRU 0.75 kW ☐ HRU 1.5 kW ☐ HRU 3kW

Special journal shaft end:

a P9 : _____ inch
b : _____ inch
c : _____ inch
d : _____ inch
e : _____ inch
Ø f k6 : _____ inch
(g) : _____ inch



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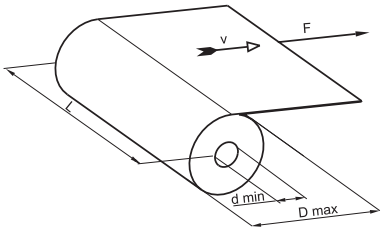
9.02 Form for brake calculation

BOSCHERT

Company	: _____	**to**	: Fa. Boschert
Name	: _____	**attn.**	: _____
phone ext.	: _____	**Fax. No.**	: 07621 /55184
Fax. No.	: _____		
project	: _____		
date	: _____		



max. roll-diameter Dmax	: _____	m
min. roll-diameter dmin	: _____	m
speed v	: _____	m/min^{-1}
tension F	: _____	N
roll width L	: _____	cm

material-specific factor:

paper	30-50 N m²/g cm	Polyamid	70-150 n/µm cm	PVC stretch	4 n/µm cm
cardboard	30-50 N m²/g cm	Polyester	35 n/µm cm	PVC soft	15-30 n/µm cm
		Polyethylen HDPE	17 n/µm cm	PVC hard	40-70 n/µm cm
Aluminium	40-100 n/µm cm	Polyethylen LDPE	7 n/µm cm		

How to determine the tension

material: paper and cardboard

$$\text{tension F} = \frac{\text{roll width L [cm] x spec. gravity [g/m²] x material-specific factor [N m²/g cm]}}{1000} = \text{N}$$

tension F = ____ [cm] x ____ [g/m²] x ____ [N m²/g cm] / 1000 = ____ N

example: paper 80 N m²/g cm
L = 100 cm

$$\text{tension F} = \frac{\text{100 cm x 80 N m²/g cm x 35 [N m²/g cm]}}{1000} = 280\ \text{N}$$

material: foil

$$\text{tension F} = \frac{\text{roll width L [cm] x thickness [µm] x material-specific factor [N m²/g cm]}}{1000} = \text{N}$$

tension F = ____ [cm] x ____ [µm] x ____ [N m²/g cm] / 1000 = ____ N

example: Polyethylen HDPE 17 n/µm cm
L = 200 cm

$$\text{tension F} = \frac{\text{200 cm x 10 µm x 17 [N m²/g cm]}}{1000} = 34\ \text{N}$$

specific tension known:

tension F = specific tension [N/cm] x roll width L [cm] = N

tension F = ____ [N/cm] x ____ [cm] = ____ N

example: specific tension = 2 N/cm
L = 100 cm

tension F = 2 N/cm x 100 cm = 280 N

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Form for brake calculation

BOSCHERT

calculation of max. brake torque: M max

$$M\,max = tension\ F\ [N] \times \frac{max.\ roll\ width\ Dmax\ [m]}{2} = Nm$$

$$M\,max = \square\ [N] \times \frac{\square\ [m]}{2} = \square\ Nm$$

calculation of min. brake torque: M min

$$M\,max = tension\ F\ [N] \times \frac{min\ roll\ width\ Dmin\ [m]}{2} = Nm$$

$$M\,max = \square\ [N] \times \frac{\square\ [m]}{2} = \square\ Nm$$

calculation of the speed

$$n^{-1}\,max = \frac{V\ [m/min^{-1}]}{Dmax\ [m] \times 3{,}1415} = \frac{\square\ [m/min^{-1}]}{\square\ [m] \times 3{,}1415} = \square\ min^{-1}$$

$$n^{-1}\,min = \frac{V\ [m/min^{-1}]}{dmin\ [m] \times 3{,}1415} = \frac{\square\ [m/min^{-1}]}{\square\ [m] \times 3{,}1415} = \square\ min^{-1}$$

calculation of brake performance: M max

$$P_1 = \frac{M\,max\ [Nm] \times n^{-1}\,min\ [min^{-1}]}{9550}$$

$$P_1 = \frac{\square\ [Nm] \times \square\ [min^{-1}]}{9550} = \square\ kW$$

calculation of brake performance: M min

$$P_2 = \frac{M\,min\ [Nm] \times n^{-1}\,max\ [min^{-1}]}{9550}$$

$$P_2 = \frac{\square\ [Nm] \times \square\ [min^{-1}]}{9550} = \square\ kW$$

result:

brake torque max. M max	=	Nm
brake torque min. M min	=	Nm
speed max. n max	=	min^{-1}
speed min. n min	=	min^{-1}
performance on brake torque max. P_1	=	kW
performance on brake torque min. P_2	=	kW

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Form for brake calculation

BOSCHERT

view of brake torque

ESB Mini	30
ESB [19-25] - [30-40]	40
ESB [19-25] - [30-40] membrane II	90
ESB [40-50]	50
ESB [40-50] membrane II	110
ESB i [30-40] - [40-50]	50
ESB i [30-40] - [40-50] membrane II	110
DSB	200
DSB membrane II	440
Performance 1500/300	300
Performance 1500/500	500
Performance 3000/300	300
Performance 3000/500	500

specification in Nm

view of brake performance

ESB Mini	0,1
ESB [19-25] - [30-40]	0,15
ESB [40-50]	0,2
ESB i	0,4
DSB	0,6
Performance 1500	1,5
Performance 3000	3

specification in kW

view of automatic control

automatic control	control of brake
elementar control	manual
normal control	pneumatic
sensitive control	membrane cylinder

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