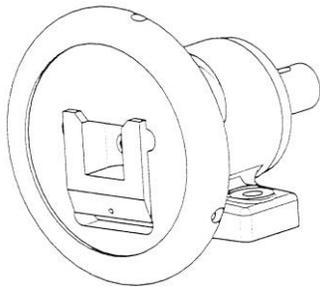
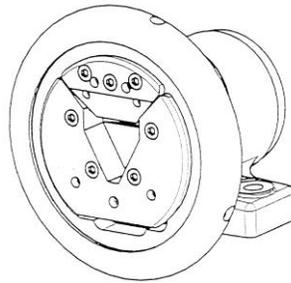


Chuck types

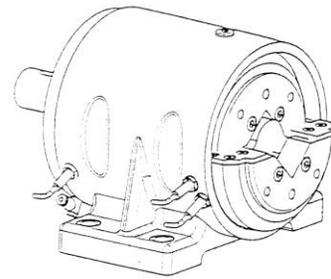
C-chuck



V-chuck



P-chuck



- The Boschert C-Chuck is the classic version of the safety chuck.
- The Boschert VT-Chuck is the classic version with VT inserts.
- The Boschert P-Chuck is the pneumatic version.
- Pedestal mounted chucks are mounted on non-deflecting horizontal surfaces that are parallel to the winding equipment.
- Flange mounted chucks are mounted on parallel vertical surfaces that are perpendicular to the winding equipment.

Models

Stationary chuck

- FLW—flange mounted with shaft end
- FLO—flange mounted without shaft end
- STW—pedestal mounted with shaft end
- STO—pedestal mounted without shaft end

Sliding chuck

- SKW-F—flange mounted with shaft end
- SKO-F—flange mounted without shaft end
- SKW—pedestal mounted with shaft end
- SKO— pedestal mounted without shaft end

Sizes

Stationary and sliding

- 14-20
- 19-25
- 22-30
- 30-40
- 40-50
- 50-80
- 80-120

Pneumatic

- P40
- P50

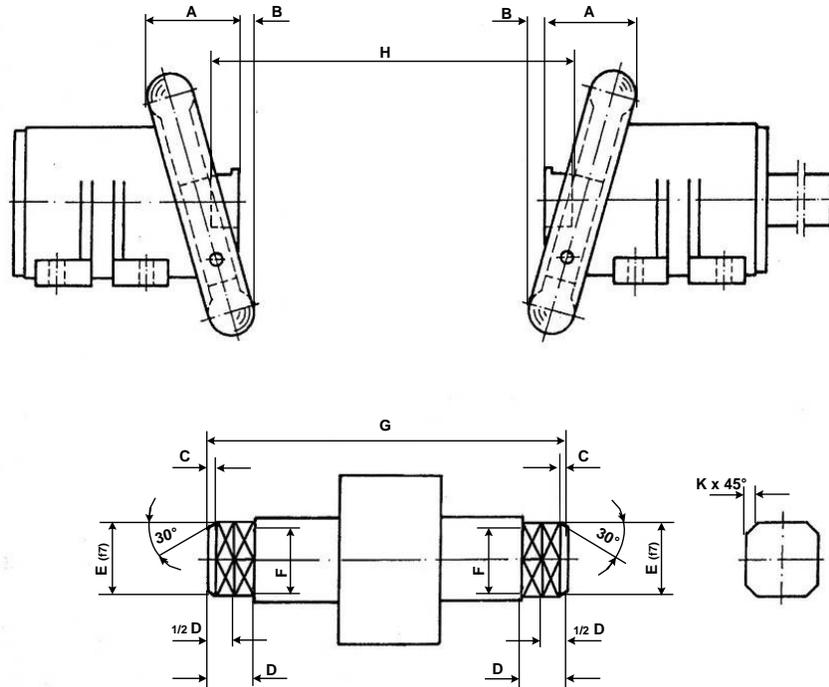
INSTALLATION

Ensure Correct Shaft and Journal Size



Due to close tolerances and the exact manufacture of these chucks, it is important to machine the shafts and journals to the dimensions below.

The recommended clearance between the back of the chuck socket and the end of the shaft journal is 0.5 mm (0.02") total—0.25 mm (0.01") each side. (See in the chart below, H-G)



METRIC									
Size	A	B	C	D	E (f7)	E-F	1/2 D	H-G	K
14-20	38	8	3	15	14-20	0.1	7.5	0.5	1
19-25	54	9	3	24	19-25	0.1	12	0.5	1
22-30	61	8	4	28	22-30	0.15	14	0.5	1
30-40	73	13	5	30	30-40	0.2	15	0.5	1.5
40-50	81	13	5	32	40-50	0.3	16	0.5	2
50-80	106	16	6	40	50-80	0.4	20	0.5	3
80-120	145	18	16	60	80-120	0.5	30	0.5	4

ENGLISH									
Size	A	B	C	D	E (f7)	E-F	1/2 D	H-G	K
14-20	1.496	0.315	0.118	0.591	0.551-0.787	0.004	0.295	0.020	0.039
19-25	2.126	0.354	0.118	0.945	0.748-0.984	0.004	0.472	0.020	0.039
22-30	2.402	0.315	0.157	1.102	0.866-1.181	0.006	0.551	0.020	0.039
30-40	2.874	0.512	0.197	1.181	1.181-1.575	0.008	0.591	0.020	0.059
40-50	3.189	0.512	0.197	1.260	1.575-1.969	0.012	0.630	0.020	0.079
50-80	4.173	0.630	0.236	1.575	1.969-3.150	0.016	0.787	0.020	0.118
80-120	5.709	0.709	0.630	2.362	3.150-4.724	0.020	1.181	0.020	0.157

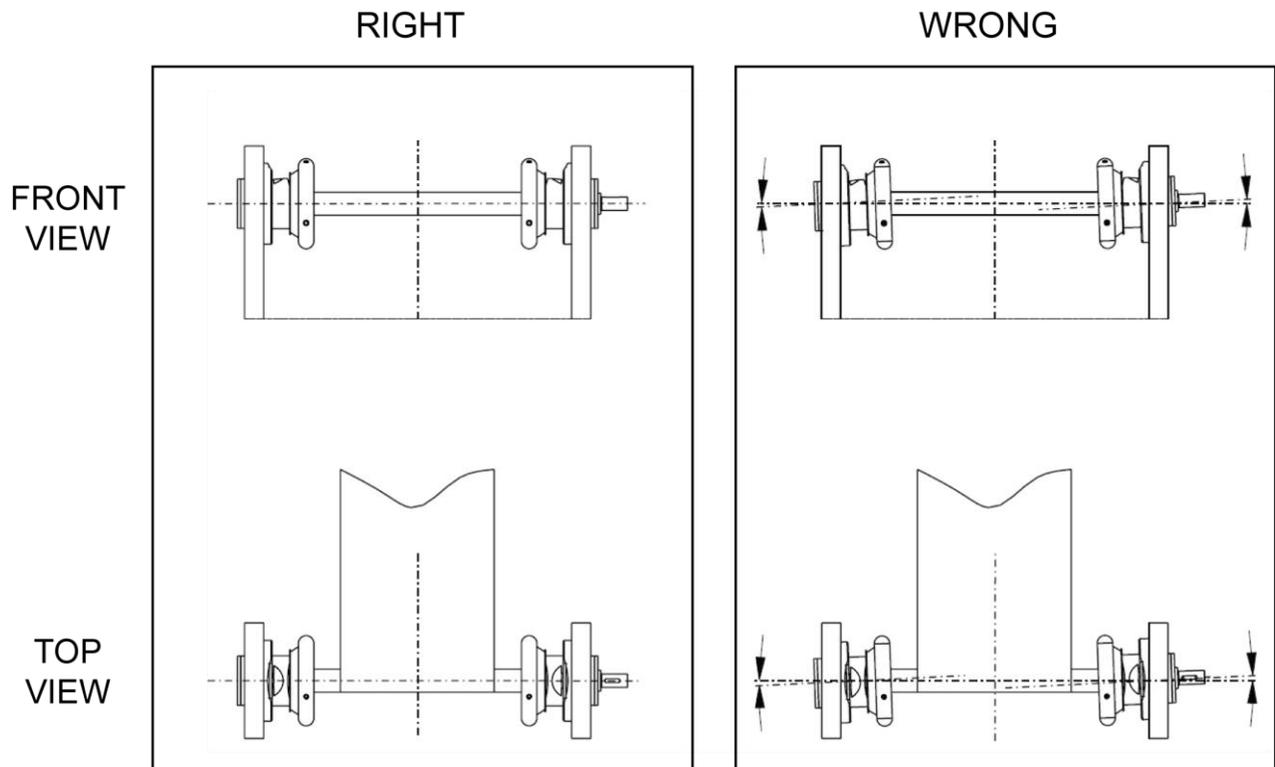
INSTALLATION

Align Chucks



Misalignment of chucks can substantially reduce the usable life of this product. Ensure the two chucks are aligned - in both axes - **within 0.3°**.

See illustration below.



Loaded Roll Support



Deflection of the mounting frame or the shaft under load can substantially reduce the usable life of this product.

Make sure that the machine frame is sturdy enough to maintain a true horizontal centerline for rotation.

Ensure that the shaft is designed to support all wound roll configurations with minimum deflection.

Before Each Operation

The Boschert Safety Chuck is designed to operate at optimal levels when all fasteners are installed and tightened to recommended torque values. Before operation, check for damaged or missing fasteners. If any fasteners are damaged or missing, please call Maxcess Customer Service. Your regional office location is listed on the back page of this publication.

Boschert recommends closing the handwheel manually before operating to ensure positive locking during operation. The automatic closing feature is a safety backup if chucks are mistakenly left open. Always close chucks manually to avoid premature wear on chuck parts.

- Before operating the chucks for the first time, make sure that the handwheels close easily.
- After closing the handwheels, it must be easy to turn the winding bar in any position. Boschert requires handwheel locks for chucks operating in a turret winder.
- To ensure the undriven VT6 chuck will lock automatically, the radial driver option is required.

To Operate the Chuck



PINCH HAZARD.

Do not contact the chucks while in operation.

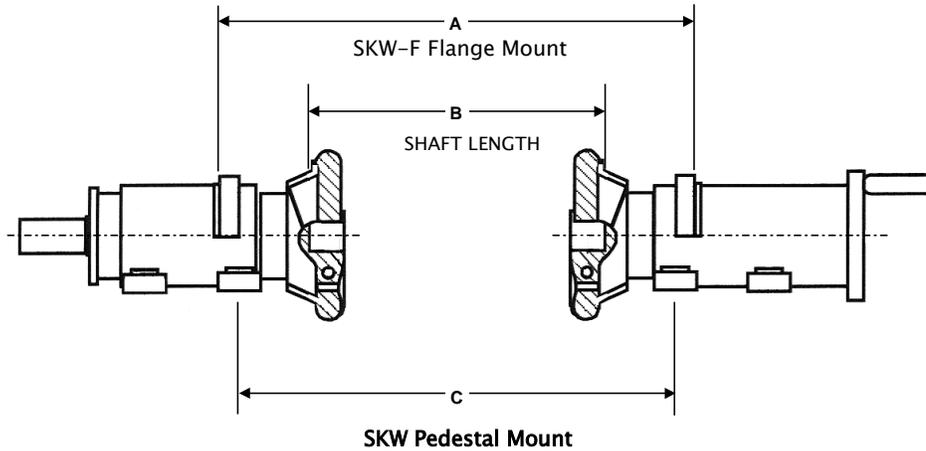
Do not place your hands behind the finger guard.

1. Manually tilt back the handwheel to open the chuck.
2. Load the shaft. When installing the shaft, it is important to place the shaft straight into the chucks. The shaft should be level and the journals should enter chucks at the same time.
3. Manually return the handwheel to the upright position to close. **Always close chucks manually to avoid premature wear on chuck parts.**
4. Open chucks by rotating chuck until the socket is at the 12 o'clock position, and then push the closing ring open with an open hand.
5. When removing the shaft, it is important to lift the shaft straight out of the chucks.
6. The shaft should be level and the journals are lifted out of both chucks at the same time.

OPERATION

Sliding Chuck—Adjustment

Sliding chucks can be adjusted in axial directions allowing the roll to be moved left or right.



Standard—Adjustable 50mm (2.0")				
	Model 22-30	Model 30-40	Model 40-50	Radial 30-40
A	B + 188mm (7.4")	B + 197mm (7.8")	B + 219mm (8.6")	not applicable
C	B + 156mm (6.1")	B + 156mm (6.1")	B + 176mm (6.9")	B + 146mm (5.8")

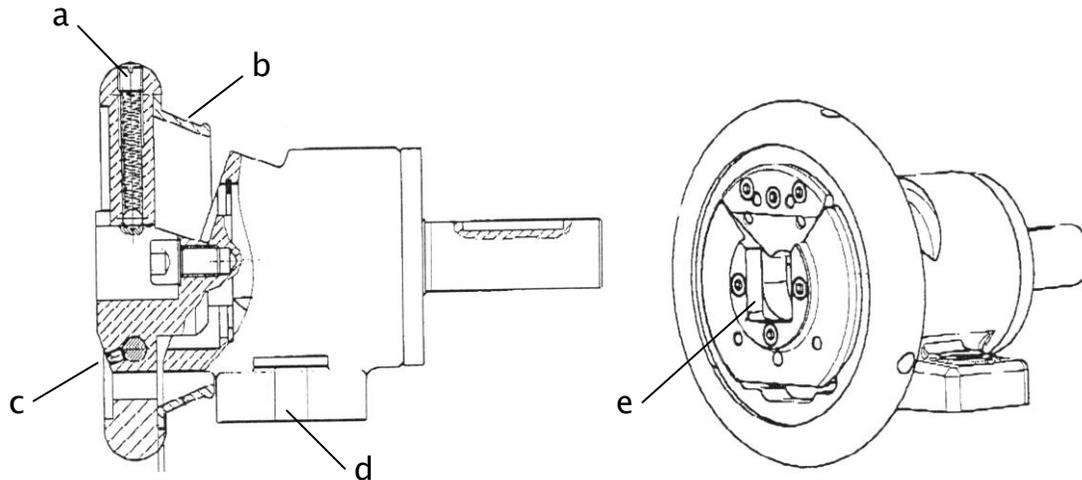
Optional—Adjustable 100mm (4.0")		
	Model 30-40	Model 40-50
A	B + 247mm (9.7")	B + 269mm (10.6")
C	B + 206mm (8.1")	B + 226mm (8.9")

Sliding chucks without shaft end (SKO or SKO-F)
This is the driver chuck. Use a crank to adjust the roll.

Sliding chucks with shaft ends (SKW or SKW-F)
This chuck operates the idler side of the application. A motor, brake, or clutch can be fixed on the free shaft end.

The shaft links the driver side chuck to the idler side chuck.

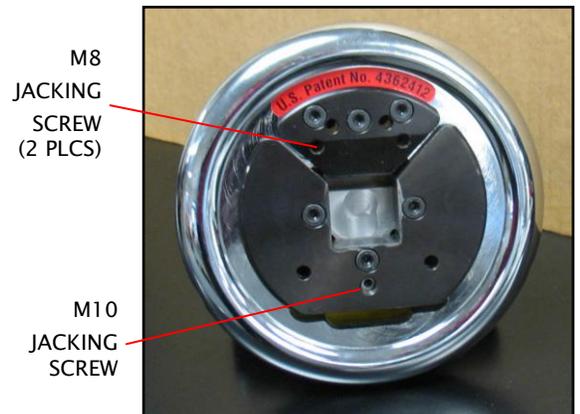
Safety Check Inspection



- Is the adjustment assembly functioning correctly? (a)
- Is the finger guard in place? (b)
- Is the pivot pin centered and tight? (c)
- Is the chuck mounting tight? (d)
- Is the square pocket worn? (e)
- Is the safety chuck housing worn? If the chuck will not stay closed, or there is evidence of metal shavings under the chuck, the housing is worn. **Do not operate if the chuck will not stay closed.**

Removing the Inserts

1. Use 6 mm hex wrench to remove all bolts.
2. Use jacking screws to remove the inserts from the guide pins:
 - a. For top insert, use the removed bolts as jacking screws.
 - b. For bottom insert, use a M10 bolt and 8 mm hex wrench.

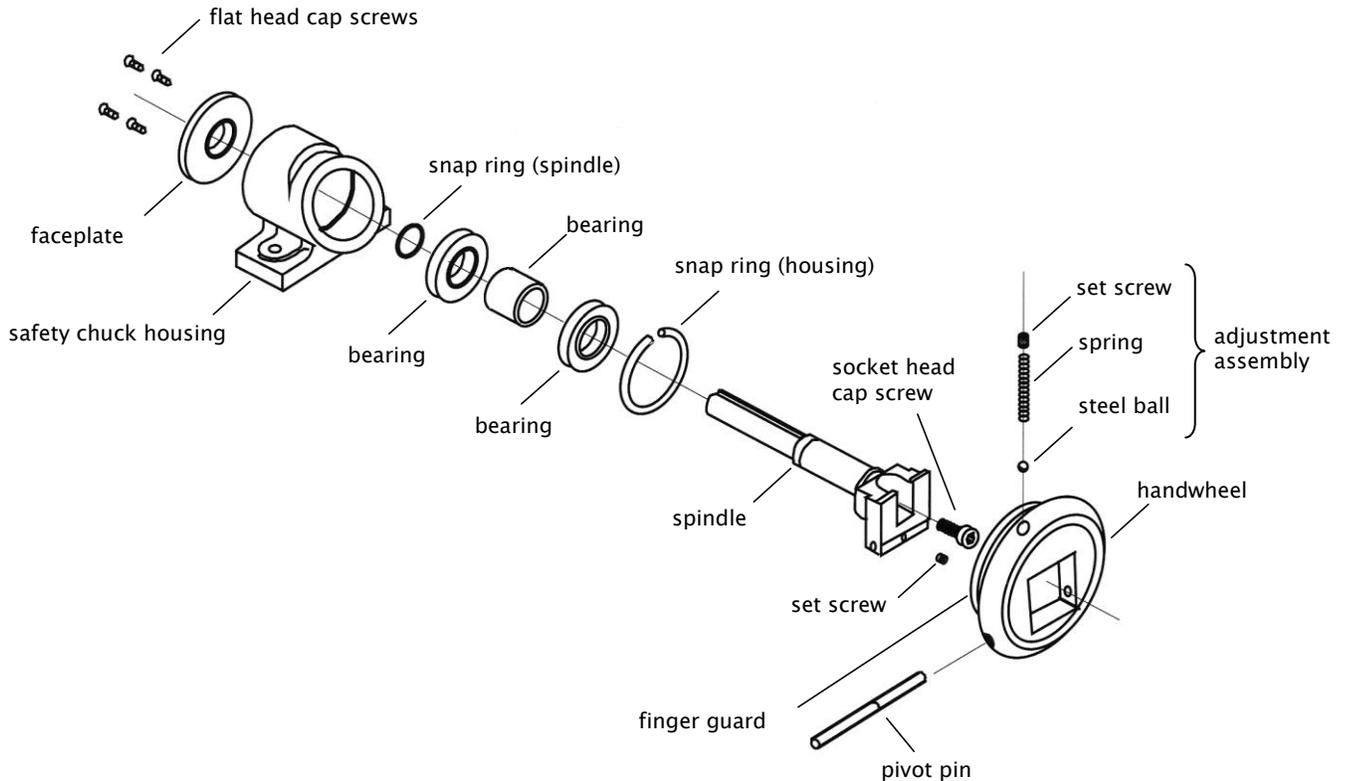


TROUBLESHOOTING

Problem	Possible Causes	Recommended Solution
Chuck opens during operation	The handwheel was not closed manually or was not closed correctly	Manually close the handwheel completely before each operation
	The shaft is bending more than 0.4 degrees at the end of the journals	Review shaft design and application with Maxcess Customer Service.
	Chucks are misaligned	Align chucks
	Chuck housing is worn	Remove chuck from service and replace.
	Shaft is too short	Properly size shaft to chuck spacing
Worn chuck housing and handwheel	Excessive shaft deflection	Review shaft design and application with Maxcess Customer Service.
	Shaft overall length is too short	Replace shaft
	The chuck is misaligned	Ensure correct chuck installation and correct shaft length. See Installation Instructions
Handwheel is not closing or is not closing easily	Metal shavings and other debris trapped under the chuck	Remove all debris before each operation
	The shaft is not installed correctly	When installing shaft, make sure to place the shaft straight into the chucks and enter both at the same time.
	The handwheel pivot pin is bent	Replace handwheel pivot pin
Excessive journal wear (Classic version only)	Wear part is too soft	Consult Tidland
	Chuck are misaligned	Align chucks
	Shaft is too short or too long	Properly size shaft to chuck spacing
	Journal dimensions are undersized or worn	Replace journal
Excessive socket wear	Wear part is too soft	Call Maxcess Customer Service.
	Journal dimensions are undersized or worn	Replace journal
Clanking noise when running	Socket is worn	Replace socket
	Journal dimensions are undersized or worn	Replace journal

SPARE PARTS

Assembly diagram



Please refer to the size and type of Safety Chuck when ordering spare parts.

- Handwheel and pivot pin
The spindle must also be replaced with the handwheel.
- Finger guard
- Steel ball, spring, set screw (adjustment assembly)
- Optional replacement VT-inserts to accommodate a spindle with a different journal

MAXCESS®

WEBEX   

NORTH, CENTRAL
AND SOUTH AMERICA
Tel +1.405.755.1600
Fax +1.405.755.8425
sales@maxcessintl.com
www.maxcessintl.com

EUROPE, MIDDLE EAST
AND AFRICA
Tel +49.6195.7002.0
Fax +49.6195.7002.933
sales@maxcess.eu
www.maxcess.eu

CHINA
Tel +86.756.881.9398
Fax +86.756.881.9393
info@maxcessintl.com.cn
www.maxcessintl.com.cn

INDIA
Tel +91.22.27602633
Fax +91.22.27602634
india@maxcessintl.com
www.maxcess.in

JAPAN
Tel +81.43.421.1622
Fax +81.43.421.2895
japan@maxcessintl.com
www.maxcess.jp

KOREA, TAIWAN,
AND SE ASIA
Tel +65.9620.3883
Fax +65.6235.4818
asia@maxcessintl.com