OPERATING MANUAL Mechanical face driver



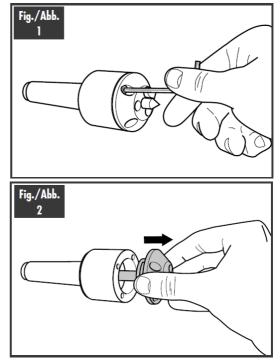
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1. Use and maintenance

- 1. INSTALLATION: Before mounting the face driver in its holder, make sure that the mounting parts are clean and carefully clean the taper coupling.
- FIRST USE: After securing the driver, place the workpiece in its base. Make sure that the driver tip enters the central opening of the workpiece correctly. Apply the recommended load to the counter tip (see table on page 5). The tip of the driver allows the driver pins to penetrate the workpiece when the machine is retracted. Before starting machining, make sure that the workpiece is correctly clamped.
- 3. Each time the face driver is removed for a longer period of non-use, it must be carefully cleaned with a cloth, oiled and stored in its original container.
- 4. <u>ATTENTION:</u> If you notice unusual noises or excessive heat coming from the face driver or tip, turn the machine off immediately and consult a qualified technician.
- 2. Instructions for use
 - 1. Replacement of the tip

Loosen and remove the 4 screws of the support head (Fig. 1) and carefully pull the tip out of its seat (Fig. 2). Clean the parts, insert the new tip, lubricate and reassemble everything by carefully tightening the screws.



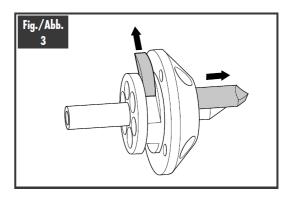
Mechanical face driver

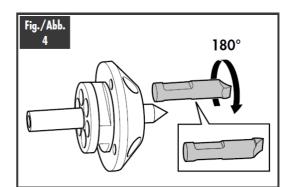
2. Replacing the driving pins

Loosen and remove the 4 screws of the support head (Fig. 1), remove the safety wedges and carefully pull the driving pins out of their seats (Fig. 3). Clean the parts, insert the new driving pins, lubricate and reassemble everything by carefully tightening the screws.

3. Increase the pulling radius

First proceed as for the replacement of the driving pins (Fig. 1 / 3). However, in the assembly phase, turn the driving pins 180° into their seat to insert them (Fig. 4).

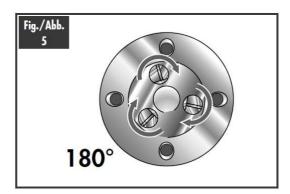




4. ATTENTION:

The use of the directional pulling bolt is recommended for particularly severe interventions.

- The driver is supplied as standard with bolts rotating in both directions (type S1).
- If these bolts are rotated 180°, the max. rotatable ø increases by up to 20 % (Fig. 5).

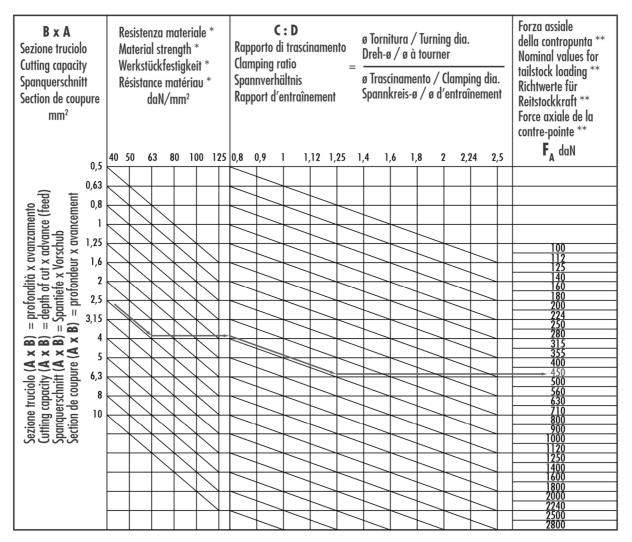


3. Technical data

1. General data

 A = Avanzamento mm. per giro Feed, mm per revolution Vorschub in mm. je Drehung Avancement en mm par tour B = Profondità di passata Depth of cut Schnittiefe Profondeur de coupe 						
C = ø max. di tornitura max. turning diameter Höchstdrehdurchmesser Diamètre maxi à tourner	F _A x 2 F _A x 1,5 F _A x 1 Z2 Z1 Z Esempio:					
 D = ø di trascinamento clamping diameter Spannkreisdurchmesser Diamètre d'entraînement Esempio Evenue la 	ZTornitura opposta al mandrino1. Capacità di taglio $B \times A$: $6 \times 0,4 = 2,4 \text{ mm}^2$ 2. Resistenza materiale: $= 63 \text{ daN/mm}^2$ 3. Rapporto di trascinamento $C : D$ $51 : 41 = 1,24$ 4. Forza assiale contropunta (vedi grafico): $F_A = 450 \text{ daN}$ ** Fattore di conversione per:Z1Esecuzione radiale gole $F_A \times 1,5$ Z2Tornitura opposta alla contropunta $F_A \times 2$					
Example Beispiel Exemple: B x A = Sezione di truciolo Cutting capacity Spanquerschnitt	 Example: Z Turning against the headstock Cutting capacity B x A: Workpiece strength: Clamping ratio C : D S1 : 41 = 1,24 					
Section de coupure	4. Tailstock loading (from graph): $F_A = 450 \text{ daN}$ ** Conversion factor for: $F_A \times 1,5$ Z1 Radial recessing $F_A \times 1,5$ Z2 Turning against tailstock $F_A \times 2$					
RESISTENZA MATERIALE MATERIAL STRENGTH WERKSTÜCKFESTIGKEIT RESISTANCE MATERIAU daN/mm ² C:D = Rapporto di trascinamento Clamping ratio	 ▶ Beispiel: Z Drehen gegen den Spindelstock Spanquerschnitt B x A: Spanquerschnitt B x A: Werkstückfestigkeit: Spannverhältnis C : D S1 : 41 = 1,24 Reitstockkraft (nach Schaubild): F_A = 450 daN ** Umrechnungsfaktor beim: Z1 Radialeinstechen F_A x 1,5 Z2 Drehen gegen den Reitstock 					
Spannverhältnis Rapport d'entraînement	 Exemple: Z Tournage contre le mandrin Capacité de coupe B x A: Coupe attraction coupe contre-pointe (voir graphique): F_A = 450 daN ** Facteur de conversion pour: Coupe formates F_A x 1,5 Tournage contre la contre-pointe F_A x 2 Capacité de coupe B x A: Coupe coutre la contre-pointe F_A x 2 Capacité de coupe coutre la contre-pointe Capacité de coupe c					

2. Axial load for the face drivers



— Esempio - Example - Beispiel - Exemple

*) RESISTENZA MATERIALE - MATERIAL STRENGTH - WERKSTÜCKFESTIGKEIT - RÉSISTANCE MATÉRIAU:

DaN/mm ²	40	50	63	80	100	125
Materiale	St 34-37	St 42	St 50	St 60-70	20MnCr5	18CrNi8
Material	9-15\$20	C 10	C 15-22	C 35-45	C 60	30CrMoV9
Werkstoff	GG 14-35	GG 40	22\$20	16MnCr5	15CrNi6	55CrMo4
Matériau	GGG-38	GGG-42	GGG-50	GGG-60	GGG-80	105WCr6

3. Driving pins

Type S1 Rotation in both directions



Type S2 Counter clockwise rotation Type S3 Clockwise rotation

