

Assembly Press

Assembly Press Precision 1-200-300

Main functions	
Nominal force (push/pull)	1/1 kN
Stroke	200 mm
Nominal speed	300 mm/s
Nominal acceleration	5000 mm/s ²
Dwell time of nominal load	min. 4 s
Weight mechanics (NGX/HGX)	12,5 / 12,7 kg
Max. tool weight*	1 kg
Force	
Measuring principle	DMS
System accuracy**	<0,5% with 2-point-calibration / <0,1% with characteristic map
Amplifier PDM-S / (WxHxD)	Aluminum die-cast / 125 x 80 x 57 mm
Output signal	digital
Protection class	IP40
Power supply	19...36 VDC (3 W)
Distance measuring	
Feedback device	Multiturn
Repeatability of positioning***	< 0,01 mm
Servo amplifier	
Type	M702-034-00025-A
Dimensions (WxHxD)	83 x 382 x 200 mm
Mains voltage	3 AC 380 V ... 480 V, +/- 10 %
Cable cross section (input)	IEC 1,5 mm ² / UL 18 AWG
Cable cross section (output)	IEC 1,5 mm ² / UL 18 AWG
Protection class (DIN 60529)	IP20
Weight	4 kg

Servo amplifier	
Recommended protection	IEC 10 A gG UL/USA 10 A CC or J
Temperature range	-20 °C...+50 °C
Power loss	94 W
Line filter	
Weight	2 kg
Cable cross section (input)	4 mm ² / 12 AWG
Power loss	13 W
Dimensions (WxHxD)	83 x 426 x 41 mm
Protection class (DIN 60529)	IP20
Interfaces	
PC	Ethernet
PLC (24 VDC)	3I / 4O
PLC Fieldbus	Profibus, Profinet, EtherCat, EtherNet/IP, Modbus/TCP
Extension Options	PDM-A: 4x analogue / PDM-P: Piezo / PDM-I/O: 16I / 16O

* if using a holding brake: max. permitted tool weight = 10% nominal load. For a heavier tool weight please consult PROMESS.

** Force measuring system, static calibration in relation to the reference system / *** at thermal steady-state

All nominal values refer to 400 V mains voltage.

Tilting of the plunger due to the tool weight must be considered for a horizontal installation.

Radial forces must not exceed 8% of the nominal force of the unit.

If the ratio of pause time / cycle time is < 0,5, please consult PROMESS.

Order code: **PR5ID010-020-030**

Motor position

I: Inline / P: Parallel

Measuring principle:

D: Strain gauge / P: Piezo

Nominal force in 1/10 kN

Nominal stroke in cm

Nominal speed in cm/s

Brake:

H: Holding brake / S: Safety brake

N: without brake

Special type:

GX: Basic version / XX: Special type

For more efficiency.

295,5

54,5

2x Ø 10 H7

4x M6

10

6

*Arbeitshub ca. / Stroke approx.
64,5 mm -264,5 mm

313

75

NXX:593 / HXX:617

Ø 25

12

Ø 10 H7

28

M6

54

200

30

Ø 18 ±0,1

2x M4 ∇ 10

Kabelabgang Kraftaufnehmer /
Lead outlet force transducer

Ø 4 H7 ∇ 10

ca. 96

92,5

65

48

□ 55

*Schmierposition: 64,5 mm
*Lube position: 64,5 mm

XX=folgende Buchstaben haben keine Auswirkungen auf die Anschlussmaße
following letters have no effect to the connection dimensions

PR5ID010-020-030NXX / HXX

[06/2020 technische Änderungen vorbehalten]

Zum Schmieren des Kugelgewindetriebes wird der Gewindestopfen (A) in der Schmierposition des Stempels abgeschraubt und ein Schmiernippl in die M6 Schmierbohrung des KGT's eingeschraubt. Anschließend wird der KGT mit 0,2cm³ Fett abgeschmiert.

Schmierintervall 1000 h oder 250000 Hübe. Schmierfett: KLÜBER-ISOFLEX NCA 15

In order to lubricate the ball screw, move the ram to the lube position, remove the cap (A) and attach a grease nipple in the ball screw. Afterwards, lubricate the ball screw with 0,2 cm³ grease. Lubricating intervals 1000 h or 250000 strokes.

Used grease: KLÜBER-ISOFLEX NCA 15