Data sheet

Assembly Press

Assembly Press Precision 1-100-400

Main functions	
Nominal force (push/pull)	1 / 1 kN
Stroke	100 mm
Nominal speed	400 mm/s
Nominal acceleration	5000 mm/s²
Dwell time of nominal load	min. 4 s
Weight mechanics (NGX/HGX)	11,8 / 12 kg
Max. tool weight*	1 kg
Force	
Measuring principle	Piezo
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 mm² / UL 18 AWG
Cable cross section (output)	IEC 1,5 mm² / 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 mm² / 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 PROMESS Bus	PDM-A: 4x analogue / PDM-P: Piezo / PDM-I/O: 16I / 16O

* if using a holding break: 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: PR5PP010-010-040... ... ...

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

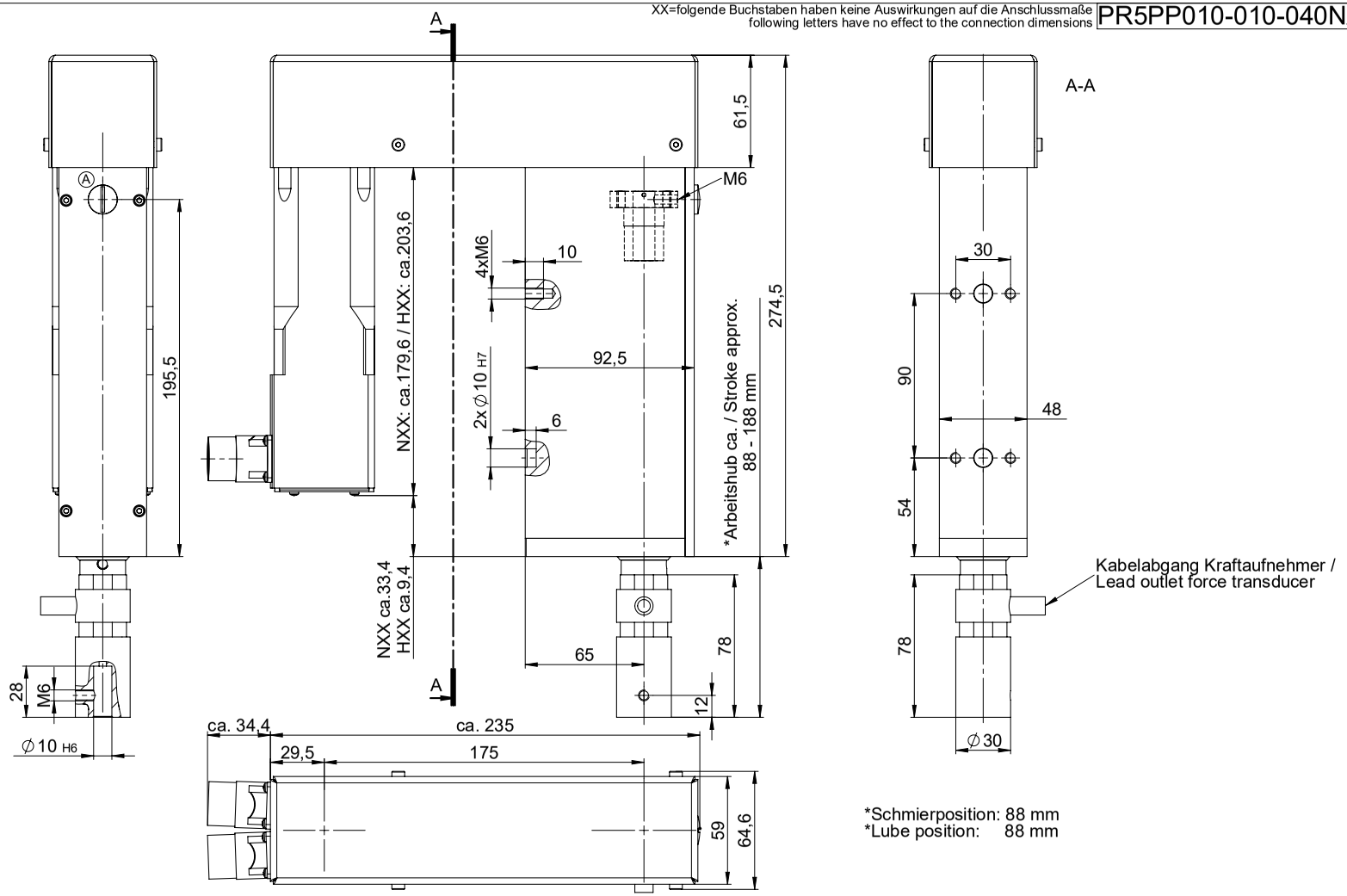
Special type:
GX: Basic version / XX: Special type

For more efficiency.

PROMESS
ASSEMBLY + SENSOR TECHNOLOGY

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

PR5PP010-010-040NXX / HXX



02/2021 technische Änderungen vorbehalten

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

PROMESS Gesellschaft für Montage- und Prüfsysteme mbH
Nunsdorfer Ring 29, D-12277 Berlin
Tel.: +49-30-62 88 72 0
promess@promessmontage.de | www.promessmontage.de