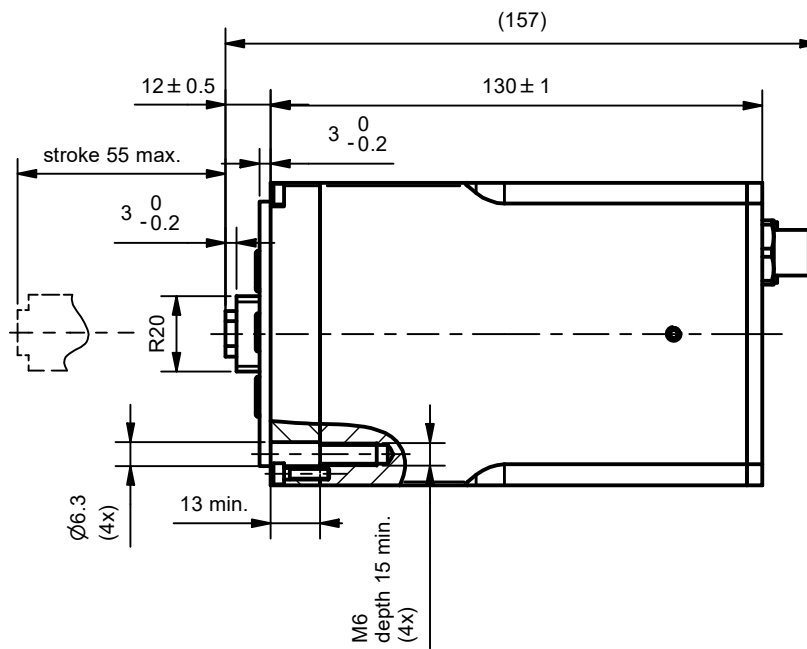
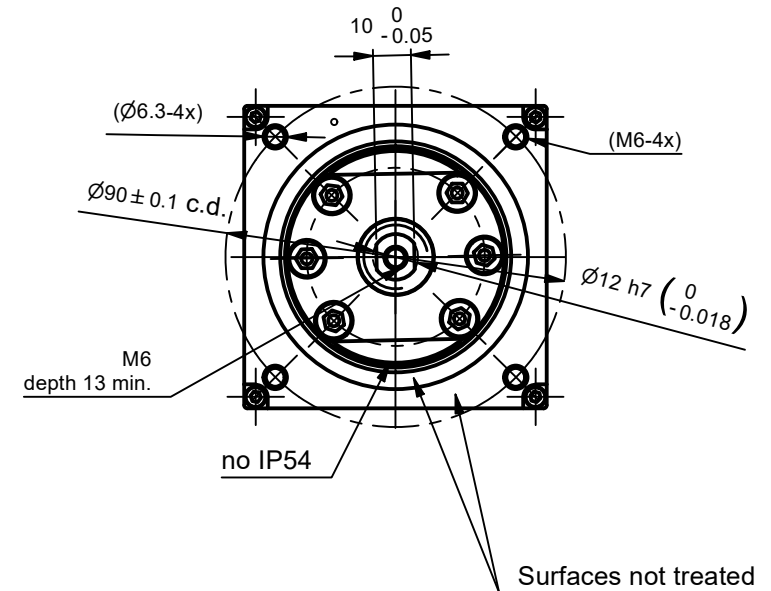
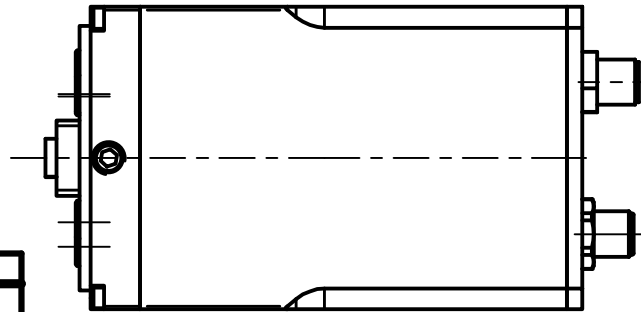




SPECIFICATION		LBA80LDR-2050-E4-55	
Motor	Rated Voltage $\pm 10\%$	V DC	48
	Current - Rated / Peak	A	7.8 / 23.4
	Inductance Line to Line (1 kHz) $\pm 20\%$	mH	0.36
	Resistance Line to Line (20°C) $\pm 10\%$	Ω	0.34
	Rated Power	W	310
	No. of Poles		20
Mech. Spec.	Force - Rated / Peak	N	1000 / 3000
	Speed - Rated / No Load $\pm 10\%$	mm/s	208 / 254
	Speed - Rated / No Load $\pm 10\%$	rpm	2500 / 3200
	Lead	mm	5
	Inertia	Kgmm ²	377
	Axial Play Max. (without brake)	mm	0.04
Rot. Encoder E4	Operating Voltage $\pm 10\%$	V DC	9 ... 30
	Resolution	bit	17
	Signal Type		SSI
Ambient Cond.	Ambient Temperature	°C	0 ... 40
	Ambient Humidity Max. (no condensing)	%	85
	Storage Temperature	°C	0 ... 40
	Protection Class (except shaft outlet)		IP 54

X2 Encoder-SSI		X1 Power	
		M12 / 4-Pole / L-coding / male	
M12 / 8-Pole / A-Coding / Male		PIN No.	Function
PIN No.	Function	1	U
1	SCLK+	2	V
2	SCLK-	3	W
3	SDO+	4	n.c.
4	SDO-	cable shield on housing	
5	GND		
6	Preset		
7	n.c.		
8	V+		
cable shield on housing			

Motor body black anodized
c.d. = center bore diameter



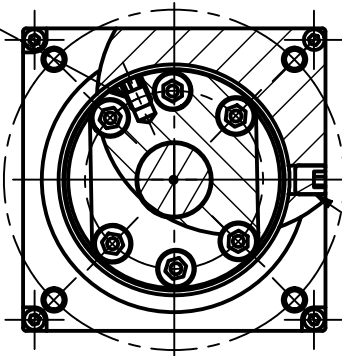
In addition to this datasheet the documentation of all components mentioned with part number is applicable and has to be considered

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715		Material: acc. part drawings			Weight in Kg (± 10%): 2.7				
					Date	Name		Article No.: LBA80LDR-2050-E4-55							
04	CR-2026-0071	Kaufmann_M	29.10.2026	Drawn	19.09.2025	Kaufmann_M									
03	ECP-12-05-26	Kaufmann_M	10.06.2026	Reviewed	23.09.2025	Kolev_I									
02	Change pole nr. to 08	Kaufmann_M	28.10.2025	Released	24.09.2025	Kaufmann_M		Drawing No.: 20003210				Scale: 1 : 2			
01	CR-XXXX	Kaufmann_M	30.09.2025	 Nanotec [®] PLUG & DRIVE				A4 Page 1							
Rev	Rev. Text	Name	Date					State: Released		Rev: 04		CONFIDENTIAL		 	

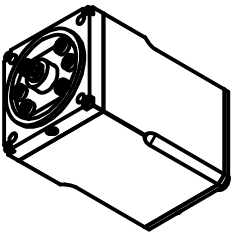
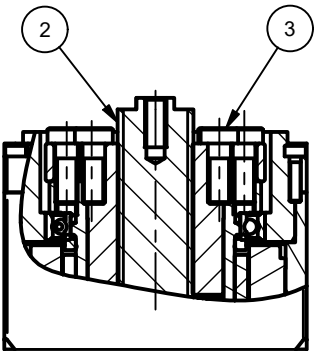
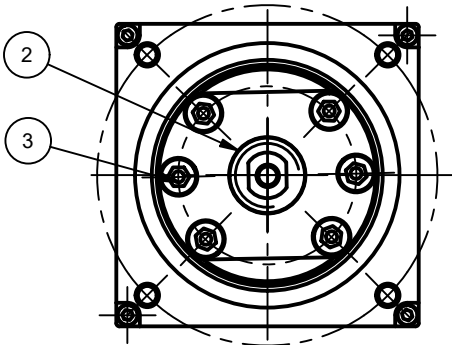
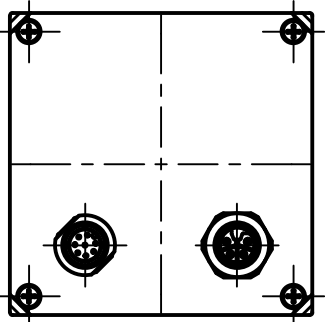
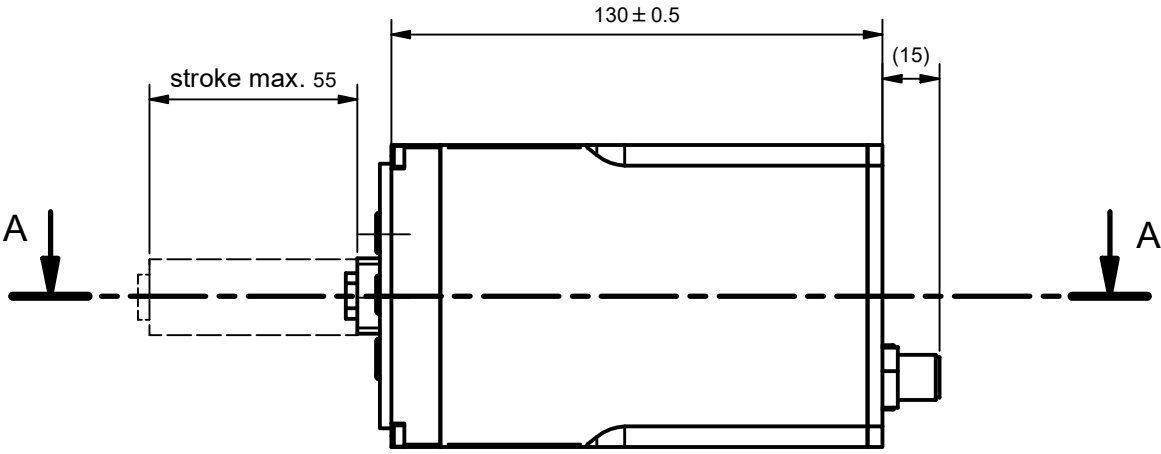
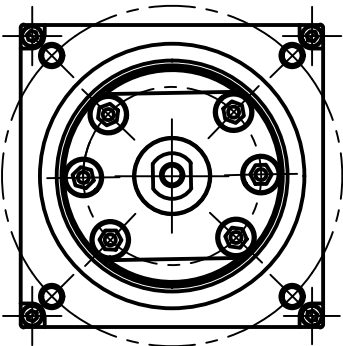
Insert the ball-screw (pos.2) in the GM:

- 1. Hold the GM (pos.1) in vertical position to insert the ball-screw (pos.2).
- 2. Check: the grease filling hole in the ball screw must be closed with a grub screw (M6)!
- 3. Insert the ball-screw and fix it with 4 screws M6 (pos.3).
- 4. Tightening torque M6: max. 27 Nm
The screws are secured with Loctite 243 (pos.5)
- 5. Closed the grease filling hole with a grub screw M8x8 (pos.6).

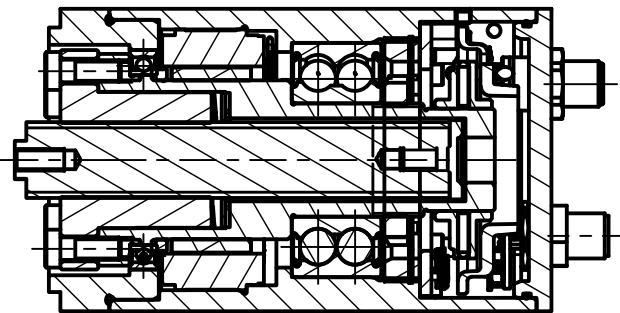
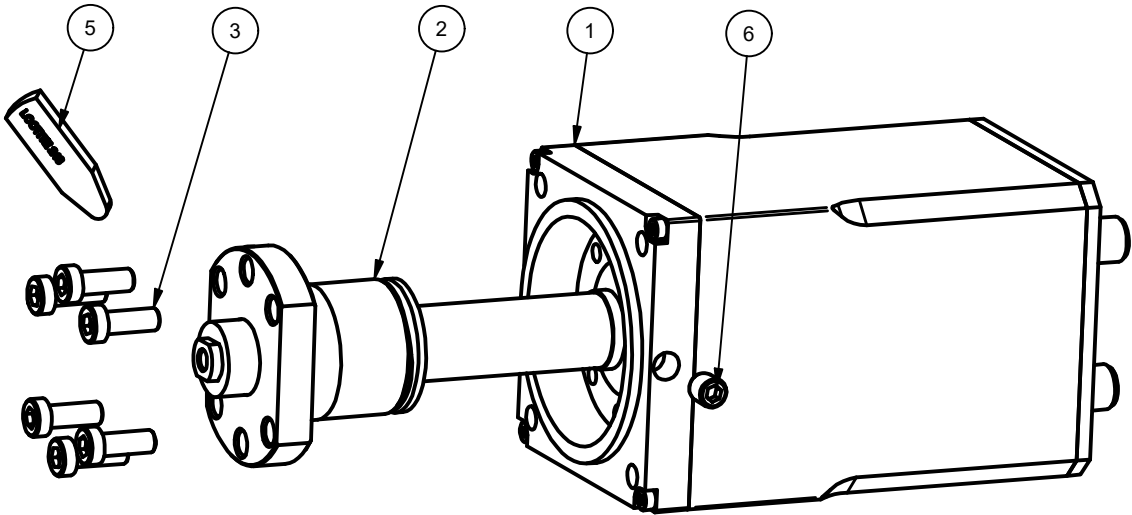
Grease hole in ball-screw
closed with the grub screw M6x8



03
Grease hole in housing



A-A



04 Motor body black anodized

Dimension in the brackets are only informational

6	1	ISO4026-M8x8-45H-Zn	Grub screw with flat point hexagon socket
5	1	n.a.	GLUE-LOCTITE-243
3	6	n.a.	DIN 6912 M6 x 16 - 10.9
2	1	20002603	AS-LBA80-BALLSCREW-PMI-R2050-assembl
1	1	20003209	AS-LBA80-GM-2050-E4-55
POS.	QTY	DRAWING NR.	TITEL
ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715
Material: acc. part drawings			Weight in Kg (± 10%): 2.7
Article No.:			LBA80LDR-2050-E4-55
04	CR-2026-0071	Kaufmann_M	29.10.2026
03	ECP-12-05-26	Kaufmann_M	10.06.2026
02	Change pole nr. to 08	Kaufmann_M	28.10.2025
01	CR-XXXX	Kaufmann_M	30.09.2025
Rev	Rev. Text	Name	Date
Date			19.09.2025
Name			Kolev_I
Date			24.09.2025
Name			Kaufmann_M
Drawing No.:			20003210
State: Released			Rev: 04
CONFIDENTIAL			Scale: 1 : 2
A3			Page 2