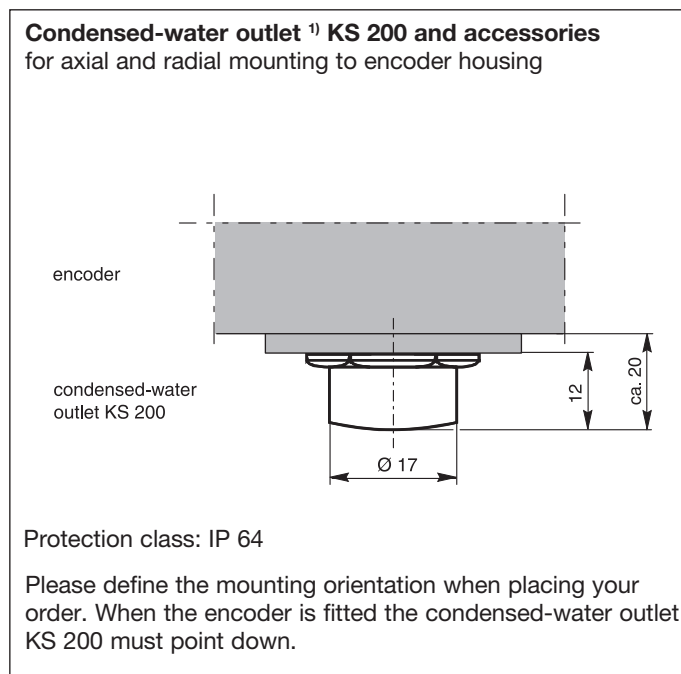
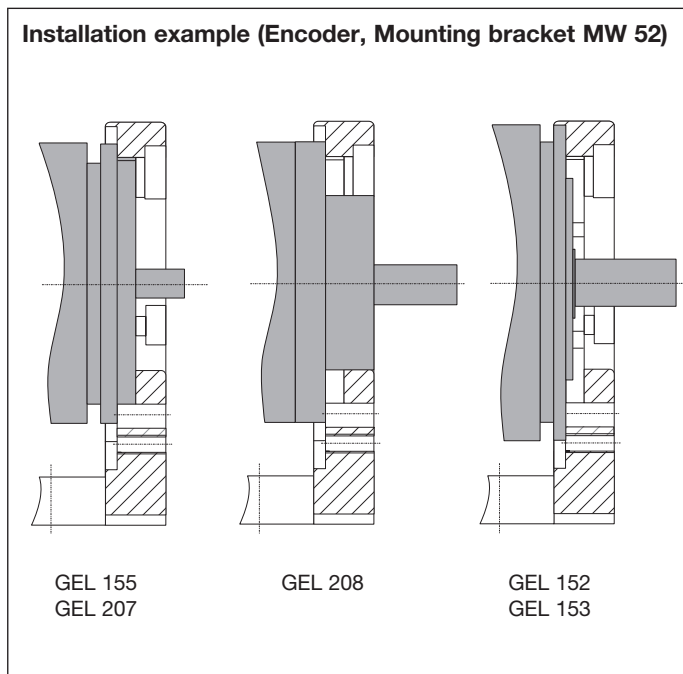
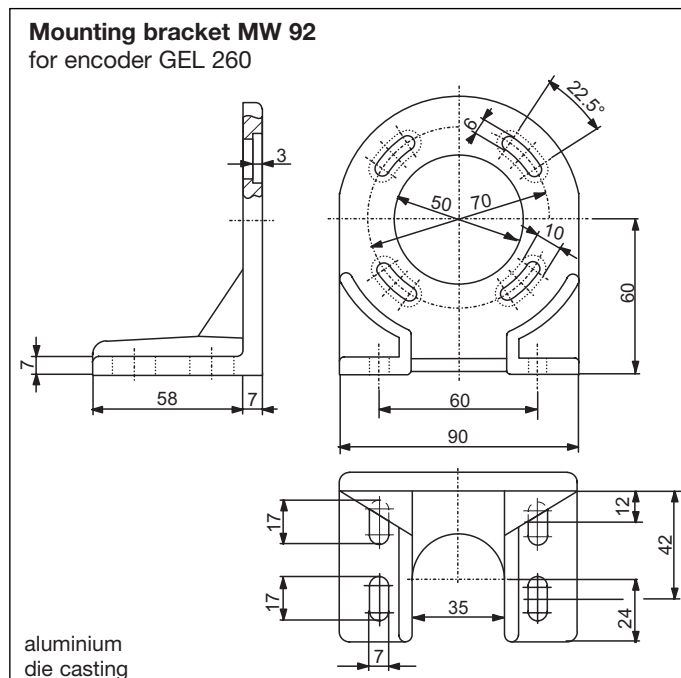
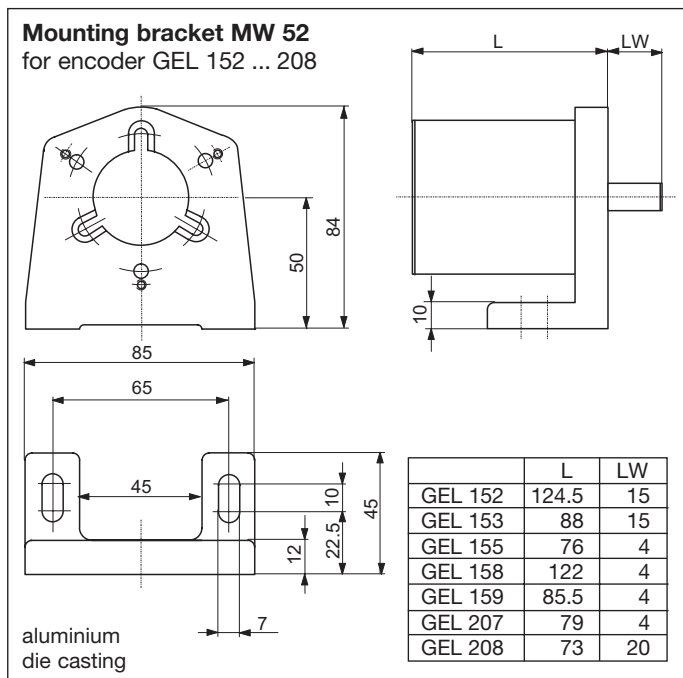


Mounting brackets

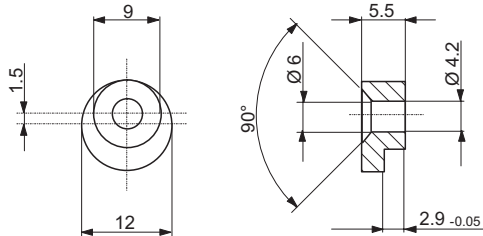
Installation, Condensed-water outlet



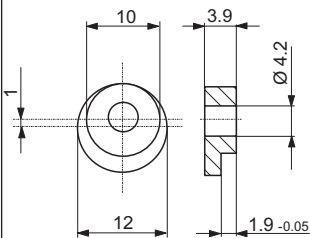
¹⁾ for all encoders GEL ... (excluding GEL 260 EEx)

Clamps, Flange Measuring Wheel, Collet chuck

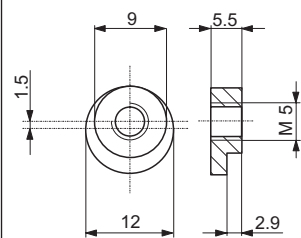
Clamp KL 200
for GEL 207/155



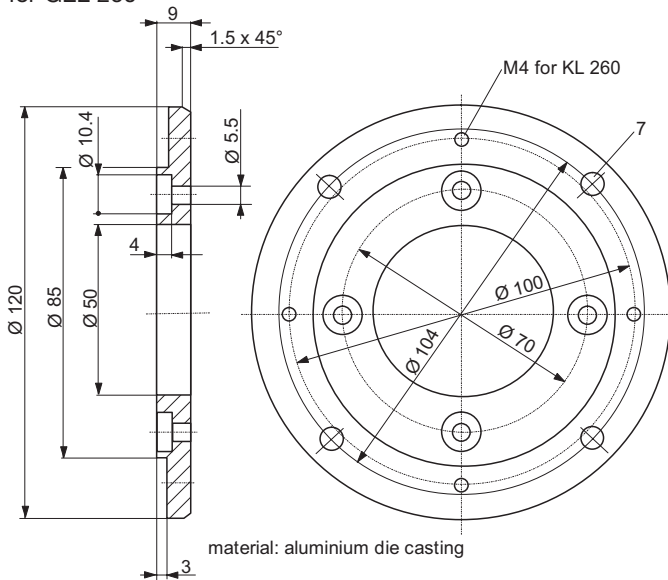
Clamp KL 260
for GEL 152/153/260



Clamp KL 150
for GEL 155

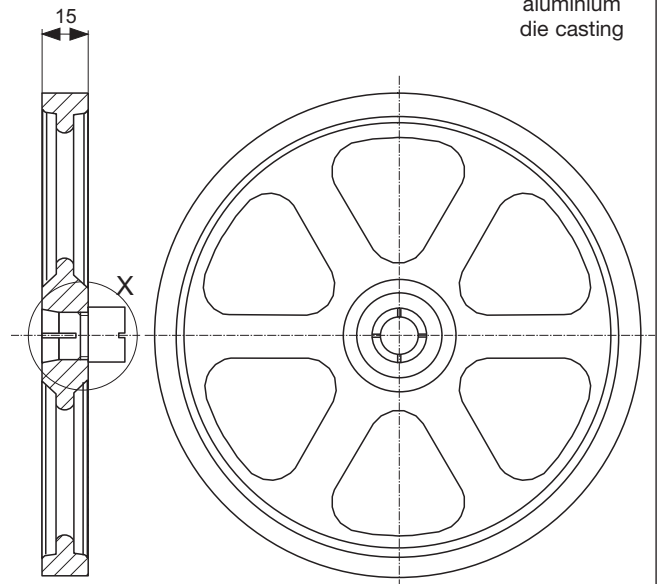


Mounting flange MF 121
for GEL 260

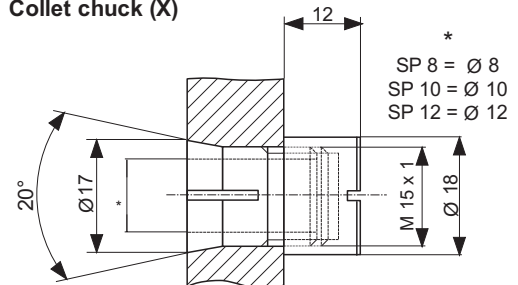


Measuring wheel MRM 500 / MRG 500
incl. Collet chuck

aluminium
die casting



Collet chuck (X)

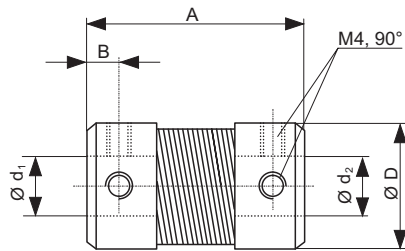


- MRM 500:** circumference 500 mm ± 0.3 mm
(hard anodic coated surface, approx. 700 HV)
- MRG 500:** circumference 500 mm ± 0.8 mm
(rubber coated surface, approx. shore 70)

temperature (rubber) -30° ... +120° C continuous
-40° ... +150° C short term

Couplings

Metal coupling MK 8/MK 12



MK 8 material: X12CrNi18 8 (V2A)
MK 12 material: St

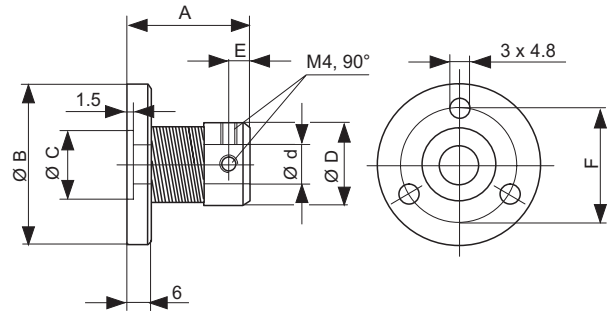
	A	B	D	d ₁ *	d ₂ *	standard d ₁ * - d ₂ *		
MK 8	35	5	21	5 ... 12	5 ... 12	6-6	8-8	10-10
MK 12	50	7	26 ¹⁾	6 ... 15	6 ... 15	12-12		

¹⁾ This coupling can be supplied with a key-way.

* Diameter with Tolerance H7

Maximum play of shaft (coupling size): 3° or 3%

Screw mount coupling MKF 8/MKF 12



	A	B	C	D	E	F	d*	standard d*		
MKF 8	30	42	18 ^{H7}	21	5	30	6 ... 10	6	8	10
MKF 12	40	48	22 ^{H7}	26 ¹⁾	7	37	8 ... 15	12		

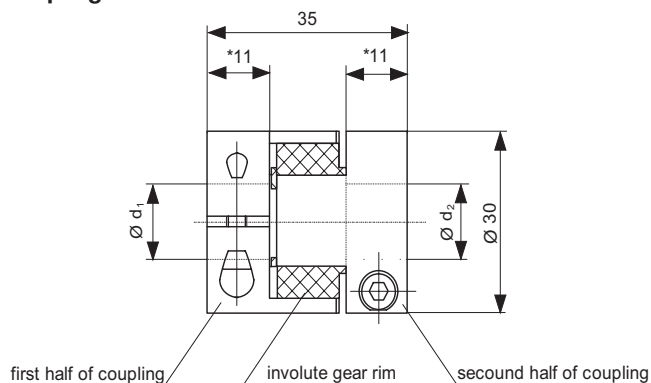
¹⁾ This coupling can be supplied with a key-way.

* Diameter with Tolerance H7

Maximum play of shaft (coupling size): 3° or 3%

Note: Mount coupling with 1 mm pre-load

Clamp coupling KK14



*11 = maximum dimension for inserted shaft

The coupling consists of 2 identical halves, which can be supplied with different inside diameters (d₁ and d₂).

Through fitting the involute gear rim, the two halves of the coupling may be clamped seamlessly and can be assembled free of play (easy to mount).

static stiffness of the torsion spring 125 Ncm/degree
transferable torque, free of play 100 Ncm

misalignment of the shaft:

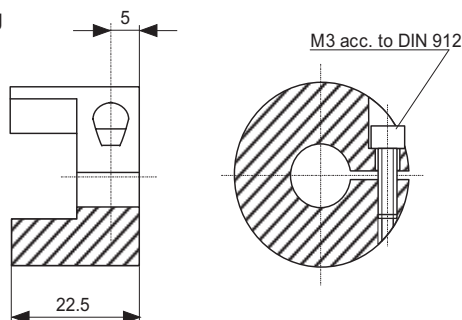
axial	-1 mm
radial	0.2 mm
angular	1 degree

d₁/d₂: 6, 8, 10, 12, 16 mm, tolerance H7
optionally pre-drilled to 5 mm

Order example: KK 14.08-12

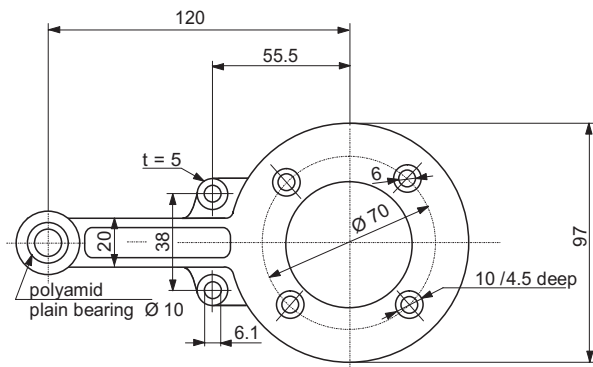
Operating temperature range
intermittent -60°C ... + 120 °C
nominal -50°C ... + 80 °C

Half of coupling

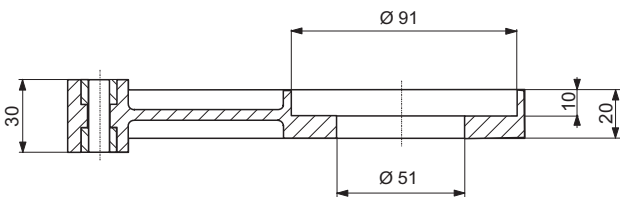


Measuring arm

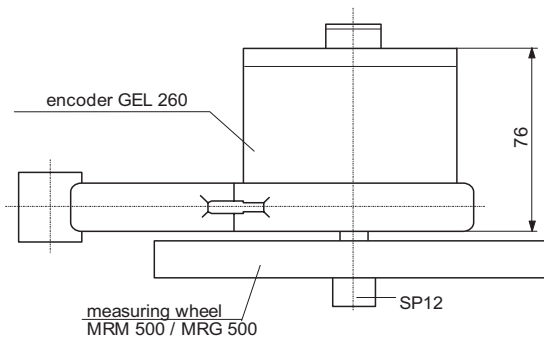
Measuring arm MA 262
for encoder GEL 260



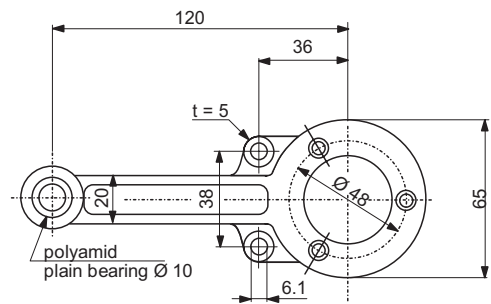
aluminium
die casting



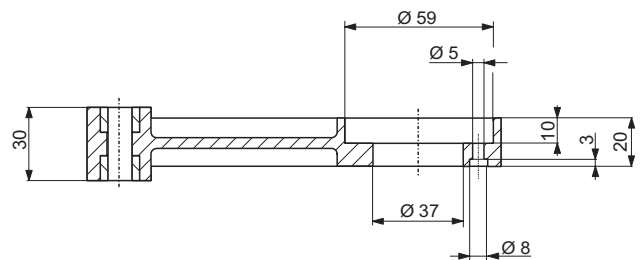
Measuring arm MA 262
with mounted encoder GEL 260
and measuring wheel MR 500



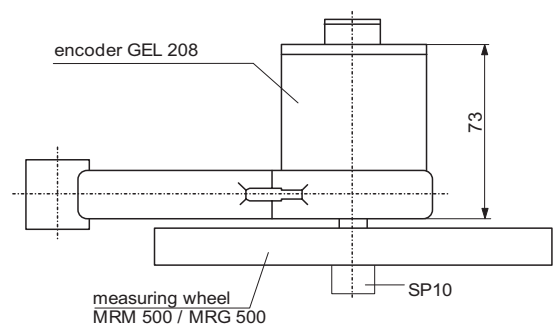
Measuring arm MA 205
for encoder GEL 208



aluminium
die casting

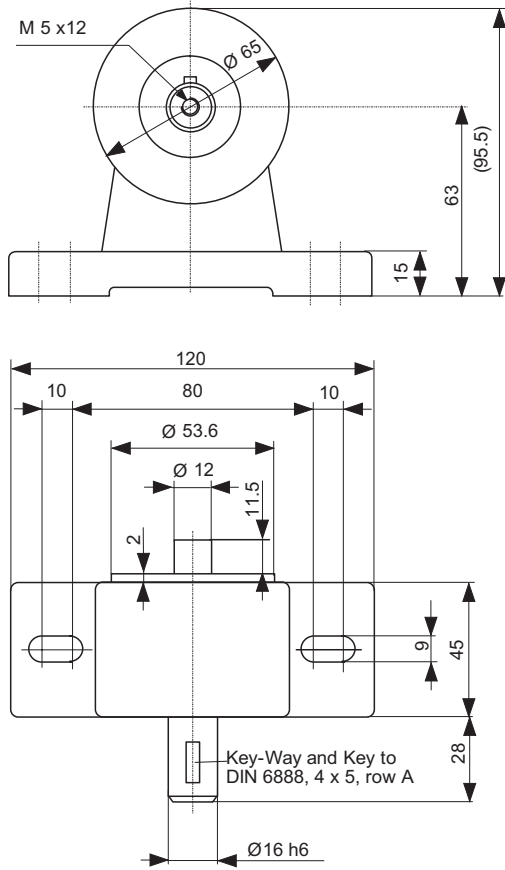


Measuring arm MA 205
with mounted encoder GEL 208
and measuring wheel MR 500

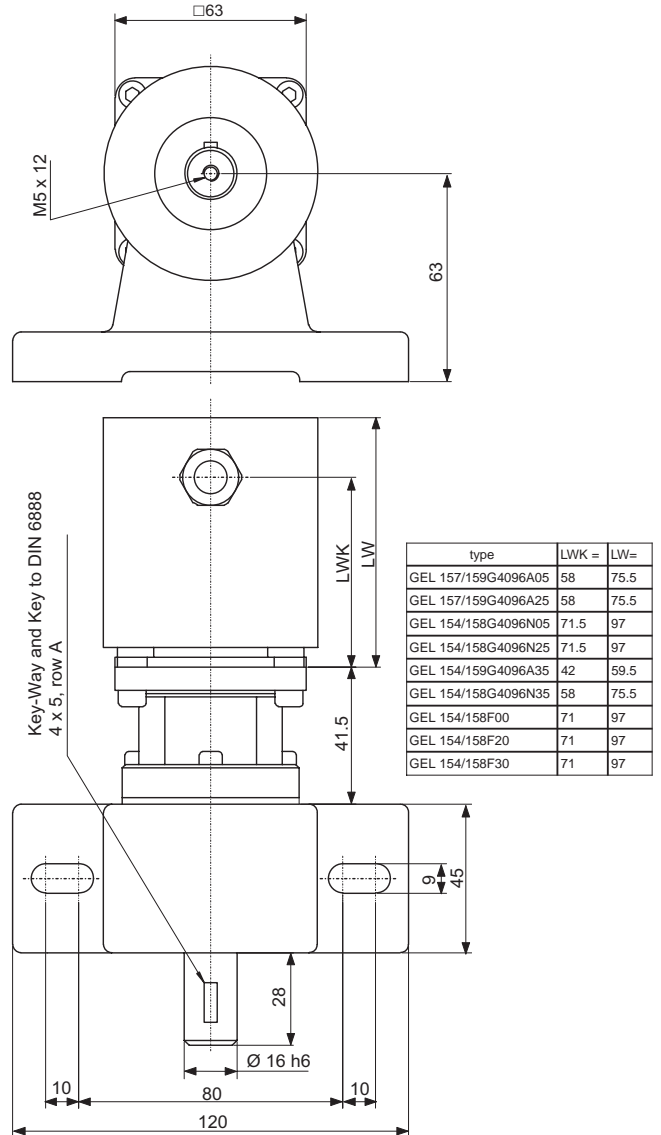


Bearing pedestal

Bearing pedestal LB 200 for encoder GEL 209

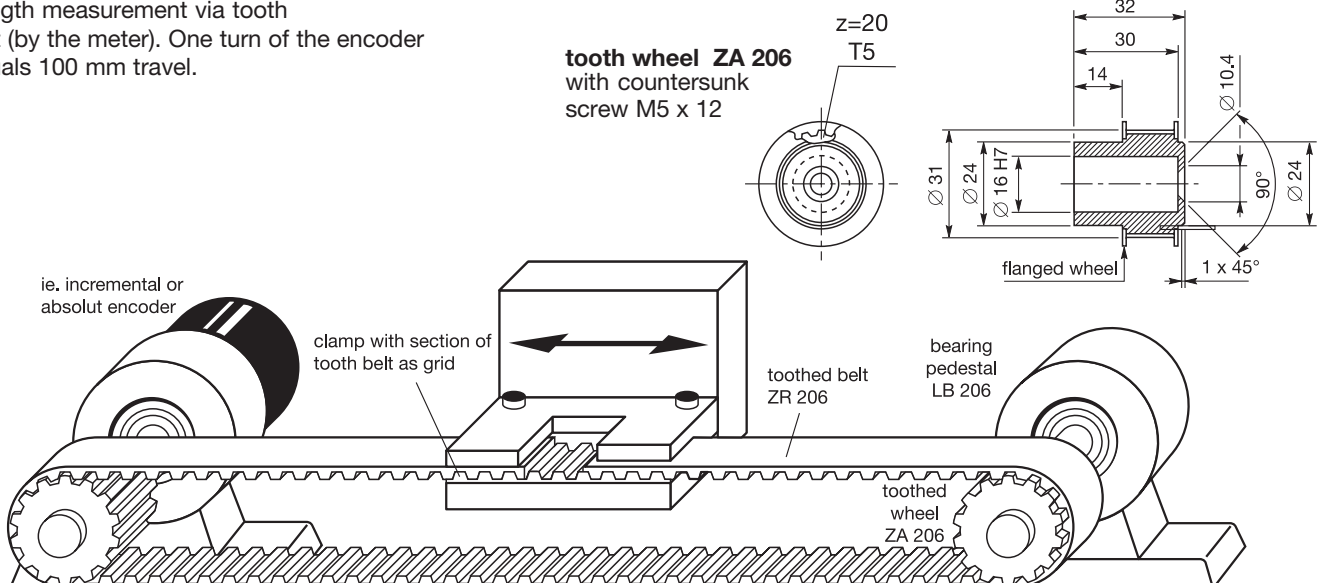


Bearing pedestal LB 150 /LB 154 for absolute encoder GEL 158/159 or GEL 154/157



Application example

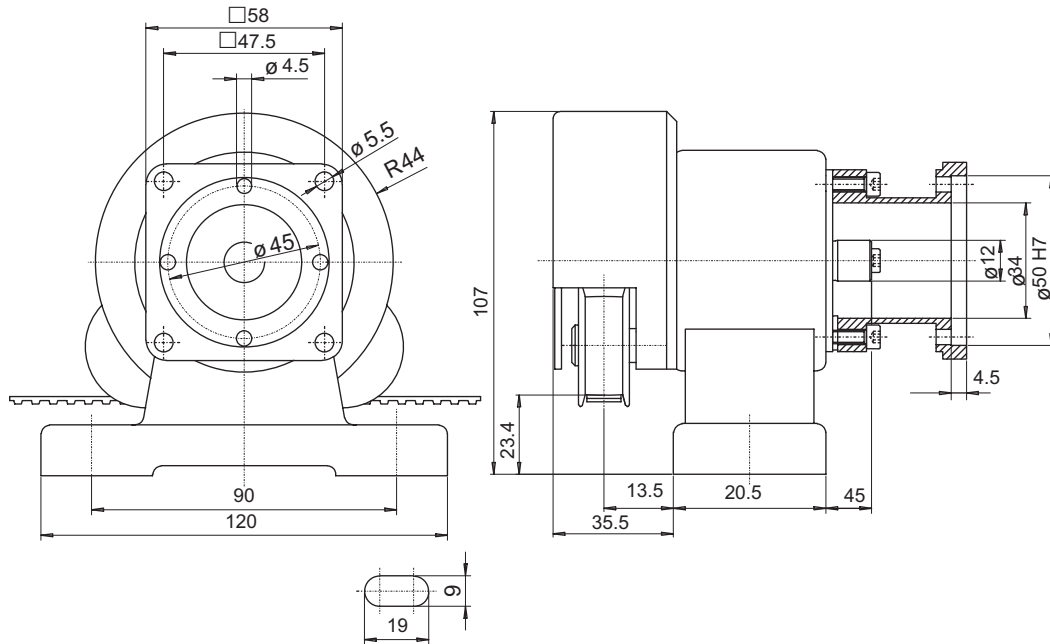
Length measurement via tooth belt (by the meter). One turn of the encoder equals 100 mm travel.



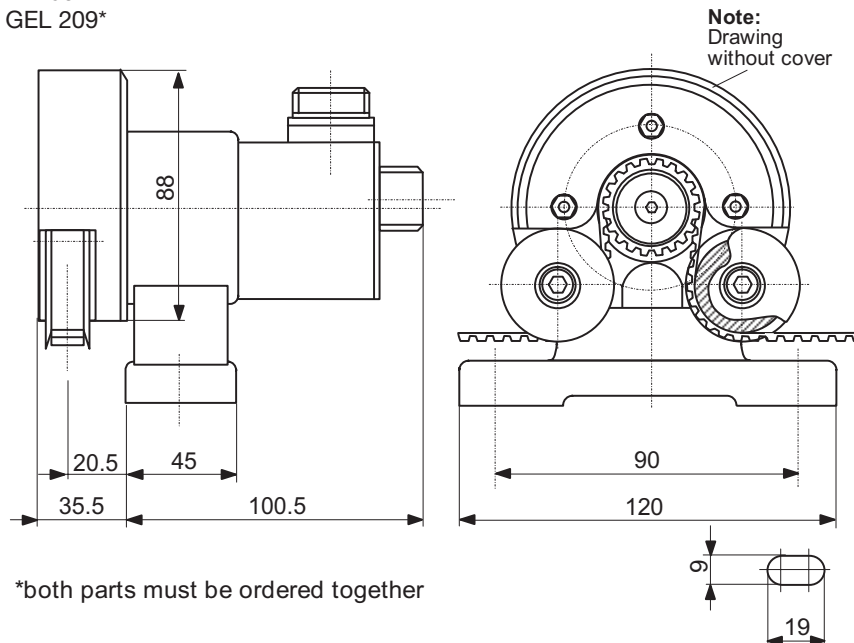
Measuring pedestal

with slip free belt drive for incremental or absolute measurement of large distance for example on cranes.

Measuring pedestal MB 150/MB 154 for absolute encoder type GEL 154 or GEL 158

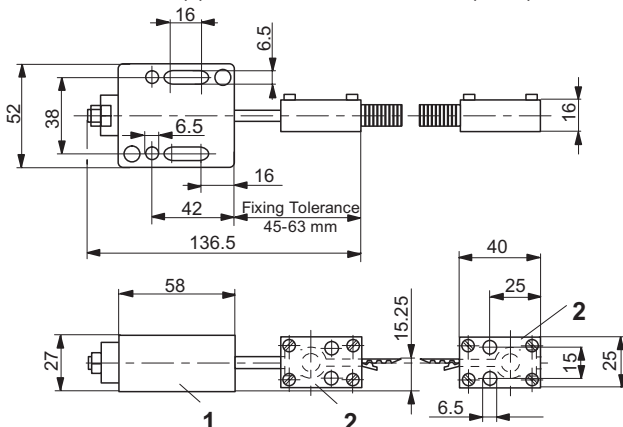


Measuring pedestal MB 206* with mounted encoder GEL 209*



*both parts must be ordered together

Tensioner SE 206 (1), Tension Head SK 206 (2, kit)



Toothed Belt ZR 206

Dimension : width 10 mm, tooth pitch 5 mm

Construction : 10 Steel-Cord strands (0.32 mm diameter bedded into Polyurethane-Elastomer)

Techn. Data : operating temperature -10° C ... +80° C
short term 120° C
breaking load 1200 N
max. tension 300 N at 4 % elasticity

Weight : 0.022 kg

Accuracy* : typ. ± 0.3 mm/m at 60 N toothed belt tension

In a mounted condition the accuracy can be improved by altering the tension. The stretching characteristic is linear. The coefficient is 0.01 mm / (1 m · 1 N).

Advantages : Unaffected by damp, petrol, oil, fats, hydrosol, uv-rays, ozone etc. Steel-Cord as tensioning strands: constant lengths at specified load, no additional stretching.

(toothed belt for -30° C on request)

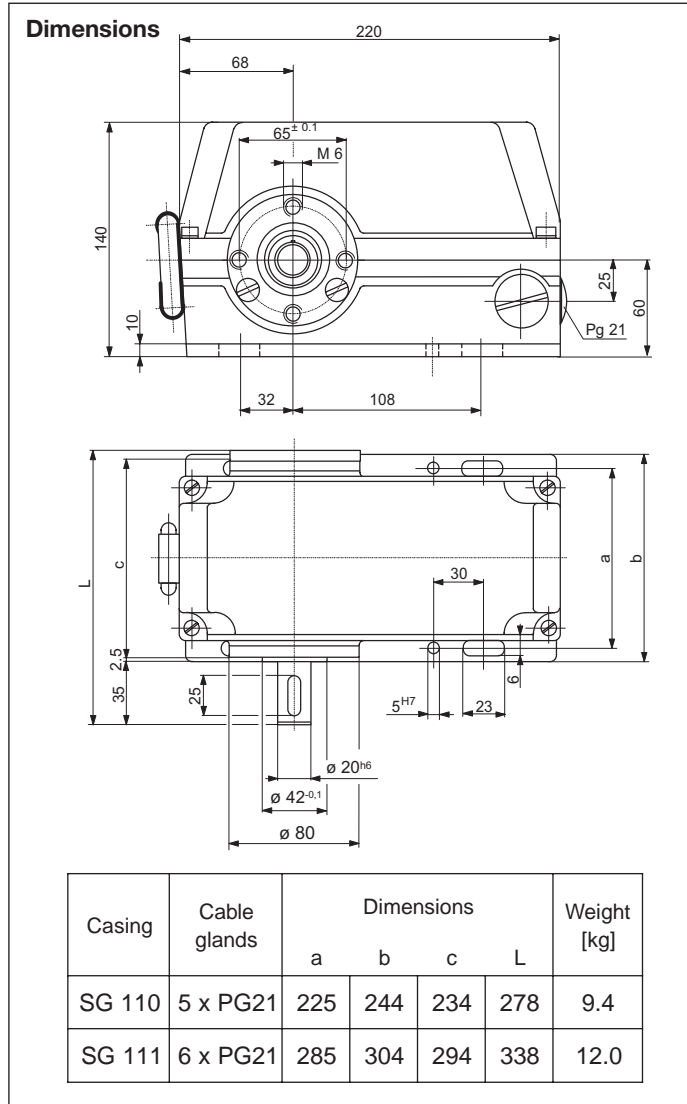
Protective casing SG 110/111

This casing protects rotary encoders GEL 207/260 or absolute encoders GEL 152/153 against high mechanical stress and environmental conditions.

Attention:

The shaft of rotary encoder GEL 207 must have a diameter of 12 mm

- Material: non-ferrous metal, seawater-resistant
- Type of protection: IP 65
- Seals: oil- and petrol-resistant
- Painting: hammer-finish green RAL 6011



Type code SG 150

SG 150	-	-	-	Type of flange	
				1	2
				Type of casing 1 (length of casing $l = 230$ mm) casing without intermediate plug for absolute encoders with direct cable outlet and mechanical zero adjust 2 (length of casing $l = 230$ mm) casing with intermediate plug for absolute encoders with parallel interface and mechanical zero adjust 3 (length of casing $l = 200$ mm) casing with intermediate plug for absolute encoders with SSI interface without mechanical zero adjust 4 (length of casing $l = 230$ mm) casing with intermediate plug for absolute encoders with parallel interface without mechanical zero adjust	

Protective casing SG 150/208

SG 150 for absolute encoders

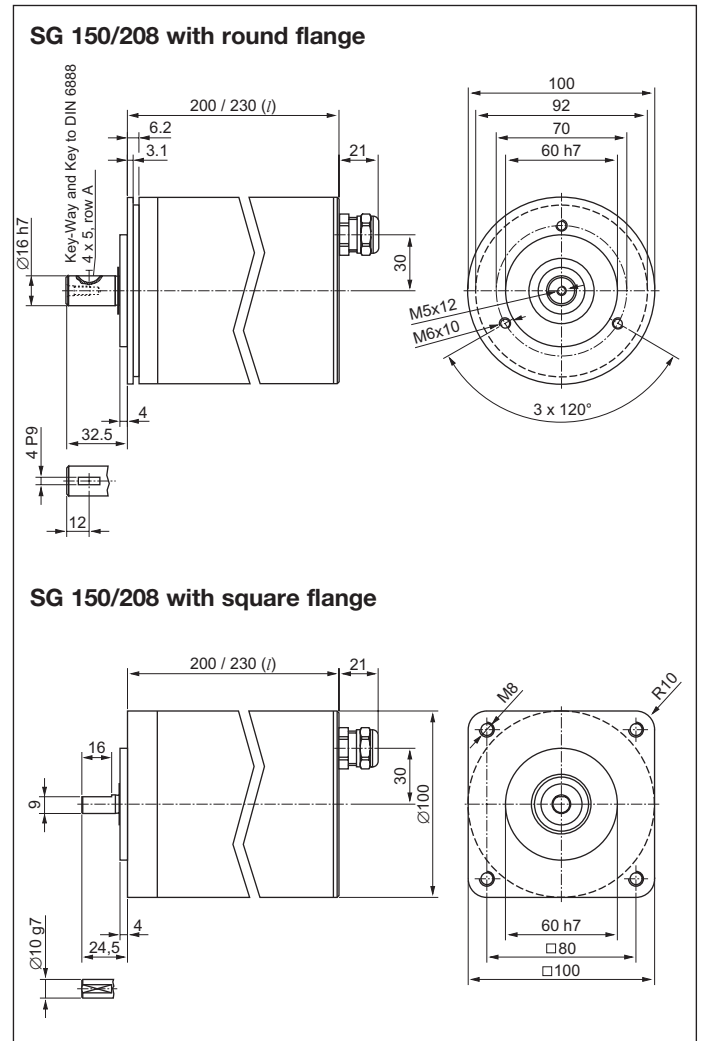
- GEL 152/153 single- or multiturn with parallel or SSI output (cf. Technical Information on encoders, absolute encoder GEL 15X, SSI or parallel interface)
- GEL 152 F for remote programming by PC (cf. Technical Information on encoders, absolute encoder GEL 15X, PC-programmable)

SG 208 for incremental rotary encoders

- GEL 208 (cf. Technical Information on incremental encoders GEL 207... 219)

Material: anodized aluminium, wall thickness 5 mm

Type of protection: IP 68



Type code SG 208

SG 208	-	-	-	Type of flange	
				1	2
				Type of casing 1 (length of casing $l = 230$ mm) casing without intermediate plug for absolute encoders with direct cable outlet and mechanical zero adjust 2 (length of casing $l = 230$ mm) casing with intermediate plug for absolute encoders with parallel interface and mechanical zero adjust 3 (length of casing $l = 200$ mm) casing with intermediate plug for absolute encoders with SSI interface without mechanical zero adjust 4 (length of casing $l = 230$ mm) casing with intermediate plug for absolute encoders with parallel interface without mechanical zero adjust	
				Outlet (length of casing $l = 200$ mm) 1 axial cable 2 axial connector 6 or 12 pole	

Subject to technical modifications and typographical errors. For the latest version please visit our web site : www.lenord.de.