

Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	70
Ratio (i=)		20
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	2.2
Service factor		1.3
Rated Power P1	[kW]	2.88

Output data

Gear unit **F RS 85 PC 20 100 B14 AC 32 B3**

Type		RS - Worm speed reducers
Input type		F (Elastic coupling)
Size		85
Ratio (i=)		20
Input flange		B14
Mounting position		B3
Input speed	[rpm]	1400
Output speed	[rpm]	70
Rated output torque	[Nm]	246.12
Service Factor		1.3
Efficiency		0.82
Inertia moment	[kgm ²]	0.000357

Gear unit configuration

Output shaft	Hollow output shaft
Fixing	Shaft mounting
Version	PC

Output radial and axial loads

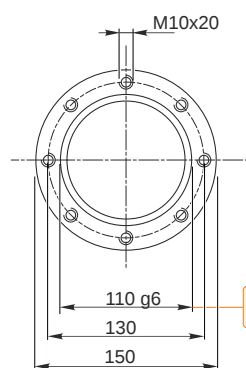
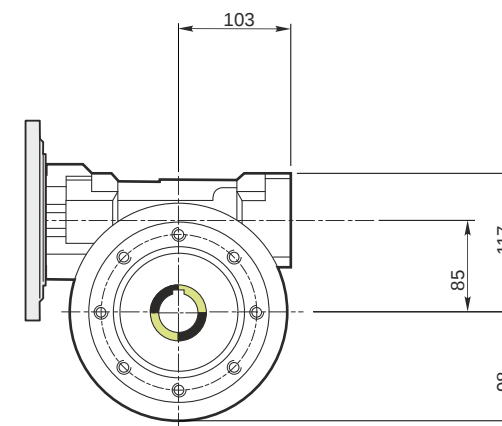
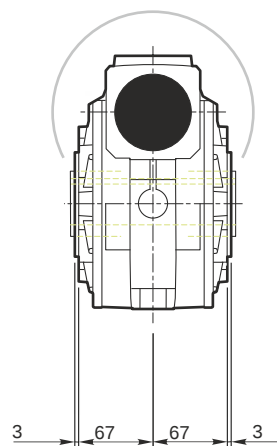
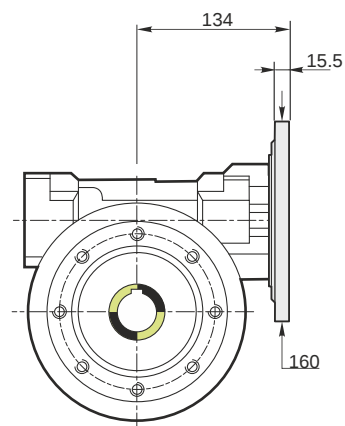
Ball bearings output radial load	[N]	4700
Taper bearings output radial load	[N]	6300
Ball bearings output axial load	[N]	940
Taper bearings output axial load	[N]	1260

Accessories

Hollow output shaft	AC 32
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Electric motor coupling

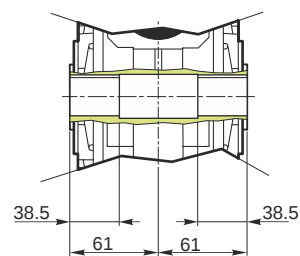
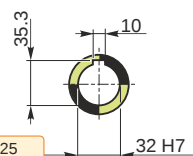
Size		100 A4
Poles n.		4
Power	[kW]	2.2

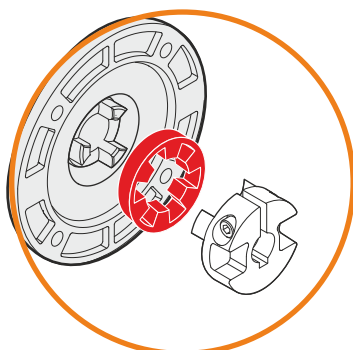
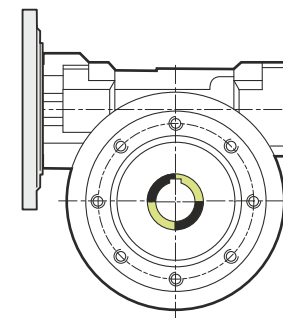
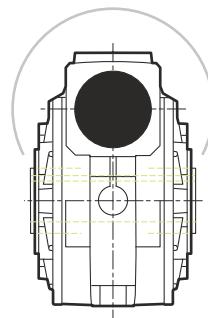
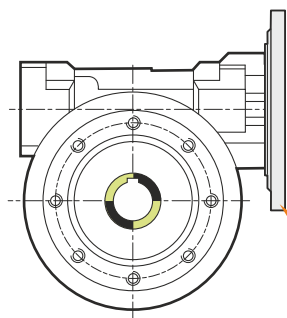


109.988
109.966

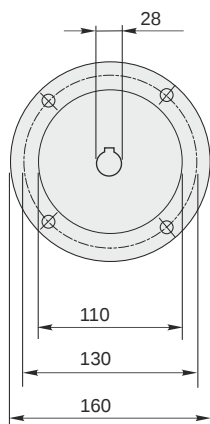
32.025
32.000

Hollow output shaft



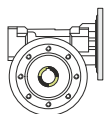


This gear unit is provided with an elastic coupling motor fitting

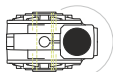


Mounting positions

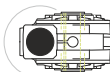
B3



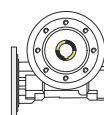
B6



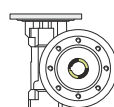
B7



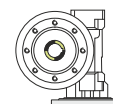
B8



V5



V6



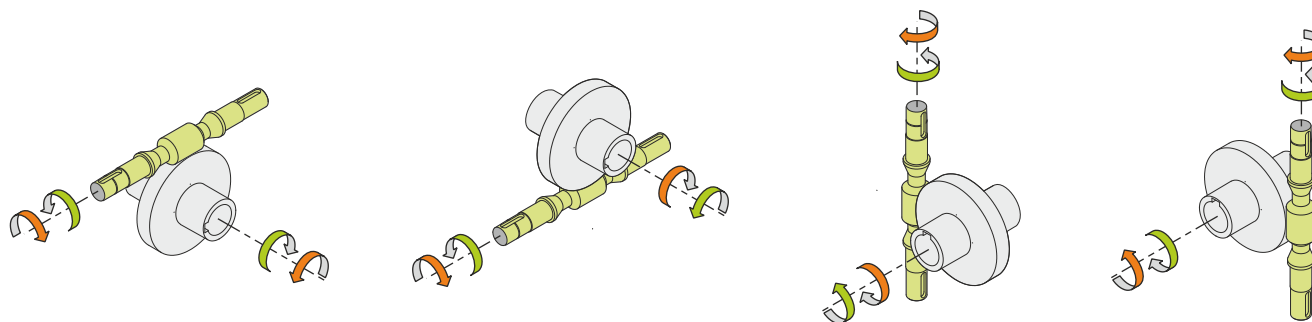
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg] 13.5

Gearing data

Axial module	3.4
Number of starts	2
Lead angle	11° 18'
Pressure angle	20°

Backdriving

Variable static self-locking
Quick back-driving in case of vibrations
Dynamic back-driving