

Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	25
Ratio (i=)		56
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	1.1
Service factor		1.1
Rated Power P1	[kW]	1.17

Output data

Gear unit **F RT 85 B3 56 90 B14 AC 32**

Type		RT - Worm speed reducers
Input type		F (Elastic coupling)
Size		85
Ratio (i=)		56
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	25
Rated output torque	[Nm]	285.74
Service Factor		1.1
Efficiency		0.68
Inertia moment	[kgm ²]	0.000341

Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3

Output radial and axial loads

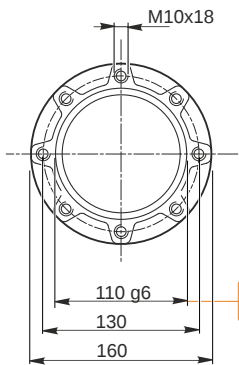
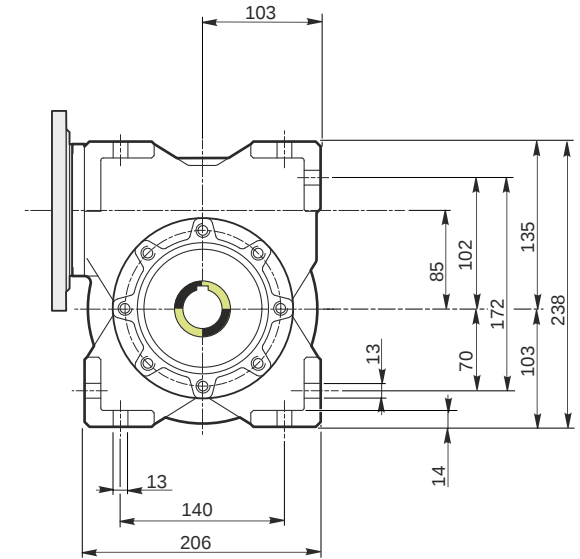
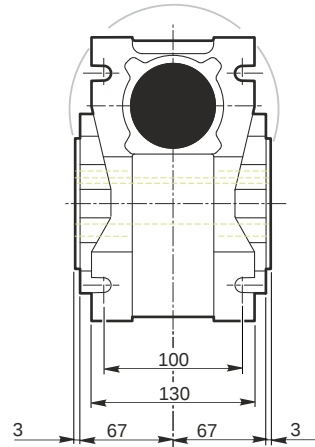
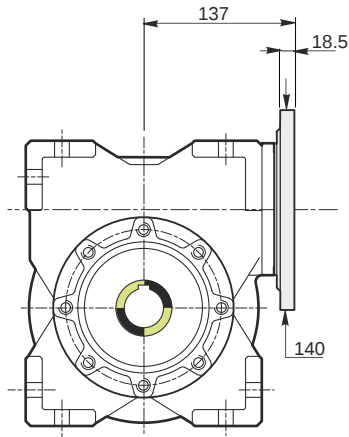
Ball bearings output radial load	[N]	6600
Taper bearings output radial load	[N]	8700
Ball bearings output axial load	[N]	1320
Taper bearings output axial load	[N]	1740

Accessories

Hollow output shaft		AC 32
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Electric motor coupling

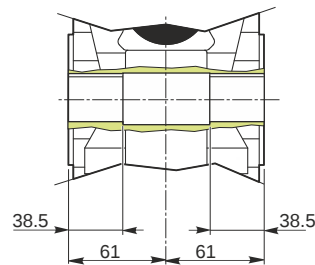
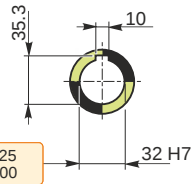
Size		90 S4
Poles n.		4
Power	[kW]	1.1

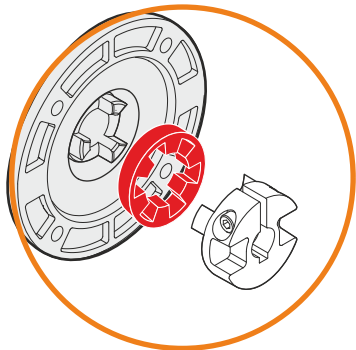
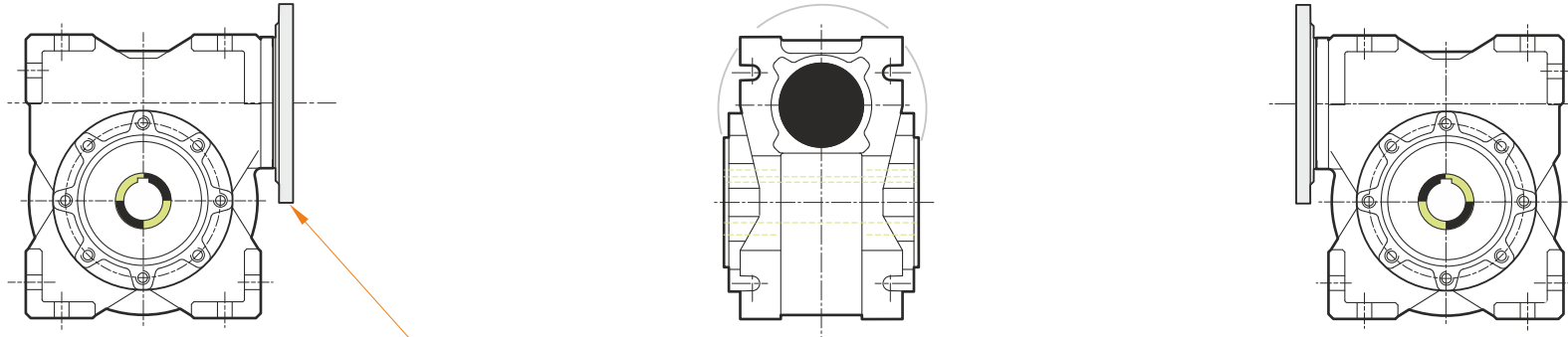


Hollow output shaft

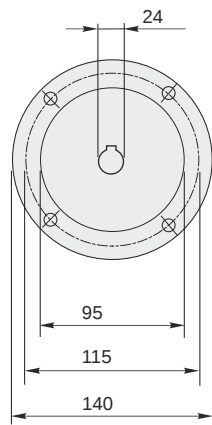
109.988
109.966

32.025
32.000



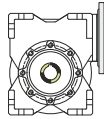


This gear unit is provided with an elastic coupling motor fitting

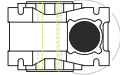


Mounting positions

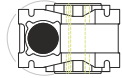
B3



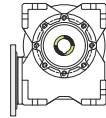
B6



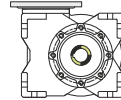
B7



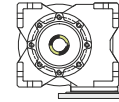
B8



V5



V6



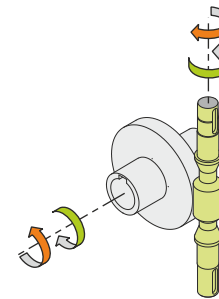
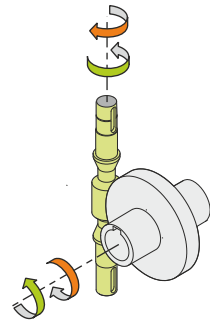
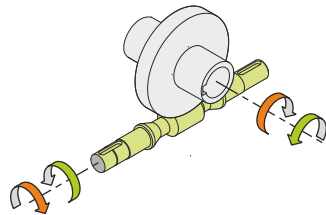
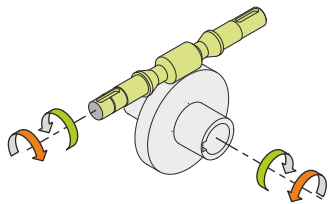
0.6



← Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg] 13.5

Gearing data

Axial module 2.5
Number of starts 1
Lead angle 4° 45'
Pressure angle 20°

Backdriving

Static self-locking
Slow back-driving in case of vibrations
Low dynamic back-driving