

Input data

System of measurement		Metric
Input type		Coupling for electric motor
Input speed	[rpm]	1400
Output speed	[rpm]	50
Ratio (i=)		28
Frequency	[Hz]	50
Input options		IEC
Requested input power	[kW]	3
Service factor		1.5
Rated Power P1	[kW]	4.42

Output data

Gear unit F RT 110 B3 28 100 B14 AC 42

Type		RT - Worm speed reducers
Input type		F
Size		110
Ratio (i=)		28
Input flange		B14
Input speed	[rpm]	1400
Output speed	[rpm]	50
Rated output torque	[Nm]	435.48
Service Factor		1.5
Efficiency		0.76
Inertia moment	[kgm ²]	0.001713

Gear unit configuration

Output shaft		Hollow output shaft
Fixing		Universal
Version		B3

Output radial and axial loads

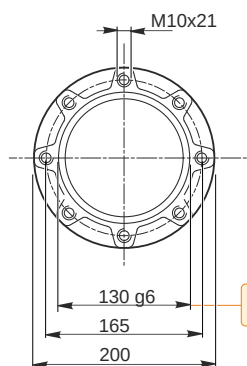
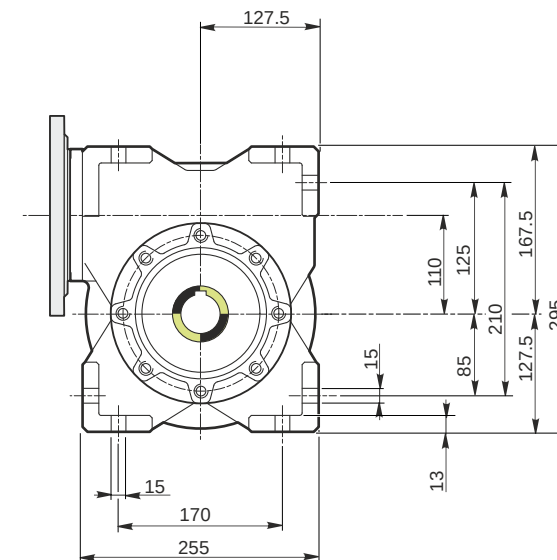
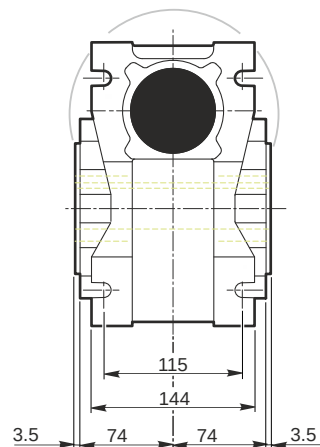
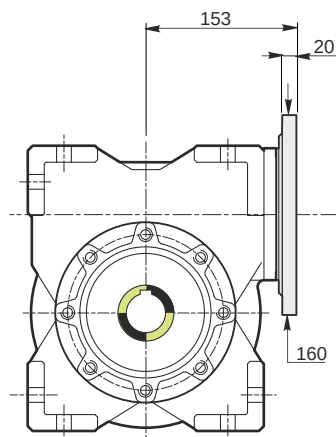
Ball bearings output radial load	[N]	5900
Taper bearings output radial load	[N]	8000
Ball bearings output axial load	[N]	1180
Taper bearings output axial load	[N]	1600

Accessories

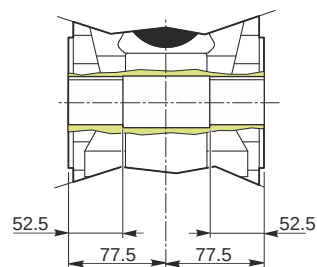
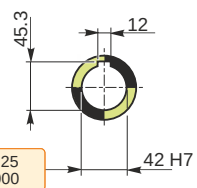
Hollow output shaft		AC 42
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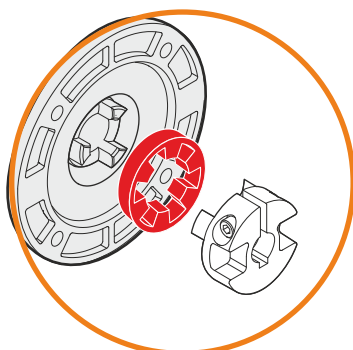
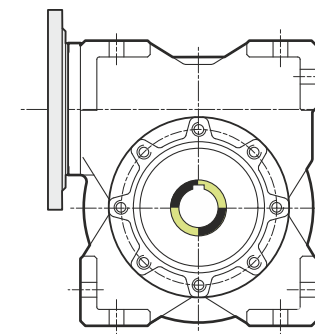
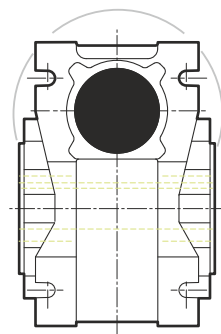
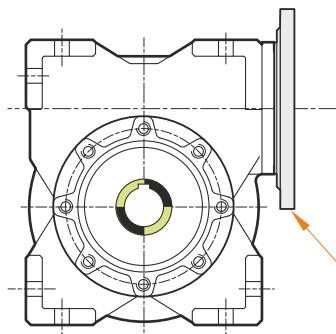
Electric motor coupling

Size		100 B4
Poles n.		4
Power	[kW]	3

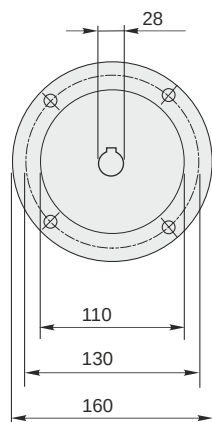


Hollow output shaft



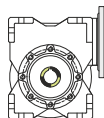


This gear unit is provided with an elastic coupling motor fitting

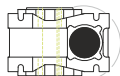


Mounting positions

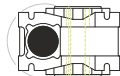
B3



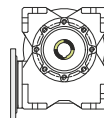
B6



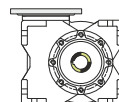
B7



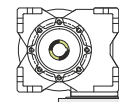
B8



V5



V6



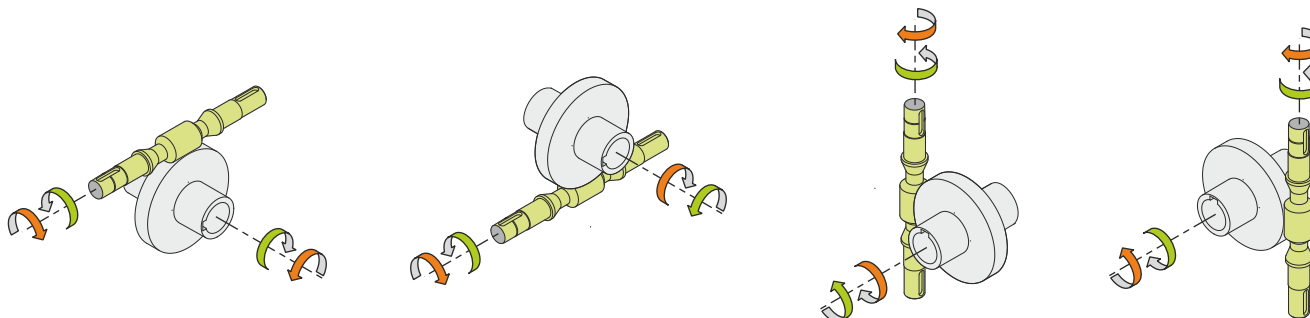
1.5



Oil quantity [litres]

Lubricant type: Long life synthetic oil ISO VG320

Direction of rotation



Weight

Gear unit [kg] 39

Gearing data

Axial module 6.1
Number of starts 1
Lead angle 7° 04'
Pressure angle 20°

Backdriving

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

F RT 110 B3 28 100 B14 AC 42