

Crown gearheads.

EtaCrown® 52



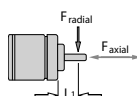
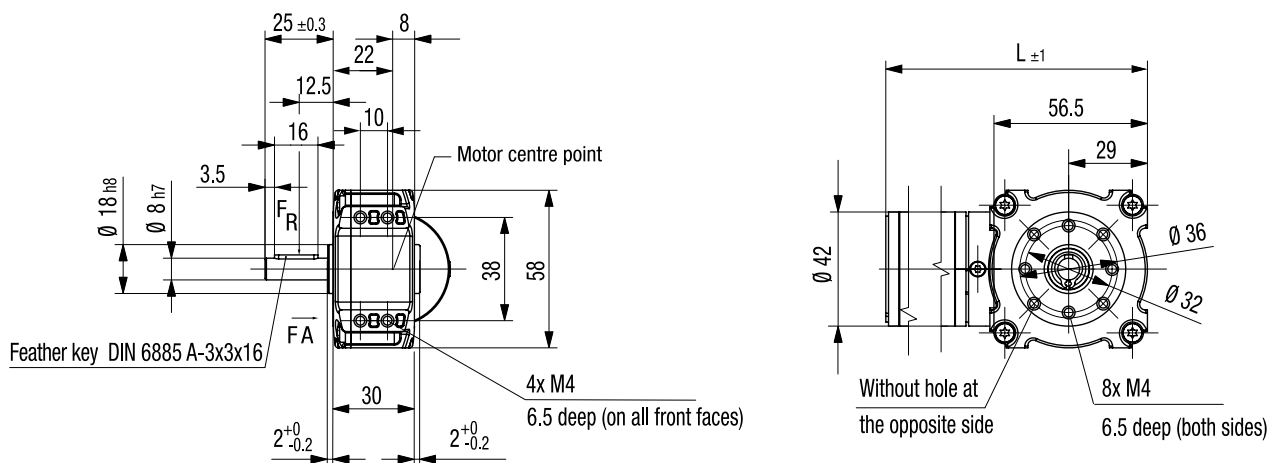
Image of 2-stage gearhead

- Maximum safety in design and operation, as well as optimal vandalism protection; no automatic lock due to high efficiency of the crown wheel technology
- Space-saving installation due to zero offset axle and symmetrical structure
- Flexible application possibilities with various optional shaft outlets and available shaft geometries
- Wide reduction range by means of upstream / downstream planetary stage
- High radial loads due to double ball bearing in the output shaft

Nominal data								
Gearheads		EtaCrown® 52.1			EtaCrown® 52.2			
Reduction ratio		4.10	6.70	10.1	21.2	33.3	60.0	113
No. of stages		1			2			
Efficiency		0.90			0.81			
Max. input speed (n _i)	rpm	6 000			6 000			
Rated output torque (M _{ab})	Nm	0.21	0.34	0.52	0.98	1.54	2.77	3.48
Short-term torque (M _{max})	Nm	0.53	0.85	1.30	2.45	3.85	6.93	8.70
Gear play	°	0.55 ... 1.1			0.55 ... 1.1			
Permissible operating temperature (T _U)	°C	-20 ... +80			-20 ... +80			
Operating mode		S1			S1			
Protection class		IP 50			IP 50			
Weight	kg	0.40			0.65			
Shaft load radial / axial	N	300 / 150	350 / 150	400 / 150	500 / 150	570 / 150	720 / 150	770 / 150
Service life	h	5 000			5 000			
Lubrication		Maintenance-free grease lubrication for life						
Installation position		any						
Subject to alterations								
Preferred type: ready to ship in 48 hours		on request						

Technical drawing

Image of 1-stage gearhead with left shaft end (W05) / All dimensions in mm



F_{axial} 150 N
 F_{radial} see table
 $L1$ 12.5 mm

Permissible shaft load at nominal speed and life expectancy L_{10} (nominal operation) and operating factor $C_g = 1$ (see page 82) of 5 000 h (at T_o 40°C).

Shaft end, right (W05) (standard)	Shaft end, left (W06)	Shaft end, both sides (W07)

Length of the possible motor / gearhead combinations

Motor / gearhead		L - 1-stage	L - 2-stage
ECI-42.20-K1-E52	mm	160	189
ECI-42.40-K1-E52	mm	180	209

Subject to alterations