

Crown gearheads.

EtaCrown®Plus 42



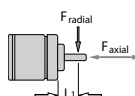
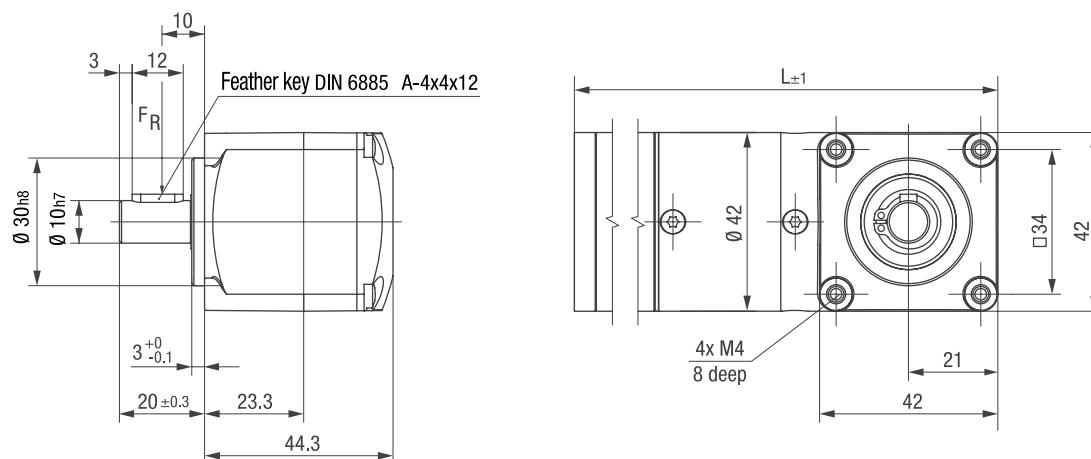
Image of 3-stage gearhead

- Compact design due to combination of the crown wheel and planetary stage in one housing
- No automatic lock due to high efficiency of the crown wheel technology
- High torques by using 5 straight toothed planetary gears made of case-hardened sintered steel in the integrated planetary gear stage
- Wide reduction range thanks to possibility of an upstream planetary stage
- Improved quiet operation thanks to the optimized design of the crown wheel stage when using an upstream helical planetary gear stage made of plastic with optimized sliding properties

Nominal data					
Gearheads		EtaCrown®Plus 42.3			
Reduction ratio		54.0	84.8	153	289
No. of stages		3			
Efficiency		0.73			
Max. input speed (n _i)	rpm	6 000			
Rated output torque (M _{ab})	Nm	10.0	10.0	6.70	8.40
Short-term torque (M _{max})	Nm	25.0	25.0	16.8	21.0
Gear play	°	0.7 ... 1.2			
Permissible operating temperature (T _ü)	°C	-20 ... +80			
Operating mode		S1			
Protection class		IP 50			
Weight	kg	0.45			
Shaft load radial / axial	N	300 / 200			
Service life	h	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 3-stage gearhead / All dimensions in mm



F_{axial} 200 N
 F_{radial} 300 N
 L_1 10 mm

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

Length of the possible motor / gearhead combinations

Motor / gearhead		L - 3-stage
ECI-42.20-K1-EP42	mm	174
ECI-42.40-K1-EP42	mm	194
Subject to alterations		