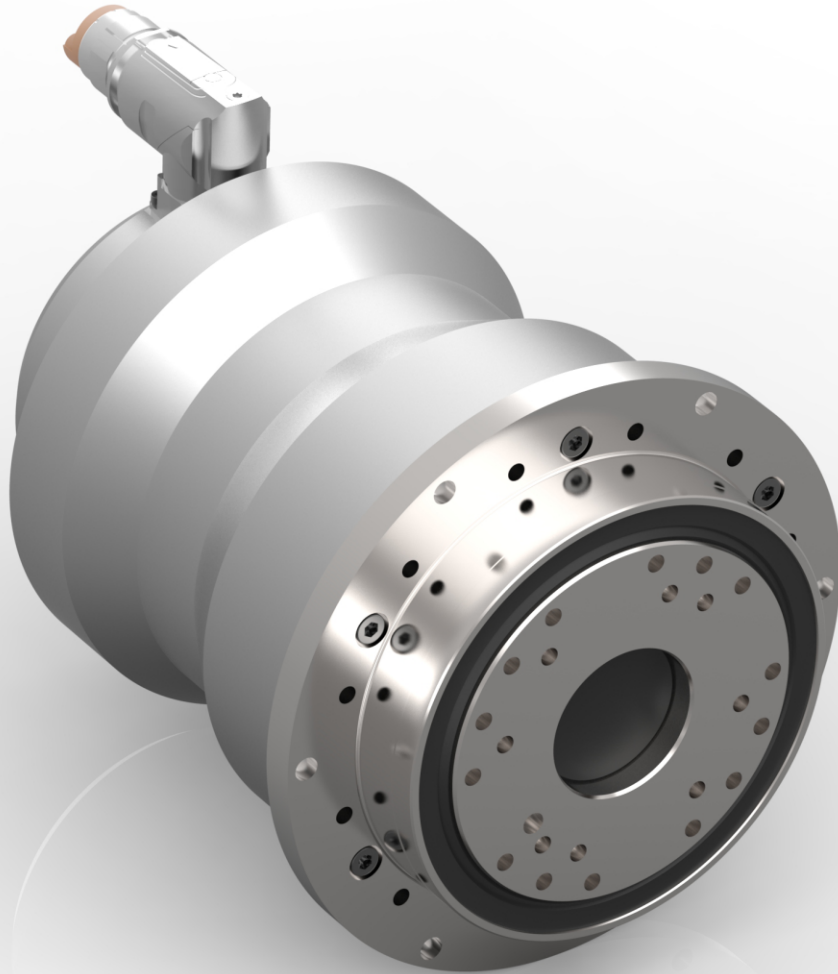


# Cycloid Gear Motors DC1F - Series



Zykloidgetriebe  
Cycloid Gearboxes



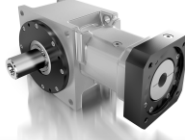
Planetengetriebe  
Planetary Gearboxes



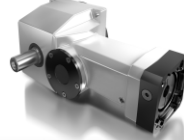
Kegelrad-Planetengetriebe  
Bevel Planetary Gearboxes



Kegelradgetriebe  
Bevel Gearboxes



Hypoidgetriebe  
Hypoid Gearboxes



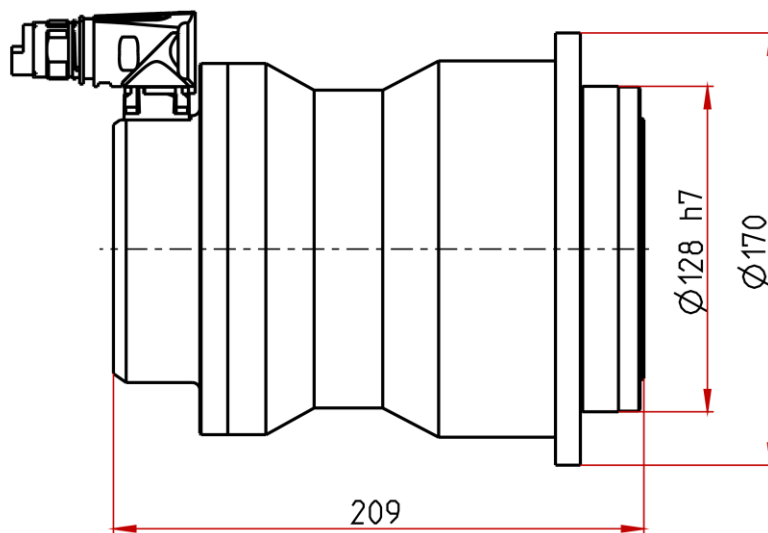
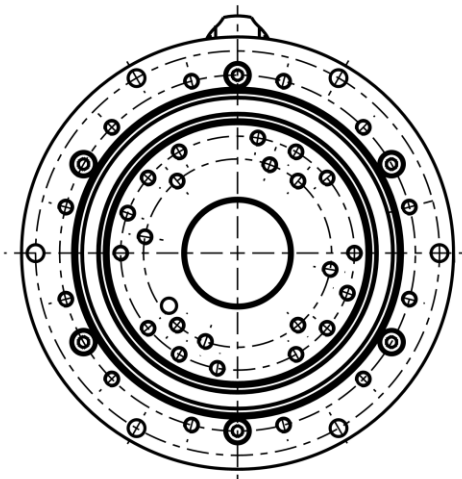
Hypoid-Stirnradgetriebe  
Hypoid Helical Gearboxes



Getriebemotoren  
Gear Motors



Verzahnungsentwicklung  
Gear Development



### Performance data gearbox

	Abbr.	Unit	DC1F280
Ratio	i		33 / 57 / 69 115 / 125 139 / 175
Rated output torque (S1)	$T_{2N}$	Nm	280
Max. acceleration torque (S3)	$T_{2B}$	Nm	700
Emergency stop torque	$T_{2Not}$	Nm	1400
Lost motion	LM	arcmin	<1
Rated input speed (S1)	$n_{1N}$	rpm	2000
Max. input speed (S3)	$n_{1max}$	rpm	4500
Max. permissible radial load (output)	$F_{R2max}$	N	11500
Max. permissible axial load (output)	$F_{A2max}$	N	17000

### Performance data motor

	Abbr.	Unit	DC1F280
Max. current	$I_{max}$	A	16
DC-link voltage	$U_{DC}$	V	560
Motor torque constant	$k_{TM}$	Nm/A	0,98
Voltage constant	$k_{EM}$	V/1000min <sup>-1</sup>	63
Encoder protocols			EnDat 2.1 / 2.2 Hiperface Hiperface DSL SSI / BISS Resolver DRIVE-CLiQ

The DC1F series from EPPINGER combines cycloid gearboxes with synchronous servomotors to form very compact gear motor units. The advantages of our cycloid gearboxes such as the enormous power density and high overload capacity and the perfectly matched synchronous motors make this units fit into the smallest installation space. Different versions regarding voltage, motor feedback system, brake and cables or connectors are available. Due to high stiffness and low backlashes, DC1F gear motors are particularly suitable for use in robotics, machine tools and automation.

