

ARTUS

CYCLOIDAL GEAR REDUCERS

CGR-FH Hollow Shaft Series | Customer Selection Table

Series	Model	Available Axis Ratios	Available Shell Ratios	Rated Output Torque (Nm)	Max. Acceleration Torque (Nm)	Permissible Torque (Nm)	Rated Input Speed (rpm)	Max. Input Speed (rpm)	Tilting Stiffness (Nm/arcmin)	Torsional Stiffness (Nm/arcmin)	Max. Axial Force (kN)	Max. Radial Force (kN)	Weight (kg)
CGR-FH Hollow Shaft	CGR-FH-017	21 / 31 / 51 / 81 / 121	22 / 32 / 52 / 82 / 122	40–80	80–160	120–240	3000	6000	110	16	4	2.8	1.13
CGR-FH Hollow Shaft	CGR-FH-025	25 / 31 / 51 / 81 / 101	26 / 32 / 52 / 82 / 102	70–130	140–260	210–390	3000	6000	110	16	8.5	6.5	2.65

Note: Axis ratio, shell ratio, and torque values are preserved as supplied. Detailed ratio-to-torque mapping is listed on each model sheet.

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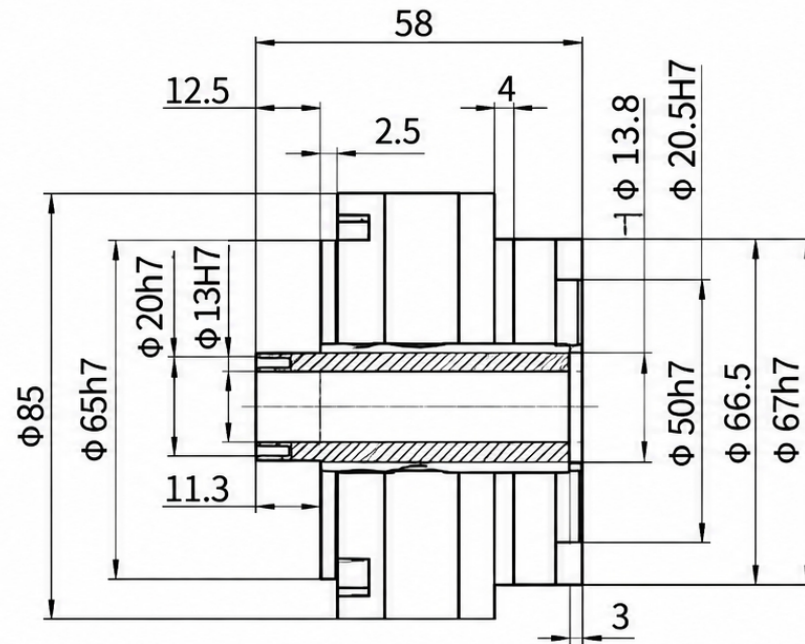
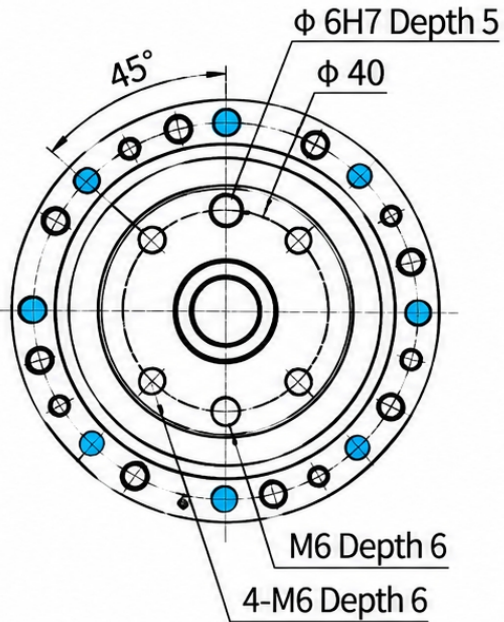
CGR-FH Hollow Shaft Series | Technical Specifications

CGR-FH-017 | Hollow Shaft Cycloidal Gear Reducer

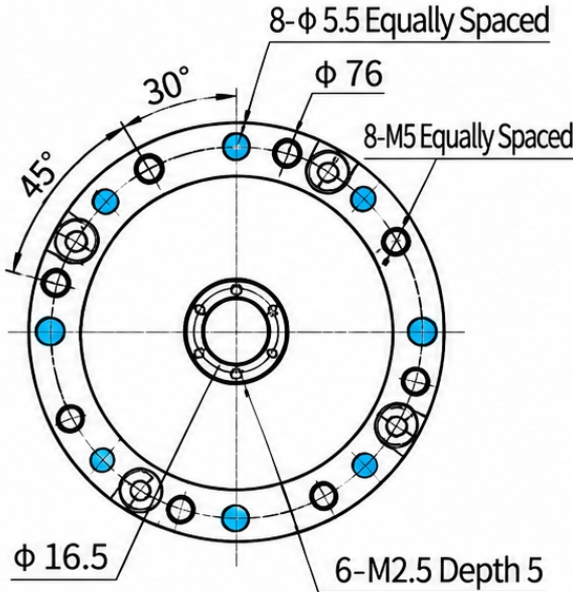
Model No.	Axis Ratio	Shell Ratio	Rated Output Torque (Nm)	Max. Acceleration Torque (Nm)	Permissible Torque (Nm)	Max. No-load Moment (Nm)
CGR-FH-017-R21	21	22	40	80	120	0.5
CGR-FH-017-R31	31	32	50	100	150	0.5
CGR-FH-017-R51	51	52	60	120	180	0.6
CGR-FH-017-R81	81	82	80	160	240	0.6
CGR-FH-017-R121	121	122	80	160	240	0.6

Common Specifications	Unit	Value
Rated Input Speed	rpm	3000
Max. Input Speed	rpm	6000
Tilting Stiffness	Nm/arcmin	110
Torsional Stiffness	Nm/arcmin	16
Max. Axial Force	kN	4
Max. Radial Force	kN	2.8
Average Angular Play	arcsec	±20
Backlash	arcmin	p0 ≤1; p1 ≤3; p2 ≤5
Moment of Inertia	10 ⁻⁶ kg·m²	6.5
Weight	kg	1.13

Output Side



Input Side



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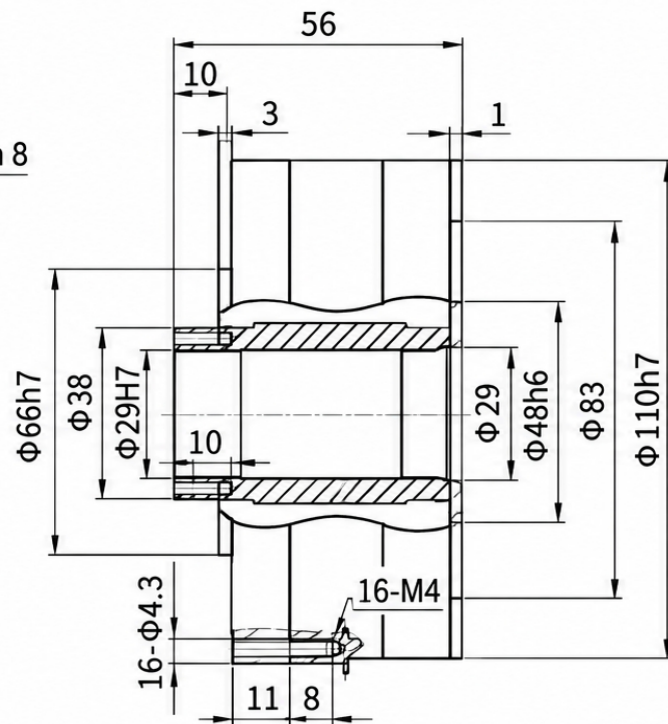
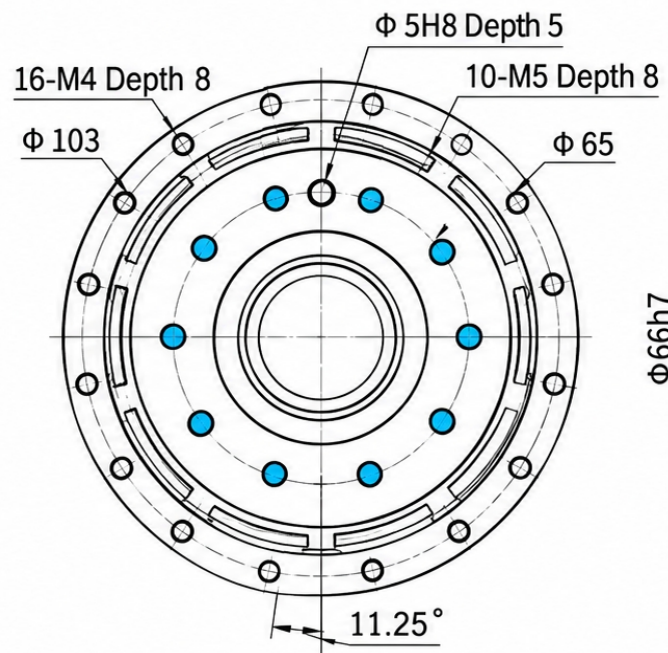
CGR-FH Hollow Shaft Series | Technical Specifications

CGR-FH-025 | Hollow Shaft Cycloidal Gear Reducer

Model No.	Axis Ratio	Shell Ratio	Rated Output Torque (Nm)	Max. Acceleration Torque (Nm)	Permissible Torque (Nm)	Max. No-load Moment (Nm)
CGR-FH-025-R25	25	26	70	140	210	0.6
CGR-FH-025-R31	31	32	80	160	240	0.62
CGR-FH-025-R51	51	52	95	190	285	0.68
CGR-FH-025-R81	81	82	110	220	330	0.7
CGR-FH-025-R101	101	102	130	260	390	0.7

Common Specifications	Unit	Value
Rated Input Speed	rpm	3000
Max. Input Speed	rpm	6000
Tilting Stiffness	Nm/arcmin	110
Torsional Stiffness	Nm/arcmin	16
Max. Axial Force	kN	8.5
Max. Radial Force	kN	6.5
Average Angular Play	arcsec	±20
Backlash	arcmin	p0 ≤1; p1 ≤3; p2 ≤5
Moment of Inertia	10 ⁻⁶ kg·m²	18
Weight	kg	2.65

Output Side



Input Side

