CYK – cycloidal gear boxes

Solid and Hollow Shaft Designs

Cycloidal gear boxes

Planetary gear boxes

Bevel gear boxes

Planetary bevel gear boxes

Hypoid gear boxes

Gear technology

EPPINGER
PRECISION GEAR SOLUTIONS

EPPINGER cycloidal gear boxes

**Eppinger develops and manufactures cycloidal gear boxes to round off the product portfolio.
In drive technology, especially in the field of tool machinery, automation and robotics, these compact designed, high transmission precision gear boxes are used especially to meet the highest demands for stiffness, performance and efficiency. In addition to the constantly extended standard range, these cycloidal precision gear boxes can be adapted to customer requirements upon request.**

FEATURES AND BENEFITS OF THE CYCLOIDAL GEAR BOX SERIES

- high overload capacity
- integrated support bearings
- < 1 arcmin gear play
- high torsional stiffness
- compact design, saves space
- lower costs by reducing the number of components required
- high levels of reliability and uptime
- precise individual components ensure high efficiency
- extended service life through minimum wear

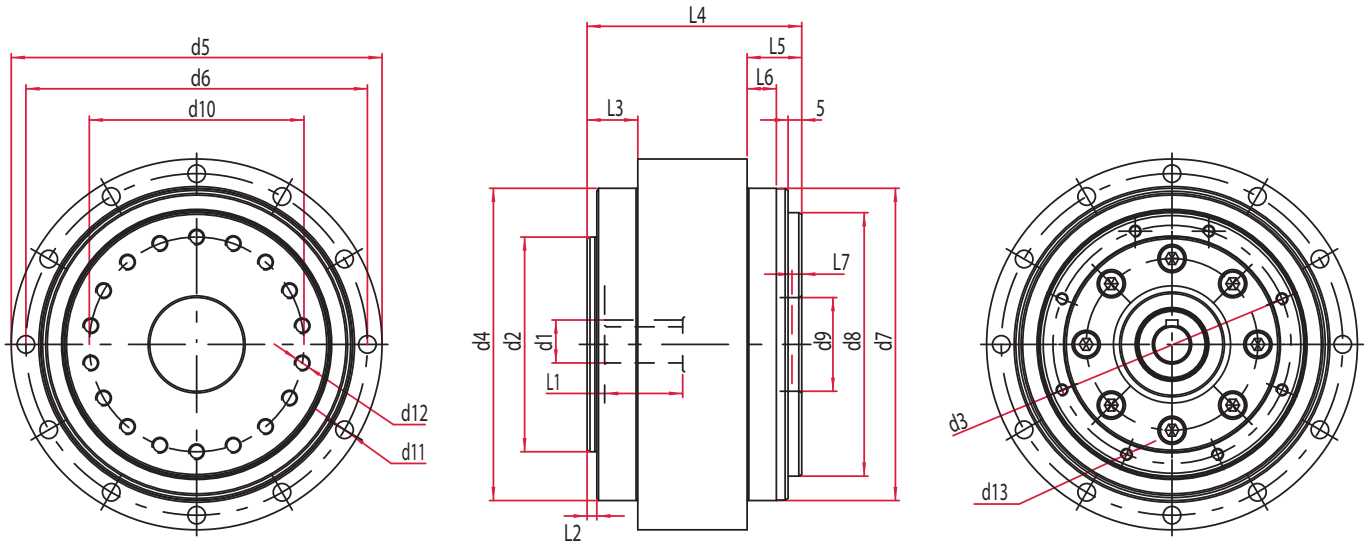
Ordering code

	Type of gear box	Size	Ratio
Example for ordering: CYK130 63:1	CYK	080 130 280 500 900 1400	i = 57 : 1 to i = 175 : 1 (see table performance data column i)
Upon request: motor flange, different shaft dimensions, customized solutions, fittings,...			
Subject to change in design. We recommend technical clarification prior to ordering.			

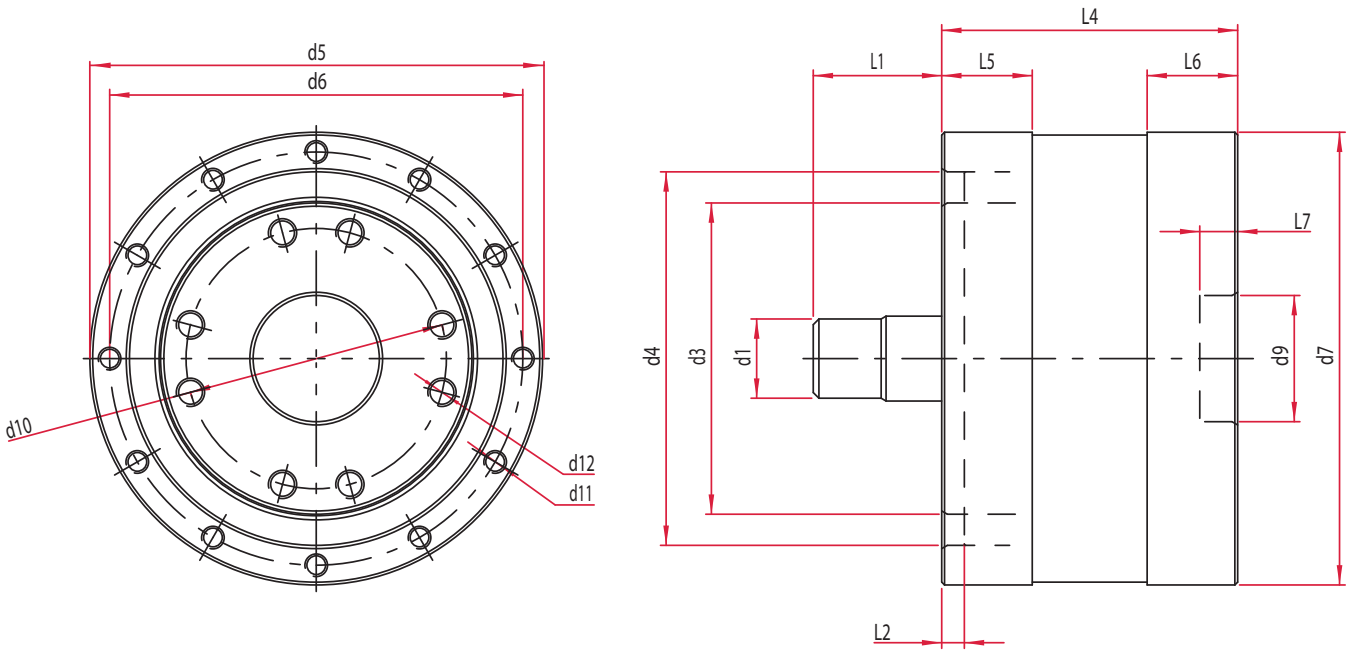
Our product range includes besides **bevel-, hypoid-, planetary- and cycloidal gear boxes** also **special customized gear boxes and high precision gear technology**. With our **gear motors and integrated combinations of our gear box series** we extended our portfolio. The **compact and the mono-bloc design** as well as our maximum **gear quality** makes our solutions **unique**.

Performance data

	Abbre-viation	Unit	Ratio	CYK080	CYK130	CYK280	CYK500	CYK900	CYK1400
Nominal output drive torque			i = 57 : 1	-	-	-	500	-	-
			i = 63 : 1	80	-	280	-	900	-
			i = 89 : 1	80	130	-	-	-	-
			i = 105 : 1	-	-	-	500	-	-
	T2N	Nm	i = 119 : 1	-	130	280	-	-	-
			i = 125 : 1	-	-	-	500	900	1400
			i = 141 : 1	-	-	280	500	-	-
			i = 169 : 1	-	-	-	-	900	-
			i = 175 : 1	-	-	280	-	-	1400
Acceleration and braking torque	T2max.	Nm	All ratios	2 x Nominal output drive torque					
Mean load-free starting torque	T1A	Nm		0.1 - 1 Nm, depending on size and ratio					
Nominal speed	n1N	rpm		2000	2000	2000	2000	2000	2000
Max. nominal speed	n1 max	rpm		4000	4500	4500	4000	4000	2500
Max. lost motion		arcmin		<1.5	<1.0	<1.0	<1.0	<1.0	<1.0
Max. radial load at output	FR max	N		4700	9000	12000	20000	22000	23000
Max. axial load at output	FA max	N		7000	13000	18000	28000	32000	36000
Service life	Lh	h		6000					
Lubrication				Grease / oil					
Minimum operating temperature	ϑmin	°C		-25					
Maximum operating temperature	ϑmax	°C		90					
Protection class				IP54					
Installation position				arbitrary					
Motor flange				optional					



CYK130 to CYK1400



CYK080

Dimensions (in mm)

	CYK080	CYK130	CYK280	CYK500	CYK900	CYK1400
d1	14 h7	14 H7	19 H7	19 H7	24 H7	28 H7
d2	-	-	-	110 h7	-	-
d3	55	-	-	122	-	-
d4	66 H8	103	128	160	187	202
d5	80	123	150	190	225	238
d6	73	113	140	175	206	220
d7	66 h7	103 h7	128 h7	160 h7	187 h7	202 h7
d8	-	80 h7	103 h7	135 h7	155 h7	179 h7
d9	22.3 H6	32 H7	42 H7	48 H7	52 H7	110 H7
d10	46	69	92	110	129	140
d11	M4	5.5	6.8	9	11	11
d12	M5	M6	M6	M8	M12	M10
d13	-	-	-	M6	-	-
L1	22.7	-	-	40	-	-
L2	4	-	-	4	-	-
L3	-	-	-	12	-	-
L4	52	-	-	118	-	-
L5	16	28	25	28	43	43.5
L6	16	10	15	15	20	20
L7	4.2	2	2	5	6	11

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