

TCBR Series - Optimization of Performance and Cost



TB

TBR

TD

TDR

TE

TER

TF

TCB

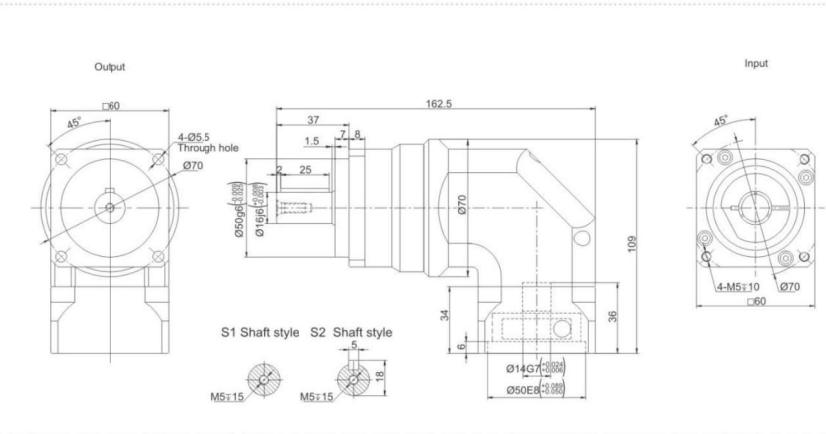
TCBR

TCE

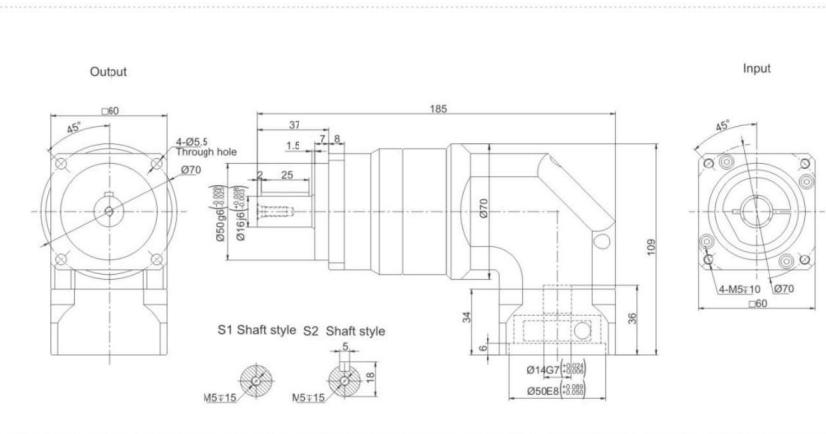
TM

TCBR060 Series

TCBR060 One Stage



TCBR060 Two Stage



Performance Data

TCBR series planetary reducer has modular design compact structure with high reliability and efficiency. It is a perfect optimization of both performance and cost.

TCBR060		One Stage							Two Stage						
Speed Ratio	i	3	4	5	6	7	8	10	12	14	16	20	25	30	40
Nominal Output Torque	T_1 Nm	35	45	55	50	46	43	40	50	40	43	40	55	50	46
Emergency Stop Torque	T_2 Nm														
Nominal Input Speed	S_1 rpm	3000							3000						
Maximum Input Speed	S_2 rpm	6000							6000						
Maximum Output Torque	T_4 Nm	$T_1 \times 3 \times 60\%$							$T_1 \times 3 \times 60\%$						
Maximum Radial Force	F_a N	1450							1450						
Maximum Axial Force	F_b N	724							724						
Torsional Rigidity	— Nm/arcmin	6							6						
Efficiency	η %	≥95							≥92						
Service Life	— h	20000							20000						
Noise	— dB	≤66							≤66						
Weight	— Kg	1.5							2.1						
	P0	-							-						
Backlash	P1 arcmin	≤6							≤9						
	P2	≤8							≤12						
Operating Temperature	— °C	-20~90							-20~90						
Lubrication	—	Synthetic Grease							Synthetic grease						
Protection Class	—	IP65							IP65						
Mounting Position	—	Any Direction							Any Direction						
Moment of Inertia	J kg·cm ²	0.35							0.07						

Notes:

- Speed ratio (i=Sin/Sout)
- When the output speed is 100 rpm, it acts on the center of the output shaft.
- For continuous operation, the service life is no less than 10,000 hours.
- The noise value was measured based on the input rotational speed of 3000 rpm, i=10

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.