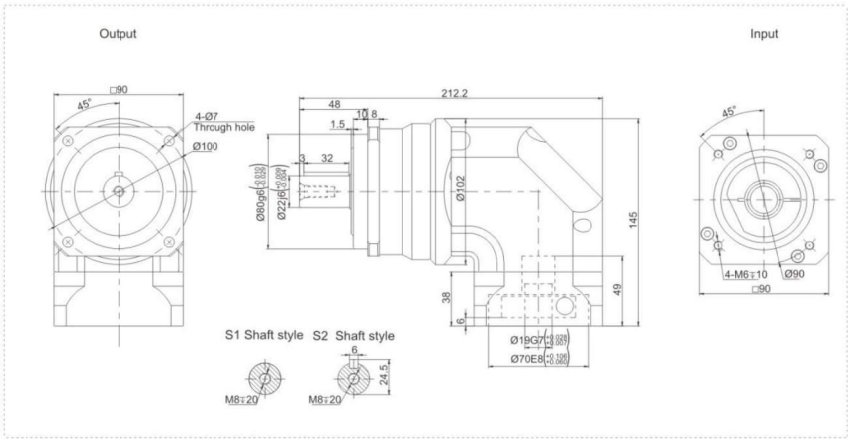


TCBR Series - Optimization of Performance and Cost

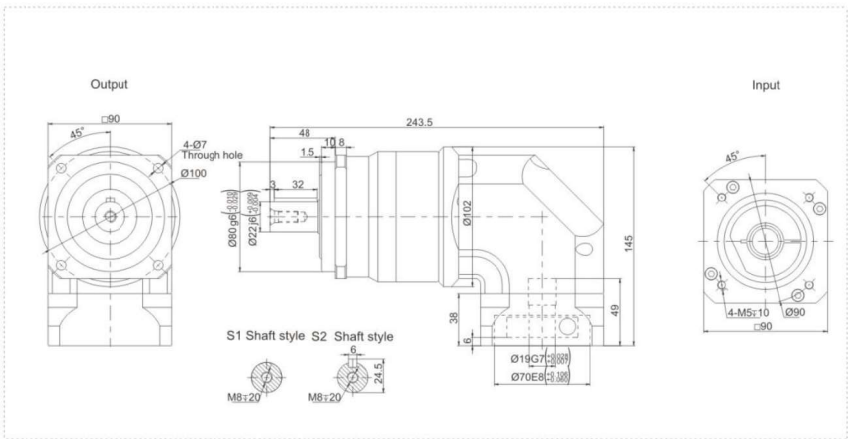


TCBR090 Series

TCBR090 One Stage



TCBR090 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.

TCBR090		One Stage																Two Stage																
Speed Ratio	i	3	4	5	6	7	8	10	12	14	16	20	25	30	35	40	50	60	70	80	100	120	140	160	200									
Nominal Output Torque	T ₁	Nm	85	115	140	140	135	115	97	140	135	115	97	140	140	135	115	140	140	135	115	97	140	135	115	97								
Emergency Stop Torque	T ₂	Nm	T ₁ × 3																T ₁ × 3															
Neminal Input Speed	S ₁	rpm	3000																3000															
Maximum Input Speed	S ₂	rpm	6000																6000															
Maximum Output Torque	T ₂	Nm	T ₁ × 3 × 60%																T ₁ × 3 × 60%															
Maximum Radial Force	F _r	N	3200																3200															
Maximum Axial Force	F _a	N	1600																1600															
Torsional Rigidity	—	Nm/arcmin	14																14															
Efficiency	η	%	≥95																≥92															
Service Life	—	h	20000																20000															
Noise	—	dB	≤67																≤67															
Weight	—	Kg	6.4																7.7															
Backlash	P0		≤4																≤7															
	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	2.25								1.87								0.35								0.31							

Notes:

- Speed ratio (i=Sin/Scout)
- 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.