

TBR Series - High Speed and Precision



Performance Data

The TBR series reducer adopts a standardized flange interface. The installation is convenient and quick. Due to its integral structure design, this high-precision model can operate excellently in many demanding working application.

TBR090		One Stage														Two Stage													
Speed Ratio	i	3	4	5	6	7	8	9	10	12	14	16	20	25	30	35	40	50	60	70	80	100	120	140	160	180	200		
Nominal Output Torque	T_1 Nm	100	120	150	148	140	123	-	102	148	140	123	102	150	148	140	120	150	148	140	123	102	148	140	123	-	102		
Emergency Stop Torque	T_2 Nm	$T_1 \times 3$														$T_1 \times 3$													
Nominal Input Speed	S_1 rpm	4000														4000													
Maximum Input Speed	S_2 rpm	8000														8000													
Maximum Output Torque	T_e Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$													
Maximum Radial Force	F_r N	3250														3250													
Maximum Axial Force	F_a N	1625														1625													
Torsional Rigidity	- Nm/arcmin	14														14													
Efficiency	η %	≥ 95														≥ 92													
Service Life	- h	20000														20000													
Noise	- dB	≤ 65														≤ 65													
Weight	- Kg	6														6.3													
Backlash	P0	≤ 2														≤ 4													
	P1 arcmin	≤ 4														≤ 7													
	P2	≤ 6														≤ 9													
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							2.25							1.87						

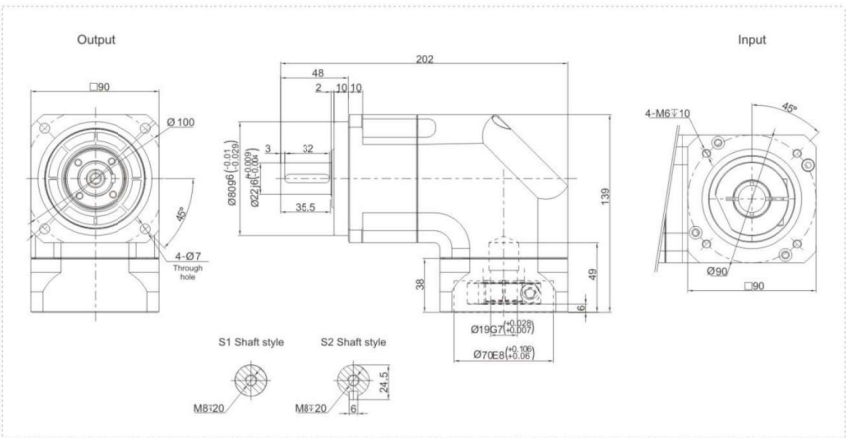
Notes:

- Speed ratio ($i = \text{Sin}/\text{Sout}$)
- 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.

TBR090 Series

TBR090 One Stage



TBR090 Two Stage

