

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.

TBR142		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	340	540	650	600	555	500	-	460	600	555	500	450	650	600	555	500	650	600	555	500	460	600	555	500	-	460		
Emergency Stop Torque	T_2	Nm															$T_1 \times 3$													
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	9400														9400													
Maximum Axial Force	F_b	N	4700														4700													
Torsional Rigidity	-	$\frac{Nm}{arcmin}$	50														50													
Efficiency	η	%	≥ 95														≥ 92													
Service Life	-	h	20000														20000													
Noise	-	dB	≤ 70														≤ 70													
Weight	-	Kg	25.2														21.4													
Backlash	P0		≤ 2														≤ 4													
	P1	arcmin	≤ 4														≤ 7													
	P2		≤ 6														≤ 9													
Operating Temperature	-	$^{\circ}C$	-20-90														-20-90													
Lubrication	-		Synthetic Grease														Synthetic Grease													
Protection Class	-		IP65														IP65													
Mounting Position	-		Any Direction														Any Direction													
Moment of Inertia	J	$kg \cdot cm^2$	23.4							21.8							6.84							6.25						

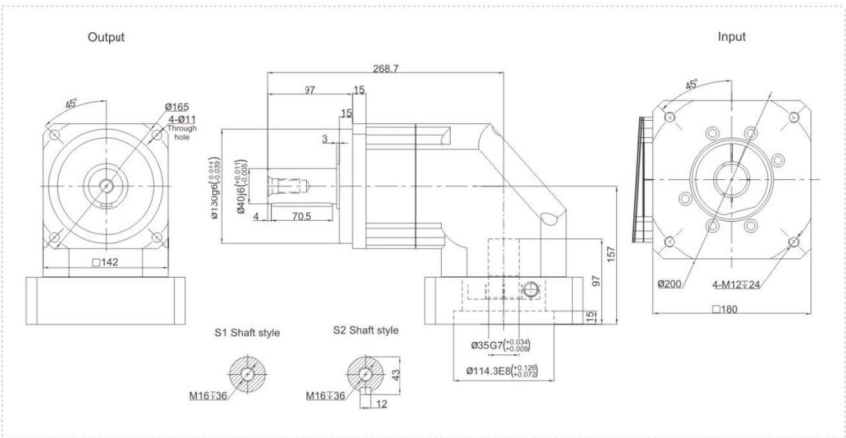
Notes:

- 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.

TBR142 Series

TBR142 One Stage



TBR142 Two Stage

