

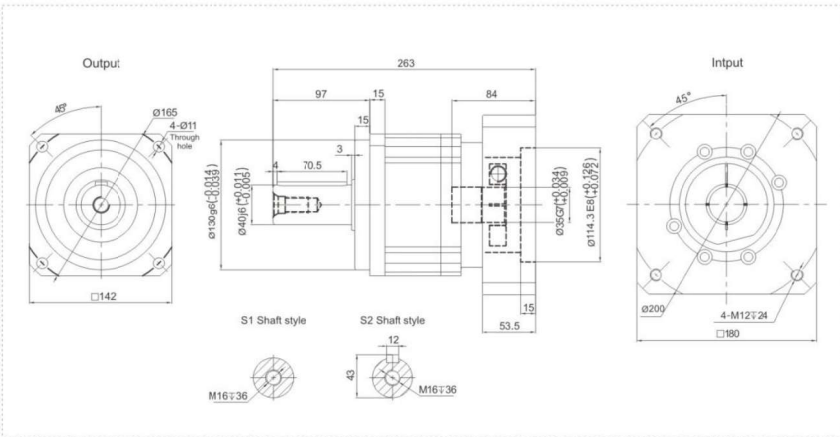
TB Series - High Speed and Precision



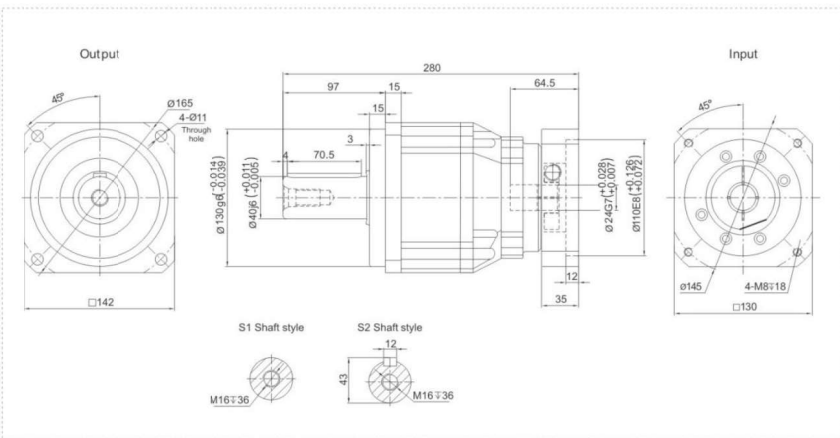
TB

TB142 Series

TB142 One Stage



TB142 Two Stage



Performance Data

The TB 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.

TB142	One Stage														Two Stage									
	Speed Ratio	i	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	100			
Nominal Output Torque	T_1	Nm	340	545	650	600	555	500	-	460	340	545	650	600	555	500	650	600	555	500	460			
Emergency Stop Torque	T_2	Nm	$T_1 \times 3$																					
Nominal Input Speed	S_1	rpm	3000																					
Maximum Input Speed	S_2	rpm	6000																					
Maximum Output Torque	T_4	Nm	$T_1 \times 3 \times 60\%$																					
Maximum Radial Force	F_r	N	9400																					
Maximum Axial Force	F_a	N	4700																					
Torsional Rigidity	-	Nm/arcmin	50																					
Efficiency	η	%	≥ 97																					
Service Life	-	h	20000																					
Noise	-	dB	≤ 65																					
Weight	-	Kg	16.5																					
Backlash	P0		≤ 1																					
	P1	arcmin	≤ 3																					
	P2		≤ 5																					
Operating Temperature	-	$^{\circ}\text{C}$	-20-90																					
Lubrication	-		Synthetic Grease																					
Protection Class	-		IP65																					
Mounting Position	-		Any Direction																					
Moment of Inertia	J	kg.cm ²	9.21	7.54	7.42	7.25	7.14	7.07	-	7.03	2.71					2.57								

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.