

# 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.

TBR042		One Stage										Two Stage										
Speed Ratio		i	-	4	5	6	7	8	9	10	20	25	30	35	40	50	60	70	80	100		
Nominal Output Torque	$T_1$	Nm	-	15	18	18	19	17	-	14	15	18	18	19	17	18	18	19	17	14		
Emergency Stop Torque	$T_2$	Nm	$T_1 \times 3$										$T_1 \times 3$									
Nominal Input Speed	$S_1$	rpm	5000										5000									
Maximum Input Speed	$S_2$	rpm	10000										10000									
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$										$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_r$	N	780										780									
Maximum Axial Force	$F_a$	N	390										390									
Torsional Rigidity	-	Nm/arcmin	3										3									
Efficiency	$\eta$	%	$\geq 95$										$\geq 92$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 61$										$\leq 61$									
Weight	-	Kg	0.7										0.9									
Backlash	P0		-										-									
	P1	arcmin	$\leq 4$										$\leq 7$									
	P2		$\leq 6$										$\leq 9$									
Operating Temperature	-	$^{\circ}\text{C}$	-20-90										-20-90									
Lubrication	-		Synthetic Grease										Synthetic Grease									
Protection Class	-		IP65										IP65									
Mounting Position	-		Any Direction										Any Direction									
Moment of Inertia	J	$\text{kg}\cdot\text{cm}^2$	0.09										0.09									

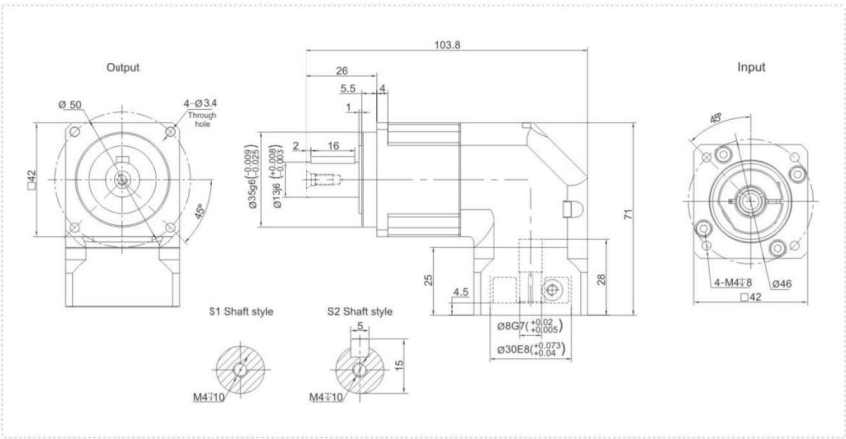
### Notes:

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

## TBR042 Series

TBR042 One Stage



TBR042 Two Stage

