

# 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.

TBR115		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	200	260	330	310	300	260	-	235	310	300	260	235	330	310	300	260	330	310	300	260	235	310	300	260	-	235
Emergency Stop Torque	$T_2$	Nm															$T_1 \times 3$											
Nominal Input Speed	$S_1$	rpm	4000														4000											
Maximum Input Speed	$S_2$	rpm	8000														8000											
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$											
Maximum Radial Force	$F_a$	N	6700														6700											
Maximum Axial Force	$F_b$	N	3350														3350											
Torsional Rigidity	-	$\frac{Nm}{arcmin}$	25														25											
Efficiency	$\eta$	%	$\geq 95$														$\geq 92$											
Service Life	-	h	20000														20000											
Noise	-	dB	$\leq 68$														$\leq 68$											
Weight	-	Kg	13														12.5											
Backlash	P0		$\leq 2$														$\leq 4$											
	P1	arcmin	$\leq 4$														$\leq 7$											
	P2		$\leq 6$														$\leq 9$											
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	$kg \cdot cm^2$	6.84				6.25				2.25				1.87													

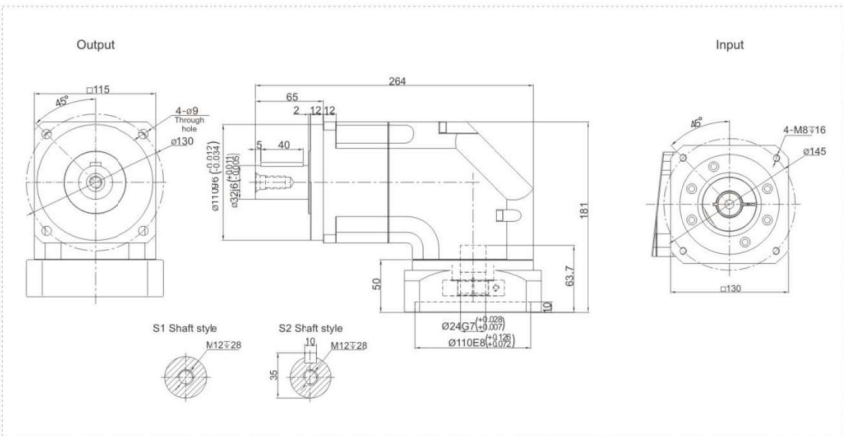
### Notes:

- 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.

## TBR115 Series

### TBR115 One Stage



### TBR115 Two Stage

