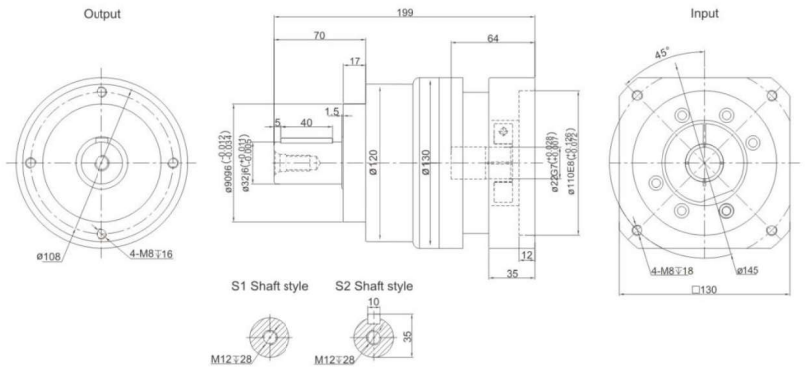
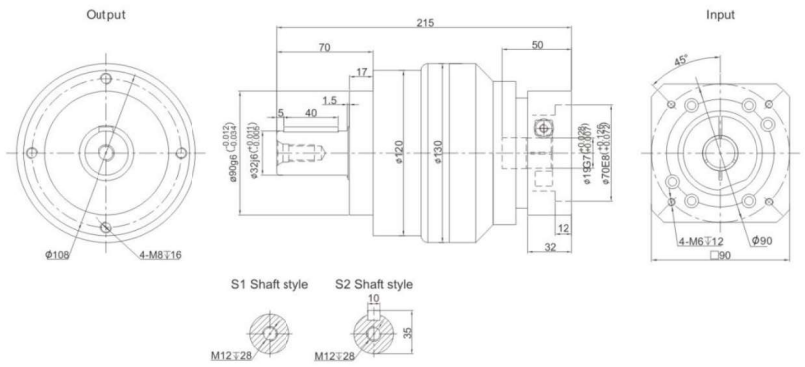
TE Series - High Precision Planetary Reducer

TE120 Series

TE120 One Stage



TE120 Two Stage



Performance Data

TE series offer additional installation flexibility in addition to TB series but with zero compromise in performance. It is with high precision and robust design.

TE120			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	210	290	333	310	300	260	-	235	210	290	333	310	300	260	333	310	300	260	235
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_4	Nm	$T_1 \times 3 \times 60\%$								$T_1 \times 3 \times 60\%$										
Maximum Radial Force	F_a	N	6100								6100										
Maximum Axial Force	F_b	N	3350								3350										
Torsional Rigidity	–	Nm/arcmin	25								25										
Efficiency	η	%	⩾97								⩾94										
Service Life	–	h	20000								20000										
Noise	–	dB	⩽63								⩽63										
Weight	–	Kg	7.5								8.5										
Backlash	P0	arcmin	–								–										
	P1		⩽3								⩽5										
	P2		⩽5								⩽7										
Operating Temperature	–	℃	-20~90								-20~90										
Lubrication	–		Synthetic Grease								Synthetic Grease										
Protection Class	–		IP65								IP65										
Mounting Position	–		Any Direction								Any Direction										
Moment of Inertia	J	kg.cm²	3.25	2.74	2.71	2.65	2.62	2.58	-	2.57	0.47				0.44						

Notes:

- Speed ratio (i=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.