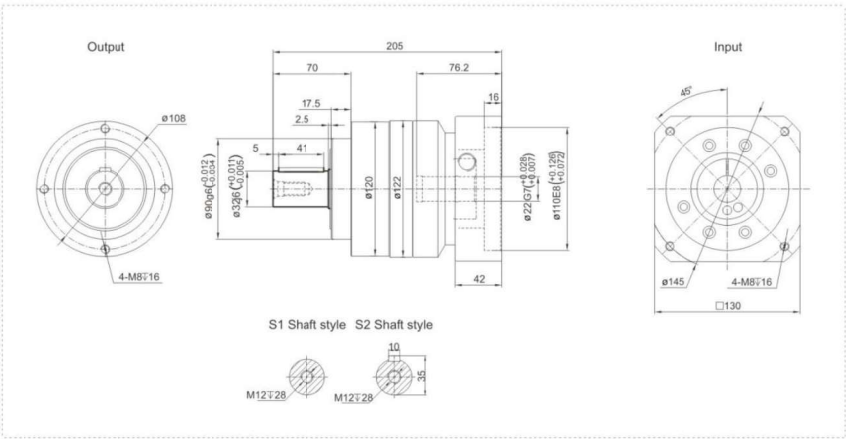


TCE Series - Optimization of Performance and Cost

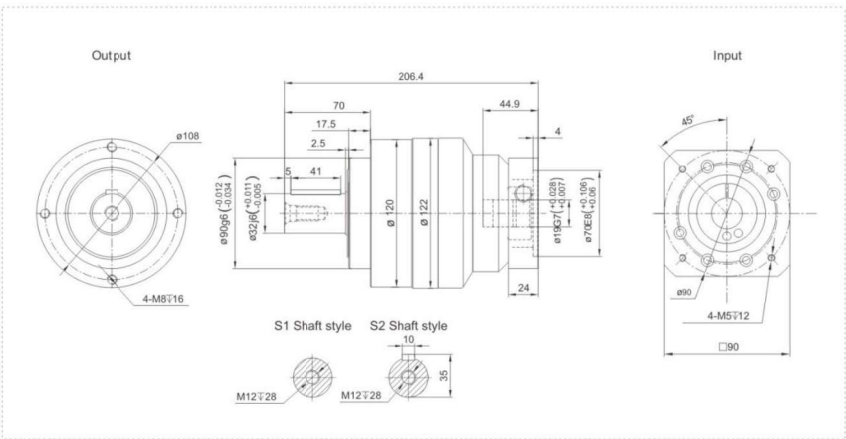


TCE120 Series

TCE120 One Stage



TCE120 Two Stage



Performance Data

TCE series planetary reducer has modular design compact structure with high reliability and efficiency. It is a perfect optimization of both performance and cost.

TCE120		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	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	200	280	320	310	300	255	-	220	200	280	320	310	300	255	320	310	300	255	220	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$	$T_1 \times 3$
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_d	Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$																						
Maximum Radial Force	F_r	N	6700														6700																						
Maximum Axial Force	F_a	N	3350														3350																						
Torsional Rigidity	-	Nm/arcmin	25														25																						
Efficiency	η	%	≥ 97														≥ 94																						
Service Life	-	h	20000														20000																						
Noise	-	dB	≤ 63														≤ 63																						
Weight	-	Kg	7.8														8.5																						
Backlash	P0	arcmin	-														-																						
	P1	arcmin	≤ 3														≤ 5																						
	P2	arcmin	≤ 5														≤ 7																						
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	kg.cm ²	3.25	2.74	2.71	2.65	2.62	2.58	-	2.57	0.47															0.44													

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.