TCB Series - Optimization of Performance and Cost



ТВ

Tob

TD

TDF

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TER

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ТСВ

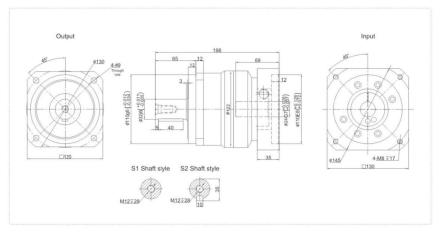
TCB

TCE

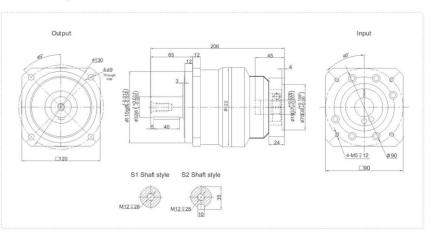
ТМ

TCB120 Series

TCB120 One Stage



TCB120 Two Stage



Performance Data

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

TCB120	One Stage												Two Stage									
Speed Ratio		į	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	100	
Nominal Output Torque	T,	Nm	200	280	320	310	300	255	-	220	200	280	320	310	300	255	320	310	300	255	220	
Emergency Stop Torque	T₂	Nm	T,×3									T,×3										
Nominal Input Speed	S,	rpm	3000								3000											
Maximum Input Speed	S₂	rpm	6000								6000											
Maximum Output Torque	Т4	Nm	T,×3×60%								T, × 3 × 60%											
Maximum Radial Force	F _a	N	6700								6700											
Maximum Axial Force	F _b	N	3350								3350											
Forsional Rigidity	-	Nm/ arcmin	25								25											
Efficiency	η	%	≥97								≥94											
Service Life	-	h	20000								20000											
Noise	-	dB	≤63								≤63											
Weight	-	Kg	8								9.5											
Backlash	P0		-							-												
	ΡΊ	arcmin	≤3							≪5												
	P2		≤ 5							≤7												
Operating Temperature	-	°C	-20~90									-20~90										
ubrication		-	Synthetic Grease									Synthetic grease										
Protection Class		-	IP65									IP65										
Founting 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					C).44			

Notes:

- Speed ratio (i=Sin/Sout)
- $\ensuremath{\pmb{\wp}}$ When the output speed is 100 rpm, it acts on the center of the output shaft.
- $\ensuremath{ f \wp}$ For continuous operation, the service life is no less than $10,\!000\,\mbox{hours}.$
- ♠ 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.

ТВ

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