# TCE Series - Optimization of Performance and Cost

**G**EARKO®

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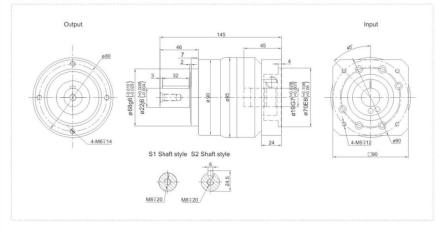
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TCE

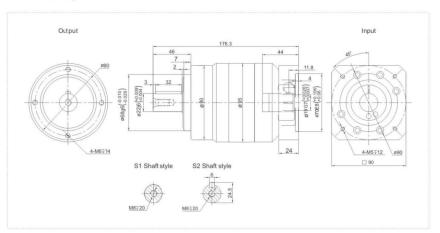
TM

## TCE090 Series

## TCE090 One Stage



#### TCE090 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.

TCE090	One Stage												Two Stage									
Speed Ratio		i	3	2	4 5	6	6 7		7 8	9	10	15	20	25	30	35	40	50	60	70	80	100
Neminal Output Torque	$T_1$	Nm	100	11	0 150	14	0 1	135	120	-	100	100	110	150	140	135	120	150	140	135	120	10
Emergency Stop Torque	T <sub>2</sub>	Nm	T,×3								T,×3											
Neminal Input Speed	S,	rpm	3000								3000											
Maximum Input Speed	S₂	rpm	6000								6000											
Maximum Output Torque	T <sub>4</sub>	Nm	T,×3×60%								T,×3×60%											
Maximum Radial Force	F.	N	3250								3250											
Maximum Axial Force	Fь	N	1625								1625											
Tersional Rigidity	-	Nm/ arcmin	14								14											
Efficiency	η	%	≥97								≥94											
Service Life	-	h	20000							20000												
Noise	-	dB	<b>≤</b> 60							≤60												
Weight	-	Kg	3.4								5.2											
Backlash	PO			-							-											
	Р1	arcmin	€3							≤5												
	P2		<b>≤</b> 5								€7											
Operating Temperature	-	°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	0.61	0.4	18 0.4	7 0.4	50	.45	0.44	-	0.44			0.4	7					0.44		

#### Notes:

- Speed ratio (i=Sin/Sout)
- $\ensuremath{ f \varnothing}$  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.
- $\begin{tabular}{ll} \blacksquare \end{tabular} \begin{tabular}{ll} \blacksquare \end{tabular} The noise value was measured based on the input rotational speed of 3000 rpm, $i$=$10. \end{tabular}$

Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.

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