

## Precision Planetary Reducer



TE/TER series planetary reducer combines innovation, efficiency and quality, maximizing customer value and performance.

# GEARKO®

## DRIVES

# THE PRECISION

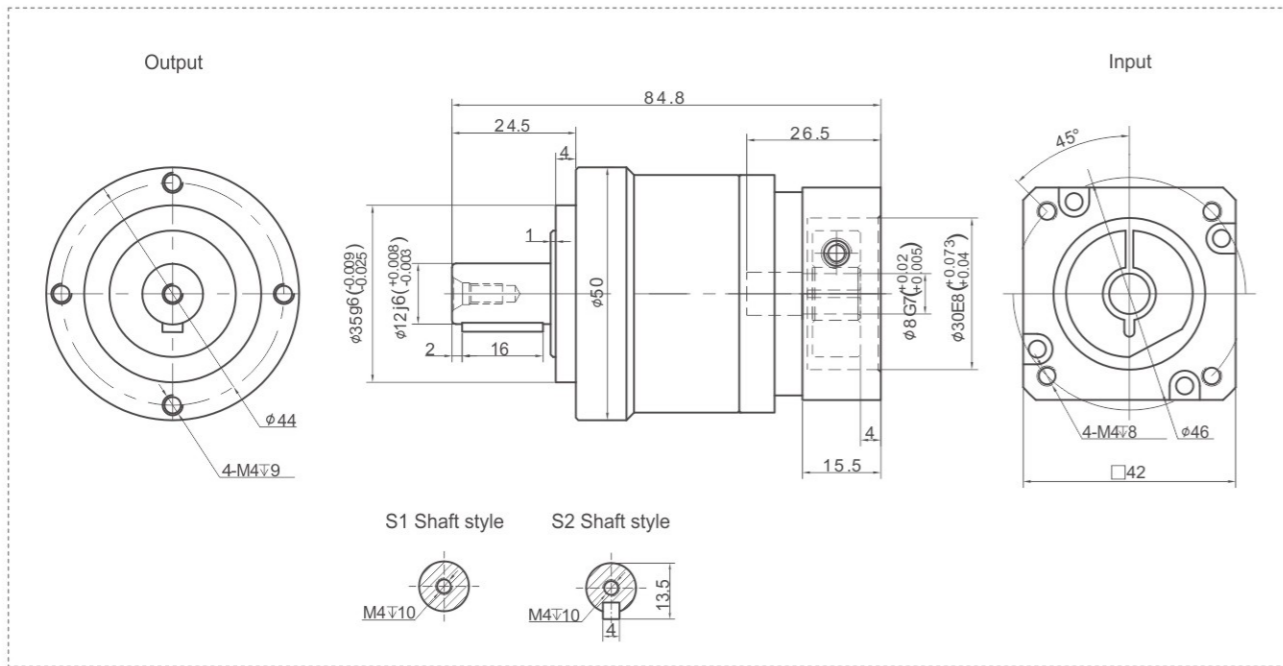


# TE Series - High Precision Planetary Reducer

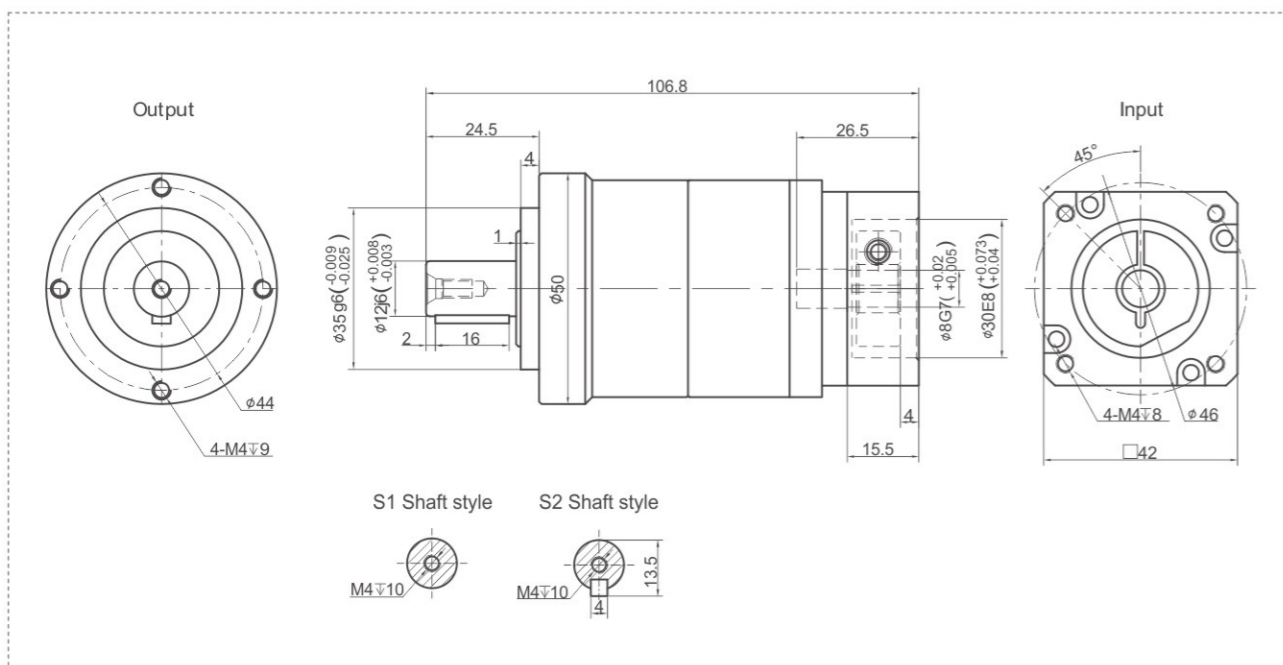


## TE050 Series

### TE050 One Stage



### TE050 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.

TE050		One Stage										Two Stage										
Speed Ratio	i	-	4	5	6	7	8	9	10	-	20	25	30	35	40	50	60	70	80	100		
Nominal Output Torque	T <sub>1</sub>	Nm	-	19	20	19	19	17	-	14	-	19	20	19	19	17	20	19	17	14		
Emergency Stop Torque	T <sub>2</sub>	Nm	T <sub>1</sub> × 3										T <sub>1</sub> × 3									
Nominal Input Speed	S <sub>1</sub>	rpm	5000										5000									
Maximum Input Speed	S <sub>2</sub>	rpm	10000										10000									
Maximum Output Torque	T <sub>4</sub>	Nm	T <sub>1</sub> × 3 × 60%										T <sub>1</sub> × 3 × 60%									
Maximum Radial Force	F <sub>a</sub>	N	702										702									
Maximum Axial Force	F <sub>b</sub>	N	390										390									
Torsional Rigidity	-	Nm/arcmin	3										3									
Efficiency	η	%	≥97										≥94									
Service Life	-	h	20000										20000									
Noise	-	dB	≤56										≤56									
Weight	-	Kg	0.6										0.9									
Backlash	P0	-	-										-									
	P1	arcmin	≤3										≤5									
	P2	-	≤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 <sup>2</sup>	0.03										0.13									

### Notes:

- Speed ratio (i=S<sub>in</sub>/S<sub>out</sub>)
- 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.

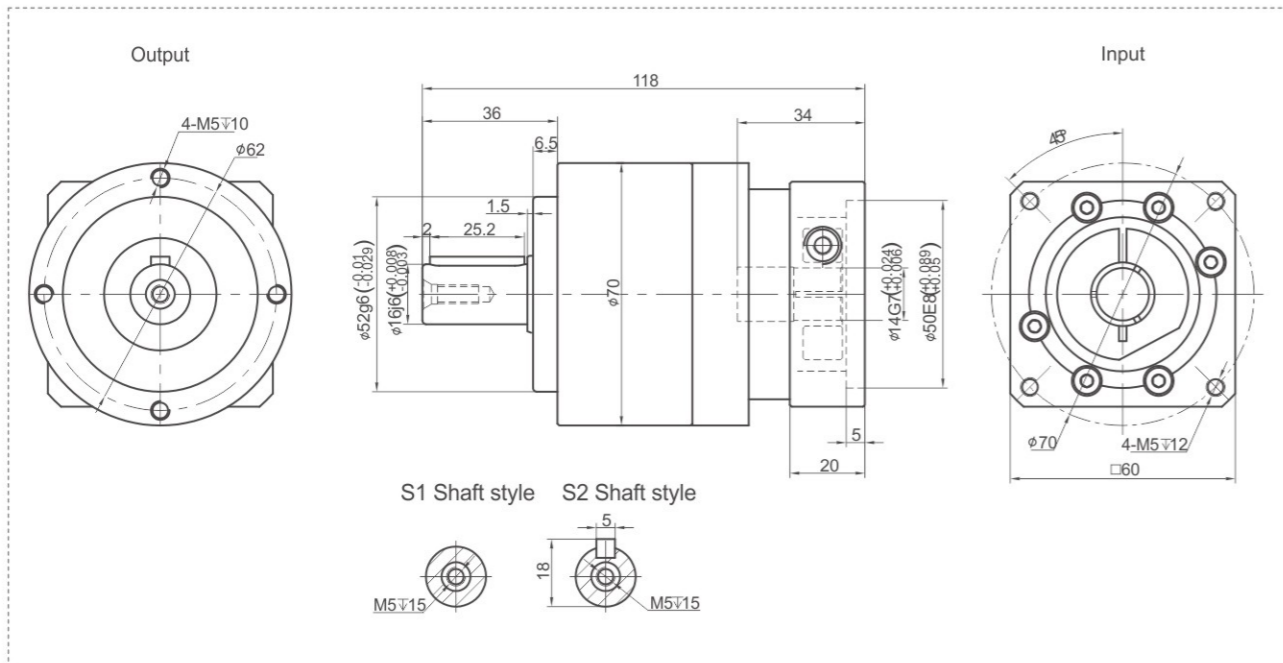
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# TE Series - High Precision Planetary Reducer

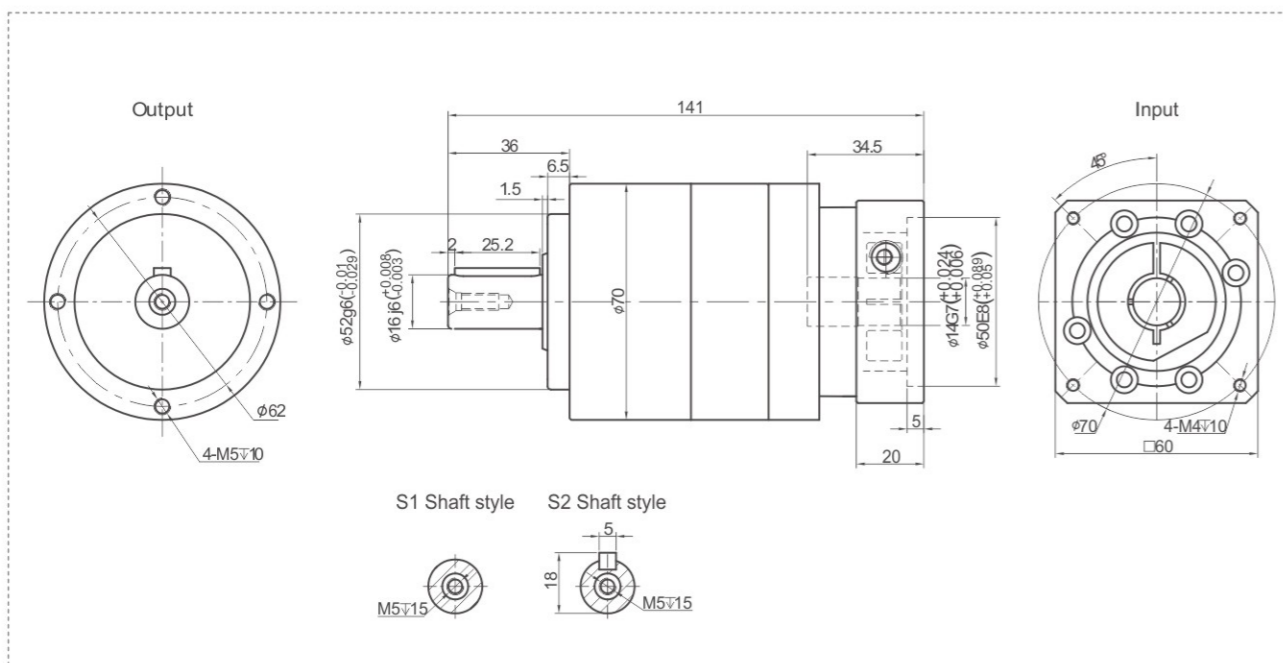


## TE070 Series

### TE070 One Stage



### TE070 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.

TE070		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	52	50	58	55	50	45	-	42	52	50	58	55	50	45	58	55	50	45	42	
Emergency Stop Torque	$T_2$	Nm	$T_1 \times 3$										$T_1 \times 3$									
Nominal Input Speed	$S_1$	rpm	5000										5000									
Maximum Input Speed	$S_2$	rpm	10000										10000									
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$										$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$	N	1377										1377									
Maximum Axial Force	$F_b$	N	765										765									
Torsional Rigidity	-	Nm/arcmin	7										7									
Efficiency	$\eta$	%	$\geq 97$										$\geq 94$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 58$										$\leq 58$									
Weight	-	Kg	1.4										1.6									
Backlash	P0		-										-									
	P1	arcmin	$\leq 3$										$\leq 5$									
	P2		$\leq 5$										$\leq 7$									
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 <sup>2</sup>	0.16	0.14	0.13						0.13											

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

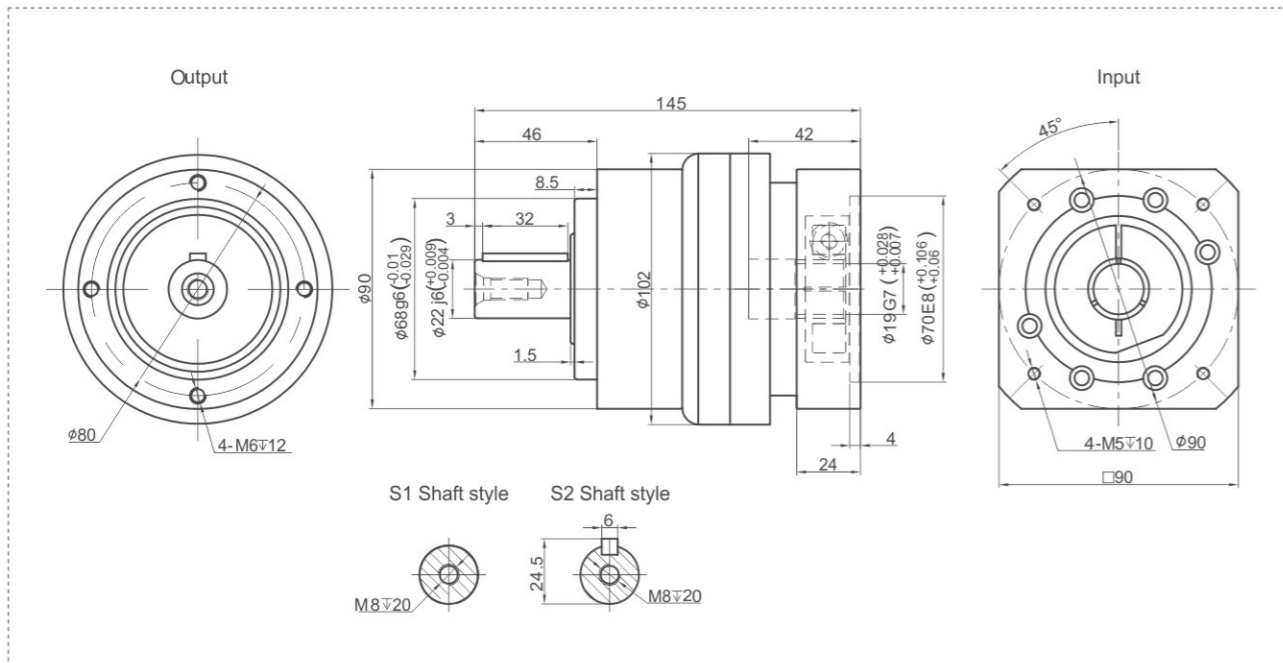
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# TE Series - High Precision Planetary Reducer

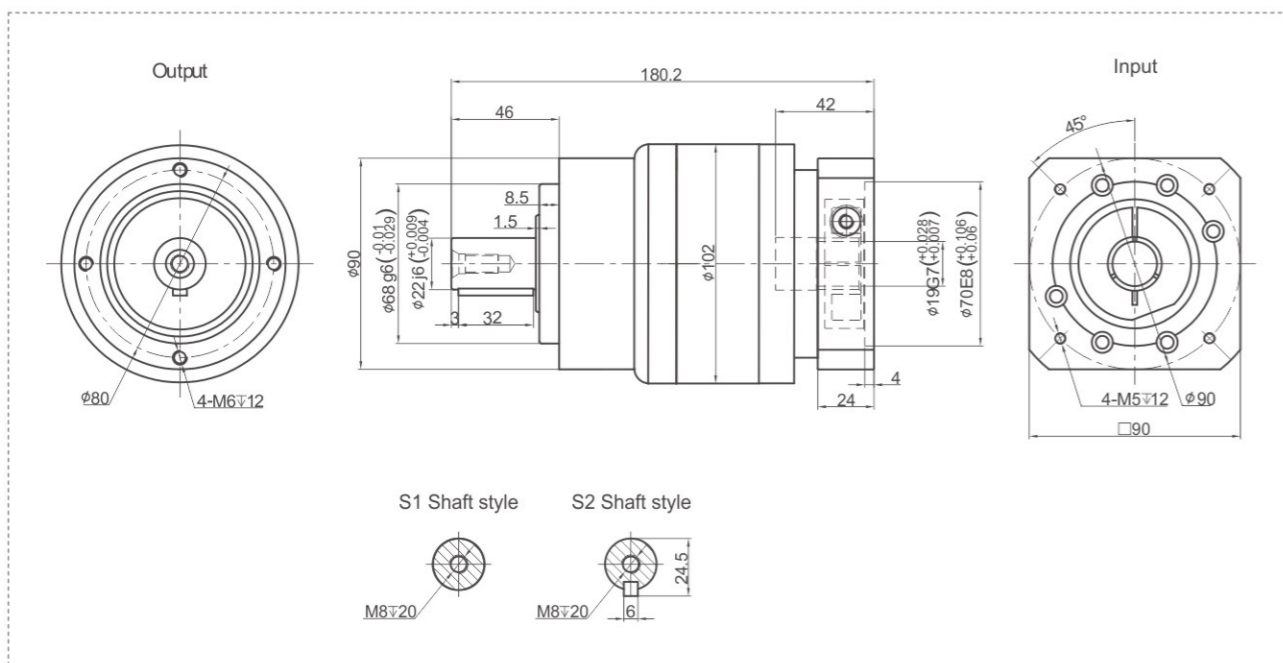


## TE090 Series

### TE090 One Stage



### TE090 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.

TE090		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	130	140	160	148	140	123	-	102	130	140	160	148	140	123	160	148	140	123	102	
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	2985										2985									
Maximum Axial Force	$F_b$	N	1625										1625									
Torsional Rigidity	-	Nm/arcmin	14										14									
Efficiency	$\eta$	%	$\geq 97$										$\geq 94$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 60$										$\leq 60$									
Weight	-	Kg	3.4										5.1									
Backlash	P0:		-										-									
	P1:	arcmin	$\leq 3$										$\leq 5$									
	P2:		$\leq 5$										$\leq 7$									
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 <sup>2</sup>	0.61	0.48	0.47	0.45	0.44					0.47									0.44	

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

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# TE Series - High Precision Planetary Reducer



## 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	$\eta$	%	$\geq 97$										$\geq 94$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 63$										$\leq 63$									
Weight	-	Kg	7.5										8.5									
Backlash	P0:		-										-									
	P1:	arcmin	$\leq 3$										$\leq 5$									
	P2:		$\leq 5$										$\leq 7$									
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 <sup>2</sup>	3.25	2.74	2.71	2.65	2.62	2.58	-	2.57	0.47					0.44						

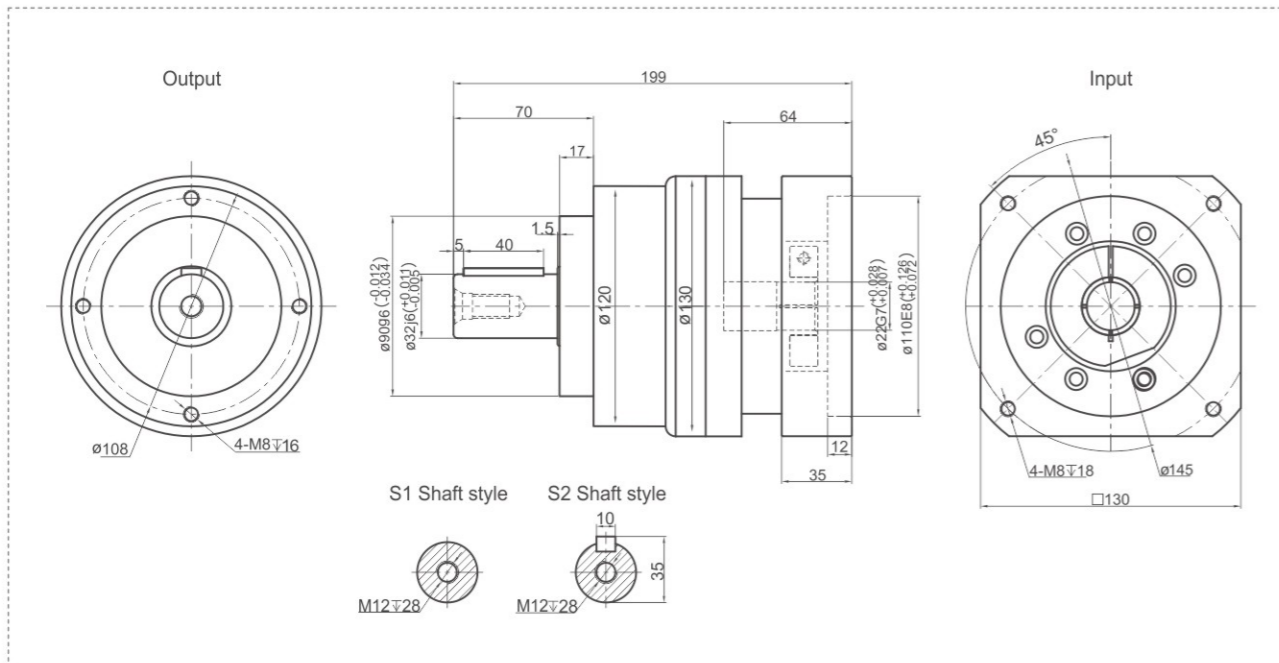
### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

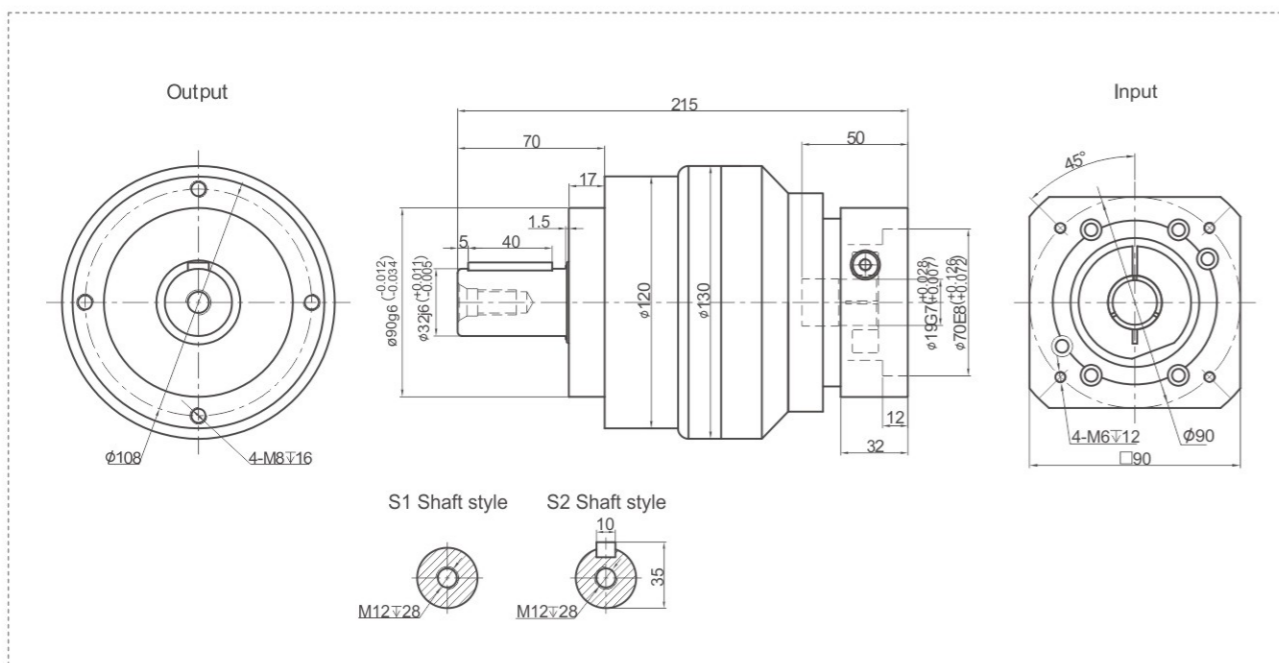
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## TE120 Series

### TE120 One Stage



### TE120 Two Stage

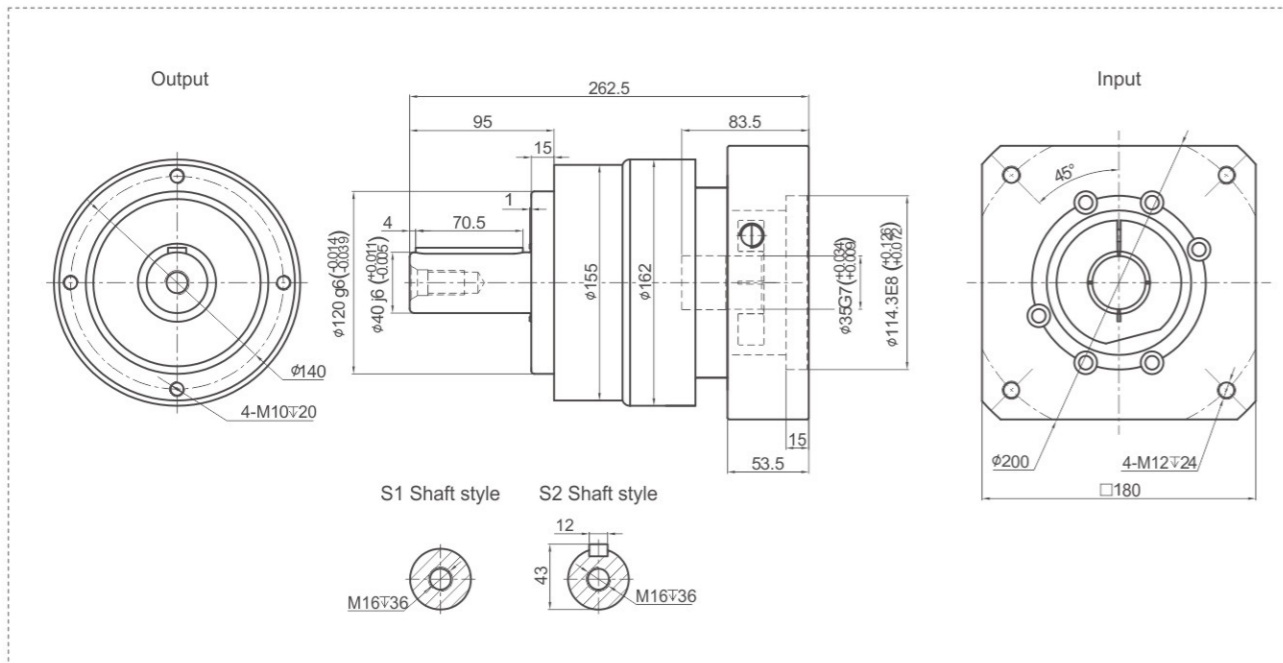


# TE Series - High Precision Planetary Reducer

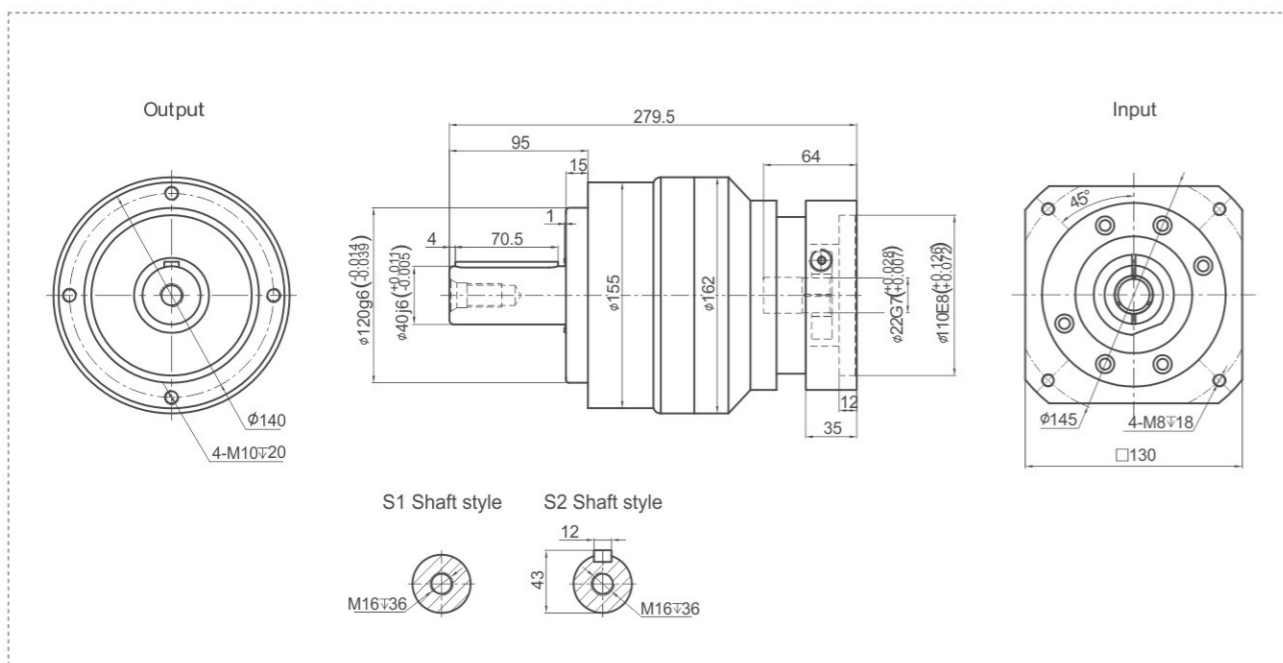


## TE155 Series

### TE155 One Stage



### TE155 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.

TE155		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	340	545	650	600	555	500	-	460	340	545	650	600	555	500	650	600	555	500	460	
Emergency Stop Torque	$T_2$	Nm	$T_1 \times 3$										$T_1 \times 3$									
Nominal Input Speed	$S_1$	rpm	3000										3000									
Maximum Input Speed	$S_2$	rpm	6000										6000									
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$										$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$	N	8460										8460									
Maximum Axial Force	$F_b$	N	4700										4700									
Torsional Rigidity	-	Nm/arcmin	50										50									
Efficiency	$\eta$	%	$\geq 97$										$\geq 94$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 65$										$\leq 65$									
Weight	-	Kg	18										17									
Backlash	P0		-										-									
	P1	arcmin	$\leq 3$										$\leq 5$									
	P2		$\leq 5$										$\leq 7$									
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 <sup>2</sup>	9.21	7.54	7.42	7.25	7.14	7.07	-	7.03	2.71										2.57	

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

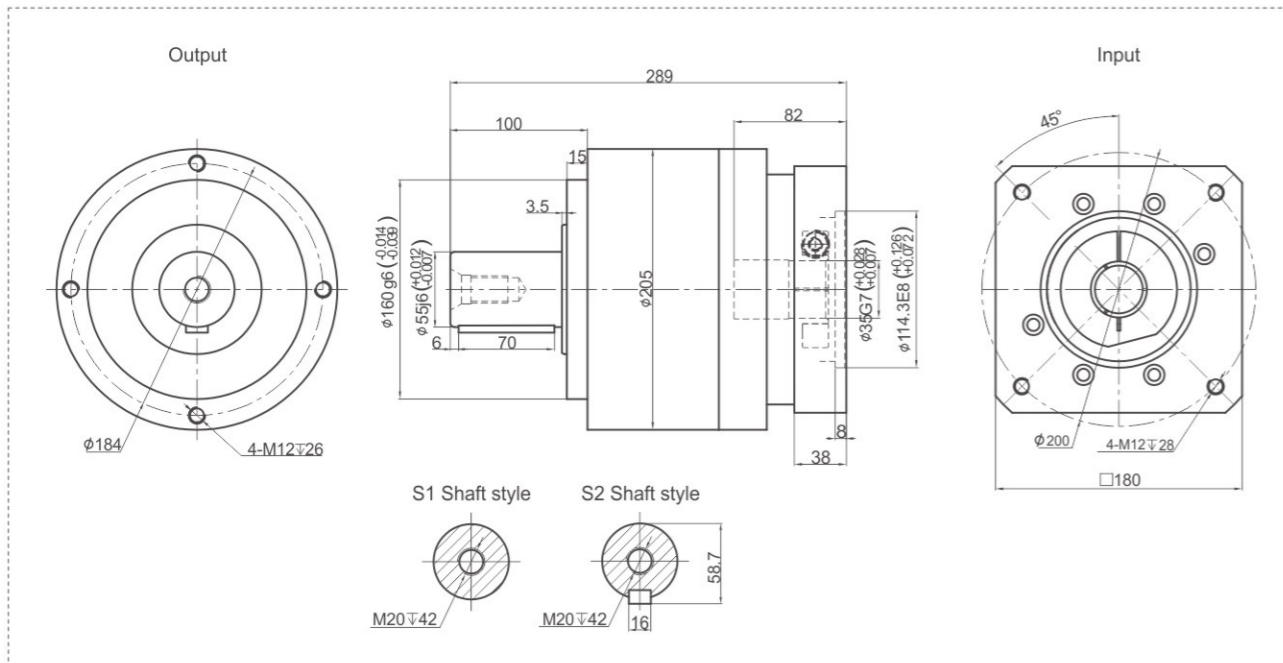
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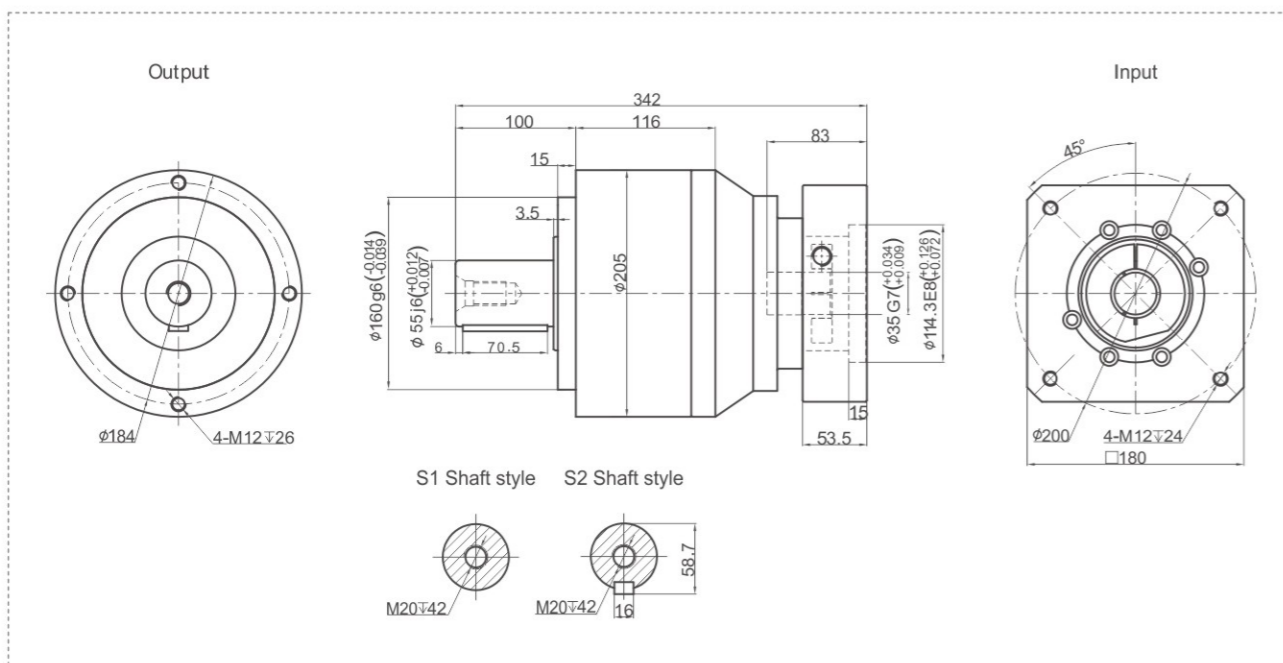


## TE205 Series

### TE205 One Stage



### TE205 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.

TE205		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	590	1050	1200	1108	1100	1000	-	910	590	1050	1200	1108	1100	1000	1200	1108	1100	1000	910	
Emergency Stop Torque	$T_2$ Nm	$T_1 \times 3$										$T_1 \times 3$									
Nominal Input Speed	$S_1$ rpm	3000										3000									
Maximum Input Speed	$S_2$ rpm	6000										6000									
Maximum Output Torque	$T_4$ Nm	$T_1 \times 3 \times 60\%$										$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$ N	13050										13050									
Maximum Axial Force	$F_b$ N	7250										7250									
Torsional Rigidity	- Nm/arcmin	145										145									
Efficiency	$\eta$ %	$\geq 97$										$\geq 94$									
Service Life	- h	20000										20000									
Noise	- dB	$\leq 67$										$\leq 67$									
Weight	- Kg	34										35									
Backlash	P0	-										-									
	P1	$\leq 3$										$\leq 5$									
	P2	$\leq 5$										$\leq 7$									
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 <sup>2</sup>	28.98	23.67	23.29	22.75	22.48	22.59	-	22.51	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.03

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

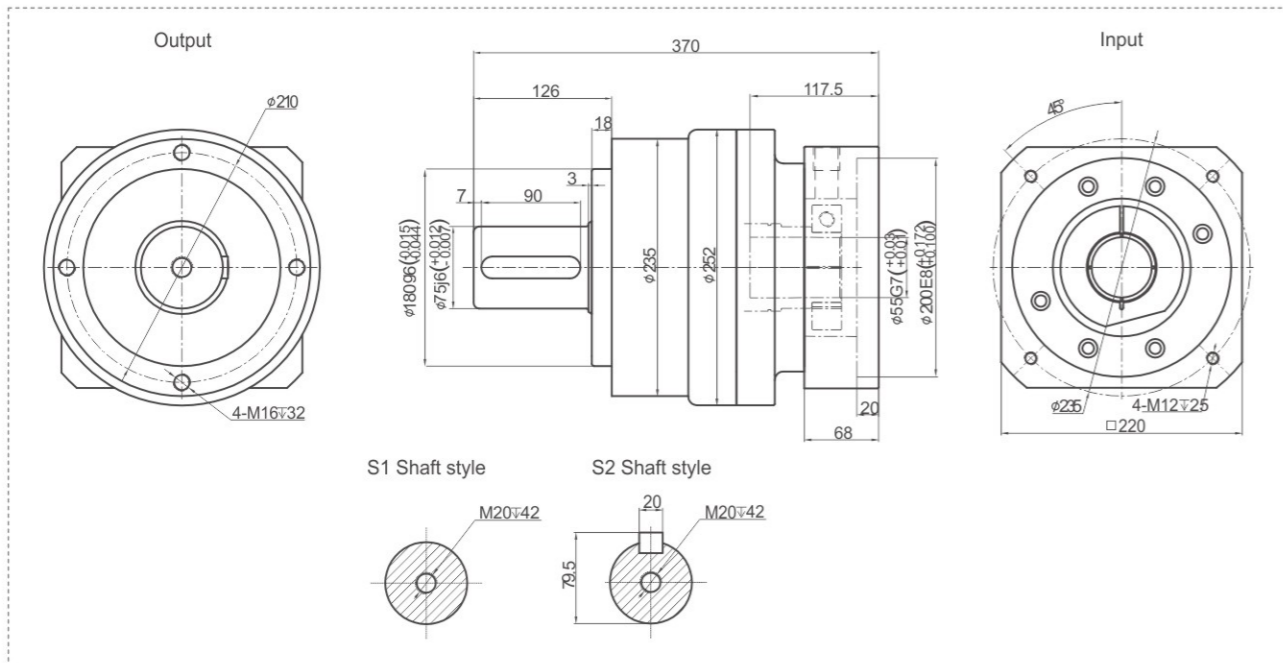
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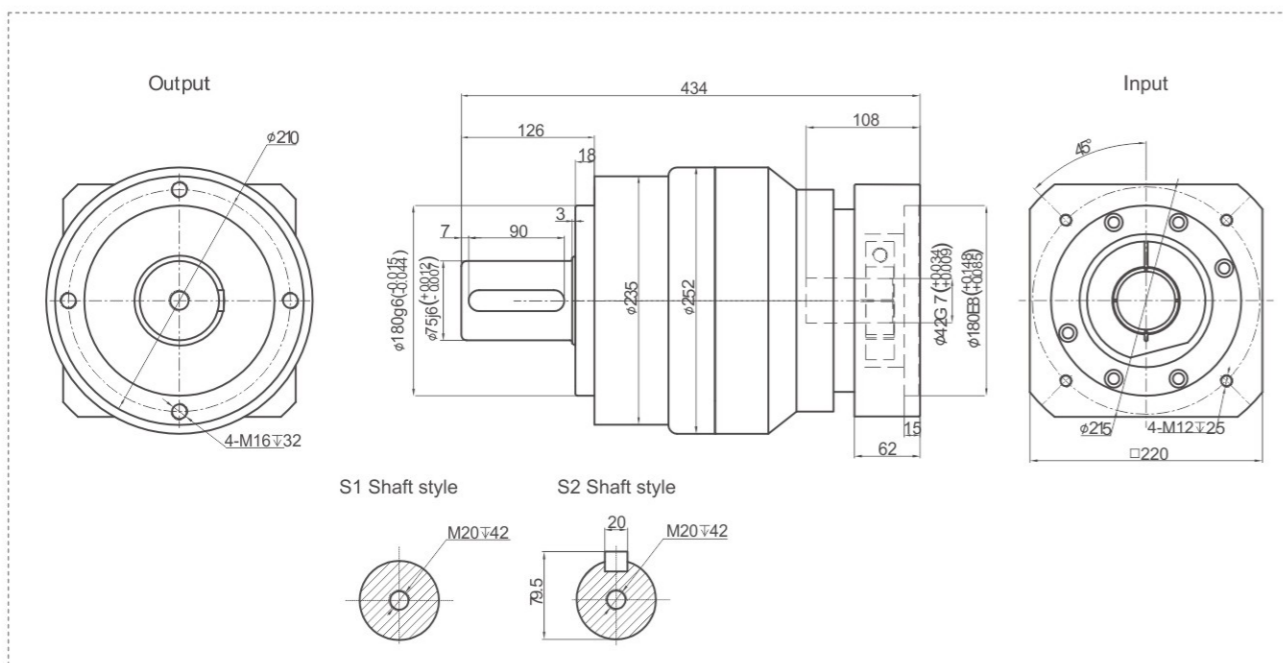


## TE235 Series

### TE235 One Stage



### TE235 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.

TE235		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	1150	1700	2008	1900	1810	1600	-	1550	1150	1700	2008	1900	1810	1600	2008	1900	1810	1600	1550	
Emergency Stop Torque	$T_2$	Nm	$T_1 \times 3$										$T_1 \times 3$									
Nominal Input Speed	$S_1$	rpm	2000										2000									
Maximum Input Speed	$S_2$	rpm	4000										4000									
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$										$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$	N	48700										48700									
Maximum Axial Force	$F_b$	N	18000										18000									
Torsional Rigidity	-	Nm/arcmin	225										225									
Efficiency	$\eta$	%	$\geq 97$										$\geq 94$									
Service Life	-	h	20000										20000									
Noise	-	dB	$\leq 70$										$\leq 70$									
Weight	-	Kg	53										66									
Backlash	P0		-										-									
	P1	arcmin	$\leq 3$										$\leq 5$									
	P2		$\leq 5$										$\leq 7$									
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 <sup>2</sup>	69.61	54.37	53.27	51.72	50.97	50.84	-	50.56	23.29										22.51	

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

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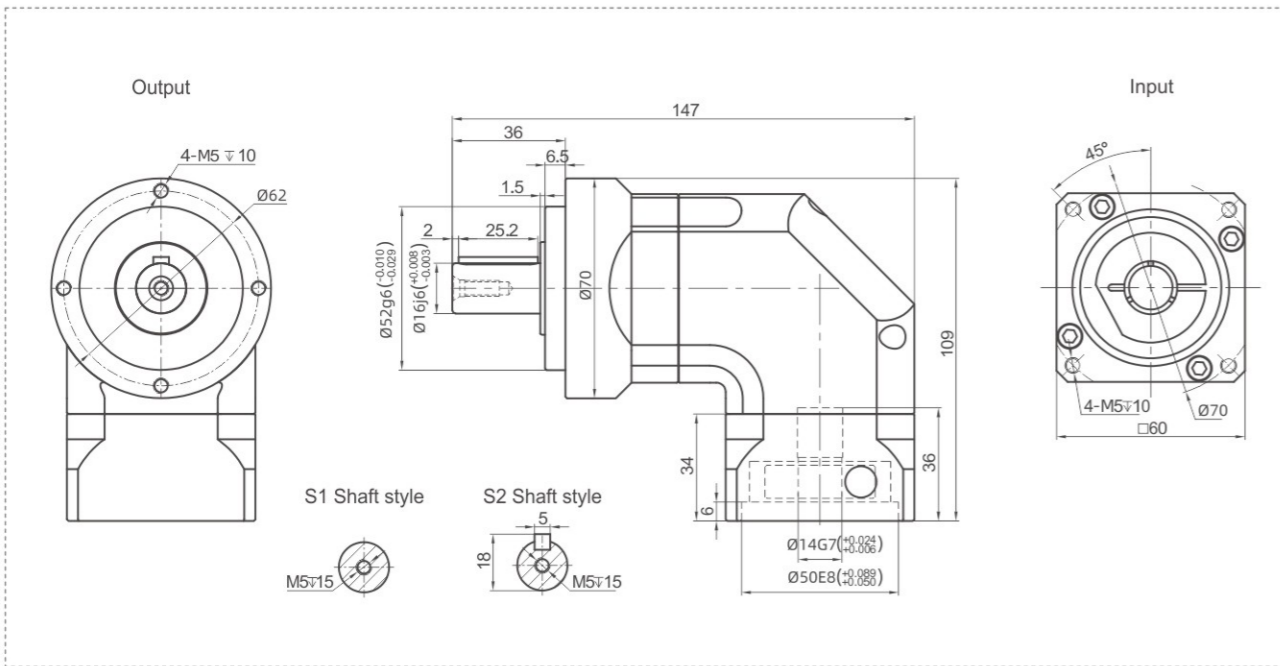


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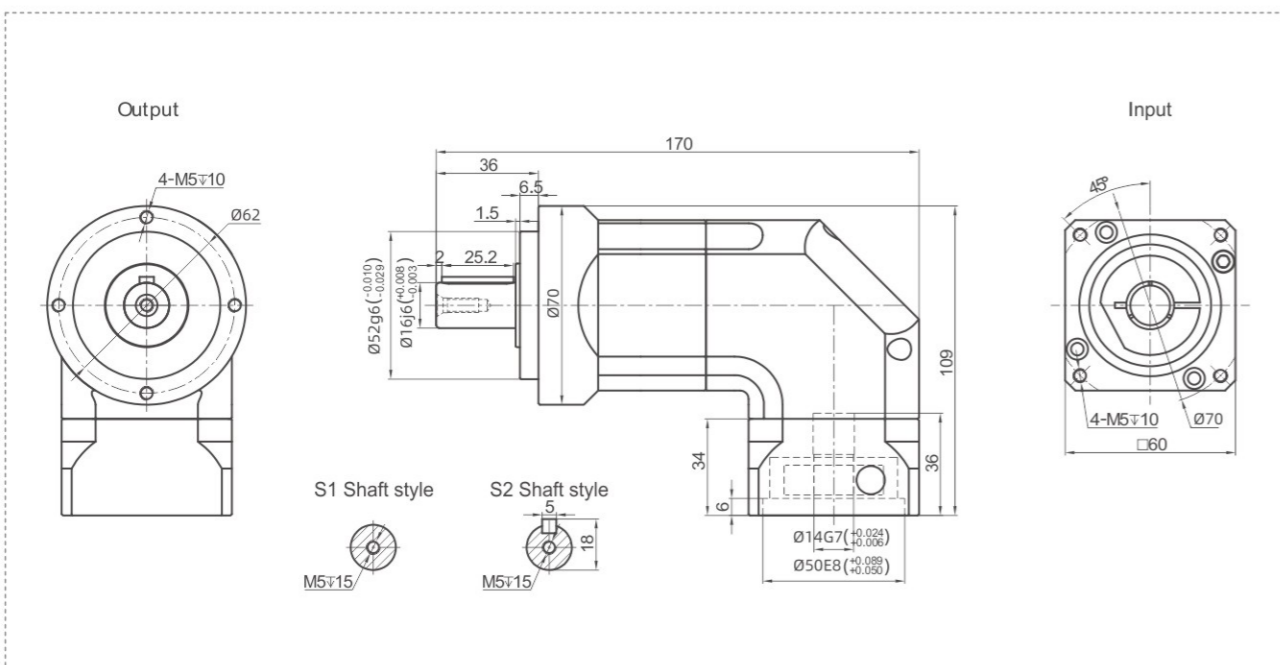


## TER070 Series

### TER070 One Stage



### TER070 Two Stage



## Performance Data

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

TER070		One Stage														Two Stage										
Speed Ratio	i	3	4	5	6	7	8	9	10	14	20	25	30	35	40	50	60	70	80	100	120	140	160	180	200	
Nominal Output Torque	$T_1$	Nm	50	48	58	55	50	45	-	42	42	42	58	55	50	45	58	55	50	45	42	55	50	45	-	42
Emergency Stop Torque	$T_2$	Nm	$T_1 \times 3$														$T_1 \times 3$									
Nominal Input Speed	$S_1$	rpm	5000														5000									
Maximum Input Speed	$S_2$	rpm	10000														10000									
Maximum Output Torque	$T_4$	Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$	N	1377														1377									
Maximum Axial Force	$F_b$	N	765														765									
Torsional Rigidity	-	Nm/arcmin	7														7									
Efficiency	$\eta$	%	$\geq 95$														$\geq 92$									
Service Life	-	h	20000														20000									
Noise	-	dB	$\leq 63$														$\leq 63$									
Weight	-	Kg	2.1														2.5									
Backlash	P0:		-														-									
	P1	arcmin	$\leq 4$														$\leq 7$									
	P2:		$\leq 6$														$\leq 9$									
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 <sup>2</sup>	0.35							0.07							0.09									

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

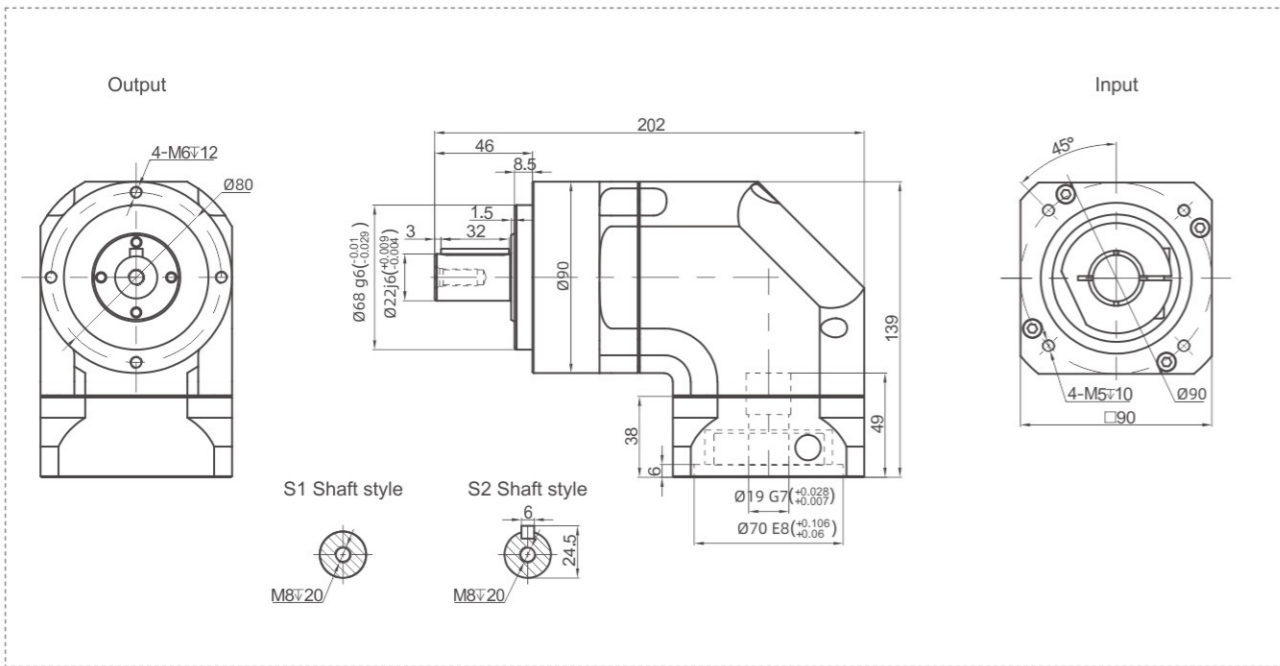
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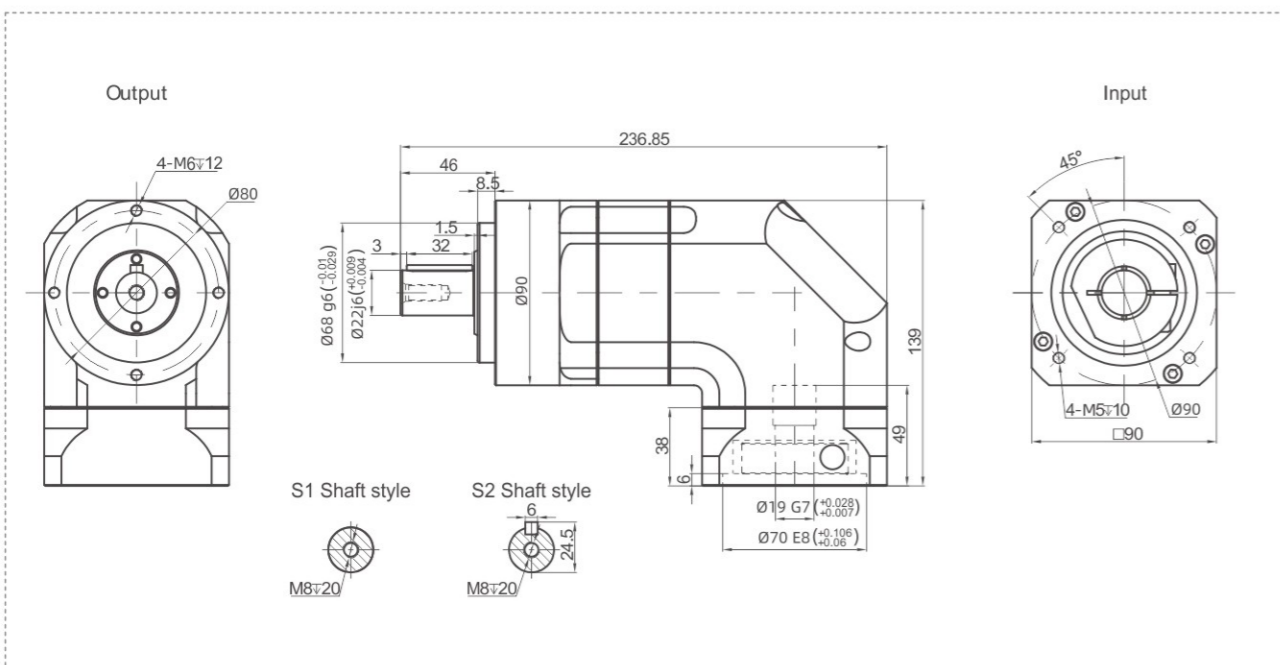


## TER090 Series

### TER090 One Stage



### TER090 Two Stage



## Performance Data

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

TER090		One Stage														Two Stage									
Speed Ratio	i	3	4	5	6	7	8	9	10	14	20	25	30	35	40	50	60	70	80	100	120	140	160	180	200
Nominal Output Torque	$T_1$ Nm	100	120	150	148	140	123	-	102	140	102	150	148	140	120	150	148	140	123	102	148	140	123	-	102
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	2985														2985									
Maximum Axial Force	$F_b$ N	1625														1625									
Torsional Rigidity	- Nm/arcmin	14														14									
Efficiency	$\eta$ %	$\geq 95$														$\geq 92$									
Service Life	- h	20000														20000									
Noise	- dB	$\leq 65$														$\leq 65$									
Weight	- Kg	5														6.4									
Backlash	P0	-														-									
	P1	$\leq 4$														$\leq 7$									
	P2	$\leq 6$														$\leq 9$									
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 <sup>2</sup>	2.25							1.87							2.25					1.87				

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

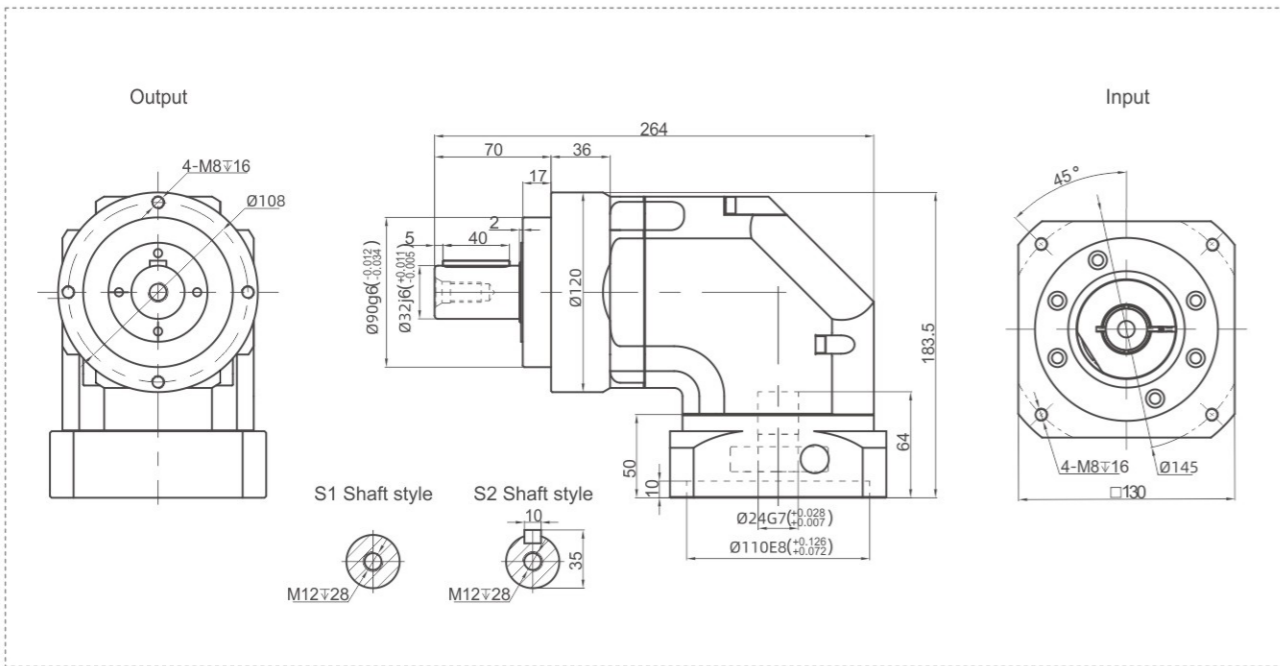
Any product models and parameters in this sample are subject to change without prior notice. Please confirm with the company before ordering.

# TER Series - High Precision Planetary Reducer

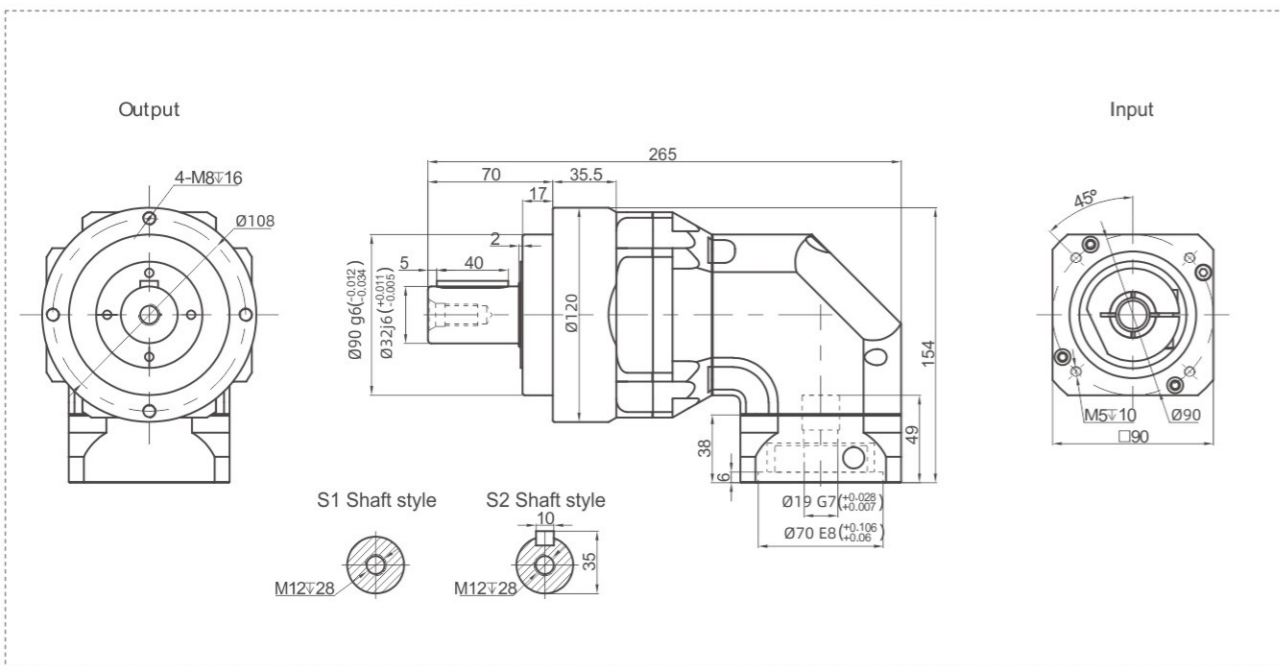


## TER120 Series

### TER120 One Stage



### TER120 Two Stage



## Performance Data

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

TER120		One Stage														Two Stage										
Speed Ratio	i	3	4	5	6	7	8	9	10	14	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	300	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									
Maximum Input Speed	$S_2$	rpm															8000									
Maximum Output Torque	$T_4$	Nm															$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$	N															6100									
Maximum Axial Force	$F_b$	N															3350									
Torsional Rigidity	-	Nm/arcmin															25									
Efficiency	$\eta$	%															$\geq 95$									
Service Life	-	h															20000									
Noise	-	dB															$\leq 68$									
Weight	-	Kg															13									
Backlash	P0																-									
	P1	arcmin															$\leq 4$									
	P2																$\leq 6$									
Operating Temperature	-	$^{\circ}\text{C}$															-20-90									
Lubrication	-																Synthetic Grease									
Protection Class	-																IP65									
Mounting Position	-																Any Direction									
Moment of Inertia	J	kg.cm <sup>2</sup>	6.84							6.25							2.25					1.87				

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

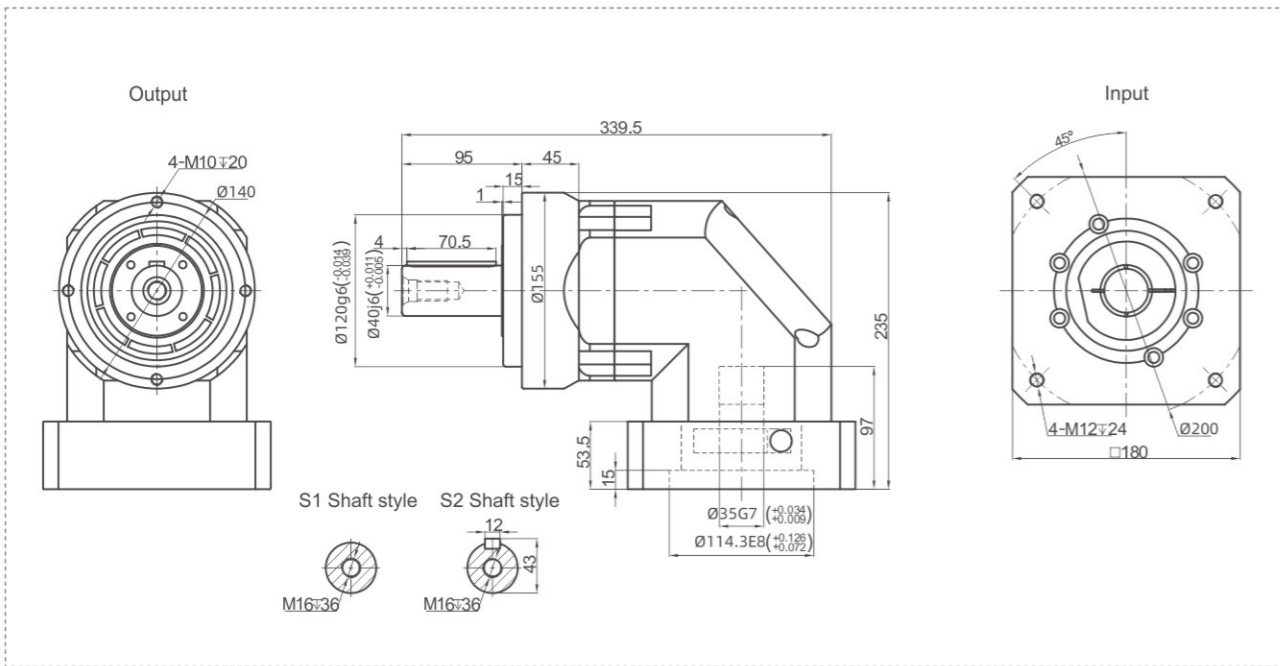
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# TER Series - High Precision Planetary Reducer

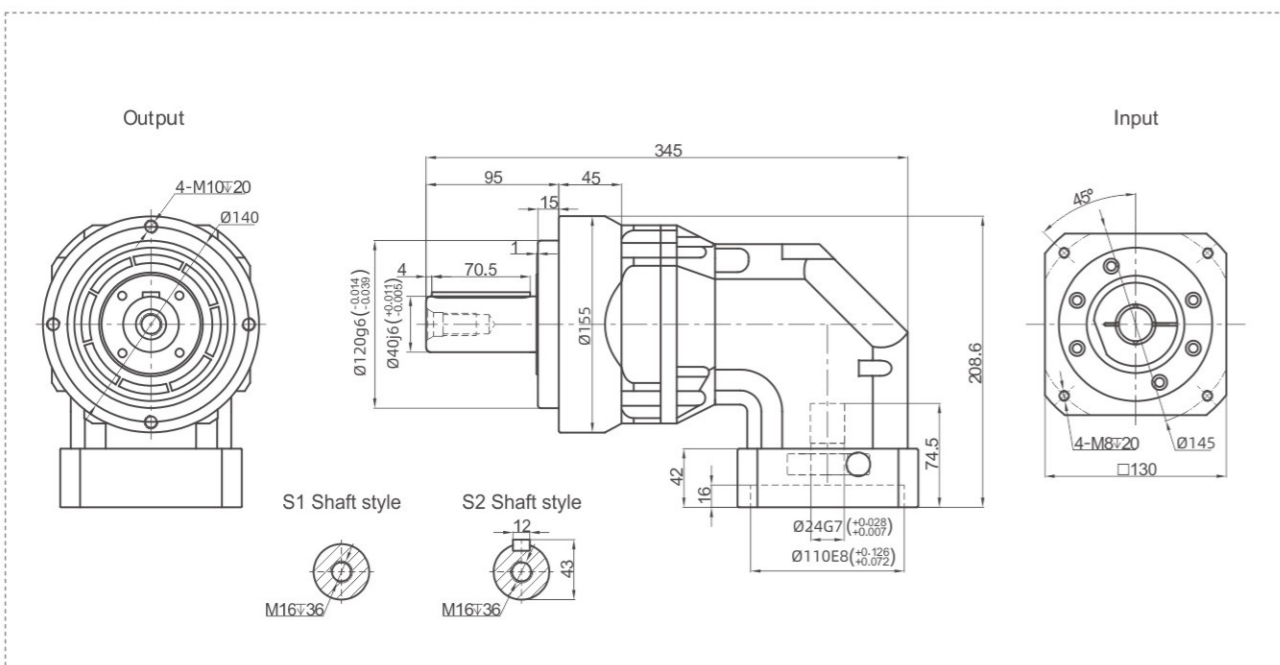


## TER155 Series

### TER155 One Stage



### TER155 Two Stage



## Performance Data

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

TER155		One Stage														Two Stage									
Speed Ratio	i	3	4	5	6	7	8	9	10	14	20	25	30	35	40	50	60	70	80	100	120	140	160	180	200
Nominal Output Torque	$T_1$ Nm	340	540	650	600	555	500	-	460	555	450	650	600	555	500	650	600	555	500	460	600	555	500	-	460
Emergency Stop Torque	$T_2$ Nm	$T_1 \times 3$														$T_1 \times 3$									
Nominal Input Speed	$S_1$ rpm	3000														3000									
Maximum Input Speed	$S_2$ rpm	6000														6000									
Maximum Output Torque	$T_4$ Nm	$T_1 \times 3 \times 60\%$														$T_1 \times 3 \times 60\%$									
Maximum Radial Force	$F_a$ N	8460														8460									
Maximum Axial Force	$F_b$ N	4700														4700									
Torsional Rigidity	- Nm/arcmin	50														50									
Efficiency	$\eta$ %	$\geq 95$														$\geq 92$									
Service Life	- h	20000														20000									
Noise	- dB	$\leq 70$														$\leq 70$									
Weight	- Kg	25.1														21.5									
Backlash	P0	-														-									
	P1	$\leq 4$														$\leq 7$									
	P2	$\leq 6$														$\leq 9$									
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 <sup>2</sup>	23.4							21.8							6.84			6.25						

### Notes:

- Speed ratio ( $i = S_{in}/S_{out}$ )
- 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,  $i=10$ .

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