

PE Series: INLINE – Solid Shaft Output

STOBER PE Series ServoFit® Precision Planetary Gearheads are available for applications where very low backlash is not a criteria. They are an economical helical tooth planetary, comparable in quality to other STOBER units.

PE Series units are shipped with a motor adapter to fit your specific motor, and can be supplied with a NEMA output adapter.

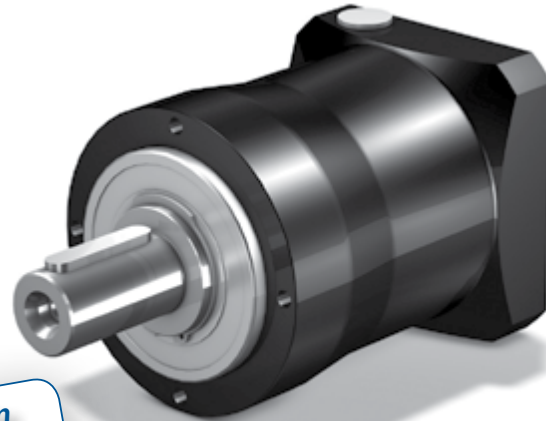
All units are lubricated for life with synthetic grease and enclosed to IP64 standards to prevent lubricant contamination for long life.

PE Series Advantages

- Readily attaches to any servo motor
- 95 to 97% efficiency
- 5 year limited warranty (2 years on bearings, seals, etc.)
- Input RPM up to 8,000
- Quiet running
- Wide selection of IEC, NEMA, or customized* motor plates
- Assembled in the U.S.A.

* Maximum 10 working days for custom motor mounting plates

**SHIPS in
1 DAY!**
NO EXPEDITE FEE FOR
24 HOUR SERVICE



PE Series Features

- Ratios 3:1 to 100:1
- Backlash <10 arcmins
- Ring gear machined integral to the housing – not welded or pressed in
- Single piece planet carrier and shaft for greater concentricity and more precise alignment
- Motor plate can easily be changed to fit your choice of motors
- The integrated motor coupling is designed to allow thermal expansion of the motor shaft—ensuring long motor life by preventing thrust load on the motor bearings

Optional Features

Large Input

- Accommodates a larger diameter motor shaft without going to a larger size gearbox

NEMA Output Face Adapter

- Shaft remains metric

Integrated Motor Adapter (MAI)

- Compact, one piece coupling design
- Economically priced
- Designed for the most popular servo motors



Overview

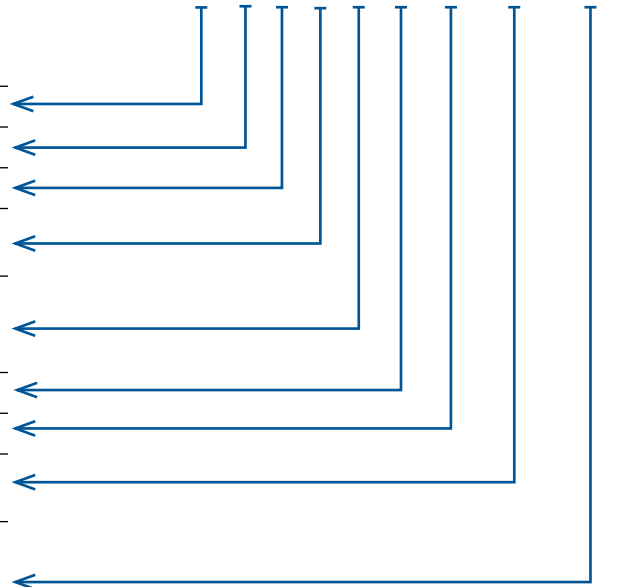
Selection Options *At-a-Glance*

PE Series Gearheads are available in a wide range of user-selected design options that tailor the gearhead to your motor choice and exact application requirements. Use the appropriate order codes on the following pages to build a part number for the complete gearhead assembly.

Part Number Example:

PE 2 1 1 S P R 0030 MA

Design Option	Part Number Code	Description
Series	PE	Economical planetary
Gearhead Size	2 3 4 5	4 sizes of gearhead
Generation	1	Version of gearhead
# of Stages	1 2	One stage for ratios ≤10:1 Two stage for ratios >10:1
Housing	S F	Standard mounting style Optional NEMA output face adapter (see page 61)
Output	P	Shaft with key
Bearing	R	Normal
Ratio	0030	Ratios range from 3:1 to 100:1 (0030=3:1; 0200=20:1; 1000=100:1)
Motor Adapter	MA MAI MAL	Motor adapter w/standard input Motor adapter w/integrated input Motor adapter w/large Input (See motor mounting plate option)



General Specifications

Efficiency	≥97% (1 stage); ≥95% (2 stage)
Lubrication	Synthetic grease (NLGI 2) – lubricated for life
Degree of Protection	IP 64
Mounting Position	Unrestricted
Direction of Rotation	Input and output rotate the SAME direction.
Ambient Temperature	0° C to +40°C (104° F) [Unit temperature ≤ 90° C Max.]
Coating	Black (RAL 9005)
Lifetime* Ln (hrs)	Ln > 10,000 hours if M2K/M2A < 1.25 Ln > 20,000 hours if M2K/M2A > 1.25
Warranty	5 Year Limited (2 years on normal wear items: bearings, seals, etc.)

* M2A equals actual tilting moment of the application. See page 53 for calculation details.

PE Series Performance Overview

PE Series performance is dependent on several factors including duty cycle, bearing design, gearhead size and stage configuration, among others. Use the chart below for preliminary evaluation, then use the following performance chart and selection information on the following pages for specific performance sizing and selection.

Size/Generation		PE21		PE31		PE41		PE51	
# of Stages		1	2	1	2	1	2	1	2
Permissible Acceleration Torque M_{2BMAX}	Nm	15	15	42	55	100	120	250	310
	in.lbs	133	133	372	487	886	1063	2215	2746
Output Torque Nom. M_{2NMAX}	Nm	7.5	7.5	23	30	50	65	130	160
	in.lbs	66	66	204	266	443	576	1152	1417
Torsional Stiffness C_2	Nm/arcmin	1.4	1.4	4.1	4.2	13	14	33	35
	in.lbs/arcmin	12	12	36.7	37.2	115.5	119.8	291.4	306.9
Torsional Backlash $\Delta\phi$	arcmin	≤10	≤13	≤8	≤10	≤8	≤10	≤8	≤10
Input Speed Max. n_{1MAX}	Continuous	4000		4000		3600		3000	
	Cyclic	8000		6000		6000		5000	
Efficiency (@nom torque)	%	1 Stage = 97; 2 Stage = 95							
Weight	kg	1.3	1.2	3.0	3.0	5.2	5.7	9.9	10.6
	lbs	2.87	2.65	6.61	6.61	11.46	12.57	21.83	23.37
Noise 3	dB(A)	≤60	≤60	≤62	≤61	≤64	≤63	≤65	≤64

1 Ratings based on input speed (n_i) of 1500 RPM.

For torque at higher input speeds (M_{2NX}) solve the formula:
where n_i = Actual Input Speed.

$$M_{2NX} = \frac{M_{2N}}{\sqrt[3]{\frac{n_i}{1500}}}$$

2 Tested at 1.5% of nominal torque and recorded on the output side of the gearhead. For lower backlash, contact STOBER technical support.

3 Measurement at one (1) meter distance with input speed (n_i) of 2000 RPM.

PE Series Motor Mounting Plate Option (Motor information required with Motor Adapter option)

STOBER ServoFit Gearheads fit the motor of your choice with the appropriate motor mounting plate assembled between the motor and the gearhead.

NOTE: When ordering a gearhead:

- Specify the motor manufacturer and part number
- Provide the motor drawing with dimensions, or specify the motor mounting dimensions (per the list shown at right)

For a precise dimension on a specific motor, or for general assistance, we recommend you contact STOBER Technical Support.

Customer Required Dimensions for Properly Sized Motor Mounting Plate

D ⁶	Motor Shaft Diameter (If an adapter bushing is required it will be supplied with the motor plate.)
D ⁷	Pilot Diameter
D ⁸	Bolt Circle Diameter
D ⁹	Bolt Diameter
L ¹¹	Motor Shaft Length
L ¹²	Pilot Length
L ¹⁴	Square Flange (Optional – motor plate will typically be made to match this dimension.)

Motor Mounting Plate Dimensions — mm (Gearhead Part Number Specific)	PE211	PE212	PE211...L PE311 PE312	PE311...L PE411 PE412	PE411...L PE511 PE512	PE511...L
	Maximum Allowed Motor Shaft Dia. D ⁶	14	19	24	32	38
Minimum Allowed Motor Plate Thickness L ^{9*}	15	18	21	24	26	

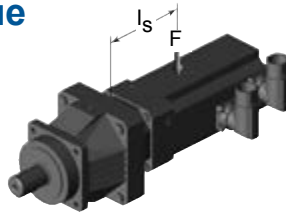
* Note that the L⁹ motor plate thickness is determined by the motor shaft length. The minimum motor plate thickness is the value listed.



Overview

Permissible Motor Tilting Torque

The permissible tilting torque of the motor attached to the gear unit is a result of the static and dynamic load "F" from the motor weight, mass acceleration, and vibration multiplied by the distance from the center of gravity "l_s" of the motor.



$$M_{1K} = F \times l_s \leq M_{1K}$$

M _{1K}	PE211 PE212	PE311 PE312	PE411 PE412	PE511 PE512
Nm	10	20	40	80
in.lbs	89	177	354	708

PE

INLINE – Solid Shaft Output

PE Permissible Output Shaft Load and Tilting Moments*

Unit	z ₂		F _{2A}		F _{2R}		M _{2K}	
	mm	in	N	lbs.	N	lbs.	Nm	in.lbs
PE211, PE212	8	0.31	400	90	800	180	13	115
PE311, PE312	11	0.43	800	180	1600	360	40	354
PE411, PE412	13	0.51	1900	427	2400	540	73	646
PE511, PE512	16	0.63	4000	900	4600	1035	206	1823

* Refer to illustration and definitions below. During EMERGENCY OFF operation (maximum stops per gearhead = 1000) the permissible values in the table for F_{2A}, F_{2R} and M_{2K} can be multiplied by a factor of 2. Rating based on output speed (n₂) of 100 RPM. For values at other speeds see below.

PE Series Load/Life/Speed Calculations

The permissible load and tilting moment values are based on an output speed of 100 RPM. For higher speeds the following applies, where n₂ is the desired speed:

$$F_{2AX} = \frac{F_{2A}}{\sqrt[3]{\frac{n_2}{100}}} \quad F_{2RX} = \frac{F_{2R}}{\sqrt[3]{\frac{n_2}{100}}} \quad M_{2KX} = \frac{M_{2K}}{\sqrt[3]{\frac{n_2}{100}}}$$

The application input tilting moment should be determined by the following formula:

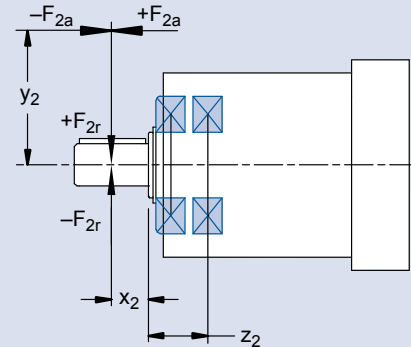
$$M_{2A} = \frac{2 \cdot F_{2a} \cdot y_2 + F_{2rb} \cdot (x_2 + z_2)}{1000} \leq M_{2KB}$$

Where:

- F_{2a}** Axial Load at Output Shaft
- F_{2A}** Permissible Axial Load
- F_{2r}** Radial Load at Output Shaft
- F_{2R}** Permissible Radial Load
- F_{2RB}** Acceleration Permissible Radial Load
- M_{2K}** Rated Tilting Torque
- M_{2k}** Equivalent Tilting Load
- z₂** Distance Factor

All formulas shown are based on METRIC values

Upper case letters are permissible values. Lower case letters are for existing values.



The hours of life (L_h) of the unit can be determined by the following formula:

bearing life for duty cycle ≤ 40%

$$L_h > 10,000 \text{ hours if } M_{2k}/M_{2A} < 1.25 \text{ and } > 1$$

$$L_h > 20,000 \text{ hours if } M_{2k}/M_{2A} > 1.25 \text{ and } > 1.5$$

bearing life for duty cycle ≥ 40%

$$L_{hA} = L_h \left(\frac{40\%}{\text{Duty Cycle}} \right)$$

PE Series: INLINE – Solid Shaft Output

Exact Ratio (i)	Output Torque						Part Number* (Gearhead + Input)	Maximum Input Speed RPM (n1)		Motor Shaft Max Ø D ⁶ mm	Input Inertia ³⁾ J ₁ kgcm ²	Torsional Stiffness C ₂ (per arcmin)		
	Nominal ¹⁾ M _{2N}		Acceleration M _{2B}		Peak ²⁾ M _{2PEAK}			Cont.	Cyclic			Nm		in.lbs.
	Nm	in.lbs.	Nm	in.lbs.	Nm	in.lbs.								Nm

PE211 One Stage

4.000	7	62	14	124	26	230	PE211_0040MA	4000	8000	>11≤14	0.106	1.4	12.1			
							PE211_0040MAI			≤14				0.108	1.4	12.1
							PE211_0040MAL			>14≤19				0.392	1.4	12.3
5.000	7.5	66	15	133	26	230	PE211_0050MA	4000	8000	>11≤14	0.102	1.3	11.9			
							PE211_0050MAI			≤14				0.104	1.3	11.9
							PE211_0050MAL			>14≤19				0.387	1.4	12.0
7.000	7.5	66	15	133	26	230	PE211_0070MA	4000	8000	>11≤14	0.096	1.3	11.2			
							PE211_0070MAI			≤14				0.086	1.3	11.2
							PE211_0070MAL			>14≤19				0.390	1.3	11.3
10.000	7	62	13	115	22	195	PE211_0100MA	4000	8000	>11≤14	0.094	1.1	9.8			
							PE211_0100MAI			≤14				0.084	1.1	9.8
							PE211_0100MAL			>14≤19				0.388	1.1	9.8

PE212 Two Stage

16.000	7.5	66	14	124	26	230	PE212_0160MA	4000	8000	>11≤14	0.104	1.4	12.0
20.000	7.5	66	15	133	26	230	PE212_0200MA	4000	8000	>11≤14	0.100	1.3	11.9
25.000	7.5	66	15	133	26	230	PE212_0250MA	4000	8000	>11≤14	0.100	1.3	11.9
28.000	7.5	66	14	124	26	230	PE212_0280MA	4000	8000	>11≤14	0.095	1.3	11.9
35.000	7.5	66	15	133	26	230	PE212_0350MA	4000	8000	>11≤14	0.095	1.3	11.2
40.000	7.5	66	14	124	26	230	PE212_0400MA	4000	8000	>11≤14	0.093	1.3	11.8
50.000	7.5	66	15	133	26	230	PE212_0500MA	4000	8000	>11≤14	0.093	1.3	11.7
70.000	7.5	66	15	133	26	230	PE212_0700MA	4000	8000	>11≤14	0.093	1.3	11.2
100.000	7.0	62	13	115	22	195	PE212_1000MA	4000	8000	>11≤14	0.093	1.1	9.7

¹⁾ Based on input speed of 1500 RPM. See page 53 for details on torque calculations.

²⁾ Maximum momentary torque for emergency stops or heavy shock load. (Admissible stops per life of gearhead = 1,000 stops maximum.)

³⁾ Inertia based on maximum input. For lower inertia, using smaller diameter input, contact STOBER.

* MA = Motor Accurate MAI = Motor Adapter Integrated L = Large Input Option



Selection Data

PE

INLINE – Solid Shaft Output

Exact Ratio (i)	Output Torque						Part Number* (Gearhead + Input)	Maximum Input Speed RPM (n1)		Motor Shaft Max Ø D ⁶ mm	Input Inertia ³⁾ J1 kgcm ²	Torsional Stiffness C2 (per arcmin)	
	Nominal ¹⁾ M2N		Acceleration M2B		Peak ²⁾ M2PEAK			Cont.	Cyclic			Nm	in.lbs.
	Nm	in.lbs.	Nm	in.lbs.	Nm	in.lbs.							

PE311 One Stage

3.000	21	186	40	354	65	576	PE311_0030MA	3500	6000	>14≤19	0.503	3.3	29.0
							PE311_0030MAI			≤19	0.606		
							PE311_0030MAL			>19≤24	0.990		
4.000	22	195	42	372	75	664	PE311_0040MA	3700	6000	>14≤19	0.445	4.0	35.3
							PE311_0040MAI			≤19	0.549		
							PE311_0040MAL			>19≤24	0.932		
5.000	23	204	40	354	75	664	PE311_0050MA	3700	6000	>14≤19	0.446	3.9	35.0
							PE311_0050MAI			≤19	0.549		
							PE311_0050MAL			>19≤24	0.933		
7.000	23	204	40	354	75	664	PE311_0070MA	4000	6000	>14≤19	0.397	3.8	33.3
							PE311_0070MAI			≤19	0.501		
							PE311_0070MAL			>19≤24	0.884		
10.000	19	168	37	328	75	664	PE311_0100MA	4000	6000	>14≤19	0.389	3.4	29.9
							PE311_0100MAI			≤19	0.492		
							PE311_0100MAL			>19≤24	0.876		

PE312 Two Stage

12.000	30	266	55	487	75	664	PE312_0120MA	3700	6000	>14≤19	0.485	4.1	36.7
							PE312_0120MAI			≤14	0.408		
15.000	23	204	40	354	75	664	PE312_0150MA	3700	6000	>14≤19	0.481	4.0	35.4
							PE312_0150MAI			≤14	0.404		
16.000	30	266	55	487	75	664	PE312_0160MA	3700	6000	>14≤19	0.430	4.2	37.2
							PE312_0160MAI			≤14	0.353		
20.000	30	266	55	487	75	664	PE312_0200MA	3700	6000	>14≤19	0.436	4.2	37.1
							PE312_0200MAI			≤14	0.359		
25.000	23	204	40	354	75	664	PE312_0250MA	3700	6000	>14≤19	0.430	4.0	35.6
							PE312_0250MAI			≤14	0.358		
28.000	30	266	55	487	75	664	PE312_0280MA	4000	6000	>14≤19	0.393	4.2	37.1
							PE312_0280MAI			≤14	0.316		
35.000	23	204	40	354	75	664	PE312_0350MA	4000	6000	>14≤19	0.392	4.0	35.7
							PE312_0350MAI			≤14	0.315		
40.000	30	266	55	487	75	664	PE312_0400MA	4000	6000	>14≤19	0.386	4.1	36.7
							PE312_0400MAI			≤14	0.310		
50.000	23	204	40	354	75	664	PE312_0500MA	4000	6000	>14≤19	0.386	4.0	35.4
							PE312_0500MAI			≤14	0.309		
70.000	23	204	40	354	75	664	PE312_0700MA	4000	6000	>14≤19	0.386	3.8	33.7
							PE312_0700MAI			≤14	0.309		
100.000	20	177	37	328	75	664	PE312_1000MA	4000	6000	>14≤19	0.386	3.4	30.0
							PE312_1000MAI			≤14	0.309		

¹⁾ Based on input speed of 1500 RPM. See page 53 for details on torque calculations.

²⁾ Maximum momentary torque for emergency stops or heavy shock load. (Admissible stops per life of gearhead = 1,000 stops maximum.)

³⁾ Inertia based on maximum input. For lower inertia, using smaller diameter input, contact STOBBER.

* MA = Motor Accurate MAI = Motor Adapter Integrated L = Large Input Option

PE Series: INLINE – Solid Shaft Output

Exact Ratio (i)	Output Torque						Part Number* (Gearhead + Input)	Maximum Input Speed RPM (n1)		Motor Shaft Max Ø D ⁶ mm	Input Inertia ³⁾ J1 kgcm ²	Torsional Stiffness C ₂ (per arcmin)	
	Nominal ¹⁾ M _{2N}		Acceleration M _{2B}		Peak ²⁾ M _{2PEAK}			Cont.	Cyclic			Nm	in.lbs.
	Nm	in.lbs.	Nm	in.lbs.	Nm	in.lbs.							

PE411 One Stage

3.000	45	399	90	797	180	1594	PE411_0030MA	3000	5500	>19≤24	1.412	11.7	103.6
							PE411_0030MAI			≤19	1.874	11.7	103.6
							PE411_0030MAL			>24≤32	3.025	12.1	107.2
4.000	50	443	100	886	190	1683	PE411_0040MA	3400	6000	>19≤24	1.150	12.8	113.1
							PE411_0040MAI			≤19	1.612	12.8	113.1
							PE411_0040MAL			>24≤32	2.763	13.0	115.5
5.000	50	443	100	886	190	1683	PE411_0050MA	3400	6000	>19≤24	1.163	12.2	108.4
							PE411_0050MAI			≤19	1.625	12.2	108.4
							PE411_0050MAL			>24≤32	2.777	12.4	109.8
7.000	50	443	100	886	190	1683	PE411_0070MA	3600	6000	>19≤24	0.934	11.5	101.8
							PE411_0070MAI			≤19	1.215	11.5	101.8
							PE411_0070MAL			>24≤32	2.572	11.6	102.6
10.000	45	399	90	797	190	1683	PE411_0100MA	3600	6000	>19≤24	0.895	10.1	89.4
							PE411_0100MAI			≤19	1.176	10.1	89.4
							PE411_0100MAL			>24≤32	2.533	10.1	89.8

PE412 Two Stage

12.000	65	576	120	1063	190	1683	PE412_0120MA	3400	5500	>19≤24	1.270	13.4	119.1
							PE412_0120MAI			≤19	1.732	13.4	119.1
15.000	50	443	100	886	190	1683	PE412_0150MA	3400	6000	>19≤24	1.270	12.4	110.1
							PE412_0150MAI			≤19	1.732	12.4	110.1
16.000	65	576	120	1063	190	1683	PE412_0160MA	3400	6000	>19≤24	1.070	13.5	119.8
							PE412_0160MAI			≤19	1.531	13.5	119.8
20.000	65	576	120	1063	190	1683	PE412_0200MA	3400	6000	>19≤24	1.113	13.5	119.5
							PE412_0200MAI			≤19	1.575	13.5	119.5
25.000	50	443	100	886	190	1683	PE412_0250MA	3400	6000	>19≤24	1.113	12.5	110.4
							PE412_0250MAI			≤19	1.575	12.5	110.4
28.000	65	576	120	1063	190	1683	PE412_0280MA	3600	6000	>19≤24	0.911	13.4	119.1
							PE412_0280MAI			≤19	1.192	13.4	119.1
35.000	50	443	100	886	190	1683	PE412_0350MA	3600	6000	>19≤24	0.911	12.4	110.2
							PE412_0350MAI			≤19	1.192	12.4	110.2
40.000	65	576	120	1063	190	1683	PE412_0400MA	3600	6000	>19≤24	0.883	13.3	117.8
							PE412_0400MAI			≤19	1.164	13.3	117.8
50.000	50	443	100	886	190	1683	PE412_0500MA	3600	6000	>19≤24	0.883	12.4	109.4
							PE412_0500MAI			≤19	1.164	12.4	109.4
70.000	50	443	100	886	190	1683	PE412_0700MA	3600	6000	>19≤24	0.881	11.6	102.7
							PE412_0700MAI			≤19	1.162	11.6	102.7
100.000	45	399	90	797	190	1683	PE412_1000MA	3600	6000	>19≤24	0.881	10.1	89.8
							PE412_1000MAI			≤19	1.162	10.1	89.8

¹⁾ Based on input speed of 1500 RPM. See page 53 for details on torque calculations.

²⁾ Maximum momentary torque for emergency stops or heavy shock load. (Admissible stops per life of gearhead = 1,000 stops maximum.)

³⁾ Inertia based on maximum input. For lower inertia, using smaller diameter input, contact STOBER.

* MA = Motor Accurate MAI = Motor Adapter Integrated L = Large Input Option



Selection Data

PE

INLINE – Solid Shaft Output

Exact Ratio (i)	Output Torque						Part Number* (Gearhead + Input)	Maximum Input Speed RPM (n1)		Motor Shaft Max Ø D ⁶ mm	Input Inertia ³⁾ J1 kgcm ²	Torsional Stiffness C ₂ (per arcmin)	
	Nominal ¹⁾ M _{2N}		Acceleration M _{2B}		Peak ²⁾ M _{2PEAK}			Cont.	Cyclic			Nm	in.lbs.
	Nm	in.lbs.	Nm	in.lbs.	Nm	in.lbs.							

PE511 One Stage

3.000	90	797	180	1594	392	3477	PE511_0030MA	2500	4500	>24≤32	2.685	29.5	261.2
							PE511_0030MAI			≤32	5.172	29.5	261.2
							PE511_0030MAL			>32≤38	6.459	31.6	280.0
4.000	130	1152	250	2215	400	3543	PE511_0040MA	2600	5000	>24≤32	3.077	31.6	279.6
							PE511_0040MAI			≤32	5.564	31.6	279.6
							PE511_0040MAL			>32≤38	6.851	32.9	291.4
5.000	130	1152	250	2215	400	3543	PE511_0050MA	2600	5000	>24≤32	2.887	31.6	280.2
							PE511_0050MAI			≤32	5.373	31.6	280.2
							PE511_0050MAL			>32≤38	6.661	32.5	287.6
7.000	130	1152	250	2215	400	3543	PE511_0070MA	2800	5000	>24≤32	2.650	29.9	265.1
							PE511_0070MAI			≤32	5.190	29.9	265.1
							PE511_0070MAL			>32≤38	6.420	30.4	269.1
10.000	110	974	220	1949	400	3543	PE511_0100MA	3000	5000	>24≤32	2.572	26.7	236.2
							PE511_0100MAI			≤32	5.112	26.7	236.2
							PE511_0100MAL			>32≤38	6.342	26.8	237.8

PE512 Two Stage

12.000	160	1417	310	2746	480	4252	PE512_0120MA	2500	4500	>24≤32	3.866	34.5	305.3
							PE512_0120MAI			≤19	5.172	34.4	304.5
15.000	130	1152	250	2215	480	4252	PE512_0150MA	2500	4500	>24≤32	3.843	32.8	290.5
							PE512_0150MAI			≤19	5.150	32.7	290.0
16.000	160	1417	310	2746	480	4252	PE512_0160MA	2600	5000	>24≤32	3.230	34.6	306.6
							PE512_0160MAI			≤19	4.537	34.6	306.2
20.000	160	1417	310	2746	480	4252	PE512_0200MA	2600	5000	>24≤32	2.986	34.6	306.9
							PE512_0200MAI			≤19	4.293	34.6	306.6
25.000	130	1152	250	2215	480	4252	PE512_0250MA	2600	5000	>24≤32	2.978	32.9	291.4
							PE512_0250MAI			≤19	4.285	32.9	291.3
28.000	160	1417	310	2746	480	4252	PE512_0280MA	2800	5000	>24≤32	2.687	34.5	306.0
							PE512_0280MAI			≤19	4.061	34.5	306.0
35.000	130	1152	250	2215	480	4252	PE512_0350MA	2800	5000	>24≤32	2.683	32.8	290.9
							PE512_0350MAI			≤19	4.057	32.8	290.9
40.000	160	1417	310	2746	480	4252	PE512_0400MA	3000	5000	>24≤32	2.590	34.2	302.9
							PE512_0400MAI			≤19	3.964	34.2	302.9
50.000	130	1152	250	2215	480	4252	PE512_0500MA	3000	5000	>24≤32	2.588	32.6	289.2
							PE512_0500MAI			≤19	3.962	32.6	289.2
70.000	130	1152	250	2215	480	4252	PE512_0700MA	3000	5000	>24≤32	2.587	30.6	270.9
							PE512_0700MAI			≤19	3.961	30.6	270.9
100.000	110	974	220	1949	480	4252	PE512_1000MA	3000	5000	>24≤32	2.586	26.9	238.4
							PE512_1000MAI			≤19	3.960	26.9	238.4

¹⁾ Based on input speed of 1500 RPM. See page 53 for details on torque calculations.

²⁾ Maximum momentary torque for emergency stops or heavy shock load. (Admissible stops per life of gearhead = 1,000 stops maximum.)

³⁾ Inertia based on maximum input. For lower inertia, using smaller diameter input, contact STOBBER.

* MA = Motor Accurate MAI = Motor Adapter Integrated L = Large Input Option