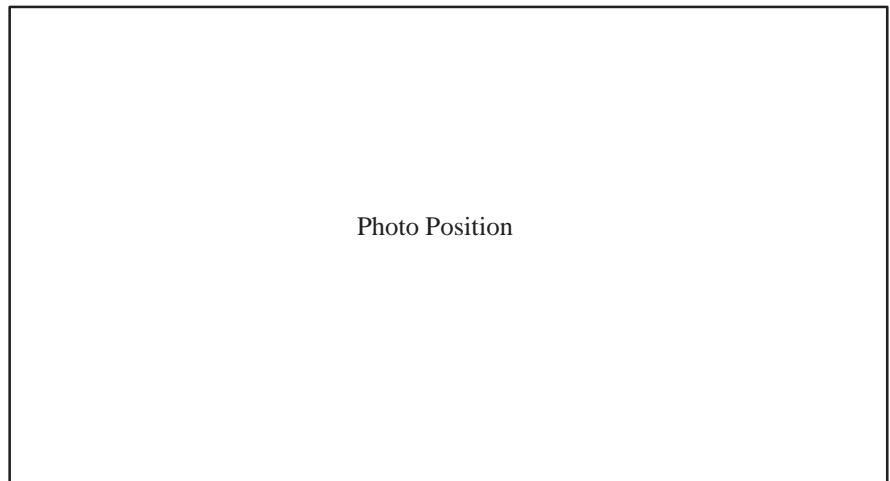




1326AB Planetary Gearbox for 1326AB AC Servomotors (Cat. No. 1326AB-MOD-PGxxx)

Product Data



The cost effective solution to increased torque. 1326AB Planetary Gearboxes provide increased torque from 1326A AC Servomotors. The inline gearbox boasts low backlash and high efficiency, resulting in positioning accuracy.

Mounts easily. The unique design of this gearbox allows easy mounting to the face of 1326AB AC Servomotors without special tools, a special shaft or special flange tolerances.

Small inline package. Adding the 1326AB Gearbox will typically result in simplified machine redesign. These gearboxes will add less than 250.4 mm (10 inches) to the overall length of the motor. Three frame sizes are available to fit A, B and C Series 1326AB AC Servomotors.

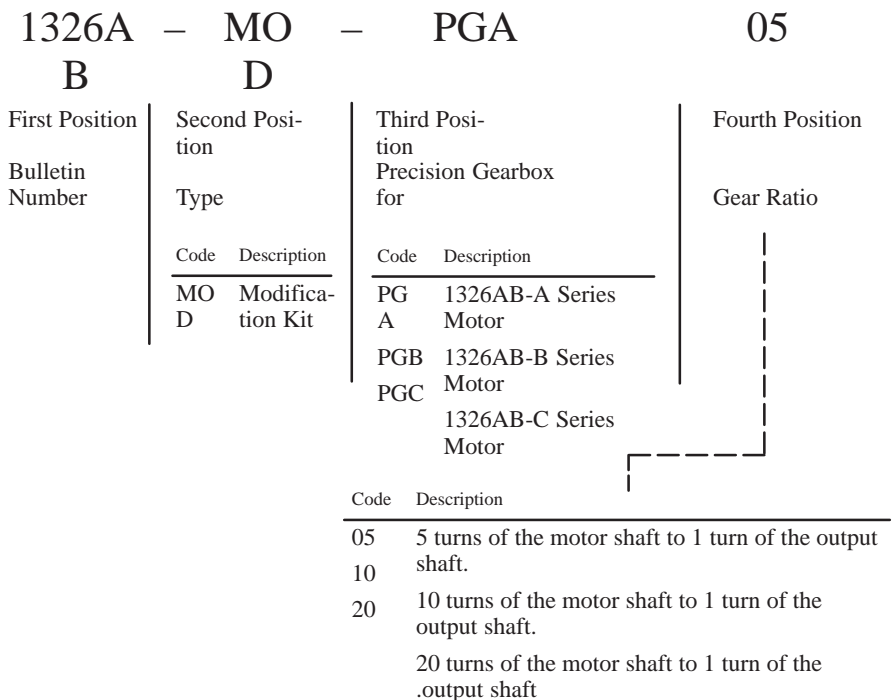
Standard Features

Standard features of the 1326A Gearbox include:

- n Twin torque-tube bearings and multiple contact planetary design provide superior load carrying capabilities in a compact package.
- n Standard gear ratios of 5:1, 10:1 and 20:1.
- n Accurate and smooth output resulting from precision gears.
- n Maximum backlash of 10 arc-minutes (at output shaft).
- n Exceptional torsional stiffness achieved by non-cantilevered design and increased load capability ball and needle bearings.
- n Efficiency above 90%.
- n Permanently lubricated to eliminate maintenance.
- n Simplified mounting through the use of a clamp-on pinion. Exclusive spur gearhead input section allows mounting without difficult alignment.
- n IP 65 rated.
- n Superior life is assured with hardened stainless steel, single-piece gears; stainless steel bearings; tempered (6061-T6), anodized aluminum alloy housing; and sealed housing.

Catalog Number Explanation

An explanation of the 1326AB Gearbox catalog number is shown below.



Selection Data

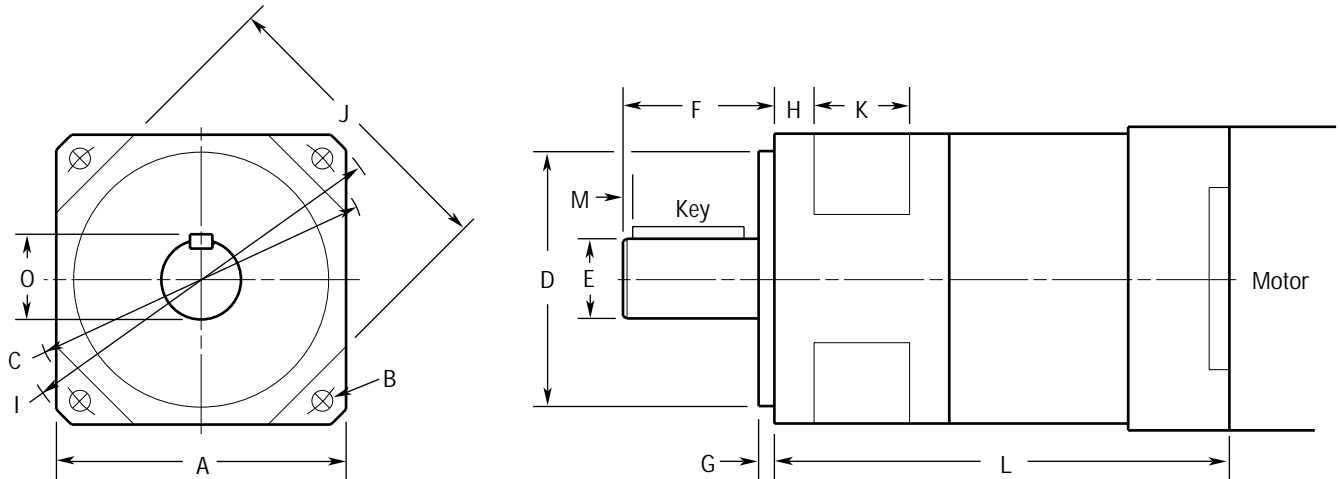
Table A provides selection data for the 1326AB Gearbox when used with 1326AB AC Servomotors.

Table A
Selection Data

Motor Catalog Number	Motor Torque Cont./Peak N-m (lb.-in.)	Gear Ratio	Gearbox Catalog Number	Maximum Output Spd. 1391	Maximum Output Spd. 1391B-ES	Output Torque Cont./Peak N-m (lb.-in.)
1326AB-A1G	1.8 / 3.6 (16 / 32)	5:1	1326AB-MOD-PGA05	1000	1200	8.1 / 16.3 (72 / 144)
		10:1	1326AB-MOD-PGA10	500	600	16.3 / 32.5 (144 / 288)
		20:1	1326AB-MOD-PGA20	250	300	32.5 / 65.1 (288 / 576)
1326AB-A2E	3.6 / 7.23 (32 / 64)	5:1	1326AB-MOD-PGA05	600	800	16.3 / 32.5 (144 / 288)
		10:1	1326AB-MOD-PGA10	300	400	32.5 / 65.1 (288 / 576)
		20:1	1326AB-MOD-PGA20	150	200	65.1 / 130.2 (576 / 1152)
1326AB-A3E	5.4 / 10.84 (48 / 96)	5:1	1326AB-MOD-PGA05	600	800	24.4 / 48.8 (216 / 432)
		10:1	1326AB-MOD-PGA10	300	400	48.8 / 97.6 (432 / 864)
		20:1	1326AB-MOD-PGA20	150	200	97.6 / 195.3 (864 / 1728)
1326AB-B2E	11.5 / 23.0 (102 / 204)	5:1	1326AB-MOD-PGB05	600	800	51.9 / 103.7 (459 / 918)
		10:1	1326AB-MOD-PGB10	300	400	103.7 / 207.5 (918 / 1836)
		20:1	1326AB-MOD-PGB20	150	200	207.5 / 414.9 (1836 / 3672)
1326AB-B3E	17.3 / 34.6 (153 / 306)	5:1	1326AB-MOD-PGB05	600	800	77.7 / 155.5 (688 / 1376)
		10:1	1326AB-MOD-PGB10	300	400	155.5 / 311.2 (1376 / 2754)
		20:1	1326AB-MOD-PGB20	150	200	311.2 / 622.4 (2754 / 5508)
1326AB-C2E	23.7 / 47.5 (210 / 420)	5:1	1326AB-MOD-PGC05	600	800	106.8 / 213.6 (945 / 1890)
		10:1	1326AB-MOD-PGC10	300	400	213.6 / 427.1 (1890 / 3780)
		20:1	1326AB-MOD-PGC20	150	200	427.1 / 854.3 (3780 / 7560)
1326AB-C3E	35.0 / 64.1 (310 / 568)	5:1	1326AB-MOD-PGC05	600	800	157.6 / 288.8 (1395 / 2556)
		10:1	1326AB-MOD-PGC10	300	400	315.3 / 577.7 (2790 / 5112)
		20:1	1326AB-MOD-PGC20	150	200	630.5 / 1155.3(5580/10224)
1326AB-C4C	47.4 / 91.7 (420 / 811)	5:1	1326AB-MOD-PGC05	400	600	213.6 / 412.4 (1890 / 3650)
		10:1	1326AB-MOD-PGC10	200	300	427.1 / 824.8 (3780 / 7299)
		20:1	1326AB-MOD-PGC20	100	150	854.3 / 1649.6(7560/14598)
1326AB-C4B	47.4 / 94.8 (420 / 840)	5:1	1326AB-MOD-PGC05	320	400	213.6 / 427.1 (1890 / 3780)
		10:1	1326AB-MOD-PGC10	160	200	427.1 / 854.3 (3780 / 7560)
		20:1	1326AB-MOD-PGC20	80	100	854.3 / 1695.0

¹ Limited by gearbox (7560 / 15000¹)

Figure 2
1326AB Gearbox Dimensions

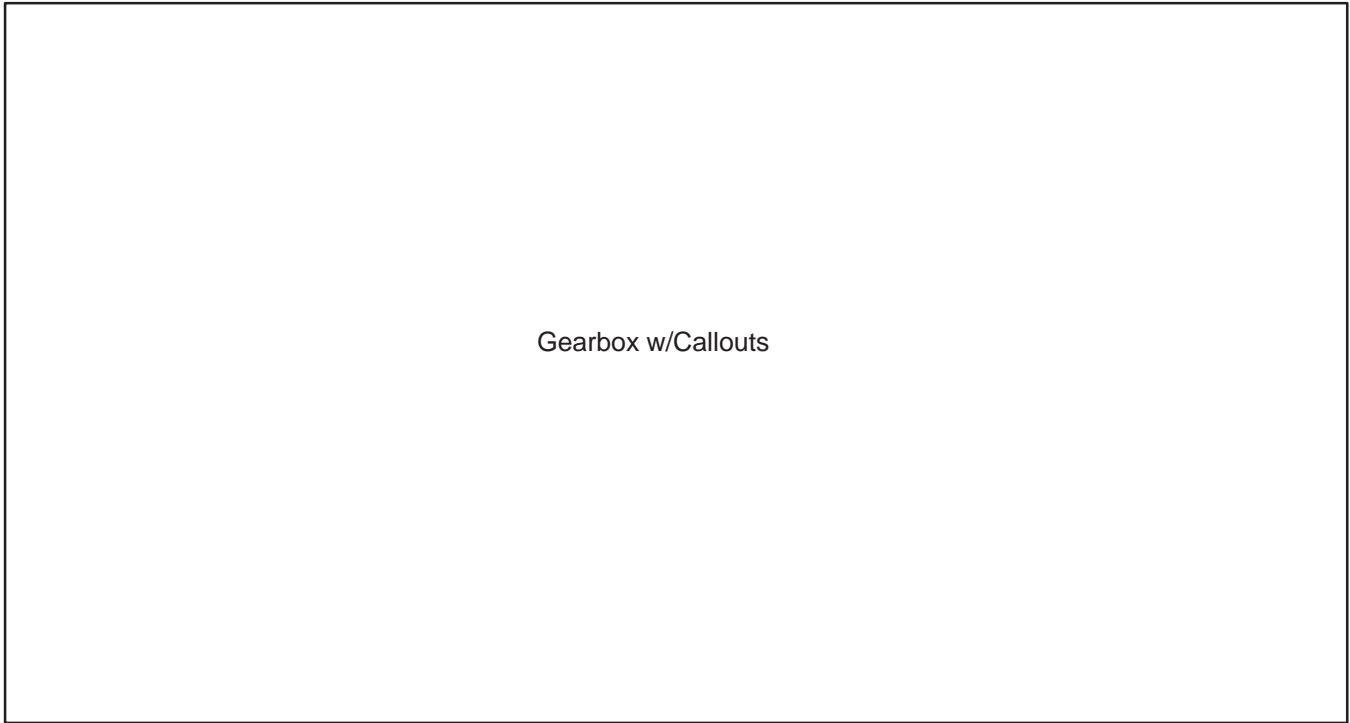


Dimensions are in millimeters and (inches)

Cat. #	A	B	C	D ³	E ³	F	G	H	I	J	K	L	M	O ⁴	Key ⁵
Axx	115	8.5	130	110	24	50	3.5	14	145	115	35	155	7	27	32 x 8
	(4.53)	(0.335 ¹)	(5.12)	(4.33)	(0.945)	(1.97)	(0.138)	(0.55)	(5.71)	(4.53)	(1.38)	(6.11)	(0.276)	(1.064)	(1.260 x
															0.315)
Bxx	142	11	165	130	40	80	3.5	20	185	140	52	257	8	43	60 x 12
	(5.59)	(0.433 ¹)	(6.50)	(5.12)	(1.575)	(3.15)	(0.138)	(0.79)	(7.28)	(5.51)	(2.05)	(10.10)	(0.315)	(1.693)	(2.362 x
															0.422)
Cxx	182	13	215	160	50	95	10	25	244	188	60	285	6	59	70 x 14
	¹ _{+0.13/-0.00}	² _(0.515)	² _(8.47)	³ _{+0.25/-0.00}	³ _(1.969)	³ _(3.74)	³ _{+0.00/-0.05}	³ _(0.98)	⁴ _(9.60)	⁴ _{+0.00/-0.51}	⁴ _(2.36)	⁵ _(11.24)	⁵ _{+0.00/-0.25}	⁵ _(2.75)	⁵ _{+0.00/-0.05}
	_(±0.005/-0.000)			_(±0.010/-0.000)			_(±0.000/-0.001)			_(±0.000/-0.020)			_(±0.000/-0.010)		_(±0.000/-0.002)

Note: For detailed motor dimensions, refer to the 1326AB AC Servomotor Product Data (publication 1326A-2.3).

Figure 1
1326AB Gearbox



Gearbox w/Callouts

Specifications

Catalog Number 1326AB-MOD-	Axx	Bxx	Cxx
Rated Torque (N-m / lb.-in.)	180.8 / 1600	519.8 / 4600	904.0 / 8000
Peak Torque (N-m / lb.-in.)	300.1 / 2656	862.9 / 7636	1695.0 / 15000
Rated Input Speed (rpm)	4000 ¹	4000	4000
Maximum Backlash (arc-minutes)	10	10	10
Minimum Efficiency	90%	90%	90%
Maximum Moment of Inertia (kg-cm ² / oz.-in.-s ²)	0.4479/ 0.0065	3.677/ 0.050	6.250/ 0.085
Torsional Stiffness (N-m/min / lb.-in./min)	28.3 / 250	53.7 / 475	90.4 / 800
Max. Weight (kg / lbs.)	5.4 / 12	11.3 / 25	29.5 / 65
Radial Load ² (kg / lbs.)	499.0 / 1100	816.5 / 1800	1270.1 / 2800
Axial Load ² (kg / lbs.)	499.0 / 1100	816.5 / 1800	1270.1 / 2800

¹ Up to 6000 rpm at reduced loads.

² Radial loads are 19.1mm (0.75") from the face of the gearbox. Radial and axial loads are static ratings, specified independently from torque and speed ratings. Please contact Allen-Bradley for high radial and axial load applications.



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