





Introducing new gearing solutions from Boston Gear and Bauer Gear Motor

These two well recognized Altra Industrial Motion brands have combined their gearing expertise to offer the innovative Series 2000 product line.

Boston Gear and Bauer Gear Motor products have a reputation for superior engineering, quality manufacturing and reliable performance.

As industry leaders, we have extensive experience and application knowledge in industries including material handling, food processing, packaging, bottling, and metals.

For more information about Series 2000 Gear Drives or Gear Motors call:

888-243-3447



Series 2000 Right Angle Helical Bevel Gear Drives and Gear Motors

Loaded with unique performance and convenience features to meet a wide variety of application requirements.

We asked OEMs, end users and distributors what mattered most when it came to gear motor design. Their responses helped guide us in the development of the new Series 2000 Gear Motor product line.

Series 2000 Advantages

- Altra's Competitive Displacement Product Offering
 - Designed with critical dimensions equivalent to select competitive gear drives
- Enhanced performance
 - High torque with ratings in accordance with AGMA standards provide long life and potential downsizing
 - Tested to an effective 25.000 hours. Proven ratings vs. theoretical
- Design Flexibility
 - Large assortment of shaft options for more application flexibility
 - Variety of optional hollow bore sizes available for quick delivery
 - Variety of input styles including NEMA and IEC C-FACE motor mounts
- Fast and Easy Installation
 - Unique mounting registers for quick, precision alignment
 - Keyless tapered bushing provides quick and secure installation of drive shaft
- Low Maintenance
 - Unique rounded surfaces allow for easier cleaning
 - Premium acrylic paint emulsion pigmented with alloy 316 stainless steel flake provides high corrosion & abrasion resistance for long term durability
 - **Integrated O-rings** at mounting interfaces provide high leak and ingress resistance
 - Automatic entrapment of wear debris for longer life
 - Large diameter oil fill/drain holes for fast oil changes
 - Synthetic lubrication extends gear life

Series 2000 Gear Drives and Gear Motors are Dimensional Drop-In Replacements for SEW Eurodrive™ KA Series products

Application Examples:

- Cheese slicers
- Dairy and bakery mixers
- Spiral heating and cooling racks
- Potato chip salter
- Produce drying bins (tumblers)
- Meat forming (links, patties, grinding)
- Meat carcass processing
- Bottling lines
- Unit conveyors
- Palletizers

Boston Gear - C-Face and Projecting Input Shaft



Optional unique keyless tapered bushing provides longer life and faster installation Stainless steel shafts also available

Unique mounting registers allow for quick precision alignment

Unique rounded housing surfaces for easier cleaning

Unique Two-Tuff premium acrylic paint (standard)

Washdown epoxy paint (optional)



synthetic oil (Standard)

Larger diameter oil fill/drain holes for faster oil changes

Integrated O-rings

NEMA or IEC C-Face motor input with 3-Jaw coupling



Energy Efficient Design

With efficiency of 98% per gear mesh, Series 2000 helical bevel reducers are ideal for use in applications with:

- continuous or high duty cycle operations
- high-ratio reduction
- limited access applications where long life is a necessity



Projecting input shaft and stainless steel shafts available

Bauer Gear Motor - Integral Gear Motors



Output Torque Comparison

2033R Series													
Ratio	5.36	6.42	6.76	7.96	8.91	10.67	12.14	13.02	15.32	17.15	20.54	23.36	24.99
Output Torque Rating (lbf-in)	1,325	1,409	1,428	1,462	1,514	1,526	1,484	1,532	1,679	1,704	1,831	1,840	1,844
Improvement Over SEW	10%	11%	11%	10%	11%	9%	8%	9%	10%	10%	10%	9%	9%
2043R Series													
Ratio	5.62	6.58	7.36	8.63	9.06	10.56	11.77	12.19	13.65	15.99	16.80	19.58	21.81
Output Torque Rating (lbf-in)	2,149	2,301	2,414	2,371	2,431	2,539	2,539	3,326	3,385	3,504	3,512	3,534	3,549
Improvement Over SEW	12%	11%	12%	2%	1%	7%	6%	10%	10%	6%	8%	3%	3%
2063R Series													
Ratio	7.28	8.37	9.66	10.63	12.41	13.22	15.19	17.53	19.29	22.53	23.60	27.27	30.21
Output Torque Rating (lbf-in)	3,906	4,179	4,435	4,456	4,488	6,389	6,714	7,059	7,216	7,432	7,445	7,779	7,913
Improvement Over SEW	8%	11%	7%	3%	-1%	11%	11%	10%	11%	11%	9%	11%	12%
2073R Series													
Ratio	7.24	8.48	9.56	10.84	12.35	13.52	15.84	17.86	20.24	23.08	25.20	29.12	30.40
Output Torque Rating (lbf-in)	7,938	8,298	8,731	9,006	9,006	12,781	13,224	13,592	13,668	13,746	13,796	13,318	13,418
Improvement Over SEW	11%	9%	7%	6%	5%	10%	10%	9%	6%	3%	6%	0%	2%
2093R Series													
Ratio	7.54	8.71	10.42	11.99	13.85	16.56	18.96	22.37	24.74	27.90	30.81	34.22	38.29
Output Torque Rating (lbf-in)	17,257	24,667	27,706	35,584	37,646	38,187	38,591	39,078	39,371	39,717	40,000	40,297	39,250
Improvement Over SEW	10%	6%	11%	6%	0%	2%	5%	5%	7%	5%	7%	9%	8%

28.83	29.96	35.85	37.79	44.46	49.79	59.61	67.80	72.54	83.69	97.81	106.38
1,854	1,856	1,868	1,871	1,881	1,887	1,898	1,905	1,909	1,917	1,925	1,930
10%	6%	5%	10%	7%	7%	6%	8%	8%	7%	10%	9%

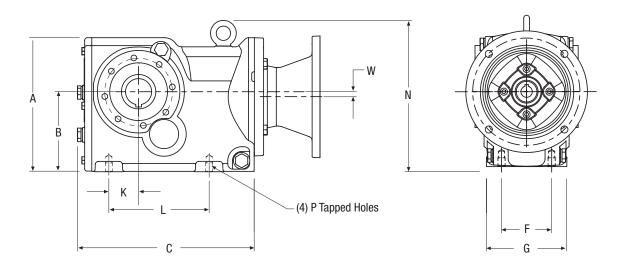
24.42	25.91	29.30	30.23	35.39	39.61	46.41	48.75	56.83	63.30	70.89	75.20	85.12	90.86	104.37	121.48	131.87
3,564	3,572	3,588	3,592	3,612	3,626	3,645	3,651	3,669	3,681	3,694	3,700	3,714	3,721	3,735	3,751	3,759
1%	2%	4%	10%	3%	2%	3%	4%	2%	7%	5%	9%	6%	6%	6%	6%	5%

35.61	38.39	44.32	48.77	56.97	59.67	68.95	76.37	90.04	101.43	108.03	123.54	143.20
7,565	7,546	7,579	7,601	7,635	7,651	7,674	7,696	7,724	7,746	7,751	7,774	7,796
7%	9%	5%	5%	6%	9%	7%	7%	6%	6%	6%	7%	10%

34.84	38.39	40.04	45.16	51.18	58.34	63.71	73.62	76.87	88.08	97.05	113.56	127.32	135.28	154.02	177.76	192.18
13,505	14,027	14,049	14,111	14,173	14,238	14,280	14,348	14,368	14,430	14,473	14,542	14,591	14,616	14,670	14,038	14,384
2%	8%	4%	3%	4%	4%	6%	6%	6%	7%	7%	9%	6%	9%	6%	9%	10%

41.87	47.93	56.55	62.55	70.54	77.89	86.52	96.80	105.13	123.40	139.49	152.36	176.05
40,861	41,234	41,686	41,958	42,281	42,459	41,517	42,392	41,435	41,750	42,155	42,315	37,398
8%	8%	10%	10%	11%	12%	10%	12%	9%	10%	12%	12%	-2%

Dimensional Comparison



Size	Brand	Model	A	В	C	G	F	L	K	Р	w
30	Boston	2033R	6.40	3.94	8.46	4.01	2.36	4.61	1.38	M10	0.33
	SEW	KA37	6.46	3.94	8.27	3.94	2.36	4.61	1.38	M10	0.33
	Nord*	SK92672	6.50	3.94	11.02	6.14	4.72	5.12	1.38	0.43	-2.68
	Dodge	BF38 (flanged)	6.58	3.94	9.21	3.94	2.36	4.61	1.38	M10	0.37
40	Boston	2043R	7.37	4.41	9.71	4.42	2.76	5.51	1.57	M10	0.28
	SEW	KA47	7.28	4.41	9.57	4.33	2.76	5.51	1.57	M10	0.28
	Nord*	SK901	7.64	4.41	9.37	5.59	4.72	5.12	1.38	0.43	0.39
	Dodge	BF48 (flanged)	7.36	4.41	10.37	4.33	2.76	5.51	1.58	M10	0.43
60	Boston	2063R	8.91	5.51	11.12	5.12	3.46	5.98	1.65	M12	0.80
	SEW	KA67	8.90	5.51	10.79	5.12	3.46	5.98	1.65	M12	0.79
	Nord*	SK902	9.29	5.51	11.42	6.77	5.51	4.72	1.18	0.55	0.55
	Dodge	BF68 (flanged)	9.09	5.51	12.15	5.51	3.46	5.98	1.65	M12	0.26
70	Boston	2073R	11.25	7.09	12.91	6.06	4.02	6.69	1.89	M16	1.23
	SEW	KA77	11.26	7.09	12.28	6.06	4.02	6.69	1.89	M16	1.23
	Nord*	SK903	11.61	7.09	12.56	7.87	6.50	5.91	1.57	0.71	0.94
	Dodge	BF88 (flanged)	11.61	7.09	14.64	6.69	4.53	6.69	1.89	M16	0.79
90	Boston	2093R	16.14	10.43	17.56	9.35	6.30	9.77	3.27	M20	1.27
	SEW	KA97	16.30	10.43	17.13	8.90	6.30	9.77	3.27	M20	1.27
	Nord*	SK905	16.73	10.43	18.11	11.53	9.45	9.45	2.95	1.02	1.61
	Dodge	BF128 (flanged)	16.65	10.43	20.77	10.04	7.68	9.76	3.27	M20	0.79

Note: Nord does not have a 'bolt-up' model

Interchange Guide

BASE PART NUMBERS

EXAMPLES: SEW Reducer: KA37 AM 56 To add a motor, replace AM with **DT71C4** SEW Gearmotor: KA37 DT71C4 56

BOSTON Reducer: RF 2033R **B**5 To add a motor, replace RF with GE

BAUER Gearmotor: **GE 2033R**

Boston Gear 2000 Series	SEW K Series	Model Description
RF2033R	KA37 AM	C-Face, Hollow Output Shaft
RF2043R	KA47 AM	C-Face, Hollow Output Shaft
RF2063R	KA67 AM	C-Face, Hollow Output Shaft
RF2073R	KA77 AM	C-Face, Hollow Output Shaft
RF2093R	KA97 AM	C-Face, Hollow Output Shaft
RF2033RFG	KAF37 AM	C-Face, Hollow Output Shaft, Output Flange (B5 type)
RF2043RFG	KAF47 AM	C-Face, Hollow Output Shaft, Output Flange (B5 type)
RF2063RFG	KAF67 AM	C-Face, Hollow Output Shaft, Output Flange (B5 type)
RF2073RFG	KAF77 AM	C-Face, Hollow Output Shaft, Output Flange (B5 type)
RF2093RFG	KAF97 AM	C-Face, Hollow Output Shaft, Output Flange (B5 type)
RF2033RTG	KAF37TA AM	C-Face, Hollow Output Shaft, Torque Arm (left)
RF2043RTG	KAF47TA AM	C-Face, Hollow Output Shaft, Torque Arm (left)
RF2063RTG	KAF67TA AM	C-Face, Hollow Output Shaft, Torque Arm (left)
RF2073RTG	KAF77TA AM	C-Face, Hollow Output Shaft, Torque Arm (left)
RF2093RTG	KAF97TA AM	C-Face, Hollow Output Shaft, Torque Arm (left)
RF2033RTJ	KAF37TB AM	C-Face, Hollow Output Shaft, Torque Arm (right)
RF2043RTJ	KAF47TB AM	C-Face, Hollow Output Shaft, Torque Arm (right)
RF2063RTJ	KAF67TB AM	C-Face, Hollow Output Shaft, Torque Arm (right)
RF2073RTJ	KAF77TB AM	C-Face, Hollow Output Shaft, Torque Arm (right)
RF2093RTJ	KAF97TB AM	C-Face, Hollow Output Shaft, Torque Arm (right)
RF2033R TP15	KT37 AM	C-Face, Hollow Output Shaft, Tapered
RF2043R TP20	KT47 AM	C-Face, Hollow Output Shaft, Tapered
RF2063R TP24	KT67 AM	C-Face, Hollow Output Shaft, Tapered
RF2073R TP28	KT77 AM	C-Face, Hollow Output Shaft, Tapered

INPUT NEMA SUFFIX NUMBERS

Boston Gear 2000 Series	SEW K Series	Model Description
	Input Designation	AM Suffix
B5	AM56	C-Face Nema size 56C
В7	AM145	C-Face Nema size 140TC
B9	AM182	C-Face Nema size 180TC

MOTOR NUMBERS

Bauer Gear Motor 2000 Series	SEW K Series	Model Description
Replace RF with:	Replace AM with:	
GE	DT71C4	0.33 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GF	DT71D4	0.50 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GG	DT80K4	0.75 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GH	DT80N4	1.0 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GJ	DT90S4	1.5 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GK	DT90L4	2 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GL	DT100LS4	3 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GM	DT100L4	5 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GN	DV132S4	7.5 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GP	DV132M4	10 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz
GR	DV160M4	15 HP motor, TEFC, 208-230/460VAC, 3Phase, 60Hz

Note: Soon-to-be released Base Mounting Feet option will make Boston a drop-in replacement for the K37 - K97 models in all dimensions except output shaft height.

Boston does not have an interchange for the 57, 87, 107, 127, 157, 167 and 187 sizes.

For the KH (shrink-disc model), Boston would recommend Tapered Hollow Output option.

For the KV (spline output shaft model), Boston would specify a custom unit (outside of the standard product line).

For the KZ (B14 output flange model), Boston would specify a custom unit (outside of the standard product line).

Electromagnetic Clutches and Brakes

Warner Electric

Electromagnetic Clutches and Brakes

New Hartford, CT - USA 1-800-825-6544

For application assistance: 1-800-825-9050

St Barthelemy d'Anjou, France +33 (0) 2 41 21 24 24

Precision Electric Coils and Electromagnetic Clutches and Brakes

Columbia City, IN - USA 1-260-244-6183

Matrix International

Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes

Brechin, Scotland +44 (0) 1356 602000

New Hartford, CT - USA 1-800-825-6544

Inertia Dynamics

Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes

New Hartford, CT - USA 1-800-800-6445

Linear Products

Warner Linear

Linear Actuators
Belvidere, IL - USA
1-800-825-6544

For application assistance: 1-800-825-9050

St Barthelemy d'Anjou, France +33 (0) 2 41 21 24 24

Couplings

Ameridrives Couplings

Mill Spindles, Ameriflex, Ameridisc

Erie, PA - USA 1-814-480-5000

Gear Couplings

San Marcos, TX - USA 1-800-458-0887

Bibby Transmissions

Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England +44 (0) 1924 460801

Boksburg, South Africa +27 11 918 4270

TB Wood's

Elastomeric Couplings Chambersburg, PA - USA 1-888-829-6637- Press #5

For application assistance: 1-888-829-6637 — Press #7

General Purpose Disc Couplings

San Marcos, TX - USA 1-888-449-9439

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings

Green Bay, WI - USA 1-920-593-2444

Huco Dynatork

Precision Couplings and Air Motors

Hertford, England +44 (0) 1992 501900

Charlotte, NC - USA 1-800-825-6544

Heavy Duty Clutches and Brakes

Wichita Clutch

Pneumatic Clutches and Brakes

Wichita Falls, TX - USA 1-800-964-3262 Bedford, England +44 (0) 1234 350311

Twiflex Limited

Caliper Brakes and Thrusters
Twickenham, England
+44 (0) 20 8894 1161

Industrial Clutch

Pneumatic and Oil Immersed Clutches and Brakes

Waukesha, WI - USA 1-262-547-3357

Gearing

Boston Gear

Enclosed and Open Gearing, Electrical and Mechanical P.T. Components

Charlotte, NC - USA 1-800-825-6544

For application assistance: 1-800-816-5608

Bauer Gear Motor

Geared Motors

Esslingen, Germany +49 (711) 3518-0

Nuttall Gear and Delroyd Worm Gear

Worm Gear and Helical Speed Reducers

Niagara Falls, NY - USA 1-716-298-4100

Overrunning Clutches

Formsprag Clutch

Overrunning Clutches and Holdbacks

Warren, MI - USA 1-800-348-0881- Press #1

For application assistance: 1-800-348-0881 — Press #2

Marland Clutch

Roller Ramp and Sprag Type Overrunning Clutches and Backstops

South Beloit, IL - USA 1-800-216-3515

Stieber Clutch

Overrunning Clutches and Holdbacks

Heidelberg, Germany +49 (0) 6221 30 47 0

Belted Drives and Sheaves

TB Wood's

Relted Drives

Chambersburg, PA - USA 1-888-829-6637 – Press #5

For application assistance: 1-888-829-6637 — Press #7

Engineered Bearing Assemblies

Kilian Manufacturing

Engineered Bearing Assemblies

Syracuse, NY - USA 1-315-432-0700

For information concerning our sales offices in Asia Pacific check our website www.altramotion.com.cn



Boston[®]
Gear

An Altra Industrial Motion Company

www.bostongear.com

701 Carrier Drive Charlotte, NC 28216 - USA Phone: 704-588-5610 Fax: 704-588-7181 Customer Service: 800-825-6544 Application Assistance: 800-816-5608

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An Altra Industrial Motion Company

Somerset, NJ 08873 - USA Phone: 732-469-8770 Fax: 732-469-8773