

Washdown Gear Drives & Gear Motors for the Food & Beverage Industry

The Best Choice for Food & Beverage Safety

> The original Domed Crown³ Design







ALTRA INDUSTRIAL MOTION PROVIDES POWER TRANSMISSION SOLUTIONS FOR THE FOOD AND BEVERAGE INDUSTRY

Tightened federal regulations regarding food safety and hygiene in food processing and beverage industries has forced producers to continue to adapt their equipment to meet those changing requirements.

The areas in production facilities where drive systems are located are often the areas that have the most stringent requirements for hygiene and sanitation, due to their proximity to the food product. The key to food safety is prevention of microbial contamination and bacteria growth. Equipment in these areas needs to be resistant to alkali or acid based cleaning agents and disinfectants. This is the primary focus of most HACCP analyses.



For installations where the drive system is located above the food product, there is a higher risk of product contamination due to rigorous cleaning standards. For these installations special attention must be given to drive design & materials, so that bacterial growth on surfaces will be avoided. Drive systems with the most extreme protection such as stainless steel and aseptic units are most often utilized in these applications.

For installations located near but below the food line, exposure is less likely but still possible. Therefore, it is recommended that the drive units be readily accessible, easy to clean, and have resistance to commonly used cleaning products. In these applications, painted drive systems are often used.

In other areas of the plant where there is no contact with open product flow, the hygiene requirements are typically less strict, allowing for standard finish drive products.

Some producers use highly caustic wash down solutions; others use high-pressure hot water. Equipment can also be exposed to process by-products such as sugar, seasonings, brines, or animal blood. Whatever challenges the integrity of your drive system, Altra has a solution for you. The family of gearing & motor products manufactured by Boston Gear and Bauer Gear Motor includes varying degrees of protection against the harsh elements increasingly used in the prevention of microbial contamination and bacterial growth in hygiene sensitive environments.

www.AltraFoodandBeverage.com

AS THE LEADING INNOVATORS IN GEARING & GEAR MOTOR TECHNOLOGY ...

Boston Gear and Bauer Gear Motor provide a full complement of worm and helical gear drives together with helical, bevel and parallel shaft gear motors with varying degrees of sanitary protection to meet the needs of the diverse requirements within a production facility. Boston Gear products enable flexible motor assembly independent of the manufacturer while the gear motor solutions from Bauer Gear Motor provide compact space saving integral geared motor solutions. The varying drive system products shown below are designed for not only for harsh-duty washdown typically located at or above the food product but also for applications where hygiene and cleanability are of upmost importance.

STAINLESS STEEL Highest mechanical resilience in washdown applications

BOSTON SERIES GEAR DRIVES

Right Angle

Right Angle

Helical Bevel Gear Drive SS2000R Series

Worm Gear Speed Reducer

Helical Inline Gear Drive SS2000 Series

Inline

Inline



Helical Gear Motor Series BG – SS





Helical Bevel Gear Motor HiflexDRIVE – SS

SHAFT ACCESSORIES



Mounted Bearings



Jaw Couplings



Universal Joints

Inline



Shaft Collars

ASEPTIC Guarantees highest hygiene levels through smooth water repellant coated surfaces

BAUER SERIES GEAR MOTORS

Right Angle



Helical Bevel-Gear Motor HiflexDRIVE – Aseptic

Right Angle



Helical Worm Gear Motor Aseptic Series BK



Helical Gear Motor Aseptic Series BG



Helical Parallel Shaft Gearmotor Aseptic Series BF

FEATURES VIRTUALLY ELIMINATING RISK TO FOOD PRODUCTS: **EXTERIOR DESIGN FEATURES**

			RIGHT	ANGLE	INLINE OR PARALLEL SHAFT			
		SS700	SS2000R	HiflexDRIVE SS	HiflexDRIVE Aseptic	SS2000	Series BG SS	Series BG/BF Aseptic
			0200	0	O. R			
Domed Crown™ Technology		Standard	Standard	_	_	Standard	_	_
Graded Surfaces	0	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Rounded Edges & Corners		Standard	Standard	Standard	Standard	Standard	Standard	Standard
Laser-Marked Nameplate		Standard	Standard	Optional	_	Standard	Optional	_
Aseptic Coatings	.0.	_	_	_	Standard	-	_	Standard
External or Covered Hardware	6	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Certifications	A CONTRACTOR OF	NSF International Certified	_	_	FDA Approved Coating	_	_	FDA Approved Coating
Washdown- Friendly Mounting Features	• • •	Optional Base Feet / Optional Output Flange	Optional Base Feet / Optional Output Flange	Optional Output Flange	Optional Output Flange	Optional Output Flange	Optional Output Flange	Optional Output Flange

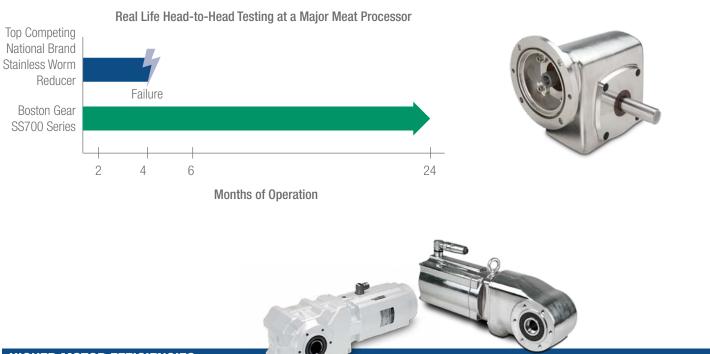
FEATURES VIRTUALLY ELIMINATING RISK TO FOOD PRODUCTS: **SEALING FEATURES**

			RIGHT	ANGLE	INLINE OR PARALLEL SHAFT			
		SS700	SS2000R	HiflexDRIVE SS	HiflexDRIVE Aseptic	SS2000	Series BG SS	Series BG/BF Aseptic
		Q R		0		0.200		
Non-Vented Housing	.0.	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Double-Lipped Shaft Seal	~ ·	Standard	Standard	Standard	Standard	Standard	Standard	Standard
High-Pressure Washdown Seal		Optional	Optional	Optional	Optional	Optional	Optional	Optional
Gasketed Shaft Cover		_	Optional	Optional	Optional	_	_	_
Internal Magnets to Prevent Metallic Wear Debris from Damaging Seals		_	Standard	_	_	Standard	_	_
0-Ring Mounting Surfaces		Standard	Standard	Optional	Optional	Standard	Optional	Optional
Non- Ventilated Motor	L'IL	_	_	Standard	Standard	—	Standard	Standard
Plug-In Motor Connection		_	_	Standard	Standard	_	Standard	Standard
*IP67 Compliance	۵	Standard / Optional	Standard / Optional	Standard	Standard	Standard / Optional	Standard	Standard
*IP69K Compliance	۵	Standard / Optional	Standard / Optional	Optional	Optional	Standard / Optional	Optional	Optional
Integral Brake/ Encoder		_	_	Optional	Optional	_	Optional	Optional

*Approval pending for SS700, SS2000R and SS2000

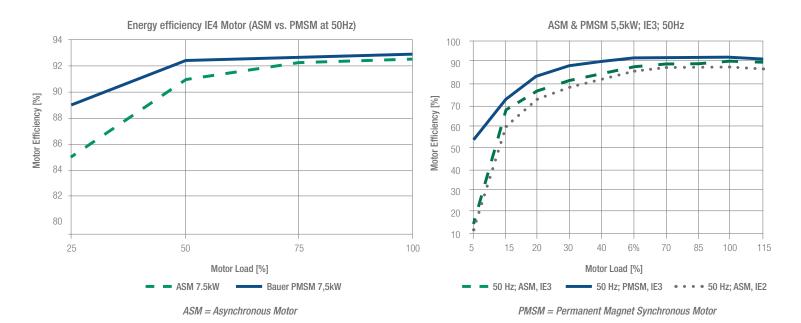
EFFICIENCIES THAT MAXIMIZE **PRODUCTIVITY** & **PROFITS** IN A COMPETITIVE INDUSTRY

LONGER PRODUCT LIFE



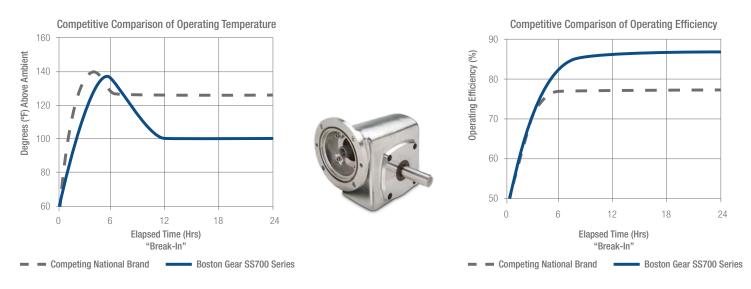
HIGHER MOTOR EFFICIENCIES

The BAUER Series integrated motors are available in efficiency classes from IE1 to IE4. All motors are optimized for partial load duty according to EN 50598-2 with the PMSM technology, allowing a proven energy savings of up to 40% under these exact conditions.

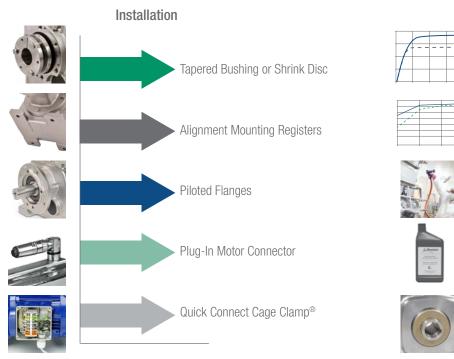


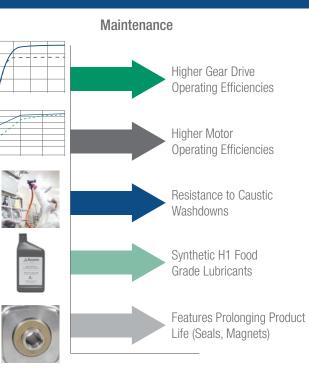
HIGHER SYSTEM OPERATING EFFICIENCIES

Efficiencies are tested and reported for the complete geared assembly, unlike many competing brands who report efficiencies per gear mesh. Many competing brands even assign Ratings that are not in accordance with AGMA guidelines. The test results below clearly demonstrate our performance advantages in both Operating Temperature and Operating Efficiency.



REDUCED INSTALLATION TIME AND MAINTENANCE COST





Time Saved [%]

Maintenance Savings [\$]

Altra Industrial Motion

Belted Drives and Sheaves

TB Wood's Belted Drives Chambersburg, PA - USA 1-888-829-6637 – Press #5

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

Couplings

Ameridrives Couplings Mill Spindles, Ameriflex, Ameridisc Erie, PA - USA 1-814-480-5000

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

Ameridrives Power Transmission

Universal Joints, Drive Shafts, Mill Gear Couplings Green Bay, WI - USA 1-920-593-2444

Bibby Turboflex Disc, Gear, Grid Couplings, Overload Clutches

Dewsbury, England +44 (0) 1924 460801

Boksburg, South Africa +**27(0) 11 918 4270**

Guardian Couplings Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings Michigan City, IN - USA 1-219-874-5248

Huco Dynatork

Precision Couplings and Air Motors Hertford, England +44 (0) 1992 501900 Chambersburg, PA - USA 1-888-829-6637 Couplings Cont.

Lamiflex Couplings Flexible Couplings, Bearing Isolators, and Coupling Guards Cotia, SP - Brasil +55 (11) 4615-6300

All Customer Service phone numbers shown in bold

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

Electromagnetic Clutches and Brakes

Inertia Dynamics Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes New Hartford, CT - USA 1-800-800-6445

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

Warner Electric

Electromagnetic Clutches and Brakes New Hartford, CT - USA

1-800-825-6544 For application assistance: 1-800-825-9050

Saint Barthélémy 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

Engineered Bearing Assemblies

Kilian Manufacturing Engineered Bearing Assemblies

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

Gearing

 Bauer Gear Motor

 Geared Motors

 Esslingen, Germany

 +49 (711) 3518-0

 Somerset, NJ - USA

 1-732-469-8770

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

Nuttall Gear and Delroyd Worm Gear Worm Gear and Helical Speed Reducers Niagara Falls, NY - USA 1-716-298-4100

Heavy Duty Clutches and Brakes

Industrial Clutch Pneumatic and Oil Immersed Clutches and Brakes Waukesha, WI - USA 1-262-547-3357

Svendborg Brakes Industrial Brakes and Brake Systems

Vejstrup, Denmark +**45 63 255 255**

Twiflex Limited

Caliper Brakes and Thrusters Wichita Falls, TX - USA 1-844-723-3483 Twickenham, England +44 (0) 20 8894 1161 Heavy Duty Clutches and Brakes Con

Wichita Clutch

 Pneumatic Clutches and Brakes

 Wichita Falls, TX - USA

 1-800-964-3262

 Bedford, England

 +44 (0) 1234 350311

Linear Products

Warner Linear

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

For application assistance: 1-800-825-9050

Saint Barthélémy d'Anjou, France

+33 (0)2 41 21 24 24

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) 6221-30470

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



An Altra Industrial Motion Company

www.bauergears.com

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



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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