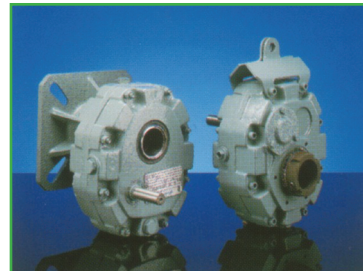
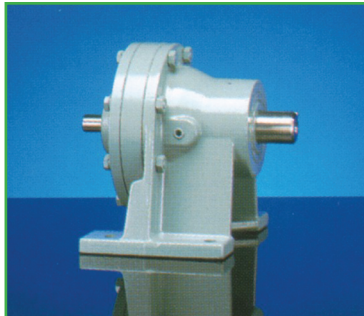




Since 1964

MOTORS, GEARS & DRIVES CATALOG



STERLING
ELECTRIC, INC.

www.harcosupply.com





Supply House to the Processing Industries Since 1964

Trusted supply house of sanitary processing equipment, parts and supplies for the dairy and food, brewery, beverage and pharmaceutical industries.

Harco Enterprises offers a diverse line of sanitary and hygienic processing equipment, parts and supplies including pumps, sanitary valves, separators, homogenizers, gaskets and fittings, sanitary hoses, and instrumentation as well as a variety of other products from world leading manufacturers such as Alfa Laval, Ampco, Tetra Pak, Burkert, Tri-Clover, Remco, Vikan, Carlisle, Haynes, Strahman, and more.

These products are distributed to dairy, food, beverage processing facilities as well as the pharmaceutical, brewing, and fisheries industries throughout North America.

Many of our products are customized in design due to strict sanitary and hygienic standards, and all are built to stand up to the demands of high production environments. Resourcefulness and quick delivery are important to you, and Harco always provides both.

Check out our large collection of equipment, parts and supplies, including our line of color-coded products available.

Visit our website today at www.harcosupply.com

Motors & Controls



AC Motors

HP: 0.25-2000

RPM: 3600, 1800, 1200, 900, 720 and 600 (also 2 & 4 speed)

Power Supply: 3 phase, 60Hz, standard 208-230/460 or 575 VAC; also above 200 HP- 2300 or 4000 VAC; wide variety of special voltages and frequencies available

Frames: 182-587U (cool running U-frames), 56-449T (stock T-frames) and over NEMA frames above 400 HP

Enclosures: ODP, TENV, WP-I, WP-II, TEWAC, TEFV and Sterli-Seal® (Washdown Duty)

Nema Designs: A, B, C, D and Wound Rotor; special designs for specific applications

Mountings: Footed, C-face, D-flange, P-base and special mounting faces or flanges for specific applications

Brakemotors: 0.25-30 HP (T-frames) and 0.25-60 HP (U-frames)

Outstanding Features: CONSTRUCTION - rugged cast iron or rolled steel (0.25-2hp) available; BEARINGS - oversized ball bearings; SERVICE FACTOR - standard 1.15; INSULATION - Class B or F insulation available; NAMEPLATE - stainless steel standard

Sterli-Seal® Stainless Motors

HP: 0.33-10

RPM: 3600 and 1800

Power Supply: 3 phase, 60 Hz, standard 208-230/460 and 575 VAC

Enclosure: TENV and TEFC (Washdown Duty)

Nema Design: B

Mountings: Footed, C-face footed, C-face footless and Close Coupled Pump Style "JM"

Outstanding Features: CONSTRUCTION - All stainless steel frame, brackets, fan cover, conduit box and shaft; BEARINGS - oversized ball bearings; SERVICE FACTOR - standard 1.15; INSULATION - Class F; all fits with RTV sealant and four-quadrant stainless steel drain plugs in C-face bracket



Adjustable Frequency AC Motors

HP: 1 - 150

RPM: 3600, 1800 and 1200

Power Supply: 3 phase, 60 Hz, standard 208-230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: TEFC, TEBC (totally enclosed blower cooled) and Sterli-Seal® (Washdown Duty)

Mountings: Footed, C-face and special mounting faces available for specific applications

Outstanding Features: Special spike resistant magnet wire; Class "H" insulation with Class "B" temperature rise; full phase to phase insulation; winding temperature thermostats standard; optional encoder for closed loop applications

Speed-Tron® 2000AC Controls

Power Supply: 3 phase input, 3 phase output; .25 -5 HP 230 VAC; .25 - 20 HP 460 VAC

Enclosures: NEMA 1, NEMA 12, and NEMA 4X/12 Sterli-Seal® (Washdown Duty)

Outstanding Features: 50 or 60 Hz input line frequency; 3 - 240 Hz operating frequency range; selectable local or remote operation; 0 - 10 VDC or 4 - 20 ma signal follower capability; simple approach to programming functions by use of a keypad and digital display



**STERLING
ELECTRIC, INC.**

**HARCO
ENTERPRISES LTD.**

**675 The Parkway
Peterborough, ON
K9J 7K2**

**1-800-361-5361
705-743-5361
Fax: 705-743-4312**

**www.harcosupply.com
sales@harco.on.ca**

Motors, Controls, Gearmotors & Reducers



Speed-Tron® DC Controls

Power Supply: 115 or 230 VAC, 1 phase jumper selectable; 0.25-1 HP 115 VAC 90 VDC armature; 0.25-2 HP 230 VAC 180 VDC armature

Enclosures: Chassis, NEMA 1 and NEMA 4/12 Sterli-Seal® (Washdown Duty)

Options: Run/log with operator controls; reversing with operator controls; instrument interface 0-10 VDC or 4-20 ma; torque with operator controls; torque with instrument interface

**STERLING
ELECTRIC, INC.**

DC Motors (Permanent Magnet)

HP: 0.25-2

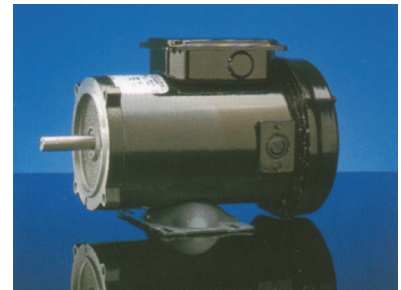
RPM: 1725 base speed

Power Supply: 90 or 180 VDC

Enclosures: TEFC and Sterli-Seal® (Washdown Duty)

Mountings: C-face footed and C-face footless

Options: 7 VDC / 1000 RPM tachometer



Classic Helical Gearmotors & Reducers

HP: 0.25-100

Reductions: Single, Double, Triple and Quadruple

RPM: 780-3.3

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific application

Input: Solid shaft, C-face (coupling) and integral

Mountings: REDUCER - base, C-face and flange; MOTOR - base, C-face, shelf and motor-over mount

Outstanding Features: Oversized, rugged cast iron construction; positive oil seals allow mounting in any position without modification; all gears located between bearings-no overhung loads; rugged gears diameter and wide face; bearing housing integrally cast to assure proper alignment; low shaft places torsional stress close to feet

2000HG Helical Gearmotors & Reducers

HP: 0.25-75

Reductions: Double and Triple

RPM: 887-7

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

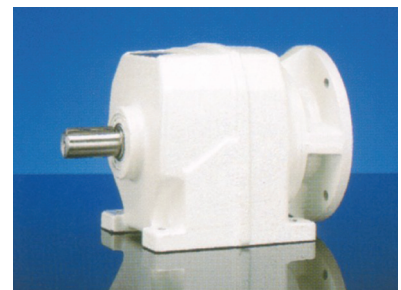
Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific applications

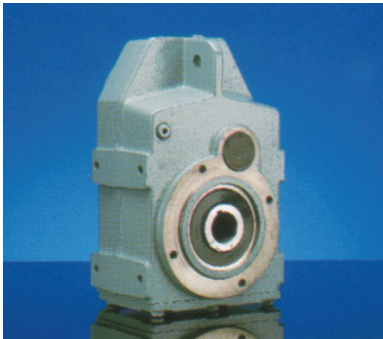
Input: Solid shaft and C-face (quill style with nylon bushing)

Mountings: Base and flange; interchangeable with major European suppliers

Outstanding Features: REDUCER - compact single piece cast iron housing; positive oil seals allow mounting in any position without modification; all gears located between bearings - no overhung loads; hardened and ground pinions and gears; bearings housings integrally cast to assure proper alignment; unique C-face bushing system prevents fretting and corrosion of motor shaft



Gearmotors, Reducers, Shaft Mounts & Conveyors



2000SM Shaft Mount Gearmotors & Reducers

HP: 0.25-100

Reductions: Double and Triple

RPM: 337-5

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific applications

Input: Solid shaft and C-face (quill style with nylon bushing)

Mountings: Base, flange, solid shaft and hollowshaft; interchangeable with major European suppliers

Outstanding Features: REDUCER - single piece cast iron housing; positive oil seals allow mounting in any position without modification; all gears located between bearings-no overhung loads; hardened and ground pinions and gears; bearing housings integrally cast in case to assure proper alignment; unique C-face bushing system prevents fretting and corrosion of motor shaft

AGMA Shaft Mounts & Screw Conveyors

HP: 0.25-60

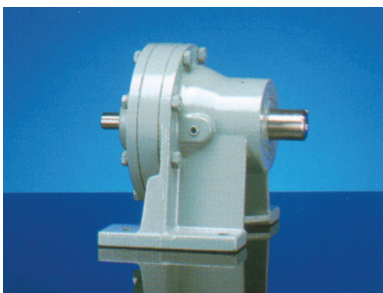
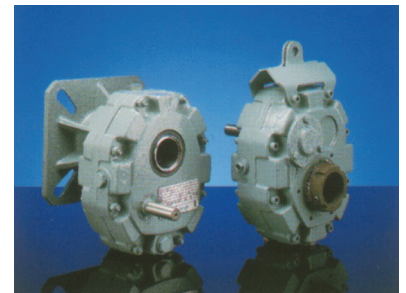
Ratios: 5:1, 15:1 and 25:1

Output Shaft Bores: 15/16-3 7/16

Options: Motor mounts, backstops and taconite seals

Outstanding Features: ribbed cast iron housing; single tapered bushing design is self-locking and will not back off shaft; fretting and corrosion of bushing to shaft is prevented; hardened and ground pinions and gears; standard double lip seals on ground and polished shafts protect against leaking

**STERLING
ELECTRIC, INC.**



2000C Cycloidal Gearmotors & Reducers

HP: 0.25-200

Stages: Single and Double

RPM: 300-0.23

Power Supply: 3 phase, 60Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific applications

Input: Solid shaft, C-face (coupling) and C-face (quill)

Mountings: Base and flange; interchangeable with major cycloidal suppliers

Outstanding Features: Rolling contact for high torque; compact design (high ratios in small cases); high shock load capability; thermal ratings exceed mechanical ratings; high efficiency at high ratios

Right Angle Gearmotors & Reducers

HP: 0.25-30

Reduction: Single and double worm or combination helical/worm

RPM: 345-0.48

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific applications

Input: solid shaft, C-face (coupling) and C-face (quill)

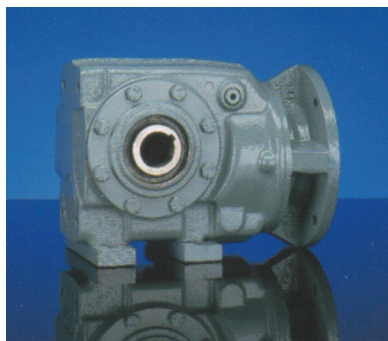
Mountings: Base, ring, bracket, flange and hollowshaft

Center Distance: 1"-10"

Outstanding Features: Precision ground worms of high quality alloy steel; accurate hobbed cast bronze gears; tapered roller bearings on output shaft permit maximum overhung load capacity; large oil reservoir for splash lubrication affords cool operation and oil seal design provides trouble free operation



Motors & Drives, Gearmotors & Reducers



2000HW Helical Worn Gearmotors & Reducers

HP: 0.25-20

Reductions: Double and Triple

RPM: 219-2

Power Supply: 3 PHASE, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown duty)

Nema Designs: B, C, D and special designs for specific applications

Input: Solid shaft and C-face (quill style with nylon bushing)

Mountings: Base, flange, solid shaft and hollowshaft; interchangeable with major European suppliers

Outstanding Features: REDUCER - all cast iron housing; positive oil seals allow mounting in any position without modification. All gears located between bearings-no overhung loads; hardened and ground pinions, gears and worn shafts; high quality bronze worm gearing; bearing housings integrally cast in case to assure proper alignment; unique C-face bushing system prevents fretting and corrosion of motor shaft

2000HB Helical Bevel Gearmotors & Reducers

HP: 5-150

Reduction: Triple

RPM: 225-11

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

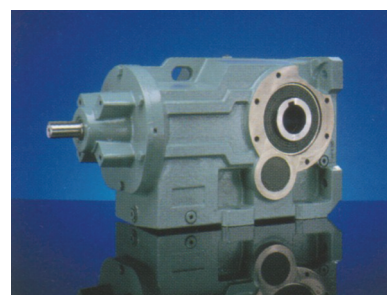
Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown duty)

Nema Designs: B, C, D and special designs for specific applications

Input: solid shaft and C-face (quill style with nylon bushing)

Mounting: Base, flange, solid shaft and hollowshaft; interchangeable with major European suppliers

Outstanding Features: REDUCER - all cast iron housing including integral feet; positive oil seals allow mounting in any position without modification. All gears located between bearings-no overhung loads; hardened and ground pinions, gears and worn shafts; high quality bronze worn gearing; bearing housings integrally cast in case to assure proper alignment; unique c-face bushing system prevents fretting and corrosion of motor shaft



Speed-Trol® Mechanical Variable Speed Drives

HP: 0.50-50

Speed Variation: Up to 10:1

Power Supply: 3 phase, 60 Hz, standard 230/460 or 575 VAC; wide variety of special voltages and frequencies available

Enclosures: ODP, TEFC, Explosion Proof and Sterli-Seal® (Washdown Duty)

Nema Designs: B, C, D and special designs for specific applications

Standard Variations: Available with T or U-frame motors; variety of assembly positions; with or without reducers (helical and right angle); can be supplied with modular, C-face input and output to accept any type of motor or reducer

Outstanding Features: Lube-Free® (no grease) design of pulleys and shafts; positive speed control over stepless range; heavy duty belt with large thermal capacity to ensure long, cool-running operation; full length cover plates on both sides of transmission provide easy access to internal parts; various means available for changing speed (manual, electric or pneumatic); tachometer speed read-out; modular design provides the ultimate in flexibility and ease of service; automatic belt tensioning ensures the smooth transmission of power and prevents excess belt wear; can provide extra high starting torque

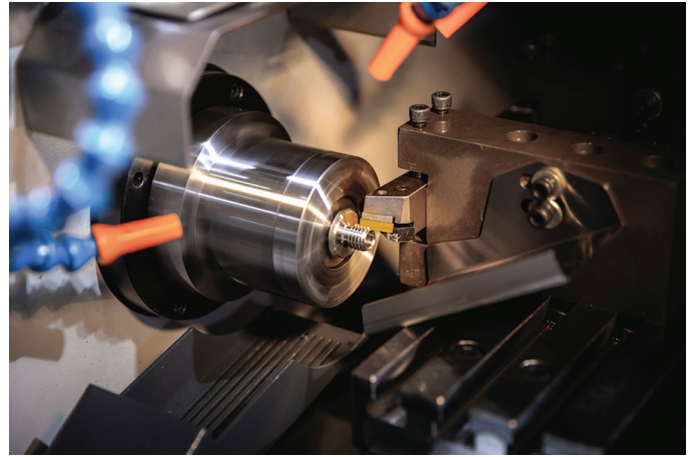
Application-Specific Motors & Drives

- Designed to meet specific mechanical and electrical requirements
- High- and low-temperature applications
- Multiple speeds and voltages
- Special shafts and flanges
- Quick lead times from design to production
- Available in large or small quantities
- Modified stock motors or complete custom design and manufacturing

**STERLING
ELECTRIC, INC.**



OUR CAPABILITIES



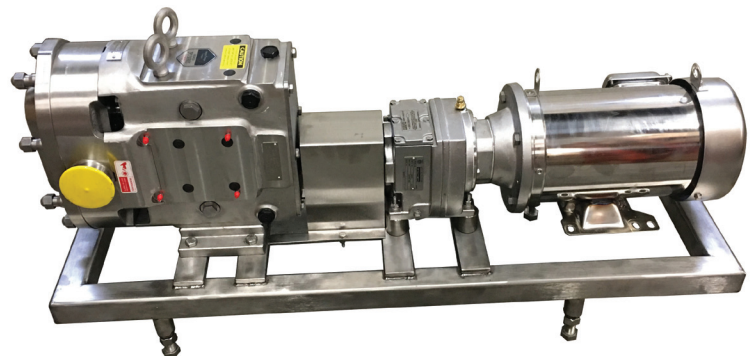
Harco is a Peterborough-based company that is a leader in the supply, design, fabrication and repairs of sanitary components and stainless steel equipment for the pharmaceutical, food, dairy, brewery, and beverage processing industries.

We are proud to provide quality service and support to customers throughout North America since 1964. Offering high quality brands and materials, our custom work is of the highest quality and we ensure it is upheld from start to finish.

Harco offers a full range of sanitary stainless steel processing equipment, from pumps and valves, mixers and blenders to homogenizers and separators and custom fabrications. We back what we sell by offering extensive parts, repairs and customer support.

We're committed to creating forward-thinking solutions that drive your bottom line and keep your business top of mind.

**Visit our website for more information at
<https://www.harcosupply.com/capabilities/>**





Product Line Card

Supply House to the Processing Industries Since 1964

Harco partners with leading manufacturers in the industry to bring you an innovative range of sanitary and hygienic processing equipment and supplies. With experience in design, manufacturing and support, our partners are selected for their quality, reliability, and advanced products.



www.harcosupply.com

