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Motors and 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 speial mounting faces or flanges for specific applications **Brakemotors:** 0.25-30 HP (T-frames) and 0.25-60 HP (U-frames)

Outstanding Features: CONTRUCTION - 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" isulation 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





DRIVE UNITS



Motors, Controls and 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

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



STERLING

ELECTRIC, INC.



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





DRIVE UNITS

Gearmotors & Reducers, Shaft Mounts and 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 TEEC. Explosion Proof and Sterli-Seal® (Washdown Duty)

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 and 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





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

DRIVE UNITS



Motors & Drives and 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 COface (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 availabe

Enclosures: ODP, TEFC, Explosion Proof and Steri-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 customer's mechanical and/or electrical requirements Example:

- High and low temperature applications
- Multi-speeds and voltages
- Special shafts and flanges
- Quick lead-times from design to production
- Large and small quantities
- Modified stock specials and complete custom design and manufacture









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.



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