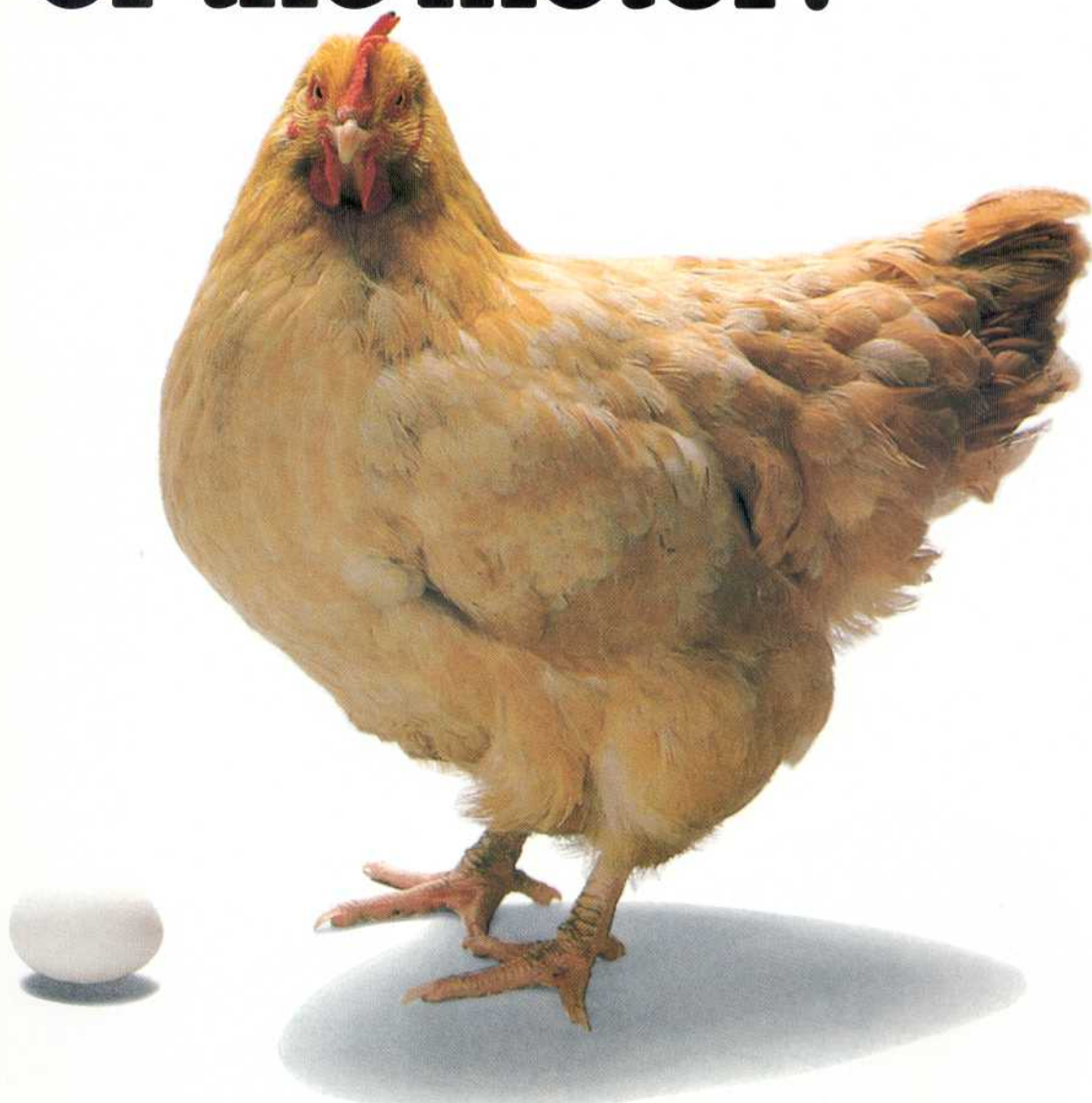


What comes first, the equipment or the motor?



This isn't a trick question to boggle the minds of philosophers. Or engineers. The answer's simple. Your equipment comes first. At least it should.

What's tricky is that, too often, you wind up trying to make your equipment work with the motor. Instead of vice versa.

Motors designed to your designs

Motors

Squirrel cage motor.

This rugged, economical squirrel cage motor is used in many industries such as metal forming, material handling, hydraulics, textile, machine tool, and food processing. As dependable as it is sturdy, the Reuland motor runs quietly. Over 16,000 ratings available—low starting torque, high starting torque, high breakdown torque, Nema design, A, B, C and D, (both 5–8% and 8–13% slip).

Standard Configurations.

Hertz: 60–50–40–25.

Speed: 2–32 pole.

Horsepower: fractional through 150.

Frame sizes: cast aluminum—

56–365,

66–254, old Nema.

wafer thin (pancake).

cast iron—404–445.

Voltages: through 600 VAC.

Insulation: Minimum of Class B.

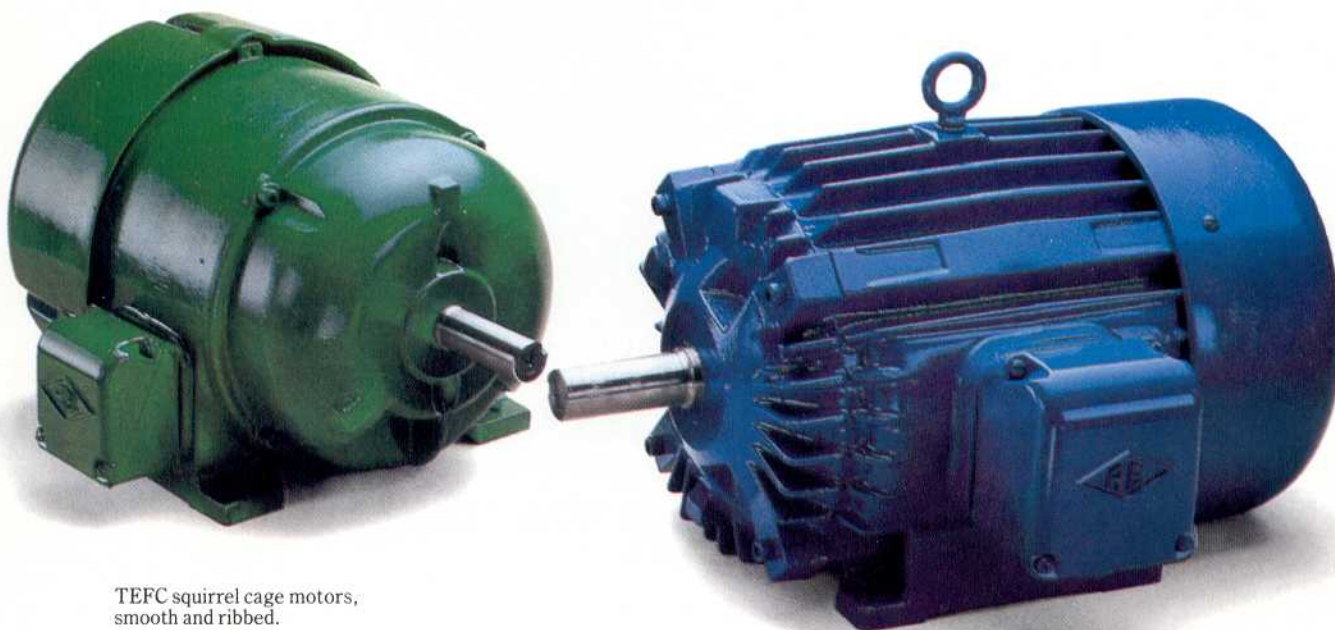
Enclosures: TEFC, TENV, ODP,
auxiliary cooled.

Duty: continuous, intermittent (15,
30, 60, 120 minute ratings) and
special.

Windings: all copper.

Terminal Box: oversized.

Bearings: Ball and angular contact,
cast aluminum end bell with
iron bearing insert.



TEFC squirrel cage motors,
smooth and ribbed.

Wound rotor motor.

Reuland wound rotor motors provide adjustable starting current, starting torque and speed. So they're ideal for applications like bending rolls, conveyors, printing presses, pulpers, pulverizers, plunger and centrifugal pumps, reciprocating compressors, stokers, and hoists, bridge and trolley drives on cranes.

Typical speed-torque curve.

The series of speed-torque curves show the typical performance characteristics of a wound rotor motor with the proper resistance in the rotor circuit. Using zero resistance as a starting point, the adding of resistance produces a maximum torque and slow speed. Further increasing resistance, as in "B" and "A" progressively reduces torque from maximum. Note that maximum resistance produces minimum torque.

Standard Configurations.

Hertz: 60-50-40-25.

Speed: 4-12 pole.

Horsepower: fractional through 150.

Frame size: cast aluminum: 56-365.

cast iron: 404-445.

Voltages: through 600 VAC.

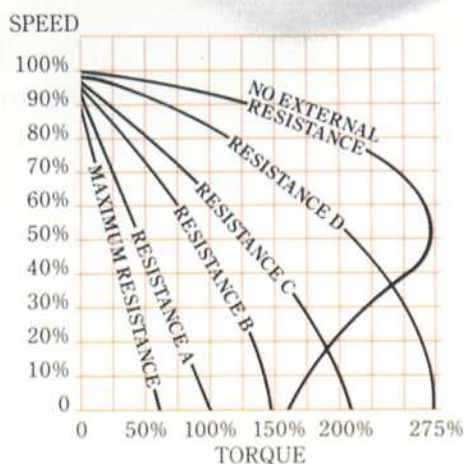
Insulation: minimum of Class F.

Enclosures: TEFC, TENV, ODP, auxiliary cooled.

Duty: continuous, intermittent (15, 30, 60 and 120 minute ratings) and special.



Wound rotor motor.



Brakemotors

We've combined all the features and modifications of Reuland motors with the time-proven Reuland heavy-duty Direct Acting disc brakes and MagnaStop brakes to offer you the Reuland brakemotor, available from 1.5 to 150 lb./ft.

It's engineered to be virtually trouble free. Every brakemotor is assembled from all heavy-duty components.

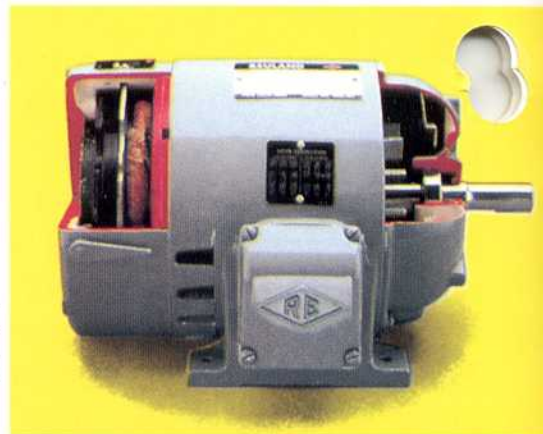
Our heavy duty Direct Acting disc brake has just seven major parts. And only one moves. The armature.

The spring set design provides a built-in safety factor. In case of a power failure, the drive automatically stops. Without power, the magnetic release is gone. And the spring loaded armature is thrust against the brake lining for a fast, positive stop. When the power resumes the magnet retracts the armature, releasing the brake.

In addition, a manual brake release is located outside the housing.

A cast metal housing protects the brake from external damage, so no shrouds are necessary.

The economical Reuland MagnaStop brake has a double action ball bearing cam and single linkage. So it puts less strain on the solenoid. Like our Direct Acting brake, the MagnaStop brake is also springset and magnetically released.



ODP Brakemotor.



TEFC Brakemotors.

Gearmotors

Again we add to our motor (and brakemotor) technology, this time with Reuland reducers to offer the Reuland gearmotor.

Numerous reducer configurations are available.

Right angle single worm. It's available with flange or foot mounts, each with solid (single or double) or hollowshaft. Torque arm mounts are available with the hollowshaft.

Ratings: $\frac{1}{4}$ –30hp

Ratio: 5.1–60:1

Output torque: up to 10,000 in. lbs.

Combination helical/right angle worm. It's available with flange or foot mounts, each with solid (single or double) or hollowshaft. Torque arm mounts are available with the hollowshaft.

Ratings: $\frac{1}{3}$ –10hp

Ratio: 7.2:1–372:1

Output torque: up to 18,000 in. lbs.

Helical bevel. It's available with flange or foot mounts, each offered with solid (single or double) or hollowshaft.

Ratings: $\frac{3}{8}$ –150hp

Ratio: 10:1–160:1

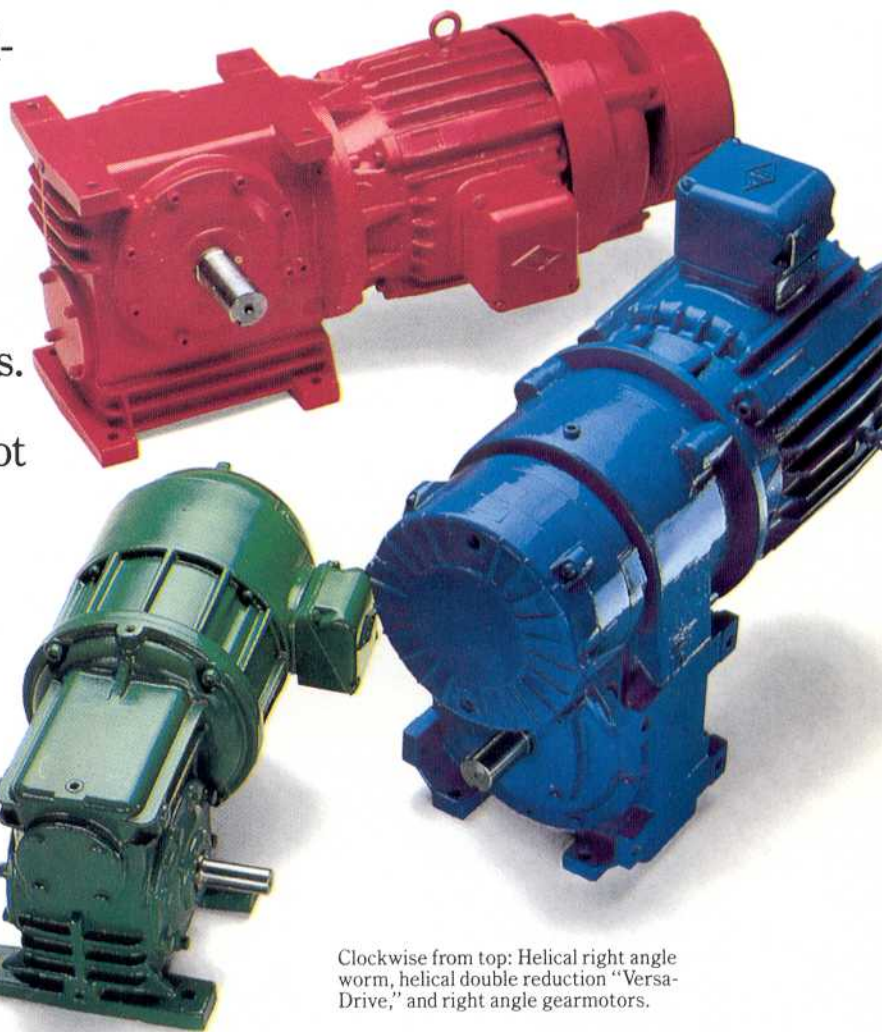
Output torque: up to 350,000 in. lbs.

Helical parallel and concentric shaft. These Reuland gearmotors are available with single, double and triple reduction gears, and foot or flange mount, and single solid shaft.

Ratings: $\frac{1}{2}$ –150hp

Ratio: 1.5:1–1800:1

Output torque: up to 130,000 in. lbs.



Clockwise from top: Helical right angle worm, helical double reduction "Versa-Drive," and right angle gearmotors.

Helical parallel shaft "Versa-Drive"

It's available in solid (single and double) hollowshaft with torque arm mount. Three integral sets of mounting feet allow versatility in mounting, without adaptations.

Ratings: $\frac{1}{2}$ –10hp

Ratio: 4:1–190:1

Output torque: up to 9,075 in. lbs.

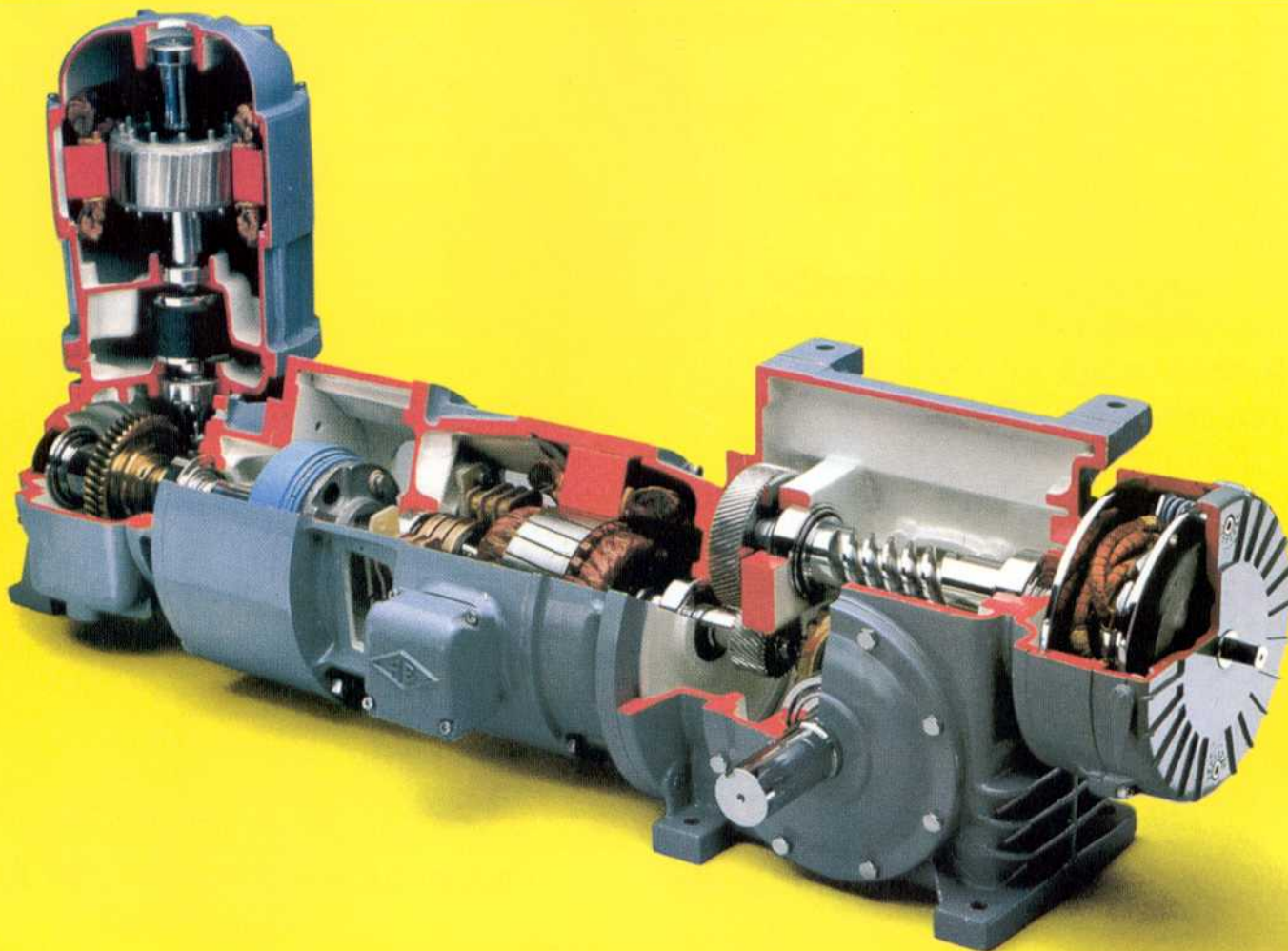
Multi-drives

We put together a high speed main drive motor and a low speed secondary motor with any of our gearmotors, brakes and clutches to give you exactly the drive requirement you want.

Reuland multi-drives are for applications requiring high speed travel with creep speed mode, both continuous and intermittent use. And our constant torque power units are specifically designed for equipment that requires speed ranges not available with multi-speed motors and variable frequency drives.

Multi-drive applications include crane and hoist drives, conveyors, machine tool and automatic retrieval systems.

Two-speed squirrel cage secondary motor drives a right angle worm reducer through a DC clutch to a wound rotor main motor with a helical worm output reducer with disc brake on extended worm shaft.



Standard modifications

Available on all Reuland motors.

Auxiliary cooling.
Balance, special.
Brake, motor mounted.
Bearing: special,
oversized.

Breathers and drains.
Cadmium plating.
Chemical casting treatments.
Conduit box, oversize.
Export packaging.
End bells: "C" face.

"D" flange.
"P" base.
"DIN" flange (metric).

Helicoil inserts.
High altitude.
Insulation Class, Super B, F, Super F, H
and Super H.
Marine duty (IEEE-45, USCG, ABS).
Metric flanges (DIN).
Paint, special.

Part winding starting.
Rotors, fabricated bar.
Rotors, ventilated.
Safety wire.
Screened openings.
Shafts: Spline.
Stainless steel.
Squared.
Tapered.
Double extended.
Step reduction.
Various bore sizes.

Shaft seals.
Space heaters.
Speed switches (anti-plugging).
Star delta starting.
Special ambient.
Tachometers.
Taconite protection.
Tests, special.
Tropical protection.
Zinc chromate primer.

Fluid-shaft[®] motors

The Reuland fluid-shaft motor is designed especially for applications like conveying systems, crane travel drives, hammer and ball mills, car pullers, processing equipment and jib cranes.

We combine a cushion drive fluid coupling with a Reuland motor in one frame. There are no mechanical couplings. So you have smooth, stepless acceleration.

Shocks from equipment overloads, machinery jamming, reversed operations or sudden speed changes are cushioned by increased slip in the coupling fluid. And damage caused by jamming the drive system is prevented.

Specifications.

Fractional through 15hp.

Motor types: squirrel cage and wound rotor.

Enclosures: TEFC, TENV and ODP.

Everybody's different. Some need a slow starting, steady acceleration. Some need their speed right up front, fast and furious. Others have more requirements, like braking and reducing.

Whatever your needs, Reuland makes a full range of top quality power drives. And they're designed to work with *your* designs, instead of vice versa. We package them with whatever electrical and mechanical characteristics you want.

We're equipped to handle long runs or short ones. Special orders or standard. And we do it all in record time.



17969 E. Railroad Street, P.O. Box 1464, Industry, California 91749, (818) 964-6411.
TWX 910-584-1308.