

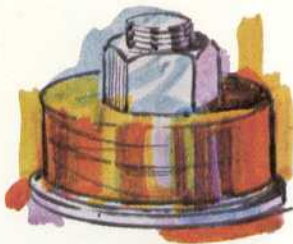
REULAND

vertical
hollow shaft
motors



BULLETIN VP-900

self release coupling

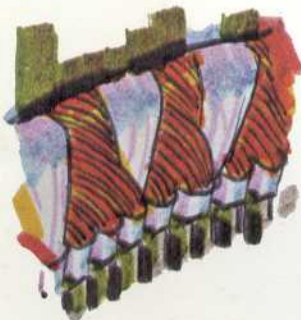


Self-release — Hollowshaft motors are furnished complete with self release couplings with Gib-Head keys. This provides reverse protection by disengaging the pump if the motor is reversed.

Note: For up-thrust protection consult the company.

dynamic balance

Each rotor is individually, dynamically balanced before assembly. This assures quiet operation of the motor and longer bearing life.



windings

All windings are wound with copper wire and class "B" insulation materials as standard. Other classes of insulation are available. Special treatment of the windings including epoxy encapsulation is available. Consult the company with your requirements.

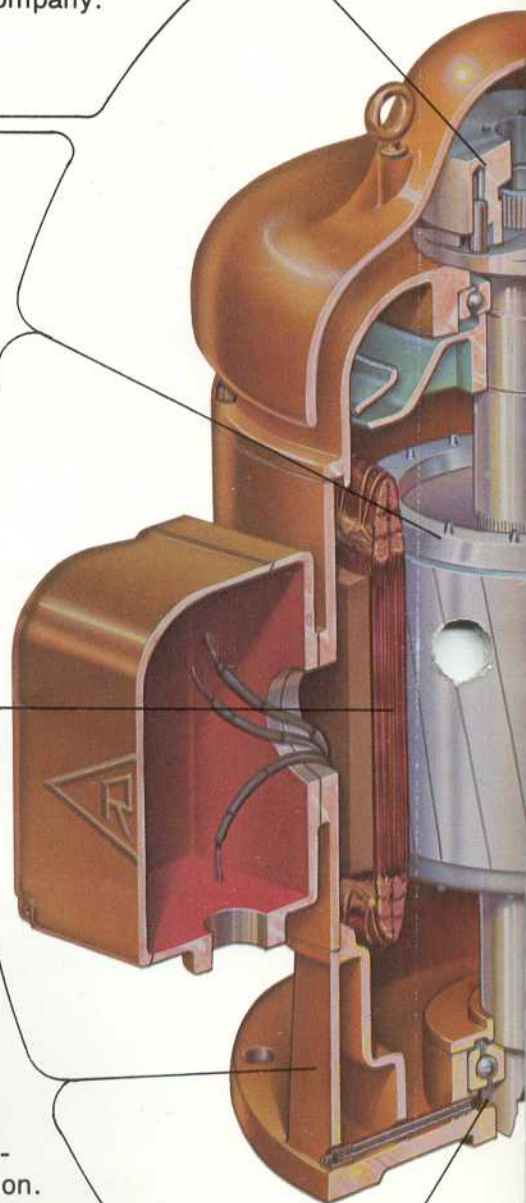
nema pump base

Reuland vertical hollowshaft pump motors are supplied with a NEMA style "p" pump base. Other pump bases or special custom flange mountings are available. Consult the company for your application.



bearings-lubrication

Upper guide bearings are long life ball type bearings. The lower thrust bearings are high thrust angular contact type ball bearings secured and protected by a bearing closure. All bearings are grease lubricated and have provisions for regreasing.



optional non-reverse coupling

Non-reverse: Non-reverse backstop drive coupling is designed to prevent pump and motor backspin when motor current is turned off and water in the column recedes. This type of coupling is available in all hollowshaft ratings.

Note: For up-thrust protection consult the company.

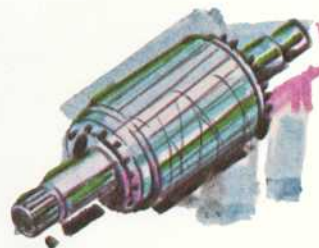


construction

Motor frames, end bells and canopies are cast aluminum alloy which provides fast uniform dissipation of motor heat to assure operation safely within the rated temperature rise of the motor. The use of aluminum reduces the weight per horsepower which is a distinct advantage in installation and maintenance.

rotor

Rotor bars and end rings are a one piece pressure cast aluminum unit. It's light weight and heat conducting properties assure a low inertia, cool-running rotor.

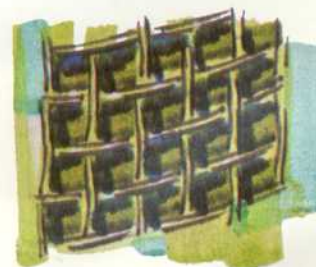


stabilizer bushing

A stabilizer bushing is supplied standard for all coupling bore sizes, except maximum.

rodent guard

Drip Proof Motors are ventilated and constructed to NEMA weather protected Type 1 standards. Supplied with cast aluminum canopies to protect the couplings and upper ventilation openings: All ventilation openings have rodent screening to keep rodents from entering the motor and causing damage to the windings.



features

- ☐ Class "B" Insulation
- ☐ 1.15 Service Factor through 55 horsepower
- ☐ Copper wire used in all windings
- ☐ All aluminum frames, endbells and canopies
- ☐ NEMA weather protected Type 1

available options:

consult the company for your application

- ☐ Totally Enclosed - Vertical Hollow-shaft and Solidshaft Motors can be furnished in totally enclosed fan cooled design
- ☐ Wound Rotor Construction — for controlled speed down to 50%
- ☐ Polyphase — available for all standard voltages and cycles.
- ☐ Custom base mountings
- ☐ Intermediate horsepower ratings

voltages:

All standard voltages available. Special voltages per customer request.

speeds:

3600 RPM up to 75 H.P.
 1800 RPM up to 75 H.P.
 1200 RPM up to 55 H.P.
 900 RPM up to 25 H.P.

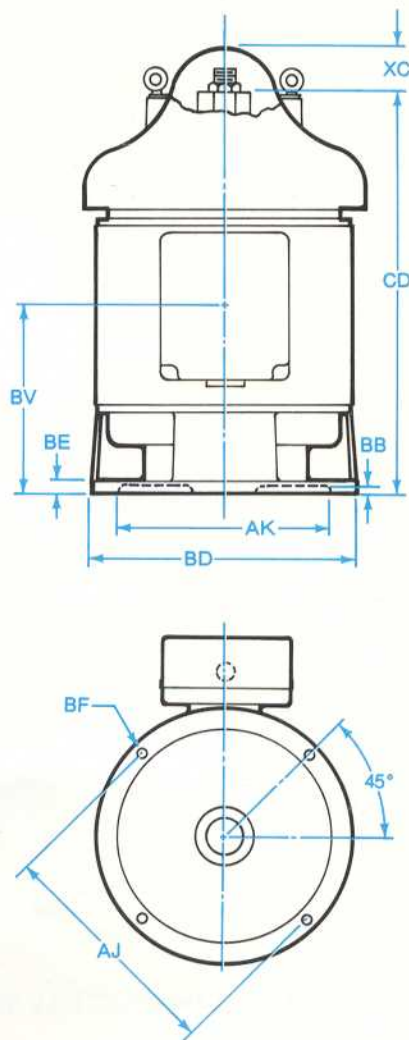
ratings:

from 1 to 75 H.P.

STANDARD — offered in a complete line of standard horsepower ratings from 1 to 75 H.P.

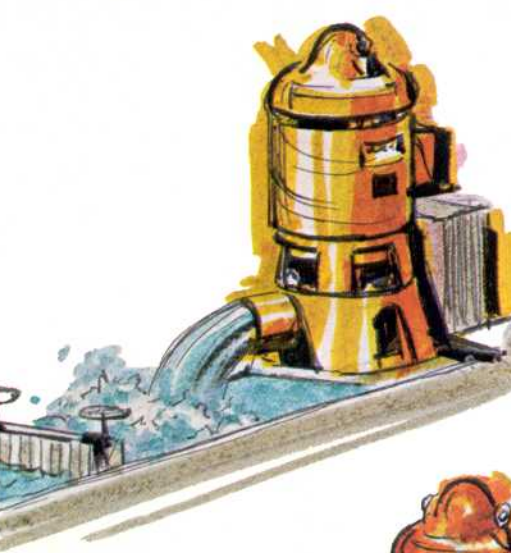
INTERMEDIATE — special intermediate horsepower ratings have been developed as follows: 2½, 4, 6¼, 8¾, 12½, 17½, 35, 45, 55, 65 and 70.

These intermediate ratings are specifically designed and manufactured for the rated horsepower and are not merely remarked standard ratings. For this reason, they are priced accordingly and offer considerable savings when used instead of the next higher horsepower rating.



specifications

FRAME	AJ	AK	BB	BD	BE	BF	BV	CD	XC
225	9.12	8.250	.19	10.00	.50	7/16	7.00	15.88	2.31
254							8.06	18.00	
284					12.00		.62	9.31	21.38
*284				11.00				24.75	
326				16.50				11/16	11.62
*326	14.75	13.500	16.50	.75	11/16	10.25	23.88	3.12	
324U	14.75	13.500		.25	1.56	13/16	11.06		24.69
*324U	9.12	8.250		.19	.75	11/16	11.00		25.38
326U	14.75	13.500		.25	1.56	13/16	11.81		26.00
*326U	9.12	8.250		.19	.75	11/16	11.25		26.19
364U	14.75	13.500		.25	1.56	13/16	12.06	26.81	
*364U	9.12	8.250		.19	.75	11/16	11.75	27.00	
365U	14.75	13.500		.25	1.56	13/16	12.56	27.81	
*365U	9.12	8.250		.19					



☐ WASTE WATER SYSTEMS

☐ IRRIGATION SYSTEMS

☐ WATER RECLAMATION

☐ INDUSTRIAL/MUNICIPAL WATER SYSTEMS

☐ SEWAGE TREATMENT PLANTS

REULAND

applications

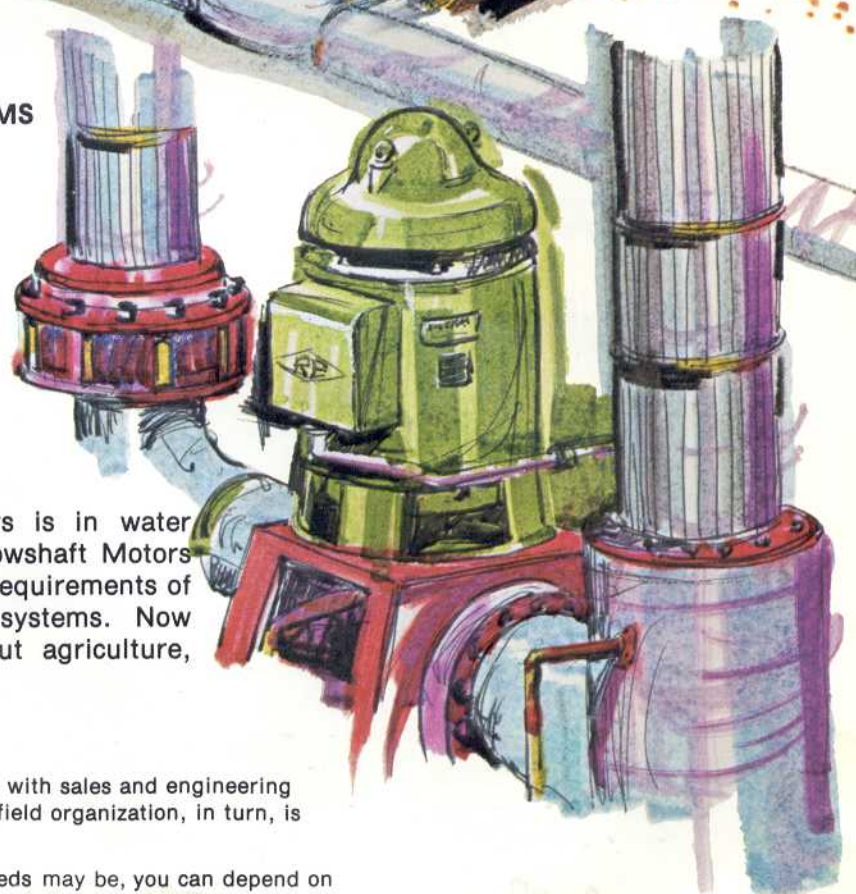
The main purpose of Vertical Pump Motors is in water pumping systems. The Reuland Vertical Hollowshaft Motors were originally designed to meet the exacting requirements of deep well turbine pumping for irrigation systems. Now Reuland Vertical Motors are used throughout agriculture, municipal and manufacturing industries.

national sales and service:

The Reuland Electric Company is a national organization with sales and engineering facilities strategically located in all principal areas. This field organization, in turn, is directed out of our headquarters in Industry, California.

Whatever or wherever your or your customer's motor needs may be, you can depend on Reuland for prompt, on-the-spot productive service. Complete satisfaction on every installation.

☐ COOLING SYSTEMS

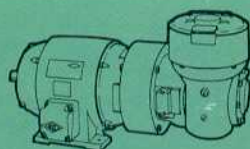


reuland vertical solid shaft pump motors

Vertical pump motors are available in solid shaft design with NEMA "P" base and drip covers and class "B" insulation as standard. Other classes of insulation are available including epoxy encapsulation. Custom shafts and/or flanges are also available. Consult company for your application.

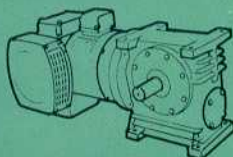


reuland features thousands of combinations to fill your motor drive requirements

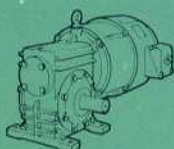


Multi-Drive
Motoreducer

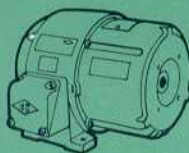
FR Adjustable
Speed Helical
Worm Motoreducer



Right Angle Worm
Motoreducer



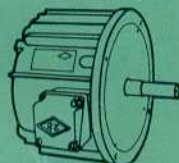
Hydraulic
Pump Motor



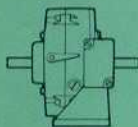
Helical
Motoreducer



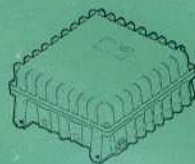
Totally Enclosed
Waterthin Motor



Through Shaft
Magnetic Brake



TC Soft-Start
Control



A power drive system is only as capable as its motor. Reuland's wide range of motor types offers a selection of electrical, mechanical and control characteristics that enable designers to obtain the exact speed, horsepower or torque needed to meet nearly every operating or environmental condition.

All Reuland motors are cast of heavy duty aluminum alloy which is stronger than cast iron, yet $\frac{1}{3}$ lighter, and dissipates heat 30% faster. Cool running "U" frames are combined with Class B heat resistant insulation for maximum trouble-free motor life.

motors:

Standard Squirrel Cage — Most popular motor type . . . durable, rugged . . . superior quality, design and construction. Request Bulletin GS-200

Slip Ring — Variable speed and step-by-step starting features for moving heavy loads. Request Bulletin WR-1000

Torque — Automatically adjusts speed to intermittent load changes, while maintaining constant power. Request Bulletin GS-200

Multi-Speed — 2, 3 or 4-speed types, available to deliver either constant torque, variable torque or constant horsepower. Request Bulletin GS-200

Fluid-Shaft® — Oil cushion absorbs starting shock for smooth start-ups. Request Bulletin FS-250

Wafer-Thin — Full power in one-half the length; lightweight, low inertia rotor. Request Bulletin WAF-100

F R Adjustable Speed Drive — (Patent applied for) — Infinitely adjustable. Will stop, start, reverse, jog at any speed setting. Reversible under full load. Request Bulletin FR-500

motoreducers:

Motoreducers — Four powerful drive systems. $\frac{1}{2}$ through 75 H.P. Right angle

single worm; combination helical/right angle worm; helical parallel shaft and helical versa-drive motoreducers. Request Bulletin MR-600

Multi-Drive Units — All our motors, gears and brakes can be combined into multi-drives to give you many features not normally available. Almost any drive requirement can be met with a Reuland multi-drive. Request Bulletin MD-800

accessories:

Magnetic Disc Brakes — Direct Action . . . no levers or linkage . . . for fast, positive, adjustable braking. Request Bulletin BR-300

TC Soft-Start Control — Provides electronically adjusted smooth, soft starts for any standard squirrel cage motor. Request Bulletin TC-400

power packages:

Reuland's "XPANDABLE" design permits the selection of motors, motor windings, power and drive accessories to provide low-cost power sources for requirements for cranes and hoists, elevators, conveyors, machine tools, food, textile, metalworking and woodworking machinery, pumps, blowers, fans and many other applications.

special motors:

Need a motor with special electrical or mechanical characteristics? Be sure to check with Reuland before paying for special motor development. Hundreds of special and unique motors constructed over many years are available, one of which may already be made-to-order for your needs.

exclusive honor system motor service policy:

Reuland's 30-year-old Honor System Service Policy makes any motor service shop of your choice an authorized service station. Unmatched 24-hour warranty service is provided in even the most remote installations.

Based on a trust in people . . . and a trust in Reuland workmanship . . . it is another example of Reuland quality and the extent to which we stand behind our products. Your Free copy available on request.



REULAND ELECTRIC COMPANY

Western Division: 17969 East Railroad Street, Industry, CA 91749 Phone: 213 864 6411
Eastern Division: 4500 East Grand River Avenue, Howell, MI 48843

Representatives in all principal cities
Bulletin VP-900 Printed in USA