

RINEER[®]

HYDRAULICS

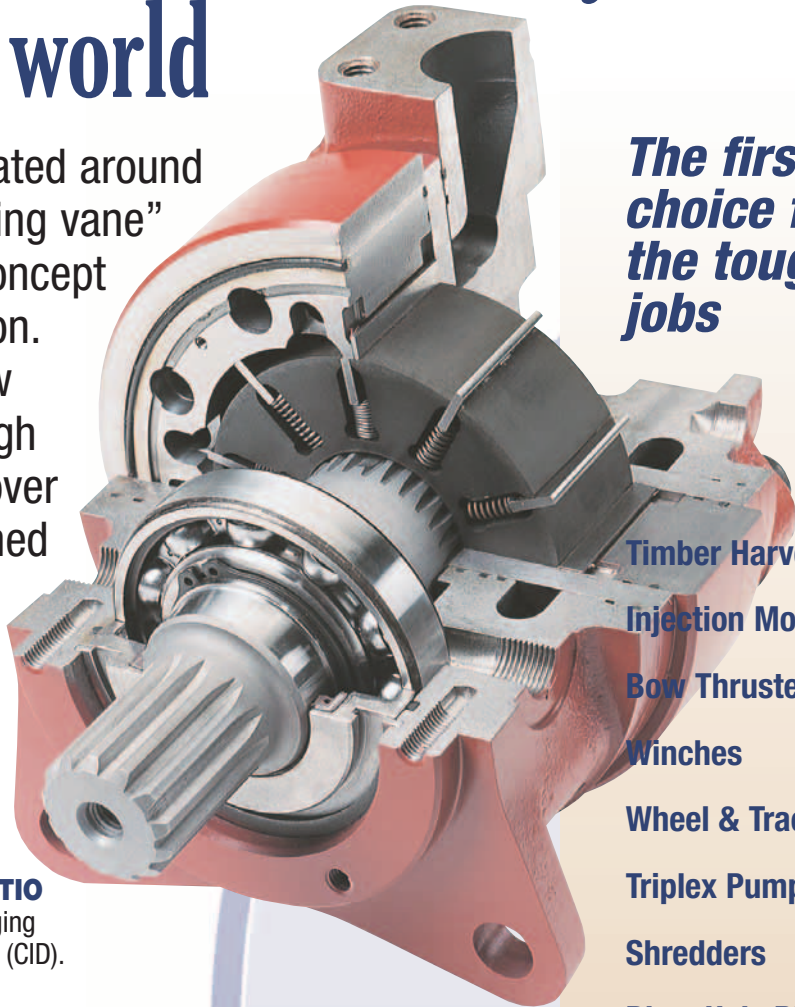
ENGINEERED TO DELIVER
MORE POWER
WHERE YOU NEED IT



The **POWER** to Make You the Best

RINEER®...the most versatile hydraulic motor in the world

The Rineer motor is created around the patented “vane crossing vane” design, a leading-edge concept in fluid power transmission. This design allows for low speed/high torque and high speed/high torque. With over 50 displacements combined with a variety of optional features, Rineer is one of the most versatile hydraulic motors in the world.



The first choice for the toughest jobs

Timber Harvesting

Injection Molding

Bow Thrusters

Winches

Wheel & Tracks

Triplex Pumps

Shredders

Blast Hole Rigs

Mining

Screw Pumps

Roof Bolters

Dredge Pumps

Coring/Drilling

Directional Drills

Top Head Drives

Feeder Mixers

Planer Tables

Centrifugal Pumps

Vehicle Drives

OPTIMUM POWER-TO-WEIGHT RATIO

Four frame sizes with displacements ranging from 5 to 250+ cubic inch displacements (CID).

STARTING & STALL TORQUE

Applications requiring maximum torque at zero rpm benefit from the Rineer design. Torque curves are virtually flat, with maximum torque at start and stall conditions.

SMOOTH OUTPUT OVER A WIDE SPEED RANGE

From less than 10 rpm to 2000 rpm and beyond, Rineer motors generate low torque ripple and steady acceleration for smooth operation.

DYNAMIC BRAKING

The motor is constructed of hardened materials and does not include any non-ferrous metals. This is a plus when designing for dynamic braking and overrunning loads. The cavitation that typically occurs in these circuits seldom affects the integrity of the motor.

4-PORTED SERIES

4-port motors are available in the 37, 57, and 125 Series. These motors are made up of two cartridges separated by a center ported housing. Equal or dissimilar displacements may be combined to attain desired total CID. When supplied with external valving, they can be used as either 2- or 3-speed motors.

HIGH PERFORMANCE SERIES

The 37D, 57D, and 125H are now part of the Rineer family of motors. This high performance design is for 4500 PSI service. This line boosts torque and horsepower by 50% and provides the same wide speed range of standard motors.

RINEER®...the broadest product line for a variety of fluid power demands

Durable, adaptable high-torque motors manufactured to the tightest tolerances for maximum volumetric efficiencies



15 SERIES

Offered in single, two-speed, double output shafts, wheel-bearing style, and retractable shafts along with splined, tapered, or straight keyed shafts. Through-hole and thrust bearing options also available. SAE C mount.



125 SERIES

Offered in the A design, (3000 psi) or the H design, (4500 psi). Splined, tapered, straight keyed, female, and double output shafts are standard, along with through holes to 3". Optional thrust and radial load bearings with substantial capacity, tach pickups, double stacks, and brake mounts available.



37 SERIES

Offered in the A design (3000 psi), or the D design (4500 psi). Splined, tapered, straight keyed, and double output shafts are standard, along with through holes to 1 1/2". Optional thrust and radial load bearings with substantial capacity, tach pickups, double stacks, and brake mounts available. SAE D mount.



125 SERIES 4-PORT

Combines any two displacements from the 125 series in a 4-port or tandem configuration. Allows for 2- or 3-speed operation using external valving. Available in both A and H designs.



57 SERIES

Offered in the A design (3000 psi), or the D design (4500 psi). The same features offered in the 37 Series are available in a motor that's one inch longer. Modified SAE D mount.



DRILL MOTORS

Available in all series as 2- or 4-ported models as listed above. Numerous bearing/shaft configurations and through-hole options are available, including API.



37/57 SERIES 4-PORT

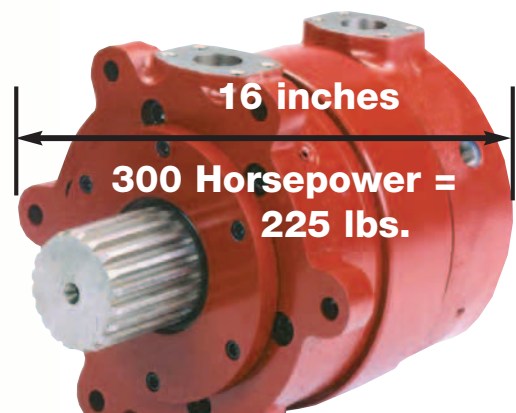
Combines any two displacements from the 37 and/or 57 series choices in a 4-port or tandem configuration. Allows for 2- or 3-speed operation using external valving. Available in both A and D designs. Many of the same optional choices listed above are available.

CROSS TANDEM 4-PORTS

37, 57 and 125 Series can have a rear motor from a smaller series, including the 15 Series. This allows for many displacement combinations or speed ratios when used in 2- or 3-speed circuits. Available in both pressure designs.

Engineered for optimum power-to-weight ratio.

Pound for pound, the smallest package per horsepower output in the industry

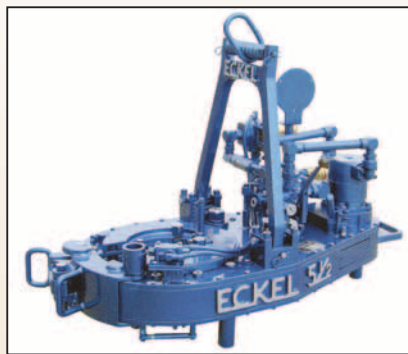


RINEER®...driven to design better solutions to meet your unique needs

Working together, we constantly strive to deliver more power where you need it... when you need it... to get the job done!



This Railroad Undercutter machine uses Rineer to power the ditching wheels and various conveyors.



Power tongs are a staple of the oilfield. Rineer has provided the torque to make and break pipe joints for 30 years.



Caisson drill rigs use Rineer 4-ported motors along with a multi-speed circuit to vary bit rpm and torque.



This Feller-Buncher uses Rineer to direct drive the large diameter saw blade.



Oil field gas production is accomplished by using Rineer to drive the down hole progressive cavity water pump.



This deep well top head drive is powered by three Rineer motors plugged into the final drive ring gear.



Tieback operations to secure construction walls are handled efficiently by direct drive Rineer motors turning the auger.



A large capacity winch is driven by two Rineer 250 CID motors plugged into the drum via a gearbox.



This Jack Up Boat uses nine Rineer motors per pile to stabilize the boat above water level to work on other equipment.

Let us engineer a custom solution for you!

For more information, call 210-341-6333 or visit us on the web at www.rineer.com

RINEER®...engineering the right motors for over 35 years

Rineer Hydraulics, Inc. was formed in 1967, and today is recognized worldwide as a leading manufacturer of quality hydraulic motors. Unlike most other hydraulic manufacturers, we are dedicated solely to the production of hydraulic motors, and to the continuous improvement of performance to meet the requirements for a variety of industries.

HIGHLY SKILLED ENGINEERS

Rineer's team of dedicated engineers, working with a state-of-the-art CAD system, responds quickly to customer requests.

EXTENSIVE R&D TESTING

Once a design modification is completed, drawings are forwarded to manufacturing for machining. Upon completion, units are sent to the R&D Lab for extensive mechanical and hydraulic testing.

STATE-OF-THE-ART EQUIPMENT

The lab is equipped with computer monitored dynamometers with capabilities exceeding 1,000 horsepower. Coupled with numerous special devices, we can perform a wide array of testing.

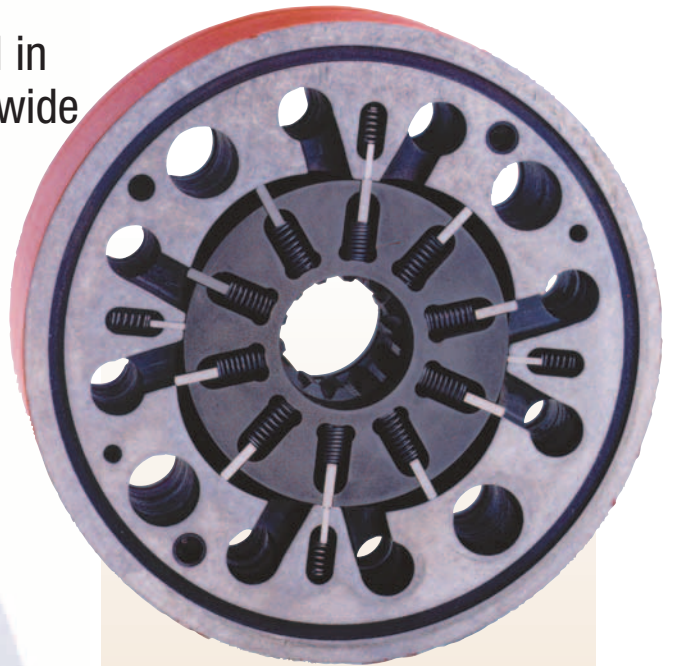
QUALITY ASSURANCE

To ensure maximum control over tolerances and quality, all major components of the Rineer Motor are manufactured in-house using the latest technology.

CUSTOMER SATISFACTION IS OUR PRIORITY

Our company mission is to provide our customers with a reliable, performance-proven product. Customers are welcome to share ideas with our staff in order to assure complete satisfaction.

For more information, visit us on the web at www.rineer.com



The Power Difference - Rineer Patented Technology

The Rineer motor is a bi-rotational power converter utilizing working vanes in the rotating member (rotor) and sealing vanes in the stationary member (stator).

With 10 rotor vanes working in four cavities, the motor provides an uninterrupted output torque regardless of angular position. This equates to 40 power strokes per revolution, delivering higher average torque with low torque ripple.

The stator vanes function as seals between high- and low-pressure ports within the stator. This allows for more displacement in the stator, giving the motor an optimum power-to-weight ratio.

With this patented technology (vane crossing vane design), the motor produces improved mechanical and volumetric efficiencies—the ***Power Difference***.

STANDARD MOTOR SPECIFICATIONS

Standard Series	Displacement		Pressure				Speed		*Torque @ 3,000 psi (206.8 bar)	
	(in ³ /rev)	(cm ³ /rev)	continuous		intermittent		continuous	intermittent	continuous	
			(psi)	(bar)	(psi)	(bar)	(rpm)	(rpm)	(lbf-ft)	(N-m)
Series 15 SAE C	6	98.32	3000	206.8	3500	241.3	2000	2600	183	248.1
	7	114.71					1900	2600	230	311.8
	8	131.10					1800	2600	274	371.5
	9.5	155.68					1700	2300	317	429.8
	10.5	172.06					1600	2300	352	477.2
	11.5	188.45					1600	2300	420	569.4
	13	213.03					1500	2000	430	583.0
15	245.81	1500	2000	529	717.2					
Series 37A, C SAE D	12	196.64	3000	206.8	3500	241.3	1000	1200	390	528.8
	16	262.19					1000	1200	540	732.1
	20	327.74					1000	1200	707	958.6
	26	426.06					800	1000	920	1247.4
	32	524.39					700	950	1143	1549.7
	37	606.32					600	800	1315	1782.9
Series 57A, C	48	786.58	3000	206.8	3500	241.3	500	600	1677	2273.7
	55.5	909.48					500	600	1948	2641.1
Series 125A, C	60	983.22	3000	206.8	3500	241.3	350	400	2140	2901.5
	68	1114.32					350	400	2394	3245.8
	82	1343.74					300	350	2946	3994.2
	98	1605.93					300	350	3525	4779.3
	113	1851.74					300	350	4069	5516.8
	125	2048.38					300	350	4522	6131.0

HIGH PERFORMANCE

High Performance Series	Displacement		Pressure				Speed		*Torque @ 4,500 psi (310.3 bar)	
	(in ³ /rev)	(cm ³ /rev)	continuous		intermittent		continuous	intermittent	continuous	
			(psi)	(bar)	(psi)	(bar)	(rpm)	(rpm)	(lbf-ft)	(N-m)
Series 37D	12	196.64	4500	310.3	5000	344.7	1000	1200	608	824.3
	16	262.19					1000	1200	829	1124.0
	20	327.74					1000	1200	1093	1481.9
	26	426.06					800	1000	1399	1896.8
	32	524.39					700	950	1735	2352.3
	37	606.32					600	800	2017	2734.7
	Series 57D	48					786.58	4500	310.3	5000
55.5		909.48	500	600	3316	4495.9				
Series 125H	60	983.22	4500	310.3	5000	344.7	300**	350**	3230	4379.3
	68	1114.32					3633	4925.7		
	82	1343.74					4459	6045.6		
	98	1605.93					5946	8061.7		
	113	1851.74					6168	8362.7		
	125	2048.38					6857	9296.9		

*Torque values are average and based on maximum speeds at 102SUS (21cSt). **Higher speeds permissible under certain conditions. Contact Factory.

Rineer motors are designed for either 3000-psi or 4500-psi continuous duty. The 3000-psi models are either code 61 flange ported (A), or O-ring boss (C). The 4500-psi models are code 62 flange ported. Torque ratings are actual.

All motors are dynamometer tested to ensure performance.



RINEER HYDRAULICS
The **POWER** to Make You the Best

210-341-6333

331 Breesport, San Antonio, TX 78216
www.rineer.com sales@rineer.com

Distributed By:



Factory 19 / 5 Lyn Parade PRESTONS NSW 2170
Ph: (02) 9607 4100 Fax: (02) 9607 4200