



HOWE

PERFORMANCE POWER STEERING

2006
Sand Car Catalog

www.howepformance.com
www.steeringbox.com

2.5" Power Rack with High Volume Pump



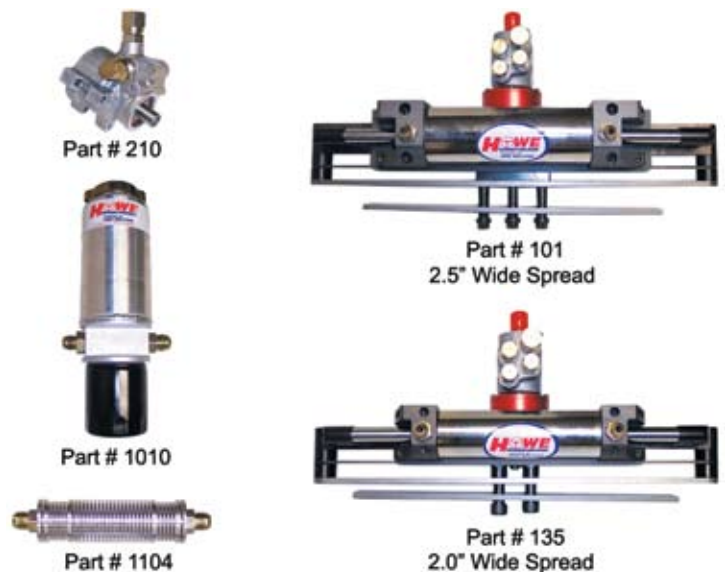
This system is also used on Class 1 and 10 desert race cars and has won the Baja race many times over. Now days sand cars are bigger and faster than ever before. They have taller front tires, longer wheel travel, and more powerful engines. With features like this an old manual steering system just isn't enough. Our 2.5" Power Rack with High Volume Pump will give your sand toy great maneuverability in the dunes or on the hard pack. **Also available in the new 1:1 Ratio!**



2.0" & 2.5" Wide Spread Power Racks



Both the 2.0" and the 2.5" Wide Spreads have the control valve built in allowing you to run with fewer steering shaft u-joints. The wide spread design makes it easy for the car builder to minimize bump steer. The 2.0" system was built in proportion to the lighter sand cars.



Charlynn Systems

For light weight sand cars with smaller tires.



The Charlynn has been known to be a rack killer that's why a good quality rack is a must for this product. To gain better road feel our pump is specially designed to control the ultra sensitivity of the Charlynn unit.



Part # 205



Part # 805 & 815

Part # 655

Part # 820



Part # 1010

Add the Charlynn System to one of these Manual Racks:



Part # 118

Heavy Duty Sand Car Rack Wide Spread
(for 4 seater a-arm style cars)



Part # 116

Sand Car Rack Wide Spread
(for 2 seater a-arm style cars)



Part # 120

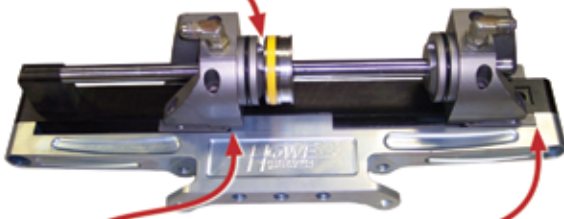
Diablo Manual Rack
(for VW beam style cars)

All hoses and fittings are available. Call or visit our website for more information.

We are the only company that spends extra time with the customer to do it right!

Hydraulic Stop

When designing the tie rod piece, the piston and ram must stop at the same time the tie rod piece does to prevent tie rod bolt failure.



Mechanical Stop

The tie rod piece is custom designed for your application to stop mechanically at the same time the ram stops.

Manual Rack



Part # 115

Used on light weight sand cars with smaller tires. Not to be used with the Charlynn System.

Diablo System



- ▶ Designed for cars with VW beam front ends.
- ▶ The control valve is built into the rack which allows you to run with fewer steering shaft u-joints.
- ▶ Each rack is precision grinded to match the housing.
- ▶ Hard Anodized Housing
- ▶ Super Smooth Linear Motion
- ▶ **Now available in the new 1:1 ratio!**



*We specialize in High Performance Power Steering
for Off-Road Racing, 4x4 Rock Crawling, Stock Car
Racing, Pre-Runners and Sand Cars.*

Larry Minor's Sand Jeeps

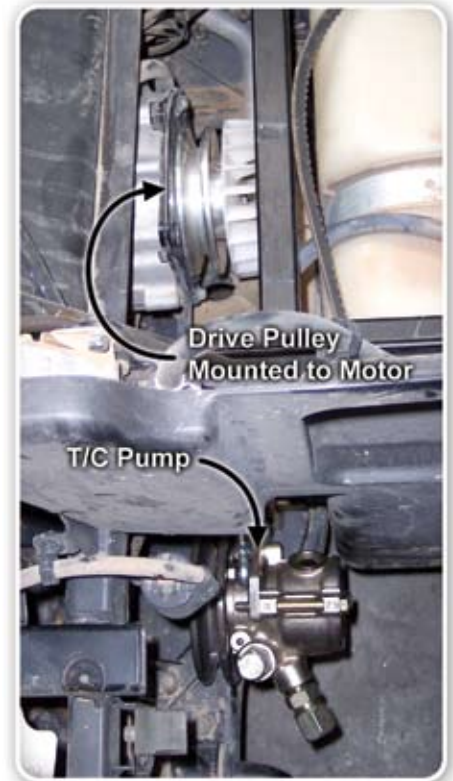


Sand Jeeps like these two built by Larry Minor are the new king of the dunes. The wide spread design with ram assist is the perfect combination for these machines.

Coming Soon! Yamaha Rhino Power Steering



Modifications such as aftermarket wheels, taller tires and lift kits are becoming very popular for Yamaha Rhinos. Up until now these changes made the Rhino hard to steer especially in all wheel drive and full lock 4 wheel drive. Our Ram Assisted steering will make the Rhino steer like a dream no matter what size wheels and tires you're running.



Aluminum Steering Wheels



PART	ITEM
1130	Steering Wheel 13" or 15" Dished

Power Steering Fluid

Specially formulated for off-road racing.



PART	ITEM
1105	Power Steering Fluid

Quick Release

Best on the market! No Slop!



PART	ITEM
1120	Quick Release - 3 Bolt
1121	Quick Release - 6 Bolt (Momo Wheel)

In-Line Coolers



PART	ITEM
1104	7" x 2" Dia. In-Line Cooler
1150	12" x 3" Dia. In-Line Cooler
1104-1001	Mounting Cushion
1104-1002	Billet Aluminum Mounting Bracket

Pulleys (Visit our website for more info.)

PART	ITEM
305	T/C 4.5" Aluminum V-Belt Pulley
310	T/C 6.0" Aluminum V-Belt Pulley
315	T/C 5.375" Aluminum Serpentine Pulley
318	T/C 6.5" Aluminum Serpentine Pulley
316	T/C 4.5" Subaru Serpentine Pulley
317	GM P-Pump 5.375 Aluminum Serpentine Pulley
320	Type-1 VW Crank Pulley w/ Bolt & Pin
329	Hi-Volume Aluminum Single-V Pulley (Req. Steel Hub)
325	Hi-Volume Aluminum Double-V Belt Pulley (Req. Steel Hub)
326	Hi-Volume Aluminum 5.375" Serpentine Pulley (Req. Steel Hub)
328	Hi-Volume Aluminum 6.5" Serpentine Pulley (Req. Steel Hub)
330	T/C 6.0" Aluminum Stock Car Pulley
335	Hi-Volume Steel Hub (Required w/Hi-Volume Pulleys)
340	LS-1 Hi-Volume 6.5" Serpentine Pulley
345	LS-1 Hi-Volume Idler Wheel



U-Joints (Visit our website for more info.)

Available in all 3/4, smooth x any spline



PART	ITEM
600	U-Joints 3/4" Splined X Smooth
600	U-Joints 3/4" Splined X Splined
655	U-Joints Charlynn X Smooth
650	U-Joint Charlynn X Splined

Mounting Brackets



PART	ITEM
920A	Ford T/C Aluminum Pump Bracket
935	LS-1 High Volume Pump Bracket
905	Steel Type-1 VW T/C Pump Bracket
905A	Aluminum Type-1 VW T/C Pump Bracket
910	Steel Type-4 VW T/C Pump Bracket
915	Chevy 350 T/C Pump - Head Mount
925	Chevy 350 T/C Pump - Block Mount
930	LS1 T/C Pump Bracket
920	Ford T/C Pump Bracket
940	Honda V-TEC T/C Pump Bracket
1006	3.5" Dia. Reservoir Bracket

Steering Shafts

PART	ITEM
1125	Steering Shaft 3/4" 48 Spline
1126	Steering Shaft 1.125" x 36"
1127	Steering Shaft Spuds 1" 48 Spline



www.howperformance.com
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All of our products are for off-road use only! Not Street Legal!