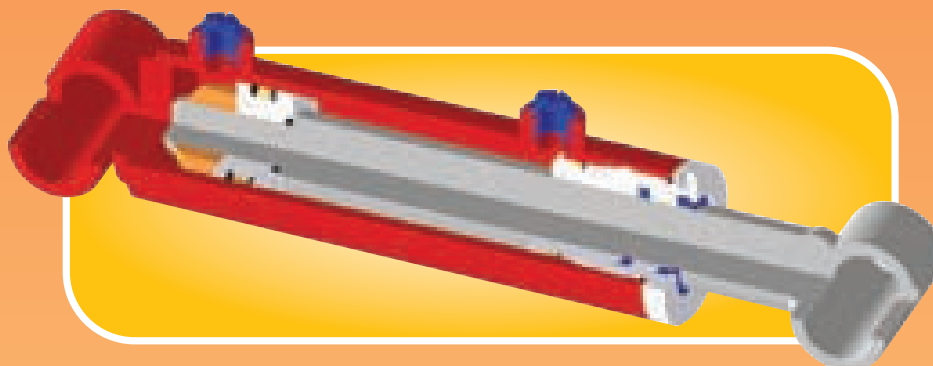
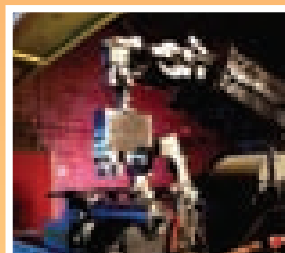
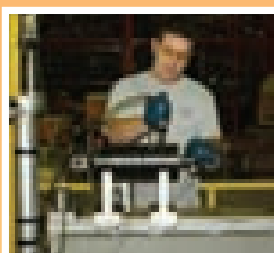


SHUR-LIFT HYDRAULIC CYLINDERS



HIGH QUALITY COMPONENTS
HIGH TOLERANCE MACHINING
OUTSTANDING HIGH PRESSURE PERFORMANCE



DESIGNED TO MEET THE REQUIREMENTS
OF A WIDE VARIETY OF APPLICATIONS

AGRICULTURAL



INDUSTRIAL



PAL **Hydraulics**

Unique fluid solutions powered by service

BACKED BY OUR ROYAL SERVICE PROMISE

SHUR-LIFT 3,000 THREADED HEAD UTILITY CYLINDERS



- 3,000 PSI max. continuous pressure
- Features cross tube mounting ends

	Stroke	Retracted Length	Rod dia.	Wt. (lbs.)	ITEM	PRICE
1-1/2" bore, #6 ORB ports 3/4" dia. pinholes Base pineye width: 2" Rod pineye width: 2" 5,301 lbs. push @ 3,000 PSI	4"	12"	1"	7.0	1200239	139.99
	6"	14"	1"	7.1	1200240	144.99
	8"	16"	1"	8.1	1200241	154.99
	10"	18"	1"	9.1	1200242	164.99
	16"	24"	1"	12.2	1200246	189.99
	20"	28"	1"	15.0	8008746	199.99
	24"	32"	1"	16.1	8008773	209.99
2" bore, #6 ORB ports 1" dia. pinholes Base pineye width: 2-3/4" Rod pineye width: 2-1/4" 9,424 lbs. push @ 3,000 PSI	4"	12"	1-1/4"	9.8	8008808	149.99
	6"	14"	1-1/4"	10.0	8008844	159.99
	8"	16"	1-1/4"	12.7	1204304	169.99
	10"	18"	1-1/4"	14.2	1200131	179.99
	12"	20"	1-1/4"	15.6	1204312	184.99
	14"	22"	1-1/4"	17.1	1204320	199.99
	16"	24"	1-1/4"	18.5	1204437	209.99
	18"	26"	1-1/4"	20.0	1204338	214.99
	20"	28"	1-1/4"	21.4	1204346	219.99
	24"	32"	1-1/4"	24.4	1204353	229.99
	30"	38"	1-1/4"	28.7	1204361	239.99
	32"	40"	1-1/4"	30.0	1200220	249.99
	36"	44"	1-1/4"	32.8	1200221	264.99
	40"	48"	1-1/4"	35.8	1200222	284.99
	48"	56"	1-1/4"	38.0	1204452	299.99
2-1/2" bore, #6 ORB ports 1" dia. pinholes Base pineye width: 3-1/4" Rod pineye width: 2-1/4" 14,726 lbs. push @ 3,000 PSI	6"	14"	1-1/4"	13.9	8008853	169.99
	8"	16"	1-1/4"	15.6	1204379	179.99
	10"	18"	1-1/4"	17.2	1200223	189.99
	12"	20"	1-1/4"	18.7	1200132	199.99
	14"	22"	1-1/4"	20.4	1200224	219.99
	16"	24"	1-1/4"	21.8	1200133	229.99
	18"	26"	1-1/4"	23.0	1200225	239.99
	20"	28"	1-1/4"	25.0	1204387	249.99
	24"	32"	1-1/4"	28.4	1204395	259.99
	30"	38"	1-1/2"	38.1	1200196	284.99
	32"	40"	1-1/2"	39.0	1200226	289.99
	36"	44"	1-1/2"	43.8	1200227	299.99
	40"	48"	1-1/2"	47.7	1200228	309.99
	48"	56"	1-1/2"	55.3	1200230	349.99
3" bore, #8 ORB ports 1" dia. pinholes Base pineye width: 3-3/4" Rod pineye width: 2-1/4" 21,205 lbs. push @ 3,000 PSI	8"	16"	1-1/4"	18.8	1204403	189.99
	10"	18"	1-1/4"	20.6	1204429	199.99
	12"	20"	1-1/4"	22.4	1200134	219.99
	14"	22"	1-1/4"	24.1	1200210	229.99
	16"	24"	1-1/4"	25.9	1204510	239.99
	18"	26"	1-1/4"	27.8	1204536	249.99
	20"	28"	1-1/2"	32.9	1200135	259.99
	24"	32"	1-1/2"	36.9	1204593	269.99
	30"	38"	1-1/2"	43.3	1200136	299.99
	32"	40"	1-1/2"	48.4	1204734	319.99
	36"	44"	1-3/4"	46.4	1204742	339.99
	40"	48"	1-3/4"	61.4	1204759	359.99
	48"	56"	1-3/4"	77.0	1200212	399.99
	16"	24"	1-3/4"	36.1	1200205	269.99
3-1/2" bore, #8 ORB ports 1" dia. pinholes Base pineye width: 4-1/4" Rod pineye width: 2-1/4" 28,863 lbs. push @ 3,000 PSI	18"	26"	1-3/4"	38.7	1200206	279.99
	20"	28"	1-3/4"	41.4	1200207	289.99
	24"	32"	1-3/4"	46.5	1200213	309.99
	36"	44"	2"	66.0	1200208	389.99
	48"	56"	2"	88.3	1200209	439.99

NOTE: Retracted length is measured centre of pinhole to centre of pinhole.

SHUR-LIFT 3,000 THREADED HEAD UTILITY CYLINDERS



	Stroke	Retracted length	Rod dia.	Wt. (lbs.)	ITEM	PRICE
4" bore, #8 ORB ports 1-1/4" dia. pinholes Base pineye width: 4-3/4" Rod pineye width: 2-3/4" 37,699 lbs. push @ 3,000 PSI	8"	17"	1-1/2"	32.0	1200137	259.99
	10"	19"	1-1/2"	38.6	1200231	269.99
	12"	21"	1-3/4"	43.9	1200232	289.99
	14"	23"	1-3/4"	47.3	1200139	299.99
	18"	27"	1-3/4"	53.8	1204619	329.99
	20"	29"	1-3/4"	54.0	1200233	359.99
	24"	33"	1-3/4"	60.0	1204635	389.99
	30"	39"	2"	80.0	1200140	419.99
	36"	45"	2-1/4"	99.0	1200235	499.99
	40"	49"	2-1/4"	108.0	1200236	519.99
5" bore, #8 ORB ports 1-1/4" dia. pinholes Base pineye width: 5-3/4" Rod pineye width: 2-3/4" 58,904 lbs. push @ 3,000 PSI	48"	57"	2-1/4"	120.0	1200142	549.99
	24"	33"	2"	85.2	1200238	479.99
	48"	57"	2-1/2"	159.0	1204700	769.99



SHUR-LIFT 2,500 SNAP RING UTILITY CYLINDERS

- 2,500 PSI max. continuous pressure
- Features cross tube mounting ends

	Stroke	Retracted length	Rod dia.	Wt. (lbs.)	ITEM	PRICE
1" bore, 1/8" NPT ports 1/2" dia. pinholes Base pineye width: 1-1/2" Rod pineye width: 1-1/2" 1,962 lbs. push @ 2,500 PSI	4"	12"	5/8"	2.9	1200066	124.99
	8"	16"	5/8"	4.0	1200068	134.99



SHUR-LIFT 3,000 THREADED HEAD IMPLEMENT CYLINDERS

- 3,000 PSI max. continuous pressure
- Features clevis mounting ends

	Stroke	Retracted length	Rod dia.	Wt. (lbs.)	ITEM	PRICE
1-1/2" bore #6 ORB ports 1/2" dia. pinholes	4"	14-1/4"	1"	5.7	1200255	144.99
	6"	16-1/4"	1"	6.7	1200256	154.99
	8"	18-1/4"	1"	7.7	1200257	164.99
	12"	22-1/4"	1"	9.8	1200259	174.99
2" bore #6 ORB ports 1" dia. pinholes	8"	20-1/4"	1-1/4"	15.6	1200263	179.99
	12"	22-1/4"	1-1/4"	17.9	1200265	199.99
	24"	34-1/4"	1-1/4"	26.2	1200270	249.99
	8"	20-1/4"	1-1/4"	18.0	1200271	189.99
2-1/2" bore #6 ORB ports 1" dia. pinholes	10"	20-1/4"	1-1/4"	19.8	1200272	199.99
	12"	22-1/4"	1-1/4"	21.3	1200273	219.99
	14"	24-1/4"	1-1/4"	23.0	1200274	239.99
	16"	26-1/4"	1-1/4"	24.5	1200275	244.99
	20"	30-1/4"	1-1/4"	27.4	1200277	269.99
	24"	34-1/4"	1-1/4"	31.1	1200279	279.99



SHUR-LIFT 3,000 THREADED HEAD IMPLEMENT CYLINDERS



- 3,000 PSI max. continuous pressure
- Features clevis mounting ends

	Stroke	Retracted length	Rod. dia.	Wt. (lbs.)	ITEM	PRICE
3" bore #8 ORB ports 1" dia. pinholes	8"	20-1/4"	1-1/4"	21.8	1200280	199.99
	10"	20-1/4"	1-1/4"	22.9	1200281	209.99
	12"	22-1/4"	1-1/4"	24.8	1200282	229.99
	14"	24-1/4"	1-1/4"	26.5	1200283	239.99
	16"	26-1/4"	1-1/4"	28.3	1200284	249.99
	18"	28-1/4"	1-1/4"	30.1	1200285	259.99
	20"	30-1/4"	1-1/2"	34.8	1200287	269.99
	24"	34-1/4"	1-1/2"	39.1	1200288	289.99
4" bore #8 ORB ports 1" dia. pinholes	10"	20-1/4"	1-1/2"	39.0	1200299	279.99
	12"	22-1/4"	1-3/4"	43.5	1200300	289.99
	16"	26-1/4"	1-3/4"	50.7	1200303	319.99

SHUR-LIFT 2,500 SNAP RING IMPLEMENT CYLINDERS



- 2,500 PSI max. continuous pressure
- 1" bore, 1/2" pinholes
- 1/8" NPT ports
- Features clevis mounting ends

Stroke	Retracted length	Rod dia.	Wt. (lbs.)	ITEM	PRICE
4"	14-1/4"	5/8"	3.2	1200071	124.99
6"	16-1/4"	5/8"	3.8	1200072	129.99

TIE ROD HYDRAULIC CYLINDERS

- 2,500 PSI max. continuous pressure
- Features clevis mounting ends



	Stroke	Retracted length	Rod. dia.	Wt. (lbs.)	ITEM	PRICE
2" bore 3/8" NPT ports 1" dia. pinholes	6"	18-1/4"	1-1/8"	16.3	8004980	79.99
	8"	20-1/4"	1-1/8"	18.4	1210003	84.99
	12"	22-1/4"	1-1/8"	20.9	8004380	99.99
	24"	34-1/4"	1-1/8"	39.8	8004981	129.99
2-1/2" bore 3/8" NPT ports 1" dia. pinholes	6"	18-1/4"	1-1/8"	18.4	8004983	84.99
	8"	20-1/4"	1-1/8"	20.2	1210005	89.99
	12"	22-1/4"	1-1/8"	23.4	8004382	109.99
	24"	34-1/4"	1-1/8"	33.4	8004383	139.99
3" bore 1/2" NPT ports 1" dia. pinholes	8"	20-1/4"	1-1/4"	26.2	1210006	94.99
	12"	22-1/4"	1-1/4"	30.1	8004984	119.99
	24"	34-1/4"	1-1/4"	43.3	1210010	149.99
3-1/2" bore 1/2" NPT ports 1" dia. pinholes	8"	20-1/4"	1-1/4"	32.3	1210002	99.99
4" bore 1/2" NPT ports 1" dia. pinholes	8"	20-1/4"	1-1/4"	39.7	1210007	109.99

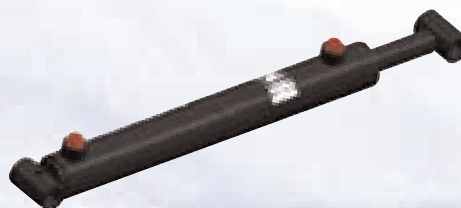


WARNING: FAILURE, IMPROPER SELECTION OR IMPROPER USE OF ANY HYDRAULIC PRODUCTS AND/OR SYSTEMS OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.

SHUR-LIFT 3,000 LOADER CYLINDERS



- Max. continuous pressure: 3,000 PSI
- Bore: 1-1/2"
- Rod dia.: 1"
- Ports: #6 ORB
- Pinhole dia.: 3/4"
- Base/Rod pineye width: 2"



Stroke	Retracted Length	Wt. (lbs.)	ITEM	PRICE
12"	20"	10.0	8106338	119.99
16"	24"	12.0	8106353	129.99

HYDRAULIC HOIST COMPONENTS



HYDRAULIC TRUCK & TRAILER HOIST WITH CYLINDER

- Build your own truck or trailer hoist for a low cost
- Upper lift arms are equipped with telescoping brackets
- Lever style design to give max. lifting capacity
- The hoist comes complete with a 4" bore cylinder making the hoist capable of lifting 7 tons (when installed according to manufacturer's specifications)
- If heavier lifting is required a 5" bore hydraulic cylinder (item 1200079) can be used to make a 12 ton hoist

1200188 – Wt. 250.0 lbs. 1199⁹⁹

HOIST CYLINDER ONLY

- Threaded head design
- 14" stroke, 2" shaft
- 21-1/2" retracted length
- #8 ORB ports
- 1-1/4" dia. shaft end with 1/2" pinhole
- Base pineye width: 7-1/4", pinhole dia.: 1-1/4"
- 3,000 PSI max. continuous pressure
- For single lever assembly

5" BORE – 12 ton capacity
1200079 – Wt. 58.4 lbs. 359⁹⁹

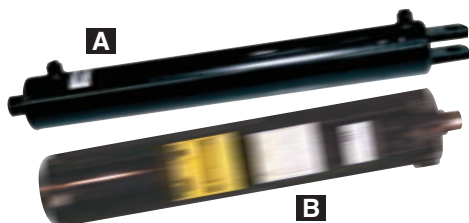


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Princess Auto provides product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change without notice.

LOGSPLITTER CYLINDERS



- A**
- Clevis mount with 1" pinhole in base end
 - Shaft end has been cut down to 1-1/2" with a 3/8" drilled pinhole
- B**
- Front mount with four 1/2"-13 UNC nuts
 - Shaft end has 1-1/2" 12 UNF threading

- Threaded head design
- 24" stroke, 2" shaft
- #8 ORB ports
- 3,000 PSI max. continuous pressure
- Can be used as replacement on Princess Auto logsplitters or to build your own

	Bore	Force (ton) @ 3,000 PSI	Wt. (lbs.)	ITEM	PRICE
A	3-1/2"	14-1/2	50.7	1200248	319.99
B	4"	19	65.0	8094815	349.99
B	5"	29	85.0	8094807	449.99

HYDRAULIC POWER PACK CYLINDER

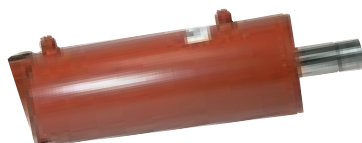


Check out our
shop presses on
pages 201-203

Designed to be used with shop presses as well as a variety of lifting, spreading, bending, straightening, pushing, pulling or clamping operations.

- 50 ton capacity
 - 6" bore, 5-1/2" stroke
 - 2" shaft
 - 11-3/4" retracted height
 - 3/8" NPT ports
 - Base plate measures: 7" x 9-1/2"
 - Ram speed @ 1.6 GPM: 25.4 seconds
extending 22.4
seconds retracting
 - 3,500 PSI max. continuous pressure
- 1200060** – Wt. 61.8 lbs. **399⁹⁹**
- REPLACEMENT END CAP**
1251370 – Wt. 0.6 lbs. **14.99**
- Replacement seal kits available by special order.

HYDRAULIC PRESS CYLINDER



- For building a 50 ton press
 - 6" bore, 10" stroke
 - 2" shaft
 - Base pineye width: 6-5/8", pinhole dia.: 1-1/4"
 - 3,600 PSI max. continuous pressure
- 1200083** – Wt. 80.3 lbs. **429⁹⁹**
- REPLACEMENT END CAP**
1252444 – Wt. 1.5 lbs. **19.99**

CUSTOM BUILD CYLINDER PROGRAM

Designed and Built to your Specifications
Delivery in 10 working days*



- 3,000 PSI max. continuous pressure
- Bore sizes from 1-1/2" to 6"
- Strokes from 2" to 48"
- Threaded head design
- O-ring boss ports for superior high pressure sealing
- A wide variety of port configurations, shaft sizes and mount types are available

To place an order, contact:

National Call Centre: **1-800-665-8685**
Factory Direct: **1-204-654-5232 ext. 368**
Fax: **1-204-668-4530**
or visit your nearest store.

* From receipt and confirmation of order (max. 5 pieces). Not including transit time.

CYLINDER ACCESSORIES

CYLINDER ENDS



A



B

A) CROSS TUBE

Drilled for 3/16" drive-in grease nipple.

Dimensions	Wt.	ITEM	PRICE
1" I.D. x 2-1/4" L	0.6	8001456	5.99
1" I.D. x 2-3/4" L	0.7	8001457	6.49
1" I.D. x 3-1/4" L	0.9	8001458	6.99
1" I.D. x 3-3/4" L	1.0	8001460	7.49
1" I.D. x 4-1/4" L	1.2	8001461	7.99
1-1/4" I.D. x 2-3/4" L*	1.5	8001469	9.99
1-1/4" I.D. x 4-3/4" L*	2.5	8001471	11.99
1-1/4" I.D. x 5-3/4" L*	3.1	8001472	12.99

* Heavy wall

B) MALE TANG

Use two to make a base end clevis.

Dimensions	Wt.	ITEM	PRICE
1" I.D. x 3/8" thick	0.4	8001473	8.49
1" I.D. x 1/2" thick	0.7	8001474	8.99
1" I.D. x 3/4" thick	1.0	8001475	9.99
1" I.D. x 1" thick	1.4	8001476	10.99

HYDRAULIC CYLINDER
REPLACEMENT
SEAL KITS

- Contain all the seals within each cylinder
- Fits all shaft sizes

SHUR-LIFT 3,000 KITS

Bore	Wt. (lbs.)	ITEM	PRICE
1-1/2"	0.1	8018423	13.99
2"	0.1	8018441	16.99
2-1/2"	0.1	8018450	20.99
3"	0.2	8018478	30.99
3-1/2"	0.1	1250105	32.99
4"	0.2	1255058	33.99
5"	0.3	1255066	39.99

SHUR-LIFT 2,500 KITS

Bore	Wt. (lbs.)	ITEM	PRICE
1"	0.1	1250023	9.99
1-1/2"	0.1	1251123	11.99
2"	0.1	1251131	13.99
2-1/2"	0.1	1250058	18.99
3"	0.2	1250060	23.99
3-1/2"	0.2	1250061	24.99
4"	0.3	1250062	27.99

CYLINDER BREATHERS

- Applications include gear boxes, oil tanks and hydraulic cylinders
- 7/8" hex head
- Just a drop of oil on the screen after installation will keep dust and dirt from entering your system

Wt. 0.1 lbs.

1291665 – 3/8" NPT

1291699 – 1/2" NPT

1290343 – #6 ORB

1290344 – #8 ORB 7⁹⁹

REPLACEMENT
END CAPS FOR
HYDRAULIC PRESSES

Replaces worn end cap or can be welded to customer's own dies.

Fits 30 ton press #3460052

on p.202

1250029 – Wt. 0.9 lbs. 24⁹⁹

Fits 50 ton press #3460068

on p.201

1251388 – Wt. 1.0 lbs. 19⁹⁹

Princess Auto is proud to offer an extensive assortment of products that carry our in-house brand – POWERFIST.

We select products that combine the best balance between quality and price.

Powerfist products are backed by our Royal Service Promise...

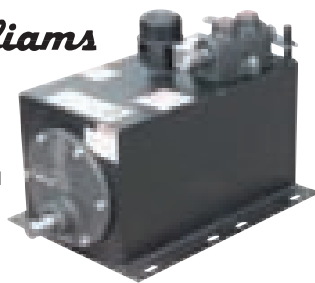


No sale is final until you're satisfied.

HIGH PRESSURE PISTON PUMP

Williams

Stocked in all stores west of Winnipeg.



PRESSURES UP TO 5,000 PSI.

This self-contained power unit is suited to a wide range of applications including hoists, presses, dump trucks etc.

Features:

- Built-in pressure relief
- High contamination tolerance
- Bi-rotational
- Double acting control valve
- 1" shaft (with 1/2" woodruff key)
- 3/8" NPT ports

Model No.	Displ. Cu. In./Rev.	Min/Max RPMs	GPM @ Max. RPM	Relief Valve Pressure Setting	Reservoir (GAL.)	Wt. (lbs.)	ITEM	PRICE
F98-4-21*	2.6	300-1,300	13.2	3,000	5.25	77.5	1220045	899.99

* Maximum pressure on this unit can be increased to 5,000 PSI when relief valve 7120007 is installed. Available by special order. Call 1-800-665-8685 for more information.

REPLACEMENT BREATHER CAPS

For Williams pumps.

1252923 - Wt. 0.1 lbs. **6⁹⁹**



PAL Hydraulic

**UNIQUE FLUID SOLUTIONS
POWERED BY SERVICE**

POWER PACKS

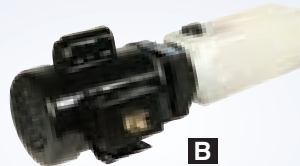
SPX STONE
HYDRAULIC SYSTEMS

ELECTRIC POWER PACKS with RESERVOIRS

- On/off switch wired to motor
- Directional control valve is required



A



B

C



- Ideal for presses & compactors
- Intermittent duty cycle
- Ideal for presses & compactors
- Continuous duty
- Low pressure, high volume
- Ideal for cattle squeezes
- Continuous duty

	Volt	HP	GPM	Relief Setting	Inlet/outlet ports	Reservoir (GAL)	Duty Cycle	Wt. (lbs.)	ITEM	PRICE
A	208-230	2	1.29	3,000 PSI	3/8" NPT	0.75	10%	51.9	1270023	699.99
B*	115/208-230	2	4.3 0.6	up to 600 PSI 3,600 PSI	3/8" NPT	1.0	Cont	53.2	1270038	999.99
C*	115/230	2	4	600 PSI	3/8" NPT	7.0	Cont	67.0	8098188	999.99

* Draws 22 amps @ 115 volts

ELECTRIC POWER PACKS



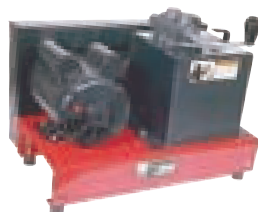
D



E

- On/off switch wired to motor
- Directional control valve is required
- Ideal for presses, scissor lifts, car hoists, etc.

	Volt	HP	Max. continuous pressure (PSI)	Max. continuous flow (GPM)	Inlet/Outlet ports	Wt. (lbs.)	ITEM	PRICE
D	115/230	2	1,700	1.9	#8 ORB	50.7	8028895	499.99
E	230	5	2,000	3.8	#10 ORB	60.0	8020072	549.99



ELECTRIC POWER PACK



- Complete with reservoir and control valve
- Ideal for presses and compactors

	Volt	HP	Max. continuous pressure (PSI)	Max. continuous flow (GPM)	Inlet/outlet ports	Reservoir (GAL)	Wt. (lbs.)	ITEM	PRICE
	115/230	2	2,200	1.75	3/8" NPT	1.75	97.4	1270099	879.99

SINGLE-STAGE GAS POWERED HYDRAULIC POWER PACKS

Portable hydraulic power packs for a wide variety of applications.

6.5 HP POWERFIST

- Max. cont. pressure: 3,000 PSI
- Max. cont. flow: 2 GPM
- Ports: #8 ORB

8114803 – Wt. 45.8 lbs. 499⁹⁹



NEW!

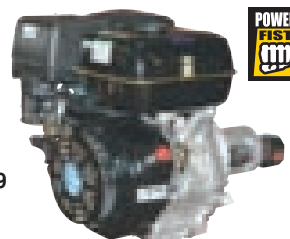


NEW!

13 HP POWERFIST

- Max. cont. pressure: 2,300 PSI
- Max. cont. flow: 4 GPM
- Ports: #8 ORB

8114837 – Wt. 86.0 lbs. 659⁹⁹

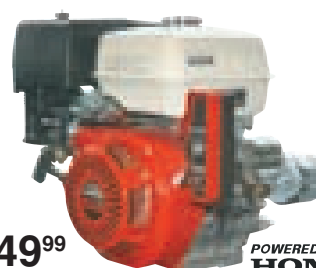


ELECTRIC START

13 HP HONDA GX*

- Max. cont. pressure: 2,500 PSI
- Max. cont. flow: 8 GPM
- Ports: #10 ORB

8056889 – Wt. 95.2 lbs. 1449⁹⁹



POWERED by HONDA

2-STAGE GAS POWERED HYDRAULIC POWER PACKS

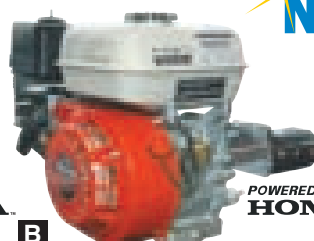


NEW!



POWERED by HONDA

A



POWERED by HONDA

B



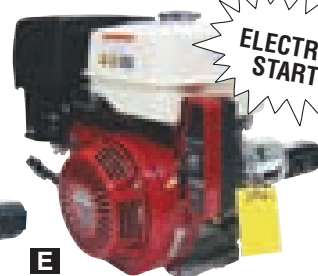
C

NEW!

- Ideal for logsplitters, presses and trash compactors
- These power packs can be used anywhere. They have a gas engine coupled directly to a 2-stage high/low hydraulic pump



D



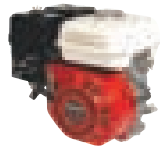

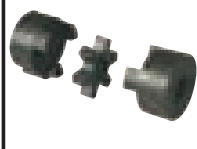


POWERED by HONDA

E

Engine	Max. PSI	GPM @ 3,600 RPM		Ports Inlet/Outlet	Wt. (lbs.)	ITEM	PRICE
		Low	High				
A 5 HP Honda GC	2,500	10.6	2.9	1" tube/1/2" NPT	41.3	1270037	599.99
B 5.5 HP Honda GX*	3,000	10.6	2.9	1" tube/1/2" NPT	48.3	1270004	849.99
C 6.5 HP Powerfist	2,000	10.6	2.9	1" tube/1/2" NPT	49.4	8114829	529.99
B 9 HP Honda GX*	3,000	16.0	4.0	1" tube/1/2" NPT	79.1	1270005	1199.99
D 13 HP Powerfist	2,500	22.0	6.1	1" NPTF/3/4" NPTF	99.0	8114845	999.99
E 13 HP Honda GX*	3,000	16.0	4.0	1" tube/1/2" NPT	95.2	8117723	1499.99

* Engine has low oil alert and overhead valves.

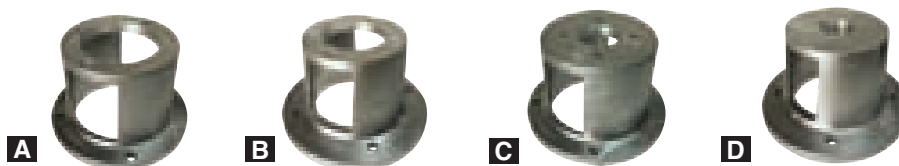
CUSTOM BUILT POWER PACKS

GAS ENGINES	ELECTRIC MOTORS	SHAFT COUPLERS	MOUNTING BRACKETS	HYDRAULIC PUMPS
				
SEE PAGE 88-89	SEE PAGES 79-81	SEE PAGE 93	SEE BELOW	SEE PAGE 13-14

WE CAN HELP YOU BUILD A POWER PACK TO YOUR SPECIFICATIONS.

- Over 150 different possible power pack combinations
- Our PAL Hydraulics team members can help you make the right selection of motor/gas engine, pump mounting bracket, shaft couplers and pump to meet your flow and requirements

PUMP MOUNTING BRACKETS



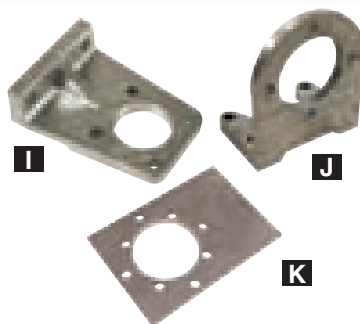
ELECTRIC C-FACE MOTOR BRACKETS

	Frame Size	Pump Mount Type	Wt. (lbs.)	ITEM	PRICE
A	56C, 56HC	2-Bolt SAE Type A	2.4	8009335	34.99
B	184TC	2-Bolt SAE Type A	4.9	8009353	49.99
C	56C, 56HC	4-Bolt	2.6	8009326	34.99
D	184TC	4-Bolt	5.2	8009344	49.99



GAS ENGINE BRACKETS

	HP	Pump Mount Type	Wt. (lbs.)	ITEM	PRICE
E	5	2-Bolt SAE Type A	1.9	8009308	39.99
F	8-20	2-Bolt SAE Type A	3.8	8001759	59.99
G	5	4-Bolt	1.3	2400463	39.99
H	8-20	4-Bolt + SAE Type "AA"	3.8	2400003	59.99
H	8-20	4-Bolt	3.7	8110751	49.99



FOOT MOUNT BRACKETS

	Pump Mount Type	Wt. (lbs.)	ITEM	PRICE
I	4-Bolt	0.8	8039712	26.99
J	2-Bolt SAE Type A	1.7	8009317	26.99

PUMP MOUNTING PLATE

	Pump Mount Type	Wt. (lbs.)	ITEM	PRICE
K	2-Bolt SAE Type B	7.7	8076028	34.99



HYDRAULIC POWER PACK MOUNTING PLATE

- Create your own power pack
- Premade mounting holes for easy component mounting
- Mount any of our gas or electric power packs and hydraulic reservoirs up to 15 gallon
- Constructed from 10 gauge steel and painted gloss black

8110728 – Wt. 34.0 lbs. **84⁹⁹**

12 VDC HYDRAULIC POWER PACKS

These self-contained power packs can be used for a wide range of applications including cranes, dump boxes, tailgate lifts and farm machinery. They are extremely reliable and perform well in a wide variety of applications. Each power pack consists of a 12 VDC motor, hydraulic pump, reservoir, valving system and remote power switch.

Specifications:

- 2.8 GPM @ 0 PSI @ 70 amps
- 1.3 GPM @ 2,500 PSI @ 260 amps
- Relief valve: preset @ 2,500 PSI, adjustable from 500 to 3,000 PSI
- Reservoir: .75 gallons

A) REPLACEMENT REMOTE SWITCHES

For single-acting, solenoid operated power pack (8002286).

8002439 – Wt. 1.2 lbs. **59⁹⁹**

For double-acting, solenoid operated power pack (8106148).

8002441 – Wt. 1.5 lbs. **69⁹⁹**

B) 2.5 GALLON POWER PACK RESERVOIR

Replace existing reservoir when extra oil capacity is needed.

8002505 – Wt. 2.4 lbs. **89⁹⁹**

C) SINGLE-ACTING, SOLENOID OPERATED

- Use with single-acting hydraulic cylinders
- Includes remote switch with 10 ft. of cord
- Ports: 3/8" NPT

8002286 – Wt. 35.1 lbs. **449⁹⁹**

D) SINGLE-ACTING, SOLENOID OPERATED

- Use with single-acting hydraulic cylinders
- 2.5 gallon reservoir
- Includes remote switch with 20 ft. cord
- Ports: 3/8" NPT

8102501 – Wt. 32.2 lbs. **549⁹⁹**

E) DOUBLE-ACTING, SOLENOID OPERATED

- Use with double-acting hydraulic cylinders
- Includes remote switch with 10 ft. cord
- Ports: #6 ORB

8106148 – Wt. 29.2 lbs. **549⁹⁹**

SPX STONE
HYDRAULIC SYSTEMS



A



B



C



D

**2.5 GALLON
RESERVOIR**



E

12 VDC DUAL VALVE "SNOW PLOW" POWER PACK

Specifications:

- 2.4 GPM @ 0 PSI @ 80 amps
- 1.3 GPM @ 1,800 PSI @ 170 amps
- Relief valve: preset @ 2,000 PSI
- Ports: 1/4" NPT
- Reservoir: 0.4 gallons
- Designed to operate all functions of a power operated angling snowplow
- The unit includes a lift-hold-lower function for the blade, with a continuous "float" capability
- A directional valve controls angling of the blade and 2 cross-over reliefs protect the system from damage should the blade become obstructed while plowing
- Includes remote switch box and 10 ft. cord

8002291 – Wt. 43.5 lbs. **899⁹⁹**



12 VDC 3-PISTON HYDRAULIC PISTON PUMP

Williams



**PRESSURE
UP TO 5,000 PSI**

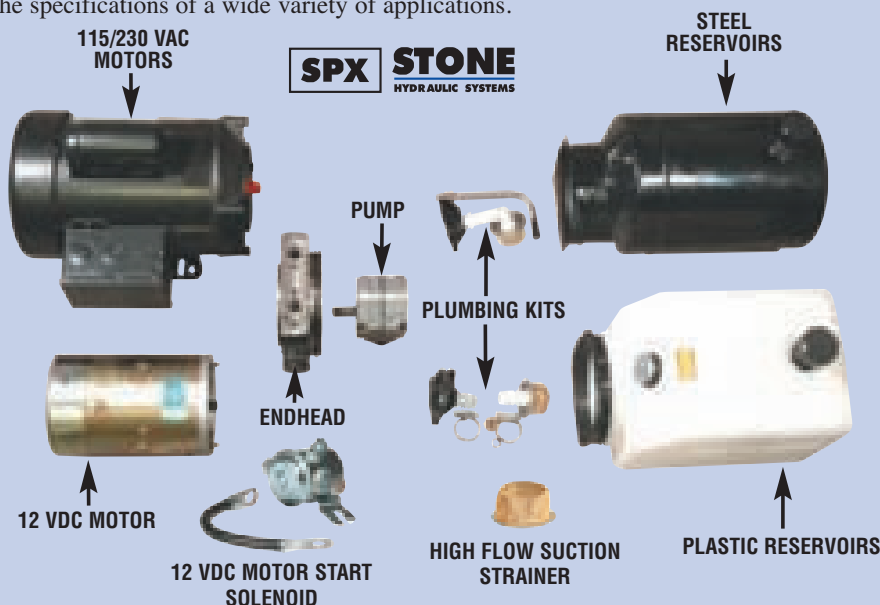
FEATURES:

- This self contained power pack can be used for a wide range of applications including cranes, dump boxes, tail gate lifts and farm machinery
- Double acting manually controlled
- Motor starts and stops by activating the manual valve control
- Max. continuous pressure: 5,000 PSI
- Max. continuous flow:
1.5 GPM @ 0 PSI @ 80 amps.
0.5 GPM @ 5,000 PSI @ 310 amps
- Relief valve: preset @ 3,000 PSI adjustable from 500 to 5,000 PSI
- Ports: 1/4" NPT
- Reservoir: 0.66 gallons

1270093 – Wt. 49.9 lbs. 599⁹⁹

SPX STONE POWER PACK CONVERSION COMPONENTS

These components can be used with our existing power packs to either repair or modify them to meet the specifications of a wide variety of applications.



DC MOTOR

Replacement motor for single or double acting power packs.

	ITEM	PRICE
12 VDC	1270041	179.99

AC MOTORS

Converts a DC powerpack to AC.

HP	RPM	Volts	ITEM	PRICE
1	3,450	115/230	1270042	499.99
2	3,450	115/230	1270043	599.99

PUMPS

Change your power packs output flow.

Displacement (Cu.In/Rev.)	GPM @ 2,500 PSI*	ITEM	PRICE
.061	0.7	1270047	139.99
.098	1.1	1270049	109.99
.122	1.3	1270050	109.99
.305	3.1+	1270054	149.99

*For 12 VDC power packs +@ 1,200 PSI

ACCESSORIES

TYPE	ITEM	PRICE
End head	1270056	99.99
12 VDC Motor Start Solenoid	1270088	42.99
High Flow Suction Strainer	1270079	19.99

These components are available in all of our retail stores and through our mail order department.

PLUMBING KITS

Mount your power pack either horizontally or vertically.

	ITEM	PRICE
Horizontal	1270077	29.99
Vertical	1270078	27.99

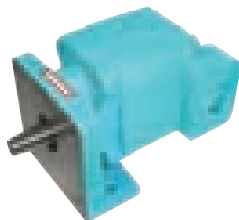
RESERVOIRS

Add more oil capacity to your power pack.

Type	Nominal Capacity (GALLONS)	ITEM	PRICE
Plastic	2.5	8002505	89.99
Plastic	3.0	1270076	149.99
Steel	1.5	1270067	89.99
Steel	2.5	1270068	109.99
Steel	3.0	1270069	129.99

12 VDC ELECTROMAGNETIC CLUTCH PUMP

PUMP



A compact, efficient way to provide a source of hydraulic power for most trucks and off-road vehicles.

Typical applications are snow removal equipment, grain augers and conveyors, tow trucks, salt and de-icer spreaders, and whenever hydraulic power is needed.

Features:

- High strength alloy steel gear and shaft set
- Pressure balanced wear plates maintain high pump efficiency throughout all operating ranges
- Doweled, high strength, 3-piece cast iron construction

Specifications:

- Mounting type: SAE Type "A" bracket with pad mount
- Rotation: clockwise
- Ports (rear and side): #20 ORB inlet, #12 ORB outlet
- Max. speed: 3,000 RPM

10 GPM @ 1,000 RPM @ 2,500 PSI

8045783 – Wt. 33.6 lbs. **379⁹⁹**

CLUTCH



- Turn on the clutch to engage, turn off to disengage
- Static breakaway torque of 90 ft.-lbs.
- Clutch draws 3.9 amps when engaged
- Solid forged rotor to maximize torque and prevent internal parts separation
- Forged machined pulley resists damage from abusive environments
- Wherever possible all clutch parts are e-coated to protect against corrosion

Voltage must not drop below 12 VDC or clutch will slip and become damaged.

V-BELT AA GROOVE

8045734 – Wt. 8.4 lbs. **199⁹⁹**

HYDRAULIC PUMPS

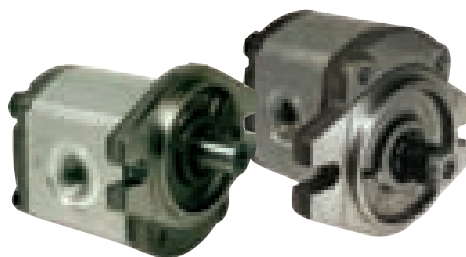


RONZIO

RONZIO HYDRAULIC GEAR PUMPS

Features	Benefits
High speed	Direct drive from gas engine
Reversible	Useful for more than one application

- 3/4" shaft with keyway
- CW rotation is reversible with minor changes to pump configuration (instructions included)
- Pump has SAE type "A" 2-bolt flange
- Cast iron end caps and steel gears with an aluminum gear housing



Model #	Displ. (Cu. In. /Rev)	Pressure (PSI)		Max. GPM	RPM		In/Out Port Sizes(ORB)	Wt. (lbs.)	ITEM	PRICE
		Max. Cont.	Peak*		Min.	Max.				
PZ2CG04	0.269	4,350	5,220	6.40	1,000	5,500	10/10	8.3	8025102	209.99
PZ2CG06	0.384	4,350	5,220	9.14	700	5,500	10/10	8.0	8025111	214.99
PZ2CG08	0.498	4,350	5,220	10.13	550	4,700	10/10	8.7	8025120	219.99
PZ2CG11	0.69	4,350	5,220	11.95	450	4,000	10/10	9.3	8025139	224.99
PZ2CG14	0.882	4,350	5,220	12.60	400	3,300	10/10	9.8	8025148	229.99
PZ2CG17	1.03	3,910	4,780	13.38	350	3,000	12/10	9.5	8025166	239.99
PZ2CG20	1.23	3,330	4,200	15.97	300	3,000	12/10	10.3	8025175	249.99
PZ2CG25	1.57	2,610	3,330	20.39	250	3,000	12/10	10.7	8025184	259.99
PZ2CG31	1.92	2,320	2,900	22.44	200	2,700	12/10	11.2	8025193	269.99

*At a 5% duty cycle.

PUMP TO MOTOR CONVERSION KIT

RONZIO



Converts pumps listed above to unidirectional motors.

8003893 – Wt. 0.1 lbs. **24⁹⁹**

PRINCE HYDRAULIC GEAR PUMPS



Features	Benefits
Non-symmetrical gears	Increased flow capacity, quieter running
PTFE composite bearings	Handle heavy loads, low shaft speeds and high levels of contamination

- 7/8" shaft with keyway
- Pump has SAE type "B" 2-bolt flange
- Aluminum housing with steel gears

Model #	Displ. (Cu. In./Rev.)	Max. Cont. Pressure	Max. GPM	Max. RPM	In/Out Port Sizes (ORB)	Rotation	Wt. (lbs.)	ITEM	PRICE
SP25A44..R	2.697	3,000	33.61	3,000	#20/#16	CW	14.0	8006587	289.99
SP25A44..L	2.697	3,000	33.61	3,000	#20/#16	CCW	14.1	8006589	289.99
SP25A52..R	3.179	2,500	39.63	3,000	#20/#16	CW	15.0	8006590	299.99
SP25A52..L	3.179	2,500	39.63	3,000	#20/#16	CCW	15.0	8006591	299.99

HALDEX 2-STAGE PUMPS

IDEAL FOR LOGSPLITTERS, PRESSES, & TRASH COMPACTORS



- Shaft: 1/2" dia. x 1-1/2" long (5/8" dia. on 1222173)
- Mount: 4-bolt (2-bolt SAE on 1222173)
- Ports: 1" tube inlet (1" NPTF on 1222173), 1/2" NPTF outlet (3/4" NPTF on 1222173)
- Rotation: clockwise
- Max. continuous pressure: 3,000 PSI
- Adjustable unloader range: 400 to 900 PSI (400 to 700 PSI on 1222173), set @ 650 PSI
- 500 to 4,000 RPM range

Low Pressure Gear Displacement	High Pressure Gear Displacement	Low Pressure Flow	High Pressure Flow	HP Required	Wt. (lbs.)	ITEM	PRICE
A 0.517 cu.in.	0.194 cu.in.	10.6 GPM	2.9 GPM	5 HP	8.4	1221118	199.99
A 0.776 cu. in.	0.258 cu. in.	16.0 GPM	4.0 GPM	8 HP	9.4	1221555	219.99
B 0.930 cu. in.	0.465 cu.in.	22.0 GPM	6.1 GPM	16 HP	19.0	1222173	499.99

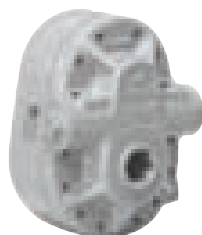
HYDRAULIC PUMPS/MOTORS



- These compact pumps/motors are built with cast iron bodies and hardened steel gears
- Suitable for use in agriculture, construction, and material handling
- Bi-rotational, 1/2" shaft, 1-1/2" long, 4-bolt flange with 1.78" pilot flange
- #4 ORB case drain port must be returned to tank when used as a motor if the return line pressure exceeds 50 PSI
- Can be belt driven with a max. side load of 150 lbs.
- Max. RPM: Pump 4,000 RPM/Motor 5,500 RPM

Displacement (cu. in./rev)	Pressure Rating		Flow		Port Size (ORB)	Wt. (lbs.)	ITEM	PRICE
	Continuous (PSI)	Intermittent (PSI)	@ 1,800 RPM (GPM)	@ 3,600 RPM (GPM)				
0.129	3,000	4,000	1.0	2.0	8	4.6	1220030	194.99
0.258	2,300	4,000	2.0	4.0	8	4.6	1220031	199.99
0.388	1,600	2,500	3.0	6.0	10	5.5	1220032	204.99
0.517	1,200	2,000	4.0	8.0	10	5.5	1220033	209.99

P.T.O. PUMPS



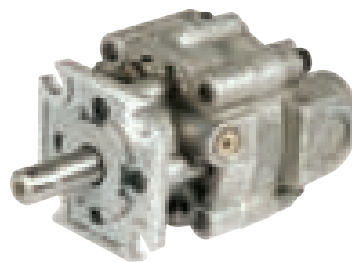
Ideal for use with front end loaders on tractors without integral hydraulics, landscape equipment and backhoes. Slips onto tractor P.T.O. shaft, no gearbox required.

- High tensile cast iron end plates and aluminum centre gear housing
- Self-adjusting wear plates on both sides of the gears offset wear and expansion
- #16 ORB inlet and #12 ORB outlet ports
- 1-3/8" dia., 6-tooth internal splined drive shaft
- Standard speed: 540 RPM for 6-tooth shaft, max. 600 RPM

Displacement	Max. PSI	Flow @ 540 RPM @ 2,000 PSI	Wt. (lbs.)	ITEM	PRICE
5.7 cu. in./rev.	2,250	11.4 GPM	35.9	8005268	679.99
9.9 cu. in./rev.	2,250	21 GPM	40.0	8005213	729.99

GEROTOR MOTOR

- Compact and lightweight
- High speed
- Bi-rotational
- Shaft dia.: 9/16"
- Ports: #10 ORB
- Max. speed: 5,000 RPM



Model #	Displ. (Cu. in. /Rev.)	Max. Cont. Pressure (PSI)	Flow (GPM) Required per 1,000 RPM	Max. Torque (in.-lbs.)	Shaft Side Load* (lbs.)	Wt. (lbs.)	ITEM	PRICE
MGG20025	0.580	2,000	2.51	184	70	2.8	1220383	259.99

* Maximum permissible shaft side load @ 2,500 RPM and 1,000 PSI.

HYDRAULIC ORBIT MOTORS



DANFOSS MOTORS offer superior performance in a wide range of applications: agriculture, forestry, mining, construction, and marine.

Features:

- Instantly reversible
- 1" shafts, 1/2" NPT ports
- Max. continuous flow: 16 GPM (except for models with 3 cu. in./rev. displ., which are 12 GPM)
- 3-year manufacturer's warranty

(For Danfoss to Char-Lynn interchangeability, please contact your nearest store.)



Model #	Displ. (Cu. In. /Rev.)	Max. Cont. Pressure (PSI)	Max. Speed (RPM)	Max. Torque (in.-lbs.)	Wt. (lbs.)	ITEM	PRICE
4-BOLT MOUNT							
151-2121	3.0	1,800	930	700	10.5	1220565	199.99
151-2122	4.8	1,800	780	1,110	10.9	1220573	209.99
151-2123	5.9	1,800	620	1,400	11.2	1220581	219.99
151-2125	9.5	1,700	390	2,080	11.8	1220599	239.99
151-2126	11.8	1,500	310	2,360	12.4	1220607	249.99
151-2127	14.8	1,400	250	2,700	12.8	1220008	259.99
151-2128	18.7	1,300	200	3,140	13.5	1220014	299.99
151-2129	23.8	1,200	155	3,630	14.4	1220631	319.99
2-BOLT MOUNT							
151-2081	3.0	1,800	930	700	11.1	1220649	199.99
151-2082	4.8	1,800	780	1,110	11.5	1220656	209.99
151-2083	5.9	1,800	625	1,400	11.7	1220672	219.99
151-2085	9.5	1,650	385	2,020	12.4	1220680	239.99

HIGHER TORQUE, HIGHER PRESSURE

The DANFOSS OMS Series Disc Valve Motor is truly a high torque, low speed hydraulic motor. Ideal for rock pickers, windrowers, and many other applications.

**Features:**

- Instantly reversible
- 1-1/4" shaft, #10 ORB ports
- Max. continuous flow: 20 GPM
- #4 ORB case drain port*

*Should be used when more than 1 motor are connected in series.



Model #	Displ. (Cu. In. /Rev.)	Max. Cont. Pressure (PSI)	Max. Speed (RPM)	Max. Torque (in.-lbs.)	Wt. (lbs.)	ITEM	PRICE
OMS315	19.2	2,030	240	6,206	27.6	1220022	499.99