

# HYTORC

The World's Most Trusted Industrial Bolting Systems

## PUMPS BROCHURE

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# HYTORC PUMP COMPARISONS

	MINI PUMPS			STANDARD PUMPS				POWER PUMPS	
	JETPRO S	JETPRO S-AIR	VECTOR MINI	VECTOR	HY-115/230	JETPRO 18.3	HY-AIR	HY-TWIN 230	HY-TWIN AIR
<b>Reservoir Capacity</b>	1 gallon	1 gallon	1 gallon	2-8 gallon	2-8 gallon	2-8 gallon	2-8 gallon	5-8 gallon	5-8 gallon
<b>Single Port</b>	✓	✓	✓	✓	o	—	o	—	—
<b>Multi Port</b>	—	—	—	✓	✓	✓	✓	✓	✓
<b>2 Button Controller</b>	✓	✓	—	—	✓	✓	✓	✓	✓
<b>LCD Controller</b>	—	—	✓	✓	—	—	—	—	—
<b>Manual Only</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Fully Automatic Available</b>	—	—	✓	✓	—	—	—	—	—
<b>Oil Cooler System</b>	—	—	✓	✓	✓	✓	✓	✓	✓
<b>Hour Meter</b>	—	—	✓	✓	o	—	—	—	—
<b>Low Voltage</b>	—	—	—	o	o	—	—	—	—
<b>ATEX Certification Available</b>	✓	—	—	—	—	—	✓	—	✓
<b>Upgradeable</b>	—	—	✓	✓	—	—	—	—	—
<b>Data Recording</b>	—	—	o	o	—	—	—	—	—
<b>Torque &amp; Angle</b>	—	—	o	o	—	—	—	—	—
<b>Bar Code Reader</b>	—	—	o	o	—	—	—	—	—
<b>Bluetooth</b>	—	—	o	o	—	—	—	—	—
<b>Open Protocol</b>	—	—	o	o	—	—	—	—	—

o = Optional.

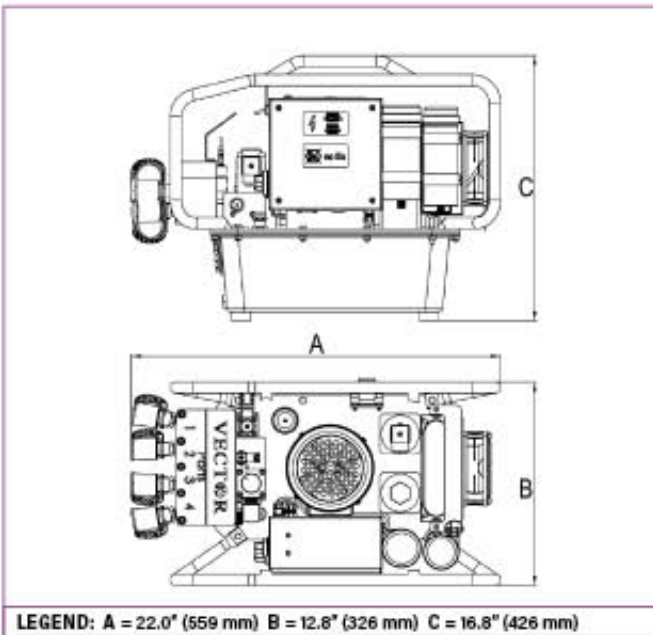


## VECTOR 4-STAGE PUMP

The HYTORC VECTOR pump stands alone as the fastest fully-automatic Hydraulic Power System thanks to its 4-stage high-flow design. Gauge-free operation allows the operator to simply enter the desired torque and HYTORC tool being used, eliminating the need for separate torque charts. The VECTOR's modular design makes it fully upgradeable - start with the manual, and upgrade to fully automatic documentation without buying a new pump. The fully automatic mode allows the operator to simply push the button and let the pump do all the work.

### COMPLETE KIT CONTENTS

- VECTOR Pump
- 2 gallons / 7.5 l of oil



### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	115v: 1Ph 90-125 / 60Hz; 230v: 1Ph 200-230V / 50+60Hz 400v: 3Ph 380-460/50+60 Hz		
<b>Data Recording</b>	Optional		
<b>Gauge</b>	Digital		
<b>Reservoir Capacity</b>	2 gals / 7.5 l		
<b>Stages</b>	4		
<b>Weight</b>	79 lbs. / 36 kg		
<b>15' Remote Control: Yes</b>	<b>Oil Cooler: Yes</b>		
<b>Ports</b>	1 or 4		
<b>Maximum Oil Flow Rate</b>	<b>HY-V115 (60 Hz)</b>	<b>HY-V230 (50Hz)</b>	<b>HY-V400 (50Hz)</b>
1,000 PSI	610 cu.in./min.	549 cu.in./min.	549 cu.in./min.
70 bar	10.0 l/min.	9.0 l/min.	9.0 l/min.
<b>Middle Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
3,900 PSI	171 cu.in./min.	147 cu.in./min.	147 cu.in./min.
270 bar	2.8 l/min.	2.4 l/min.	2.4 l/min.
<b>Middle + Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
6,300 PSI	110 cu.in./min.	85 cu.in./min.	85 cu.in./min.
440 bar	1.8 l/min.	1.4 l/min.	1.4 l/min.
<b>High Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
10,000 PSI	67 cu.in./min.	55 cu.in./min.	55 cu.in./min.
700 bar	1.1 l/min.	0.9 l/min.	0.9 l/min.



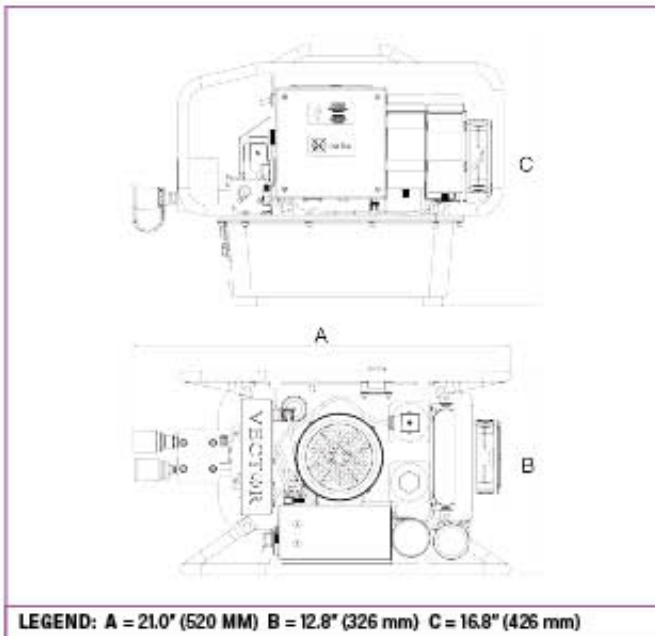


## VECTOR TORQUE & ANGLE PUMP

The HYTORC VECTOR TORQUE & ANGLE module makes the world's fastest fully-automatic hydraulic power system more versatile than ever. With its 4-stage high-flow design and gauge-free operation, simply select the HYTORC tool in use and input the desired angle; a single trigger pull will accurately and reliably execute precise Turn-of-Nut tightening. By eliminating the potential for human error, this VECTOR Pump greatly increases productivity; the available documentation feature allows complete job data capture for the entire bolting operation.

### COMPLETE KIT CONTENTS

- VECTOR Torque & Angle Pump
- 2 gallons / 7.5 l of oil



### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	115V: 1Ph 90-125 / 60Hz 230V: 1Ph 200-230V / 50+60Hz 400V: 3Ph 380-460/50+60 Hz		
<b>Data Recording</b>	Standard with T&A		
<b>Gauge</b>	Digital		
<b>Reservoir Capacity</b>	2 gals / 7.5 l		
<b>Stages</b>	4		
<b>Weight</b>	79 lbs. / 36 kg		
<b>15' Remote Control: Yes</b>	<b>Oil Cooler: Yes</b>		
<b>Ports</b>	1		
<b>Maximum Oil Flow Rate</b>	<b>HY-V-115 (60 Hz)</b>	<b>HY-V-230 (50Hz)</b>	<b>HY-V-400</b>
1,000 PSI	610 cu.in./min.	549 cu.in./min.	549 cu.in./min.
70 bar	10.0 l/min.	9.0 l/min.	9.0 l/min.
<b>Middle Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
3,900 PSI	171 cu.in./min.	147 cu.in./min.	147 cu.in./min.
270 bar	2.8 l/min.	2.4 l/min.	2.4 l/min.
<b>Middle + Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
6,300 PSI	110 cu.in./min.	85 cu.in./min.	85 cu.in./min.
440 bar	1.8 l/min.	1.4 l/min.	1.4 l/min.
<b>High Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
10,000 PSI	67 cu.in./min.	55 cu.in./min.	55 cu.in./min.
700 bar	1.1 l/min.	0.9 l/min.	0.9 l/min.

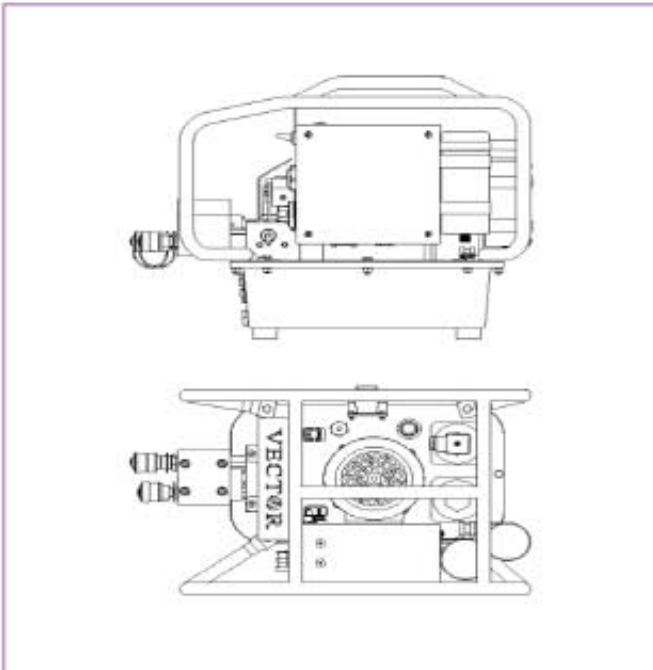


## VECTOR MINI PUMP

The VECTOR MINI Pump is the latest addition to HYTORC's line of advanced hydraulic power packs. Based on industry-leading VECTOR pump technology, this single-port high performance pump is 25% smaller and 35% lighter, for unmatched maneuverability and portability.

### COMPLETE KIT CONTENTS

- VECTOR MINI Pump
- 1 gallon / 3.8 l of oil



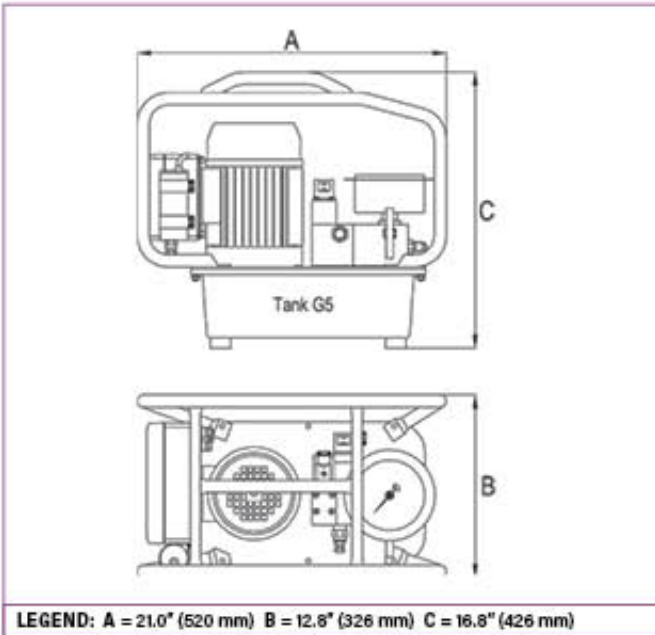
### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	115v and 230v	
<b>Data Recording</b>	Optional	
<b>Gauge</b>	(Not necessary but can be attached to the side of the valve block.)	
<b>Reservoir Capacity</b>	7 gals. / 2.7 l	
<b>Stages</b>	3	
<b>Weight</b>	48 lbs. / 22 kg (Manual) 52 lbs. / 23 kg (Automatic)	
<b>Maximum Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
580 PSI	250 cu. in./min.	330 cu. in./min.
40 bar	4.05 l/min.	5.4 l/min.
<b>Middle Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
2,175 PSI	80 cu. in./min.	91 cu. in./min.
150 bar	1.3 l/min.	1.5 l/min.
<b>High Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
10,000 PSI	26 cu. in./min.	31 cu. in./min.
700 bar	0.4 l/min.	0.5 l/min.
<b>15' Remote control</b>	Yes	



## HY-115/HY-230/HY-400 PUMPS

HYTORC's HY-Series of electrically operated hydraulic power packs are fast, reliable, efficient and economical. The HY-Series of 4-stage pumps will outperform any standard pump on the market. These hydraulic pumps operate at a very quiet ~80 dB. All pumps come equipped with an oil cooler, making overheating a thing of the past. Simple controls make for short set-up times. An optional Hour Meter is available to better track run times.



### PUMP SPECIFICATIONS AND FEATURES

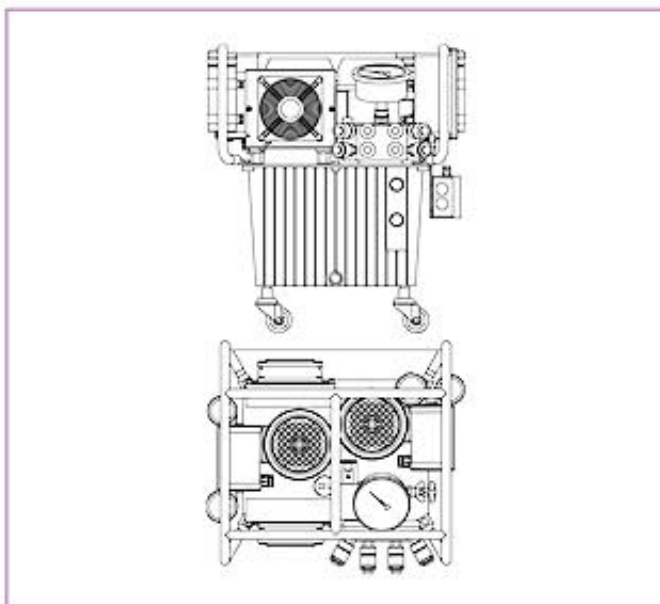
<b>Power</b>	115v (17 Amp); 230v (9 Amp); 400v (6 Amp)		
<b>Gauge</b>	0-10 K Psi		
<b>Reservoir Capacity</b>	1.35 gal. 5.1l		
<b>Stages</b>	4		
<b>Weight</b>	57 lbs. / 26 kg 60 lbs. / 27 kg		
<b>Hour Meter</b>	Optional		
<b>15' Remote Control: Yes</b>	<b>Oil Cooler: Yes</b>		
<b>Ports</b>	1 or 4		
<b>Maximum Oil Flow Rate</b>	<b>HY-V115 (60 Hz)</b>	<b>HY-V230 (50Hz)</b>	<b>HY-V400 (50Hz)</b>
1,000 PSI	610 cu.in./min.	549 cu.in./min.	549 cu.in./min.
70 bar	10.0 l/min.	9.0 l/min.	9.0 l/min.
<b>Middle Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
3,900 PSI	171 cu.in./min.	147 cu.in./min.	147 cu.in./min.
270 bar	2.8 l/min.	2.4 l/min.	2.4 l/min.
<b>Middle + Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
6,300 PSI	110 cu.in./min.	85 cu.in./min.	85 cu.in./min.
440 bar	1.8 l/min.	1.4 l/min.	1.4 l/min.
<b>High Oil Flow Rate</b>	<b>60 Hz</b>	<b>50 Hz</b>	<b>3Ph 400-460</b>
10,000 PSI	67 cu.in./min.	55 cu.in./min.	55 cu.in./min.
700 bar	1.1 l/min.	0.9 l/min.	0.9 l/min.





## HY-TWIN 230

This high-powered, electric 4-stage pump provides twice the speed and oil flow of any other available system. The HY-TWIN 230 is ideal for larger hydraulic tools or multi-tool systems. Delivering the power you need without compromising speed. The five-gallon reservoir provides enough oil to power up to four large tools at once and the built-in casters allow for increased mobility.



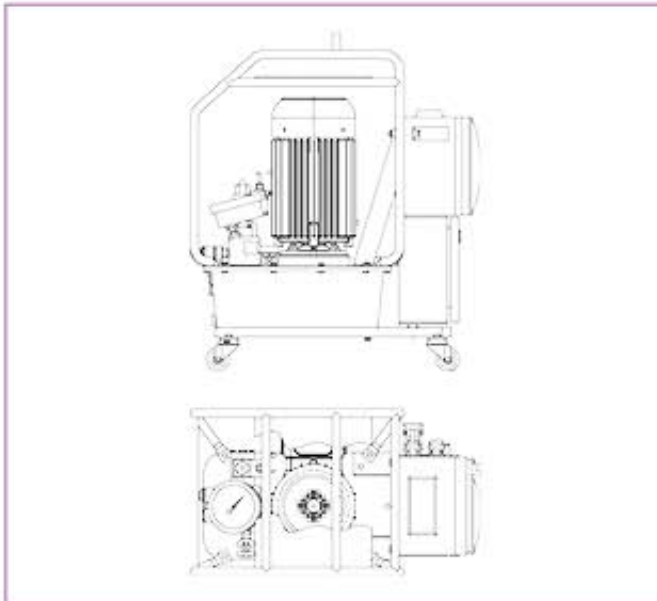
### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	230v (32 Amp)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity (Tank optional)</b>	5 gals. / 19 l
<b>Stages</b>	4
<b>Weight</b>	112 lbs. / 51 kg
<b>Maximum Oil Flow Rate</b>	1480 cu. in./min. / 24 l/min.
<b>Oil Cooler</b>	Yes
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes



## HY-EX 3-STAGE - EXPLOSION-PROTECTED ELECTRIC PUMPS

HYTORC HY-EX 3-STAGE Electric Pumps are the backbone of an intrinsically safe bolting system. The pump is licensed to EU-Directive 2014/34/EU (Atex 100a) class: EX II 2G Ex h IIB T3 Gb. These pumps are equipped with a calibrated gauge with certificate and a 15-ft (5m) remote control. An optional 4-tool adapter is also available.



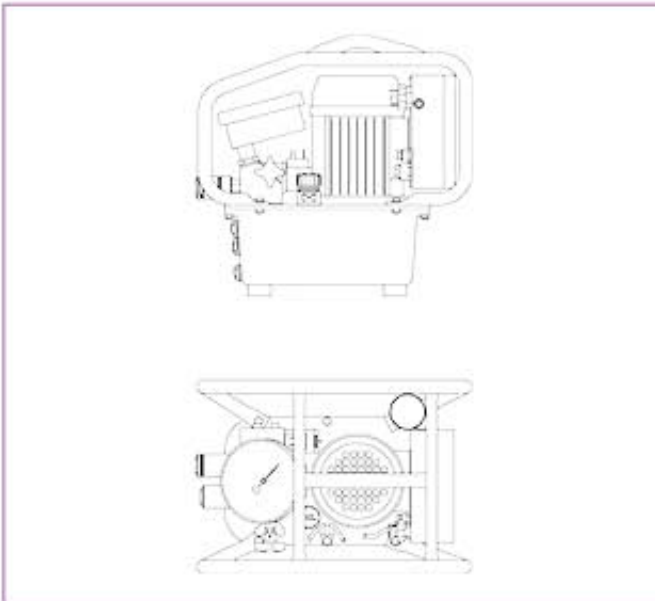
### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	115v (20 Amp), 230v (9 Amp), 400v (2,5 Amp)	
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)	
<b>Reservoir Capacity</b>	2 gals. / 7.5 l	
<b>Stages</b>	3	
<b>Weight</b>	112 lbs / 51 kg - without oil (400v) 157 lbs / 71 kg - without oil (115/230v)	
<b>Maximum Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
1,000 PSI	510 cu.in/min.	620 cu.in/min.
70 bar	8,0 l/min.	10 l/min.
<b>Middle Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
4,000 PSI	100 cu.in/min.	120 cu.in/min.
300 bar	1,6 l/min.	2,0 l/min.
<b>High Oil Flow Rate</b>	<b>50 Hz</b>	<b>60 Hz</b>
10,000 PSI	55 cu.in/min.	65 cu.in/min.
700 bar	0,9 l/min.	1,1 l/min.
<b>Oil Cooler</b>	No	
<b>ATEX Certification Available</b>	Yes	



## JETPRO S

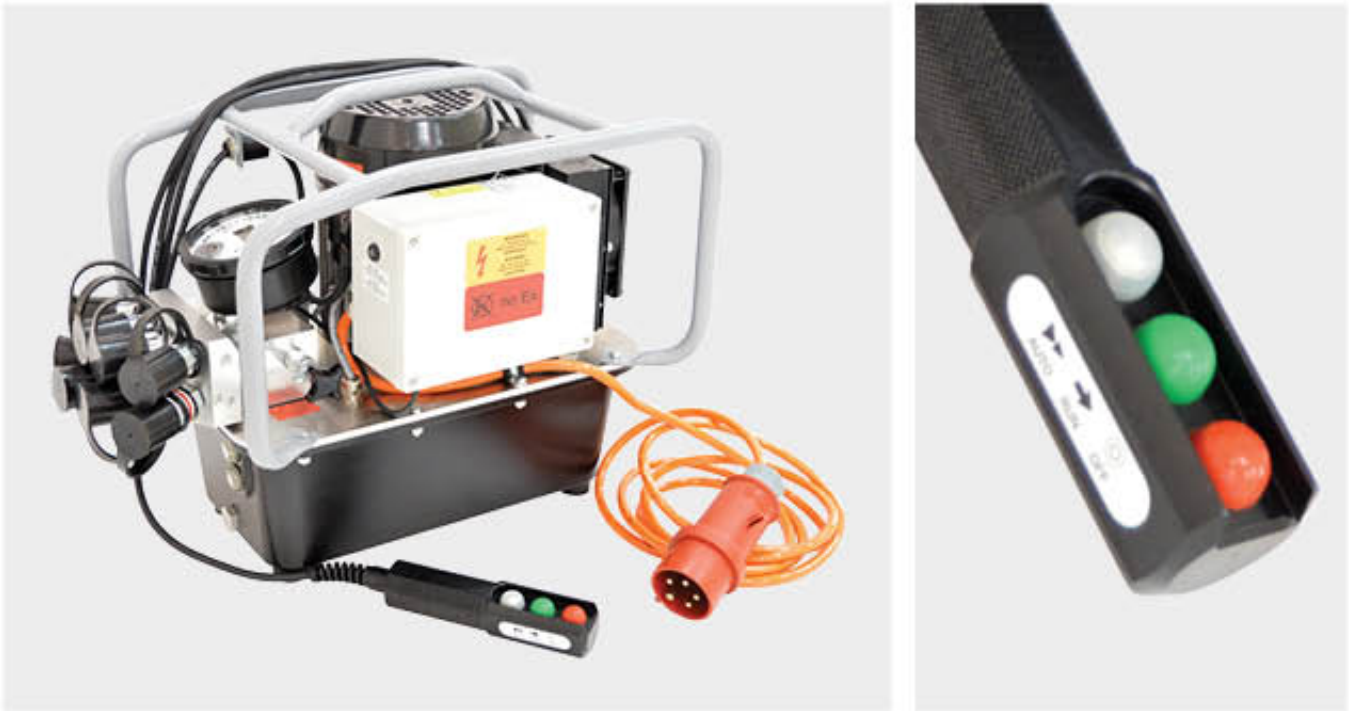
The JETPRO S 2-stage Hydraulic Power System is the most affordable lightweight pump on the market. The JETPRO's compact design and one-gallon reservoir alleviates weight restrictions like no other hydraulic pump which offers the operator efficient mobility. Simple two-button controls ensure the operator's ease of use while also speeding up the bolting process. The JETPRO operates at a very quiet ~80 dB.



### PUMP SPECIFICATIONS AND FEATURES

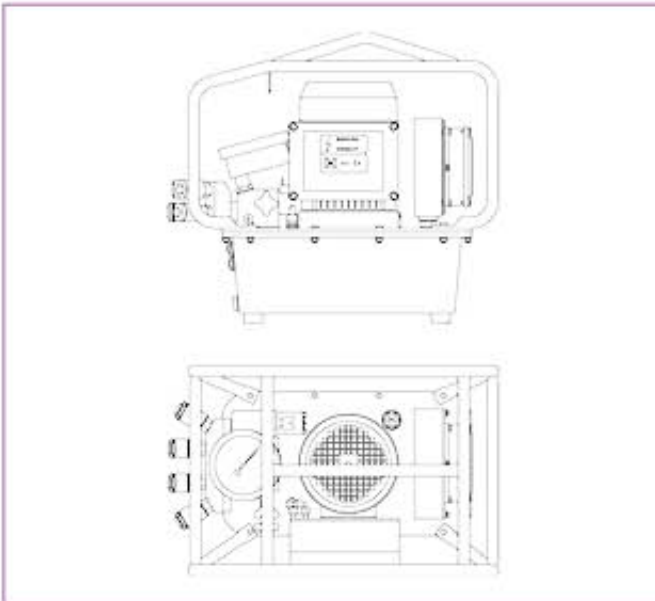
<b>Power</b>	115v (7.5 Amp) / 230v (4.0 Amp)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity</b>	0.8 gals. / 3.0 l
<b>Stages</b>	2
<b>Weight</b>	33 lbs. / 15 kg
<b>Maximum Oil Flow Rate</b>	310 cu. in./min. / 5 l/min.
<b>Oil Cooler</b>	No
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes





## JETPRO 18.3 SA

The JETPRO 18.3 SA is our high-performing pump, designed to work efficiently with our largest hydraulic systems. Its 4-stage motor provides 30% more oil flow without increased operating temperature through the use of an innovative built-in oil cooling system. A compact design with a two-gallon reservoir alleviates weight restrictions and offers the operator efficient mobility.



### PUMP SPECIFICATIONS AND FEATURES

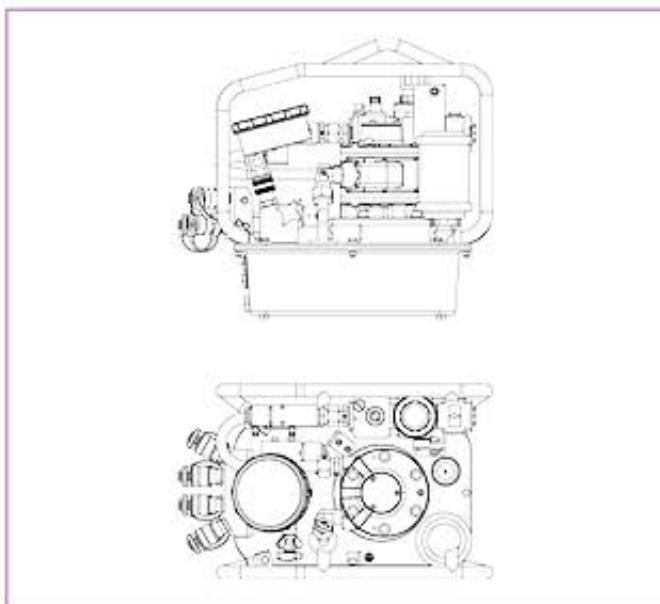
<b>Power</b>	380v - 460v (6 Amp)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity</b>	2 gals. / 7.5 l
<b>Stages</b>	4
<b>Weight</b>	64 lbs. / 29 kg
<b>Maximum Oil Flow Rate</b>	1,070 cu. in./min. / 18 l/min.
<b>Oil Cooler</b>	Yes
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes





## HY-AIR

Our HY-AIR is a 4-stage pump designed to reduce cycle time and improve productivity. A compact design with an optional one or two-gallon reservoir alleviates weight restrictions and offers the operator efficient mobility. Simple controls make for short set-up times. This system is part of our ATEX-approved bolting package for explosive environments.



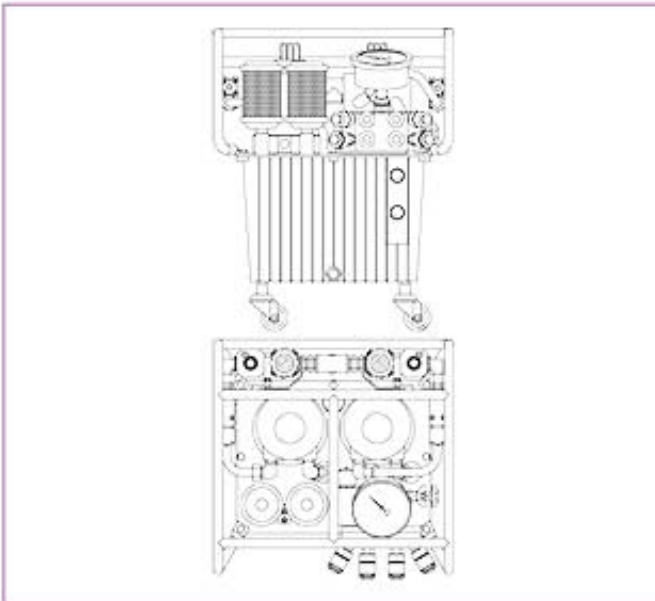
### PUMP SPECIFICATIONS AND FEATURES

<b>Power</b>	3,800 cu.in./sec. (62 l/sec.)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity</b>	1.35 gals. / 5.1 l (2 gals. / 7.6 l tank optional for the HY-Air)
<b>Stages</b>	4
<b>Weight</b>	46.3 lbs. / 21 kg
<b>Maximum Oil Flow Rate</b>	770 cu. in./min. / 13 l/min.
<b>Oil Cooler</b>	Yes
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes
<b>ATEX Certification Available</b>	Yes



## HY-TWIN AIR

This high-powered, twin air motor, 4-stage pump provides twice the speed and oil flow of any other available system. The HY-TWIN AIR is ideal for larger hydraulic tools or multi-tool systems. Delivering the power you need without compromising speed. The five-gallon reservoir provides enough oil to power up to four large tools at once and the built-in casters allow for increased mobility. This system is part of our ATEX-approved bolting package for explosive environments.



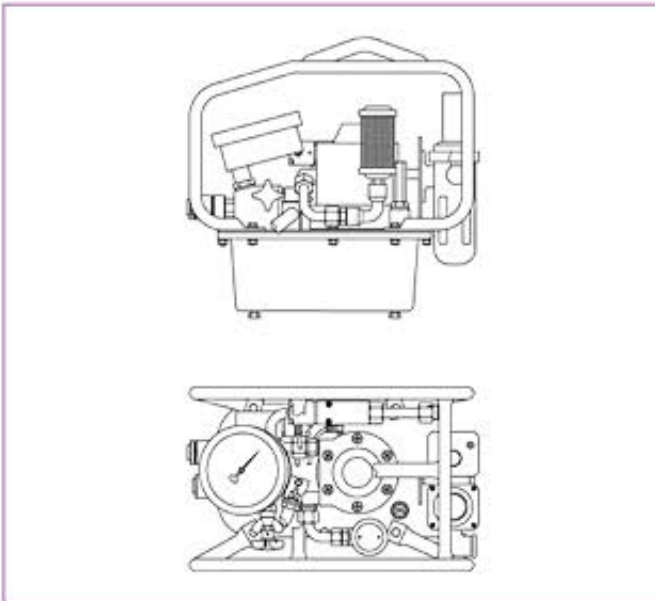
### PUMP SPECIFICATIONS AND FEATURES

<b>Air Consumption</b>	7,200 cu.in./sec. (118 l/sec.)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity (Tank optional)</b>	5 gals. / 19 l
<b>Stages</b>	4
<b>Weight</b>	98 lbs. / 44.4 kg
<b>Maximum Oil Flow Rate</b>	1,500 cu. in./min. / 25 l/min.
<b>Oil Cooler</b>	Yes
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes
<b>ATEX Certification Available</b>	Yes



## JETPRO S-AIR

Economically priced, the JETPRO S-AIR is an air-powered hydraulic power pack that combines industry-leading reliability with lightweight design. This 2-stage pump features a one-gallon reservoir for lightweight portability. The intuitive design of the one button control ensures improved speed and efficiency in the field. This system is part of our ATEX-approved bolting package for explosive environments.



### PUMP SPECIFICATIONS AND FEATURES

<b>Air Consumption</b>	1,900 cu.in./sec. (31 l/sec.)
<b>Gauge</b>	0-10 k PSI (+/-1% Accuracy)
<b>Reservoir Capacity</b>	0.8 gals. / 3.0 l
<b>Stages</b>	2
<b>Weight</b>	35 lbs. / 16 kg
<b>Maximum Oil Flow Rate</b>	370 cu. in./min. / 6 l/min.
<b>Oil Cooler</b>	No
<b>Protective Caging</b>	Yes
<b>15' Remote Control</b>	Yes
<b>ATEX Certification Available</b>	Yes



## **MISSION STATEMENT**

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**OUR MISSION IS TO OPTIMIZE SAFETY, QUALITY AND SCHEDULE IN INDUSTRIAL BOLTING THROUGH INNOVATIVE SOLUTIONS AND AN UNYIELDING COMMITMENT TO WORLD CLASS CUSTOMER SERVICE.**

**WITH OVER 50 YEARS OF EXPERIENCE FOCUSED ENTIRELY ON DEVELOPING THE HIGHEST QUALITY INDUSTRIAL BOLTING SYSTEMS, HYTORC IS THE MOST TRUSTED NAME IN THE INDUSTRY.**





# HYTORC WORLD HEADQUARTERS

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THE HYTORC UNIVERSE IS MADE UP OF  
OVER 1,000 TRAINED BOLTING SPECIALISTS  
TO SUPPORT YOUR BOLTING NEEDS IN  
OVER 100 COUNTRIES.

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Locate your nearest HYTORC representative:

[HYTORC.COM/WORLD](https://www.hytorc.com/world)