

SERIES: PAMI Mini Air Pump



The **PAMI** Air powered hydraulic pump is a lightweight, high performance air power pack, optimised to be perfect for pressurising a single tensioner or sets of smaller tools.

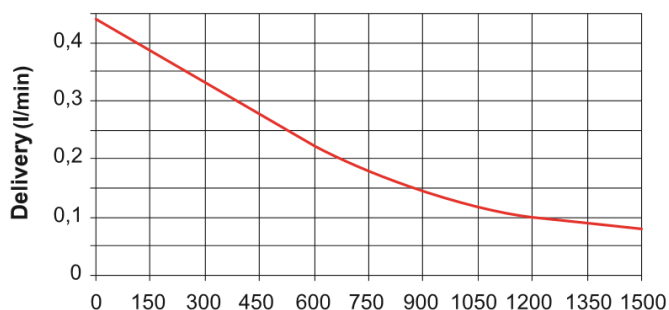
They are a perfect alternative to using a hand pump, but without needing the extra flow rate of a standard PAXX air pump.

Model **PAMI-1500** is the standard option for 1500 bar hydraulic tensioners. With a 2.4 L tank, and nearly 0.1 L/min flow at max pressure, the pump is suitable for most tensioner applications.

At only 15 kg and with a compact size its is easily portable and ideal for close confinement applications.

COMPACT DESIGN

- 340 x 230 x 390 mm compact size
- 15 kg weight
- 1500 bar max pressure
- 5-8 bar air pressure
- 500 l/min min air flow
- Powder coated steel frame
- Dual scale pressure gauge
- Quick connect coupling outlet
- Air silencer included
- Air pressure gauge and regulator
- 2.4L tank
- ISO 10,32,46 oil compatible



SAFE AND RELIABLE

- CE marked
- Pressure test certification
- Gauge calibration
- Full colour operating and safety manual
- High Cycle/long life performance
- 50° max operating temperature
- Air pressure safety relief valve
- Internal safety relief valve
- Outlet pressure regulator

IN STOCK FOR QUICK DELIVERY

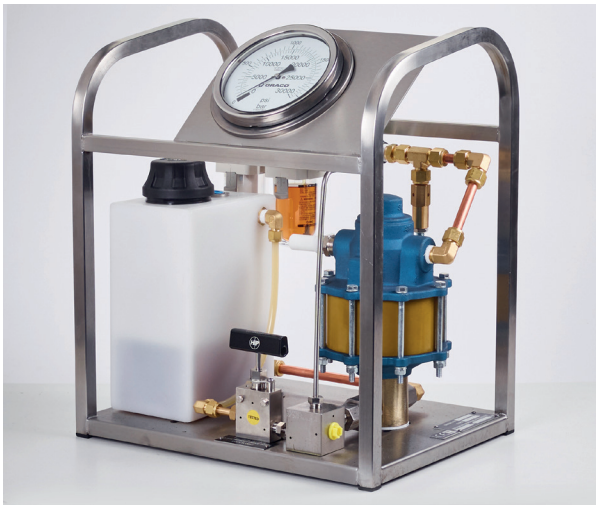
REDUCED DOWNTIME

PAMI air powered pumps have extensive use in the most demanding of applications. Proven, safe and very reliable.

QUALITY SUPPORT AND SERVICE

Pumps are supplied with pressure test and gauge calibration certificates. Comprehensive operating and safety manuals, and 24hr telephone support from TensionPro engineers is included free of charge

SERIES: PAXX Air Powered Hydraulic Pumps



PAXX Air powered hydraulic pumps have been optimised to be perfect for pressurising hydraulic bolt tensioners. They are also suitable for with all high pressure hydraulic systems such as hydraulic jacks, pressure and hydro testing.

Model **PASF-1500** is the standard option for 1500 bar hydraulic tensioners. Our complete range covers other pressure ratings, and we also offer high flow options for when there are many tools in operation simultaneously. Contact our sales team if you require guidance on selection.

COMPACT DESIGN

- 420 x 420 x 390 mm compact size
- Stainless steel frame
- Dual scale pressure gauge
- Air silence included = 85 dBA max
- 4.5L tank
- ISO 10,32,46 oil compatible

REDUCED DOWNTIME

PAXX air powered pumps have over 50 years history of use in the most demanding of environments. Proven, safe and very reliable.

Part Number	Flow Rate	Max Working Pressure		Piston Volume cc/stroke	Pressure Ratio	Gauge Scale		Weight kg
		bar	psi			bar	psi	
PASF-1000	Standard Flow	1000	14,500	1.6	280:1	0-1700	0-25,000	19.5
PAHF-1000	High Flow	1000	14,500	6.1	240:1	0-1700	0-25,000	22.5
PASF-1500	Standard Flow	1500	21,750	1.0	440:1	0-2000	0-30,000	19.5
PAHF-1500	High Flow	1500	21,750	4.5	330:1	0-2000	0-30,000	22.5
PASF-2000	Standard Flow	2000	29,000	1.0	440:1	0-2500	0-40,000	19.5
PAHF-2000	High Flow	2000	29,000	3.2	460:1	0-2500	0-40,000	22.5
PASF-2500	Standard Flow	2500	36,250	1.0	440:1	0-3500	0-50,000	19.5
PAHF-2500	High Flow	2500	36,250	3.2	460:1	0-3500	0-50,000	22.5
PASF-3000	Standard Flow	3000	43,500	0.8	555:1	0-3500	0-50,000	19.5
PASF-3000	High Flow	3000	43,500	2.0	740:1	0-3500	0-50,000	22.5

SAFE AND RELIABLE

- CE marked
- Pneumatic filter/regulator/lubricator included
- Pressure test certification
- Gauge calibration
- Full colour operating and safety manual
- High Cycle/long life performance
- 50° max operating temperature
- Air pressure safety relief valve
- Quick Connect Coupling Outlet
- Outlet pressure regulator

QUALITY SUPPORT AND SERVICE

Pumps are supplied with comprehensive operating manuals, pressure test and gauge calibration certificates. 24 hr telephone support.

Optional Extras

-ATEX	ATEX Certified
-PT	Digital Pressure Transducer
-SS	Stainless Steel Tank
-CRO	Chart Recorder Outlet
-TWIN	Twin Port Outlet

SERIES: PAXX Air Pump Technical Data



SPECIFICATION

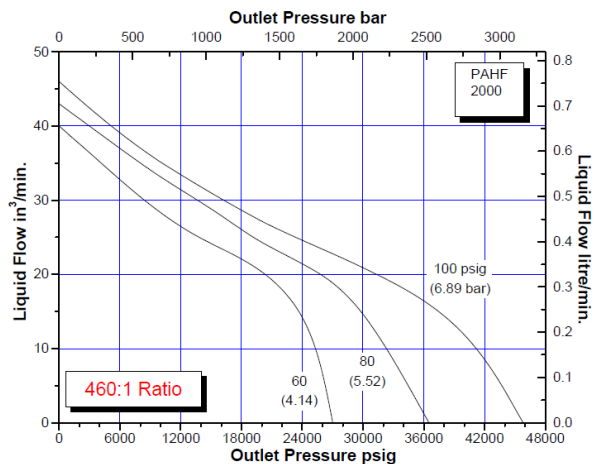
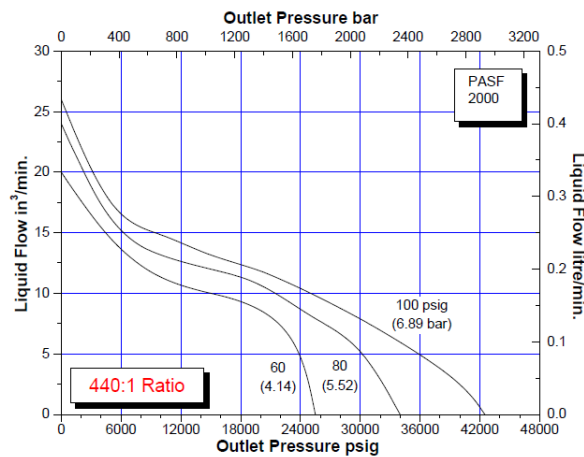
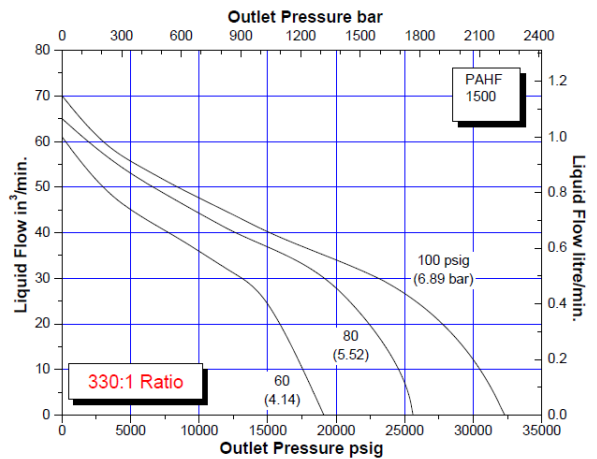
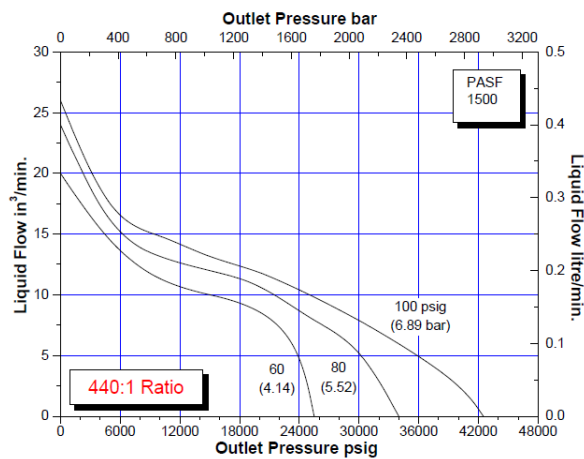
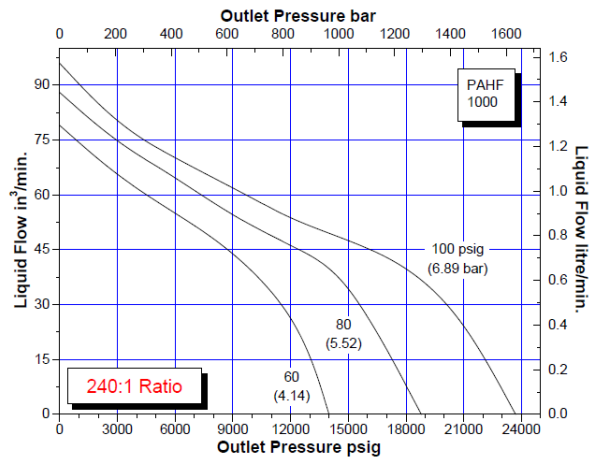
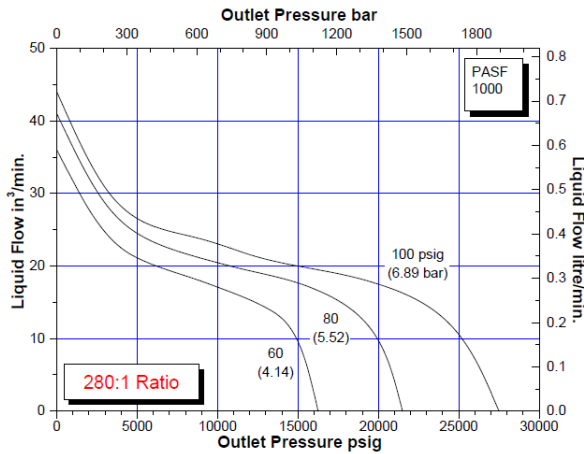
- 420 x 420 x 390 mm
- Stainless steel frame
- Dual scale pressure gauge
- Single scale MPa gauge option
- Air silence included = 85 dBA max
- 4.5L tank
- ISO 10,32,46 oil
- Pneumatic filter/regulator/lubricator
- 0-50° operating temperature
- Air pressure safety relief valve
- Outlet pressure regulator
- Required air pressure 4-7 bar (60-100 psi)

Part Number	Flow Rate	Max Working Pressure		Piston Volume cc/stroke	Pressure Ratio	Gauge Scale		Weight kg
		bar	psi			bar	psi	
PASF-1000	Standard Flow	1000	14,500	1.6	280:1	0-1700	0-25,000	19.5
PAHF-1000	High Flow	1000	14,500	6.1	240:1	0-1700	0-25,000	22.5
PASF-1500	Standard Flow	1500	21,750	1.0	440:1	0-2000	0-30,000	19.5
PAHF-1500	High Flow	1500	21,750	4.5	330:1	0-2000	0-30,000	22.5
PASF-2000	Standard Flow	2000	29,000	1.0	440:1	0-2500	0-40,000	19.5
PAHF-2000	High Flow	2000	29,000	3.2	460:1	0-2500	0-40,000	22.5
PASF-2500	Standard Flow	2500	36,250	1.0	440:1	0-3500	0-50,000	19.5
PAHF-2500	High Flow	2500	36,250	3.2	460:1	0-3500	0-50,000	22.5
PASF-3000	Standard Flow	3000	43,500	0.8	555:1	0-3500	0-50,000	19.5
PASF-3000	High Flow	3000	43,500	2.0	740:1	0-3500	0-50,000	22.5

Part Number	Air Consumption l/min at 100 psi	Outlet pressure (bar) for given Air Pressure (bar)						
		1	2	3	4	5	6	7
PASF-1000	800	275	550	825	1100	1375	1650	1925
PAHF-1000	1600	237	474	711	948	1185	1422	1659
PASF-1500	800	425	850	1275	1700	2125	2550	2975
PAHF-1500	1600	323	646	969	1292	1615	1938	2261
PASF-2000	800	425	850	1275	1700	2125	2550	2975
PAHF-2000	1600	458	916	1374	1832	2290	2748	3206
PASF-2500	800	425	850	1275	1700	2125	2550	2975
PAHF-2500	1600	458	916	1374	1832	2290	2748	3206
PASF-3000	800	550	1100	1650	2200	2750	3300	3850
PASF-3000	1600	740	1480	2220	2960	3700	4440	-

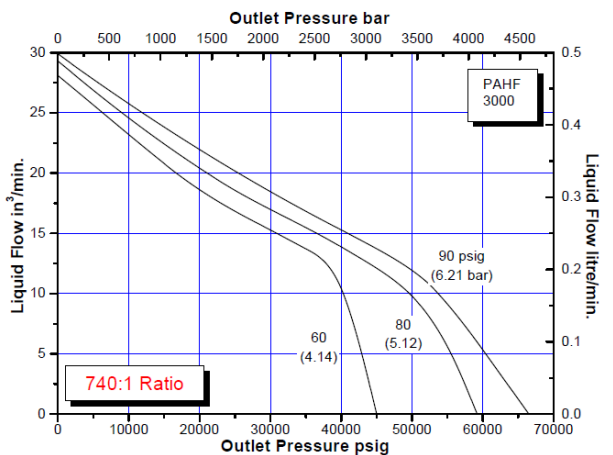
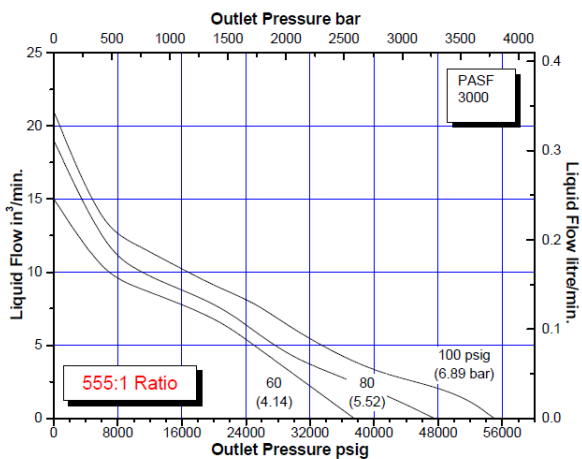
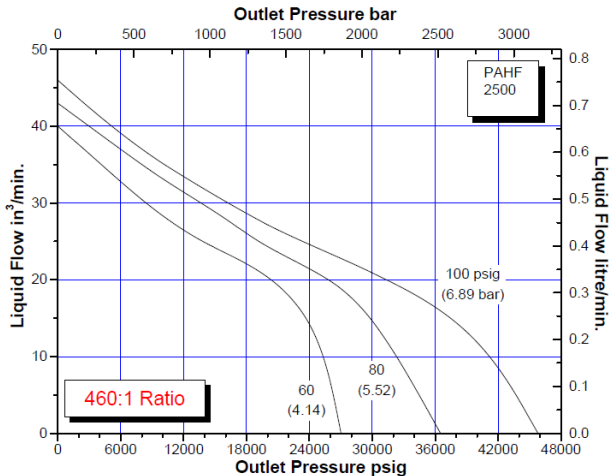
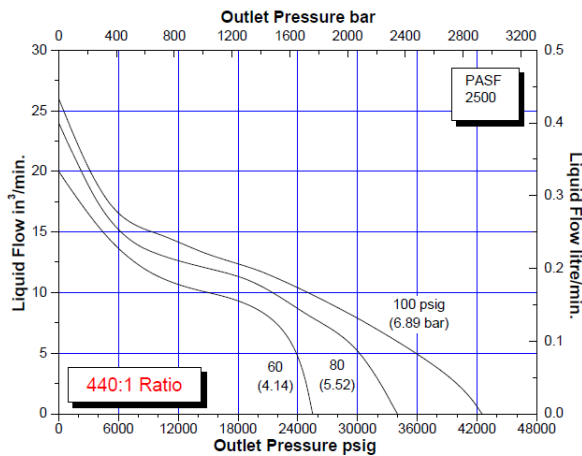
SERIES: PAXX Air Pump Technical Data

Approximate Rates of Discharge



SERIES: PAXX Air Pump Technical Data

Approximate Rates of Discharge



Outlet Connector

Pump Pressure Rating	Quick Connector Part
1000 bar	FQCC-115-1000
1500 bar	FQCC-116-1500
2000 bar	FQCC-125-2500
2500 bar	FQCC-125-2500
3000 bar	FQCC-135-3000

Special Options

Part Number Code	Description
-ATEX	ATEX Certified
-PT	Digital Pressure Transducer
-SS	Stainless Steel Tank
-CRO	Chart Recorder
-TWIN	Twin Port Outlet

SERIES: PHXX Hydraulic Hand Pump



TensionPro two stage hydraulic hand pumps come equipped with a pressure gauge as standard.

The gauge provides the user with precise pressure control. The gauge is directly mounted onto the pump and protected by the specially designed pump lever. The two stage function makes the pump quick and easier to operate, allowing the connected tensioner or equipment to quickly and safely reach its working pressure.

The pumps are robust and well suited for harsh environments and rough handling as found in workshops and other mobile and industrial environments.

Suitable for use with all TensionPro and all others brands of tooling and equipment.

Available from stock along with a wide range of hydraulic hose and fittings.

LOW handle effort for easy, quick and safe use - reduces operator fatigue.

Intergrated gauge into handle for compact size and added protection.

- CE marked
- Light and strong aluminium tank
- 700, 1000, 1500 and 2500 bar options
- Dual scale psi/bar 100mm gauge
- Single scale MPa gauge option
- Fitted with Quick Connector outlet
- Return port
- Carry handle
- Mounting holes for fixed installations
- Pressure tested and certified
- Available from stock for quick delivery

Part Number	Max Pressure		Reservoir litre	Pump Stroke Capacity cm ³		Max Handle Effort N	Weight kg	Size l x w x h mm
	bar	psi		Low	High			
PHSL-700	700	10,000	2.4	20	2	320	9.9	620x130x170
PHSS-1000	1000	14,500	1	20	1	230	8.1	620x130x170
PHSL-1000	1000	14,500	2.4	20	1	230	9.9	620x130x170
PHSS-1500	1500	21,750	1	20	1	370	8,1	620x130x170
PHSL-1500	1500	21,750	2.4	20	1	370	9.9	620x130x170
PHSL-2500	2500	36,250	2.4	20	0.7	460	10.5	620x130x170

PEMA+ Electric Tensioner Pump



- CE marked
- 1500 bar maximum pressure
- Dual scale psi/bar 100mm gauge
- Single scale MPa gauge option
- Swivel 116 quick connect outlet
- Strong durable frame with lifting points
- <70 dBa quiet operation
- 3.5L tank with level glass
- Safety pressure release valve
- Pressure setting valve
- Full pendant control
- Integrated oil cooler
- Hour meter
- Fine mesh filtration
- Available from stock for quick delivery

TensionPro PEMA+ electric powered hydraulic pumps are robust, multi-purpose units suitable for all types of bolt tensioning. The unit is a perfect match with the duo wind turbine range of TensionPro bolt tensioning tools.

The pump is optimised to work with high reliability in adverse environmental conditions and rough handling. Ideal for use on-site or in the factory, the pumps incorporate calibrated gauges and are fitted with a safety pressure release valve and a pressure setting valve for precise control.

The pump is compact and has a high specification motor for low weight and low noise operation.

Integrated oil cooler for continued operation with fast, multiple operations in hot conditions.

Lifting points built into the frame for safe lifting and manoeuvring on site and up and around the wind turbine.

Swivel 116 series quick connect coupling for fast hose connection and correct alignment.



Part Number	Max Pressure		Electric Supply		Dry Weight	Motor Power	Size
	bar	psi	Voltage	Frequency	kg	W	l x w x h mm
PEMA+230	1500	21,750	220-240	50	36	1.1	665x370x340
PEMA+110	1500	21,750	100--120	60	37	0.55	665x370x340

Compact Electric Pump



TensionPro Electro Max electric powered hydraulic pumps are robust, multi-purpose units suitable for all types of bolt tensioning. The unit is a perfect match with the **duo** wind turbine range of TensionPro bolt tensioning tools.

The pump is optimised to work with high reliability in adverse environmental conditions and rough handling as found in workshops and other mobile and industrial environments. The pumps incorporate calibrated gauges and are fitted with a safety pressure release valve and a pressure setting valve for precise control.

The pump is compact and has a high specification motor for low weight and low noise operation.

NEW Process Improvement

Secondary **FMF Fine Mesh Filter** improves reliability of equipment by cleaning hose and tensioner equipment through the filter unit before tensioning operation. The filter



bypasses the pump internal components. This ensures the reservoir, hoses and tool oil is free from contamination which gives excellent protection for both pump and the bolt tensioners.

- CE marked
- 1500 and 2500 bar options
- Dual scale psi/bar 100mm gauge
- Single scale MPa gauge option
- Fitted with Quick Connector outlet
- Strong durable frame
- <70 dBa quiet operation
- 5L tank with level glass
- Safety pressure release valve
- Pressure setting valve
- Full pendant control
- Optional FMF secondary fine mesh filter
- Available from stock for quick delivery

Part Number	Max Pressure		Electric Supply		Dry Weight	Motor Power	Size
	bar	psi	Voltage	Frequency	kg	W	l x w x h mm
PEMA-1500-01-230	1500	21,750	220-240	50/60	36	0.75	380x510x560
PEMA-1500-01-120	1500	21,750	100--120	50/60	37	0.75	380x510x560
PEMA-2500-01-230	2500	36,250	220-240	50/60	36	0.75	380x510x560
PEMA-2500-01-120	2500	36,250	100-120	50/60	37	0.75	380x510x560

tensionpro

THE BOLT TENSIONER EXPERTS

electro max

DATASHEET DS-51

Electric Pump Excellence

TensionPro Electro Max unique design features for superior performance and maintenance free operation.

FMF - Fine Mesh Filter

All 1500 bar tensioner pumps incorporate a high precision machined intensifier that is very sensitive to oil contamination. Typically these pumps have a internal filter positioned on the outlet of tank to the entry point of the intensifier. There is a limit to how fine this filter can be to avoid too much back pressure. The internal **Electro Max** filter is 35 microns.



The **Electro Max** incorporates a **second fine mesh 10 micron filter** that connects direct to tank **WITHOUT** going through the intensifier to keep it clean.

Before a tensioning operation starts a user can simply connect hoses and tools from the pressure outlet of the pump to the **FMF - Fine Mesh Filter** connection. This flushes through all tools and hoses and removes all fine contamination and ensures super clean oil. This protects the intensifier and gives long term protection to the intensifier and all pump internal components.



High Quality Components

Only the original and best components are used. The intensifier is a miniBOOSTER HC7, With over 25 years operating experience to give peace of mind that reliability is ensured, the HC7 gives excellent flow rate and perfect pressure ratios for tensioner operation.



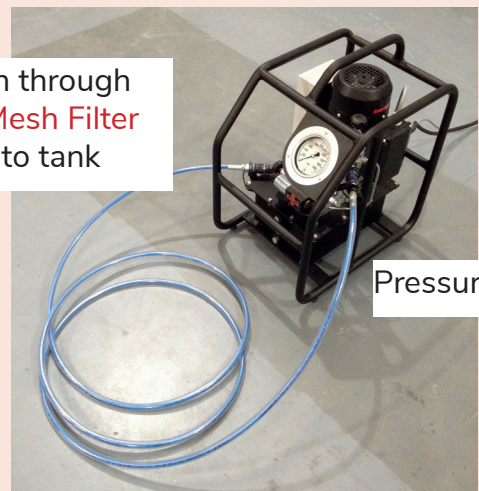
Quiet Operation

High quality induction motor gives quiet pump operation to reduce operator stress. Suitable for factory environments.

<70 dBa



Return through
Fine Mesh Filter
direct to tank



Pressure Out



ADVANCED BOLTING SOLUTIONS PVT. LTD.

HO: "ABS House", Plot No. W-116 (A),
T.T.C. Industrial Area, MIDC Khairane,
Navi Mumbai - 400 710.

Tel: +91 22 3526 4444
E-mail: sales@absgroup.in
Web: www.absgroup.in

electro mobile **Portable Electric Pump**



TensionPro Electro Mobile electric powered hydraulic pumps are portable pump units suitable for all types of high pressure operation.

The pump is robust and optimised to work with high reliability but packaged in its own neat case. Compact and lightweight but with enough power to be suitable for most tensioning applications.

The pumps are fully self contained with full pendant control. They incorporate calibrated gauges and are fitted with a safety pressure release valve and a pressure setting valve for precise control.

- CE marked
- 1.5 L reservoir with sight glass
- 1500 and 2500 bar options
- Dual scale psi/bar 100mm gauge
- Single scale MPa gauge option
- Fitted with Quick Connector outlet
- Wheeled flight case
- Retractable handle
- <70 dBA quiet operation
- Safety pressure release valve
- Pressure setting valve
- Full pendant control
- Optional FCU filter cleaning unit
- Available from stock for quick delivery

Extra Mobile! For tensioning on the move.....



The pump is built in a sturdy flight case with a retractable handle. Suitable for transportation, and for remote operations.

Part Number	Max Pressure		Electric Supply		Dry Weight	Motor Power	Size
	bar	psi	Voltage	Frequency	kg	W	l x w x h mm
PEMO-1500-01-230	1500	21,750	220-240	50/60	30	0.55/0.66	247 x 347 x 546
PEMO-1500-01-120	1500	21,750	100-120	50/60	30	0.55/0.66	247 x 347 x 546
PEMO-2500-01-230	2500	36,250	220-240	50/60	30	0.55/0.66	247 x 347 x 546
PEMO-2500-01-120	2500	36,250	100-120	50/60	30	0.55/0.66	247 x 347 x 546