

## HEAVY EQUIPMENT MAINTENANCE SOLUTIONS

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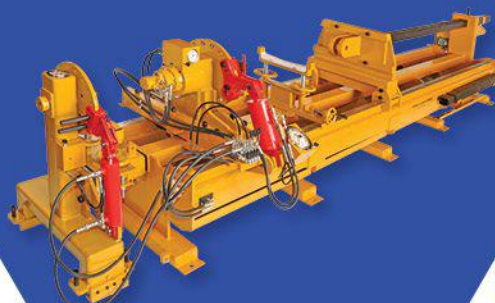
www.hemsltd.com



## Keep your earthmoving machinery **MOVING**

HEMS Ltd is a specialist company for supplying the latest equipment for the servicing and maintenance of heavy machinery used in construction, agriculture, marine, oil and gas and mining industry worldwide.

HEMS are **committed to innovation** and always put the operator's **health and safety** at the centre of every design. Our vision is to have the correct service solution in every workshop worldwide. Our aim, purpose and desire; **keep the heavy equipment industry moving!**



**Heavy Equipment Maintenance Solutions (HEMS) Ltd.**

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# MASTER PIN PUSHER

HEMS portable track presses or 'Master Pin Pusher' series HEPP, make it possible to disassemble and reassemble chain sections, driving wheels, pulleys, rollers, gears, bearings and shafts all in the field or workshop. HEMS offer various size portable press options from 30 to 300ton depending on the make/model of the tracks and applications. HEMS offers a special range of Master Pin Pusher packages designed for numerous OEMs. For consultation and further information please contact [sales@hemsltd.com](mailto:sales@hemsltd.com).



## ADVANTAGES:

- Safe and effective removal/ installation of Track Pins, Master Pins, Bushings and Master Bushings
- Reduction in labour hours
- Cost effective
- Eliminates old dangerous methods





# HEPP-30T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm <sup>2</sup> )	Approx. Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-30 M	30	200	650	45	Hand pump	3 Sets to cover 19.3mm up to 36.2 mm in diameter	19.3	36.2	90	170
HEPP-30 E	30	200	650	45	Electric pump	3 Sets to cover 19.3mm up to 36.2 mm in diameter	19.3	36.2	90	170

# HEPP-50T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm <sup>2</sup> )	Approx. Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-50 M	50	250	650	83.5	Hand pump	4 Sets to cover 19.3mm up to 36.4 mm in diameter	19.3	36.4	133	178
HEPP-50 E	50	250	650	83.5	Electric pump (dual control pump 2 in 1)	4 Sets to cover 19.3mm up to 36.4 mm in diameter	19.3	36.4	133	178

# HEPP-65T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details	
							Min.dia. (mm)	Max. dia. (mm)
HEPP 65T/E	65	60	650	95	Electric pump (dual control pump 2 in 1)	6 Sets to cover 30.1mm up to 52.3mm in diameter	30.1	52.3
HEPP 65T/M	65	60	650	95	Hand pump	6 Sets to cover 30.1mm up to 52.3mm in diameter	30.1	52.3

# HEPP-100T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-100 M	100	350	650	205	Hand pump	10 Sets to cover 19.3mm up to 60.2 mm in diameter	19.3	60.2	160	320
HEPP-100 E	100	350	650	205	Electric pump (dual control pump 2 in 1)	10 Sets to cover 19.3mm up to 60.2 mm in diameter	19.3	60.2	160	320

# HEPP-150T

## MANUAL/ELECTRIC

**AVAILABLE IN 2 FRAME DESIGNS!**

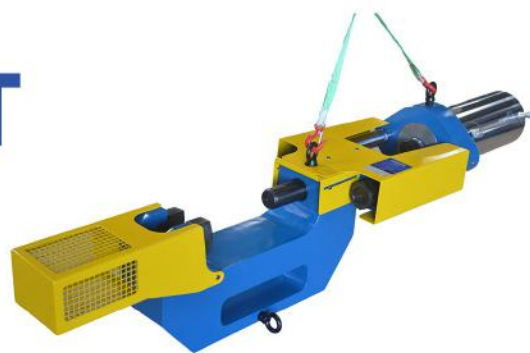


Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-150 M	150	350	650	375	Hand pump	12 Sets to cover 19.3mm up to 60.2 mm in diameter	22	70	311	365
HEPP-150 E	150	350	650	375	Electric pump (dual control pump 2 in 1)	12 Sets to cover 19.3mm up to 60.2 mm in diameter	22	70	311	365



# HEPP-200T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-200 M	200	350	650	630	Hand pump	15 Sets to cover 19.3mm up to 76.20 mm in diameter	19.3	76.2	311	415
HEPP-200 E	200	350	650	630	Electric pump (dual control pump 2 in 1)	15 Sets to cover 19.3mm up to 76.20 mm in diameter	19.3	76.2	311	415

# HEPP-230T

## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-230 M	230	350	650	680	Hand pump	12 Sets to cover up to 85.00 mm in diameter	22	85	311	415
HEPP-230 E	230	350	650	680	Electric pump (dual control pump 2 in 1)	12 Sets to cover up to 85.00 mm in diameter	22	85	311	415

# HEPP-300T

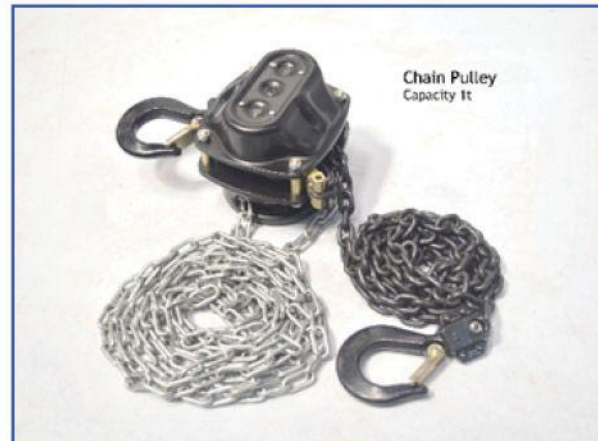
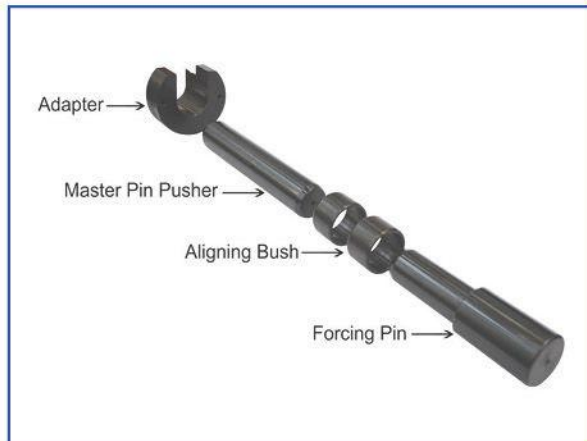
## MANUAL/ELECTRIC



Model Number	Capacity (ton)	Stroke (mm)	Working Pressure (kg/cm2)	Approx Weight (kg)	Operation	Universal Tooling Set (Included in the package)	Pin Details			
							Min.dia. (mm)	Max. dia. (mm)	Min.Length (mm)	Max.Length (mm)
HEPP-300 M	300	600	700	1420	Hand pump	15 Sets to cover up to 85.00 mm in diameter	22	85	290	500
HEPP-300 E	300	600	700	1420	Electric pump (dual control pump 2 in 1)	16 Sets to cover up to 85.00 mm in diameter	22	85	290	500

# ADDITIONAL ATTACHMENTS (INCLUDED)

Below items are included in our master pin pusher packages  
(excluding the 30ton and the 65ton press)





# CYLINDER REPAIR KIT

The PCRB-4000 is a lightweight kit.  
It is NOT designed to be a heavy-duty stationary  
Cylinder Repair Bench.

HEMS Cylinder Repair Kit is an affordable alternative  
to Disassembly benches available in the market.  
The work station accommodates all required  
tooling and fixtures. This unit is built with hydraulic  
hand operated valve mechanism with hydraulic  
power pack. This whole unit can be placed in a  
small box (75" X 60" X 50").

For cylinders up to 2000mm extended length, our  
PCRB can accommodate for barrel diameter of up  
to 200mm/8". For cylinders up to 3000mm extended  
length, our PCRB is only safe for barrel diameter of  
up to 150mm/6". Maximum loading capacity is 1 ton.

## PCRB (Collapsed)



## PCRB-4000



PCRB-4000	
Torque Capacity	43000 lbs/ft
Single or Double Acting torquer	Double Acting
Maximum Spec of Mounted Cylinder	
2000mm (open)	3000mm (open)
200mmØ	150mmØ
Max Loading Capacity	1000 Kg
Max. Floor Space Required	2.8 sq.M
Power Required	3HP
Nut Runner Torque	187.7 lb/ft
Nut Runner Spanner Wrench	14-100 RPM
Built-in Spanner	Yes
Access Required	Front & Rear
Torquer Stroke Speed	200m
Rod Extration Installation Speed	350mm/s
Maximum Rotational Torque	250Nm
Maximum Rod Extension Force (kN)	226kN
Hydraulic System Pressure	300 bar
Hydraulic Nut Buster Capacity	2 ton
Hydraulic Fluid Reservoir	40L
Colour	HEMS Colours
Electrical System	All voltages 50/60hz
This bench conforms with CE Standards	



## Main Frame consists of:

- ✓ Nut buster stand
- ✓ Vertical stands x 3
- ✓ Sliding beams x 6
- ✓ Horizontal leg support x 3
- ✓ Oil tray
- ✓ Pull-Push Cylinder
- ✓ Electric Power pack with 2HP motor
- ✓ Hoses x 6



## Attachments (included):

- ✓ 10 sets of Sprockets covering 36mm - 80mm
- ✓ Socket drive system
- ✓ Eye grab cone system (for head and stand)
- ✓ Spanner mounting plates (90 & 95mm sizes)
- ✓ Face spanner for glands 6mm - 12mm (4 sets)
- ✓ Pin spanner jaw (6 & 8mm sizes)
- ✓ Adjustable V-Block
- ✓ Face spanner stand (2 sets)
- ✓ Universal wrench
- ✓ Clevis lock
- ✓ Clevis support



## Nut Buster Features:

- ✓ Base swivel for both direction
- ✓ 2-handle control valve
- ✓ Hydraulic motor with 400 lb-ft

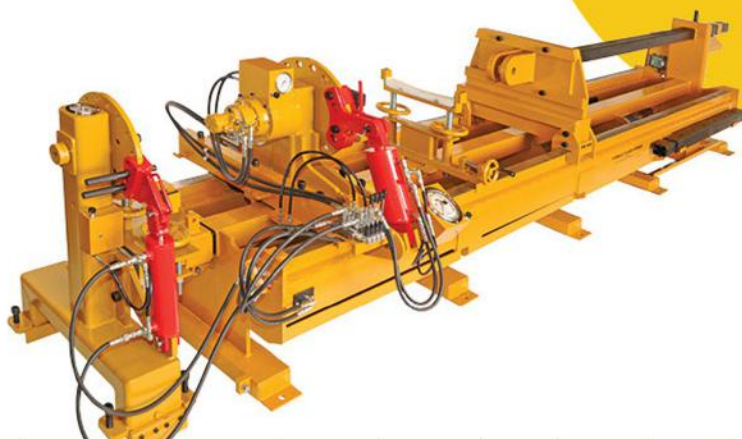


# CYLINDER REPAIR BENCH

HEMS/TUXCO offers the most comprehensive range of hydraulic cylinder repair stands available in the market today. All HEMS repair stands come complete with the accessories required to begin repairing cylinders immediately. Aided with a trained technician, the largest of cylinders can be fully disassembled, repaired and reassembled in under an hour.

## HEMS Hydraulic Cylinder Repair Features

- Versatility
- Centreline Mounting
- One Man Operation
- Built in Universal Spanner Wrench
- Built in Power
- T-Slot Securing System
- Quick Return on Investment
- Universal High Torque Wrench
- Years of maintenance - Free
- Adjustable support stands
- Easy Installation
- Easy to read Torque Gauges



Tuxco Model	Torque Capacity lb. ft. (kg.m)	Single/double acting toquer	Max. capacity cylinder length (m)	Max. capacity cylinder diameter (mm)	Max req. floor space	Power required	Horse power	Nut runner torque	Nut runner speed width	Built-in spanner	Access required	Torque stroke speed	Rod extraction Installation Speed	Pendent control	Extraction force (kN)
HCS-25-LS	25,000 (3457.5)	Single	22 ft (6.7 m)	16 in. (406.4 mm)	23' x 3' with 9' of air space on one end	Shop Air 115/230V 60hz/1 ph	N/A	N/A	N/A	Yes	Front rear	10" stroke 29 sec./ft.	48" stroke 7.6sec./ft.	No	8,300lbs (36.9)
HCS-2520	25,000 (3457.5)	Single	26ft (7.9)	22in. (558.8)	30' x 3' with 10' of air space on one end	Shop Air	N/A	N/A	N/A	Yes	Front rear	10" stroke 29 sec./ft.	14" stroke 33sec./ft.	No	9,900lbs (44.1)
HCS-30	30,000 (4149)	Double	22 ft. (6.7 m)	16 in. (406.4 mm)	26' x 3' with 9' of air space on one end	All Voltage 50/60Hz	5HP	5,000 lb.ft.	8RPM	Yes	Front	10" stroke 14sec./ft.	48" stroke 5.2sec./ft.	Yes	14,000lbs (62.3)
HCS-40	40,000 (5532)	Double	26ft. (7.9)	22in. (558.8)	33' x 3' with 9' of air space on one end	All Voltage 50/60Hz	5HP	5,000 lb.ft.	8RPM	Yes	Front	10" stroke 13.5 sec./ft.	48" stroke 5.2sec./ft.	Yes	14,000lbs (62.3)
HCS-60	60,000 (8298)	Two double	24ft. (7.3)	20/30in. (508/762)	32' x 5' with 11' of air space on one end	All Voltage 50/60Hz	7.5 HP	5,000 lb.ft.	8RPM	Yes	Front	6/10" stroke 10/14 sec.ft.	48" stroke 4.0 sec.ft.	Yes	14,700lbs (65.4)
HCS-60-L	60,000 (8298)	Two double	34ft. (10.4)	20/30in. (508/762)	43' x 5' with 12' of air space on one end	All Voltage 50/60Hz	7.5 HP	5,000 lb.ft.	8RPM	Yes	Front	6/10" stroke 10/14 sec.ft.	48" stroke 4.0 sec.ft.	Yes	14,700lbs (65.4)



# CYLINDER TESTER

Guarantee perfection before reinstalling hydraulic cylinders with HEMS/Tuxco Cylinder Tester. Having the certainty that there will be no rod or piston seal leaks and that the cylinder will work properly means greater profitability, satisfied customers and long term loyalty.

The high volume, high pressure hydraulic system and precise controls and gauges of the HCT-3000 Hydraulic Cylinder Tester provide a high speed testing capability. With 3,000 PSI testing capacity, all cylinder repairs can be guaranteed not to fail when reinstalled to the field. A low cost insurance policy, that proves to be a valuable addition to any hydraulic repair facility.



HEMS/Tuxco Model	HCT-3000	HCT-5000
Maximum testing pressure	3000psi (207 bar)	5000 PSI (345 Bar)
Horsepower	7 1/2 HP	15 HP / 11 kW
Hydraulic Pump Capacity	20 GPM (76 LPM)	8.3 GPM (32 LPM) at 50 HZ
Power required	ALL VOLTAGE 50/60HZ/3 Ph	ALL VOLTAGE 50/60HZ/3 Ph
Reservoir capacity	60 Gallons (227 Litres)	60 Gallons (227 Liters)
Features	High pressure hoses with quick disconnects	High pressure hoses with quick disconnects
	Hose storage rack	Hose storage rack
	Liquid filled test guages	Liquid filled test guages
	Quick disconnect adaptors	Quick disconnect adaptors
	Shop air adapter for oil removal after testing	Shop air adapter for oil removal after testing
	Low friction caster wheels	Low friction caster wheels

# BARREL WASHER

Dirt and honing debris are every hydraulic systems' worst enemies. HEMS's CBW-300 Cylinder Washer guarantees that cylinders will be contaminant free when they are reassembled and reinstalled into the field.

The CBW-300 uses rotating pressure spray nozzles and rotating brushes to make repaired cylinders factory clean. A powerful 12 GPM diaphragm pump that flushes out all the debris quickly. Two sets of brushes handle cylinders with from 4 to 13 1/2" bores.

Cleaning solution, dirt and debris don't go down the drain. The effluent exits the cylinder under a splash guard to keep the work area clean and dry. It then passes through 25 micron filter bags that cleans the solution, returning it to the Washer tank for reuse. A second filter stack will filter the solution down to 3 microns. Debris is trapped by the filter bags and disposed of with the shop's dry waste. It's a system designed for maximum productivity and to help avoid OSHA and EPA violations.





# ENGINE STAND



HEMS supply specialised engine rotating stand packages including all necessary adaptor plates, for all engine and transmission makes and models that are currently available on the market.

A significant feature of using a HEMS engine or transmission stand is in the increased ability of manoeuvrability. This saves considerable time when it comes to repair – up to 50% in labour hours – by eliminating non-productive handling procedures, this also reduces workplace injury. With a noted reduction in labour hours and costs, using HEMS engine and transmission stands equates to increased profitability.

Complying with all current working practices and safety regulations, HEMS engine and transmission stands cover capacities from 759kgs up to 20,000kgs and are suitable for new build, repair and refurbishment operations.

## HM-ES 1050



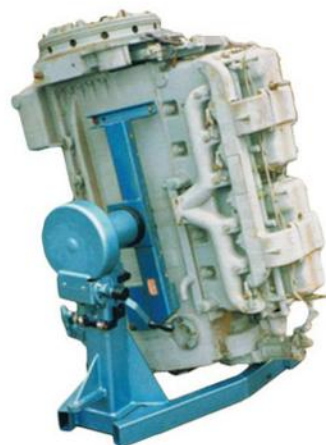
HEMS smallest range of engine stand suitable for smaller applications with the capacity of 760Kg

Capacity	760kg
Spindle Height	Floor mounted: 876mm   Mobile: 889mm
Dimensions (H*W*L):	Floor mounted: 1050, 460, 870mm
Dimensions (H*W*L):	Mobile: 1050, 710, 1170mm
Weight (net)	Floor mounted: 102kg   Mobile: 110kg

## HM-ES 1076

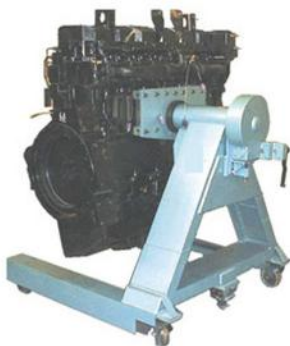
This stand is one of the popular models and it is suitable for many engine make / models i.e. MTU 460C, Cummins ISX15, M11, Perkins 403F,1103, Komatsu 6D125, 140, CAT and many more engines available in the market place

Capacity	1520kg
Spindle Height	Floor mounted: 914mm   Mobile: 940mm
Dimensions (H*W*L):	Floor mounted: 1076, 460, 920mm
Dimensions (H*W*L):	Mobile: 1076, 890, 1220mm
Weight (net)	Floor mounted: 190kg   Mobile: 210kg





# HM-ES 2000



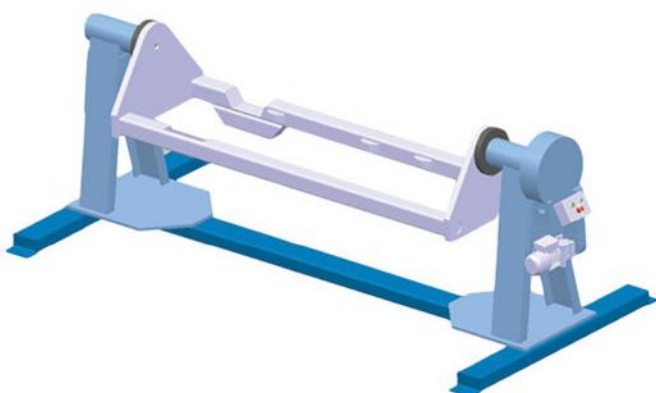
This model is within our heavy duty range with the capacity of 3000 kg. Suitable for many engines i.e. Perkins 2206, 2506, CAT C9, C15, 3406, Cummins QSX15, QSK19, K19 and many more engines in the market

Capacity	3000kg (mobile)
Spindle height	1000mm (mobile)
Dimensions (H*W*L)	1150, 1372, 1372mm (mobile)
Weight (net)	350kg

# HM-ES 6000

Heavy duty stand with the capacity of 5000 kg and suitable to handle many engines in the market i.e. Cummins K38, K48, MTU 12V4000, CAT 3508, C27, C32 and many more engines

Capacity	5000kg
Dimensions (H*W*L)	3500, 1600, 1200mm
Weight	1050kgs



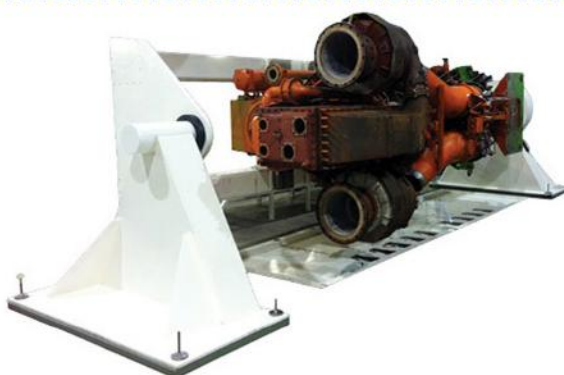
# HM-ES 7000

This model is within our heavy duty top of the range with the capacity of 7000 gm. This model has the option of motor drive for larger applications i.e. Perkins 4006, 4008, CAT 3512, 3516, Cummins QSK60, QSK50, KV50 and more engine models in the market

Capacity	7000kg
Dimensions (H*W*L)	1350, 1850, 4500mm
Weight	1825kg

# HM-EN 13-25

HEMS largest model with the capacity of 20,000 KG suitable for largest applications i.e. Cummins QSK78, QSK95 or QSK120



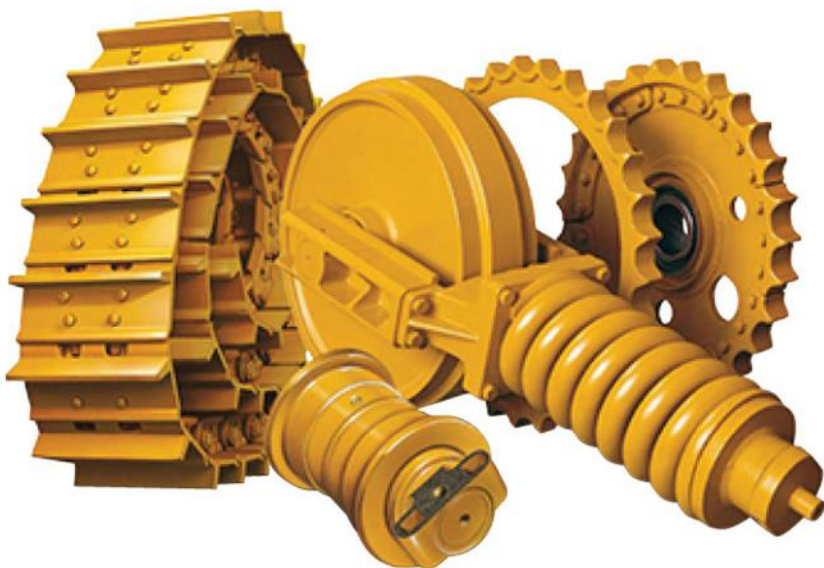
# UNDERCARRIAGE REPAIR

**Maximise use of Undercarriage with HEMS latest specialised tooling.**

**Do you have many worn Tracks laying in the corner of your workshop?**

**Did you know you could get 50% more life of your worn Tracks?**

Undercarriage of machines wear out over time due to the demands on the track link, rollers and idler in the often, harsh and challenging environment.

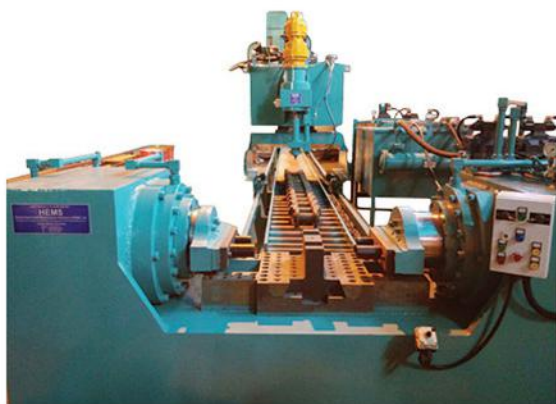


To increase the lifespan and resilience of damaged undercarriage parts such as track links, rollers and idlers etc. these can be easily re-positioned by using special welding methods with HEMS highly efficient undercarriage repair tools. Parts can be re-built with the appropriate re-building equipment that HEMS offers.



# TRACK PRESS

HEMS Hydraulic Torque Wrench series are designed for the removal and tightening of shoe bolts of most of the small, medium and large sizes of Track Chains. The wrench has two speeds, one for low speed and high torque for the initial removal or final tightening of the bolts and high speed and low torque for quick removal of the bolt or initial screwing of the bolt during tightening.



## HEM-UC/200T

Capacity (each ram)	1961kN/200T
Ram speeds rapid forward	1560mm/min
Press	228mm/min
Returns	2820mm/min
Connected load	11kW/15
HP Weight	5,100kg (approx.)

## HEM-UC 250T

Capacity (each ram)	2451kN/250t
Ram speeds rapid forward	2100mm/min
Press	276mm/min
Returns	3780mm/min
Connected load	15kW/20
HP Weight	5,300kg (approx.)

## HEM-UC 300T

Capacity (each ram)	2942kN/300t
Ram speeds rapid forward	2100 mm/min
Press	330mm/min
Returns	4140mm/min
Connected load	18.75 kW/25 HP
HP Weight	6500 kg

## HEM-UC 350T

Capacity (each ram)	3432 kN/350t
Ram speeds rapid forward	1890mm/min
Press	270mm/min
Returns	4004 mm/min
Connected load	22.5kW/30HP
HP Weight	7200kg

## HEM-UC 400T

Capacity (each ram)	3922kN/400t
Ram speeds rapid forward	2160mm/min
Press	360mm/min
Returns	3690mm/min
Connected load	30kW/40hp
HP Weight	8100kg

# TRACK WINDER

HEMS TW/L Track Chain Winder is used for winding and un-winding tracks. It is generally placed in line with the Roller Conveyor for winding the track after assembly or for spreading the track on the Roller Conveyor for disassembly of the track. It is of extremely robust design, suitable for large size track chains.



## HEM TW/L

Torque	8500 Nm
Spindle RPM	2
Floor to spindle height	1600 mm
Max weight allowed on spindle	6000 kg
Machine weight	1550 kg
<b>Machine dimensions:</b>	
Length	2600 mm
Height	1900 mm
Depth	1250 mm
Power	3.75 kW
Machine weight	1550 kg



# HYDRAULIC TORQUE WRENCH

HEMS Hydraulic Torque Wrench series are designed for the removal and tightening of shoe bolts of most of the small, medium and large sizes of Track Chains. The wrench has two speeds, one for low speed and high torque for the initial removal or final tightening of the bolts and high speed and low torque for quick removal of the bolt or initial screwing of the bolt during tightening.

HEMS also supply both options, manual and electrically driven conveyors. Please check at the time of order which options suits your requirement.



## HEM-UC/T700

Torque	7000 Nm
Wrench RPM	8-150
Power	5.6 kW
Max. chain height with shoes	350 mm
Machine weight	850 kg
Length	3100 mm (with roller conveyor)
Height	1590 mm (above roller conveyor)
Width	1060 mm

## HEM-UC/T900

Torque	9000 Nm
Wrench RPM	05-125
Power	7.5 kW
Max. chain height with shoes	375 mm
Machine weight	1250 kg
Length	3100mm (with roller conveyor)
Height	1760 mm (above roller conveyor)
Width	1240 mm

# SEAL LUBRICATOR



## HEMS SLT-40/LS

Seal Lubricator & Tester is a trolley mounted portable unit used for lubricating/ servicing track chains, rollers and idlers. It is provided with an oil dispenser and provision for vacuum test with gauges and indicators.

Only compressed air supply is required to operate the machine.

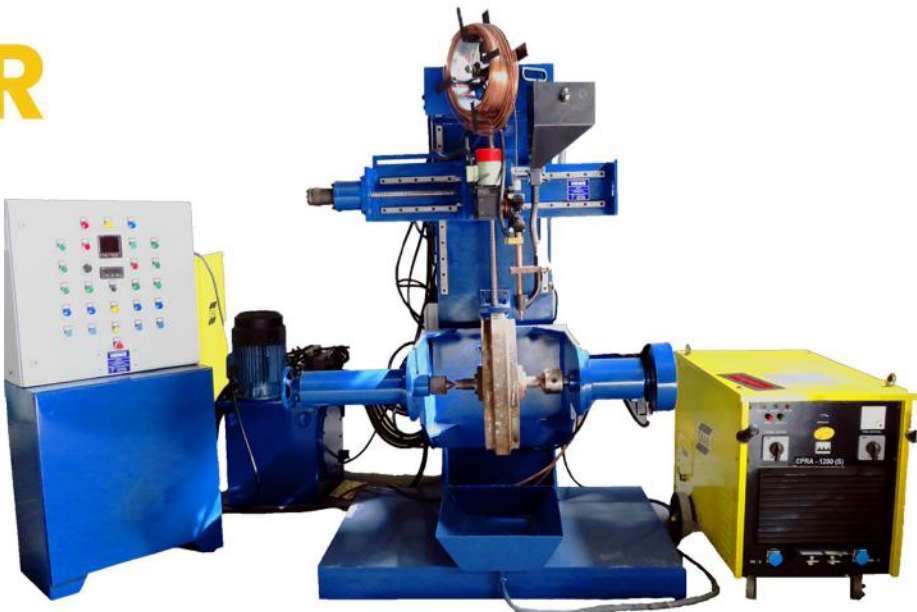
## SLT-40/LS

Type:	Lubricating and testing
Lubricant reservoir capacity	40 litre
Air supply required capacity	0.10 m3 at 4 bar
Machine weight	51 kg (dry)



# ROLLER & IDLER REBUILDER

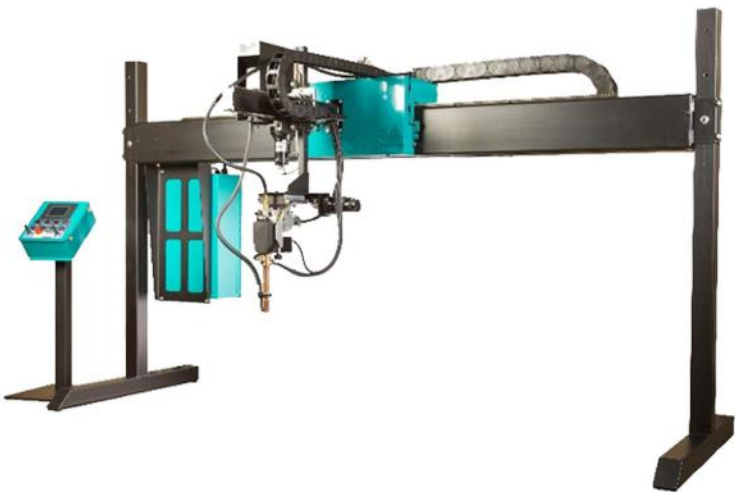
The HE-RIR 988 is an extra wide Roller & Idler Rebuilding Machine which can accommodate idlers up to 900mm diameter. If required the machine can also be equipped with two power sources along with two independent welding heads with independent wire feed units, hoppers, etc. The machine can also be supplied with Flux Recovery Unit if required.



## HE-RIR 988

Type	Double Ram Track Press
Max Roller Diameter	1250mm
Max roller weight	600kg
Wire feed speed	0.2 to 4m/min
Wire diameter	2.4mm - 5.0mm
Hopper capacity	10kg

# GROUSER REBUILDER



The machine is designed to rebuild track shoes of all models. It is of very robust and rigid construction and is designed to weld the lug/bar on to the grouser, without removing it from the track chain. HEMS Grouser Rebuilder includes cutting station, welding station left, welding station right, submerged arc welding power source, flux recovery unit, hydraulic system and electric system.

# HEMS FILTRATION UNIT

## HE-MF RANGE

HEMS HE-MF-15 series oil filtration systems are high-end technology machines popularly used for Superfine Stage Filtration (fine solid particle removal) of lubricating and hydraulic oils. FS series machines are externally attached, independently operating by-pass oil purifying machines.

- Superfine filtration of contaminant particles by absolute media filters of high dirt holding capacity
- Contamination cleanliness levels ISO 14/12 achievable
- High Beta Ratio -1000 Beta of filters: Filtration efficiency 99.998%
- Hugh filtration area
- Multi-stage filtration for faster and economical filtration
- Automatic control panel with protections



### HE-MF 15

Model	HE-MF-15
Pump/ flow	Gear type mono block pump/ 30 l/min
Max operating pressure	0-15 bar
Hoses	Flexible hoses 3m long suction and outlet hoses
Viscosity	Hydraulic & Lube Oil (up to 100 cSt)
Working temperature	0°C min up to 40°C max
Particle analyzer	Portable particle counter (to be ordered seperately)



HEMS HE-MF-20 series oil filtration and low vacuum dehydration systems are high-end technology machines popularly used to remove dissolved, emulsified and free moisture in oil. A very thin film of oil is allowed to spread evenly on a fountain like evaporation plate, under a warm and un-saturated air chamber. Moisture in oil exposed to the vacuumed chamber gets converted to vapour form and escapes from the oil filters.

- Superfine filtration of contaminant particles by absolute media filters of high dirt holding capacity
- Contaminant cleanliness level NAS 4-5 cleanliness class achievable
- High beta ratio -1000 beta for filters: filtration efficiency 99.998%
- Efficient vacuum unit for dehydration
- Ability to remove free moisture, emulsified moisture, dissolved moisture
- MCB for each equipment for higher safety
- Multi-stage filtration for faster and economical filtration

## BENEFITS OF USING HEMS OIL FILTERS

- Reduce spare parts consumption by up to 60%
- Double the lifetime between major overhauls
- Reduce the chance of unplanned repairs and maintenance
- Reduces component wear, thus extending the machines life
- Reduced fluid disposal costs
- Reduce risk of breakdowns
- Hugely increase productive use of machinery



### HE-MF-20

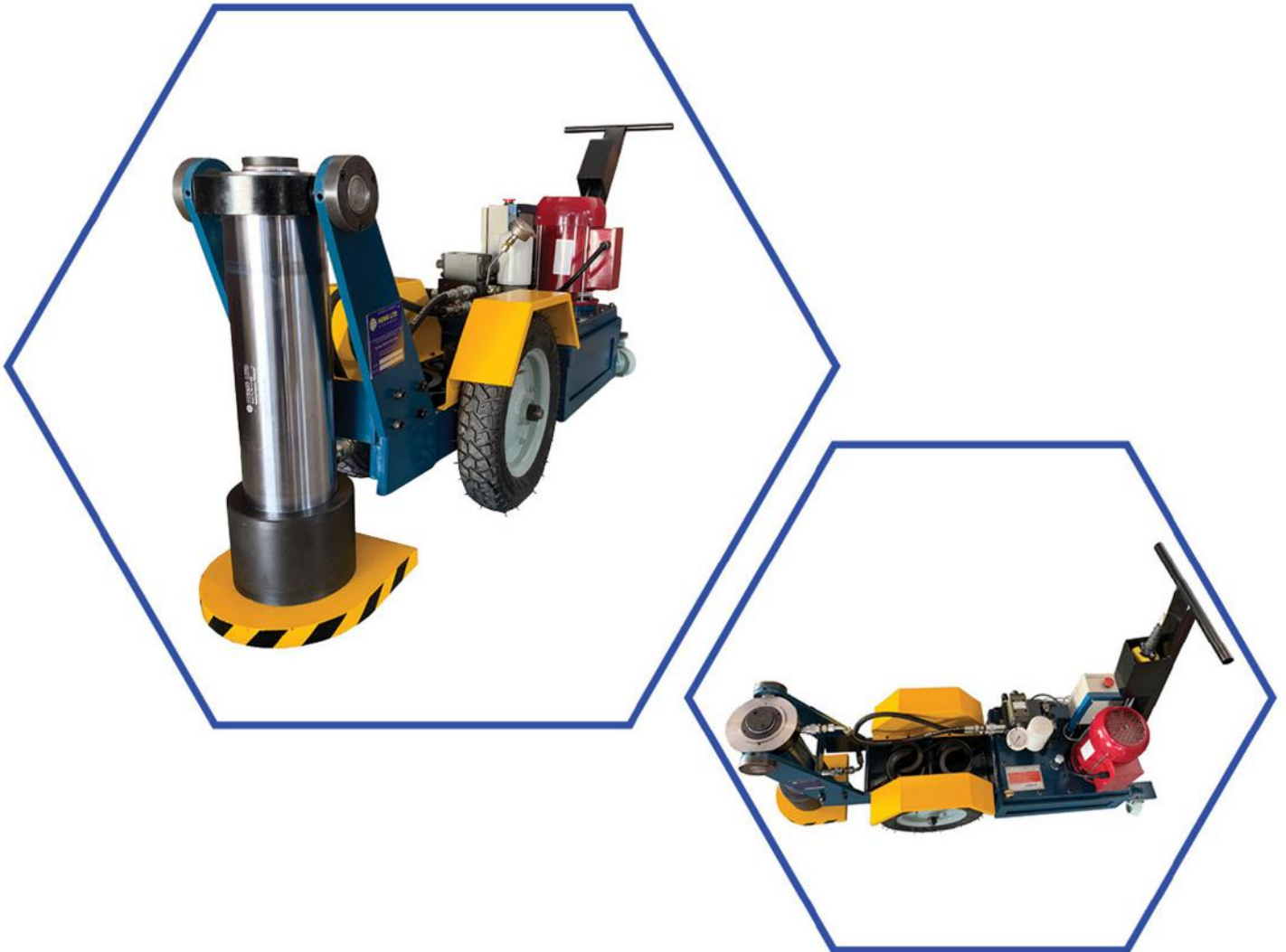
Model	HE-MF-20
Pump/ flow	Gear pump/ 40 l/min
Max operating pressure	10 bar
Inlet filter	149 micron (55 mesh type) washable filter
Pre-heating of oil	6kW indirect filter- type -low watt density heater
Filtration capacity	NAS 4-5 cleanliness class
Particle analyzer	Portable particle counter (to be ordered separately)

# LIFTING JACK

HEMS Portable Heavy-Duty Lifting Jack is a compact, portable lifting solution that can vertically bare up to 100tons!

The combination of welded, steel, heavy duty chassis with it's 3-inch ground clearance make it ideal for use in more inhospitable environments. Having only 3 controls (up, hold and down), it is incredibly simple to use while remaining the most effective heavy-duty jack on the market.

HEMS Lifting Jack comes with the standard electrical pump and has the option for pneumatic/ air operated pump. There are also additional accessories to increase stroke capacity, giving it flexibility across many machines/vehicles.







## Features / Applications

- Compact & Portable, Steel Alloy Construction
- Extension pieces / Bridges provided for additional reach
- Electric / Pneumatic Motor – Optional
- Manual / Remote Pendant Control valve – Optional
- Suitable for lifting & maintenance of heavy earth moving Equipment, Dumpers,
- heavy structures & Locomotives

Model	Capacity	Stroke (mm)	Min height (mm)	Saddle diameter	Motor	Weight (kg)	Max height using optional extension		
							Stacking pads and 'U' rings	Bridge	
								190mm	490mm
HE-LJ60A350	60	350	560	87	Air	177.3	1145	710	350
HE-LJ60A680	60	680	890	87	Air	272.7	1475	1040	680
HE-LJ60E350	60	350	560	87	Electric	177.3	1145	710	350
HE-LJ60E680	60	680	890	87	Electric	272.7	1475	1040	680
HE-LJ100A400	100	400	600	106	Air	231.7	1007	750	400
HE-LJ100A680	100	680	900	106	Air	272.7	1307	1050	680
HE-LJ100E400	100	400	600	106	Electric	231.8	1007	750	400
HE-LJ100E680	100	680	900	106	Electric	272.7	1307	1050	680

# PIN PULLER



Single acting return hydraulic jacks are available in both alloy steel and aluminium and have 50 and 100mm stroke which pin, and bush can be replaced in one or multiple strokes. Jacks are centre hole type and are places on C-sleeves (one over the other) through which centre rod passes and nuts are tightened at the ends. Tie rods and nuts are machined from an alloy steel material, hardened, and tempered to increase strength and toughness.

## Safety Features:

- The spring balancer fitted on the trolley allows for the simple hands free operation.
- Saving in time and labour.
- Adopted by both repair shops and OEM's.
- Suitable for onsite repairs.
- Suits most of the construction machineries and brands.
- Safe compared to traditional methods.
- Aluminium alloy for light weight and easy handling.



**This trolley is an optional accessory that makes for precise and accurate operation of the pin puller**



Model	Stroke (mm)	Closed height (mm)	Outer diameter (mm)	Bore diameter (mm)	Ram diameter (mm)	Centre hole (mm)	Effective area (sq cm)
HE PP 30/50	100	245/255	115/150	95/135	80/110	33/42	42.6/78.5
HE PP 100	100	295	215	180	150	77	141.40
HE PP 150	100	325	245	200	150	80	235.6
HE PP 200	100	350	290	220	160	80	235.6

# TYRE PRESS

**HEMS Workshop Tyre Press is suitable for a comprehensive range of large, industrial tyres.** The Heavy Duty Tyre Press is suited to busy workshops & tyre service depots. Our press is capable of handling all sized tyres, from small pallet trucks to the larger lifting trucks & industrial equipment. It is the ideal tooling for any tyre workshop wishing to broaden the horizons of their offering. Our Tyre Press' capacity ranges from 100tons to 300tons and extra large aperture dimensions ensure the unit to be used to change almost any solid tyre. Extra tooling sets are available as an optional accessory.



PARAMETERS	300T FITMENT PRESS	200T FITMENT PRESS	100T FITMENT PRESS
Capacity	300 T	200 T	100 T
Construction	Fabricated H frame	Fabricated H frame	Fabricated H frame
Cylinder	Ø485 mm x ø370 mm x 980 mm	Ø400 mm x ø295 mm x 900 mm	Ø330 mm x ø210 mm x 900 mm
No. of cylinders	1	1	1
Stroke	600 mm	500 mm	500 mm
Day light gap	2000 mm	1500 mm	1500 mm
Over all width	2650 mm	2250 mm	2000 mm
Table size	2000 X 2000 mm	1500 X 1500 mm	1000 X 1000 mm
Moving plate	Ø1000 mm	Ø800 mm	Ø800 mm
Motor	3 Phase, 15 HP, 415 v AC, 50 Hz	3 Phase, 10 HP, 415 v AC, 50 Hz	3 Phase, 7.5 HP, 415 v AC, 50 Hz
Load @ Max. Pr.	300 T	200 T	100 T
Safety	Safety door fencing at the front	Safety door fencing at the front	Safety door fencing at the front
Part No.	HTP-300	HTP-200	HTP-100



## Professional Tooling Kit Available





# VERTICAL H FRAME PRESS

HEMS Vertical Press is a workshop type hydraulic press with capacity ranging from 15-500tons depending on the application. The Vertical Press was designed for removal and fitment of bearing, sprockets, gears, straightening of shafts and general maintenance.



Model No.	Description	Press Pressure in bar	Hand Pump Stages	HP Model	Pressure In bar		Flow/stroke	
					1st Stage	2nd Stage	1st Stage	2nd Stage
HE-VP 10-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/5	30	550	2.8	49
HE-VP 15-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/5	30	550	2.8	49
HEVP 20-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/5	30	550	2.8	49
HE-VP 25-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/5	30	550	2.8	49
HEVP 30-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/5	30	550	2.8	49
HE-VP 50-150	Work shop Press With Hand Pump	700	Two Stage	HP5012/7	30	550	2.8	49
HE-VP 60-200	Work shop Press With Hand Pump	700	Two Stage	HP5012/7	30	550	2.8	49
HE-VP 75-200	Work shop Press With Hand Pump	700	Two Stage	HP5012/7	30	550	2.8	49
HE-VP 100-200	Work shop Press With Hand Pump	700	Two Stage	HP5012/13	30	550	2.8	49
HE-VP 150-300	Work shop Press With Hand Pump	700	Two Stage	HP5012/13	30	550	2.8	49
HE-VP 200-300	Work shop Press With Hand Pump	700	Two Stage	HP5012/20	30	550	2.8	49
HE-VP 300-300	Work shop Press With Hand Pump	700	Two Stage	HP5012/20	30	550	2.8	49

## Work shop type press along with Power Pack

Model No.	Description	Pressure in bar	Radial Pump Stages	flow rate in cc	Motor / HP	Phase
HE-VP 10-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 15-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 20-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 25-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 30-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 50-150	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 60-200	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 75-200	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 100-200	Work shop Press With Power pack	700	Single	1	2 HP	Single / Three
HE-VP 150-300	Work shop Press With Power pack	700	Single	1.5	3 HP	Single / Three
HE-VP 200-300	Work shop Press With Power pack	700	Single	1.5	3 HP	Single / Three
HE-VP 300-300	Work shop Press With Power pack	700	Single	2.6	5 HP	Single / Three





# KEEPING EARTHMOVING MACHINES MOVING





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**HEMS LTD**

Don't just repair it, **"HEMS it"!**

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