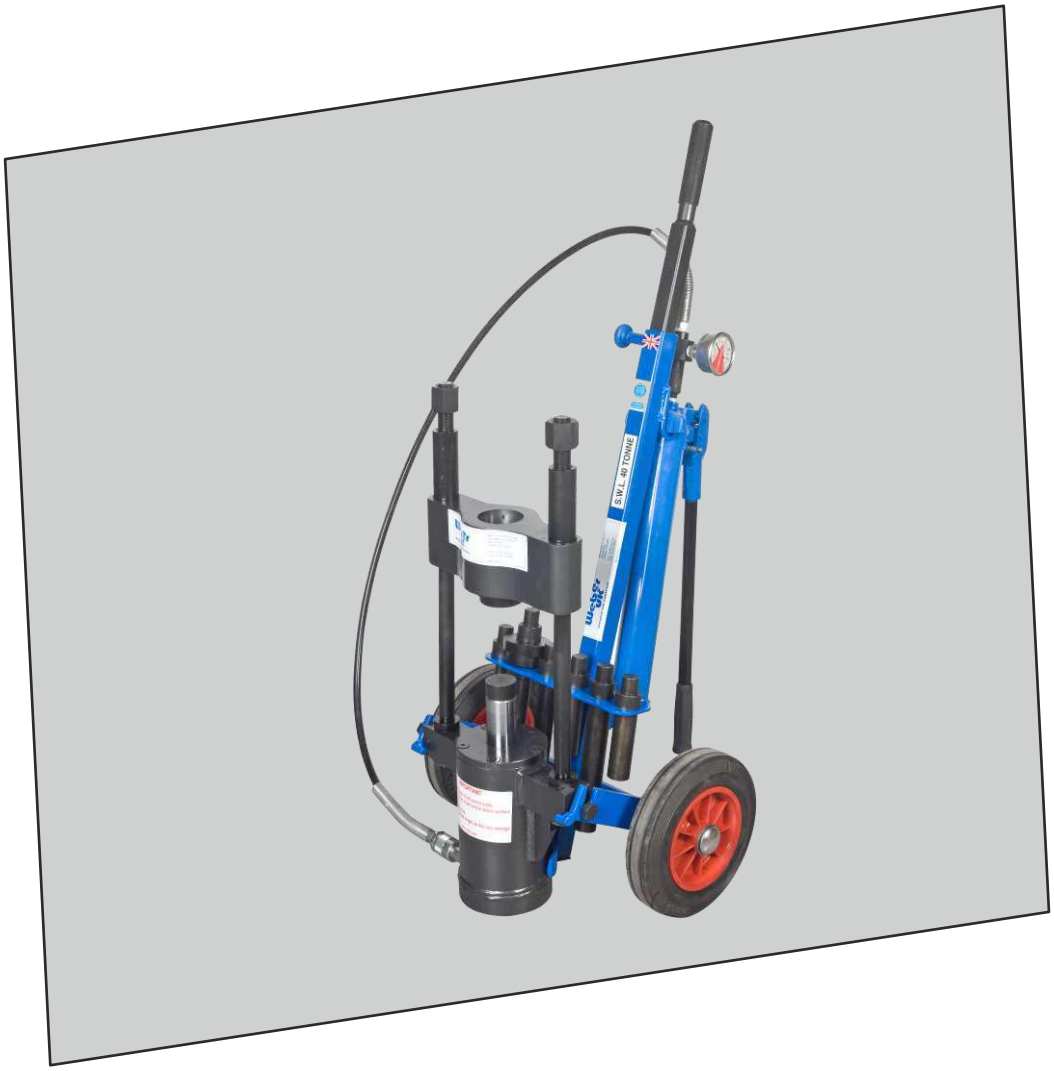
WFP40I

40,000 Kg

User's guide

Heavy Duty King Pin Press



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KING PIN PRESS MODELS

WFP40 Single Stage Manual Hand Pump
WFP40-DA Two Stage Manual Hand Pump
WFP40-AP Pneumatic Operated Hydraulic Pump

Supplied with:

6 x various size mandrels,
2 x adjustment spacers,
1 x cylinder anvil,
1 x top frame anvil and
1 x top frame bush

OPTIONAL EQUIPMENT

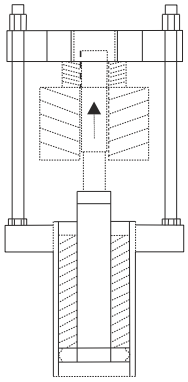
WPTT65 Transport Trolley:- for storage and easy manoeuvring of King Pin Press

WWTT100 Transport Trolley:- for storage, transport and easy assistance in positioning King Pin Press Cylinder within work place application. While located on trolley King Pin Press Hydraulic Cylinder can be rotated 180° allowing it to operate from either the top or bottom of stub axle.

BASIC DIRECTIONS OF USE

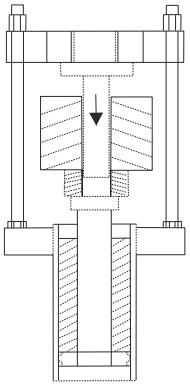
(See page 2 for further instructions)

Using King Pin Press in most cases can alleviate the necessity to remove the front axle therefore saving considerable time when removing and fitting kingpins. Producing a high pressure force of Forty Tonnes the press makes light work of removing and fitting most King Pins.



(FIG. A)

Fig. A shows a pin being removed using an extension mandrel fitted directly onto the King Pin Press hydraulic cylinder piston rod and pushing the pin through the frame top.



(FIG. B)

Fig B shows a king pin being pushed into a stub axle housing by fitting an anvil to frame top section and the hydraulic cylinder piston.

Special application tools and anvils can be manufactured on request.

The King Pin Press can also be used as a small workshop press.

ALWAYS READ THE INSTRUCTIONS BEFORE USING THIS EQUIPMENT:

Familiarise yourself with this products application, as well as the products limitations and potential hazards before operating this equipment:

DO NOT ADD OIL TO THE UNIT, IT IS PRE-FILLED AT THE FACTORY WITH ISO 32 GRADE OIL. We recommend that the oil is changed every 12 months. **DO NOT MIX** different hydraulic blends or grades. When unpacking the equipment, check carefully and report any loss or damage immediately. Take special care as items are heavy and you may need assistance when lifting. Take care to avoid trapping any body parts when moving, assembling or operating this machinery. Always inspect equipment prior to use and **DO NOT USE** if damaged or worn, report any immediately to supervisor. **IF IN DOUBT DO NOT USE**. Equipment must be maintained in serviceable use at all times. Only use genuine spare parts and only allow the unit to be serviced by trained technicians.

DO NOT exceed the maximum safe working load of the equipment and do not modify or alter the equipment in any way, this can be dangerous and will invalidate the warranty.

DO NOT use this equipment for any other purpose than it is intended for and never allow any unauthorised person to operate this equipment or to enter the work area.

DO NOT USE this equipment under the influence of drugs, alcohol, intoxicating medication or if fatigued. **DO NOT** wear loose/ill-fitting clothing, ties, watches, rings or jewellery.

OPERATION:

For removing kingpins through the axle top: Unscrew 2 main nuts and remove top frame housing and spacers. Select the correct size and length extension mandrel to remove kingpin and fit into the cylinder piston rod ensuring that the mandrel collar sits squarely on the face of the piston rod. It is sometimes preferable to start the king pin removal with a short mandrel then finish removal of king pin with a longer mandrel.
Position King Pin Press cylinder at the bottom of the axle then check the kingpin size and locate reducing collar if necessary in frame top housing and fix with grub screw. Locate frame top housing onto main frame studs; if necessary use the spacer tubes to take up any thread length. Secure frame top housing in position with the 2 main frame nuts ensuring the full thread of the nuts is used and both nuts are positioned evenly on shafts.
Ensure that the mandrel located in the centre of the kingpin and operate the hydraulic pump using only the minimum pressure at this time. Check that the press cylinder and anvil are correctly located, square and inline. If any of the components are out of line release the pressure and re-align the assembly before again applying pressure again.
When all components are aligned correctly apply full pressure to remove the kingpin.

TO REMOVE A KINGPIN THROUGH THE AXLE BOTTOM:

Use the same procedure as above for removing kingpin from top but locate the cylinder on top of the axle instead of at the bottom.

TO FIT A NEW KINGPIN:

To fit a new kingpin firstly fix the solid anvil into the frame top housing and secure with grub screw. Fix a solid anvil or short mandrel into the hydraulic cylinder piston rod. Place new kingpin in position ready for assembly. Loosen tie rod nuts to allow sufficient gap for the Kingpin Press to go over axle assembly and new kingpin. Ensure that the complete assembly is in line and squarely apply pressure to push the new kingpin into the axle assembly. It may be necessary to use a long extension mandrel shaft to fit a new kingpin. Check that the kingpin is fitted correctly and then remove the Kingpin Press hydraulic cylinder.

With optional Transport Trolley WWTT100 all these operation are made much safer and easier as it takes away a lot of the manual handling process.

PUMP

When connecting the hydraulic fluid supply line to the hydraulic cylinder, care must be taken to ensure that the hose and fittings are not damaged or faulty. Special care must be taken with the quick release coupling that must be clean and not contaminated or damaged. If any fault or damage is found **DO NOT USE THE PUMP OR KING PIN PRESS**. On all models release the pump breather valve, before use.

WFP40SA Single Stage Hand Pump

Connect the hydraulic hose to the hydraulic cylinder with the quick release coupling, operate the pump a few strokes to clear the air from the system. Close the pump pressure release valve and continue to operate the pump. Ensure that the cylinder piston and extension are in line, if any part of the assembly is out of line correct the misalignment before applying full pressure. Continue pumping until the kingpin has been removed or the full length of the hydraulic cylinder piston rod or the extension mandrel has been reached. (**DO NOT FOR ANY REASON EXTEND THE HYDRAULIC PISTON ROD PAST THE RED MARKER LINE**- if the pump is continually operated past the red line this can cause serious damage to the cylinder or the pump.)

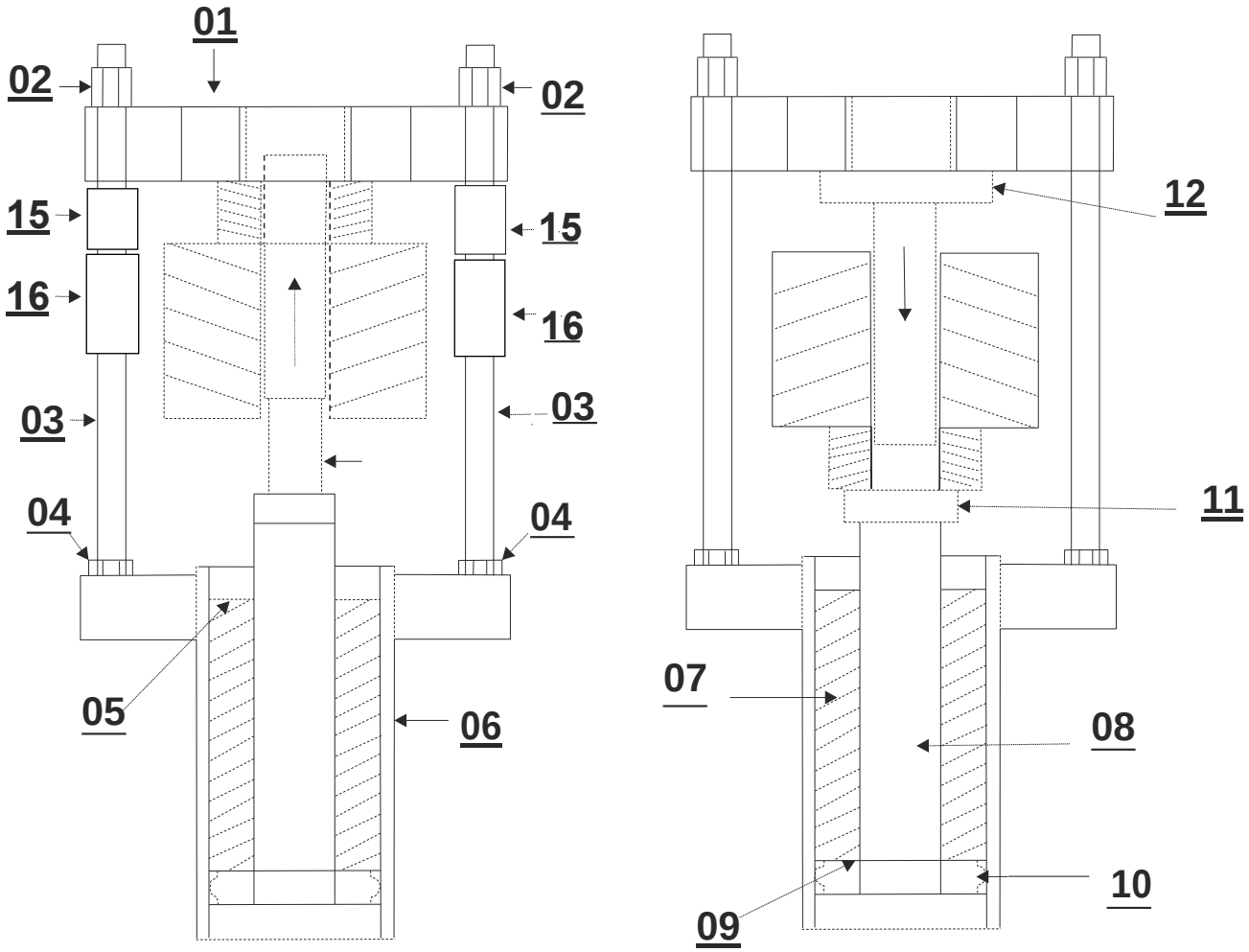
WFP40DA Two Stage Hand Pump

The two stage hydraulic pump can be used on the 40 Tonne or the 75 Tonne Kingpin Presses, the pump will give a faster delivery of hydraulic oil and will give up to a maximum of 10,000 P-S-I pressure.

WFP40AM Air Hydraulic Operated Pump

The pump can be used for the 40 tonne or the 75 tonne Kingpin Press. Follow the instructions as before for setting up the hydraulic cylinder. Connect a suitable air supply to the hydraulic air pump press down on the pump foot pedal and the pump motor will activate. Keep your foot on the motor foot pedal until the kingpin has been removed or the full length of the cylinder piston or mandrel has been reached. To release the pressure from the hydraulic cylinder press down on the rear of the pump foot pedal.

NEVER FOR ANY REASON PUMP THE HYDRAULIC CYLINDER PISTON ROD PAST THE RED MARKER LINE



PARTS LIST

Pos:	Component:	Qty:	
01	Frame Top Housing	1	
02	Main Frame Nut	2	} Set 14
03	Main Frame Stud	2	
04	Stud Lock Nut	2	
05	Cylinder Insert	1	
06	Cylinder	1	
07	Cylinder Spring	1	
08	Piston Rod	1	
09	Piston	1	
10	Cylinder Seal Set*	1	
11	Piston Anvil	1	
12	Main Frame Anvil	1	
13	Mandrels (Note Shown)	Set	
14	Stud & Nut Set	Set	
15	50mm Spacer	2 pcs set	
16	100mm Spacer	2 pcs set	

*** Seals are sold as complete sets only**

EC Declaration of Conformity for Machinery

Directive 2006/42/EC

Hydraulic King Pin Press - Model: WFP40I

are in conformity with the provisions of the Machinery Directive (Directive 2006/42/EC) as amended 29th December 2009 and with national implementing legislation.

We hereby certify that the equipment covered by this test certificate has been tested to An overload without showing any defect. The safety valve has been set at maximum working capacity and is recommended for the safe working load stated above. Provided the safe working practice as prescribed on the instructions and test/declaration of conformity is adhered to.

Signed…… Date……01/01/21……

Subject to changes and misprints. E & OE

UK Declaration of Conformity for Machinery

Supply Machinery (Safety) Regulations 2008

Hydraulic King Pin Press - Model: WFP40I

are in conformity with the provisions of the Supply of Machinery (Safety) Regulations 2008 as amended 01st January 2021 and with national implementing legislation.

We hereby certify that the equipment covered by this test certificate has been tested to An overload without showing any defect. The safety valve has been set at maximum working capacity and is recommended for the safe working load stated above. Provided the safe working practice as prescribed on the instructions and test/declaration of conformity is adhered to.

Signed……. Date……01/01/2021……

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