

# SHHP20 FLOOR STANDING HYDRAULIC PRESS

OWNER'S MANUAL

20 TON MAX CAPACITY



FOR YOUR SAFETY  
PLEASE READ THESE INSTRUCTIONS CAREFULLY  
AND RETAIN THEM FOR FUTURE USE.



## SPECIFICATION

MAX CAPACITY	20 TON
STROKE	185MM
WORK RANGE	0-910MM
WEIGHT	113kg

## SAFETY INSTRUCTIONS

Please read these instructions carefully. Note the safety Instructions and warnings. Use the product correctly and with care for the purpose of which it is intended. Failure to do so may cause damage to property and/or serious personal Injury. Please keep this instruction manual safe for future use.

We've done all we can to ensure this press offers the utmost in safety but you have to do your part. No amount of warning can take the place of good judgement, so make sure it's the first thing you bring to any job. Beyond that here are some tips:

Steel and other materials can shatter. Always use protective eye-wear, a full-face impact safety shield and heavy duty work gloves that comply with the appropriate ansi code.

If you detect anything that may indicate imminent structural failure stop using the press immediately and inspect it Thoroughly.

Bolt the press to the floor if it is to be used on bulky or Unstable items.

Do not use the press to compress springs or any other item that could disengage and cause a potential Hazard.

Use a qualified person to maintain the press in good Condition. Keep it clean for safe and optimum performance.

## SAFETY INSTRUCTIONS

Do not exceed the rated capacity. Never apply excessive force to a work piece and always use the pressure gauge to accurately determine the applied load.

Use this press for the purpose for which it is intended. Do not use it for any purpose it is not designed to perform.

Keep children and unauthorised persons away from the work area. Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair. Keep proper balance and footing, do not over reach, wear non-skid footwear.

Only use this press on a surface that is stable, level, dry, not slippery and capable of sustaining the load. Keep the surface clean, tidy and free from unrelated materials and ensure that there is adequate lighting.

Inspect the press before each use. Do not use if bent, broken, cracked, leaking or otherwise damaged or if it has been subjected to a shock load.

Check to ensure that all applicable bolts and nuts are firmly tightened.

Ensure the work piece is centre-loaded and secure.

Keep hands and feet away from the bed area at all times.

Do not operate the press when you are tired or under the influence of alcohol, drugs or any intoxicating medication.

Do not allow untrained persons to operate the press.

Do not make any modifications to the press.

Do not use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil to the press. Only high quality hydraulic oil should be used.

## SAFETY INSTRUCTIONS

If the press needs repairing and/or there are any parts that need to be replaced have it repaired by authorised sgs technicians.

## INFORMATION

This press is suitable for straightening and punch pressing, for dies pressing and punch press processing (such as straightening of crankshafts and connecting links) and for press fitting such as pressing in and out of shaft pins, gears and bushes.

## SYSTEM AIR PURGE

1. Open the release valve by turning it anti-clockwise.
2. Pump several full strokes to eliminate any air from the system.
3. Close the release valve

## BEFORE FIRST USE

Before first use of this press purge any air from the hydraulic system.

Check all parts and conditions – if there is any broken part stop using the press and contact sgs engineering immediately.

## OPERATING INSTRUCTIONS

Place the heel block on the press bed frame, then insert the work piece onto the heel block.

Close the release valve by turning it clockwise until it is firmly closed.

Pump the handle until the serrated saddle nears the work piece.

Align the work piece and ram to ensure centre-loading.

Pump the handle to apply load onto the work piece.

When work is complete, stop pumping the handle, slowly and carefully remove the load from the work piece by turning the release valve anti-clockwise in small increments.

Once the ram has fully retracted remove the work piece from the bed frame.

## MAINTENANCE

Clean the outside of the press with a dry, clean and soft cloth and periodically lubricate the joints and all moving parts with a light oil.

When not in use store the press in a dry location with the ram and piston fully retracted.

If press efficiency drops purge air from the hydraulic system as above.

Check the hydraulic oil; remove the oil filler nut on the top of the reservoir and if the oil level is not adequate fill with high quality hydraulic oil as necessary. Then replace the oil filler nut and purge air from the system.

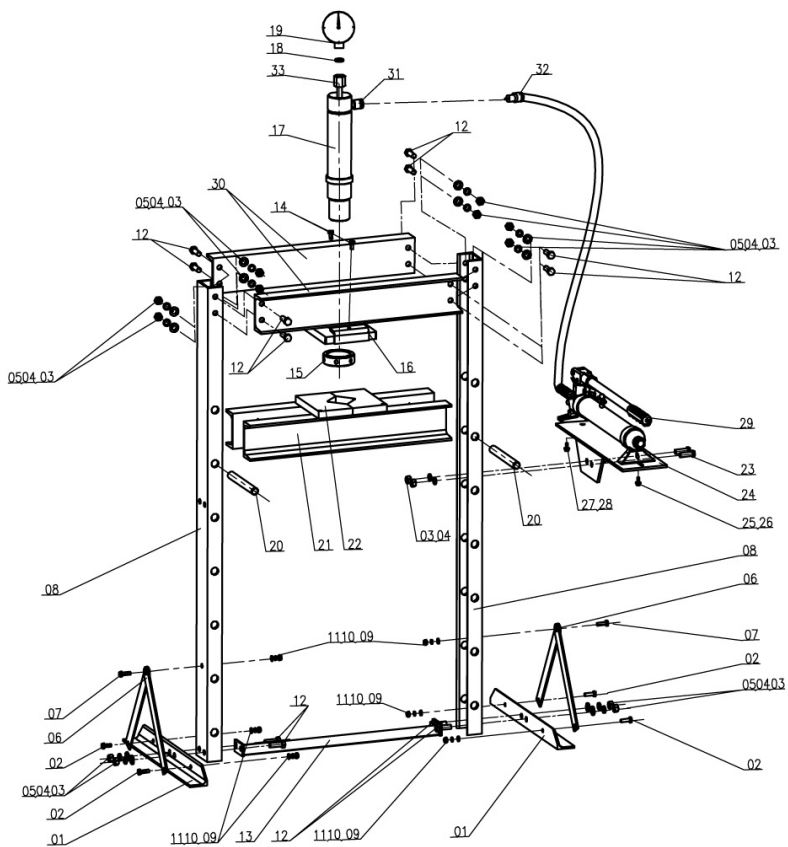
## ASSEMBLY

**Use the exploded diagram as your guide to assembly. Lay all parts and assemblies out in front of you before beginning. The following procedure is recommended:**

1. Attach the base section (01) to left post and lower cross member (13) using bolts (12), washers (05), lock washers (04) and nuts (03) then attach another to the right post and the lower cross member.
2. Fix one end of the knighthood (06) to the base angle iron (01) and another end to the post (08) using bolts (12), washers (05), lock washers (04) and nuts (03).  
Put the frame in an upright position, attach one upper cross beam (30) to the left and right posts (08) using bolts (12), washers (03), lock washers (04) and nuts (05).
3. Put another upper crossbeam into position and insert the under plate (16) to the two upper cross beams at the same time then secure this cross beam to the posts using bolts (12), washers (03), lock washers (04) and nuts (05).
4. Screw the upper round nut onto the ram (17), insert the ram into the hole in the under plate (16) then screw the under round nut (15) onto the ram and insert bed frame pin (20) into the holes in the posts, then insert the joined press bed frame (21) into the press frame and onto the bed frame pin.
5. Attach the setting plate (24) to the right post using bolts (23), lock washers (04) and nuts (03) then secure the pump assembly using the screws (25) and washers (26), then insert the handle into the handle bracket.
6. Connect the hydraulic hose fitting (32) to the connection nut (31) and assemble the pressure gauge (19) to the pressure gauge connection nut (33) which is on top of the ram (17).
7. Tighten all bolts and screws.

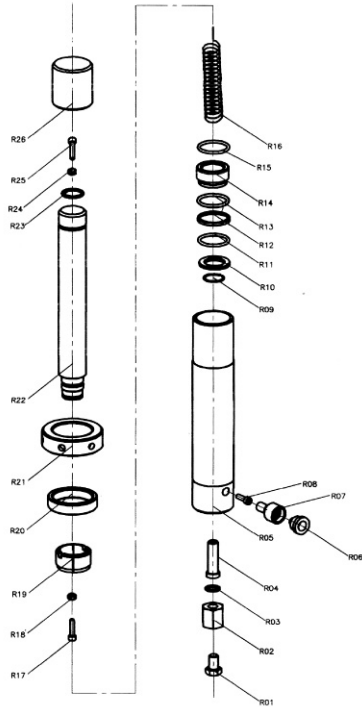
ITEM	DESCRIPTION	QTY
1	BASE SUPPORTS	2
2	BOLT M10X25	4
3	NUTS M12	14
4	SPRING WASHER 12	14
5	WASHER 12	12
6	KNIGHTHEAD	4
7	BOLT M10X30	2
8	POST	2
9	NUTS M10	6
10	SPRING WASHER 10	6
11	WASHER 10	6
12	BOLT M8X16	12
13	SPREADER	1
14	BOLT M8X16	2
15	UNDER ROUND NUT	1
16	JACK FIRED SEAT	1
17	PRESS CYLINDER	1

ITEM	DESCRIPTION	QTY
18	NYLON RING	1
19	PRESSURE GAUGE	1
20	SUPPORT PINS	2
21	BED FLAT	1
22	HEEL BLOCK	2
23	BOLT M12X30	2
24	FIXED PLATE	1
25	BOLT M6X16	1
26	WASHER 6	1
27	BOLT M8X16	1
28	WASHER 8	1
29	PRESS PUMP	1
30	UPPER CROSSBEAM	2
31	CONNECTION NUT	1
32	HOSE FITTING	1
33	GAUGE CONNECTION NUT	1



ITEM	DESCRIPTION	QTY
R01	BOLT M20X25	1
R02	GAUGE CONNECTION NUT	1
R03	RECTANGLE RING	1
R04	GAUGE COUPLER	1
R05	CYLINDER	1
R06	DUST CAP	1
R07	COUPLER & NUT	1
R08	BOLT M5X20	1
R09	STEEL WIRE RING	1
R10	RING	1
R11	O-RING 40X5.3	1
R12	SEALING RING	1
R13	O-RING	1

ITEM	DESCRIPTION	QTY
R14	GUIDE RING	1
R15	O-RING 46.5X1.5	1
R16	SPRING	1
R17	BOLT M8X40	1
R18	NUT M6	1
R19	NUT	1
R20	UPPER ROUND NUT	1
R21	UPPER ROUND NUT	1
R22	RAM	1
R23	STEEL WIRE RING	1
R24	RECTANGE RING	1
R25	BOLT M6X12	1
R26	TOE	1





## CE MARK

SGS ENGINEERING IS COMMITTED TO DESIGNING, MANUFACTURING, AND MARKETING PRODUCTS THAT MEET OR EXCEED THE NEEDS OF THE CUSTOMERS WE SERVE. SGS ENGINEERING CAN SUPPLY A LETTER OF INCORPORATION OR A DECLARATION OF CONFORMITY AND CE MARKING FOR PRODUCTS THAT CONFORM WITH EUROPEAN COMMUNITY DIRECTIVES.



## ISO 9001

SGS ENGINEERING'S COMMITMENT TO QUALITY IS EVIDENT IN EVERYTHING WE DO, FROM RAW MATERIAL RECEIPT TO HOW WE SUPPORT OUR CUSTOMERS YEARS AFTER THEY PURCHASE OUR PRODUCTS. SGS ENGINEERING IS REGISTERED TO ISO 9001: 2000 INTERNATIONAL QUALITY STANDARD. ISO 9001: 2000 REQUIRES COMPLIANCE WITH STANDARDS FOR MANAGEMENT, ADMINISTRATION, PRODUCT DEVELOPMENT, MANUFACTURING AND CONTINUAL IMPROVEMENT.



OUR REGISTRATION VERIFIES THAT SGS ENGINEERING HAS ADOPTED AND MAINTAINS DOCUMENTATION FOR PROCESSES RANGING FROM SUPPLIERS TO CUSTOMERS, INSPECTION, HANDLING, AND TRAINING. ISO 9001 ALSO REQUIRES PERIODIC INTERNAL AND EXTERNAL AUDITS TO ENSURE ALL ASPECTS OF WORK AFFECTING QUALITY CONTROL ARE MONITORED. THIS ALWAYS HAS BEEN, AND WILL CONTINUE TO BE, OUR PHILOSOPHY. THAT'S OUR GUARANTEE TO YOU.

FOR MORE PRODUCTS PLEASE BROWSE OUR WEBSITE: [WWW.SGS-ENGINEERING.COM](http://WWW.SGS-ENGINEERING.COM)

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- WORKSHOP AND INDUSTRIAL HYDRAULIC PRESSES
- HYDRAULIC CYLINDERS, PUMPS, TOOLS & EQUIPMENT



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## EC Declaration of Conformity

This is an important document and should be retained

MANUFACTURER'S NAME: SGS Engineering (UK) Ltd

TYPE OF EQUIPMENT: Hydraulic Press

PART NUMBER: SHHP20

APPLICATION OF EC COUNCIL DIRECTIVES / STANDARD:

2006/42/EC Machinery Directive

EN ISO 12100-1:2003 +A1:2009

EN ISO 12100-2:2003 + A1:2009

I, the undersigned, hereby declare that the equipment specified above conforms to the above European Communities Directive(s) and Standard(s).

PLACE: Derby, UK

DATE: 24th JUNE 2017

A handwritten signature in black ink, appearing to read 'Robert Wyatt', written over a horizontal line.

(Signature)  
Robert Wyatt  
Company Secretary