THE ENVIRONMENT

Always dispose of unwanted tools, accessories and packaging materials in an environmentally friendly manner.

DECLARATION OF CONFORMITY

We hereby certify that the KENNEDY HBP020 AIR HYDRAULIC BENCH PRESS

(ORDER CODE: KEN-503-9480K)

complies with all the relevant provisions of the

Machinery Directive 2006/42/EC

Standards Applied:

EN ISO 12100-1:2003+A1:2009

Signed:
Date: 1st May 2023
Name: Toni Johnson
Position: Compliance Director

KENNEDY TOOLS
Cromwell Group (Holdings) Limited
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England, LE18 2FS
Contact Us: contactus@cromwell.co.uk
Country of Origin: China

UK CA CE

QUALITY GUARANTEE & WARRANTY

KENNEDY TOOLS carry a one year manufacturer's warranty.

KENNEDY TOOLS are designed & manufactured to the highest standards & specifications.
Assuring the quality and performance required by all sectors of industry.

KENNEDY TOOLS are fully guaranteed against faulty materials & workmanship.
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).

Please retain supplier invoice as proof of purchase.

KENNEDY®

QUALITY INDUSTRIAL TOOLING

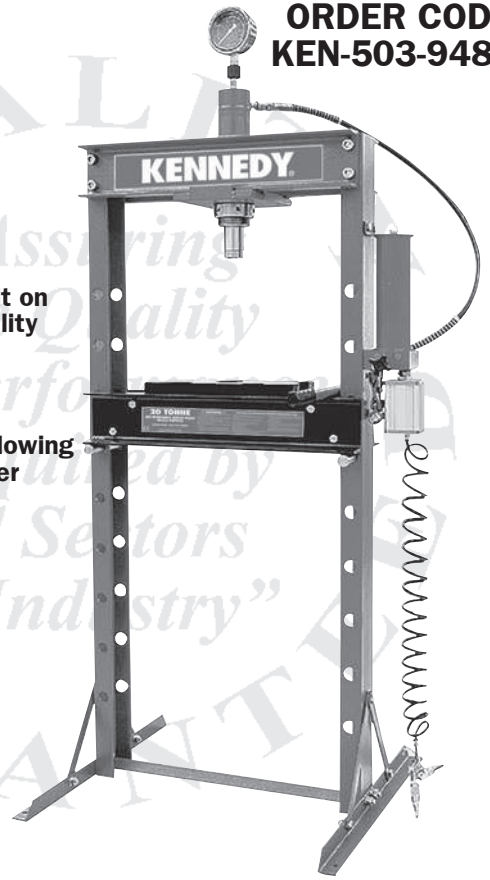
AIR HYDRAULIC BENCH PRESS

MODEL:
HBP020

ORDER CODE:
KEN-503-9480K

20 TONNE

- **Ideal for pressing, bending and extruding**
- **Welded steel frames with bolt on legs and end braces for stability**
- **Height adjustable work bed providing flexibility and convenience**
- **Detachable pump and ram allowing hydraulics to be used for other purposes when the press is not being used**
- **Hydraulic gauge is included**
- **Built for tough daily use in industrial and automotive workshops**



WARNING: THE SAFETY INFORMATION GIVEN INSIDE MUST BE READ AND UNDERSTOOD BY ANY PERSON USING, INSTALLING, REPAIRING OR MAINTAINING THIS PRODUCT.

OPERATOR'S MANUAL

Please retain this information for future reference.

KENNEDY **thoroughly recommends reading these instructions before using the Air Hydraulic Bench Press, even if you have used one before. Reading these instructions carefully and understanding them fully will enable you to perform tasks correctly and will prevent injury to yourself or someone else as well as damage to the work piece and equipment.**

SAFETY GUIDELINES

- Always use approved eye and face protection. If necessary also wear protective gloves.
- Avoid kinks in the hose and inspect it each time before use.
- Before each use, ensure that all nuts, bolts and hydraulic couplings are correctly fitted and are tight.
- Before use, bleed the hand pump to release any trapped air.
- Do not modify in any way.
- Do not operate the press if any parts are missing, damaged or faulty.
- Do not operate the press when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- Keep children and unauthorised people away from the work area.
- Keep the work area clean and tidy.
- Make sure the supporting pins are securely and evenly positioned.
- Position the press in a well lit and suitable location.

- Do not drop any heavy objects onto the hose.
- Do not exceed the press rated load capacity.
- Do not force the press.
- Do not overreach.
- Do not stand on the press.
- Keep the press away from heat.
- Refill with hydraulic fluid only, making sure no dirt gets into the hydraulic system. Do not use brake fluid.
- Secure the work properly. Make sure that work that will flex, will not suddenly break causing damage to the work piece or injury to the user.
- Stay alert at all times.
- Wear proper clothing.

- Do not allow the press to get wet or remain in a damp environment.
- Replace the dust caps back onto the couplings after use.
- Store the arbor plate in a safe location when not in use.
- When not in use, release the pressure from the pump.

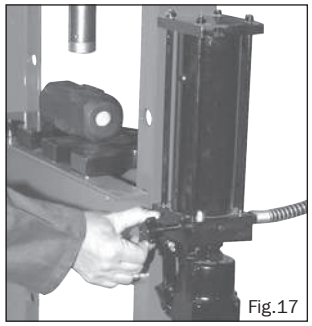
TROUBLE SHOOTING



To prevent personal injury, release the pump pressure and disconnect the hose from the pump before making any repairs. Repairs must be performed in a dirt-free environment by a qualified person who is familiar with this type of equipment.

FAULT	POSSIBLE CAUSE	SOLUTION
Pump loses pressure.	1.System components leaking.	1. Repair or replace as necessary.
Pump not delivering oil.	1. Low oil level in reservoir. 2. Seals are worn.	1. Check oil level. 2. Repair seals or replace pump body.
Pump does not reach rated capacity.	1. Low oil level in reservoir. 2. System components leaking. 3. Fluid leaking past inlet or outlet check valves.	1. Check oil level. 2. Repair or replace as necessary. 3. Repair inlet or outlet check valves, or replace high pressure piston seal.
Pump handle has 'spongy' feel.	1. Air trapped in system. 2. Too much oil in reservoir.	1. Refer to 'bleeding air from the system' on page 6. 2. Check oil level.
Ram piston will not extend.	1. Loose couplers. 2. Low fluid level in pump reservoir. 3. Ram seals leaking.	1. Tighten couplers. 2. Fill and bleed the system. 3. Replace worn seals. Look for excessive contamination or wear.
Ram system extends only partially.	1. Low oil level in pump reservoir. 2. The load exceeds the capacity of the system.	1. Fill and bleed the system. 2. Use correct equipment.
Ram piston extends slower than normal.	1. Loose couplers. 2. Restricted hydraulic line or fitting. 3. Pump not working correctly. 4. Ram seals leaking.	1. Tighten couplers. 2. Clean and replace if damaged. 3. Repair or replace as necessary. 4. Replace worn seals. Look for excessive contamination or wear.
Ram does not hold pressure.	1. Leaky connection. 2. Ram seals leaking. 3. Pump or valve not working correctly.	1. Clean, re-seal with thread sealant and tighten connection. 2. Replace worn seals. Look for excessive contamination or wear. Replace contaminated oil. 3. Repair or replace as necessary.
Ram leaks hydraulic oil.	1. Worn or damaged seals. 2. Loose connection.	1. Replace worn seals. Look for excessive contamination or wear. Replace contaminated oil. 2. Clean, re-seal with thread sealant, and tighten connection.
Ram will not retract or retracts slower than normal.	1. Pump release valve closed. 2. Loose couplers. 3. Blocked hydraulic lines. 4. Weak or broken retraction springs. 5. The ram is damaged internally. 6. The pump reservoir is too full.	1. Open the pump release valve. 2. Tighten the couplers. 3. Clean and flush the lines. 4. Send to a service centre for repair. 5. Send to a service centre for repair. 6. Drain the oil to the correct level.

OPERATING


Fig.17

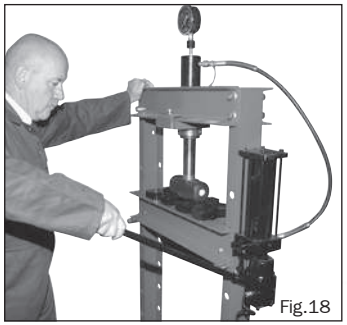

Fig.18

Fig.19

To pressurise the hydraulic hand pump, turn the release valve on the side of the pump clockwise to close the valve (Fig.17). Then pump the handle up and down (Fig.18) or if using compressed air to operate, attach the trigger to an air line and press the trigger letting air into the pump (Fig.19). The compressor must be rated at 8-9.5bar (116-137psi) and supply air at 4cfm.

To release pressure, open the valve by turning the release valve anti-clockwise.

CARE & MAINTENANCE

CHECKING & FILLING THE OIL RESERVOIR:

1. Disconnect the hydraulic hose fitting (33) from the hydraulic pump.
2. Remove the pump and place on a level surface.
3. Always follow the precautions advised by the oil manufacturer.
4. Open the pressure release valve, remove the filler plug from the cylinder and check the oil level which should be within 15mm from the top of the reservoir. If necessary, fill with hydraulic oil **ISO VG.22 or32** until the oil is within 15mm from the top of reservoir. DO NOT USE BRAKE FLUID.
5. Pump the handle 5 or 6 times to expel air.
6. Screw on the filler plug.

Avoid mixing different grades of oil. After long periods of use, the oil should be replaced with new oil.

BLEEDING THE SYSTEM:

Air can accumulate in the hydraulic system during the initial setup or after prolonged use, causing the ram to respond slowly or in an unstable manner. To remove the air, please follow these steps.

1. Place the ram at a lower level than the pump, with the piston end pointing down.
2. Extend and retract the ram several times without putting a load on the system. Air will be released into the pump reservoir.
3. With the ram fully retracted, the pump sitting level and no pressure in the hydraulic system, remove the pump's filler plug screw.
4. Pump the handle 5 or 6 times to bleed air out of the system.
5. Close the pressure release valve.
6. Replace the filler plug screw.

LUBRICATING:

Use light oil on all moving parts.

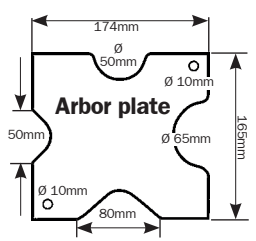
WHEN NOT IN USE:

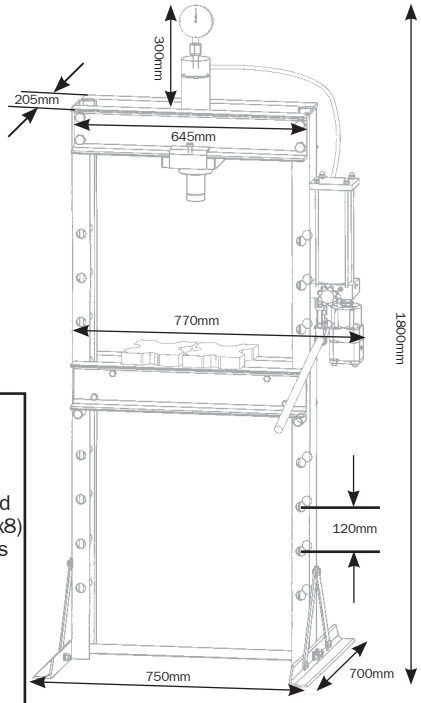
Wipe clean with a slightly oiled cloth and store in a safe place away from children. Store with the release valve open. If storing with hydraulics disconnected, make sure that threaded dust cap plugs are put on to the ends of the hose, hydraulic ram and hydraulic spreader ram, to avoid dirt from entering the system.

Images may differ from actual product

CAPACITIES

Model Number	HBP020
Order Code	KEN-503-9480K
Capacity	20 Tonne
Ram Stroke	185mm
Maximum Height of Ram to Table	910mm
Minimum Height of Ram to Table	0mm
Table Aperture	105mm
Working Table width	545mm
Overall Height	1800mm
Hydraulic Gauge Included	Yes
Weight	98.3kg

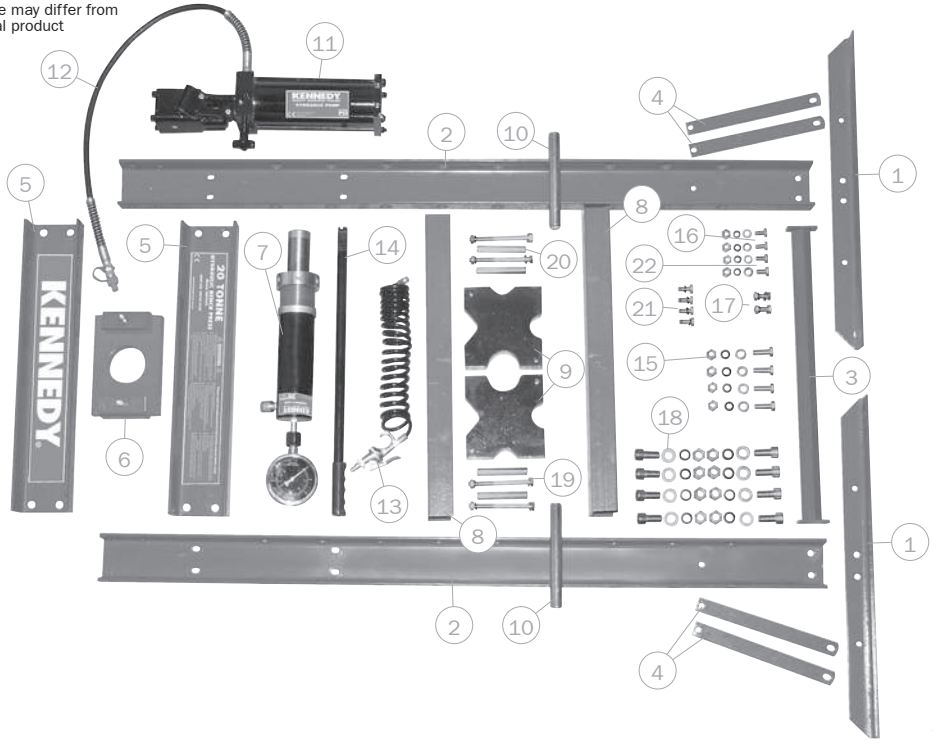




CONTENTS

1	Base angle irons (x2)
2	Posts (x2)
3	Bottom bar
4	Bracing straps (x4)
5	Upper cross beams (x2)
6	Cylinder plate
7	Ram assembly
8	Press bed frames (x2)
9	Arbor plates (x2)
10	Support pins (x2)
11	Hydraulic pressure pump*
12	Hydraulic hose fitting
13	Coiled air line and trigger
14	Handle
15	M12 x 35mm bolts, nuts and washers (x4)
16	M10 x 25mm bolts, nuts and washers (x2)
17	M10 x 30mm bolts, nuts and washers (x2)
18	M16 x 35mm socket head bolts, nuts and washers (x8)
19	M10 x 130mm bolts, nuts and washers (x4)
20	Spacing tubes (x4)
21	M10 x 20mm bolts and spring washers (x4)
22	M10 x 25mm bolts and spring washers (x2)

*Image may differ from actual product



ASSEMBLY

TOOLS NEEDED: 12 and 16mm Hex. Keys, 17 & 24mm sockets or spanners and a large 90mm 'C' spanner.

THIS EQUIPMENT WEIGHS - 98.3kg TO PREVENT INJURY IT MUST BE ASSEMBLED BY A MINIMUM OF 2 PERSONS

Using the exploded diagram on page 3 as a guide, assemble the parts loosely at first, tightening at the end of the build.

1. Attach both of the base angle irons (1) to the posts (2) and the bottom bar (3) by inserting the M12 x 35mm bolts, washers and nuts (15). See Figs.1 & 2

2. Fix bracing straps (4) to the angle iron bases using the M10 x 25mm bolts, washers and nuts (16). See Fig.2

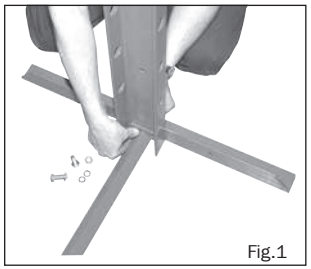
3. Fix the other end of the bracing straps (4) to the posts using M10 x 30mm bolts, washers and nuts (17). See Fig.2
The press frame will now be free standing.

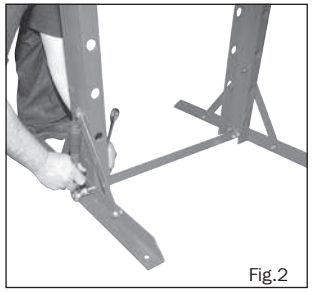
4. Attach **ONE** end of both upper cross beams (5) to the top of one of the posts using M16 x 35mm socket head bolts, washers and nuts (18). See Fig.3

5. Swing the two upper cross beams up and slide the cylinder plate (6) onto the lower flanges.
See Figs.4 & 5

6. Continue to swing to the horizontal position and attach the other end of both upper cross beams (5) to the top of the other post using the remaining M16 x 35mm socket head bolts, washers and nuts (18). See Fig.6

7. Tighten the cylinder plate onto the cross beams with the socket head cap screw as shown in Fig.7
The frame should now look as shown in Fig.8


Fig.1


Fig.2

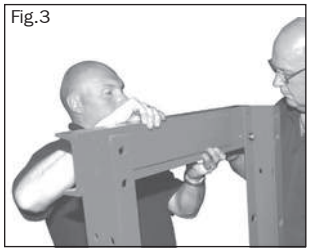
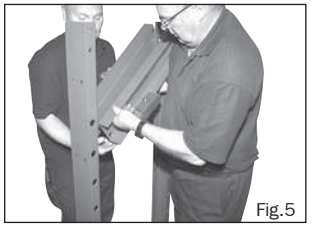
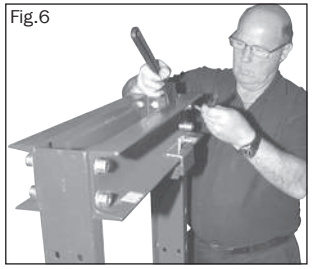

Fig.3


Fig.4


Fig.5


Fig.6

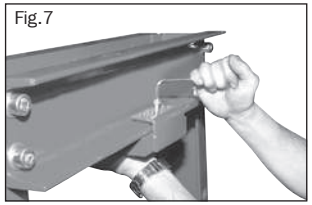

Fig.7


Fig.8

Images may differ from actual product

ASSEMBLY

8. Locate the ram assembly (7) and remove the larger - lower clamping ring nut, leaving just the smaller upper clamping ring nut in place. Now place into position in the hole in the cylinder plate.
See Fig.9

10. Screw the lower clamping ring nut onto the bottom of the ram under the cylinder plate and tighten with a 'C' spanner. See Fig.10

11. Join the two press bed frames (8) together using the four spacing tubes (20) and M10 x 130mm bolts, washers and nuts (19). See Fig.11

12. Insert the support pins (10) into holes in the posts, in positions 2 or 3 holes from the bottom.
See Fig.12

13. Place the constructed bed frame in position on the support pins.
See Figs.13 & 14

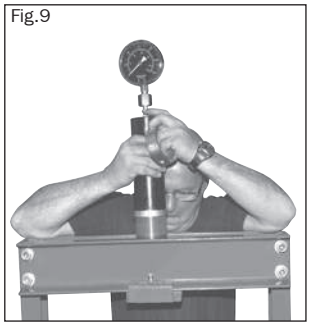
14. Place the two arbor plates (9) on top of the bed frame ready for use. Take care not to drop as they are heavy and can easily cause personal injury.

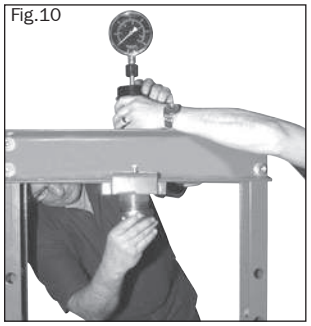
15. Attach the hydraulic pressure pump (11) to the right side post using M10 x 20mm bolts and spring washers (20).
See Fig.15

16. Connect the hydraulic hose fitting (12) to the connecting nut on the ram. See Fig.16

17. Connect the coiled air line and operating trigger (13) to the bottom of the pressure pump and locate handle (14) in the pump socket as shown in Fig.16.

18. Now everything is in place, tighten all nuts and bolts securely.


Fig.9


Fig.10

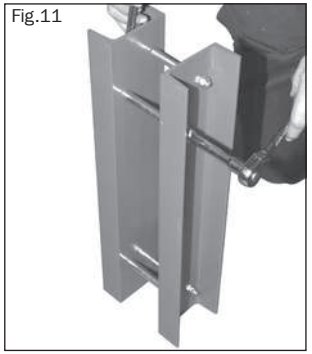
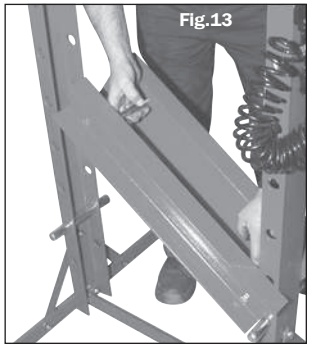
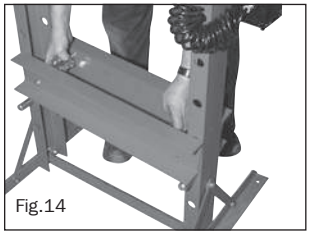
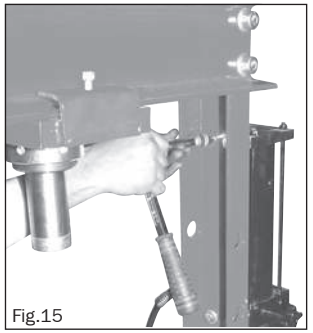

Fig.11


Fig.12


Fig.13


Fig.14


Fig.15

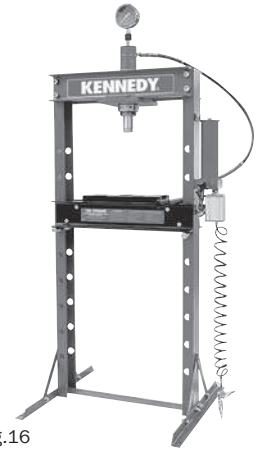


Fig.16

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