## 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 HBP030 AIR HYDRAULIC BENCH PRESS**

**(ORDER CODE: KEN-503-9490K)**

**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**
**65 Chartwell Drive, Wigston, Leicestershire,**
**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:**
**HBP030**

**ORDER CODE:**
**KEN-503-9490K**

**30 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.



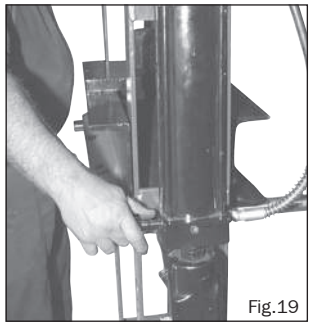
# TROUBLE SHOOTING

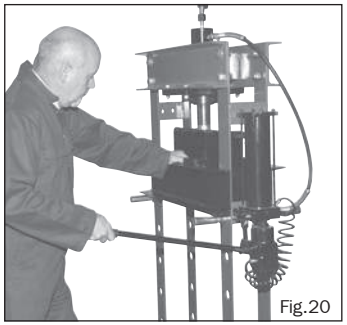


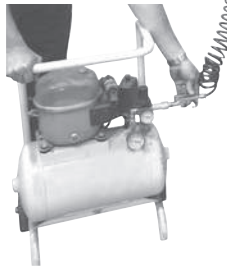
To prevent personal injury, release the pump pressure and disconnect the hose from the pump before making any repairs. Repairs must be performed in a dirt-free environment by a qualified person who is familiar with this type of equipment.

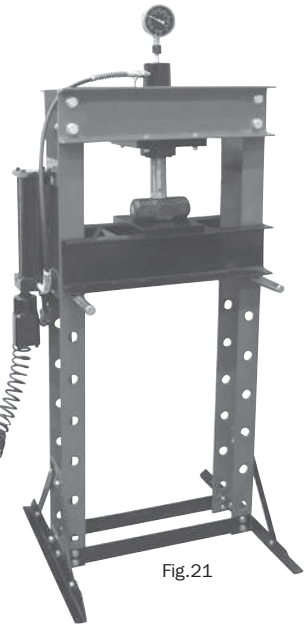
| FAULT | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| Pump loses pressure. | 1.System components leaking. | 1. Repair or replace as necessary. |
| Pump not delivering oil. | 1. Low oil level in reservoir.<br>2. Seals are worn. | 1. Check oil level.<br>2. Repair seals or replace pump body. |
| Pump does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

# OPERATING


Fig.19


Fig.20




Fig.21

To pressurise the hydraulic hand pump, turn the release valve on the side of the pump clockwise to close the valve (Fig.19). Then pump the handle up and down (Fig.20) or if using compressed air to operate, attach the trigger to an air line and press the trigger letting air into the pump (Fig.21). 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 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 or 32** 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:

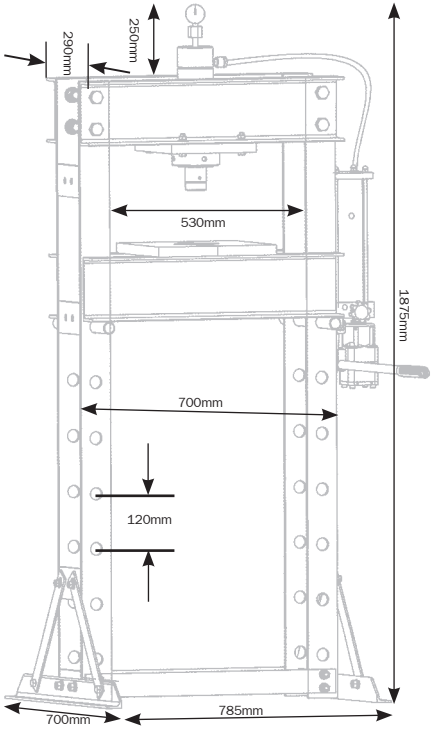
Wipe clean with a slightly oiled cloth and store in a safe place away from children. Store with the release valve open. If storing with hydraulics disconnected, make sure that threaded dust cap plugs are put on to the ends of the hose, hydraulic ram and hydraulic spreader ram, to avoid dirt from entering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

Images may differ from actual product



# CAPACITIES

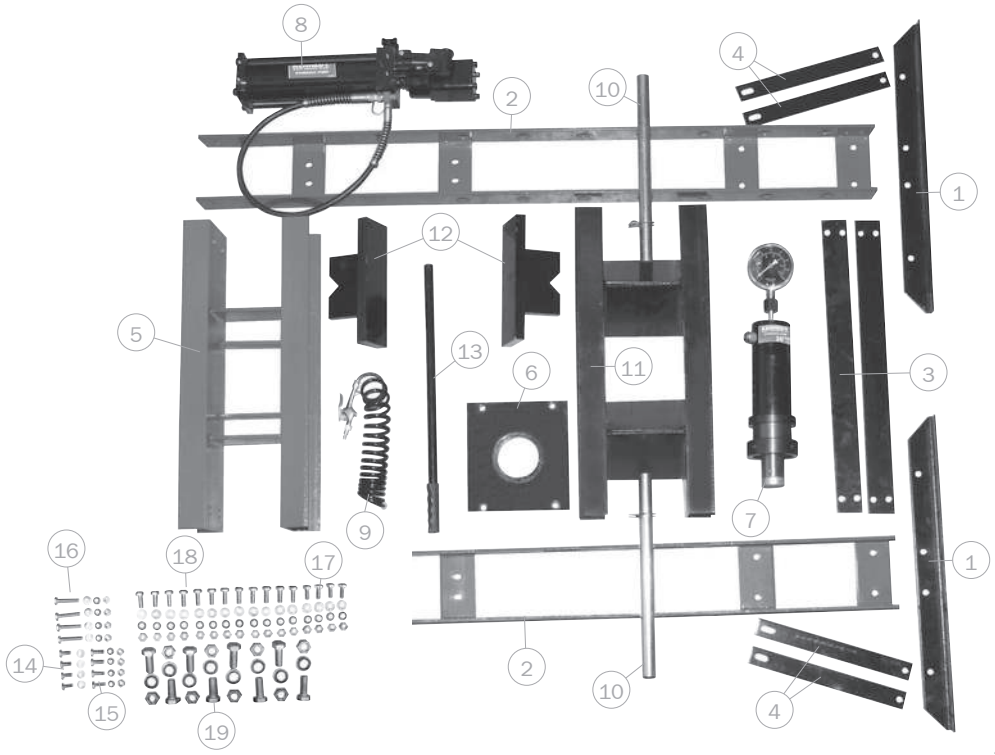
| | |
|---|---|
| **Model Number** | HBP030 |
| **Order Code** | KEN-503-9490K |
| **Capacity** | 30 Tonne |
| **Ram Stroke** | 165mm |
| **Maximum Height of Ram to Table** | 980mm |
| **Minimum Height of Ram to Table** | 140mm |
| **Table Aperture** | 170mm |
| **Working Table width** | 530mm |
| **Overall Height** | 1835mm |
| **Hydraulic Gauge Included** | Yes |
| **Weight** | 158kg |




# CONTENTS

| | | | |
|---|---|---|---|
| 1 | Base angle irons (x2) | 14 | M10 x 25mm bolts, nuts and washers (x4) |
| 2 | Posts (x2) | 15 | M10 x 30mm bolts, nuts and washers (x4) |
| 3 | Bottom bar (x2) | 16 | M10 x 50mm bolts, nuts and washers (x4) |
| 4 | Bracing straps (x4) | 17 | M12 x 25mm bolts, nuts and washers (x4) |
| 5 | Upper cross beam | 18 | M12 x 30mm bolts, nuts and washers (x12) |
| 6 | Cylinder plate | 19 | M20 x 45mm socket head bolts, nuts and washers (x8) |
| 7 | Ram assembly | | |
| 8 | Hydraulic pressure pump* | | |
| 9 | Coiled air line and trigger | | |
| 10 | Support pins (x2) | | |
| 11 | Press bed frame | | |
| 12 | Arbor plates | | |
| 13 | Handle | | |

*Image may differ from actual product



# ASSEMBLY

**TOOLS NEEDED: 17, 19 & 30mm sockets or spanners and a large 115mm 'C' spanner.**

**THIS EQUIPMENT WEIGHS - 158kg 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) using M12 x 30mm bolts, washers and nuts (18).

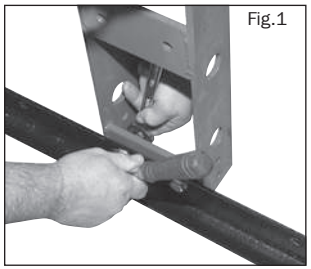
**2.** Fix bracing straps (4) to the angle iron bases using the M12 x 25mm bolts, washers and nuts (17). Fix the other end of the bracing straps (4) to the posts using M10 x 30mm bolts, washers and nuts (15). See Fig.2

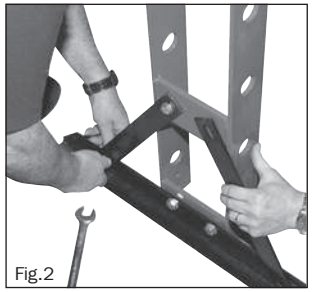
**3.** Fix the bottom bars (3) to the bottom of both posts (2) by inserting the M12 x 30mm bolts, washers and nuts (18).
See Figs.3 & 4
The press frame will now be free standing. See Fig.5

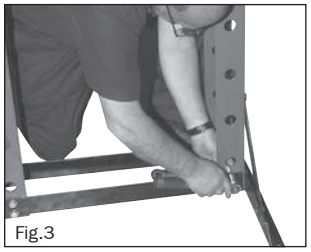
**4.** With a minimum of 2 persons, lift the upper cross beam (5) into place at the top of the posts (2) and fix using M20 x 45mm bolts, washers and nuts (19).
See Figs.6 & 7

**5.** With a minimum of 2 persons, lift the Hydraulic pump (8) into place on the right hand side of the frame and fix using M10 x 25mm bolts & spring washers (14).
See Fig.8

**6.** Fix the Cylinder plate (6) to the underside of the upper cross beam (5) using the M10 x 50mm bolts, washers and nuts (16).
See Fig.9


Fig.1


Fig.2


Fig.3

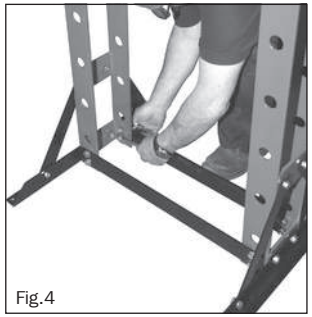
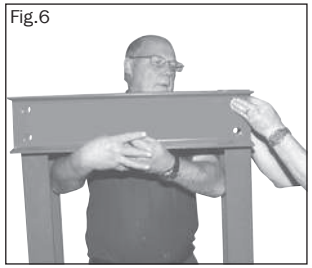

Fig.4


Fig.5


Fig.6

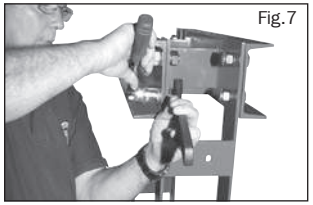
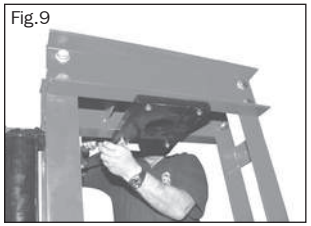

Fig.7


Fig.8


Fig.9



# ASSEMBLY

**7.** 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 Figs.10 & 11

**8.** Connect the hydraulic pump hose (8) to the Ram (7).
See Figs.12 & 13

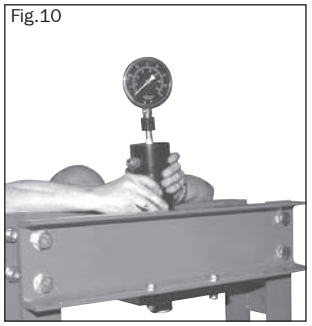
**9.** Attach the Coiled air line and trigger (9) to the bottom of the hydraulic pump (8). See Fig.14

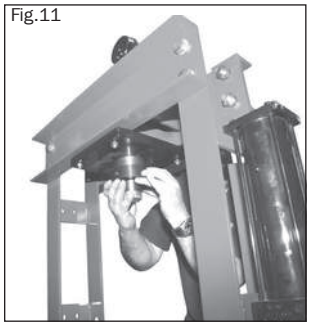
**10.** Insert the support pins (10) into holes in the posts, in positions 2 or 3 holes from the bottom.
See Fig.15

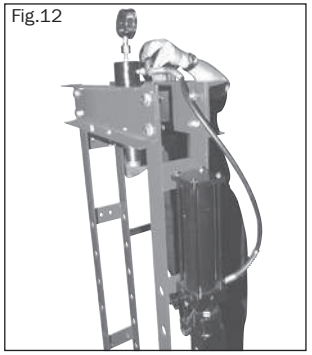
**11.** With a minimum of 2 persons, place the press bed frame (11) in position on the support pins.
See Fig.16

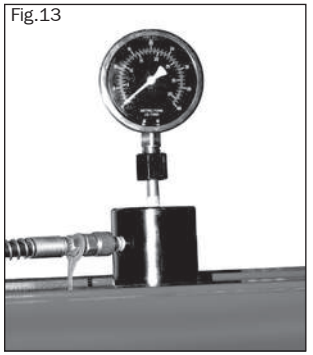
**14.** Place the two arbor plates (12) on top of the bed frame ready for use. See Fig.17 Take care not to drop as they are heavy and can easily cause personal injury.

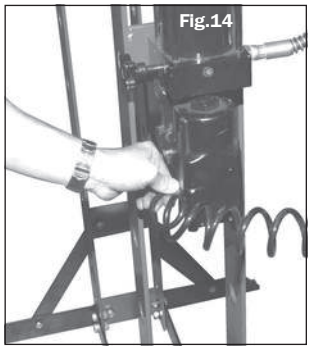
**18.** Now everything is in place, tighten all nuts and bolts securely.

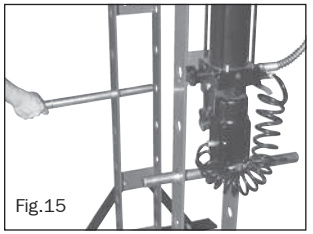

Fig.10

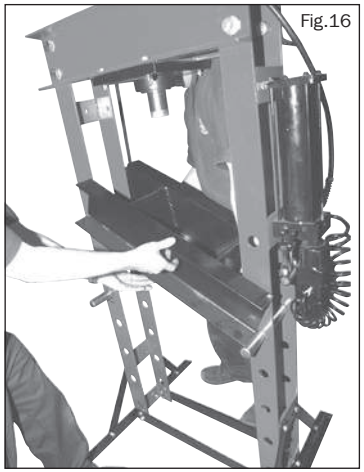

Fig.11


Fig.12


Fig.13


Fig.14


Fig.15


Fig.16

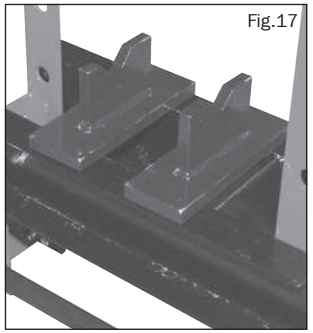

Fig.17



Fig.18

Images may differ from actual product