

BENEFITS OF UTILISING A CUSTOM HYDRAULIC PRESS FOR PRODUCTION

There is a vast variety of methods that can be used for metal forming. Hydraulic presses offer efficient means of metal forming through compacting, assembling, punching, forming, embossing, and drawing operations.

Furthermore, hydraulic presses typically offer consistent pressure, incorporate a versatile stroke length and offer larger vertical and horizontal. Additionally they have adjustable pressure capabilities that other production methods such as mechanical presses do not offer.

A custom hydraulic press is a valuable piece of equipment for the production process. This is especially shown through the comparison with mechanical presses.

THE BENEFITS OF A CUSTOM HYDRAULIC PRESS

CONSISTENT PRESSURE OR FORCE

Hydraulic presses can produce full tonnage at any stage during the stroke. Whereas, mechanical presses require the calculations to complete the pressing cycle. They need to position their parts, if full tonnage of the press is required.

VARIABLE STROKE LENGTH AS PER THE REQUIREMENT OF THE PRESS-PIECE

With Mechanical Presses the full stroke of the press must be utilised every time. This can consume large amounts of precious manufacturing time. However, a hydraulic press has the ability to set to the stroke length and they can perform a partial stroke.

This can be useful when incorporating progressive die systems. This is because the adjustable stroke length of a hydraulic press makes it easier to set up progressive tooling systems.

PISTON ADVANCE

The Slide Plate (top plate) on a **hydraulic press solution** can fast advance during the approach distance. This allows it to increase the number of strokes per minute speeding up the cycle time. In addition, enhancing production and therefore enhancing profits.

FUTURE-PROOFING

Retro-fitting or updating ageing hydraulic press machinery is often cheaper than the cost of rebuilding a mechanical press. Therefore, enhancing the life of your capital asset, increases the overall return on your capital asset investment.

CUSTOMISATION

Hydraulic presses allow for customisation to suit the customer's production needs. They inherently handle a range of tonnages whereas mechanical presses are typically one press one tonnage.

Related: [Improve Your Production Process With A Workshop Hydraulic Press](#)

COMMON INDUSTRIES FOR HYDRAULIC PRESS UTILISATION

Hydraulic press solutions can be off the shelf or can be application-specific (bespoke). However, there must be a clear understanding of the product that is being manufactured. The hydraulic press chosen is dictated by the material that is being pressed. Therefore, a **bespoke hydraulic press** is ideal to receive the correct machine for specific applications.

Customised hydraulic presses are implemented in many industries. One of the most common industries using hydraulic presses is the automotive industry. It uses hydraulic presses to allow for the joining of two or more parts together. Some primary examples of this are bearings, shafts, gear and rear axle assemblies.

Assembling applications are also carried out in the electronics, medical, and military industries. Compaction applications may include military munitions and fuel cell and battery compaction.

The high-tech aerospace industry **uses hydraulic presses** with deep draw processes for a wide variety of components. Deep drawing is a well-known press forming process. Generally used to manufacture fire extinguishers, oil cans, fan housings, and duct-work.

Other industries using bespoke hydraulic presses for their pressing operations include white goods home appliance manufacturers. Additionally, agricultural implement manufacturers and renewable energy device manufacturers.

DO YOU WANT A BESPOKE PRESS? CONTACT US TODAY

Workshop Press is an exclusive UK reseller of RHTC Presses and has worked with RHTC for over 15 years. RHTC and Workshop Press offer only top quality **hydraulic press solutions** that are manufactured in the EU. The metal forming presses are made with top quality materials, components, and workmanship according to the latest CE Standards.

We offer a lineup of standard hydraulic presses that can be **customised to suit any customer's needs** or production environments. Customisations include controls, safety features, system integrations, tooling designs. In addition, the overall physical structure of the press. All sales and service is based in Warwickshire with an overall focus on quality. Call us today on **+44 (0)800 999 1090** or visit our website.

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