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Bipel 300 Tonne Press



Stock Code: ADV500

Manufacturer: Bipel

Model: Bipel 300 KN Tonne Press

Year of Manufacture: REF. 2018

Serial: A8781

New or Used: Used (Second Hand)

Capacity: 300 Tons

Process Application: Down Stroke Pressing

Other Info: As NEW, unused since full refurbishment

Weight: 15,000

As NEW Bipel 300T ACS Hydraulic Down Stroking Presses - Fully re-built and refurbished by Bipel in 2018

More than 6000 BIPEL compression down stroking presses for moulding thermoplastic materials are in use in some 60 countries throughout the world.

Many users are market leaders in their industries. The reputation for reliability earned by BIPEL down stroking presses has made them synonymous with moulding, Rubber, composites, electrical components and switches and a wide range of industrial parts including grinding wheels.



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Hydraulic presses are very useful for industrial purposes. They have many applications and many industrial environments have uses for them. Hydraulic press uses include sheet metal manufacturing, deep drawing, punching, metal formation, blanking, stamping, moulding, forging, clinching, rubber forming & powder compacting

Hydraulic presses all differ in tonnage, the application will determine the tonnage you will need to use.

Basic Operation

An hydraulic press consists of two connected cylinders. There's a larger cylinder, known as the Ram and then a smaller cylinder known as the Plunger.

The hydraulic fluid is placed in the plunger, then pressure is applied. As the pressure increases, the fluid puts pressure on the piston below, in the larger cylinder. The pressure created between the two cylinders comes into contact with the material, such as metal. It then crushes it to create the product, for example, sheet metal.

Once the required shape has been fully formed, the pressure on the piston is released and the process starts all over again.

Hydraulic Press Usage Benefits

Consistent tonnage – A hydraulic press can generate full pressing force anywhere in the stroke. This gives you more control over travel distance, pressure, and return position.

Customisation – Hydraulic presses can be used for even the most complex parts. We can modify a current design, or develop a custom press to meet your specific requirements.

Small footprint – Hydraulic presses can generate high pressure over a small surface area. This means they take up a lot less footage than many other industry machines.

Economical – Due to the simplicity of the hydraulic press design they very rarely breakdown, this means less outlay on maintenance. However, should it fail, parts are easy to come by and easy to replace.

Longer Tool Life – A hydraulic press tool is designed to fit the application, not the press. Overload protection minimises the damage on tooling, thereby extending the tool life.

Industrial Use:

Rubber Aerospace and Defence Mining Bearings Forging & many other industries that require compression mould presses

Quality

Built for long lasting performance Economical trouble free hydraulics Flexible ejector system Fully automatic powder feed & strip

Outline Press Specification

Main Ram force: 3000 kN Ram Stroke: 610 mm Daylight between Platens: 841 mm

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Refurbishment features of this particular Bipel 3000 KN Down Stroking Press

- The machine was full stripped down to bare metal primed and repainted
- All rams and cylinders were taken apart re-sealed and tested before refitting
- NEW hydraulic pipe-work and fittings.
- Fitted with a new safety manifold with welded fittings
- NEW electric pump and motor was fitted
- The machine was fully rewired
- An Omron Plc and Hmi (human machine interface)
- The existing sheeting and doors were stripped and powder coated and refitted
- The machine was fitted with an air operated rising front guard with a safe edge and an opening gate type to the rear all the guards are interface to the safety systems

Press Control

- All of the press movement setting can be set via the HMI
- The machine was fitted with a linear transducer to the main ram which can be set via the HMI
- Cure times –breath times breath open height are all set via the HMI
- A hydraulic pressure transducer was fitted into the main ram circuit to enable you to read the pressure you will be moulding at this will be displayed on the HMI, the hydraulic pressure settings are via a manually set valve on the front of the press
- Tool setting mode for ease of fixing tooling
- If the tooling goes over or under the set temperature it will be displayed via the Hmi and show an alarm this also applies to the pressure setting
- All the press movements can be operated via selector switches and buttons on the front of the machine

View Bipel 300 Tonne Press on our web site at <https://www.rileysurfaceworld.co.uk/machines/30776.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.