Associated Pacific Machine Corp.
724 Via Alondra
Camarillo, CA 93012
Phone 805.445.4740 x126
Email: Sales@apmcorp.com
Web: www.apmcorp.com

High Speed Die Cutting Press (HS-12 Tons) (HS-12 Tons)

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Features

Features

The single cylinder High Speed press has a welded steel construction for superior rigidity and strength. This completely automated die cutting system is user friendly and is specifically designed to achieve high production rates for kiss cutting and through cutting. The hydraulic system is designed for low noise, optimum efficiency, and low electricity consumption.

Advantages

- High Speed Hydraulic System with Air Cooled Oil Cooler – This is a special hydraulic system so the press can make more cuts per minute than it would make with a normal hydraulic system. The oil cooler is to keep the hydraulic oil at the proper operating temperature.
- Hardened and Ground Steel Plate – The hardened and ground steel plate has a 60º Rockwell hardness and is designed as a non-consumable cutting surface for through cutting and kiss cutting of various materials. Kiss cutting is done in conjunction with mechanical stops.
- Manual 4 Position Mechanical Stops – Low point stops ensure the precise bottom position and parallelism of the head on each cutting stroke. There are four adjustable stops located in the head of the press. They correspond to the four corners of the head. When one stop is adjusted all stops are adjusted at the same time.
- Pneumatic Die Mounting Rails Under the Head – The die rails hold the tooling under the head. They are pneumatically operated and fully adjustable for easy die board change out.
- Inboard and Outboard Pneumatic Pinch Roll Feeders, Max. Opening 2.4” (60mm) –The pinch rolls are suited to feed up to two layers of material in and out of the machine while holding the material during the cutting process.
- 1 HP Servo Motor Positioning System – The servo motor positioning system has a +/-0.004” positioning accuracy which means you will obtain very high material yields. The system consists of an AC servo motor, encoder, and integrated drive unit.
- Single Roll Material Stand with Tension Bar – An unpowered material stand used to hold rolls of material for unwinding.
- Material Rewind Stand with Tension Bar and Frequency Converter – A motorized rewind stand. The tension bar is used to control when to rewind the material

Options

Machine Options

- Model HS2525-40 – Above machine with 40 Metric (44 U.S.)Tons of cutting force
- Open Sided Frame Construction – Allows for very easy cutting die change. The cutting die slides in and out of the machine from the side instead of having to load dies from along the material path.
- Automated 4 Post Mechanical Stops (Instead of the Manual 4 Post Mechanical Stops) – Mechanical stops are controlled by a motor with an encoder. Low point stops ensure the precise bottom position and parallelism of the head on each cutting stroke.
- Automatic Material Unwind Stand with Tension Roller and Lazy Loop Control (Instead of Single Roll Material Stand) – Central driven single roll material stand driven by motor and reducer with lazy loop control and 3 photo sensors to make sure there is enough material for the next feed
- Material Rewind Stand with Magnetic Clutch Tension Control (Instead of Material Rewind Stand with Tension Roller) – Driven by motor & reducer with magnetic clutch tension control. Speed can be adjusted by frequency converter
- Knock Out Station with Third Pinch Roll – After the cutting is completed, parts are automatically removed from the web. The cylinders and feed system work in conjunction with the press. A third pinch roll at the end of the table pulls the material across the table.

Specifications

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