



Tool Assembly Press (TAP)

Press force 300T / 650T

Press design

STRECON offers a hydraulic press unit with press force up to 650T for assembly, die setting, and disassembly of tools and molds assembled by press fitting. The press frame is stripwound and allows for a very strong and compact press design. Even at max press load, the press frame remains in a fully compressive state.

The press is equipped with a 600 bar high-pressure hydraulic power pack, proportional valve technique, and is easy to operate for manual pre-setting and adjustment during operation of the required press force. The tool assembly press is also equipped with an adjustable idle speed function on the low-pressure circuit, and the cylinder speed under tool loading is fixed to 1 mm/sec and automatically activated when the cylinder has contact to the tooling object.

The front side of the assembly press has been reserved for tool handling. The sliding press table ensures an open, proper positioning and setting of the tools and molds before being moved into the press room. The control panel is placed next to the press table and provides a perfect view of the press operation.

The TAP machine is very safe and cannot be operated with an open door, however, it can be opened for axial prestressing of the die set or mold. In such cases, the operator has safe and easy access for mechanical locking of the tooling with a special spanner while the tool stack is kept under static pressure. This design feature offers a smooth, controlled, safe, and user-friendly operation of the assembly press.

The hydraulic power pack and electrical cabinet have been integrated into the press body, which makes it easy to relocate the equipment by means of a forklift. The tool assembly press can easily be installed at the production line or in the tool shop, and it is simply connected to the power- and pneumatic air supply, respectively.

Use in Industry

Tool assembly, die setting and disassembly are important procedures for tools and molds used for precision metal form operations like cold and warm forging as well as and other high-pressure applications subject to assembly by press fitting.

Press sizes	3000 kN	6500 kN
Workspace	W400 x D500 x H400 mm	W545 x D750 x H515 mm
Overall dimensions	W1250 x D1250 x H2150 mm	W1335 x D1370 x H2245 mm
Weight	2250-2750 kg	3750 kg
Stroke length	305 mm	305 mm
Speed	Idle speed approx. 10 mm/s	Idle speed approx. 10 mm/s
	Press speed under load 0-1 mm/s	Press speed under load 0-1 mm/s



Stripwound press frame construction



Machine design