



Tool Assembly Press (TAP)

Press force 250T / 500T

Press design

STRECON offers a hydraulic press unit for tool assembly, die setting, and disassembly of tools and molds assembled by press fitting with up to 500T in press force. The press frame is stripwound and ensures an effective compression of the steel frame. 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 pre-setting of the required pressure force. In addition, the press has an adjustable speed function on both the high-pressure and the low-pressure circuits. The high-pressure circuit is activated when the load exceeds 10 tons. These design features offer a smooth and controlled operation of the tool assembly press.

The front side of the tool 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 just 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 spanner while the tool stack is kept under static pressure.

The hydraulic power pack and electrical cabinet have been integrated into the press body, and TAP represents a compact and easy-to-install equipment solution compared to conventional tool assembly presses.

The TAP machine is available with the following options: Force / Stroke measurement system integrated into main 15" control panel, axial prestressing, and time delay.

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 other high-pressure applications subject to assembly by press fitting.

Press sizes	2500 kN	4000 kN / 5000 kN
Workspace	W560 x D560 x H500 mm	W650 x D650 x H500 mm
Overall dimensions	W800 x D1330 x H2320 mm	W1100 x D1600 x H2450 mm
Weight	2200 kg	4300 kg
Stroke length	150 mm	200 mm
Speed	Idle speed approx. 30 mm/s	Idle speed approx. 15 mm/s
	Pressing speed approx. 0.5 – 3.4 mm/s	Pressing speed approx. 0.5 – 1.7 mm/s



Stripwound press frame construction



Control panel and sliding press table for proper positioning and setting of the tools