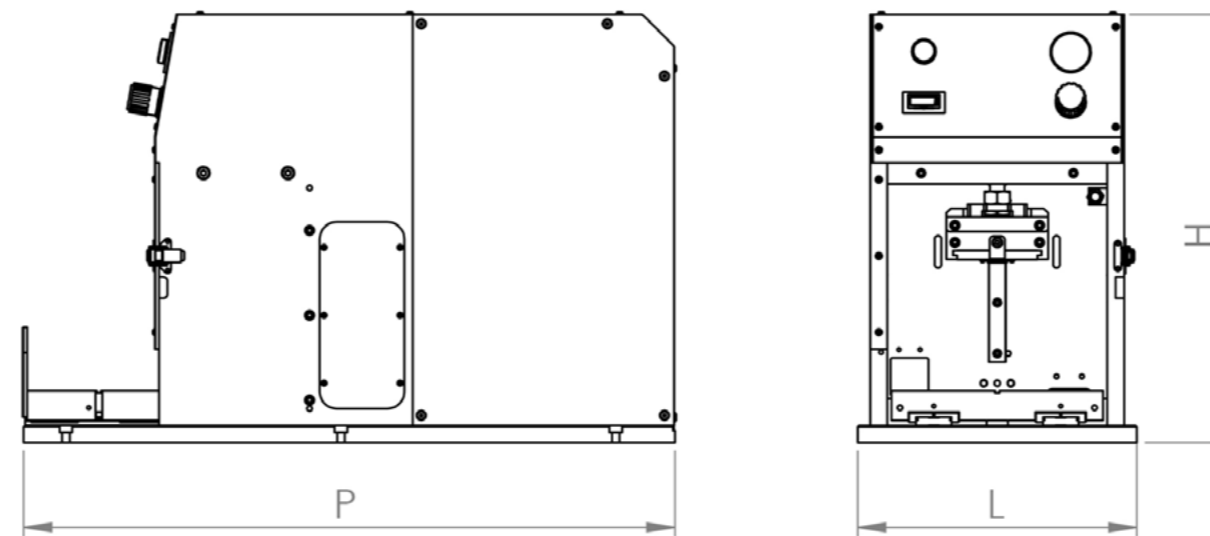


Technical characteristics

Series	T150P	T200P	T300P	T400P
L	180 mm	230 mm	330 mm	440 mm
P	300 mm	540 mm	770 mm	955 mm
P _{max}	385 mm	650 mm	770 mm	955 mm
H (*)	170 mm	185 mm	505 mm	572 mm
Drawer dimensions	75 x 75 mm	85 x 107,5 mm	250 x 170 mm	330x 230 mm
Force range (at 6 bar)	0,75 à 1,18 kN	0,75 à 1,87 kN	3 à 28 kN	28 à 140 kN (*)
Temperature range	10 - 40 °C			
Power supply	230 V AC - 50 Hz			
Pneumatics	Ø6 mm, 6 bar	Ø6 mm, 6 bar	Ø8 mm, 6 bar	Ø10 mm, 6 bar
Control cabinet	separate	separate	separate or integrated	integrated
Safety class	4			

(*) May be higher in case of use of a staged cylinder
 (*) Hydropneumatic systems are reaching forces of more than 28 kN



All technical data may be customized upon request (dimensions, pressing force, stroke etc.).



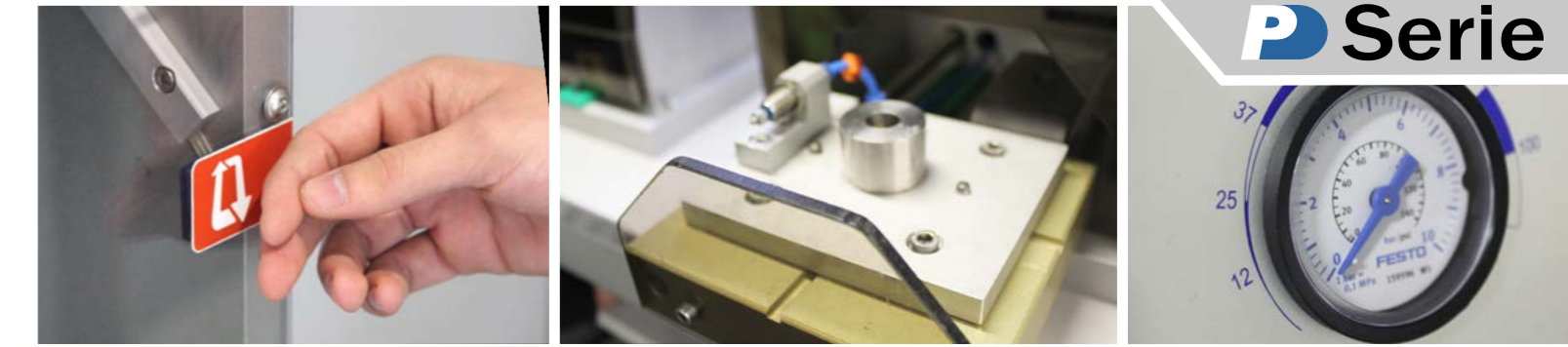
CE All KB TECH equipments comply with European safety standards

KBTECH

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Pneumatic Press KB TECH



P Serie

Excellent ergonomics for improved productivity

S RAPIDITY
 Optimized cycle times for higher productivity

Q QUALITY
 Constant pressing force over the whole pressing stroke

E ERGONOMICS
 Loading outside of the work zone and cycle start by sensor button

✓ SIMPLE OPERATION
 The press is ready for use and may be equipped with automatically recognized interchangeable tools



Exchangeable tools

Simple and efficient

A DESIGN DEPARTMENT AT YOUR DISPOSAL

After more than twenty years of experience in the design and the manufacturing of automated special machines, air presses, tools and templates, KB TECH has acquired high technological know-how.

Our design department offers services in the field of

- realization of exchangeable tools of any type,
- integration of your existing tools,
- programming of press cycles,
- customizing of air presses according to your needs, even if sophisticated.

Exchangeable tools

The drawer and the upper tool are equipped with mechanical interfaces allowing for comfortable tool change without wrench. If required by the application, there may be electric and pneumatic distributors on board of the drawer, permitting to equip the tool with actuators and/ or detectors. As an example, it is possible to check the presence of parts before starting a cycle, or to maintain parts by means of cylinders.

Software recognition

A mechanical poka-yoke prohibits a wrong positioning of the tool, and a check by software is performed in order to control the correspondence of the upper and lower tools.

This identification permits also to select automatically the appropriate press program, without need of any intervention by the operator.

KBTECH

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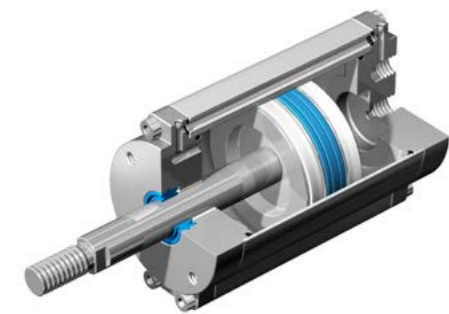
Pneumatic assembly press

The whole range from 0.75 to 140 kN

TECHNOLOGY OF CYLINDERS

The KB TECH presses are equipped with direct-acting pneumatic cylinders with one or more chambers, generating a constant force over the whole stroke.

For the applications requiring an important force a hydropneumatic cylinder can be used, characterized by a maximum thrust over the last millimeters of stroke, without need of a hydraulic center.



Performance and speed

The pneumatic press KB TECH constitutes a perfect alternative solution to traditional manual presses wherever the cycle time, the required force or quality requirements are important criteria. KB TECH provides a series of equipments that are covering a vast range in terms of force, work stroke and dimensions.

Equipments ready for use

The press KB TECH is equipped as standard with PLC, with a low-pressure driven loading drawer and with a safety relay, a "turnkey" equipment which may be used safely without specific integration.

Ergonomics

Parts are positioned on a drawer outside of the press zone, ensuring improved loading conditions and perfect safety conditions for the operator.

Cycle start is triggered by a short passage of the hand in front of a touch button on the front façade of the press near the loading zone. There is no need for a distinct pressure, a simple streaking is sufficient. During the press process operator's hands are free, and he can ensure parallel tasks.

Additional functions

100% modularity



PRESSURE CONTROL

The pressure reducing valve and the manometer on the front façade of the equipment permit the adjustment of pressure of the pneumatic circuit. Pressure is proportional to the force generated by the cylinder.



ADJUSTMENT OF LOWER STOP

The low dead center may be adjusted by a scaled rotary knob. It determines the maximum stroke the slide may perform.



DISPLAY

A display may be integrated for the supply of essential information for the operator about the correct process of cycles. Also, screens for configuration and for diagnostics are available.



TRACEABILITY

For the reliable product identification it is possible to connect a bar code reader to the press. Press process data can be saved in a data base or sent to a network.

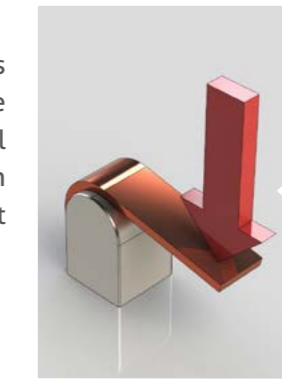
Application examples

Adapting to many different tools



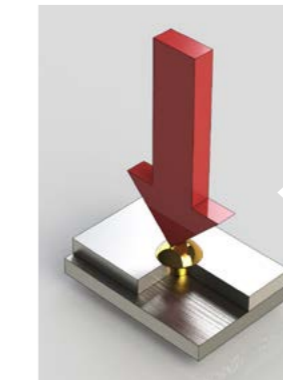
FITTING

The final position of parts can be adjusted by the lower limit stop by small steps, or by the adaptation of the stop to the part position.



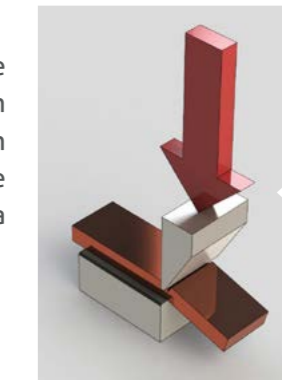
FOLDING

The profile of the folds is determined by the geometry of the configuration plunger - matrix, and it may be adjusted by moving the lower limit stop and/ or by the action of side plungers which are fixed in the press cage.



RIVETING

A stop with precise adjustment combined with a time-lag in low position permits to compensate elasticity of materials for a precise rivet joint.

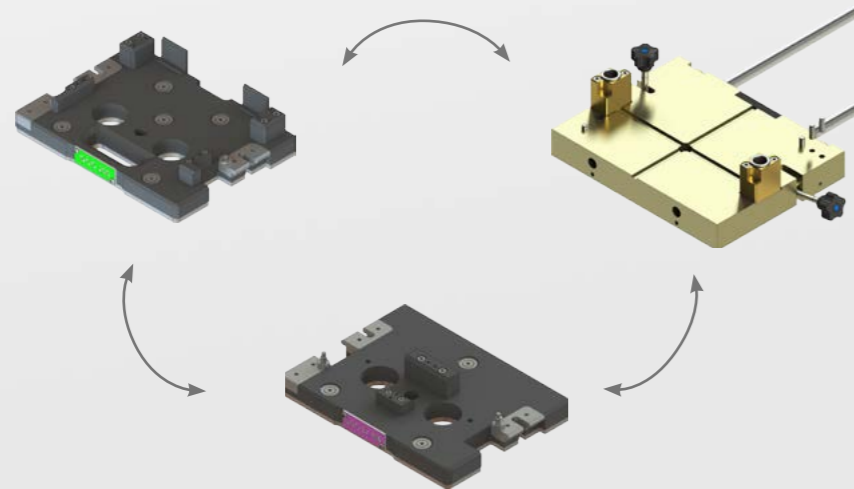


CUT

The press cage may be equipped with ducts for evacuation by gravity and/ or with automatic manipulation systems for the treatment of scraps.

Due to the use of a PLC and a non-proprietary programming language with supply of the source code, cycle modifications or creation of new press process profiles are possible. The tools may also be equipped with actuators and/ or detectors if complementary operations are to be performed during the pressing cycle.

Quick tool exchange



Comfortable work under perfect health and safety conditions, for the improvement of productivity and quality.



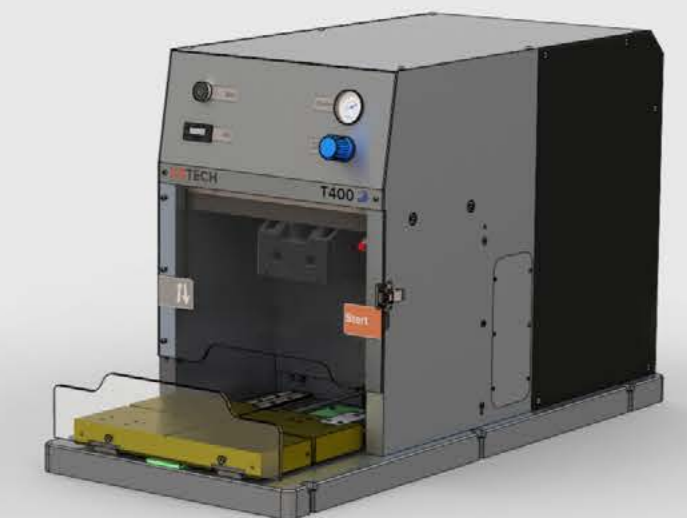
T150P



T200P



T300P



T400P