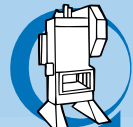


Press lines



Power Presses



Coil-handling



Nibbler



Ancillary



Service

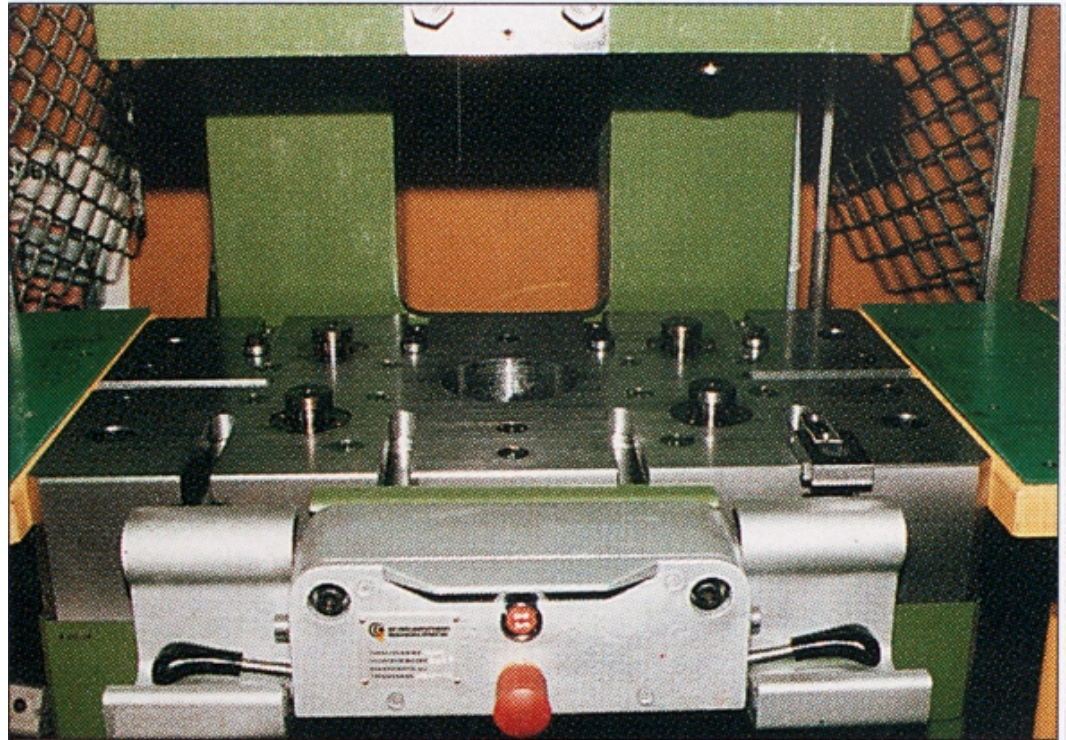


Automation



Education

Tool changing system



SMV Tool changing system SPE-2 and SPE-3

SMV has developed two tool changing systems, SPE-2 and SPE-3 to receive a maximum of productivity. The time for tool changing is substantially reduced, inclining pressure of the tool which can result in a tool damage is prevented, and guarantee that the tool not get loose.

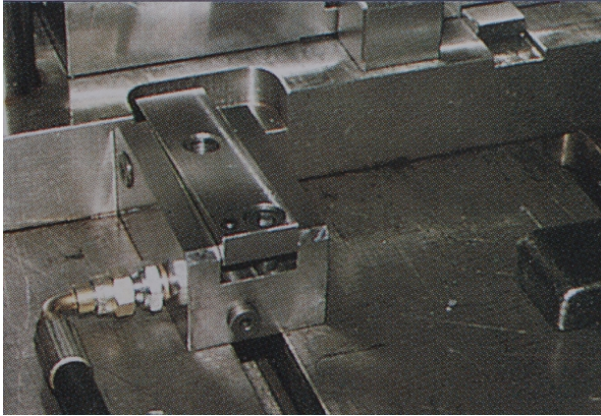
SPE-2 is a model with hydraulic clamping bolts which can be displaced/locked in the T-slots on bedplate and slide. Clamping force 45 kN per clamping bolt. 30 mm high clamping faces are required on the tool. A centering device with a key is applied in the slide's stem hole. Key groove for centering is milled on the top of the tool.

SPE-3 is a model with hydraulic clamping bolts recessed in bedplate and slide. Clamping force 37 kN for each clamping bolt. T-slots are milled in the lower and upper part of the tool. Alternatively can plates with T-slots be mounted on the tool. Positioning of the tool left to right is done with the T-slots, to position the tool front to back the bedplate can be equipped with stop gauges, with or without proximity switches.

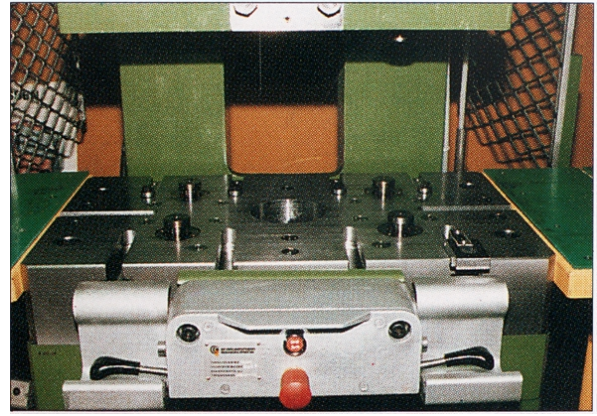
The clamping bolts can be used on both new and old presses and arranged together with stop gauges with proximity switches, air floaters VLK-1 for "floating" tool transport, tool guiding arms and tool guiding rolls to admit optimum tool handling.

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Tool clamping system SPE-2



Tool clamping system SPE-3

SPE-2

Hydraulic clamping bolts which can be displaced/locked in T-slots on bedplate and slide. Clamping force 45 kN per clamping bolt. 30 mm high clamping faces are required on the tool. A centering device with a key is applied in the slide's stem hole. Key groove for centering is milled in top of the tool.

The clamps are equipped with quick couplings for the hydraulic hoses and can easily be removed when not needed.

SPE-3

Hydraulic clamping bolts recessed in bedplate and slide. Clamping force 37 kN for each clamping bolt. T-slots are milled in the lower and upper part of the tool. Alternatively can plates with T-slots be mounted on the tool. Positioning of the tool left to right is done with the T-slots, to position the tool front to back the bedplate can be equipped with stop gauges, with or without proximity switches.

When the clamping system is not used, the clamping bolts are recessed into the bedplate.

Stop gauges with proximity switches

Stop gauges with proximity switches can be fitted on the bedplate to set the position of the tool front to back. The proximity switches control the tool clamping and the air floaters, and monitor continuously the position of the tool during operation.

Air floaters VLK-1

To make an easier tool transport into the tool area the press can be provided with air floaters VLK-1. Steel bedplate can be fitted with air floaters VLK-1 to obtain "floating" tool transport.

The tool guiding arms

For easy transport of the tool into the tool area the press can be fitted with tool guiding arms. The attachments for the tool arms are machined into the bedplate. The tool arms are easily fitted for tool change and easily taken away before operation.

Tool guiding rolls

The tool guiding arms and the bedplate can be equipped with tool guiding rolls to set the tool in correct position. The guide rolls in the tool guiding arms are spring-suspended to allow easy positioning of the tool on the tool guiding arms.