

Embossing cylinder / riveting cylinder *- Preliminary data sheet -*

Our embossing cylinder offers the following advantages:

- High impact power with low air consumption
- Low wear off the stamping/riveting die, as the stamping force acts in pulses
- The piston rod, which serves to hold the tool, is decoupled from the impact piston
- The workingpiece to be machined is fixed or clamped before the actual work process

Application and area of use:

Embossing, riveting, flanging, and punching thin sheet metal

Design and functional description:

The stamping cylinder consists of a double-acting cylinder for fixing (clamping) the workpiece, an electromagnet which holds the striking piston until the preset pressure required for embossing is reached and a piston rod which serves to hold the embossing/riveting punch.

First, the piston rod is lowered onto the workpiece to be machined. The cylinder chamber above the electromagnet is filled with pressure medium. Once the set working pressure is reached, the electromagnet is de-energized. The impact piston now suddenly detaches from the magnet and hits the piston rod, which in turn transfers the force to the workpiece to be machined.

After the stamping process, both the impact piston and the piston rod are pneumatically raised again, and the electromagnet is energized. The stamping/riveting cylinder is now back in its home position.



