

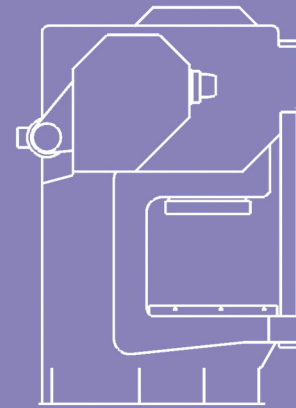
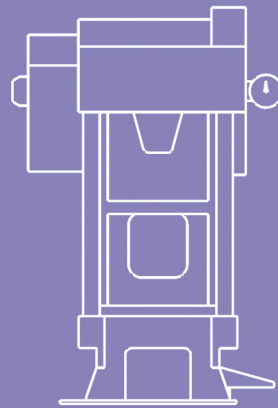
MECHANICAL ENGINEERING

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PED 100 SD



DUO BALL-CAGE PUNCH

The PED 100 SD Duo ball-cage punch is designed as an eccentric press with press capacity of 1.000 kN. It can be used in all areas of CV-joint manufacturing and the roller bearing industry.

This punching machine has two work stations where window openings can be punched into ball cages one after another, and the process-based punch chamfers on the sides of the windows can be further processed (recut). This approach saves the need for the conventional clearing process.

Alternatively, customised ball cages can also be made in many different sizes, shapes, dimensions and window sections. The PED 100 SD machine stands, with C-frame design and tie rods, enable very good accessibility to the tool installation space.

The 8-fold plunger guide system guarantees extreme precision in the punching and recutting processes. The ram stroke can be easily adjusted using a servomotor. The workpiece flow, parts transfer between the two work stations, and parts positioning are all fully automatic.

The punching machine also has a central suction system for punched-out parts and shavings, as well as a fully-automatic workpiece loading and unloading system.

PRECISION TOOLS

We develop and manufacture punching tools to create ball cages. Apart from their extraordinary quality, our tools are also distinguished by their long life. A tool set comprises the following components:

- Punch holder
- Centring plate
- Collet chuck
- Blanking die for punching
- Punch for punching
- Blanking die for recutting
- Punch for recutting

TECHNICAL DATA

Pressing force	1.000 kN
Spatial demands	3.400 x 3.900 x 3.500 mm
Machine weight	14.500 kg
Installed power	20 kW
Number of strokes	70 strokes/min
Cycle time for 6 windows	approx. 10,5 sec
Work stations	2
Control	PLC

ADVANTAGES

- **Integration of two manufacturing operations**
- **Fully-automatic workpiece flow**
- **Fully-automatic parts positioning**
- **Central disposal unit for punched-out parts**
- **High degree of profitability by omitting the clearing operation**
- **Robust construction**
- **Long tool life**
- **Maintenance-friendly**
- **Environmentally-friendly due to dry processing**
- **High degree of machinery availability**
- **Flexible manufacturing through use as a precision punch or with normal design**