

IPM40

Isostatic Powder Press for Battery Tubes



Advantages

- Precise isostatic forming for thin-walled tubes
- Special powder filling system tailored to the geometry of the part
- Fully automatic part removal by robot
- Modular production cell system
- Efficient use of space due to centralized supply units

Technical information

- Closing force: 400 kN
- Isostatic pressure: max. 2000 bar
- Safe pressing medium water emulsion: < 1000 ml
- Isostatic monoblock tool
- Length of part: up to max. 350 mm
- Wall thickness of part: $\geq 1,2$ mm
- SIEMENS PLC

Keyfacts

- Basic module with centralized sub-assemblies
- Possibility to expand to production cells
- Robot for parts removal
- Fully automatic production
- Flexible layout possibilities
- Network-compatible
- Suitable for remote maintenance

Characteristics

- Closed-loop controlled closing cylinder
- Closed-loop controlled pressure build-up and reduction
- Each module equipped with its own pressure intensifier
- Demolding by 'Extraction from above'
- Parts with flat bottoms possible
- Individual control and visualization system for each module
- Tool change during operation possible for each module

Technologies

- Volumetric powder dosage
- Filling under vacuum
- Process control by means of weighing
- CIP procedure
- Elastic dies with integrated sealing lip
- Fully automatic tool cleaning systems