

# IPM40

## Isostatic Powder Press for Battery Tubes



### Advantages

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- 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

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- 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

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- 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

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- 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

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- 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