

## Data Sheet

Reference No.:43336

### forging press -hydraulic-

Brand: SIEMPELKAMP  
 Model: ISOTHERM SCHMIEDEANLAGE  
 YoM, approx.: 2016 used  
 Reconditioned:  
 Controls:



#### Press Design

drive system: hydraulic  
 openings in uprights: yes  
 number of suspensions: 1  
 number of slide actions: 1  
 slide ejectors / cushion: yes  
 opening in table: no

#### Press forces

total force (nominal): 800 to

#### Press Table

table surface (left-right): 1300 mm  
 table surface (front-back): 1300 mm

#### Slide

stroke: 700 mm

#### slide ejector / cushion

nominal force: 5 to  
 stroke: 20 mm

#### Tool Assembly Dimensions

distance table - slide max.: 1200 mm  
 distance between columns (H-frame): 1325 mm

#### Electrical specifications

total power consumption: 400 kW

#### Dimensions / weights

total height: 6100 mm  
 total weight approx.: 55000 kg

#### Attachments (presses)

press automation: yes  
 acc. to actual accident protection  
 regulation: yes  
 European CE standards: yes

#### Additional Information:

Isothermal forging is a type of forging process that involves shaping a material while maintaining its

temperature at a constant level throughout the forging process.

The key advantage of isothermal forging is that it allows the production of complex, high-precision parts that would be difficult or impossible to create using other forging methods. The constant temperature also helps to prevent defects such as cracking, which can occur when a material is cooled too quickly after being shaped.

Isothermal forging is commonly used in the production of components for high-performance applications such as aerospace, automotive engineering and orthopedic implants, where the strength, durability, and precision of the parts are crucial. It can be used with a wide range of materials, including steel, titanium, and aluminum alloys, among others.

The isothermal forging cell essentially consists of the following components:

- Forging press Siempelkamp 800 to from year of construction 2016
- Attachments for cell enclosure (charging and cleaning side)
- Inductive die heating (upper and lower die)
- Rotary hearth furnace FK DH11/13E from year of construction 2016,  
54 KW, max. temp. 1300 °C  
for titanium and nickel alloys
- Universal charging manipulator with max. handling weight 8 kg
- Inductive die heating ITG ITPA 2k80+80 From year of construction 2015, 200 kVA
- Technical equipment for controlled purging of the enclosure with nitrogen  
and for controlled ventilation of the enclosure with atmospheric air
- Oxygen measuring equipment
- Feed lock DN 500 for max. component dimensions 350 x 250 x 100 mm
- Furnace airlock
- Set-up doors on the operator side of the press cell
- Hydraulics with max. operating pressure 320 bar, power consumption 35 kW
- Electrical system

#### Seller:

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**Photos & Documents**

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