Data Sheet

Reference No.: 43336

kovačka presa - hidraulička -

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

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Photos & Documents

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