

Technology

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Posledn prava Wednesday, 09 April 2008

1 Wire panel welding machine

CNC multi-point resistant welding machine GAO 516/06-12-20, from the company IDEAL Germany, is dedicated for production of wiremesh and flat panel wire products

It is characterized by high productivity and working speed. The Important advantage of the machine is the possibility of welding meshes on wired frames (parts, so called gitterboxes)

Relatively quick machine setting ensures high flexibility so it is convenient also for smaller series.

Technical parameters

mesh width min/max 270 - 1600 mm

mesh length min/max 300 - 3000 mm

wire diameter 3 - 10 mm

min. gap between longitudinal wires 30 mm

min. gap between lateral wires 15 mm

in bright wire, galvanized wire, or Galfan

2. 3D wire bending machine

The BEGE company owns two CNC 3D wire bending machines from the Macsoft Numalliance France

The machines are dedicated for space special wire bending. They are characterized by high productivity and very high programming of the machine ensures quick delivery terms also for small series

Technical parameters

min. wire diameter 3 mm

max. wire diameter 10 mm

3. Wire straightening and cutting

Wire straightening machine RAVNI serves for wire straightening and cutting from rolls. Length tolerance +/- 0.5 mm

Technical parameters

min. wire diameter 2,5 mm

max. wire diameter 10 mm

min. straightened wire length 50 mm

max. straightened wire length 4000 mm

4. Laser cutting

2D laser STX 48MK2 1,8 kW from the company MAZAK, Japan, serves for various shapes cutting and engraving of steel and stainless steel

Due to high products precision and cuts quality next treatment is not necessary

Technical parameters

working area 1250x2500 mm

max. material thickness of construction steel – 15 mm

max. thickness of stainless steel – 6 mm

5. Plates bending

The BEGE company has 3 CNC pressbrakes with power from 40 tons to 200 tons

The smaller presses are able to bend plates up to 2000 mm width , 200 tons one up to 3000 mm

6. CO₂ welding robots

Welding is the main part of our production. We have 20 welding workstations supplemented with 2 welding robot workstations from Panasonic and ABB.

7. Profiles cutting

CNC sawing line for tubes and profiles from the CONNI company, Italy, serves for cutting tube in 90° till 45° in lengths from 20 till 3000 mm

The machine can be loaded with whole packages into the stack and is fitted for serial production. Pivoted circular allows cutting under angles up to 45°.

8. Metal surface treatment

The BEGE Company dispose with the technology for metal surface processing by electrostatic powder coating

The line coats epoxy, polyester and Rilsan in all the RAL colors

The ferit-fosfat pre-processing ensures perfect powder adhesion.

Technical parameters

paintshop width 750 mm

paintshop height 1600 mm

paintshop length 3000 mm