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druseidt production processes and service offers in the range of metal working/manufacturing of energy distribution and customized components

1. Punching/stamping/nibbling

- Automatically production lines for busbars and copper- and aluminium components from 15 x 3 mm up to 200 x 15 mm according to the examples in our product-information 01/2008 page 12

2. Bending

- Automatically production lines for bended busbars out of copper and aluminium up to 200 x 20 mm according to the examples in our product-information 01/2008 page 13
- Bending of copper- and aluminium components in a width > 200 mm and a thickness > 20 mm in dependence of the component geometry
- Bending of thin components from 1 mm up to 3 mm thickness out of copper or bimetallic sheets in small series in dependence of the component geometry (according to the examples in our product information 01/2008 page 14)
- Automatically product line for bending copper tubes up to a outer diameter of 70 mm
- Bending of copper tubes with a outer diameter > 70 mm in dependence of the tube geometry
- Bending of profiles or rolling of bars in dependence of the component geometry

3. Milling/drilling

- Simply drilling operations on hand operated as well as automatically driven drilling-machines
- Milling operations on 3-axis or 5-axis CNC universal milling machines for components up to 600 x 850 mm and a weight of 1000 kg according to the examples in our product information 01/2008 page 17
- Milling operations on CNC gantry machines for plates up to 2600 x 700 mm and a weight of 2000 kg
- Milling operations on CNC universal machining machines with pallet changer in dependence of the component geometry

4. Turning machines

- Fully automatically up to a turning diameter of 100 mm according to the examples in our product information 01/2008 page 17

- Clamped in a collet chuck up to a turning diameter of 300 mm. Bigger turning diameters are possible when paying tool costs for collet chucks etc.

5. Welding/soldering

- Press- and diffusion welding for strip connectors according to our catalogue 2 pages 53-55
- WIG/MIG/MAG-welding of copper-, aluminium- and stainless steel parts according to the examples in our product information 01/2008 page 16 and catalogue 2 pages 56-57 up to a thickness of ca. 40 mm
- EB-welding for different components also with a thickness > 100 mm
- Hard-soldering of high current components
- Soft soldering of components

6. Press-riveting

- Press-riveting of strip-connectors and similar components according to the examples in our catalogue no. 2 page 38 or according to clients wishes

7. Pressing/defforming

- Compressing of copper conductors made out of braids or nonferrous metal components on hydraulic as well as eccentrically squeezing machines up to a press capacity of 800 tons

8. Stranding/braiding

- Manufacturing of highly flexible round stranded and braided cables and leadings out of copper-, aluminium- and stainless-steel wires in standard design according to our catalogue 2 or according to clients wishes
- Manufacturing of tubular braids for covering and shielding in standard design according to our catalogue 2 page 13 or according to clients wishes

9. Extruding

- Extruding of flexible and highly flexible leadings with PVC, silicone and TPE-U material according to our catalogue 2
- Extruding of flexible supple bars according to our catalogue 2

10. Manufacturing of water cooled high current components

- Water cooled cables according to our catalogue 2 pages 41-49 or according to client wishes

- Water cooled high current tubes coordinated with the application
- Water cooled busbars
- Water cooled components in any kind of construction consisting out of plates, bars or copper blocks, also in combination with flexible expansion parts.

11. Designing/engineering

- Technical support in case of designing high current components and solutions up to the engineering of complete high current systems
- Presentation of the solutions in the form of drawings as well as 3-D-models
- Designing of customized products and solutions for use-oriented components in special design

12. Other services

- Customer monitoring starting with the designing of the solution/product, manufacturing of samples up to the point of serial-production
- Organizing and realization of tests and measurements inside of the druseidt company as well as in cooperation with independent testing institutes when complex and extensive tests are necessary
- Realization of logistic conceptions in cooperation with the customers

13. Quality control facilities

- normal and 3D measurement of geometry shapes
- testing of chemical material composition through X-ray
- hardness testing
- tensile test
- generating of grinding surface pattern
- microscopy, analyzing of structural examinations and grinding surface pattern
- testing of electric conductivity
- measurement of electrical resistance
- pressure tests for water cooled cables