

TECHNOLOGICAL OFFER

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Ostrówek 43
98-311 Ostrówek



TECHNOLOGICAL OFFER

1. CUTTING
2. PROFILE BENDING
3. SHEET BENDING
4. WIRE BENDING
5. SHEET FORMING
6. AUTOMATIC LARGE-SERIES FORMING
7. MANUAL WELDING
8. ROBOT WELDING
9. PROTECTION OF THE SURFACE
10. MACHINING
11. TARPULIN DEPARTMENT
12. DESIGN DEPARTMENT
13. TECHNICAL DEPARTMENT
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1. CUTTING

■ 2D and 3D lasers

- Table 3000x1500 mm
- Cutting thickness up to 20 mm
- Cutting closed profiles:
 - For external dimensions from 20 x 20 mm to 225 x 225 mm
 - For lengths up to 6,200 mm from profiles up to 12,000 mm

■ Plasma cutter

- Table 3000x1500 mm
- Cutting thickness up to 50 mm

■ Automatic saws for profiles

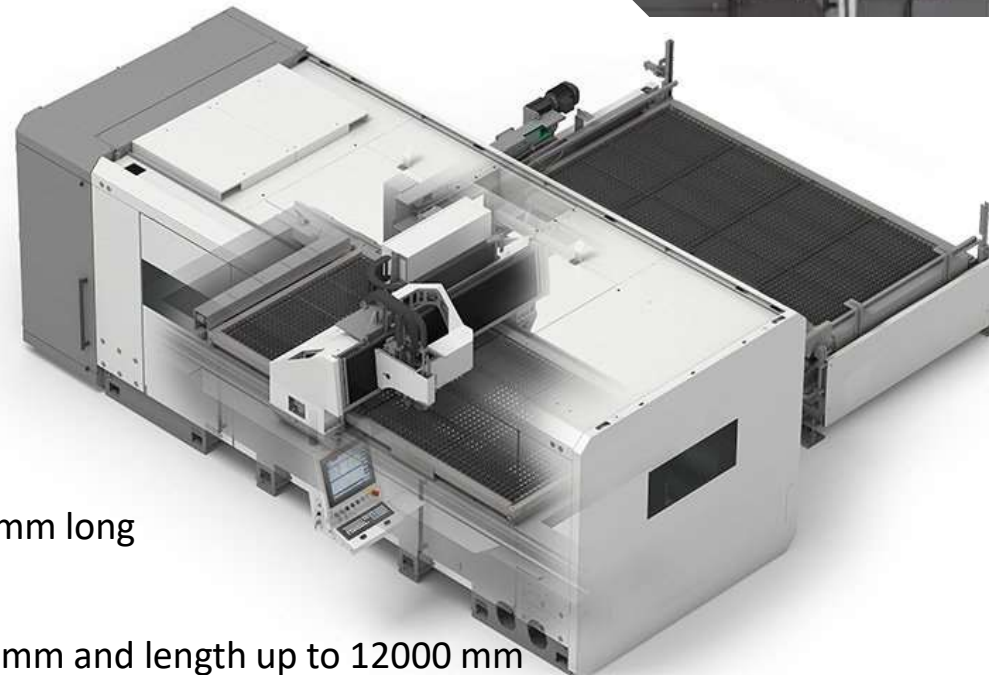
- Cutting lengths from 50 mm to 2,500 mm
- Cutting diameters from 20 mm to 60 mm

■ Guillotine

- Cutting of sheets up to 6 mm thick and up to 3000 mm long

■ Band saws

- Cutting diameter up to the outer dimension of 460 mm and length up to 12000 mm



2. PROFILE BENDING

- CNC mandrel benders
 - Tubular profiles with a diameter of up to 70 mm and a wall thickness of up to 3 mm
- Single-phase mandrel bender
 - Tubular profiles with a diameter of up to 76 mm and a wall thickness of up to 3.6 mm
- CNC rolling mill
 - Closed profiles up to the outer dimensions of 90x90 mm



3. SHEET METAL BENDING

- CNC press brake 320t
 - Bending of sheets up to 12 mm thick and bending lengths up to 3000 mm
 - Possible bending of thicker sheets on request
- Sheet metal bending machine
 - The longest element to bend 3000 mm with a thickness of 5 mm



4. WIRE BENDING

- CNC wire bending machine
 - Wire bending with a diameter of 3 mm to 10 mm
 - The possibility of producing large series



5. SHEET METAL FORMING

- Hydraulic presses
 - We have hydraulic presses with a pressure from 6t to 500t
 - Max size of forming tool up to 1000x800 mm with height up to 700 mm
- Thanks to the experienced technical department, we design and manufacture tools for forming sheets, strips and tubular profiles on our own



6. AUTOMATIC HIGH-VOLUME MOLDING

- Automatic bending machine
 - Steel strip up to 50 mm wide and 3 mm thick
 - The possibility of bending complex details in large production series



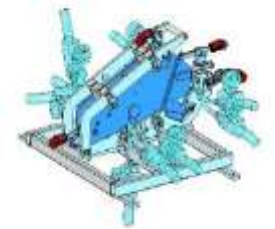
7. MANUAL WELDING

- Professionally equipped manual welding shop adapted to the production of large-size structures as well as small elements
 - Over 20 welding stations equipped with high-quality ESAB welding machines and lifting equipment
 - Welding with MIG / MAG, TIG methods
- We have the necessary certificates
 - ISO 1090-1:2009+A1:2011
 - ISO 3834-2:2007



8. ROBOTIC WELDING

- 6 robotic stations with the possibility of welding medium and large series
- Thanks to the experienced technical department, we design and manufacture welding tools on our own
- We have the necessary certificates
 - ISO 1090-1:2009+A1:2011
 - ISO 3834-2:2007



9. SURFACE PROTECTION

- Shot blasting chamber
 - Possibility of shot-blasting of structures with dimensions up to 9000x3000x1500 mm
 - The possibility of obtaining surface preparation of SA 3 quality
- Drum shot-blasting machine
 - Possibility of shot blasting of details with dimensions up to 700x150x100 mm
- Sandblasting chamber
 - Possibility of sandblasting details up to dimensions 800x400x400 mm
- Thermodiffusion galvanizing furnaces
 - Elements that fit in a furnace with a diameter of 450 mm and a length of 2000 mm
 - The permissible batch weight is 400 kg
- Hardening furnace
 - Hardening up to 1200 ° C
 - Chamber size 300x200x400 mm



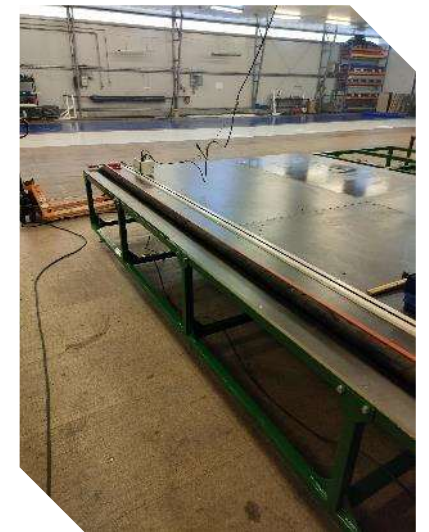
10. MACHINING

- CNC milling machining centers
 - The size of the tables up to 1200x750 mm
- Conventional Milling Machines
 - The size of tables up to 800x600 mm
- CNC lathes
 - Maximum machining length 800 mm
- Conventional lathes
 - Maximum machining length 1500 mm
- Electric discharge cutter
 - Details with dimensions up to 500x350 mm
 - Possibility to cut details up to 280 mm thick



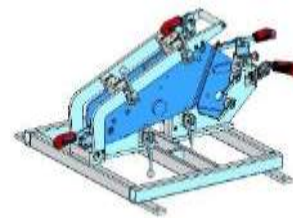
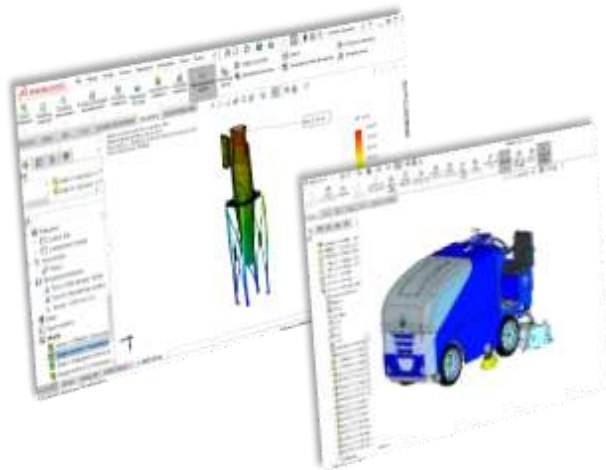
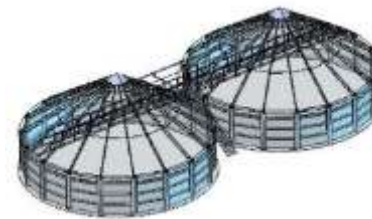
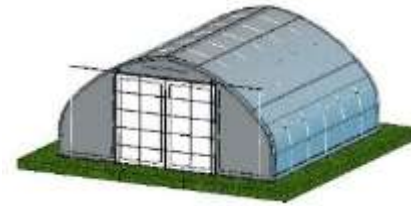
11. TARPAULIN DEPARTMENT

- Production of tarpaulins
 - Tarpaulins up to 15,000x24,000 mm
 - Production of combined tarpaulins with a width of 24,000 mm and unlimited length
 - Prints made with vulcanizing paint in any color



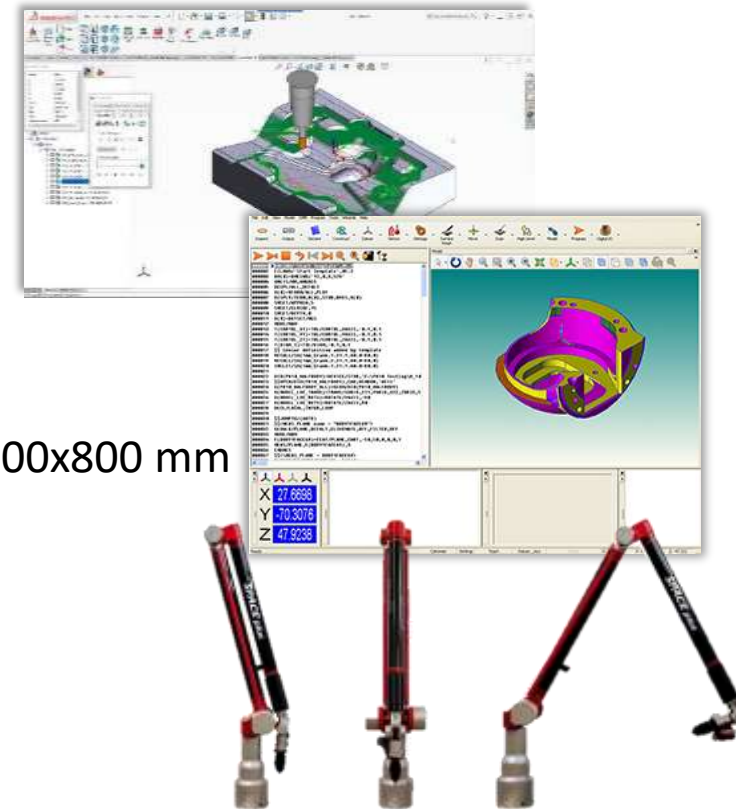
12. DESIGN DEPARTMENT

- Design department
 - CAD software: SolidWorks, AutoCAD
 - MES software
 - Flow analysis software



13. TECHNICAL DEPARTMENT

- Technology Department
 - CAM software SolidCAM
- Control and Measurement Department
 - Coordinate measuring machine with a range of 1000x1000x800 mm
 - Measuring arm with a range of 800x800x1000 mm
 - Salt chamber for testing anti-corrosion protection
 - Equipment for testing paint surfaces
 - Weld quality tests



14. CERTYFIKATY

- ZM Progress Leszek Sawicki plant certificates:
 - ISO 9001:2015
 - ISO 1090-1:2009+A1:2011
 - ISO 3834-2:2007

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