



List of machines and technologies of SLOKOV kovo a.s.

Welding shop:

- Panasonic TL-2000WG3 welding robot
- MIG/MAG welding machines KÜHTREIBER KIT405 and KÜHTREIBER KIT500
- Welding machine FRONIUS TS
- Spot welder JESVA

Preparation of material:

- Press brake AMADA HFE M2 8025
- HACO OMATIC 130 DTRH punching machine
- VANAD PROXIMA cutting machine + POWERCUT 1250 plasma source
- Cutting machine INTERCUT M2 + plasma source FORMICA ForCUT 75
- Guillotine shears HACO HSLX 3008
- Šmeral sheet bending machine
- Šmeral 160t eccentric press
- Šmeral 100t eccentric presses
- Šmeral 63t eccentric press
- Šmeral 40t eccentric press
- Band saw, circular saw,...

Others:

- Boiler test room
- Paint shop,...

PANASONIC TL-2000WG3 WELDING ROBOT

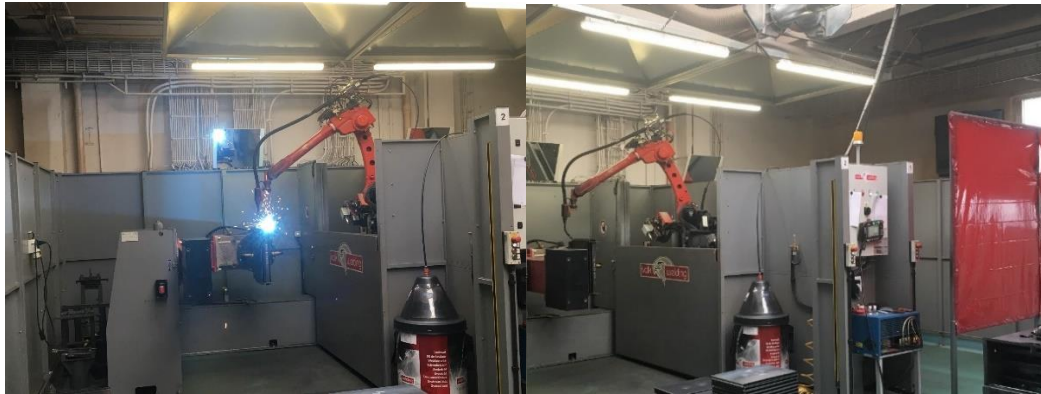
Machine Description:

It is a state-of-the-art welding robot with collision detection, which is software controlled so that the desired collision avoidance can be set at 6 sensitivity levels. The robot incorporates an automatic calibration system which allows it to return to its original position with an accuracy of 0.005 degrees when the batteries are low. The control system supplied by Panasonic allows the robot to be programmed online and offline (the process can be simulated on a computer outside the robot).

One great advantage is the possibility to change the welding parameters during the process without having to switch off the robot. The torch is water-cooled, with a load capacity of 500 A. The torch has its own straightening jig and mechanical cleaning unit. The wire feeder is driven by a digital servo motor. To correct position inaccuracy, the welding torch is equipped with a touch sensor on the welding nozzle and also a touch sensor using the welding wire. Access to the work area is protected by light barriers.

<i>Parameter</i>	<i>Value</i>
Dimensions	
Weight of robot	216 kg
Robot reach	1999 mm
Minimum reach	491 mm
Number of controlled axes	6
Maximum load capacity	6 kg
Height of workplace	2205 (without robot) mm
Width of workplace	4565 mm
Length of workplace	6600 mm
Number of positioners	2
Load bearing capacity of positioners	1000 kg /500 kg
Accuracy	
Repeatable position accuracy	±0.15
Programming software	DTPS G2/ G3
Tools	
Welding source	TAWERS WG/ WGH
Wire feeder	pneumatic
Torch cleaning	BRG 2000
Torch	VWP-R 500

Other parameters	
Welding current	30-350 A
Welding voltage	12-36 V
Welding modes	Short circuit, Pulse, SP-MAG, Hipper Dip Pulse



PRESS BRAKE AMADA HFE M2 8025

Machine Description:

The AMADA HFE M2 8025 is a machine designed for bending sheets of various thicknesses. It is a modern hydraulic press that meets the most modern parameters required for precise bending. The machine has a modern control touch panel and the possibility of connection to the company network. Corrections can be set on the machine to make the production as accurate as possible and the repeatability of the production run as high as possible. Bend settings are made in a clear 2D environment with a large library of tools and materials.

Parameter	Value
Dimensions	
Weight	5.6 t
Bending length	2570 mm
Bending force	800 kN
Maximum sheet thickness	8 mm (steel)
Machine height	2540 mm

Machine width	2580 mm
Machine length	3950 mm
Speeds	
Working speeds	1-10 mm/s
Approach speeds	100 mm/s
Accuracy	
Control system	AB Pad
Number of controlled axes	4
Tools	
Angle control	DIGIPRO equipment
Tool change	manual
Stroke	200 mm



HACO OMATIC 130 DTRH PUNCHING MACHINE

Machine Description:

The HACO OMATIC 130 DTRH punching machine is used for punching shapes and holes of various dimensions. The machine is operated by one worker who changes tools according to the program requirements and inserts the sheet metal on the work surface.

The tools used are punches and dies stored in the rotating turret. The programming of the punching programs is performed on a computer using software supplied by HACO. The machine has modern safety features - light barriers and central stop.

<i>Parameter</i>	<i>Value</i>
Dimensions	
Weight	8.7 t
Working area (X x Y)	1500 x 1250 mm
Maximum sheet weight	100 kg
Maximum sheet thickness	6.5 mm
Machine height	2500 mm
Machine width	3200 mm
Machine length	3400 mm
Load bearing table height	1000 mm
Speeds	
X axis	64 m/min
Y axis	64 m/min
Accuracy	
Programming	0.01 mm
Positioning	0.1 mm
Tools	
Max. diameter/diagonal	70 mm
Tool change	manual
Number of clamps	3



HACO HSLX 3008 HYDRAULIC SHEARS

Machine Description:

The HACO SLX 3008 hydraulic guillotine shears is a machine designed for cutting sheet metal with a thickness of 4-8 mm, depending on the type of material. The shears are driven by a hydraulic power unit, but the feeding of the sheets and the cutting is performed by the operator. Precise, burr-free cut edges are produced, and high repeatability can be ensured thanks to the back stops.

<i>Parameter</i>	<i>Value</i>
Dimensions	
Weight	5.6 t
Shear length	3050
Shear angle	0.5 – 3°
Maximum sheet thickness	4-8 mm (steel)
Machine height	1850 mm
Machine width	3120 mm
Machine length	4050 mm
Speeds	
Number of cuts per minute	35-50



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