



katalog pdf.



COOPERATION





KOOPERACE

ENGINEERING

PER CUSTOMER
SPECIFICATIONS



ABOUT THE COMPANY

Since its foundation in 1994, DAVON s.r.o. has always been a privately owned Czech company that focuses on the development of its own specialised products for the building and mining industries. First a comprehensive range of hydraulic grabs was developed, followed by a wide range of stationary rockbreaker boom systems, which have gone on to constitute the company's main export today. A comprehensive line of buckets for excavators and loaders was created later. Several single-purpose construction machines were also built according to particular customer requirements. State-of-the-art hardware and software is used for the development of our products. A standardised information system is used for the management of the whole company, from pre-production to dispatch and subsequent warranty and post-warranty servicing.

CERTIFIED PRODUCTION

The company deployed a comprehensive quality management system per the ČSN EN ISO 9001 standard in 2003, gaining certification the following year. The company gained the ČSN EN ISO 3834-2 welding certification in 2012. DAVON also implements management systems compliant with the ČSN EN ISO 14001 environmental management, ČSN OHSAS 18001 occupational health and safety management and ČSN ISO 50001 energy management standards.

All with the objective of meeting the ever-growing demands of our customers and to supply quality, reliable and safe products characterised by a combination of excellent performance and ease of operation.



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COMPANY BRANDS



RK ROCKBREAKER BOOM SYSTEM

For crushing lines in quarries.



GRABS

Grabs in a broad variety of types, variants and sizes.



BUCKETS

Production and sales of all types of buckets for nearly all types of construction machinery.



SPECIAL CONSTRUCTION MACHINERY

One-off and custom special construction and mining machinery.



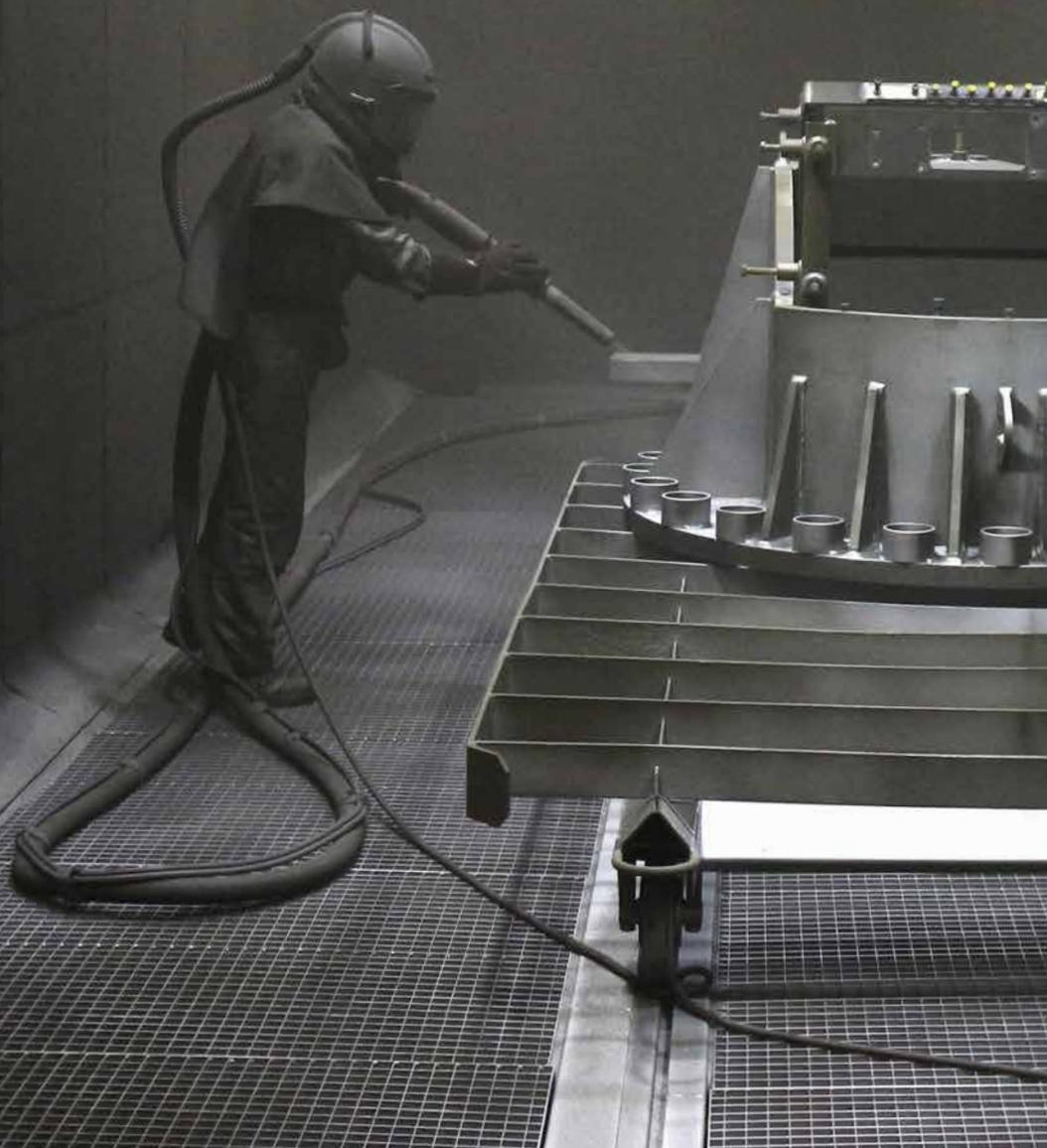
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Custom-designed machinery produced to meet specific customer needs.

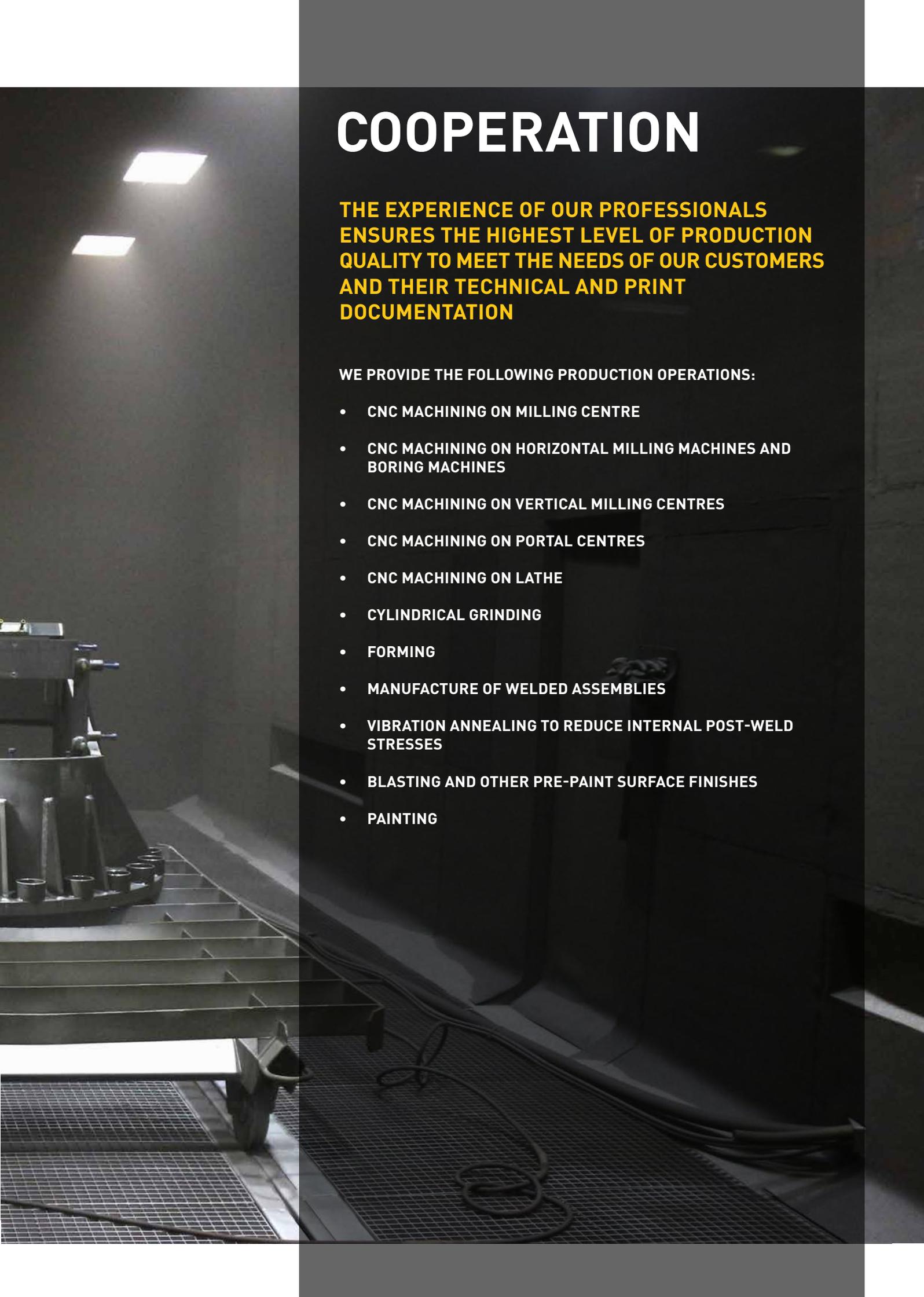


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COOPERATION

THE EXPERIENCE OF OUR PROFESSIONALS ENSURES THE HIGHEST LEVEL OF PRODUCTION QUALITY TO MEET THE NEEDS OF OUR CUSTOMERS AND THEIR TECHNICAL AND PRINT DOCUMENTATION

WE PROVIDE THE FOLLOWING PRODUCTION OPERATIONS:

- **CNC MACHINING ON MILLING CENTRE**
- **CNC MACHINING ON HORIZONTAL MILLING MACHINES AND BORING MACHINES**
- **CNC MACHINING ON VERTICAL MILLING CENTRES**
- **CNC MACHINING ON PORTAL CENTRES**
- **CNC MACHINING ON LATHE**
- **CYLINDRICAL GRINDING**
- **FORMING**
- **MANUFACTURE OF WELDED ASSEMBLIES**
- **VIBRATION ANNEALING TO REDUCE INTERNAL POST-WELD STRESSES**
- **BLASTING AND OTHER PRE-PAINT SURFACE FINISHES**
- **PAINTING**

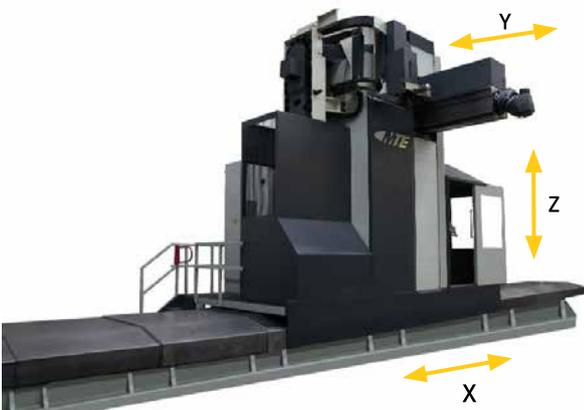


MACHINE: FBF-M 9000
MANUFACTURER: MTE Machine Tool Engineering S.A., Spain

The CNC Milling machine with turning table and high rigidity enables precise high-speed machining. It offers five-sided machining performed by automatic milling head with revolutions up to 4000 rpm. It is equipped with a tool changer for up to 60 tools and with the Heidenhain TNC 640 CNC control system.



Description	
Parameters	Values
X – longitudinal travel	9000 mm
Y – transverse travel	1500 mm
Z – vertical travel	3000 mm
Max. weight of workpiece	16 t
The Heidenhain spindle motor power	32 kW
Dimensions of the turning table with working plate	2500 x 2000 mm
Dimensions of the plate field STOLLE	3000 x 2500 x 300 mm





MACHINE: WFT 13 CNC
MANUFACTURER: FERMAT CZ s.r.o.

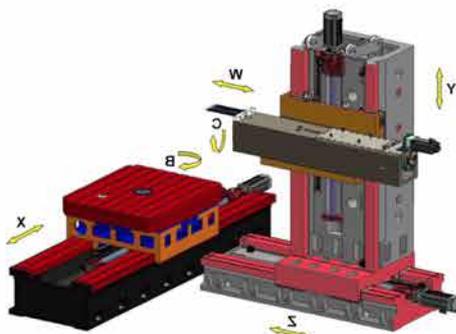
Universal continuously controlled horizontal milling and boring machine WFT 13 CNC in a modern design. The WFT 13 enables effective machining of large and heavy workpieces while maintaining high accuracy and surface quality.

The WFT 13 CNC provides six controlled axes - four linear (X, Y, Z, and W) and two rotating (B and C). The machine provides the option of simultaneous continuous machining on all axes, i.e., simultaneous control on the X, Y, Z, W-axes together with smooth rotation of the table on the B-axis (contouring).

During machining, the stand moves longitudinally along the Z-axis on the slide guide, the rotary table with the workpiece moves transversely on the base of the X-axis, and the headstock moves vertically along the Y-axis on the stand.



Description	
Parameters	Values
X - Longitudinal table travel:	5000 mm
Y - Vertical headstock travel:	2500 mm
Z - Transverse stand travel:	2000 mm
W - Protrusion of the working spindle:	730 mm
Max. weight of workpiece	20 t
S1 / S6 spindle motor power	20/30 kW Heidenhain





MACHINE: SF 3120 CNC + universal milling head C50-4A
MANUFACTURER: Vision Wide Tech Co., Ltd.

The gantry centre of the SF series is CNC equipment designed particularly for milling, drilling, and threading. It is a three-axis (X, Y, Z-axes) centre offering powerful high-speed machining of parts weighing up to 10 tons. If the milling head is installed (with manual exchange from the rotary pick-up), it becomes a 5-axis centre (B, C-axes).

The tool comes as standard with an automatic tool magazine (for up to 32 tools) and is equipped with a HEIDENHAIN iTNC 530 CNC control system. This highly productive tool is designed for high cutting performance with a broad range of technical applications, characterised by reliability and ease of use.



Description	
Parameters	Values
X-axis (linear guide)	3100 mm
Y-axis (linear guide)	2000 mm
Z-axis (slide guide)	1020 mm
Pass between the stands	2100 mm

Description of the C50-4A	
Parameters	Values
Taper	ISO-50
Max. tool diameter	200 mm
Max. power	42 kW
Max. speed	1200 RPM

Work table	
Parameters	Values
Length	3000 mm
Width	1800 mm
Bearing capacity of the table	10 000 kg
S1/S6 headstock motor power	24/30kW



MACHINE: VMA-3100 CNC Challenger
MANUFACTURER: Buffalo Machinery Co. Ltd

The VMA-3100 CNC machining centre is a high-performance three-axis boring and milling centre enabling high-productivity and accurate drilling, boring, core-drilling, reaming, and direct threading. The machine is equipped with a magazine holding 32 or 40 individual tools for quick changeovers. Its advantages include high speed of the spindle, large size of the work table, and doors on the side covers enabling the machining of work pieces longer than the table length.

It is also characterized by its unusual travel lengths on the axes, particularly the Y-axis, high rigidity of the machine, and the performance of the spindle driven by the servomotor. It is very economical in high production volumes, but these centres also allow you to shorten the production cycle, increase production efficiency, reduce production costs, and achieve satisfactory economic performance and the required quality in low/medium production capacity.

Description	
Parameters	Values
Table dimensions	3 400 x 900 mm
Bearing capacity of the table	3 200 kg
X-axis	3 100 mm
Y-axis	900 mm
Z-axis	850 mm
S1 / S6 spindle motor power	20/30 kW Heidenhain



MACHINE: PUMA GT 2600XLA
MANUFACTURER: DOOSAN, South Korea

High-performance and precise horizontal CNC lathe for machining of the rotary parts up to 520 kg.



Description	
Parameters	Value
Number of axis	2
Swing diameter above the base	630 mm
Max. diameter of turning	460 mm
Max. length of turning	1 603 mm
Max. diameter of the machined workpiece	81 mm
The chuck diameter	255 mm
Revolutions	3 500 rpm



MACHINE: BERNARDO URS 1500 N
MANUFACTURER: PWA Handelsges.m.b.H., Austria

The universal cylindrical grinding machine Bernardo URS 1500 N for round grinding provides high precision and quality of ground surface, which is ensured by hydrodynamic bearing of the main spindle. It enables precise grinding of internal and external surfaces, cylindrical, conical and other shapes.



Description	
Parameters	Value
Max. length of grinding	1 500 mm
Outer diameter of grinding	8 to 320 mm
Inner diameter of grinding	30 to 100 mm
Max. depth of grinding	125 mm
Max. weight of workpiece	150 kg



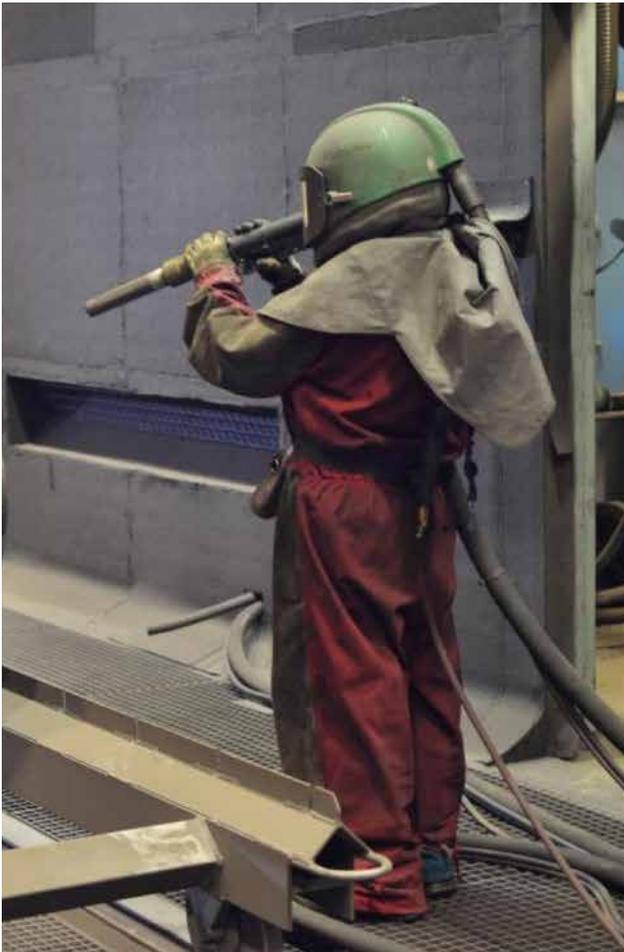
**MACHINE: AD_R 40220****MANUFACTURER: Durmazlar Makina San A.Ş.**

The AD-R press brake has 4 CNC-controlled axes: Y1, Y2 – positioning of the hammer, X – positioning of the rear stop, R – height adjustment of the rear stop dogs). After entering the basic parameters of the product (material type and thickness, dimensions and the required angles), the system automatically suggests the sequence of bends, positions all the control axes and the rear stop bounce, and sets the needed pressing force.

The graphic product library enables you to save and retrieve programmed products at any time. The graphic library of top and bottom tools speeds up work with the press when using various tools.

- 2D control system CNC Advantage communicating in Czech. The essence of the system is 3-axis control - Y1-Y2 (ram synchronisation) and X (rear stop travel).
- Rear stop ball screws.
- Optoelectronic barrier of the working space - Fiessler AKAS.
- Movable console with the control panel.
- Euro-type system of tool clamping (Amada/Promecam).
- Ground and hardened Roller tools along the entire working length. The lower die has multiple grooves.
- Two front slide supports with a T-groove and front stop.
- Portable control stand.
- The machine is equipped with an alphanumeric control system enabling a 2D preview of the programmed product.

Description	
Parameters	Values
Pressing force	220 t
Working length	4 050 mm
Pass between the sideboards	3 600 mm
Approach speed	120 mm/sec
Bending speed	10 mm/sec
Speed on the X-axis	500 mm/sec
Lift	265 mm
Opening in the sideboards	410 mm



DESCRIPTION

Abrasive blasting of surfaces of steel parts is performed manually in the blasting booth.

The abrasive used is GL80 steel grit.

Blasting booth dimensions	
Parameters	Values
Length	12,00 m
Width	4,50 m
Height	4,00 m
Gate width	4,20 m
Gate height	3,00 m

Blasted part dimensions	
Parameters	Values
Length	10,00 m
Width	3,00 m
Height	2,50 m





DESCRIPTION

Painting of the surfaces of steel parts with coatings in the painting and drying booth. Most often we paint using polyurethane, epoxy, acrylate, and other coatings.

Painting and drying booth dimensions	
Parameters	Values
Length	12,00 m
Width	3,80 m
Height	3,15 m
Gate width	3,11 m
Gate height	3,11 m

Maximum dimensions of painted part	
Parameters	Values
Length	10, 00 m
Width	2, 30 m
Height	1, 90 m





MACHINE: Inverter welding system MIG/MAG
MANUFACTURER: FRONIUS Česká republika s.r.o.

This semi-automatic MIG/MAG welding machine has unique welding modes to create perfect welds when using manual techniques to fabricate welded parts. The welding is performed using the MIG/MAG method with unique welding modes to create perfect welds.

Max. weight of welded parts: 16 t





MACHINE: VZ4
MANUFACTURER: PRVÁ ZVÁRAČSKÁ, a.s.

Vibration annealing is an alternative to heat treatment of products by annealing. It removes the residual stress in welded, cast, or forged components and thus ensures the required dimensional stability.

The works can be performed at the customer's site.



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C.M.K. STEEL s.r.o.
CELPAP Machinery s.r.o.
ČEZ Energioservis spol. s.r.o.
ČKD Blansko Small Hydro spol. s.r.o.
DT Mostárna a.s.
Eficient Energy Technology s.r.o.
Excalibur Army spol. s.r.o.
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