

MicroStep®

spol. s r.o.



DS

- DS is specially designed for high-efficiency drilling and cutting purposes, it can be also applied as enhancement of the features of a standard CNC cutting machine by automatic plate feeding and a possibility of automatic part sorting on output
- The machine is of a massive welded construction made from steel profiles
- Wide range of optional accessories offers combination of various technologies
- Automatic loading system consisting of in-feed chain conveyors
- Automatic clamping of the material is provided by hydraulic grippers with integrated material thickness sensors
- High efficiency extraction system evacuates fumes during cutting
- Drilling spindle with automatic tool change
- Automated, through tool colling for optimal lubrication of the drilling process
- Tilttable grate ensures sliding of the parts with max. dimension 500 x 500 mm to the output conveyor
- Automated part sorting system can be designed according to application
- After processing, finished parts slide to a sideways output conveyor while the waste material is being pushed further to the output roller track
- The machine is fully CNC-controlled with possibility of sectional control of particular machine areas





DS



Easy to operate

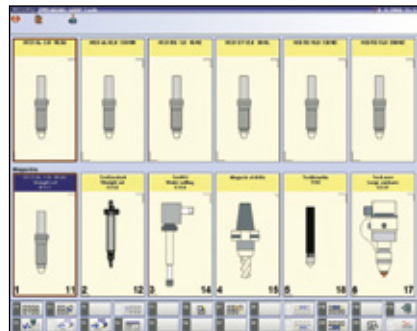
MicroStep iMSNC[®] is one of the most advanced control systems in CNC cutting machinery. The system provides easy, user friendly and thus reliable operation of cutting machines via modern user interfaces: a standalone operator console with TFT touch screen and one or two control panels with LCD displays on the sides of the gantry. To achieve maximum utilization and flexibility of machine operation, a standalone operator console offers the possibility to prepare and edit cutting plans simultaneously with the cutting process. Since the machine, control system iMSNC[®] and CAM software AsperWin[®] are from one producer – MicroStep – it allows to implement also non-standard requests and develop custom solutions.



- Integrated database of tool parameters
- Multi-tool operation
- Automatic assignment of tool parameters to processed material
- Full network connectivity
- Remote diagnostics and assistance
- Parametrical dynamic piercing
- Zone management with batch cutting
- Monitoring of consumable life
- Advanced servicing software tools

Intranet applications

Intranet applications enable comfortable integration of the machine into production workflow and provide access to the machine via SQL databases and web services. MicroStep iMSNC[®] includes a novel web-based interface for accessing each machine from the company intranet via a web browser. Each machine has its own home page which serves as a gateway for intranet applications.



MicroStep Production Management (MPM) – adds computer-aided process planning (CAPP) capabilities to MicroStep solutions. An integrated system of order processing, nesting, stock control, machine operation planning and evaluation helps to reduce work-in-progress, to save material, and to eliminate operator errors.

Ekolno – evaluation of machine operation costs for a particular cutting program.

Machine Info – monitoring of machine and operator activities that enables to assign performance information to work shifts and to create specific technological records.

OPTIONAL ACCESSORIES



Plasma



Plasma rotator



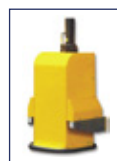
Tilting tool station



Drilling unit



Oxyfuel



Inkjet



MicroPunch



Laser pointer



CCD camera

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Technical parameters*

Max. dimension of the plate	6 000 x 2 000 mm
Min dimension of the plate	3 000 x 500 mm
Thickness of the material	6 – 40 mm
Max. hole diameter – drilling	50 mm
Positioning speed	up to 30 m/min
Control system	MicroStep iMSNC [®]
Type of the guides in X direction	linear guidelines
Type of the guides in Y direction	linear guidelines

* depends on the machine configuration .

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spol. s r.o.

MicroStep spol. s r.o. tel.: +421 2 32 27 72 00
 Vajnorská 158 fax: +421 2 32 27 70 01
 831 04 Bratislava www.microstep.eu
 Slovakia e-mail: marketing@microstep.sk



www.microstep.eu