

SPARQ-PRO



Advanced grinding, it's what a grinder should be...

Erosion Grinding Machine for PCD Tools
6-Axis Full CNC Control
With POWERGRIP[®] System

The flexible, profitable solution

High technology to lead the ever-changing world of tool processing.

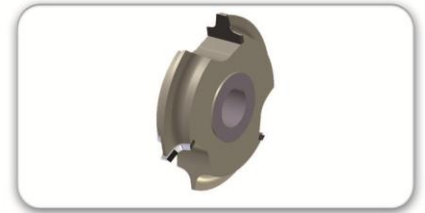
SPARQ-PRO, is designed to produce and service PCD cutters .Erosion process is completed in one set-up by means of integral measuring system, in order to achieve high precision and quality, machine main body is produced as single composite monoblock system. Mainly 3 type of tools can be processed by SPARQ-PRO;



Circular Saws, Hoggers and Cutters

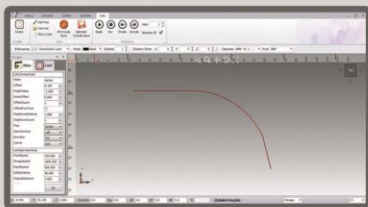


Helical cutters and router bits



Profile knives and moulders

A versatile response to meet all demands...



Optional ABM DrawWorks[®]
CAD-CAM software for profiled tools.



Operator friendly ABM-interface for ease of use.
Positioning display of all 5 axes.

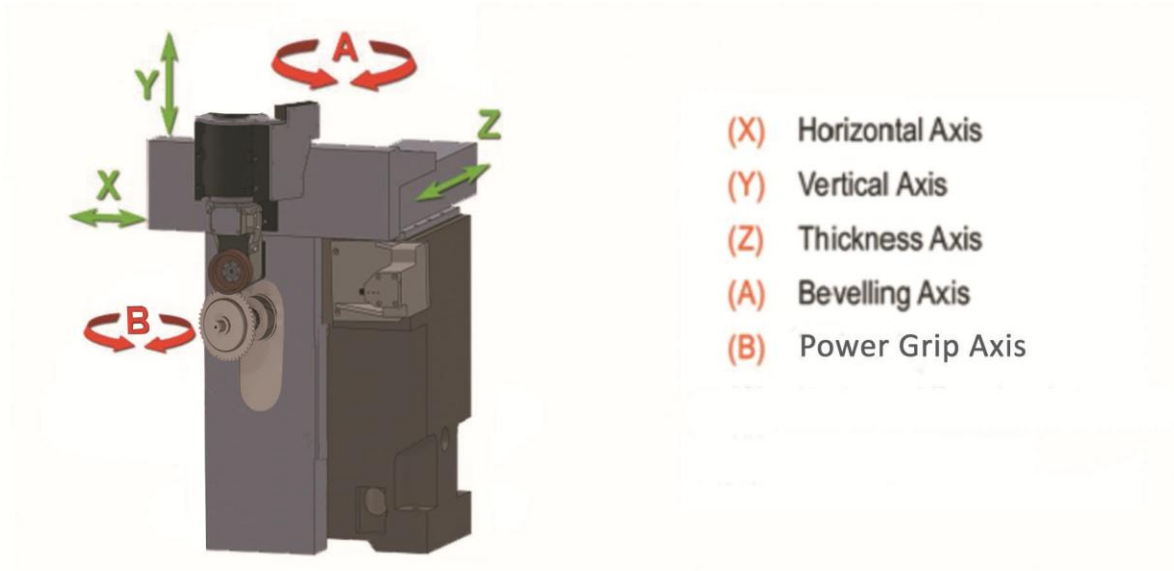


Rapid tool compensation by integral
measuring system and wheel dressing unit.

General Features

- 5 axes full CNC control, direct spindle system by additional 6th servo motor.
- Special plating on mechanical components ensure non-corroding and hardening.
- Integral measuring system for complex tool defining.
- Unique interfaces for tool production and service.
- 15" LCD display and operating interface in any stated language.
- Composite monoblock body ensures high rigidity and excellent surface quality.
- Rapid tool compensating by integral wheel dressing system.
- Wide capacity design to process common type of diamond tools.
- High volume and pressure of coolant to ensure the best condition for eroding process.
- Smart servo motors without requirement of calibration and referencing.
- Precise ISO 40 system motor controlled dividing head.
- Central lubrication system.
- Windows based PC control enables update over internet or by flash drive.
- Generator specially designed by ABM.
- Open software philosophy ensuring unlimited programming ability.
- Robust based constructed in ergonomic cabin.
- Production conformed with CE standards.

At ABM, we develop our machines, our own electronic systems and application software and manufacture all main mechanical components. Finally, we assemble and test the final product to global machine standards. Whichever ABM machine you choose for your grinding, you will know that it is built to meet the all market demands.



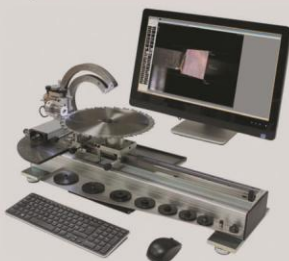
The true innovation is the product of experience and dynamics...



Aerosol type fire extinguisher system



Central automatic lubrication system, optional coolant micro filtration system and optional air filtration system.



Optional Micro TECH[®] measuring machine

Technical Specifications

- Tool Outer Diameter Maximum Ø800mm
- Holder Type ISO 40
- Tool Weight Maximum 20 kg
- Grinding length Maximum 150mm
- Grinding Angle 360°
- Beveling Angle 360°
- Wheel Diameter Ø125/150mm
- Wheel bore diameter Ø60mm
- Coolant motor capacity ~120 lt/min.
- Coolant container capacity ~200 lt
- Air supply Minimum 6 Bars
- Total Power ~7.5kW
- Net/Gross Weight 3250/3400 kg
- Dimensions 260*210*240 cm