



Overview of the software modules of Alphamoduli

Alphamoduli

The shop floor software for all processes in tool and mould construction.

Alphamoduli provides numerous individual modules. All processes for the linking and display of every individual process step in your workshop are illustrated. You therefore have the freedom to select each individual module and to use it as your business requires. Every module can be individually customised and extended at a later date.

Low costs: You only pay for what you really need

Step by step you select your modules and extend them to suit the technology or process. In this way you invest only in solutions you really need at the time of investment. Further extension is possible at any later time. So you improve as much as necessary in your business, and at the lowest possible cost.

Quality with reliability.

We develop not only individual components to the highest quality, but also ensure that they work together in the most efficient way. Technologically innovative, with the best results that you can expect from your investment.

- 1 Chameleon / genius 700 changing procedure and illustration of the axis movements
- 2 Terminal with portable operating panel
- 3 Machine without casing



ZK
simply genius

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Product overview

genius EDM Systems

Chameleon handling systems

Alphamoduli software solutions

Product overview

genius EDM systems
Chameleon handling systems
Alphamoduli software solutions

We have consistently developed our tradition as a manufacturer of high-precision cavity sinking EDM machines, and expanded into a modern company with three core competencies:
genius EDM systems –
Chameleon handling systems –
Alphamoduli software solutions.

We therefore offer our customers all over the world process solutions in the field of eroding, automated handling and software for tool and mould construction. Our cross-process automation products are considered the leaders in the market. We employ our outstanding expertise world-

wide to reliably combining the technologies of HSC milling, measuring, cleaning and eroding with individual solutions.

genius EDM systems

With our EDM machines, we offer you a wide range of different table sizes and designs. All our machines feature: maximum precision, speed and good machining results in graphite, copper and carbide. This is ensured by the *genius* generator control with the improved *magic*³ technology.

Machine data

Travel distance X - Y / Z
Table: Length x width
Distance: Table - sleeve w/o chuck max./min.
Dielectric fluid above table
Overall dimensions (WxDxH)
Total weight (w/o fluids)

genius 602*

350 x 250 mm / 315 mm
576 x 400 mm
550/240 mm
(optional 615/305 mm)
365 mm
900 x 1,680 x 2,540 mm
2,000 kg

genius 700

400 x 350 mm / 350 mm
575 x 500 mm
550/200 mm
420 mm
1,213 x 2,326 x 2,530 mm
3,200 kg

genius 850

570 x 400 mm / 410 mm
840 x 600 mm
595/180 mm
(optional 660/245 mm)
360 mm
1,110 x 1,840 x 2,780 mm
2,750 kg

The Cube – genius 1000

700 x 500 mm / 500 mm
900 x 700 mm
650/150 mm
500 mm
1,650 x 3,064 x 3,050 / 1,825 mm
6,500 kg

genius 1200

900 x 680 mm / 405 mm
1,200 x 850 mm
650/235 mm
(optional 750/325 mm)
410 mm
1,540 x 1,520 x 2,710 mm
3,700 kg

* Our *genius* 602 is also available in the "nano" version. Specially designed for micro-machining – resolution 0.0001 mm

Alphamoduli software solutions

Our software solutions stand out for their modularity and process reliability. You can choose your modules step by step according to your needs. They are proven in daily practice and make allowance for gradual extension. In small and medium-sized businesses of tool and mould construction in particular, they enable you the breakthrough into automated processes.



Chameleon handling systems

For each step of the investment, we offer you the appropriate changer. Starting from the simple plate changer up to the fully automated handling system. Our handling systems are specially designed for the handling of electrodes, workpieces and cutting tools and can therefore be used with different technologies.



16-fold plate changer

Electrode changer suitable for all conventional clamping systems. Overload and collision protection. Not suitable for the *genius* 700.



24-fold plate changer

Electrode changer in plate design suitable for all conventional clamping systems. Fully adjustable, overload and collision protection. Electrode identification via RFID chip.



50-fold plate changer

Electrode changer in plate design suitable for all conventional clamping systems. Fully adjustable, overload and collision protection. Electrode identification via RFID chip.



Chameleon handling systems

The fully automated handling system, which enables the reliable mounting of different machines (e.g., HSC, measuring, wire cutting machines). Across systems, reliable, fast, and fault-free.



Articulated robot

You can find out more about *Chameleon* in our catalogue "handling systems" or at: www.zk-system.com



Transclean

Automatic cleaning station for tools, workpieces and electrodes

This station can be used both in automated cells as well as in stand-alone operation.

Dimensions (W x D x H)	1,540 x 1,000 x 2,400 mm
Weight	1,200 kg
Output	6 kW / 400 Volt
Waste tank	170 l
Chip basket	2,3 l
Filling capacity of cleaning fluid	180 l
Pallet size (max.)	600x400x300 mm (x, y, z)
Pallet weight (max.)	250 kg
Clamping systems	Partool: Power-Grip Erowa: ITS, UPC, PowerChuck 3R: Makro, Dynafix