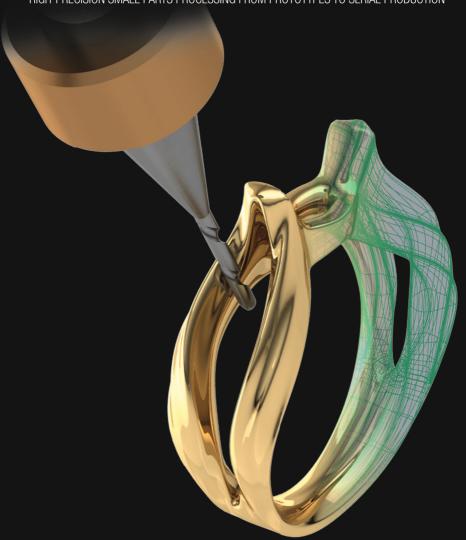




PRODUCTION SYSTEMS FOR JEWELERY AND SMALL PARTS

HIGH-PRECISION SMALL PARTS PROCESSING FROM PROTOTYPES TO SERIAL PRODUCTION



COMPAC 350 LOADER

























5-AXIS TABLE MACHINE

FOR PRECISE SMALL PART PROCESSING

Due to its modern design with precise EC servo technology, the COMPAC 350 is particularly suitable for processing fine mechanical parts and complex parts. Wet and dry processing are possible thanks to the integrated cooling circuit.

Entry-level fully-automated processing and therefore also serial production is also possible with an optional material changer.

OPTIONS

- Suction unit
- Expandable with automated material changer

MATERIALS

Gold, silver, titanium, plastics, pearl, wood, wax, ceramics, graphite, aluminum, granite, copper, brass, stainless steel, steel, jade, peek, onyx and many more





TECHNICAL SPECIFICATIONS	
Number of axles and machining type	5-axis simultaneous machining
Max. axis tilt angle	A-axis: endless / B -25° up to B+90°
Wet processing	Integrated
Maximum speed / Pmax~	60.000 U/min / 1 kW
Axle drives	Servo motors with encoder resolution of 0.5 µm
Tool fitting	3 mm or 6 mm shaft
Tool changer	20-times with chip protection cover
Workpiece changer	350: Manual (zero point clamping system optional) 350 Loader: 6-times fully automatic (up to 12-times optional)
Weight	350: 180 kg / 350 Loader: 225 kg
Width x depth x height	350: 758x790x857 mm 350 Loader: 1058x790x857 mm
Supply voltage / frequency / power	100 V-240 V / 50/60 Hz / 2200 W
Compressed air supply	6-9 bar constant supply, 60 liters/minute

COMPAC 350 PRO COMPAC 350 PRO LOADER























PROFESSIONAL SOLUTION

FOR HIGHEST DEMANDS

The high-definition dynamic servo motors with absolute measuring systems increase processing speed by up to 20 % while maintaining optimum precision. This makes the Compac 350 PRO suitable for the highest demands of a dental lab or milling center in a very compact design.

The Compac 350 Loader PRO is also equipped with a fully automatic blank changer (for up to 12 blanks).

OPTIONS

- Suction unit
- Expandable with automated material changer

MATERIALS

Gold, silver, titanium, plastics, pearl, wood, wax, ceramics, graphite, aluminum, granite, copper, brass, stainless steel, steel, jade, peek, onyx and many more





TECHNICAL SPECIFICATIONS Number of axles and machining type	5-axis simultaneous machining
Max. axis tilt angle	A-axis: endless / B -25° up to B+90°
Wet processing	Integrated
Maximum speed / Pmax~	60.000 U/min / 1 kW
Axle drives	Servo motors with encoder resolution of 0.5 µm
Tool fitting	3 mm or 6 mm shaft
Tool changer	20-times with chip protection cover
Workpiece changer	350 PRO: Manual (zero point clamping system optional) 350 PRO Loader: 6-times fully automatic (up to 12-times optional)
Weight	350 PRO: 180 kg / 350 Loader: 225 kg
Width x depth x height	350 PRO: 758x790x857 mm 350 PRO Loader: 1058x790x857 mm
Supply voltage / frequency / power	100 V-240 V / 50/60 Hz / 2200 W
Compressed air supply	6-9 bar constant supply, 60 liters/minute

PREMIUM 1010 MICRO PREMIUM 1010 MICRO Laoder



HIGH-PRECISION 5-AXIS MICROPROCESSING

WITH OPTIONAL AUTOMATION FOR ALMOST EVERY MATERIAL!

The PREMIUM 1010 micro precision machine is predestined for manufacturing small parts as individual or series parts. The 5-axis HSC milling system has the additional option of connecting automation systems such as handling systems or robots for unmanned production. Thanks to expanded control and communication possibilities, it is possible to integrate different automation units and to control these autonomously in the production process. In order to guarantee extreme stiffness and precision for the machine, the machine's base structure has also been constructed from steel and polished hard rock.

OPTIONS

- EROWA workpiece pallets
- Hand-held operating unit / joystick
- Automatic workpiece changer for series production with robot connection

MATERIALS

Gold, silver, titanium, plastics, pearl, wood, wax, ceramics, graphite, aluminum, granite, copper, brass, stainless steel, steel, jade, hardened steel, special materials, peek, onyx and many more





TECHNICAL SPECIFICATIONS

Number of axles and machining type	5-axis simultaneous machining
Max. axis tilt angle	A-axis: endless / B-axis: B-25° up to B+90°
Wet processing	Integrated
Maximum speed / P _{max} ~	50,000 rpm / 2.3 kW
Axle drives	Linear motors and torque motors absolute measuring systems; resolution of 0.5 µm
Tool fitting	HSK 25
Tool changer	32-times with chip protection cover
Workpiece changer	Manual / optional: with zero point clamping system / 16-times fully automatic (loader)
Weight	1010: 625 kg 1010 Loader: 930 kg
Width x depth x height	1010: 785 x 1100 x 1940 mm 1010 Loader: 1325 x 1100 x 1940 mm
Supply voltage / frequency / power	400 V - 3 phase / 50/60 Hz / 2800 W
Compressed air supply	6-9 bar constant supply, 100 liters/minute

MACHINE PORTFOLIO

An unbeatable ratio of efficiency and quality. We facilitate your production.



IMARK ECO II

ENGRAVE YOUR JEWELRY INDIVIDUAL WITH THE IMARK ECOIL





THE OPTIMAL LASER ENGRAVING MACHINE

AMAZINGLY SIMPLE AND EXTREMELY FAST

The imark eco II galvo laser scanner enables serial parts to be marked, labelled and engraved economically with marking ranges of up to 200 x 200 mm. The galvo scanner head is designed for very high marking speeds. The imark eco II is at home anywhere placable thanks to the very compact table machine dimensions. The machine is controlled via a conventional PC that is connected directly to the machine via a USB cable.

HIGHLIGHTS

- Clamping area of 400 x 400 mm
- Working area of up to 150 x 150 mm
- Machine with complete protective laser enclosure
- Marking speed of up to 8 m/s with galvo scanner head
- No rework necessary
- Suction unit
- Electrically adjustable Z-axes
- Connection to a conventional PC via USB cable
- Including marking software

OPTIONS

- Visible pilot laser for exact positioning
- Camera for adjustment and display
- Various laser sources
- Different galvo scanner lenses
- controlled rotating axis to engrave round parts

HOLDER SYSTEMS

DIVERSE CLAMPING SYSTEMS FOR MANY APPLICATIONS

The imes-icore® holder systems have a quick release holder. This function makes it possible to remove a wide range of holding systems from the machine within a few seconds and to use a new clamping system. This function means maximum flexibility and speed for the day-to-day production. Customer-specific holder systems can be integrated at any time.



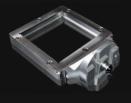
STANDARD-BLANK-HALTER

With this holder system you can use our standard discs with a diameter of 98 mm and a height up to 25 mm.



RING SPANNVORRICHTUNG

• Für die Nachbearbeitung von vorgefertigten Rohlingen



RECHTECK HALTER

- Holder systems for plate material
- Size 100 x 100 x 10 mm



MINISCHRAUBSTOCK

- Durch den Austausch der Standard Backen ist der Spannbereich jederzeit erweiterbar 3-13mm / 12-22mm / 21-31mm
- Zudem sind weiche Stahlbacken verfügbar um eine individuelle Spannung zu ermöglichen



RÖHM 3-/4- BACKENFUTTER

- Holding system for round materials such as
- •rods, tubes and prefabricated rings
- Also suitable for panel materials



ADAPTERPLATTE

- Die Adapterplatte ermöglicht, dass individuelle Spannvorrichtungen montiert werden können.
- Sie dient als Bindeglied zwischen Nullpunktspannsystem und der "eigentlichen" Aufspannung/Spannvorrichtung.



KONUSHALTER

Zum fixieren von Glaskeramik, Steinen und Kleinteilen



WACHSROHLING-HALTER

Wax blanks with a size of $50 \times 50 \times 16$ mm can be processed with this system 3- to 5-axis. After the ring base body has been manufactured, the ring can be reconnected and a machining of the outer surface can follow.

Isn't there a right holder for your application? - No problem!

Together with our customers we develop new holder systems according to your application. **Contact us.**

CAD/CAM SOFTWARE

FÜR SCHMUCK-, UHREN-, ACCESSOIRES-, UND KLEINTEIL DESIGN

MATRIXGOLD



MATRIX GOLD

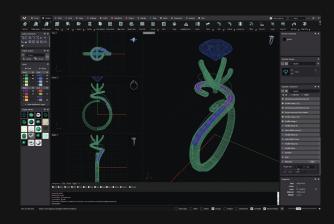
BRINGT SCHMUCKDESIGN IN FINE NEUF DIMENSION

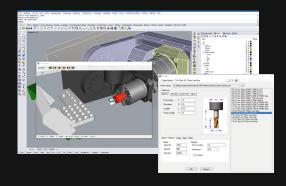
HIGHLIGHTS

- parametrics & History
- high precision
- mass determination & stone sizes
- preparation for:
- CNC production
- 3D Printing
- create a virtual model collection with realistic representation still before the finished model is
- produced
-

- jewellery Design created by Goldsmiths for goldsmiths
- complete control over all design elements
- easy & intuitive operation
- creation of own collections
- models according to customer requirements
- jewelry-specifi c features
- sockets, rings, pavè
- libraries: styles, jewelseasy creation of variations / variants







madCAM

HIGHLIGHTS

- 5-axis simultaneous machining
- precise simulation
- tool path editing
- intuitive interface
- angle limitation
- and many other features

CONTACT

HABEN WIR IHR INTERESSE GEWECKT?

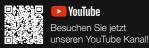
Gerne beraten wir Sie persönlich!



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