

ORCA

Laser engraving center

- Our power system – High capacity on large space
- Ideally for machining of large, heavy and palletized workpieces
- Up to 5 controlled axes
- Equippable with the unique LAS - Live Adjust System® and ODC-Modul
- Machining area 1200 x 800 mm
- Hydraulic lifting table

■ MACHINE

The ORCA® was conceived for maximum flexibility regarding size and weight of most different workpieces. The robust polymer concrete composite machining table is vibration free and temperature stable, indispensably for portal systems. High-Tech laser sources up to 150 watts and High-Speed laser heads offers sufficiently power for laser machining. The ORCA® can be equipped with 5 controlled axes and more for highest flexibility. This can be expected from High-End solutions.

■ APPLICATIONS

The lifting table option and the large machining area permits the loading of large and heavy workpieces, to mark and/or engrave them at arbitrary places. Also palletized workpieces can be processed automatically. Owing to outstanding laser characteristics, the ORCA® settles all tasks in shortest time and best quality.

■ SOFTWARE

Designed especially for engraving applications the ACSYS® software based on Windows XP offers the necessary functionality to setup your engraving programs easy and efficient. Both the programming and operation and the steering of the servo controlled axes are managed through the fully graphical, easy to use software interface. A special fractionalizing module permits a beginning-free, wide engraving and "intelligently" separated texts.

■ OPTIONS

• Varioscan

The Varioscan is an interpolated optical Z-axis for the machining of free form surfaces without placing the mechanical Z-axis behind. With the provided software, 3D-CAD data e.g. step, stl, can be processed directly.

• Precision rotary axis

For inside and outside marking of rings or cylindrical parts, different types of rotary axis with variable clamping units are available. This extends the possibilities of ORCA® for multiple purposes.

• LAS - Live Adjust System®

The unique LAS - Live Adjust System® reduces the setup times to a minimum and allows exact positioning also when using the smallest parts. The LAS - Live Adjust System® is a must, especially for the processing of small batches and pays back immediately.

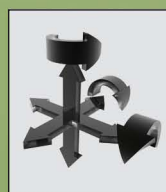
• ODC - Online Depth Control

The ODC - Online Depth Control guarantees a controlled material removal with micron precision. In addition it can be used for the scanning and digitizing of any free form surface.

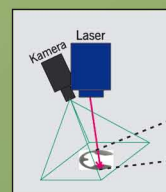
More options on request!



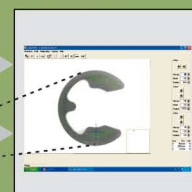
Dividing head



Multi-Axes



LAS - Live Adjust System®



TECHNICAL DATA

■ YOUR PLUS WITH ACSYS®

- Reliable, long lasting lasersources
- Marking, engraving, 3D deep engraving and digitizing - all this available in one machine
- 5 moving axes and ODC - Online Depth Control
- Machining of free form surfaces
- Automatic position detection



DIN EN ISO 9001:2000
Zertifikat: 01 100 055358

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Machine	ORCA®
Housing:	Laser safety class 1
Dimensions (W * H * D):	2300 x 2350 x 2600 mm
Working area:	1200 x 900 mm
Weight:	ca. 1500 kg
max. parts weight:	ca. 900 kg
Z-axis movement:	540 mm programmable + lifting table
max. marking speed:	300 characters/s. (standard) up to 800 characters/s. (high-speed)
max. parts height with marking field	
70 x 70 mm (f100):	1307 mm
110 x 110 mm (f160):	1200 mm
180 x 180 mm (f254):	1074 mm
230 x 230 mm (f330):	979 mm
other optics on request	

Laser						
Lasertype:	Diode	Diode	Diode	Lamp	Lamp	Lamp
Lasersource:	Nd: YAG/EP	Yb/FL	Nd: YAG/EP	Nd: YAG/SP	Nd: YAG/SP	Nd: YAG/SP
Cooling:	Air	Air	Water/ Air	Water	Water	Water
CW-Power:	8 Watts	20 Watts	40 Watts	65 Watts	90 Watts	150 Watts
Pulse frequency:	5...50 kHz	20...100 kHz	5...50 kHz	1...50 kHz	1...50 kHz	1...50 kHz
Electrical connection:	230V/50Hz/16A	230V/50Hz/16A	230V/50Hz/16A	400V/50Hz/32A	400V/50Hz/32A	400V/50Hz/32A
Power consumption ca.:	1 kW	0,6 kW	1,5 kW	4 kW	4,5 kW	5 kW
max. temperature:	40 °C	40 °C	45 °C	45 °C	45 °C	45 °C
Marking field:	Standard up to max. 230x230 mm, other dimensions on request					
Software:	Windows XP, fully graphical, WYSIWYG, direct data import from CAD programmes, (JPEG/DXF/PLT/BMP/STP/STL), Barcodes, etc...					
Interfaces:	RS 232, Ethernet, TCP/IP, Parallel I/Os					

Alternative configurations on request! Subject to change without notice!