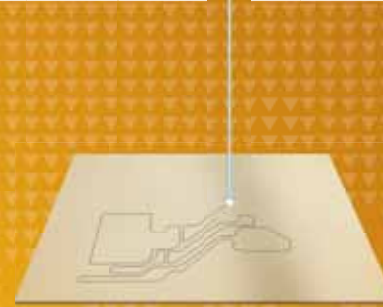


the project



the cutting



the finished product

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laser technology at your hand

BCL

cutting laser

Precision objects



Laser cutting application



Mechanical guide



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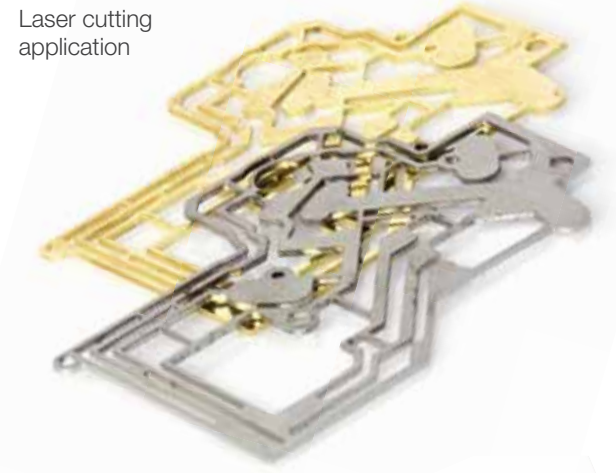
SERVICE

NET WORK

PROCESS

LASER

Laser cutting
application



Combined laser cutting /
marking application



Combined laser cutting /
milling application



Cutting
Laser
Systems

MCL · BCL

sisma

MCL

cutting laser



Industrial cutting



sisma

sisma

laser

MCL



Sisma MCL laser cutting system in its ball screw axis version is designed to process high performance and functionality. To ensure a high stability over time, the structure is in electro-welded tubular steel with stress relieved treatment. The cutting head features anti-collision capacitive sensor, capable of ensuring high-precision processes in all circumstances: Sisma MCL provides significant performance in terms of speed, cut quality and ability to perform work with a high acceleration and high precision even with continuous direction changes. In addition to the standard version, Sisma MCL is suitable as a basis for combined processes machines, combining laser cutting with marking or milling.

Laser cutting

MCL 500

MCL 1000

MCL 300/3000

Combined processes

MCL cutting/milling

MCL utting/markig



Front loading cutting box with plate tensioning and locking, pneumatic and manual clamps on fakir bed



Towing plate also available with adjustable pneumatic loader



Combined application with integrated laser cutting and marker



Capacitive head with collision sensor



Aspiration system divided into work areas



Integrated pieces collection tray



dedicated web page



laser

BCL



Sisma BCL laser cutting system in its version for linear axes X / Y is designed for high-performance processes and functionality. To ensure a high stability over time, the structure is in tubular steel with electro treatment stress relieved. The cutting features an anti-collision capacitive sensor, capable of ensuring high precision processes in all circumstances: Sisma BCL provides superior performance in terms of speed and quality of cutting. BCL offers great precision even with high acceleration processes and very narrow radial routes. Many options are available, as a system that divide the working area with a mobile column featuring clamps for fastening the sheet on three sides.

BCL 500

BCL 1000

BCL 300/3000



SPECIFICATIONS

- X and Y axes with linear motors - Z axis on ball screw with pneumatically operated door
- Cutting head with capacitive sensor and collision avoidance system
- PC / IntelliTouch 19" touchscreen monitor - CAD / CAM software for managing cutting path
- Filtering process gas kit - Extractable tray plate without clamps
- Traction and fixing clamps on request - Column with clamps on request
- Collecting box for parts removable and transportable
- Digital kit for gas pressure regulation
- Air suction system is divided into 3 areas of work

TECHNICAL DATA

Model	BCL 300/3000	BCL 500	BCL 1000
Source type	Fiber	Fiber	Fiber
Output power	300/3000 W	500 W	1000 W
Wave length		1070 nm	
Cooling	No	External	External
Power supply		380V 50/60Hz 3ph	
Overall power consumption	8 kW	9,5 kW	10,5 kW
Maximum sheet size		1250 x 1000 mm	
Working area without clamps X, Y		1250 x 1000 mm	
Working area with optional clamps X, Y		1200 x 975 mm	
Axis precision		0,015 +/- mm	
Axis resolution		0,010 +/- mm	
Max axis speed		60 m/min	
Machine dimensions w x l x h	2300 x 2500 x 2000 mm Without console		
Pulpit dimensions w x l x h	750x750x1500 mm		
Cooling system dimensions w x l x h	600x600x1050 mm		
Total weight	2000 Kg		
Cooling system weight	80 Kg		



Clamp for fixing small pieces



Straining clamp for small thickness



Column with pneumatic clamps for medium / big size plates



Digital pressure regulator



Collecting box for parts removable and transportable



Pull-out shelf with fakir bed



dedicated web page

