

the project



the cutting



the finished product

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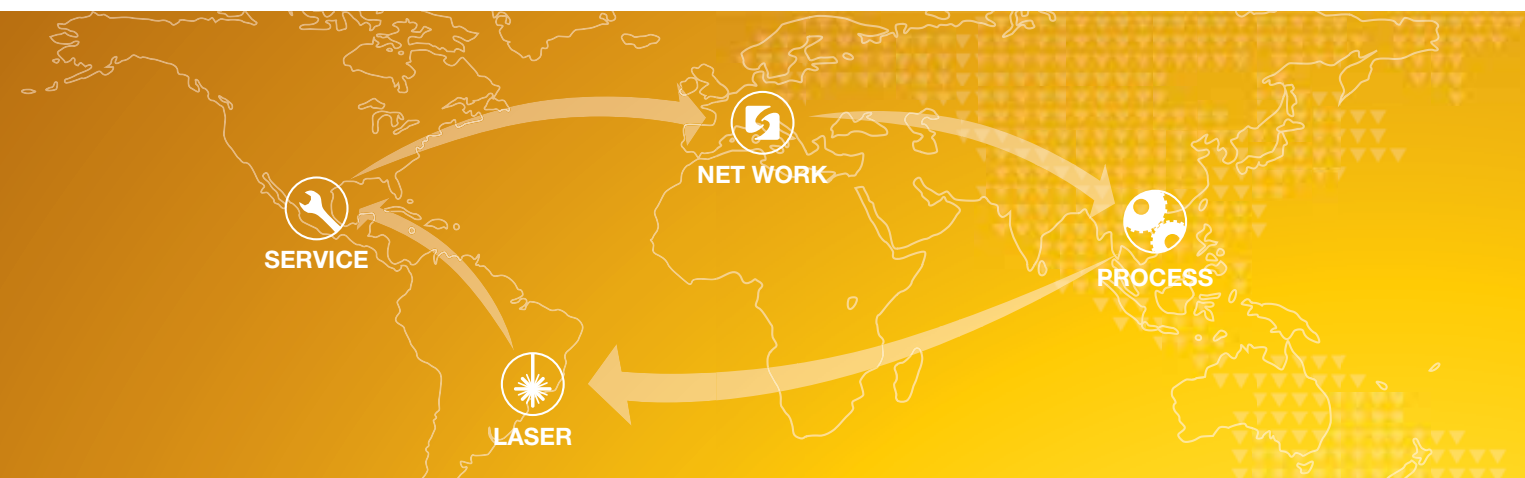
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laser technology at your hand

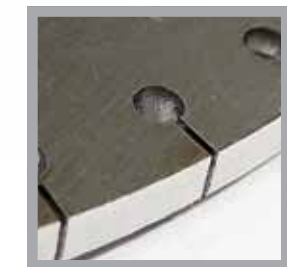
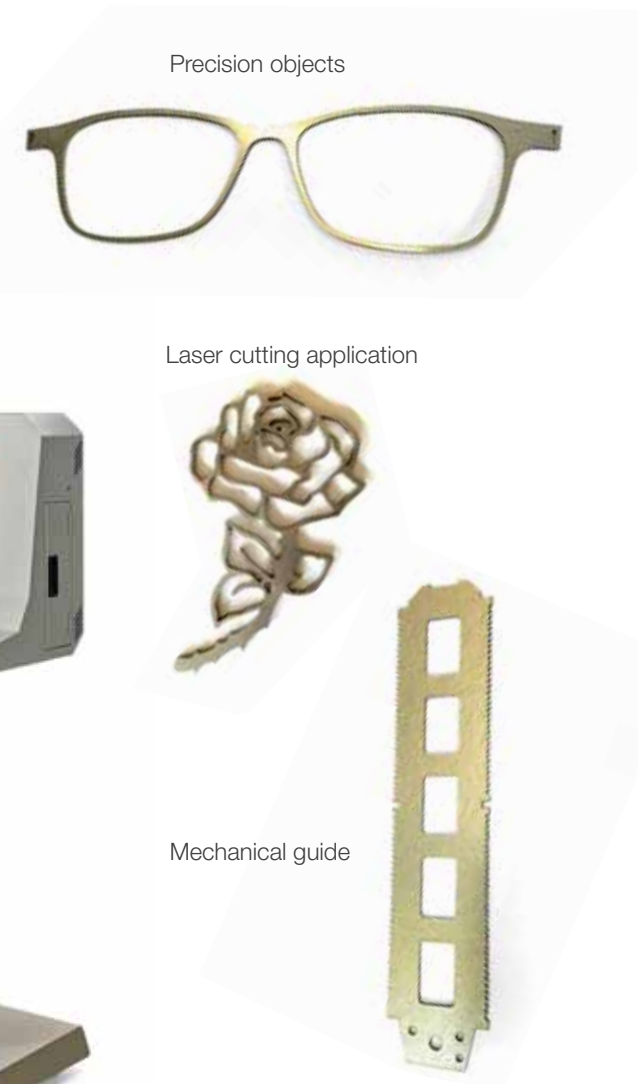


Cutting Laser Systems
MCL · BCL



BCL

cutting laser



Industrial cutting



MCL

cutting laser



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



- SPECIFICATIONS**
- Axes X, Y and Z ball screw
 - Cutting head with capacitive sensor and collision avoidance system
 - PC all-in-one
 - CAD / CAM software for cutting path management
 - Process gas filtering kit
 - The machinery must be set up with cutting box or plate dragger

TECHNICAL DATA

Model	MCL 300/3000	MCL 500	MCL 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	230V 50/60Hz 1ph		
Overall power consumption	6 kW	7,5 kW	8,5 kW
Working area for cutting box version X,Y	340 x 350 mm		
Max width with internal motorized plate dragger	max 120 mm		
Max width with external pneumatic plate dragger	max 200 mm		
Axis precision	0,025 +/- mm		
Axis resolution	0,010 +/- mm		
Axis max speed	30 m/min		
Machine dimensions w x l x h	900x1470x2400 mm Without console (L+750 with console)		
Cooling system dimensions w x l x h	600x600x1050 mm		
Total weight	800 Kg		
Cooling system weight	80 Kg		



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



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