

the project



the cutting



the finished product

# BCL

cutting laser



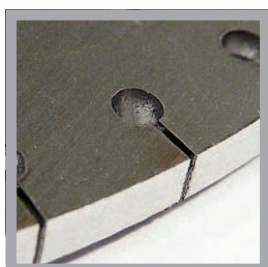
Precision objects



Laser cutting application



Mechanical guide



Industrial cutting



## Offices and Services in the WORLD

### SISMA LAB - Laser & Automations

via dell'Artiglianato, 26 - 36060 Romano d'Ezzelino (VI) - Italy  
ph. +39 0424 510050 - fax +39 0424 514035 - info@sismalab.com - www.sismalab.com

### SISMA CENTRO SRL

via P. Gobetti, 23 - 52100 Arezzo - Italy  
ph. +39 0575 250960 - fax +39 0575 250402 - info@sismacentro.it - www.sismacentro.it

### SISMA LASER ESPAÑA, s.l.

Ctra. Castellar n° 541 - 08227 Terrassa - Barcelona - España  
ph./fax +34 93 4800635 - info@sismalaser.es - www.sismalaser.es

### SISMA LASER - DE

Neumeyerstrasse 48 - 90411 Nurnberg - Germany  
ph. +49 (911) 5676947 - mobile +49 (151) 41928809 - webmaster@sisma-laser.de - www.sisma-laser.de

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### MOSCA - RUSSIA

Yuzhnoportovaya Str. 5/1 - Office 450 - 115088 Moscow - Russia  
Ph. +7 (495) 665 49 32 - ilgiz.sisma@gmail.com

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Bldg. n°3, Ground Floor, Shop n°F02 - ph. +971(4) 3688737 - fax +971(4) 3688738  
dubai@sisma.com - www.sisma.com

### SISMA LTA CO. LTD

2/3 Moo14, Bangna Tower A, 16th floor, Bangna-Trad Road, K.M. 6.5 Bangkaew, Bangplee, Samutprakam 10540  
ph.+66 2 797 0730 - fax +66 2 797 0701 - sisma.thailand@gmail.com - www.sisma.com

### WUXI - CHINA

Wuxi, Jiangsu 214071 - China 300 Qinan, Qing Qi Lu, APT 201  
ph. +86 5105109595 - fax +865105109595 - wx.sisma@public1wx.js.cn - www.sisma.com

### SISMA MESSICO - Sisma Laser Systems, S.A. DEC.V.

Parque Rio Grijalva 25, casa 3, Col. Cuauhtemoc, Delegacion Cuauhtemoc - CP.06500, Mexico D.F., Mexico  
ph +52 5552560344 - fax +52 55 52867784  
diego@sismalasersystems.com - www.sismalasersystems.com

### SISMA DO BRASIL

Av. Alexandre Milani 281 - Bairro Caxambu - Jundai - SP - CEP 13218-650 - Brasil  
ph. +55 11 4584.6624 - fax +55 11 7074.7705 - sisma@sismadobrasil.com.br

### SAO PAULO - MOURA REPRESENTACIONES

Jose Paulino, 226 Blocco D - Andar Sala 1012 Bom Retiro - 01120-000 Sao Paulo, Brasil  
ph. +55 11 33618661 - fax +55 11 33618661 - mourarep@mourarep.com.br

### PORTO ALEGRE - SISMA LASER EQUIPAMENTOS DE ALTA TECNOLOGIA LTDA.

Rua Euclides Moura 121 - 906380-070 PORTO ALEGRE - Brasil  
ph.+55 51 30238521 - fax+55 51 30451521 - mobile+55 51 99874413 - rodriguez.sisma@gmail.com

SISMA S.p.A.  
via dell'Industria, 1  
36013 Piovene Rocchette (VI) Italy  
tel. +39 0445 595511  
fax +39 0445 595595  
info@sisma.com  
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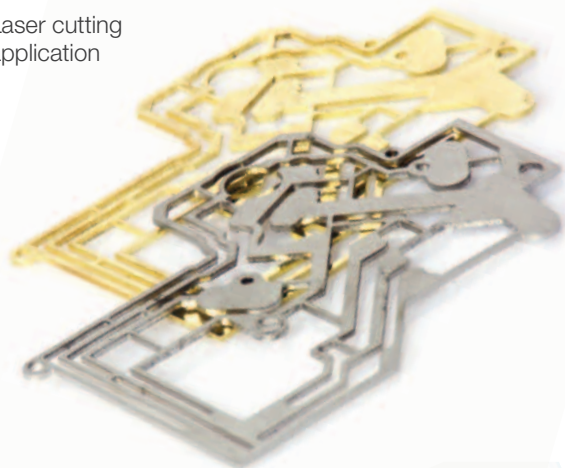


# MCL

cutting laser



Laser cutting application



Combined laser cutting / marking application



Combined laser cutting / milling application



# laser

## MCL



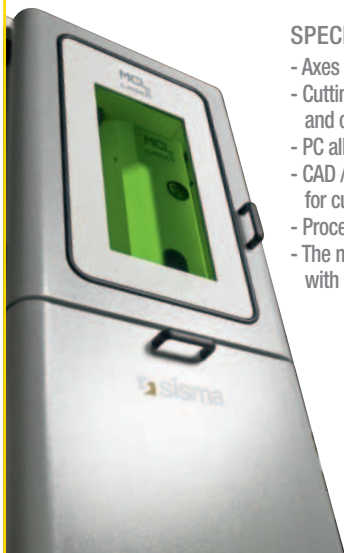
Sisma MCL laser cutting system in its ball screw axis version is designed to process high performance and functionality. To ensure a high stability over time, the structure is in electro-welded tubular steel with stress relieved treatment. The cutting head features anti-collision capacitive sensor, capable 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 cutting/marketing**

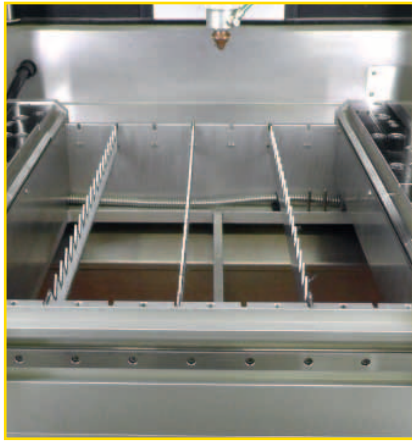


#### SPECIFICATIONS

- 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

	<b>MCL 300/3000</b>	<b>MCL 500</b>	<b>MCL 1000</b>
Model	Fiber	Fiber	Fiber
Source type	300/3000 W	500 W	1000 W
Output power	1070 nm		
Wave length	No	External	External
Cooling	230V 50/60Hz 1ph		
Power supply	6 KW	7,5 KW	8,5 KW
Overall power consumption	340 x 350 mm		
Working area for cutting box version X,Y	max 120 mm		
Max width with internal motorized plate dragger	max 200 mm		
Max width with external pneumatic plate dragger	0,025 +/- mm		
Axis precision	0,010 +/- mm		
Axis resolution	30 m/min		
Axis max speed	900x1470x2400 mm Without console (L+750 with console)		
Machine dimensions w x l x h	600x600x1050 mm		
Cooling system dimensions w x l x h	800 Kg		
Total weight	80 Kg		
Cooling system weight			



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



Plate dragger 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



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# 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**



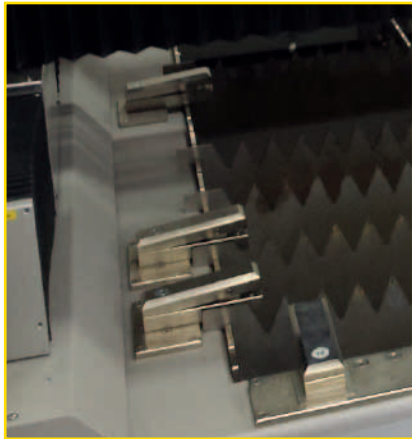
### SPECIFICATIONS

- 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
- Aspiration 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
Max 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		
Console 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



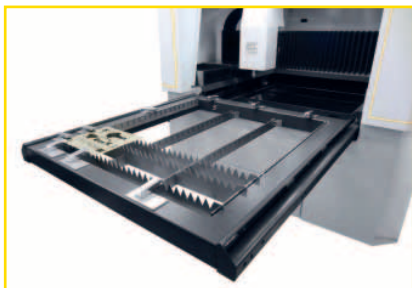
Column with pneumatic clamps for medium / big size plates



Digital pressure regulator



Collecting box for parts removable and transportable



Pull-out shelf with fakir bed



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