



BRM Ultra

Technical details

	Ultra 2500	Ultra 3000
Working range	1300 × 2500 × 30 mm	1500 × 3000 × 30 mm
Laser source	100 - 130 W 130 - 160 W	100 - 130 W 130 - 160 W
Dimensions Width x depth x height	2110 × 3830 × 2135 mm	2225 × 4445 × 2135 mm
Weight	1250 kg	1400 kg
Extraction system Minimum requirement (without pipes/hoses)	3x 850 m³/h flow rate at negative pressure of 15 mbar	3x 900 m³/h flow rate at negative pressure of 15 mbar
Recommended filter unit	BRM Extractor XXL	BRM Extractor XXXL

Features

Max. work piece height	30 mm
Max. processing speed	1000 mm/s X-axis, 300 mm/s Y-axis, 100 mm/s maximum recommended cutting speed
Max. acceleration	8000 mm/s² X-axis, 1000 mm/s² Y-axis
Motor type	Stepper motor X-axis, Servo motors Y-axis
Encoder precision	23 bit
Positioning system	Timing belt X-axis, Rack and pinion Y-axis
Optical elements	3 mirrors and 1 focus lens
Lenses	63.5 and 101.6 mm
Accuracy	0.1 mm cutting*
Accuracy of part size*	Depending on the material and process
Connectivity options	USB cable, USB flash drive, network and Interlock connector

Standard equipment

Lens	63.5 and 101.6 mm
Extraction system	Three non-filtering fume extractors Double bottom extraction and a top extraction system
Water chiller	CW-5200
Mirror cooling	Passively cooled
Software	LightBurn including 2 years of updates for 3 workstations
Control options	Control panel, reset button, emergency switch, air pressure regulator, key switch, main switch
Working table	Slat table
Laser pointer	650 nm, <5 mW
Turn-off delay	Extraction activates automatically with each operation and shuts down with a delay
Air supply	Air supply unit with software-controlled valves switchable per layer
Further standard equipment	135 W air pump Maintenance set Manual

Options

Acrylic cutting grid	Reflection-free cutting
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Safety and environmental conditions

Laser class	4
Conformities	CE, UKCA
Environmental conditions	Required ambient temperature 17 - 23°C, humidity 50 - 60%, non-condensing. Dust-free environment

Electricity

Electricity requirement	3 ~ 230 VAC, 50 Hz, max. 9.6 kW (3× 16 A)
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* The accuracy of all results depends on the material chosen and the combination of speed and power. We deliberately choose these achievable values that we stand behind 100% after extensive testing.

Subject to changes and printing errors.



BRM Ultra S

Technical details

Ultra 3000S	
Working range	1500 × 3000 × 30 mm
Laser source	130 - 160 W 280 - 300 W
Dimensions Width x depth x height	2225 × 4445 × 2135 mm
Weight	1400 kg
Extraction system Minimum requirement (without pipes/hoses)	3x 900 m³/h flow rate at negative pressure of 15 mbar
Recommended filter unit	BRM Extractor XXXL

Features	
Max. work piece height	30 mm
Max. processing speed	300 mm/s
Max. acceleration	1000 mm/s²
Motor type	Servo motors
Encoder precision	23 bit
Positioning system	Ball screw on the X-axis, rack and pinion on the Y-axis
Optical elements	5 mirrors and 1 focus lens
Lenses	63.5 and 101.6 mm
Accuracy	0.1 mm cutting*
Accuracy of part size*	Depending on the material and process
Connectivity options	USB cable, USB flash drive, network and Interlock connector

Standard equipment	
Lens	63.5 and 101.6 mm
Extraction system	Three non-filtering fume extractors Double bottom extraction and a top extraction system
Water chiller	CW-5200 or CW-6000**
Mirror cooling	Water chilled
Software	LightBurn including 2 years of updates for 3 workstations
Control options	Control panel, reset button, emergency switch, air pressure regulator, key switch, main switch
Working table	Slat table
Laser pointer	650 nm, <5 mW
Autofocus	Touch
Turn-off delay	Extraction activates automatically with each operation and shuts down with a delay
Air supply	Air supply unit with software-controlled valves switchable per layer
Further standard equipment	135 W air pump Maintenance set Manual

Options	
Acrylic cutting grid	Reflection-free cutting

Safety and environmental conditions	
Laser class	4
Conformities	CE, UKCA
Environmental conditions	Required ambient temperature 17 - 23°C, humidity 50 - 60%, non-condensing. Dust-free environment

Electricity	
Electricity requirement	3 ~ 230 VAC, 50 Hz, max. 9.6 kW (3× 16 A)

* The accuracy of all results depends on the material chosen and the combination of speed and power. We deliberately choose these achievable values that we stand behind 100% after extensive testing.

** The type of water cooler depends on the selected laser source.

Subject to changes and printing errors.