



eSmart series laser cutting machines

Economical, trouble-free and easy to use.

The eSmart series has been created for manufacturing companies that want to cut short and long series for their own needs without losing a large hall space.

10

[kW]

Maximum laser source power

2

[g]

Maximum acceleration

170

[m/min]

Maximum positioning speed

0,1

[mm]

Cutting accuracy

100

[m/min]

Maximum cutting speed

0,03

[mm]

Repeatability



TECHNICAL DATA

Machine

WORK AREA

MACHINE MODEL	[um]	1530	2040
X-axis	[mm]	3060	4070
Y-axis	[mm]	1540	2098
Z-axis	[mm]	100	100
maximum weight of the sheet	[kg]	1000	3200

DIMENSIONS AND WEIGHT OF THE MACHINE¹⁾

MACHINE MODEL	[um]	1530	2040
length	[mm]	10000	11570
width	[mm]	3080	3016
height	[mm]	3060	2240
maximum weight of the machine	[t]	18	21

¹⁾ Approximate values. The exact parameters are specified in the machine's installation plan.

Specifications of the machine

MAXIMUM SPEEDS

maximum cutting speed	[m/min]	100
parallel to the X, Y, Z axes	[m/min]	120
simultaneously	[m/min]	170

AXIS PARAMETERS

repetitiveness	[mm]	0,03
cutting precision	[mm]	0,1
accelerations	[m/s ²]	20
minimum programmable leap	[mm]	0,001

Maximum cutting thicknesses

AVAILABLE LASER SOURCE	[um]	1kW	2kW	3kW	4kW	6kW	8kW	10kW
mild steel	[mm]	10	16	20	20	30*	40*	50*
stainless steel	[mm]	4	10	15	20	30*	40*	50*
aluminium	[mm]	2	6	12	15	30*	35*	40*
brass	[mm]	2	4	6	8	12	15	20
copper	[mm]	1,5	4	6	6	10	15	20

Maximum thicknesses of materials to be processed. Values achieved under conditions depending on the quality of the material being processed, the quality of the cutting gases, the quality of the service and NC program and the condition of the wearing parts.
*Heavy duty (HD) laser cutter version with CatLine option.

CNC

control | Beckhoff TwinCAT CNC

Media

compressed air pressure	[bar]	6
nitrogen pressure	[bar]	25-30
oxygen pressure	[bar]	8-10

Laser source data

laser type		IPG fiber laser
available laser sources	[kW]	1-20
wavelength	[µm]	1,07
beam quality	mm x mrad	3, 4-4,0
frequency	[kHz]	5