

HD-FN 3015



TECHNICAL DATA		
Cutting Axes		
X Axis	3060	mm
Y Axis	1525	mm
Z Axis	125 (275)	mm
Max. Sheet Size	3048x1524	mm
Max. Sheet Weight Per Square Meter for One Table	240 (corresponds to 30mm sheet)	kg/m ²
Max. Total Sheet Weight for Double Table	2160 (corresponds to 60mm sheet)	kg
Dynamics		
Max. Speed X-axis	100	m/min.
Max. Speed Y-axis	100	m/min.
Max. Speed Z-axis	30	m/min.
Max. Synchronous Speed (X-Y)	141	m/min.
Max. Synchronous Acceleration	14	m/s ²
Positional Accuracy	± 0,05	mm
Repeatability	± 0,05	mm
Table Change Time	25	sec.
Edge Dedection Accuracy*	± 1	mm
Control Unit		
CNC	MTX consisting of Hardware XM42	
PC: PCU50.3	18.5" Multitouch Panel	
Laser Cutting Head		
Type	Durma Cutting Head	
Focus Length	150/200	
Focus	Automatic	
Filter**		
Capacity	1500(for 1-2 kW)/2500(for 3-4-6-8 kW)/4000(for 10-12 kW)	
Power	3 / 4 / 5,5	
Chiller		
Chiller for 2 kw	Durma DC-2000 (DC-1500 for 1 kW)	
Chiller for 3 kw	Durma DC-3000	
Chiller for 4 kw	Durma DC-4000	
Chiller for 6 kw	Durma DC-6000	
Chiller for 8 kw	Durma DC-8000	
Chiller for 10 kw - 12 kw	Durma DC-12000	

*Edge Dedection Accuracy may vary depending on the edge radius and quality of the sheet.

**A larger capacity filter is used in machines of 10kW and above.

Max. Cutting Thickness depending on Laser Power*								
Material	1 kW	2 kW	3 kW	4 kW	6 kW	8 kW	10 kW	12 kW
Mild Steel	8	12 (16)	16 (20)	20 (22)	25	25 (30)	30	30
Stainless Steel	4	6 (8)	8 (10)	10 (12)	15 (20)	20 (25)	25 (30)	25 (30)
Aluminum (AlMg3)	4	6 (8)	8 (10)	12 (15)	20 (25)	25 (30)	25 (30)	30 (40)
Copper	2	3	5	6	10	12	15	15
Brass	4	6	8	10	12	15	20	20

* Values given are for cutting with acceptable clean cutting surface. Values inside () are possible to cut, but some dross.

AVERAGE ELECTRICAL CONSUMPTION OF THE MACHINE (kW)		
	LASER SOURCE POWER	AVERAGE CONSUMPTION (Kw)
RESONATOR	2 KW	3,9
	3 KW	5,7
	4 KW	7,8
	6 KW	8,8
	8 KW	12,1
	10 KW	13,6
	12 KW	18,3
CHILLER 1	2 KW	4,4
	3 KW	7,8
	4 KW	7,8
	6 KW	7,8
	8-10-12KW	8,1
CHILLER 2		0
FILTER		3
ELECTRICAL PANEL		8,9

TOTAL POWER	2 KW	20,2	
	3 KW	25,4	
	4 KW	27,5	
	6 KW	28,5	
	8 KW	32,1	
	10 KW	33,6	
	12 KW	38,3	

LAYOUT AND DIMENSIONS

