

## HD-FN 4020



<b>TECHNICAL DATA</b>		
<b>Cutting Axes</b>		
X Axis	4100	mm
Y Axis	2070	mm
Z Axis	125 (270)	mm
Max. Sheet Size	4064x2032	mm
Max. Sheet Weight Per Square Meter for One Table	240 (for 3...12kW) / 400 (for 15-20kW)	kg/m <sup>2</sup>
Max. Total Sheet Weight for Double Table	3900 (for 3...12kW) / 6400 (for 15-20kW)	kg
<b>Dynamics</b>		
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 <sup>2</sup>
Positional Accuracy	± 0,05	mm
Repeatability	± 0,05	mm
Table Change Time	32	sec.
Edge Dedection Accuracy*	± 1	mm
<b>Control Unit</b>		
CNC	MTX consisting of Hardware XM42	
PC: PCU50.3	18.5" Multitouch Panel	
<b>Laser Cutting Head</b>		
Type	Durma Cutting Head	
Focus Length	150 (for 3-4-6 kW) / 200 (for 12-15-20 kW)	
Focus	Automatic	
<b>Filter**</b>		
Capacity	4000(for 3-4-6 kW)/6000(for 12-15-20 kW)	
Power	5,5 / 7,5	
<b>Chiller</b>		
Chiller for 3 kw	Durma DC-3000	
Chiller for 4 kw	Durma DC-4000	
Chiller for 6 kw	Durma DC-6000	
Chiller for 10-12 kw	Durma DC-12000	
Chiller for 15-20 kw	Durma DC-20000	
-	-	

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

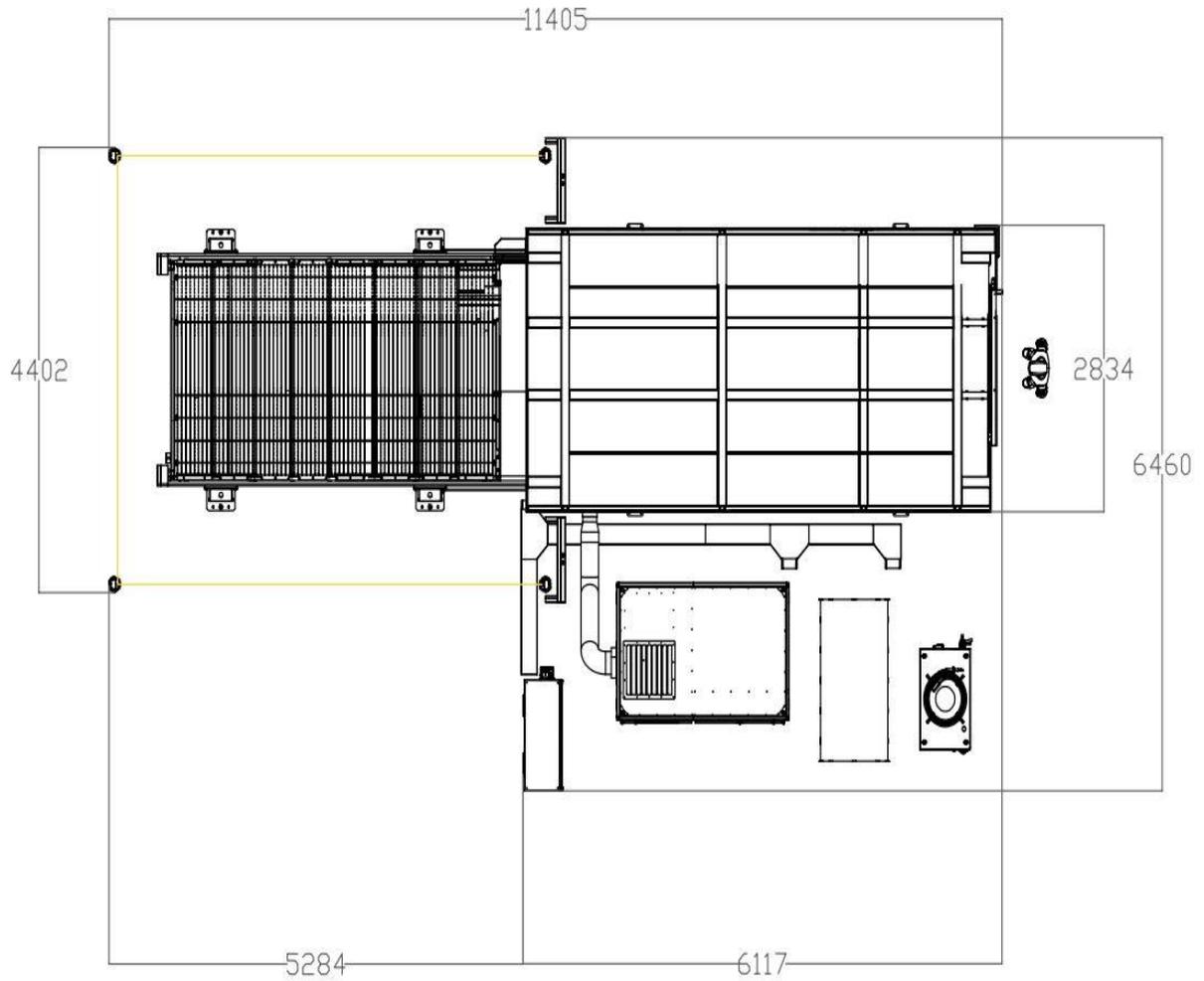
\*\*A larger capacity filter is used in machines of 10kW and above.

Max. Cutting Thickness depending on Laser Power*						
Material	3 kW	4 kW	6 kW	12 kW	15 kW	20 kW
Mild Steel S235	16 (20)	20 (22)	25	30	35 (40)	40 (50)
Stainless Steel (304)	8 (10)	10 (12)	15 (20)	25 (30)	35 (40)	40 (50)
Aluminum (5083)	8 (10)	12 (15)	20 (25)	30 (40)	35 (40)	40 (50)
Copper	5	6	10	15	15	15
Brass (CuZn39 Pb3)	8	10	12	20	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	3 KW	5.7
	4 KW	7.8
	6 KW	8.8
	12 KW	18.3
	15 KW	20.9
	20 KW	23.1
CHILLER 1	3 KW	7.8
	4 KW	7.8
	6 KW	7.8
	12 KW	8.1
	15 KW - 20 KW	8.1
CHILLER 2		0
FILTER		5.5
ELECTRICAL PANEL		8.9

TOTAL POWER	3 KW	27.9
	4 KW	30
	6 KW	31
	12 KW	40.8
	15 KW	43.4
	20 KW	45.6

**LAYOUT AND DIMENSIONS**

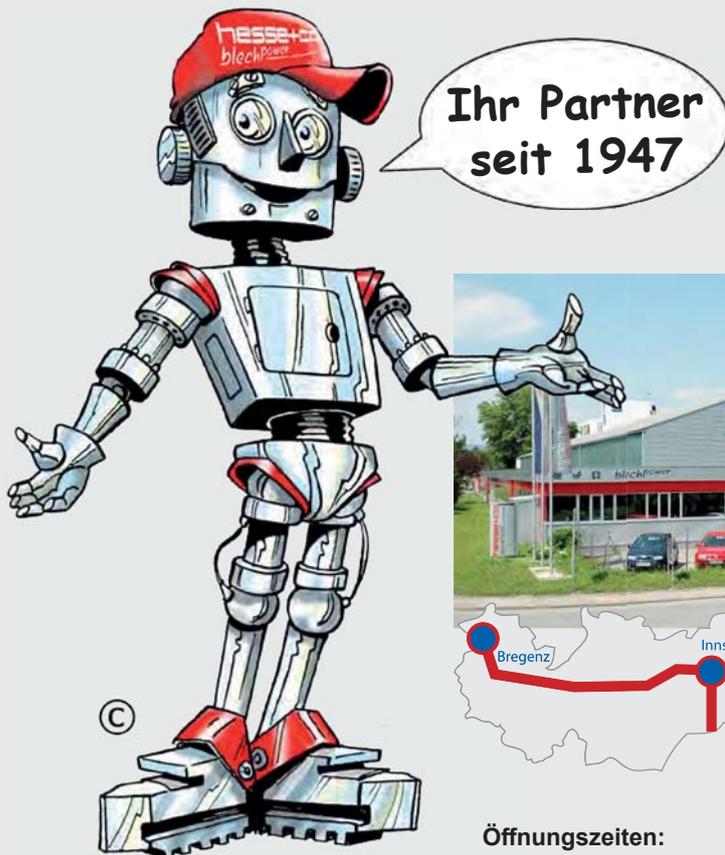
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