

# TECHNICAL FEATURES

## EL4000 x 4kW

## EL3000 x 4kW

## LM3000 x 2,5 kW

LASER SOURCE		Watt	4000 Watt CO <sub>2</sub> -Laser GE Fanuc C4000E, Long Optical Path Type	4000 Watt CO <sub>2</sub> -Laser GE Fanuc C4000E, Short Optical Path Type	2500 Watt CO <sub>2</sub> -Laser GE Fanuc C2000E, Long Optical Path Type
MAXIMUM PULSE PEAK POWER		Watt	5000	5000	2700
RF - EXCITATION		MHz	2	2	2
POWER STABILITY		%	± 2	± 2	± 2
PULSE MODE		-	Freq: 5 - 2000Hz Duty: 0 - 100%	Freq: 5 - 2000Hz Duty: 0 - 100%	Freq: 5 - 2000Hz Duty: 0 - 100%
LASER WAVE LENGTH		µm	10.6	10.6	10.6
BEAM MODE		-	Low Order Mode	Low Order Mode	Low Order Mode
POLARISATION		-	Circular	Circular	Circular
LASER GAS COMPOSITION		-	CO <sub>2</sub> / He / N <sub>2</sub>	CO <sub>2</sub> / He / N <sub>2</sub>	CO <sub>2</sub> / He / N <sub>2</sub>
LASER GAS CONSUMPTION		Liter/hour	10	10	10
COOLING WATER FLOW RATE		l/min	160	160	75
CNC CONTROLLER & OPERATOR PANEL		-	GE Fanuc series 16i-LB "LCD mounted" type CNC with 10,4" color screen, 512kB part program memory and all relevant laser functions	GE Fanuc series 16i-LB "LCD mounted" type CNC with 10,4" color screen, 512kB part program memory and all relevant laser functions	GE Fanuc series 16i-LB "LCD mounted" type CNC with 10,4" color screen, 512kB part program memory and all relevant laser functions
MAXIMUM WORKSHEET DIMENSIONS		mm	4000 x 2000	3000 x 1500	3000 x 1500
CUTTING CAPACITY (High Quality)					
MILD STEEL		mm	25	25	18
STAINLESS STEEL		mm	12	12	8
ALUMINUM		mm	8	8	6
MAXIMUM BURDEN CAPACITY		kg	1500	1500	1500
MACHINE AXES		-	5-Axes [X, Y, Z, U (X2), V]	5-Axes [X, Y, Z, U (X2), V]	5-Axes [X, Y, Z, U (X2), V]
AXIAL MOVEMENTS					
X, U AXES Linear Motorized		mm	4080	3060	3060
Y AXIS Linear Motorized		mm	2060	1540	1540
Z AXIS Servo Motorized		mm	150	150	150
V AXIS Linear Motorized		mm	3000	2250	2250
ACCELERATIONS					
X, U AXES Linear Motorized		G	2	2	2
Y AXIS Linear Motorized		G	4	4	4
Z AXIS Servo Motorized		G	2	2	2
MAXIMUM AXES VELOCITIES		m/min	200 (simultaneous, approx.)	200 (simultaneous, approx.)	200 (simultaneous, approx.)
POSITIONING ACCURACY		mm	± 0,02	± 0,02	± 0,02
REPETITION ACCURACY		mm	± 0,05	± 0,05	± 0,05
SHUTTLE TABLE CYCLE TIME		sec	40	35	35
ASSIST GAS					
MILD STEEL		-	Oxygen (0,1-6 Bar)	Oxygen (0,1-6 Bar)	Oxygen (0,1-6 Bar)
STAINLESS STEEL		-	Nitrogen (0,2-25 Bar)	Nitrogen (0,2-25 Bar)	Nitrogen (0,2-25 Bar)
ALUMINUM		-	Air or Nitrogen (0,2-25 Bar)	Air or Nitrogen (0,2-25 Bar)	Air or Nitrogen (0,2-25 Bar)
CUTTING HEAD		-	Precitec HP2" (Z)	Precitec HP2" (Z)	Precitec HP1.5" (Z)
CUTTING HEAD FOCAL LENGTHS		Inches	5 - 7,5 - 10	5 - 7,5 - 10	3,75 - 5 - 7,5 - 10
CAD/CAM SOFTWARE		-	Lantek Expert Cut	Lantek Expert Cut	Lantek Expert Cut
TOTAL ELECTRIC POWER NECESSITY		kW	65-90	65-90	50-70
MACHINE DIMENSIONS ( L x W x H )		mm	13450 x 3700 x 2120	10700 x 3140 x 2100	10700 x 3140x 2100
MACHINE WEIGHT		kg	28000	19550	19550