

## JUSTMARK 6.4

## JUSTMARK 4.2 V1

## JUSTMARK V2 (ECO)

<b>Marking fields</b>	F-Theta 100: 70x70 mm F-Theta 163: 110x110 mm F-Theta 210: 150x150 mm F-Theta 253: 175x175 mm F-Theta 290: 200x200 mm	F-Theta 100: 70x70 mm F-Theta 163: 110x110 mm F-Theta 210: 150x150 mm	
<b>Spot size</b>	F-theta 100: 40 µm   F-theta 163: 50 µm   F-theta 210: 65 µm   F-theta 254: 80 µm   F-theta 290: 90 µm		
<b>Max. Loading area</b>	605x350 mm	345x240 mm	330x235 mm
<b>Max. Workpiece height</b>	F-Theta 100: 360 mm F-Theta 163: 305 mm F-Theta 210: 250 mm F-Theta 253: 185 mm F-Theta 290: 165 mm	F-Theta 100: 170 mm F-Theta 163: 85 mm F-Theta 210: 30 mm	F-Theta 100: 260 mm F-Theta 163: 175 mm F-Theta 210: 120 mm
<b>Work table</b>	Black anodized aluminium plate (incl. thread for easy positioning of workpieces)		
<b>Max. Marking speed</b>	7000 mm/s		
<b>Max. Positioning speed</b>	3000 mm/s		
<b>Max. Jumping angle</b>	8000 mm/s		
<b>Max. Workpiece weight (distributed over the worktable)</b>	50kg	40kg	
<b>Scanner</b>	10mm aperture, 16 bit resolution, long-term drift (5h) <5%		
<b>Z-axis</b>	Manual movement, software-controlled positioning (repeat accuracy: +/- 0.1 mm)		
<b>Max. pulse energy</b>	20W: 0.8mJ at 25kHz   30W: 0.8mJ at 37.5kHz		
<b>Control elements</b>	Key switch   Emergency stop   Z-axis lock switch Membrane keypad: Start laser process   Lighting on/off   Z-axis up/down   Speed- run Z-axis   Autofocus [optional]	Key switch   Emergency stop   Z-axis lock switch Membrane keypad: Laser process start   lighting on/off   Z-axis up/down	Key switch   Emergency stop   Z-axis lock switch Membrane keypad: Start laser process   Lighting on/off   Z-axis up/down   Speed-run Z-axis   Autofocus [optional]
<b>Laser power</b>	20W, 30W		
<b>Cooling</b>	Air-cooled [incl. temperature monitoring]		
<b>Wavelength</b>	1064nm		
<b>Round engraving device</b>	060 / 080 / bottle rotary	060	
<b>Focusing method</b>	Manual   software-control- led Z-axis   autofocus sensor	Manual   software-controlled Z-axis	
<b>Motor system</b>	Stepper motors [Z-axis + rotary engraving device]		
<b>Laser source</b>	Fiber laser [Yb:glass]		
<b>External dimensions without packaging (W x D x H)</b>	754 x 857 x 1092 mm	430 x 740 x 781 mm	498 x 757 x 713 mm
<b>Machine weight without packaging</b>	126 kg	76 kg	85 kg
<b>External dimensions incl. packaging (W x D x H)</b>	1137 x 892 x 1064 mm	887 x 563 x 808 mm	889 x 606 x 918 mm
<b>Machine weight incl. packaging</b>	218 kg	112 kg	117 kg
<b>Power connection</b>	230V / 6A / 1~ / 50-60Hz		
<b>Power consumption per hour</b>	700VA [depending on the laser power]		
<b>Laser class</b>	Class II (positioning laser <1mW, visible red light with 650nm wavelength)		
<b>Laser safety</b>	CE certified (fully enclosed machining area with monitored interlock safety system)		
<b>Ambient conditions</b>	Ambient temperature 15°C - 25°C Humidity 40 - 70%, non-condensing		
<b>Lasersoftware</b>	EZCAD 3		
<b>System requirements (computer)</b>	Windows 10 Pro or higher; administrator authorization; at least two available USB interfaces		