

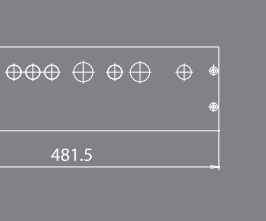
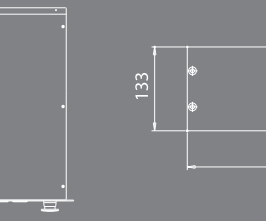
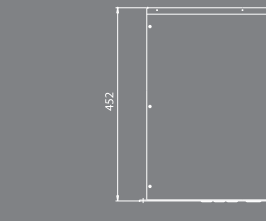
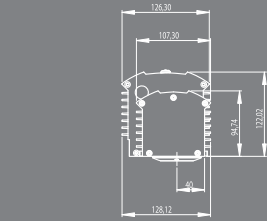
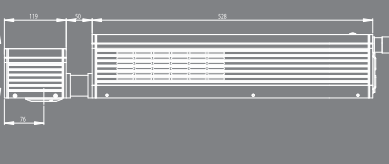
# SERIE S-3000

LASER MARKING & CODING SYSTEM

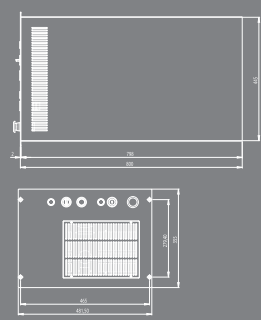
# macsa

# S-3000 LASER SYSTEM

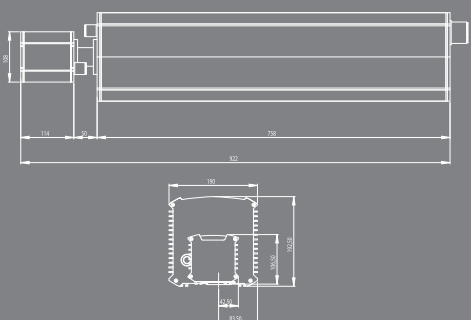
S-3010 PLUS  
S-3030 PLUS SHS



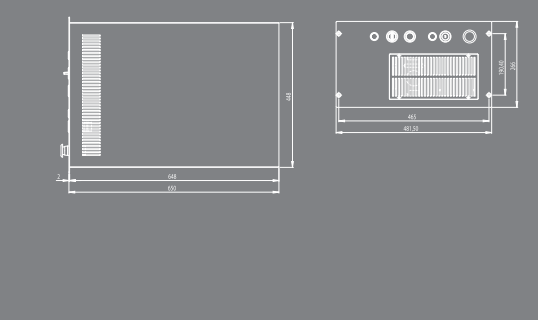
S-3100 PLUS SHS



S-3100 / S-3060 PLUS SHS



S-3060 PLUS SHS



THE S-3000 LASER SYSTEM PROVIDES A FLEXIBLE AND ECONOMIC AND EASY INTEGRATION TO A WIDE VARIETY OF MARKING AND CODING REQUIREMENTS.



<b>MODEL</b>	<b>Power</b>	<b>10W</b>	<b>30W</b>	<b>60W</b>	<b>100W</b>																																																																																																																				
	<b>Wavelength</b>	10,6µ/9,3µ	10,6µ/9,3µ	10,6µ	10,6µ																																																																																																																				
	<b>Model</b>	S-3010PLUS	S-3030PLUS SHS	S-3060 PLUS SHS	S-3100 PLUS SHS																																																																																																																				
<b>NOMINAL POWER</b>		10W	30W	60W	100W																																																																																																																				
<b>MAINS SUPPLY</b>		115V / 230 V 50/60 Hz (1 Phase + N) 300VA	115V / 230 V 50/60 Hz (1 Phase + N) 600VA	115V / 230 V 50/60 Hz (1 Phase + N) 1600VA	115V / 230 V 50/60 Hz (1 Phase + N) 2600VA																																																																																																																				
<b>DIMENSIONS</b>	<b>Head</b>	114mm x 108mm x 106mm																																																																																																																							
	<b>Tube</b>	633mmx108mmx129mm																																																																																																																							
	<b>Rack</b>	758mmx190mmx192mm																																																																																																																							
		481mmx133mmx453mm (19"x3Ux453mm)		481mmx266mmx650mm (19"x8Ux650mm)																																																																																																																					
<b>WEIGHT</b>		Net Weight: 30 Kg Gross Weight: 35 Kg	Net Weight: 45 Kg Gross Weight: 50 Kg	Net Weight: 71 Kg Gross Weight: 86 Kg	Net Weight: 86 Kg Gross Weight: 101 Kg																																																																																																																				
<b>SYSTEM CABINET</b>		10/30W		60/100W																																																																																																																					
		Laser built into the laser tube. Scanners built into the scanning head Power, Control Electronics and computer built into the cabinet		Laser built into the laser tube. Scanners built into the scanning head Power, Control Electronics and computer built into the cabinet																																																																																																																					
<b>FOCAL SPECIFICATIONS</b>	WD	Focal Distance	Marking Area	Beam Diameter	Beam Diameter																																																																																																																				
				PLUS	PLUS																																																																																																																				
	85mm	95mm	60x60mm	<160µm -0	<160µm -0																																																																																																																				
	115mm	125mm	75x75mm	<220µm -0	<220µm -0																																																																																																																				
	190mm	200mm	100x100mm	<350µm -S	<350µm -S																																																																																																																				
	230mm	240mm	150x150mm	<420µm -0	<420µm -0																																																																																																																				
	310mm	320mm	200x200mm	<560µm -0	<560µm -0																																																																																																																				
	400mm	410mm	250x250mm	<720µm -0	<720µm -0																																																																																																																				
<b>SOFTWARE</b>	µm: microns S: Standard O: Optional Built in 90° marking as standard (easily convertible in 0° marking by external elbow)																																																																																																																								
	<ul style="list-style-type: none"> <li>ScanLinux from V3.6 and higher</li> <li>Marca Software from V5.4 and higher</li> <li>Internal Bar Code</li> <li>Marca Lite Software</li> <li>21 CFR Part 11 Software</li> <li>HAND HELD TERMINAL / TOUCH SCREEN / PC</li> <li>Hand Held Terminal with ScanLinux software</li> <li>Touch Screen with ScanLinux software</li> <li>Full Graphics Interface: includes Marca™ software, protection key and Ethernet cable (TCP/IP)</li> <li>Marca Lite: includes Marca Lite™ software, protection key and Ethernet cable (TCP/IP)</li> </ul>																																																																																																																								
<b>USER INTERFACE CONTROL BY</b>																																																																																																																									
<b>SPEED</b>	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="6">S-3060 PLUS SHS</th> </tr> <tr> <th>PAPER LABEL</th> <th>Max speed Line (m/min)</th> <th colspan="2">Bottles per Hour</th> <th colspan="2">GLASS</th> <th colspan="2">Max speed Line (m/min)</th> <th colspan="2">Bottles per Hour</th> </tr> </thead> <tbody> <tr> <td>1 Line / 8 Char.</td> <td>575</td> <td>290</td> <td>245000</td> <td>124000</td> <td>1 Line / 8 Char.</td> <td>195</td> <td>175</td> <td>83500</td> <td>75000</td> </tr> <tr> <td>2 Line / 8 Char.</td> <td>310</td> <td>140</td> <td>130000</td> <td>60000</td> <td>2 Line / 8 Char.</td> <td>105</td> <td>85</td> <td>45000</td> <td>36400</td> </tr> <tr> <td>3 Line / 8 Char.</td> <td>190</td> <td>95</td> <td>80000</td> <td>40700</td> <td>3 Line / 8 Char.</td> <td>65</td> <td>55</td> <td>27800</td> <td>23500</td> </tr> <tr> <td>4 Line / 8 Char.</td> <td>145</td> <td>70</td> <td>60000</td> <td>30000</td> <td>4 Line / 8 Char.</td> <td>50</td> <td>45</td> <td>21400</td> <td>19200</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="6">PET Bottle</th> </tr> <tr> <th>1 Line / 8 Char.</th> <th>Max speed Line (m/min)</th> <th colspan="2">Bottles per Hour</th> <th colspan="2">DATALASE</th> <th colspan="2">Max speed Line (m/min)</th> <th colspan="2">Bottles per Hour</th> </tr> </thead> <tbody> <tr> <td>1 Line / 8 Char.</td> <td>425</td> <td>265</td> <td>182000</td> <td>113500</td> <td>1 Line / 8 Char.</td> <td>705</td> <td>325</td> <td>302100</td> <td>139200</td> </tr> <tr> <td>2 Line / 8 Char.</td> <td>215</td> <td>130</td> <td>92100</td> <td>55700</td> <td>2 Line / 8 Char.</td> <td>365</td> <td>160</td> <td>156400</td> <td>68500</td> </tr> <tr> <td>3 Line / 8 Char.</td> <td>145</td> <td>85</td> <td>60000</td> <td>36400</td> <td>3 Line / 8 Char.</td> <td>245</td> <td>105</td> <td>105000</td> <td>45000</td> </tr> <tr> <td>4 Line / 8 Char.</td> <td>105</td> <td>65</td> <td>45000</td> <td>27800</td> <td>4 Line / 8 Char.</td> <td>180</td> <td>75</td> <td>77100</td> <td>32100</td> </tr> </tbody> </table>							S-3060 PLUS SHS						PAPER LABEL	Max speed Line (m/min)	Bottles per Hour		GLASS		Max speed Line (m/min)		Bottles per Hour		1 Line / 8 Char.	575	290	245000	124000	1 Line / 8 Char.	195	175	83500	75000	2 Line / 8 Char.	310	140	130000	60000	2 Line / 8 Char.	105	85	45000	36400	3 Line / 8 Char.	190	95	80000	40700	3 Line / 8 Char.	65	55	27800	23500	4 Line / 8 Char.	145	70	60000	30000	4 Line / 8 Char.	50	45	21400	19200			PET Bottle						1 Line / 8 Char.	Max speed Line (m/min)	Bottles per Hour		DATALASE		Max speed Line (m/min)		Bottles per Hour		1 Line / 8 Char.	425	265	182000	113500	1 Line / 8 Char.	705	325	302100	139200	2 Line / 8 Char.	215	130	92100	55700	2 Line / 8 Char.	365	160	156400	68500	3 Line / 8 Char.	145	85	60000	36400	3 Line / 8 Char.	245	105	105000	45000	4 Line / 8 Char.	105	65	45000	27800	4 Line / 8 Char.	180	75	77100	32100
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<b>MARKING HEAD</b>	<p><b>Black - Newpal Font</b> <b>Red - Crystal Font</b></p> <p>S-3000 - 10,6 µm Ss-3000 - 9,3 µm CO2 sealed laser tube CO2 sealed laser tube R.F. technology R.F. technology Wavelength: 10,6 microns Wavelength: 9,3 microns</p>																																																																																																																								
<b>ACCESORIES</b>	Diode marking area indicator - Encoder kit - Mounting support - Photocell kit																																																																																																																								
<b>AMBIENT CONDITIONS</b>	10° C (50° F) to 40° C (104° F) external temperature Humidity: 95% non-condensing No vibrations																																																																																																																								



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# FROM EVOLUTION TO INNOVATION



THE S-3000 LASER SYSTEM PROVIDES A FLEXIBLE AND ECONOMIC AND EASY INTEGRATION TO A WIDE VARIETY OF MARKING AND CODING REQUIREMENTS.



Split head option for difficult access.

**THE INCREDIBLY COMPACT DESIGN** along with an adjustable marking head ensures that you can install this system on even the most complicated production lines. The system can even be integrated with other manufacturer's equipment.

**THIS EASY TO USE SYSTEM** works through a combination of extremely fast mirror tracking systems and the most modern software and hardware you can be assured of reliable high speed marking.

**THE LATEST IN LASER TECHNOLOGY** along with the fact that you don't need expensive replacements results in a system that requires little maintenance, minimal operational costs and no headaches.

**THE MARKING PROCESS** is unimpeded because you don't need an expensive and space consuming PC on the production line. Furthermore in Macsa lasers, with MACSA's software, you can link several S-3000 laser systems together for even greater control and increased production or to increase the graphic features of the S-3000 laser connecting a PC through the full graphic interface kit.

**ALL OF THESE FEATURES** ensures that everyone of your products is marked with the same high degree of quality and permanence guaranteeing accurate identification for the lifetime of your products.

**A DIVERSE RANGE OF MATERIALS** can be marked utilizing the S-3000 system including labels, cardboard, PET, glass, coating and wood.



## USER INTERFACE FOR LASER SYSTEMS

### HAND-HELD TERMINAL

Connection via RS-232 with ScanLINUX software included in laser marking system • creation and editing of text messages • able to create up to 4 lines of text • 4 types of MFF fonts • modify size (max. 20 mm) and separation between characters • modify message XY position • time marking in multiple formats • clock adjustment • laser system control parameters • sequential numbers • password protection system • for both static and dynamic applications.



### TOUCH SCREEN

Connection via RS-232 with ScanLINUX software included on marking laser system • Handheld Terminal emulator • allows control of the laser marking system from a remote touch screen • easy integration • easy and safe operator access for changing messages and parameters on line • for both static and dynamic applications.



### PERSONAL COMPUTER

Connection via TCP/IP (Marca Lite™) or Ethernet TCP/IP (Marca™) with ScanLINUX software included on marking laser system • compatible with all kinds of operating systems Windows NT/Me/2000/XP • able to control the laser marking system from a remote PC • quickly transfer of messages from PC to ScanLINUX • confers powerful graphics capabilities • quick and easy access to the editing and graphics capabilities • able to create messages in all of the marking area • for both static and dynamic applications.



## SOFTWARE FOR LASER SYSTEMS

### SCANLINUX™ V 3.3 INTERNAL SOFTWARE CONTROLLING THE LASER MARKING SYSTEM

ScanLINUX is the internal software running on LINUX managing the laser marking system • controlling laser beam position • calculating printer laser position • controlling angular position of scanner mirrors • calculating corrections for marking on the fly • controlling electronic scanning board input/outputs • ScanLINUX allows the operation of the Handheld, Touchscreen, Marca Lite™ and Marca™ software • ScanLINUX includes Crystal Font™ dot matrix fonts • ScanLINUX software provides the option of changing the menu language of the Handheld terminal. It also allows the user to see the number of marks made during a printing session without going out of the printing menu.



### MARCA LITE™ V 5.3 SOFTWARE FOR NETWORKING, STATIC AND DYNAMIC APPLICATIONS VIA TCP/IP

Easily installed • Software compatible with Windows NT/2000/XP for networking, static and dynamic supplied with protection key • networking capabilities of several laser dynamic application systems via TCP/IP • basic graphic interface able to built in text and graphic in all the marking area • create simple logos • capable of downloading MFF fonts and DXF vector files • selection of the user message via RS-232 • alarm control • messages activated by hourly, daily or monthly changes.



### MARCA™ V 5.3 SOFTWARE FOR HIGH RESOLUTION & STATIC/DYNAMIC APPLICATIONS VIA ETHERNET TCP/IP

Easily installed • Software compatible with Windows NT/2000/XP for high resolution & Marca™ software supplied with protection key • controls laser systems via Ethernet static/dynamic applications TCP/IP • powerful WYSWYG design editor in all the marking area • zoom • unlimited layering • bar codes • 2D barcodes • MFF font editor • character filling features • capable of downloading BMP, JPG, GIF, TIF, PCX and other graphic files • capable of downloading DXF vector files with multiple import options • objects and characters morphing • ODBC (database) features • fill object features • true type text fonts • messages activated by hourly, daily or monthly changes • networking capabilities of several systems via Ethernet TCP/IP • access registration for all the users • creation of reports of the registered marking in the CPU laser memory • synchronization of PC and laser clocks • "auto text" external messages • aligns the selected objects • power, frequency, resolution and speed adjustments by software • allows to configure function keys • Unicote Enable. Allows SHS.

