

Quick Guide

LASERS FOR PACKAGING MARKETS

CO2

| | iCON 3 | SPA 2 C SE Standard Environment | | | | | | | | | | SPA 2 C DE Dusty Environment | | | | | | | | | | SPA 2 C WD Wash-Down Environment | | | | | | | | | | OEM Standard Environment | |
|--|-----------------------------------|------------------------------------|--------|--------------------|------|------|------|--------|--------|--------|--------|---------------------------------|--------|--------------------|--------|--------|-------|--------|--------|--------|-------|-------------------------------------|--------|------------------------|--|------------------------|--|--|--|--|--|-----------------------------|--|
| | | 10 W | 30 W | 10 W | 30 W | 60 W | 80 W | 100 W | 10 W | 30 W | 60 W | 80 W | 100 W | 10 W | 30 W | 40 W | 60 W | 80 W | 100 W | 80p | 125p | 250W | 450W | | | | | | | | | | |
| SYSTEM | Power | 10 W | 30 W | 10 W | 30 W | 60 W | 80 W | 100 W | 10 W | 30 W | 60 W | 80 W | 100 W | 10 W | 30 W | 40 W | 60 W | 80 W | 100 W | 80p | 125p | 250W | 450W | | | | | | | | | | |
| | Technology | CO2 Sealed Tube CW | | CO2 Sealed Tube CW | | | | | | | | | | CO2 Sealed Tube CW | | | | | | | | | | CO2 Sealed Tube Pulsed | | CO2 Sealed Tube Pulsed | | | | | | | |
| WAVELENGTH | 10.6 microns for BIO materials | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | | | | | | | | | | |
| | 10.2 microns for FILM materials | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | 9.3 microns for PET bottles | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| COOLING | Air/Water | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | Air | | | | | | | | | | |
| | Filtered Blower (200m3/h) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | Filtered Blower (350m3/h) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | Cooling Dryer | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | Vortex | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | TCU | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | Chiller | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| WARMING | Warming Blower | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| LENSES without BE for iCON Head | M.Area | WD | FL | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | | | | | | | | | | |
| | 35x35 | 95 mm | 100 mm | 463 | 5.9 | 648 | 9.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| LENSES without BE for XQS Head | M.Area | WD | FL | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | | | | | | | | | | |
| | 40x40 | 60 mm | 65 mm | - | - | - | - | 300.8 | 14.1 | 421.1 | 21.5 | - | - | - | - | - | - | 301 | 14.1 | 421 | 21.5 | - | - | | | | | | | | | | |
| | 60x60 | 95 mm | 95 mm | - | - | - | - | 440.5 | 6.6 | 616.7 | 10.0 | - | - | - | - | - | - | 441 | 6.6 | 617 | 10.0 | - | - | | | | | | | | | | |
| | 75x75 | 115 mm | 125 mm | - | - | - | - | 582.6 | 3.8 | 815.6 | 5.7 | - | - | - | - | - | - | 583 | 3.8 | 816 | 5.7 | - | - | | | | | | | | | | |
| | 100x100 | 165 mm | 160 mm | - | - | - | - | 743.1 | 2.3 | 1040.4 | 3.5 | - | - | - | - | - | - | 743 | 2.3 | 1040 | 3.5 | - | - | | | | | | | | | | |
| LENSES with BE for XQS Head | M.Area | WD | FL | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | | | | | | | | | | |
| | 40x40 | 60 mm | 65 mm | - | - | - | - | 150.4 | 56.3 | 168.4 | 134.6 | 191.4 | 208.5 | 191.4 | 278.0 | 210.5 | 287.2 | 150.4 | 56.3 | 168.4 | 134.6 | 168 | 180 | | | | | | | | | | |
| | 60x60 | 95 mm | 95 mm | - | - | - | - | 220.3 | 26.2 | 246.7 | 62.8 | 280.3 | 97.2 | 280.3 | 129.6 | 308.4 | 133.9 | 220.3 | 26.2 | 246.7 | 62.8 | 247 | 83.7 | | | | | | | | | | |
| | 75x75 | 115 mm | 125 mm | - | - | - | - | 291.3 | 15.0 | 326.2 | 35.9 | 370.7 | 55.6 | 370.7 | 74.1 | 407.8 | 76.6 | 291.3 | 15.0 | 326.2 | 35.9 | 370.7 | 55.6 | | | | | | | | | | |
| | 100x100 | 165 mm | 160 mm | - | - | - | - | 371.6 | 9.2 | 416.2 | 22.1 | 472.9 | 34.2 | 472.9 | 45.5 | 520.2 | 47.1 | 371.6 | 9.2 | 416.2 | 22.1 | 472.9 | 34.2 | | | | | | | | | | |
| | 150x150 | 235 mm | 240 mm | - | - | - | - | 555.3 | 4.1 | 621.9 | 9.9 | 706.7 | 15.3 | 706.7 | 20.4 | 777.4 | 21.1 | 555.3 | 4.1 | 621.9 | 9.9 | 706.7 | 15.3 | | | | | | | | | | |
| | 200x200 | 320 mm | 320 mm | - | - | - | - | 743.4 | 2.3 | 832.6 | 5.5 | 946.1 | 8.5 | 946.1 | 11.4 | 1040.7 | 11.8 | 743.4 | 2.3 | 832.6 | 5.5 | 946.1 | 8.5 | | | | | | | | | | |
| | 250x250 | 430 mm | 410 mm | - | - | - | - | 950.2 | 1.4 | 1064.2 | 3.4 | 1209.4 | 5.2 | 1209.4 | 7.0 | 1330.3 | 7.2 | 950.2 | 1.4 | 1064.2 | 3.4 | 1209.4 | 5.2 | | | | | | | | | | |
| | 500x500 | 700 mm | 720 mm | - | - | - | - | 1670.5 | 0.5 | 1870.9 | 1.1 | 2126.0 | 1.7 | 2126.0 | 2.3 | 2338.6 | 2.3 | 1670.5 | 0.5 | 1870.9 | 1.1 | 1871 | 1.5 | | | | | | | | | | |
| LENSES with BE for HPD Head | M.Area | WD | FL | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | BD | PD | | | | | | | | | | |
| | 40x40 | 55 mm | 65 mm | - | - | - | - | 105.4 | 105.4 | 343.6 | 119.8 | 532.2 | 119.8 | 709.6 | 131.8 | 733.1 | - | 105.4 | 105.4 | 343.6 | 105 | 458 | 119.8 | | | | | | | | | | |
| | 60x60 | 85 mm | 95 mm | - | - | - | - | 153.9 | 153.9 | 161.4 | 174.8 | 249.9 | 174.8 | 333.2 | 192.3 | 344.2 | - | 153.9 | 153.9 | 161.4 | 154 | 215 | 174.8 | | | | | | | | | | |
| | 100x100 | 150 mm | 150 mm | - | - | - | - | 241.6 | 241.6 | 65.4 | 274.6 | 101.3 | 274.6 | 135.1 | 302.0 | 139.6 | - | 241.6 | 241.6 | 65.4 | 242 | 87.2 | 274.6 | | | | | | | | | | |
| | 150x150 | 230 mm | 230 mm | - | - | - | - | 373.3 | 373.3 | 27.4 | 424.2 | 42.5 | 424.2 | 56.6 | 466.6 | 58.5 | - | 373.3 | 373.3 | 27.4 | 373 | 36.5 | 424.2 | | | | | | | | | | |
| | 200x200 | 310 mm | 300 mm | - | - | - | - | 486.4 | 486.4 | 16.1 | 552.7 | 25.0 | 552.7 | 33.3 | 607.9 | 34.4 | - | 486.4 | 486.4 | 16.1 | 486 | 21.5 | 552.7 | | | | | | | | | | |
| | 250x250 | 400 mm | 400 mm | - | - | - | - | 650.9 | 650.9 | 9.0 | 739.7 | 14.0 | 739.7 | 18.6 | 813.6 | 19.2 | - | 650.9 | 650.9 | 9.0 | 651 | 12.0 | 739.7 | | | | | | | | | | |
| | 320x320 | 435 mm | 450 mm | - | - | - | - | 728.8 | 728.8 | 7.2 | 828.2 | 11.1 | 828.2 | 14.9 | 911.0 | 15.3 | - | 728.8 | 728.8 | 7.2 | 729 | 9.6 | 828.2 | | | | | | | | | | |
| | 500x500 | 700 mm | 715 mm | - | - | - | - | 1160.4 | 1160.4 | 2.8 | 1318.7 | 4.4 | 1318.7 | 5.9 | 1450.5 | 6.1 | - | 1160.4 | 1160.4 | 2.8 | 1160 | 3.8 | 1318.7 | | | | | | | | | | |
| LENS OEM | M. Area from 250x250 to 1200x1200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| MARKING HEAD | XQS Internal | - | - | Std. | Std. | - | - | Std. | Std. | - | - | Std. | Std. | - | - | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | | | | | | | | | | |
| | XQS Split | - | - | Opt. | Opt. | Std. | Std. | Opt. | Opt. | Std. | Std. | Opt. | Opt. | Std. | Std. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | HPD Split | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | XQS Split WD (IP65) | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | HPD Split WD (IP65) | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | 3D Marking Head | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| ACCESSORIES MARKING HEAD | Beam Exit at 0° | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Beam Exit at 90° | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | | | | | | | | | | |
| | Split Elbow | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Focal Distance Indicator | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Marking Area Indicator | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Touch Screen TSL-V3 | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| CONTROL | Touch Screen TSL-V3 IP65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | Touch Screen TSL-V3 IP65+ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| | PC with Marca Software | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| SOFTWARE | MarcaTouch OS 2.00 | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | ScanLinux | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | | | | | | | | | | |
| | TCPIP Protocol | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | Std. | | | | | | | | | | |
| | Profinet Protocol | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | OPC-UA Protocol | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Marca Full Graphics PC Softw. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Internal Barcode Generator | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| SAFETY | ElectroMechanical Shutter | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |
| | Performance Level d Safety Kit | - | - | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | Opt. | | | | | | | | | | |

KEY: SE Standard Environment (IP31) DE Dusty Environment (IP54) WD Wash Down Environment (IP55/ IP65) Opt. Optional (Can be ordered as an accessory) Std. Standard (Included as default) FL Focal Length in mm. WD Working Distance in mm. BD Beam Diameter in µm PD Power Density in kW/cm2 Given WD values are approximate / Specifications subject to change without notice / 19" rack option available under request

Optional extras

Cooling and Warming Options

- Blower Unit
- TCU Cooling Blower
- Vortex (Comp. Air)
- Cooling Dryer
- 1 Water Chiller

Software, Control and Communications

- Marca Software for PC
- Touch Screen for SE/DE
- Touch Screen IP65 for WD
- 2 Touch Screen IP65+ with command buttons for WD
- 3 Profinet & OPC-UA

Mechanical Head Kits

- Flange 100 mm
- Flange 200 mm
- Flange 300 mm
- 4 Elbow

Integration and Add-on's

- Photocell Kit
- Encoder Kit
- Alarm Beacon Kit
- Signal Connectors
- Diode Pointer
- Focal Distance Finder
- 5 WorkStation iLASERBOX
- Fume Extractor system
- Laser Support Floor Stand
- Touch Screen Support

Safety

- Electromechanical Shutter
- Performance Level d Safety Kit
- Lens Protection
- Protection Window
- 6 Safety Googles

