

Technical Specification:

F220i	
Laser Type	Pulsed Fibre Laser with adjustable waveform (expected laser source life of over 100,000 hours)
Laser Wavelength	1059 - 1065nm
Laser Power	20W (Maximum Average Output Power)
Pulse Peak Power	More than 12 kW
Marking Features	
Characters per Second	2000*
Product Line speed	600m/min* (1970ft/min*)
Number of Lines of Text	As many as desired
Character Height	0.3mm (0.01in) to size of marking field
Fonts & code types	24 fonts, multi-language including Unicode, logos, bar codes, 2D codes, graphics
Marking Field	118 x 118mm, 229 x 229mm (4.6 x 4.6in, 9.0 x 9.0in)
Focal Length / spot size	160mm (6.3in) / ~70µm, 300mm (11.8in) / ~130µm
User Interface	
Web Browser-based Graphical User Interface (GUI) (optional TouchPanel available) WYSIWYG entry, control language in English, German, French, Czech, Danish, Spanish, Finnish, Greek, Hungarian, Italian, Japanese, Dutch, Portuguese, Polish, Chinese, Korean, Romanian, Russian, Swedish, Slovak, Turkish, Arabic	
Operating System	
Windows CE	
Marking Software	
Dynamark III Laser Marking Software	
Scan Head	
i-Tech Scan Head, mountable in various orientations including axial and radial	
Laser Head	
Stainless steel and anodised aluminium construction	
Weight & Dimensions (approx.)	
Laser Head	6.7kg, 460 x 80 x 141mm (14.8lbs 18.1 x 3.1 x 5.6in)
Laser Head with shutter (WxDxH)	6.9kg, 507 x 80 x 141mm (15.2lbs 20.0 x 3.1 x 5.6in)
Laser Extension Box	21.0kg, 430 x 371 x 154mm (46.3lbs 16.9 x 14.6 x 6.1in)
Controller	14.5kg, 430 x 371 x 154mm (32.0lbs 16.9 x 14.6 x 6.1in)
Fibre and conduit	2.7m (8.9ft) between laser extension box and laser head
Inputs & Outputs	
Product Detect Inputs	NPN / PNP / 24V – Sensor
Product Speed Detect	Shaft Encoder (differential) or Steady Signal
Signal Inputs / Outputs	Laser Ready, Busy Signal, fume extractor control, compressed air control
Interfaces	
RS232, Ethernet (10/100 MBit), USB Port	
Electrical Requirements	
90-264V, 47-63Hz, 1120VA	
Environment	
Controller	Standard Version (air cooled, fan)
Laser extension Box	Standard Version (air cooled, fan)
Laser head	IP65 protected version (no cooling required)
Environmental Standard Operating	Operating Temperature 5° to 40° C (41° to 104° F) / higher temperatures on request. Operating Humidity Max. 90% RH, non-condensing
Options	
Aiming Beam, User Port Kit I/O, Fume Extraction Shroud, Shutter; Connecting Cable Kit 0.5m (1.6ft) optional: 4.5m (14.8ft), 9m (29.5ft), USB Image Backup/Restore Kit, Rack Mounting Kit, Daisy-Chaining, i-Tech RapidScan technology	

All data regarding wave form 0 *Substrate, pitch and code dependent **Dimensions measured overall for shortest version

