

FRACTIONAL TECHNOLOGIES COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Accessories
Alma Lasers					
Pixel 2940	Fractional Er:YAG handpiece for Harmony ^{XL} system	2940 nm	2500 mJ/p	N/A	Pixel 2940 handpiece.
Pixel CO ₂ Pixel Omnitit	Fractional CO ₂ system Pixelized handpiece for existing CO ₂ systems	10,600 nm 10,600 nm	30 W N/A	N/A N/A	7 x 7 and 9 x 9 pixel array handpieces, two surgical handpieces. 7 x 7 and 9 x 9 pixel array configuration.
Cynosure					
Performa	Fractional CO ₂	10,600	30 W	150 µs – 20,000 µs	Selectable functions, multiple spot sizes and shapes, variable spot density, surgical modality.
Affirm with Multiplex	Multi-Wavelength Fractional Anti-Aging Workstation	Nd:YAG 1440 nm and 1320 nm, 560 – 590 nm	Up to 14 J/cm ²	3 ms (fixed)	Xenon pulsed light system and Er:YAG handpiece optional.
DEKA					
SmartXide DOT	CO ₂ Laser and Scanner system	10,600 nm	30 W	From 0.2 ms to 20 ms	Scanner offers standard or DOT scanning mode.
DOT 1540	Er:Glass / Nd:YAP / CW IR Lamp / Pulsed Light	1540 nm / 1340 nm / 750-1800 nm / 500-1200 nm	Up to 32 J/cm ² / up to 37 J/cm ² / up to 65 J/cm ² / up to 25 J/cm ²	10 ms / up to 10 ms / 10 ms / CW / 3-8 ms	Skin rejuvenation, skin tightening and hair removal workstation. Fractional Er:Glass handpiece: 7 mm and 10 mm spot size. CW IR handpiece: skin tightening and collagen shrinkage. Pulsed light handpiece: five removable filters for hair removal. Skin cooling integrated.
Ellipse, Inc.					
Juvia	Fractional CO ₂ Laser	10,600 nm	0.1 – 15 W	N/A	Truly flexible fiber delivery. Built-in parameter controls on handpiece. Adj. scan dwell times: 2 ms, 3 ms, 4 ms, 5 ms, 6 ms, 7 ms. Scan density: 7 x 7; 9 x 9; 11 x 11 MTZ/cm ² . Scan area: 1 cm ² ; MTZ (spot) size: 500 µm. No consumables.
Fotona					
SP Dynamis	Nd:YAG (Pulse and QCW) / Er:YAG	1064 nm / 2940 nm	Up to 600 J/cm ² (pulse), up to 30 W (QCW) / up to 305 J/cm ²	0.1 – 50 ms (pulse), 0.1 – 2.0 ms (QCW) / 0.1 – 1.5 ms, 150 – 250 ms (Smooth Er:YAG)	Er:YAG: 250 µb and 144 mm ² Tx area F-Runner non-ablative / ablative fractional scanner. 4 mm spot and 16 cm ² Tx area S-Runner non-ablative / ablative scanner. Spot sizes: 0.5 - 12 mm and Pixel Screen handpieces. Nd:YAG: spot sizes from 2 - 12 mm; S-11 scanner with 42 cm ² Tx area. Variable Square Pulse (VSP) and Energy Feedback Control (EFC) supported.
SP Dualis	Nd:YAG / Er:YAG	1064 nm / 2940 nm	Up to 400 J/cm ² / up to 3,000 mJ	5 – 200 ms / 0.1 – 1.5 ms	Nd:YAG: spot sizes from 2 - 8 mm. S-11 scanner with 42 cm ² Tx area. Er:YAG: spot sizes from 0.5 - 12 mm and Pixel Screen handpieces; VSP and EFC supported.
XS Dynamis	Er:YAG	2940 nm	Up to 305 J/cm ²	0.1 – 1.5 ms, 150 – 250 ms (Smooth)	250 µb and 144 mm ² Tx area F-Runner non-ablative / ablative fractional scanner. 4 mm spot size and 16 cm ² Tx area S-Runner non-ablative / ablative scanner. Spot sizes from 0.5 - 12 mm and Pixel Screen handpieces. VSP and EFC supported.
XS Fidelis	Er:YAG	2940 nm	Up to 1,000 mJ	0.1 – 1.5 ms	Handpieces with spot sizes from 0.5 - 7 mm and Pixel Screen handpieces; VSP and EFC supported.
General Project					
Pix Scan 2	CO ₂ Fractional Laser	10,600 nm	0.5 - 15 W	N/A	Fractional scanner.
LINLINE GmbH					
MULTILINE	Er:YAG	2936 nm	0.5 – 250 J/cm ²	0.1 – 0.5 ms	Expandable, upgradable, multi-application and multi-technology platform, pre-programmable settings, no disposable costs. Rep. rate: 1–15 Hz, up to 3,000 microspots per cm.
Mattioli Engineering					
Q Fractional	Fractional IPL	560 – 960 nm	30 J/cm ²	15 – 35 ms	Fractional filter 3 mm spots; all skin types; SR handpiece incl., lamp water cooling and low integrated contact cooling (Peltier), 1 sec shot speed; fast collagen regeneration.
Palomar					
StarLux 500 Platform Lux2940 Fractional Lux1540 Fractional Laser handpiece	2940 Laser 1540 Laser	2940 nm 1540 nm	N/A Up to 70 mJ per microbeam	N/A 1 – 500	
LuxDeepIR Fractional Infrared handpiece	Infrared Light	850 – 1350 nm	Up to 175 J	2.5 – 10 sec	
Quanta System					
Matisse	Er:Glass	1540	Up to 250 J/cm ² per MTZ	4 – 14 ms	Contact skin cooling integrated with handpiece. Alexandrite spot sizes: up to 16 mm; rep. rate up to 2 Hz. Nd:YAG 1064 nm long and short pulse spot sizes: up to 12 mm; rep. rate up to 2 and 7 Hz. Nd:YAG 1320 nm (optional) spot sizes: up to 8 mm; rep. rate up to 5 Hz. Nd:YAG 532 and 1064 QS spot sizes: 2x2, 3x3, 4x4, 5x5 mm; rep. rate up to 10 Hz. TWAIN IPL option at 400-1200, 550-950, 570-1200, 590-1200, 625-1200 and 650-1200 nm.
Matisse VT	Er:Glass / Nd:YAG	1540 / 1064, 1320	Up to 250 J/cm ² per MTZ / up to 500 J/cm ² , up to 35 J/cm ²	4 – 14 ms / 0.3 – 300 ms, 5 – 10 ms	
Matisse HR	Er:Glass / Alexandrite	1540 / 755	Up to 250 J/cm ² per MTZ / up to 120 J/cm ²	4 – 14 ms / 3 – 100 ms	
Matisse QS	Er:Glass / QS Nd:YAG	1540 / 532, 1064	Up to 250 J/cm ² per MTZ / up to 11.5 J/cm ² , up to 22.5 J/cm ²	4 – 14 ms / 6 ns	See above.
YouLaser CO ₂ TWIN 2940	CO ₂ Er:YAG	10,600 2940	30 W Up to 100 J/cm ²	0.150 – 20 ms 0.3 – 1 ms	Scanner area: 2.1x2.1 cm (max), Surgical handpieces. Option for ablative fractional resurfacing available for Matisse, Light, Domino and Q-Plus.
Sciton					
ProFractional-XC	Tunable Resurfacing Laser 2940 µm	2940 µm	Up to 400 J/cm ²	Variable for desired ablation and coagulation	Expandable module.
ProFractional	Er:YAG	2940 µm	Up to 400 J/cm ²	Variable for desired effect	Expandable module/density 1.5% to 30%.
Solta Medical					
Fraxel re:store	Erbium-Fiber Laser	1550 nm	4 - 70 mJ/MTZ	N/A	Intelligent Optical Tracking system (IOTS). Variable optical spot size using telescope. Maximizes lesion depth for a chosen pulse energy. Ergonomic handpiece and roller tip. Same as above.
Fraxel re:fine	Single Mode Fiber Laser	1410 nm	5 - 20 mJ/MTZ	N/A	
Fraxel re:pair	Fiber Laser Fractional CO ₂ Laser	10,600 nm	5 - 70 mJ/MTZ	N/A	Built-in smokeless evacuation system. Intelligent Optical Tracking system (IOTS). Ergonomic handpiece and roller tip.
Syneron					
eMatrix Matrix RF eMax Matrix RF eLight Matrix RF eLaser Matrix RF	Fractional Bi-Polar Radiofrequency	N/A	Up to 20 Joules	N/A	Tip with spot size 12 x 12 mm, composed of 64 electrode pins.

Note: Data subject to change; please refer to Company Directory for supplier contact information. Not all devices are FDA cleared for the application(s) indicated.