

FRACTIONAL TECHNOLOGIES COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Price	Accessories
Advanced Technology Laser						
ATL-250	CO ₂	10.6 µm	30 W	1 ms – 1 sec (static mode) 100 µs – 10 ms (dynamic mode)	Contact mfr.	Articulated arm and touch screen display panel. High speed scanner (20 mm x 20 mm). One year warranty.
Alma Lasers						
Pixel 2940	Fractional Er:YAG handpiece for Harmony ^{XL} system	2940 nm	2500 mJ/p	N/A	Contact mfr.	Pixel 2940 handpiece.
Pixel CO ₂	Fractional CO ₂ system	10,600 nm	30 W	N/A	Contact mfr.	7 x 7 and 9 x 9 pixel array handpieces, two surgical handpieces.
Pixel Omnifit	Pixelized handpiece for existing CO ₂ systems	10,600 nm	N/A	N/A	Contact mfr.	7 x 7 and 9 x 9 pixel array configuration.
Asclepion						
MCL30	Er:YAG	2940 nm	Up to 100 J/cm ²	N/A	Contact mfr.	Integrated smoke evacuation.
Dermablate Effect	Er:YAG	2940 nm	Up to 100 J/cm ²	N/A	Contact mfr.	Same as above.
Candela						
QuadraLASE	CO ₂	10,600 nm	30 W	0.1 – 0.8 ms traditional ablation; 2.5 – 16 ms fractional	Contact mfr.	No disposables.
Cutera, Inc.						
Xeo Platform						
Pearl Fractional	Fractional Er:YSGG	2790 nm	60 – 320 mJ per microspot	600 µs	Contact mfr.	Upgradable laser and light multi-application platform. Deep ablation - greater than 1 mm depth. Real time calibration. Smoke evacuator connector.
Cynosure						
Affirm CO ₂	CO ₂ with scanner	10,600 nm	30 W	0.2 – 20 ms (standard), 0.2 – 2 ms (micro ablativ)	Contact mfr.	Scanner (micro ablativ and full ablativ).
DEKA Medical						
SmartXide DOT	Fractional CO ₂	10.6 µm	300 W max	200 µs - 80 ms	\$85,000	Articulated arm and touch control. Hi-scan scanner.
Energist NA						
FRx CO ₂ Laser	CO ₂ Laser	10,600 nm	105 mJ	2-7 ms selectable per shot	Contact mfr.	One year warranty, 1 x fiber, ergonomic scanner. Continuous wave or pulsed CO ₂ laser.
Focus Medical						
NaturaLase Er	Er:YAG	2940 nm	Up to 24 J/cm ²	350 ms	\$79,900	Fractional handpiece with system.
Fotona						
SP Dynamis	Long Pulse Nd:YAG / QCW Nd:YAG / Er:YAG	1064 nm / 2940 nm	Up to 600 J/cm ² / up to 30 W / up to 95 J/cm ²	0.1 - 50 ms / 0.1 – 2 ms / 0.1 – 1.5 ms	Contact mfr.	FDA pending F-Runner fractal scanner: 0.25 mm pixel, 12x14 mm scan area and S-Runner scanner: 4 mm spot, 40x40 mm scan area. Pixel Screen handpieces. Spot sizes: Er:YAG: 0.5-12 mm, Nd:YAG 2-10 mm; S-11 scanner: 42 cm ² Tx area. Surgical kits; bare silica fibers: 600 µm core size. Variable Square Pulse (VSP) and Energy Feedback Control (EFC) supported.
SP Plus	Nd:YAG / Er:YAG	1064 nm / 2940 nm	Up to 600 J/cm ² , 50 J / up to 3,000 mJ	0.1 - 300 ms / 0.1 – 1.5 ms (Er:YAG)	Contact mfr.	Nd:YAG spot sizes: 2-12 mm; S-11 scanner: 42 cm ² Tx area. Er:YAG spot sizes: 0.5-12 mm, Pixel Screen handpieces; VSP and EFC supported.
SP Dualis	Nd:YAG / Er:YAG	1064 nm / 2940 nm	Up to 400 J/cm ² , 20 J / up to 3,000 mJ	5 - 200 ms / 0.1 – 1.5 ms	Contact mfr.	Nd:YAG spot sizes: 2-8 mm; S-11 scanner: 42 cm ² Tx area; Er:YAG spot sizes: 0.5-12 mm, Pixel Screen handpieces; VSP and EFC supported.
XS Dynamis	Er:YAG	2940 nm	Up to 95 J/cm ²	0.1 – 1.5 ms	Contact mfr.	FDA pending F-Runner fractal scanner: 0.25 mm pixel 12x14 mm scan area and S-Runner scanner: 4 mm spot 40x40 mm scan area. Pixel Screen handpieces, Er:YAG spot sizes: 0.5-12 mm. VSP and EFC supported.
XS Dualis	Er:YAG	2940 nm	Up to 3,000 mJ	0.1 – 1.5 ms	Contact mfr.	Er:YAG spot sizes: 0.5-12 mm, Pixel Screen handpieces; VSP and EFC supported.
XS Fidelis	Er:YAG	2940 nm	Up to 1,000 mJ	0.1 – 1.5 ms	Contact mfr.	Er:YAG spot sizes: 0.5-7 mm, Pixel Screen handpieces; VSP and EFC supported.
LASERING^{USA}						
MiXto SX	CO ₂	10.6 nm	0.5 – 30 W	2.5 to 16 ms	Contact mfr.	Patent pending. 300 micron spot scanner. 5% to 40% density adj. Optional 180 micron spot scanner.
Velure S5 MiXto VX	Diode	532 nm	0.1 – 5 W	10 – 1,000 ms	Contact mfr.	MiXto VX fractional scanner. Focusing handpieces with spot sizes of 0.3 mm, 0.5 mm, 1.5 mm.
Lumenis						
UltraPulse ActiveFX	Fractional CO ₂	10,600 nm	1 – 225 mJ	< 1 ms	Contact mfr.	CoolScan handpiece delivers telecentric, collimated and UltraPulse mode with 1.3

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.

FRACTIONAL TECHNOLOGIES COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Price	Accessories
Lumenis (continued)						
UltraPulse DeepFX	Fractional CO ₂	10,600 nm	2.5 – 50 mJ	< 1 ms	Contact mfr.	mm spot size delivery system. 120 microns (0.12 mm) spot size delivery system with up to 2 mm penetration depth and 600 Hz. Collimated single spot handpiece, focused incisional handpieces, UltraFlex Wave Guides. AcuScan 120 for deep fractional, FeatherTouch and SilkTouch handpieces.
UltraPulse TotalFX	Fractional CO ₂	10,600 nm	1 – 225 mJ	< 1 ms	Contact mfr.	
AcuPulse	CO ₂	10,600 nm	Max. 100 W to tissue	< 1 ms	Contact mfr.	
Lutronic						
eCO ₂	Fractional CO ₂	10,600 mm	2 – 240 mJ	0.2 – 9.50 ms	Contact mfr.	Intuitive and informative user interface, no consumables, dual mode operation, static and dynamic. Spot sizes: 120, 300 and 1,000 microns. Spot densities from 25 to 400 microns, repetition rate up to 200 Hz. Up to 14 x 14 mm scanning areas, multiple scanning shapes.
Palomar						
StarLux 500 Platform						
Lux2940 Fractional	2940 Laser	2940 nm	N/A	N/A	Contact mfr.	
Lux1540 Fractional Laser handpiece	1540 Laser	1540 nm	Up to 70 mJ per microbeam	1 – 500	Contact mfr.	
LuxDeepIR Fractional Infrared handpiece	Infrared Light	850 – 1350 nm	Up to 175 J	2.5 – 10 sec	Contact mfr.	
Quantel Derma GmbH						
EXELO ₂	CO ₂	10,600 nm	30 W	2 – 100 ms, pulsed and CW		Scanner up to 20 x 20 mm, variable spot densities up to 400 pts/cm ² , optional surgical handpiece, integrated smoke evacuator, optional skin cooling.
FX4 and FX12 handpieces	Er:YAG	2940 nm	Up to 2 J (XL up to 2.5 J)	350 μs (XL 350 μs up to 260 ms)		Optional fractional handpieces FX4 and FX12 for BURANE.
Sandstone Medical Technologies						
Matrix LS-25	CO ₂ Laser	10,600 nm	25 W	Adjustable to 100 ms	\$50,000	Ultrafine-FS fractional scanner, 150 mm focusing handpiece.
UltraFine-FS Fractional Scanner	Fractional Scanner (adapts to most CO ₂ lasers)	10,600 nm	N/A	N/A	\$19,995	Fractional scanner.
Sciton						
ProFractional-XC	Tunable Resurfacing Laser (TRL)	2940 nm	Up to 400 J/cm ²	Variable	Contact mfr.	Expandable module.
ProFractional	Er:YAG	2940 nm	Up to 400 J/cm ²	Variable	Contact mfr.	Expandable module/density 1.5% to 30%.
SharpLight						
Omnimax	Er:YAG Fractional RF Fractional Infrared Fractional	2940 nm 10-50 W 5-80	13 mJ			Multi-technology platform combines laser, RF and IR. Skin cooling with DPC forming. Spot sizes: 6.4 cm ² , 1.5 cm ² . Six different RF heads.
Solta Medical						
Fraxel re:store DUAL	Dual Erbium Fiber and Thulium Fiber Laser	1550 nm, 1927 nm	Up to 70 mJ/MTZ, up to 20 mJ/MTZ	N/A	Contact mfr.	Intelligent Optical Tracking system (IOTS) adjusts to hand speed and ensures uniform Tx. Maximized lesion depth for chosen pulse energy. Variable optical spot size using telescope. Zimmer cooling integrated into handpiece.
Fraxel re:fine	Single Mode Fiber Laser	1410 nm	5 – 20 mJ/MTZ	N/A	Contact mfr.	Same as above.
Fraxel re:pair	Fractional CO ₂ Laser	10,600 nm	5 – 70 mJ/MTZ	N/A	Contact mfr.	Built-in smokeless evacuation system. Intelligent Optical Tracking system (IOTS). Ergonomic handpiece and roller tip.
Syneron						
eMatrix Sublative Rejuvenation eMax Sublative Rejuvenation eLight Sublative Rejuvenation eLaser Sublative Rejuvenation	RF Electrical Energy	N/A	Up to 20 J	N/A	Contact mfr.	Spot size 12 x 12 mm, three year warranty.

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.