

FRACTIONAL TECHNOLOGIES COMPARISON CHART

Supplier Product Name	Device Type	Wavelength (nm)	Energy Output (Joules)	Pulse Length	Price	Accessories
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.
Cutera, Inc.						
Pearl Fractional	Fractional 2790 nm YSGG	2790 nm	60 – 320 mJ per microspot	600 ms	Contact mfr.	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 ablative)	Contact mfr.	Scanner (micro ablative and full ablative).
EclipseMed						
SmartXide DOT	CO ₂ Laser and Scanner System	10,600 nm	30 W	From 0.2 – 80 ms	Contact EclipseMed	Scanner offers standard or DOT scanning mode.
Ellipse, Inc.						
Juvia	Fractional CO ₂ Laser	10,600 nm	0.1 – 15 W	N/A	Contact mfr.	Truly flexible fiber delivery. Built-in parameter controls on handpiece. Adjustable 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.
Focus Medical						
NaturaLase Er	Er:YAG	2940 nm	Up to 24 J/cm ²	350 ms	\$74,900	Fractional handpiece with system. 100-150 micron spots size. Up to 8 Hz.
Fotona						
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	Contact supplier	Nd:YAG spot sizes: from 2 to 12 mm; S-11 Nd:YAG scanner with 42 cm ² Tx area; Er:YAG handpieces: spot sizes from 0.5 to 12 mm and Pixel Screen Technology handpieces; Variable Square Pulse (VSP) and Energy Feedback Control (EFC) technology 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 supplier	Nd:YAG handpiece: spot sizes from 2 to 8 mm; Nd:YAG scanner with 35 x 60 mm Tx area; Er:YAG handpieces: spot sizes from 0.5 to 12 mm and Pixel Screen Technology handpieces; VSP and EFC technology supported.
XS Dualis	Er:YAG	2940 nm	Up to 3,000 mJ	0.1 – 1.5 ms	Contact supplier	Er:YAG handpieces with spot sizes from 0.5 to 12 mm and Pixel Screen Technology handpieces; VSP and EFC technology supported.
XS Fidelis	Er:YAG	2940 nm	Up to 1,000 mJ	0.1 – 1.5 ms	Contact supplier	Er:YAG handpieces with spot sizes from 0.5 to 7 mm and Pixel Screen Technology handpieces; VSP and EFC technology supported.
LASERING^{USA}						
MiXto SX	CO ₂	10.6 nm	0.5 – 30 W	2.5 to 16 ms	\$79,000	Patent pending MiXto SX fractional scanner system. 300 micron spot scanner for optimal heat delivery and collagen production. 5% to 40% density adj. Optional 180 micron spot scanner for deep ablation and skin tightening.
Velure S5 MiXto VX	Diode	532 nm	0.1 – 5 W	10 – 1000 ms	\$53,900	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.	Single, minimal downtime Tx for wrinkle/pigment results.
UltraPulse DeepFX	Fractional CO ₂	10,600 nm	2.5 – 50 mJ	< 1 ms	Contact mfr.	Fractional CO ₂ Tx for wrinkles, scars and deep collagen treatment.
UltraPulse TotalFX	Fractional CO ₂	10,600 nm	1 – 225 mJ	< 1 ms	Contact mfr.	Blended fractional CO ₂ Tx for customized patient outcomes.
Lutronic						
eCO ₂	CO ₂	10.6 mm	240 mJ	10.56 ms	Contact mfr.	
Palomar						
StarLux 500 Platform	2940 Laser	2940 nm	N/A	N/A	Contact mfr.	
Lux2940 Fractional	1540 Laser	1540 nm	Up to 70 mJ per microbeam	1 – 500	Contact mfr.	
Lux1540 Fractional Laser handpiece	Infrared Light	850 – 1350 nm	Up to 175 J	2.5 – 10 sec	Contact mfr.	
LuxDeepIR Fractional Infrared handpiece						
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.

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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. Fractional scanner.
UltraFine-FS Fractional Scanner	Fractional Scanner (adapts to most CO ₂ lasers)	10,600 nm	N/A	N/A	\$19,995	
Sciton						
ProFractional-XC	Tunable Laser 2940 µm	2940 µm	Up to 400 J/cm ²	Variable	Contact mfr.	Expandable module.
ProFractional	Tunable Laser 2940 µm	2940 µm	Up to 400 J/cm ²	Variable	Contact mfr.	Expandable module/density 1.5% to 60%.
Solta Medical						
Fraxel re:store	Erbium-Fiber Laser	1550 nm	4 - 70 mJ/MTZ	N/A	Contact mfr.	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	Contact mfr.	
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 Matrix RF eMax Matrix RF eLight Matrix RF eLaser Matrix RF	RF Electrical Energy	N/A	Up to 20 J	N/A	Contact mfr.	Spot size 12 x 12 mm, three year warranty.

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