



VI TECHNICAL CHARACTERISTICS

3. Lazerio tipas CO2 lazeris

CO2 LASER GENERATOR

WAVELENGTH	4. Lazerio bangos ilgis	→ 10600nm(±10%) (infra-red far ray)
CO2 tube POWER		40W
MAXIMUM ACCESSIBLE POWER		40W in CW
OUTPUT POWER RANGE		
CW, Pulse:		1 to 30W (±20%)
Fine Pulse:		190 to 300W (±20%)
Super Pulse:		145 to 175W (±20%)
STABILITY		±15%
DIVERGENCE AT THE CO2 TUBE LASER OUTPUT		0.03°
NOMINAL OCULAR HAZARD DISTANCE (N.O.H.D)		1.5m
MAXIMUM PERMISSIBLE EXPOSURE (M.P.E)		9960mJ cm^{-2} at the cornea 100mW cm^{-2} at the skin
STRUCTURE OF THE MODE		TEM00
LASER CONFIGURATION		Sealed-off CO2 tube
ESTIMATED LIFESPAN OF THE TUBE		1000 hours
MODE OF EXCITATION		High voltage
MODE OF EXPOSURE		
CW, Pulse:		2.5ms to 500ms
Fine Pulse:		0.1ms to 0.9ms
Super Pulse:		1.0ms to 2.4ms
RAY TRANSMISSION SYSTEM		Arm with 7 articulated joint. ←

9. Šarnyrinė ranka su 7 šarnyrais

8. Pagalbinis spindulys

AIMING BEAM (SEMICONDUCTOR LASER DIODE) Mažiau nei 5mW, reguliuojamas

POWER	Less than 5mW (adjustable) ←
WAVELENGTH	635 - 650nm (visible)
CONTROL FUNCTION	Between 0 and 100%, in 10 steps

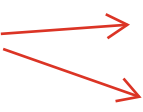
OPERATING AND CONTROL

LASER EMISSION	Foot-switch
INDICATION DISPLAY	11. Ekranas
CONTROL OF LASER OUTPUT	Colour touchscreen 8.5in Spalvotas 8.5 colio Foot-Switch, Ready, Switch key, Emergency stop button.
DISPLAY OF LASER OUTPUT	Laser radiation icon and acoustic signal.

**FRACTIONAL SCANNER****5.1 Frakcinis**

MARKING TECHNOLOGY	Vector (laser beam that is moved by galvanometric mirrors)
MARKING FIELD	20x20mm to the nominal focal length (5") and 12x12mm to the nominal focal length (2.5")
REFLECTIVITY	>98%
NOMINAL SWEEP ANGLE	$\pm 6^\circ$
ERROR	< 5 mrad
ZERO OFFSET	< 5 mrad
NON-LINEARITY	< 4 mrad
REPEATABILITY	< 8 μ rad

SURGICAL MODE**5.2 Chirurginis**

HAND PIECES	Rankenėlės	
		Haemostatic cut, focus 100mm distance (spot from 0.2 to 0.3mm).
		Fine cut, focus 50mm distance (spot from 100 to 150microns).

DERMA MODE**5.3 Dermatologinis (DERMA)**

FIGURES	Square, triangle, hexagon, circle, ring
FIGURE DIMENSIONS	From 5 to 20mm with 1mm increments (spot $\geq 500\mu\text{m}$) and from 2.5 to 12mm with 0.5mm increments (spot $< 190\mu\text{m}$)
SEPARATION BETWEEN SPOTS	From 0.5 to 2mm with 0.1mm increments (spot $500\mu\text{m}$) and from 0.5 to 2mm with 0.05mm increments (spot $190\mu\text{m}$).
LASER ABLATIVE	Spot 500microns.
HAND PIECES	Spot 500 μm .
	Spot 190 μm .

**GENERAL TECHNICAL CHARACTERISTICS**

Uždara sistema skysčiu.

COOLING SYSTEM	10.Lazerio aušinimas	Liquid cooling system (sealed closed circuit)
POWER SOURCE		220-240 Vac / 50-60Hz
COMSUMPTION		250VA
OPERATING MODE		CW / Pulsed
FUSES		3.15A 250V Time delay
OPERATING TEMPERATURE RANGE		20-25°C
ENVIRONMENT AMBIENT HUMIDITY		45-75%
OPERATING ENVIRONMENT PRESSURE		1050-800 (mbar)
STORAGE AND TRANSPORT TEMPERATURE		5-45°C
AVERAGE DIMENSIONS		32x42x128cm (width, depth, height with creased arm)
WEIGHT		50kg
WORKING RADIOUS WHEN THE ARM IS FULLY SPREAD		140cm
TURNING ANGLE OF THE TRANSMISSION SYSTEM		360°