



Limax® 1064

the latest generation in laser technology

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The microprocessor controlled Limax® 1064 for laser surgery excels with its cutting-edge diode-pumped Nd:YAG technology

This laser unit emits infrared (wavelength 1,064 nm) laser light with an output of up to 100 watts. The user can operate with a variety of laser fibers and applicators.

For purged applicators (purged fibers / focusing handpieces), the Limax® 1064 is equipped with an integrated inlet for purge air. The purge gas dispels the emerging smoke and cools the tissue. This greatly facilitates working with the laser system.

The control of the gas flow is physically integrated with the housing and accessed via the same user interface as the laser parameters.

The beam is guided either by the focusing handpieces or bare fibers, both autoclavable, or by single-use fibers.

The reusable 400 µm supply fiber and the focusing handpiece deliver high energy density, thus ensuring rapid vaporization, resection, and coagulation. The special wavelength specific fiber is connected to the unit with an SMAplus plug.

The diode-pumped Nd:YAG technology ensures a constant numeric aperture of <0.22 across the entire power range. This allows for a wide range of fiber diameters, from 300 µm up to 600 µm.

The user interface comprises a rotary push button and 8.4-inch color display. The software offers up to 50 customizable programs.

The main areas of application for the Limax® 1064 are dermatology and vascular surgery.



Laser unit and accessories

79-052-00-04	Limax® 1064 laser system	80-181-90-04	Sterile filter for gas purging, single-use, sterile
79-100-56-04	Laser safety goggles, universal, ND:YAG, CO2, DIODE	79-100-31-04	Connection tubing 25 cm, Limax® to fiber
78-201-10-04	Focusing handpiece, autoclavable	79-120-00-04	Flyer
79-302-40-04	Supply fiber, autoclavable, core diameter 400 µm, 3 m	79-050-01-04	Flyer holder arm for Limax®
78-201-14-04	Cleaning tray for Limax® focusing handpiece	80-060-00-04	marVAC® smoke evacuation, 220-240 VAC
79-700-30-04	Bare fiber, universal, single use, 300 µm	80-060-00-10	marVAC® smoke evacuation, 100-127 VAC
79-700-40-04	Bare fiber, universal, single use, 400 µm	80-061-00-04	marVAC® smoke evacuation, lap-mode, 220-240 VAC
79-700-60-04	Bare fiber, universal, single use, 600 µm	80-061-00-40	marVAC® smoke evacuation, lap-mode, 100-127 VAC
79-700-41-04	Bare fiber, universal, autoclavable, 400 µm	79-800-02-04	Interlink cable marVac® to Limax®
79-700-61-04	Bare fiber, universal, autoclavable, 600 µm	80-060-01-04	Main filter for marVac®, ULPA
79-700-45-04	Gas purged fiber, 400 µm, 5 pcs.		
79-111-00-04	Fiber preparation set		
78-300-10-04	Handle for fiber holder		
78-300-01-04	Spare part set, handle		
78-310-05-04	Tip with bending mandrel, 5 cm		
78-310-08-04	Tip with bending mandrel, 8 cm		
78-310-13-04	Tip with bending mandrel, 13 cm		
78-310-18-04	Tip with bending mandrel, 18 cm		
78-310-23-04	Tip with bending mandrel, 23 cm		
78-310-28-04	Tip with bending mandrel, 28 cm		
78-310-01-04	Fitting with Luer-lock port		
78-215-03-04	Air hose Limax® to ZGVA Dräger 5 m		

Note: Country-specific power cables available on request

Country-specific air hoses available on request

Specifications

Laser type	Diode-pumped Nd:YAG laser	
Wavelength	1,064 nm	
Laser output power	5 W – 100 W	
Pulse type	Continuous pulse Single-pulse: Pulse On time: 0.1 sec to 10 sec Pulse train, adjustable Pulse On time: 0.1 sec to 10 sec Pulse Off time: 0.1 sec to 10 sec	
Pilot laser wavelength	635 nm	
Pilot laser power	5 mW, continuous-wave (CW) or pulsed Brightness control 2% - 100%	
Beam guide	Laser fibers, focusing handpiece	
Beam quality	Numerical laser aperture 0.22	
Laser fiber connection	SMAplus socket, mechanically encoded SMA socket	
Control and monitoring	2 microprocessors	
User interface	Rotary push button and membrane keypad, 8.4-inch color display	
Cooling	Compressor - air cooled	
Power supply	115 – 240 VAC; 50 Hz 115 – 120 VAC; 60 Hz	
Rated current	15 A max. 13 A max.	
Fuse	2 x T 16 AH, 500 V	
Power input	1,800 W max.	
Laser class	4	
Protection class	I	
Protection type	IP 20	
Classification acc. to German Medical Devices Act (MPG)	IIb	
Pilot laser	3R	
Sound intensity during operation	Sound intensity: idling 50 dB(A), under full load 59 dB(A)	
AIR purging	Integrated gas flow control	
Gas fitting	Compressed air (AIR), medical quality, 5 bar (72.5 psi) max., NIST fitting (AIR)	
Dimensions	Width	50 cm
	Height	107 cm
	Depth	59 cm
Weight	Surgical laser unit with water	95 kg
Shipping and storage conditions (without cooling water)	Ambient temperature	-15°C to +50°C
	Relative humidity (non-condensating)	10% – 90%
	Atmospheric pressure	-700 hPa to 1,060 hPa (0.7 bar to 1.06 bar)
Shipping and storage conditions (with cooling water)	Ambient temperature	+4°C to +50°C
	Relative humidity (non-condensating)	10% – 90%
	Atmospheric pressure	700 hPa to 1,060 hPa (0.7 bar to 1.06 bar)
Ambient conditions during operation	Ambient temperature	+15°C to +30°C
	Relative humidity (non-condensating)	30% – 85%
	Atmospheric pressure	700 hPa to 1,060 hPa (0.7 bar to 1.06 bar)
CE 0297	Complies with directive 93/42/EEC	
Safety inspection (STK)	Mandatory once a year	

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