



## Limax<sup>®</sup> 1064

The latest generation in laser technology

## Limax® 1064

### The latest technology in laser surgery

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 <math><0.22</math> across the entire power range. This allows for a wide range of fiber diameters.

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 <sup>®</sup> 1064 laser system
79-100-56-04	Laser safety goggles, universal, ND:YAG, CO2, DIODE

78-201-10-04	Focusing handpiece, autoclavable
79-302-40-04	Supply fiber, autoclavable, core diameter 400 µm, 3 m
55-803-72-04	Washing tray for focusing handpiece and autoclavable supply fiber, 24 x 25 x 4 cm, complete, preconfigured, incl. lid
78-215-05-04	Silicone rinsing tube for the supply fiber
79-700-40-04	Bare fiber, universal, single use, 400 µm
79-700-60-04	Bare fiber, universal, single use, 600 µm
79-700-61-04	Bare fiber, universal, autoclavable, 600 µm
79-700-45-04	Gas purged fiber, 400 µm
79-111-00-04	Fiber preparation set

79-311-00-04	Fiber holder handle FlexPen 2.0
79-311-03-04	Tuohy-Borst adapter (pack of 25, sterile, single use)
79-311-01-04	Short attachment tip for clip-on applicator
80-060-02-04	Clip-on applicator for smoke evacuator
79-311-02-04	7-cm attachment tip with suction (2-piece: suction tube and internal fiber guide tube)
79-311-10-04	10-cm attachment tip (incl. bending mandrel)
79-311-30-04	30-cm attachment tip (incl. bending mandrel)

78-215-03-04	Air hose Limax <sup>®</sup> to ZGVA Dräger 5 m
--------------	--

Country-specific air hoses available on request

80-181-90-04	Sterile filter for gas purging, single-use, sterile
79-100-31-04	Connection tubing 25 cm, Limax <sup>®</sup> to fiber
79-120-00-04	Flyer
79-050-01-04	Flyer holder arm for Limax <sup>®</sup>

80-060-00-04	marVAC <sup>®</sup> smoke evacuation, 220-240 VAC
80-060-00-10	marVAC <sup>®</sup> smoke evacuation, 100-127 VAC
80-061-00-04	marVAC <sup>®</sup> smoke evacuation, lap-mode, 220-240 VAC
80-061-00-40	marVAC <sup>®</sup> smoke evacuation, lap-mode, 100-127 VAC
79-800-02-04	Interlink cable marVac <sup>®</sup> to Limax <sup>®</sup>
80-060-01-04	Main filter for marVac <sup>®</sup> , ULPA

Note: Country-specific power cables 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 ( <b>AIR</b> ), medical quality, 5 bar (72.5 psi) max., NIST fitting ( <b>AIR</b> )
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)	Recommended once a year

## KLS Martin Group

### **KLS Martin Australia Pty Ltd.**

Sydney · Australia  
Tel. +61 2 9439 5316  
australia@klsmartin.com

### **KLS Martin do Brasil Ltda.**

São Paulo · Brazil  
Tel. +55 11 3554 2299  
brazil@klsmartin.com

### **KLS Martin Medical (Shanghai) International Trading Co. Ltd.**

Shanghai · China  
Tel. +86 21 5820 6251  
china@klsmartin.com

### **KLS Martin India Pvt Ltd.**

Chennai · India  
Tel. +91 44 66 442 300  
india@klsmartin.com

### **Martin Italia S.r.l.**

Milan · Italy  
Tel. +39 039 605 67 31  
italia@klsmartin.com

### **Nippon Martin K.K.**

Tokyo · Japan  
Tel. +81 3 3814 1431  
nippon@klsmartin.com

### **KLS Martin SE Asia Sdn. Bhd.**

Penang · Malaysia  
Tel. +604 505 7838  
malaysia@klsmartin.com

### **Martin Nederland/Marned B.V.**

Huizen · The Netherlands  
Tel. +31 35 523 45 38  
nederland@klsmartin.com

### **Gebrüder Martin GmbH & Co. KG**

Moscow · Russia  
Tel. +7 499 792-76-19  
russia@klsmartin.com

### **Gebrüder Martin GmbH & Co. KG**

Dubai · United Arab Emirates  
Tel. +971 4 454 16 55  
middleeast@klsmartin.com

### **KLS Martin UK Ltd.**

London · United Kingdom  
Tel. +44 1189 000 570  
uk@klsmartin.com

### **KLS Martin LP**

Jacksonville · Florida, USA  
Tel. +1 904 641 77 46  
usa@klsmartin.com

### **Gebrüder Martin GmbH & Co. KG**

#### **A company of the KLS Martin Group**

KLS Martin Platz 1 · 78532 Tuttlingen · Germany  
P.O. Box 60 · 78501 Tuttlingen · Germany  
Tel. +49 7461 706-0 · Fax +49 7461 706-193  
info@klsmartin.com · www.klsmartin.com



07.18 · 90-999-02-05 · Printed in Germany · Copyright by Gebrüder Martin GmbH & Co. KG · Alle Rechte vorbehalten · Technische Änderungen vorbehalten  
We reserve the right to make alterations · Cambios técnicos reservados · Sous réserve de modifications techniques · Ci riserviamo il diritto di modifiche tecniche