

NINJA LASER

INNOVATORS BY DESIGN



SINCE 1770

 **KEYLINE**

Innovators by design | Since 1770

A BIANCHI 1770 GROUP COMPANY



Ninja Laser combines the mechanical and electronic precision to guarantee unique key cutting performances and quality through two different technologies: a double speed prismatic cutter and an end milling cutter to cut with maximum efficiency door and automotive edge cut keys, laser keys and Tibbe keys by code, decode or depths.

Ninja Laser is designed to better meet the requirements of the professional thanks to the mixture of these two technologies, which allows the combination of maximum cutting precision together with exceptional performance, at the same time guaranteeing extended use of the parts of the key cutting machine.

One of the highlights of the Ninja Laser is the AC clamp that combines in one unique solution one clamping system to cut most of the laser keys in the market. This innovation expands the wide range of clamps – from the four sided functional one for door and automotive edge cut keys to the Tibbe systems – and makes Ninja Laser the standard key cutting machine to duplicate every model of automotive keys, as well as edge cut door keys, present in the market.

The modern and functional design guarantees maximum ergonomics to assure the use of Ninja Laser in all work places.

The Liger software developed by Keyline stands out for its capacity to process every cutting system and easily receive software updates. Complex operations are made extremely simple and intuitive thanks to the modern color interface, which is simple and easy to learn.

Ninja Laser is standard equipped with a USB port, LAN ports and serial ports.

TECHNICAL FEATURES

	Flat Key Side	Laser Key Side
Power Supply	90-130V 50-60Hz / 220-240V 50-60Hz	
Electronic Equipment	Mainboard with ARM Cortex A8 CPU, 256 MB RAM, NAND 1 GB memory, high resolution axes control	
External Connections	2 USB 2.0 ports; 2 RS232 serial ports; 1 LAN port	
Key Reading / Decoding System	Electric contact	
Lighting	LED - lighted cutting bay	
Movements / Axes	2 stepper motor-operated axes	
Clamps	4 faces (more clamps are available for specific markets)	Clamp AC (clamps A, B, C, D, H, V are available)
Gauge	Automatic gauge unlock through the movement of the axes	
Motor	Asynchronous, 0.18 Kw	DC electronic motor
Cutter	In Widia $\varnothing$ 63 mm	In Widia $\varnothing$ 2,5 mm
Cutter Speed	1500-3000 rpm (variable speed according to the programmes)	6000 rpm
Absorption	250W (35W in stand-by)	
Dimensions	Width: 340 mm / Depth: 415 mm / Height: 300 mm	
Weight	20 Kg	

CONSOLE TECHNICAL FEATURES

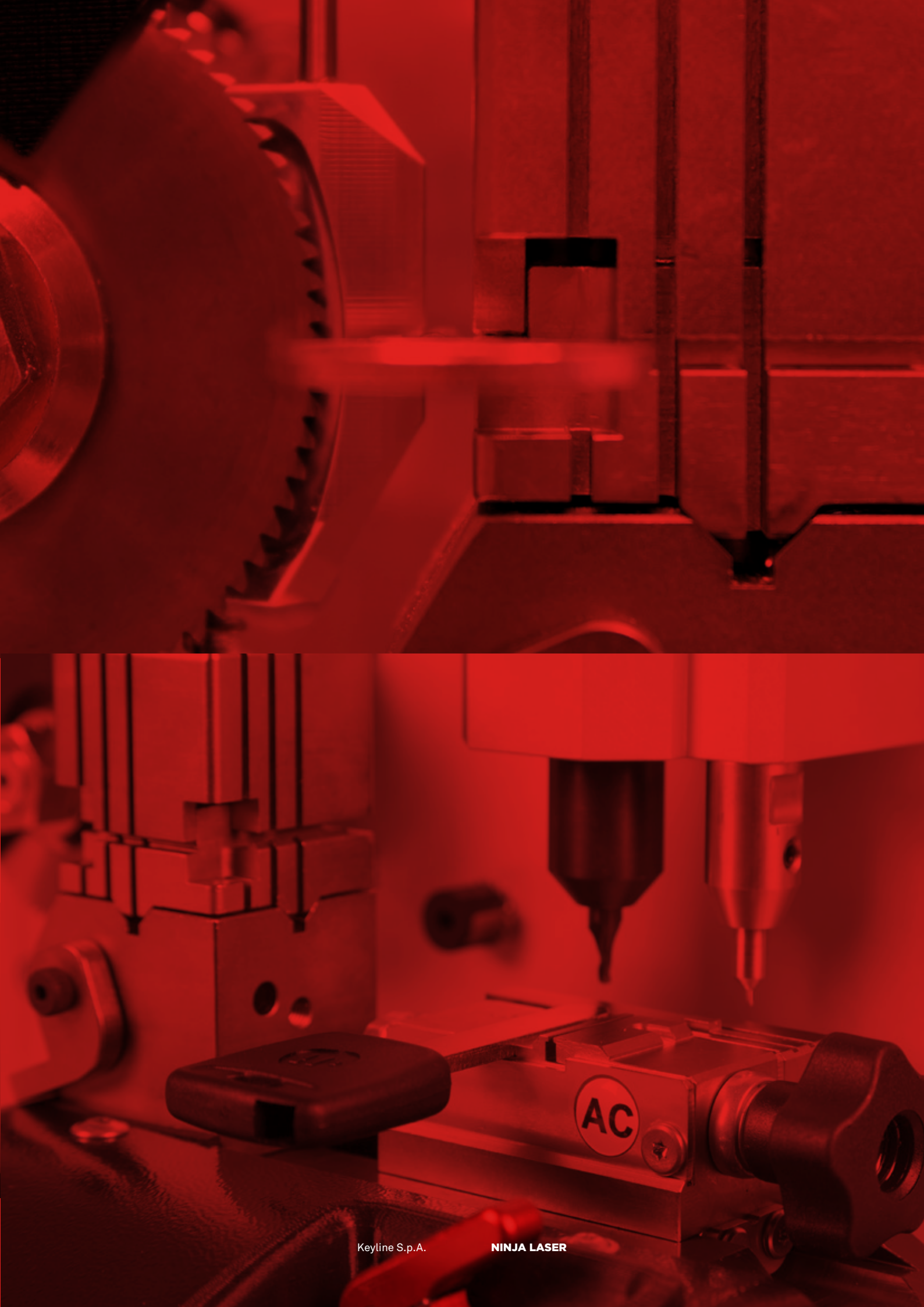
Power Supply	DC 24V (fed by the key cutting machine)
User Interface	7" industrial colour touch screen, 16:10, resolution 800x480 px, VGA

More versions for specific markets are available.



Ford and Jaguar
Ford (福特) 和 Jaguar (捷豹)





Ninja Laser结合了机械和电子精密这两种不同的技术，从而可以保证钥匙的切割性能和品质：双速棱柱形刀具和立铣刀，通过编码、解码或深度以最高的效率切割门和汽车平齿钥匙、镭射钥匙和Tibbe钥匙。

得益于这两项技术的结合，Ninja Laser可以更好地满足专业需求，最高的切割精度与卓越的性能相结合，同时保证钥匙机部件可以长时间使用。

Ninja Laser的亮点之一就是结合独特的解决方案，以一个夹紧系统配制市场上大部分的镭射钥匙。此次创新拓展了夹具的适用范围—四面中的一面用于门和汽车平齿钥匙Tibbe系统—使得Ninja Laser成为了配制目前市场上所有型号的汽车钥匙以及门钥匙的标准钥匙机。

前卫和功能性的设计符合人体工程学，从而保证可以在任何工作环境中使用Ninja Laser。

Keyline开发的Liger软件突出代表了处理每个钥匙切割系统和方便接收软件更新的能力。得益于其时尚前卫、易于上手的彩色界面，使得原本复杂的操作变得简单。

Ninja Laser配置了USB端口，LAN端口和串行端口。

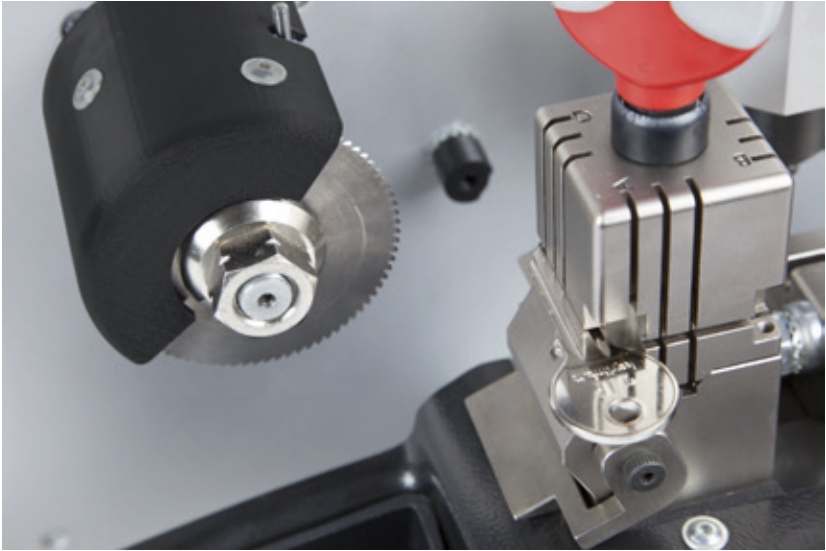
技术特点

平齿钥匙面		镭射钥匙面	
电源90-130V 50-60Hz / 220-240V 50-60Hz			
电子配置		主板装有ARM Cortex A8 CPU, 256 MB随机存取存储器, 与非1GB内存，高分辨率轴控制	
外部连接		2个USB 2.0，2个RS232串行端口，1个LAN	
密钥读取/解码系统		电接点	
照明		工作区LED照明	
运动/轴		由渐进引擎引导2轴	
夹钳	4面 (还有更多针对特定市场的版本)	ジョーAC（ジョーA, B, C, D, H, V が利用できる）	
量规	通过轴转动打开自动计量器		
引擎	异步的0.18 千瓦	DC電子モーター	
切刀	上Widia ø 63 毫米	上Widia ø 2,5 毫米	
刀速	1500-3000 rpm (速度根据程序变化)	6000 rpm	
耗电量		250瓦（35瓦待机）	
尺寸		宽度: 340 毫米 / 深度: 415 毫米 / 高度: 300 毫米	
重量		20 公斤	

控制台技术特点

电源	DC 24V;包括电源适配器
用户界面	7寸工业彩色触摸屏，16:10，分辨率800x480 px，VGA

提供针对特定市场的多个版本。



To find the distributor closest to your company,
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