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ILC
BENCH TOP
laser wire strippers

ILC BENCH TOP

LASELEC

komax

ILC
BENCH TOP

The ILC Bench Top provides a high-precision cut on a very broad range of wire insulations, with no risk of damaging the shield or conductor. It assures accuracy and continuous quality.

Operating the ILC Bench Top is safe and straightforward: simply select the stripping program manually or scan a barcode and insert a wire. The stripping process starts automatically.

A
> 12 mm
> 0.47"

B
< 12 mm
< 0.47"

C
< 10 mm
< 0.39"

D
< 8 mm
< 0.31"

THE BEST SOLUTION FOR
COMPLEX WIRE / CABLE CONSTRUCTIONS
OUT OF ROUND WIRES AND CABLES
HIGH DEMANDING APPLICATIONS

THE BENEFITS

– Quick processing of all types of wires and cables that can be difficult to strip
– Premium quality strip
– No risk of damaging the conductor or shield
– Operator independent process
– Poke and strip configuration (trigger sensor)
– Compact all-in-one design
– Minimal maintenance with simple cleaning operations

ROTARY LASER DESIGN WITH PREMIUM STRIPPING QUALITY
NO RISK OF DAMAGING THE CONDUCTOR OR SHIELD

Versatile

Equipped with a high-accuracy laser rotary cutting head, the ILC Bench Top can process multiple wire gauges without compromising the cut quality. Programmed capabilities, without wire holder requirements, ensure fast and simple changes from one wire to another (different gauge, different construction). The high power, high stability infrared laser source is able to process most insulation materials, including coaxial cable dielectric, or multilayer composite outer jacket.

Special features for enhanced productivity

The longitudinal (straight or spiral) slit feature helps to remove insulation on the most challenging wire and cable. The ILC is also able to create window strips.
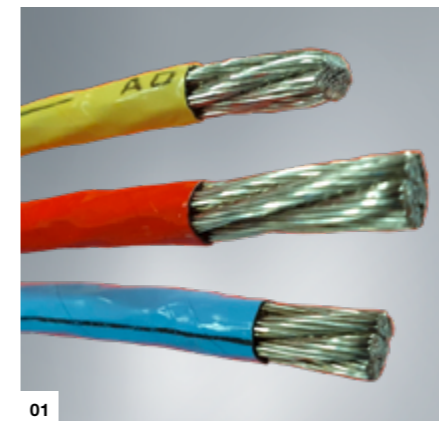
User-friendly

EasyCutting Config, the user-friendly Windows based software (comes standard), helps to manage the different stripping settings and create simple 1-cut or complex multi-step stripping programs (including sequence programs).
Stripping programs can be transferred using QR codes, making the device setup and adjustment fast and simple. Once loaded into the ILC Bench Top unit, stripping programs are selected manually or by scanning a barcode.
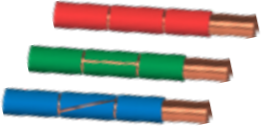
Low maintenance

Maintenance is limited to regular cleaning operations. All necessary tools are provided and stored in the integrated maintenance tray.

01
High precision stripping of ultra sensitive out of round cables
02
Short insertion length and ergonomic design
03
Integrated tray with maintenance tools

01

02

03

ILC BENCH TOP
MODELS

ILC-20/8 BTS	ILC-30/20 BTS
20-watt laser source Outer diameter: 0.5 to 7.8 mm / 0.02 to 0.31 in Integrated motorized wire insertion barrel	30-watt laser source Outer diameter: 4 to 20 mm / 0.16 to 0.8 in (best suited for 8 - 20 mm / 0.3 – 0.8 in) Manual barrel with safety insertion guides

Circular cuts, straight slits, spiral slits

The high-accuracy rotary laser design provides the highest quality results on out of round and shielded cables.
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Technical characteristics

Wire size range OD	ILC-20/8: 0.5 – 7.8 mm / 0.02 to 0.31 in ILC-30/20: 4 - 20 mm / 0.16 to 0.8 in (best suited for 8 - 20 mm / 0.3 – 0.8 in, other on request)
Stripping length	0 – 115 mm / 0 – 4.5 in
Axial slit length (BTS version)	65 mm max. – 2.5 in max.
Wire insertion	ILC-20/8: motorized barrel with wire insertion guides ILC-30/20: manual barrel with safety insertion guides
Insertion length (distance between entry point and laser cut)	ILC-20/8: 21 mm ILC-30/20: 26 mm for Ø <8 mm, 41 mm for Ø <10 mm, 101 mm for Ø <12 mm, 141 mm for Ø ≥12 mm
Cycle start	Automatic trigger sensor
Laser cut type	Circular cut, axial slit, spiral strip, window
Laser type and power	ILC-20/8: 20-watt infrared CO_2 laser ILC-30/20: 30-watt infrared CO_2 laser
Insulation material	PTFE, Polyimide, ETFE, X-ETFE, FEP, Fiberglass, etc. PVC only with suitable filtering and suction system
Interface	3.5" color screen, USB, RJ45
Program configuration	Via EasyCutting Config (Windows software)
Ambient temperature	+15°C to +35°C / 59°F to 95°F
Humidity	< 85%, not condensing
Noise level	< 75 dB (depends on fume extraction level)
Dimensions (W x H x D)	167 x 470 x 560 mm / 6.6 x 18.5 x 22 in
Weight	34 kg / 75 lbs
Electrical connection	90 – 230 VAC / 50-60 Hz
Electrical consumption	< 500 W
Air supply	6 bar / 90 psi, dry and oil-free
Fume extraction	38 mm / 1.5" in hose connector, air flow required > 150m3/h / 90 cfm
Conformity	CE, FDA, FCC, Class 1 laser in normal operation
Standard	EN2812, SAE AIR6894

Accessories and options

Fume extractor

High capacity fume extractor (thick insulation)

Fume extractor for PVC applications

Fume extractor replacement filters

QR Code and barcode reader

Special wire guides for small and soft wires

Foot pedal

Shuttle case

Extended warranty

Komax – leading the field now and in the future

As a pioneer and market leader in the field of automated wire processing, Komax provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax manufactures series and customer-specific machinery for various industries, catering to every degree of automation and customization. Its range of quality tools, test systems, and intelligent networking solutions complete the portfolio, and ensure safe and efficient production.
Komax is a globally active Swiss company with development and production facilities on several continents. Komax uses its extensive distribution and service network, which includes local companies and their employees, to support customers across the world on site, thus ensuring the availability and value of their investments after equipment commissioning through standardized service processes.

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