

Laser processing solutions



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INDUSTRIAL GROUP TURNOVER

THE COMPANY

Cutlite Penta was founded in 1992 as a division of the El.En. group, and began construction of the first machines to cut wood and plastic materials using resources that were **designed and constructed at El.En.**

The group grew steadily over the years, expanding both in the industrial and medical sectors.

El.En. Group is a well-established Italian company, listed on both the Italian and US stock exchanges, with a market capitalisation of almost €1.34 billion.

Cutlite Penta forms part of the industrial division of the El.En. Group, and has manufacturing and sales facilities around the world: Italy, France, China, and Brazil.

To date, it employs over 850 people as direct employees of the industrial group, includes over 5,500 laser machines equipped with fiber laser sources installed worldwide, and over $80,000 \, \text{m}^2$ of manufacturing space.

Long-running, well developed experience combined with a profound knowledge of the dynamics of metal cutting have allowed us to become a standard for our customers.

The industrial group, which had a total turnover of €63 million in 2016, has been growing at a dynamic pace, reaching a turnover of €150 million by the end of 2020.

In December 2022, the industrial group closed the year with a total turnover of €235,000,000.



MISSION

Cutlite Penta's objective has always been to create systems that guarantee high levels of productivity and quality with low running costs, enabling its customers to be extraordinarily competitive.

Cutlite Penta's **R&D department**, which is continually developing its cutting head, proprietary CNC and front-end software, ensures that Cutlite Penta systems are always state-of-the-art.

Flexibility, speed, simplicity of use and ease of familiarisation, are the distinctive features of this new family of systems that will place our customers in a position of being market leaders.

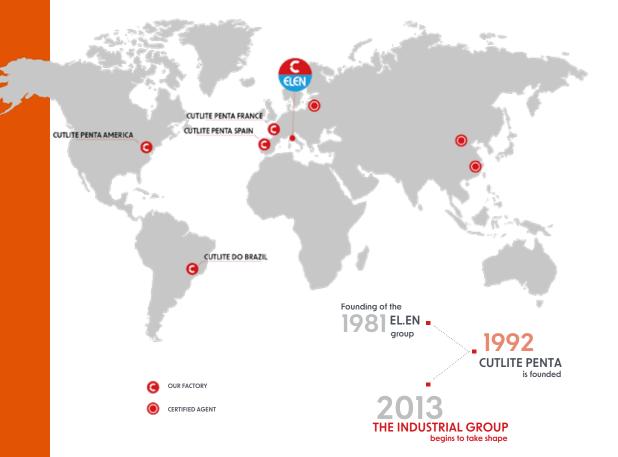
OUR FIGURES

YEARS OF EXPERIENCE AND KNOW-HOW AT YOUR DISPOSAL

850 employees

80.000 m²

manufacturing areas



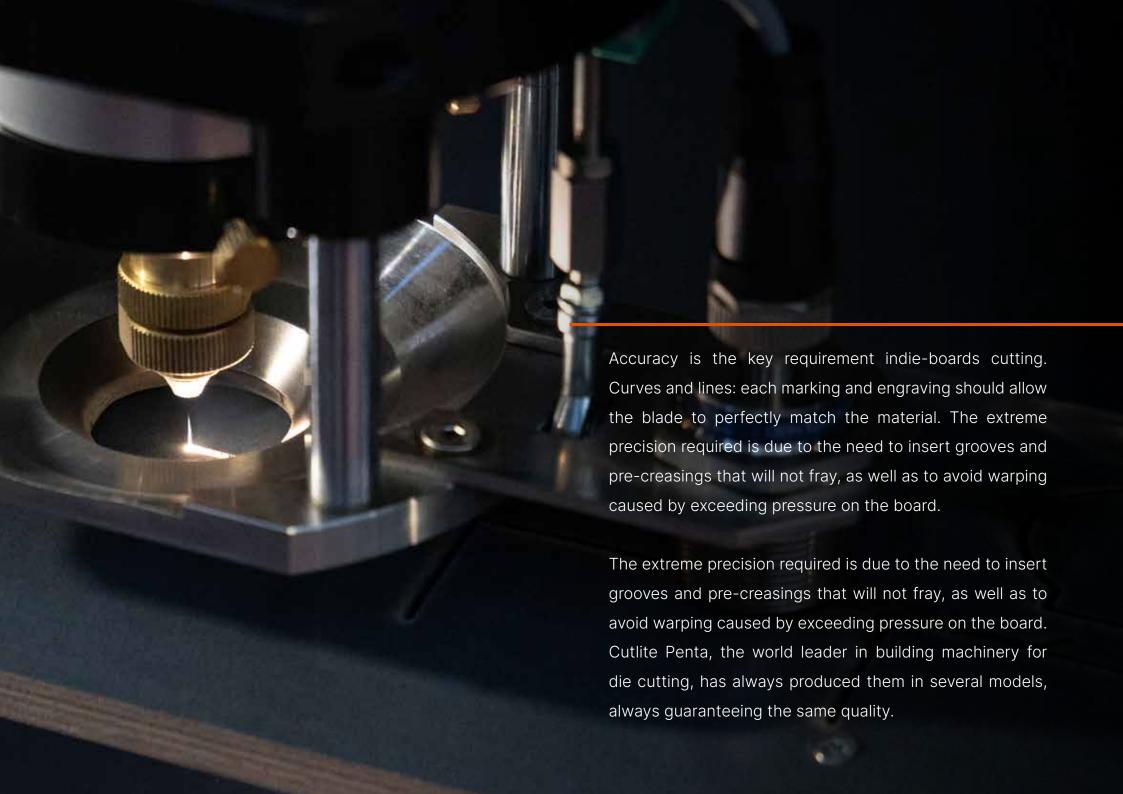
Based on El.En. Group's decades of experience with CO2 laser sources, we have transferred and perfected this advanced, multi-disciplinary know-how from the field of CO2 laser technology to the field of **FIBER LASER TECHNOLOGY.**

By partnering with the world's largest manufacturer of laser sources, IPG Photonics, we have access to the best fiber laser sources to develop fast, high-power machines.



FLAT BED SYSTEMS

- LTF
 Small Footprint & Great Running Costs Saving
- **LTFP**The latest achievement for Flat-Bed lasers
- OF
 A Classic Model Revamped with the Digital Technology



WORKING AREA UP TO **2100×1500 mm**

POWER UP TO

1555 W





The LTF system is the **most compact model** of the Cutlite Penta production range for diemaking, since it represents the right solution for diemakers and in-house dieshops. The cutting area available are mostly two, 1750×1350mm and 2200×1550mm, two sizes suitable for every kind of folding carton die.

The system motion is given by a movable bridge, on which the laser source is installed, which runs along the X-axis, and a cutting head running along the Y-axis. The LTF system can be equipped with **El.En. manufactured radiofrequency sources**, with powers ranging from 750W to 850W besides the cutting head of the LTF system, it is possible to install a marking head that allows marking codes and/or logos on the die-board. Thanks to its combination of cutting head and marking head, the LTF system can quarantee short times to carry out finished **dieboards**.

CP Nozzle

Completely in-house built, our standard cutting head is fully integrated with our digital technology and it's featured with a unique-in-the-market double collar magnets for a safe and quick break-away system in case of collisions and crashes with any hurdle.

Furthermore the down-holder has a unique design which works in combination with the complex algorithms embedded in our software SMART MANAGER 6 with the automatic board unevenness compensation.

CP Steel Plus

A brand-new CUTLITE PENTA design, based on 30 years experience on metal cutting, CP STEEL PLUS is a revolutionary capacitive head that, in combination with special features integrated with our software SMART MANAGER 6, allow to a quick swapping from plywood to metal and viceversa.

This new release also add a unique system of magnetic break-away for plywood cutting, keeping intact the cutting head and the down-holder in case of crashes or collision.

Laser Sources

The RF class resonators produced by our mother company EL.EN count more than 100 installations worldwide due the very reduced footprint of the resonator itself, the unique in the market small and cost effective gas canister and the proven radiofrequency based technology which makes this laser source ideal for a stable and constant diemaking kerf cutting.

Strengths

Small and compact: Its footprint is slightly larger than its working area.

Full of technology: Digital CNC, drivers.

All in one: electrical unit, laser source, integrated control panel.

Easy and fast installation: in one day the machine is ready to start

production.

LASER SOURCES
RF 777
RF 888
RF 1222
RF 1555

LASER POWER
750 W
850 W
1200 W
1500 W

1700×1300mm 2100×1500mm

HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on front-end software;
- Continuous production screening;
- Easier zero position acquisition.

BOX NESTER

- In-house designed software;
- Software Nesting Module for raw material's saving and drastic scrap reduction (2 or more files can be merged in 1);
- User friendly interface.

CP COPPER

- Solid Copper Pins for a superior lifespan;
- Stable and not laser reflective.

CP CODE

- Easy-to-use software front-end;
- Easy editing of QR codes;
- Accurate codes engraving;
- CP SCAN is required.

CP SCAN

- Marking of logos and texts on plywood and paper;
- Size 500×500mm (largest one in the market);
- Ease to use in-house built software;
- Extremely accurate.





LTFP

The **LTFP** is stable, accurate, easy to use, customizable with a wide array of options; these are just few of the key-points of this model. This model has been designed and conceived for modern dieshops who needs a compact versatile laser. The Optical Path is very short and compact with just one deflection mirror (pressurized and liquid cooled) which make this machine unsurpassed in terms of accuracy and maintenance. The magnetic linear drives on X axis allow to reach high acceleration on rapid axes displacement.

This model is equipped with Rofin Sinar SLAB3 resonator, a unique Magnetic Crash Protection on the cutting head; the largest marking tool available in the market and much more. No matter if focus is on folding or corrugated cardboard, LTFP is always the right choice with two different table sizes available and a wide catalogue of options who can make this laser fully customized on different production needs.

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Strengths

Small and compact: Its footprint is slightly larger than its working area

Full of technology: Digital CNC, drivers

All in one: electrical unit, laser source, integrated control panel

LASER SOURCES
DC 010
DC 015
RF 1555
DC 020
DC 025

LASER POWER
1000 W
1500 W
1500 W
2000 W
2500 W

WORKING AREA
1700×1500mm
2100×1500mm
2500×1500mm
3000×1500mm

HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on frontend software;
- · Continuous production screening;
- Easier zero position acquisition.

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- In-house designed software;
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- Extremely accurate.

CP COPPER

- Solid Copper Pins for a superior lifespan;
- Stable and not laser reflective.

CP FEED

- Automatic Feeding Process;
- Fast & Efficient;
- Reduction of Downtime in loading/ unloading boards;
- "Two-Levels" Board Feeding.

CP CAM

- Superb active nesting system;
- Digital Camera system for nesting calculations;
- Drastic plywood wastage reduction.

CP LOAD PLUS

- Straight-forward board loading with popup skating rollers;
- Easy and fast board allocation on the cutting bed.

CP CLAMP

- Pneumatic system;
- Superior board holding;
- User friendly;
- Simple to remove or change.

CP GLASS

- Inductive Linear Scale;
- Superior accuracy on axis displacement (XY);
- Immediate on-screen reading positioning.

CP CODE

- Easy-to-use software front-end;
- · Easy editing of QR codes;
- Accurate codes engraving;
- CP SCAN is required.

CP DUST

- Perfect Cutting Bed Cleaning from Scraps;
- Easy to handle;
- Fast & Save Scrap Removal Device.

CP GREASE

- Automatic system for Rails Lubrication;
- No Maintenance or Pitstop required for planned lubrication;
- Easy-to-use tank check up and refilling.



OF

The **OF** 2515 model is the most wanted technology for diemaking lasers. With countless installations worldwide, OF has been developed and implemented alongside the years with brand new features and technologies. It has been designed to be suitable for folding and corrugated cardboards dieboards sizes. It can be equipped with several add-ons and special extra designed for this model.

The cross-table technology ensures very **high accuracy** and very long machine's lifespan. OF can be equipped with Rofin SLAB 3 from 1000 up to 3000 Watts.

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Laser Sources

The RF class resonators produced by our mother company EL.EN count more than 100 installations worldwide due the very reduced footprint of the resonator itself, the unique in the market small and cost effective gas canister and the proven radiofrequency based technology which makes this laser source ideal for a stable and constant diemaking kerf cutting.

Strengths

Small and compact: Its footprint is slightly larger than its working area

Full of technology: Digital CNC, drivers

All in one: electrical unit, laser source, integrated control panel

LASER SOURCES
DC 010
DC 015
RF 1555
DC 020
DC 025

LASER POWER
1000 W
1500 W
1500 W
2000 W
2500 W

2500×1500mm 3000×1500mm

HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on frontend software;
- Continuous production screening;
- Easier zero position acquisition.

BOX NESTER

- In-house designed software;
- Software Nesting Module for raw material's saving and drastic scrap reduction (2 or more files can be merged in 1);
- User friendly interface.

CP SCAN

- Marking of logos and texts on plywood and paper;
- Size 500×500mm (largest one in the market);
- · Ease to use in-house built software;
- Extremely accurate.

CP COPPER

- Solid Copper Pins for a superior lifespan;
- Stable and not laser reflective.

CP PUSH

- Easy holding on pushing for "dove-tails" board;
- Ideal for large corrugated board;
- Easy and reliable.

CP CODE

- Easy-to-use software front-end;
- Easy editing of QR codes;
- Accurate codes engraving;
- CP SCAN is required.

CP LOAD PLUS

- Straight-forward board loading with popup skating rollers;
- Easy and fast board allocation on the cutting bed.

CP CLAMP

- Pneumatic system;
- Superior board holding;
- User friendly;
- Simple to remove or change.

CP GLASS

- Inductive Linear Scale;
- Superior accuracy on axis displacement (XY);
- · Immediate on-screen reading positioning.

CP MILL

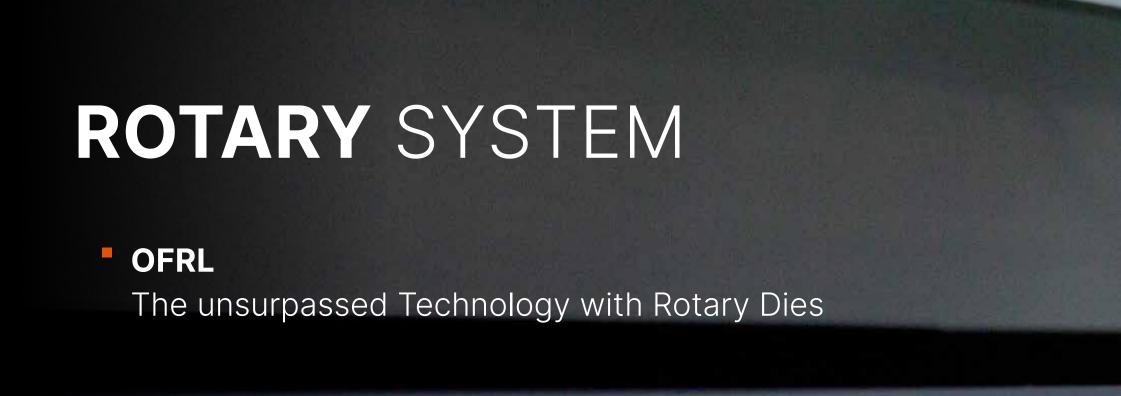
- High Frequency Spindle;
- Z Axis digitally controlled;
- 6 Bit Changer (Posilock, Evol-Dies, Washers, Serrapid, Pocketing);
- Bit Length Sensor integrated;
- Additional Shell Surface Sensor.

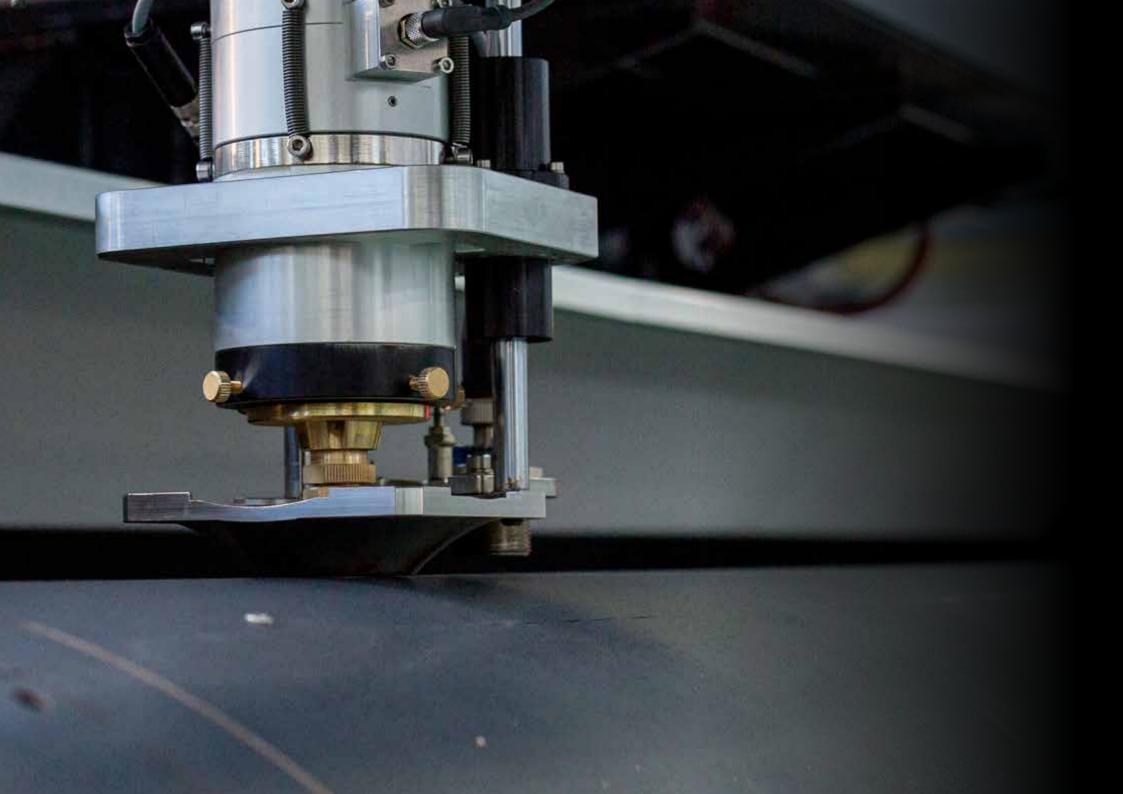
CP CAM

- Superb active nesting system;
- Digital Camera system for nesting calculations;
- Drastic plywood wastage reduction.

CP GREASE

- Automatic system for Rails Lubrication;
- No Maintenance or Pitstop required for planned lubrication;
- Easy-to-use tank check up and refilling.





174-808 mm

POWER UP TO

3000 W



OFRL

The new **OFRL** rotary laser cutting system sums up and meets all needs of the modern rotary dieshop.

The OFRL model can cut rotary dies up to 3,000 mm of length, with a diameter ranging from 174 mm up to 808 mm, with laser sources with a power ranging from 2000W up to 3500W by Slab3 Rofin Sinar. OFR is equipped with our digital technology and a wide array of options in order to process the most recent applications on rotary dies.

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Strengths

Small and compact: Its footprint is slightly larger than its working area

Full of technology: Digital CNC, drivers

All in one: electrical unit, laser source, integrated control panel

LASER SOURCES
DC 020
DC 025
DC 030

LASER POWER
2000 W
2500 W
3000 W

DIAMETER

174-808 mm

WORKING AREA
3080 mm

HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on frontend software;
- · Continuous production screening;
- Easier zero position acquisition.

CP MILL

- High Frequency Spindle;
- Z Axis digitally controlled;
- 6 Bit Changer (Posilock, Evol-Dies, Washers, Serrapid, Pocketing);
- Bit Length Sensor integrated;
- Additional Shell Surface Sensor.

CP ROTUP PLUS

- Make-Ready "offline" device for quick and safe screwing of rotary shells on the disc supports;
- Laser pointer integrated to make, the location of the screwing points on the shells, easier and faster;
- On-board swivelling system to spin the shell for a faster screwing avoiding wasted times during the set-up;
- Same clamping adopted on the laser machine.

CP SCAN

- Marking of logos and texts on plywood and paper;
- Size 500×500mm (largest one in the market);
- Ease to use in-house built software;
- Extremely accurate.

CP MSD

- Digital Sensor for detection of the metal screw on the shell avoiding crashes/ collisions during the milling process;
- Integrated on Z axis for a superior accuracy;
- Automatic process thanks to a dedicated algorithm.

CP CODE

- Easy-to-use software front-end;
- Easy editing of QR codes;
- · Accurate codes engraving;
- CP SCAN is required.

COMBO SYSTEM

LTF DUO

The most Compact Laser in with the most recent technology on-board

OFPRL

The Advantage of the Flexibility for the most demanding Die-Shops



3000×1500 mm

POWER UP TO

3000 W



LTF 3015 DUO is compact, powerful, modular, this model convinces for its original design and confirms the main successful features of the LTF standard model with the attachment for the rotary part.

This particular laser fits every size for folding and corrugated cardboard for flat-bed (3050×1550mm), plus all the diameters (from 174 up to 808mm) and lengths (up to 3000mm) for rotary; it can be equipped with **Rofin laser sources from 2000W up to 3000W**. It represents the perfect investment for every size of die-shop who aims a daily production of flatbed and rotary dies. A wide array of options are available for flatbed and rotary systems (CP SCAN, CP MILL, etc), options which change your idea of production. Fast, reliable, compact, easy to use, LTF 3015 DUO is the choice.

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Strengths

Small and compact: Its footprint is slightly larger than its working area

Full of technology: Digital CNC, drivers

All in one: electrical unit, laser source, integrated control panel

LASER SOURCES
DC 020
DC 025
DC 030

LASER POWER
2000 W
2500 W
3000 W

DIAMETER 174-808 mm



HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on frontend software;
- · Continuous production screening;
- Easier zero position acquisition.

BOX NESTER

- In-house designed software;
- Software Nesting Module for raw material's saving and drastic scrap reduction (2 or more files can be merged in 1);
- User friendly interface.

CP SCAN

- Marking of logos and texts on plywood and paper;
- Size 500×500mm (largest one in the market);
- Ease to use in-house built software;
- Extremely accurate.

CP COPPER

- Solid Copper Pins for a superior lifespan;
- Stable and not laser reflective.

CP CODE

- Easy-to-use software front-end;
- Easy editing of QR codes;
- Accurate codes engraving;
- CP SCAN is required.

CP LOAD PLUS

- Straight-forward board loading with popup skating rollers;
- Easy and fast board allocation on the cutting bed.

CP CLAMP

- Pneumatic system;
- Superior board holding;
- User friendly;
- Simple to remove or change.

CP DUST

- Perfect Cutting Bed Cleaning from Scraps;
- · Easy to handle;
- Fast & Save Scrap Removal Device.

CP GLASS

- Inductive Linear Scale;
- Superior accuracy on axis displacement (XY);
- Immediate on-screen reading positioning.

CP MILL

- High Frequency Spindle;
- Z Axis digitally controlled;
- 6 Bit Changer (Posilock, Evol-Dies, Washers, Serrapid, Pocketing);
- Bit Length Sensor integrated;
- Additional Shell Surface Sensor.

CP GREASE

- Automatic system for Rails Lubrication;
- No Maintenance or Pitstop required for planned lubrication;
- · Easy-to-use tank check up and refilling.

CP CAM

- · Superb active nesting system;
- Digital Camera system for nesting calculations;
- · Drastic plywood wastage reduction.

CP ROTUP PLUS

- Make-Ready "offline" device for quick and safe screwing of rotary shells on the disc supports;
- Laser pointer integrated to make, the location of the screwing points on the shells, easier and faster;
- On-board swivelling system to spin the shell for a faster screwing avoiding wasted times during the set-up;
- SSame clamping adopted on the laser machine.

OFPRL

WORKING AREA 3000×1500 mm

POWER UP TO

3000 W



OFPRL

OFPRL is the best of two technologies merged in one. OF and OFR powered by one single **Rofin SLAB3 resonator**.

The killing application of this system is the chance of taking advantage of the performances of the two machines at first stage with one single resonator and at later stage split the two machines adding a second resonator having two stand alone machines. This combo lasers brings all the benefits of the models OF/OFR and all the related options. In fact OfprI can be equipped with all the "bells & whistles" taking the diemaking technology from Cutlite Penta at its very best.

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LASER SOURCES
DC 020
DC 025
DC 030

LASER POWER
2000 W
2500 W
3000 W

WORKING AREA
2500×1500 mm
3000×1500 mm

HARDWARE SOLUTIONS

CP EYE

- Digital camera system installed on frontend software;
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SMART MANAGER 6

Smart Manager 6 has been developed to fully exploit the potential of state-of-the-art cutting systems and ensure that all Cutlite Penta products achieve top performances.

The interface improves the already remarkable simplicity and immediacy of operations during daily use. The new software is thus now even more intuitive and easier to manage.

Some of the most recent innovations introduced by Smart Manager:

- Automatic acquisition of plate edges
- Scheduling
- Cutting Lost
- Fast Piercing
- Smart Focus
- Auto Power Off
- Raster Module

SMART COMPOSER

The new and revolutionary software by Cutlite Penta interfaces directly with the numerical control of the machine and with the front-end **Smart Manager software**.

- Geometric entities
- Profile verification
- RASTER images
- Fiducial markers
- Orders management with different materials
- Micro-joints
- Couplings and outputs management
- Cut sorting
- Cut sorting with minimum heating
- Fly cut
- Smart Composer Camera
- Simulator
- Film cutting management
- CP Code





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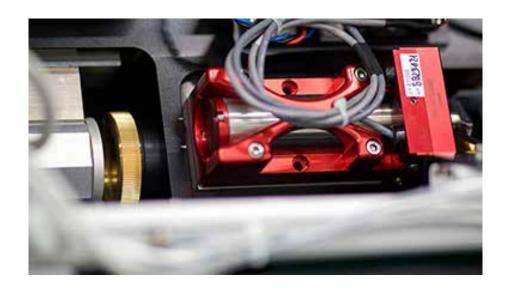
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- Stable and not laser reflective.



CP MILL

- High Frequency Spindle;
- Z Axis digitally controlled;
- 6 Bit Changer (Posilock, Evol-Dies, Washers, Serrapid, Pocketing);
- Bit Length Sensor integrated;
- Integrated tool gauge.



CP GLASS

- Inductive Linear Scale;
- Superior accuracy on axis displacement (XY);
- Immediate on-screen reading positioning.



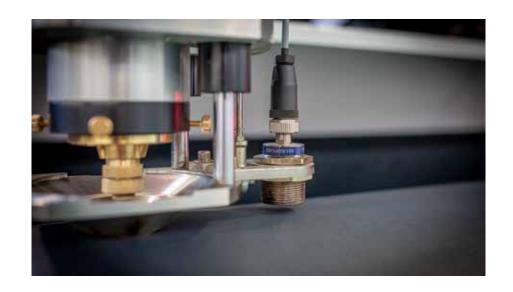
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- Easy and reliable.



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- Integrated on Z axis for a superior accuracy;
- Automatic process thanks to a dedicated algorithm.



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- Automatic Feeding Process;
- Fast & Efficient;
- Reduction of Downtime in loading/unloading boards;
- "Two-Levels" Board Feeding.

HARDWARE SOLUTIONS	LTF	LTFP	OF	OFRL	LTF DUO	OFPRL
CP EYE	V	V	V	V	V	V
BOX NESTER	V	V	√	√	V	√
CP LOAD PLUS	X	V	√	X	V	√ *
CP CLAMP	X	V	V	X	V	√ *
CP SCAN	V	V	V	√	V	V
CP COPPER	V	V	V	X	V	√ *
CP MILL	X	V	V	√	V	V
* CP GLASS	X	V	V	X	V	V
CP CODE	V	V	V	√	V	V
CP PUSH	X	X	V	X	X	√ *
CP MSD	X	X	X	V	V	V
CP ROTUP PLUS	X	X	X	√	V	V
CP CAM	X	V	V	X	V	V
CP DUST	X	V	X	X	V	X
CP GREASE	X	V	V	V	V	V
CP FEED	X	V	X	X	V	X

^{*} Inductive



Each Cutlite Penta system is not only made of steel and digital circuits.

Each system is the brainchild of its designer, who determines the configuration of the machine; it is the vision of the computer scientist who creates intuitive commands and controls; it is the experience of the technician who selects quality materials. Each nut, bolt and bracket embodies the hard work and sweat of those who fashion our machines from bare lumps of metal every day. The ink in the stamp of a sale embodies the sales personnel, who have a profound understanding of customer needs.

Each machine is the beating heart of a company, it represents the knowledge of those who dedicate their daily efforts to achieving a goal.

Our passion is to be found in each machine.

And we want to share this with you.



Delio Patrizio Mugnaioni
CEO Cutlite Penta

ENGLISH



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