LASERPACK

LASER STRUCTURING

AM

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LASERPACK - In modern packaging different used materials and more and more elaborated packaging, demand the use of more and more specialized and innovative technologies during several process phases from base material to finished product, full of high—added-value surface treatments.

Fundamental elements in converting process, are the easy-opening, micro perforation, sealing and variable codification, operations mostly solved by mechanical wholly solutions aiming exclusively at big volumes, while about small-medium ones LASER technology has emerged as innovative solution in case of requests of fragmented lots, just in time productions further to a costs holding down.

In this strip of market LASER technology, joining traditional cutters, brings a series of indisputable benefits such as an higher utilization flexibility, no shapes containment, the capacity of processing onto different material typologies (also multilayer couplings), executing all processings always at print's register, as well as the possibility to process both off-line and in-line onto packaging machines. Further benefits of laser technology are represented by reduced set-up times, further to the possibility to change and effect in real time codifications including logos, alphanumeric codes, bar codes or data-matrix, originated by external DATABASE too, transferred by other computers.

LASERPACK enables to carry out in only one passage sophisticated and complex die-cutting and cutting geometries, executable also orthogonally to bobbin unwinding way, micro perforations, indentations, unreachable through present mechanical die-cutting systems; giving thus way new applicative frontiers to beverage, food, pharmaceutical, cosmetic sectors and so on.

TECHNICAL FEATURES

General

- Bobbin speed: 60 ÷ 90 m/min [*196.85'÷295.72']*
- Max bobbin height: 360 mm *[14.17"]*
- Max bobbin diameter: 500 mm *[19.69"]*
- Max bobbin weight: 115 kg *[253.53 lbs]*
- Electronic step control, repeatability: ± 0,05 mm
- Off-line workspace to test execution in static modality
- Longitudinal cutting unit equipped with no.3 cutters
- Bobbin winder with speed control
- System to longitudinal drift control
- Junction table with holding clamps

Laser Source

- Source: CO_2
- Power (Watt): 115 238
- Peak power (Watt): >230 >480
- Frequency (kHz): 0,1 – 50
- Pumping: RF discharge
- Cooling: H_2O closed loop
- Estimated average lifetime: 15.000 h

Scanning head

- Work area (mm): 350 x 350 *[13.78" x 13.78"]*
- Spot diameter: ≈ 330 µm
- Writing speed (linear): > 3m/s *[> 9.84']*
- Writing speed (raster): > 5 m/s *[> 16.40']*
- Positioning speed: > 6 m/s *[> 19.68']*
- Diode pointer: 650 nm

Optionals

- **CO2 + CO2 double laser unit** — The second unit allows the productivity's duplication
- **Double winding** — Auxiliary bobbin winder with torque control
- **Additional cutting groups** — Possibility to introduce up to 13 groups of independent cutters
- **AM-Drive-RCM software** — *AM Drive RCM software option* enables by internet connection to activate a remote assistance service. AM remote assistance operative station can this way enter directly the system installed by client, to carry out all system diagnosis activities and assistance to operator.
- **Joints detection sensor** — Detects with precision the junction between two bobbins
- **Bobbin junction sensor** — Allows to execute a double bobbin junction (on paper and on support)
- **ECO-2500 smoke exhauster** — Smoke-exhausting system
- **EOLO THC 400/2500 smoke exhauster with activated carbon filters** — Exhausting system with activated carbon filters

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