

HOLOMARK

LASER MARKING



AM



WWW.AM-LASER.COM

HOLOMARK is the marking system expressly realized to permanent variable codification of holographic material on bobbin.

The hologram is the printing product of maximum intrinsic security, since its originality guarantee is due to the essentiality of design, origination and production processes. Today's sophistication level of holographic patches demands the utilization of even more specialized and innovative technologies during different process phases, from base material to finished product, full of high-added-value surface treatments. Laser marking is the only way to realize permanent codifications of very good graphic quality, avoiding maintenance costs and consumption typical of ink jet technology.

Growing need to certificate the products' original provenance, makes holographic patches even more widespread and personalized. The introduction of variable data on each patch increases the security, since laser codification becomes a permanent anti-counterfeiting element.



HOLOMARK, thanks to interaction of laser light with a wide materials range, allows to realize every patch personalization, without limits, changing in real time logos, texts, graphics, alphanumeric codes, bar codes or data-matrix, originated by external DATABASE too, transferred by other computers.

LASER technology brings a series of indisputable benefits such as an high operative flexibility with highly reduced set-up times, besides to the possibility to operate on standard semi-processed, adaptable in real time to different customers' requests.

Furthermore, through the particular **SWS** option, it is possible to realize SHIM' direct personalization, assuring a wider operative flexibility together with a considerable costs reduction.

TECHNICAL FEATURES

General

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|---|--------------------------------|---|
| • Maximum working size: | 350 x 350 mm [13.78" x 13.78"] | • Off-line workspace to test execution in static modality |
| • Max bobbin height: | 360 mm [14.17"] | • Longitudinal cutting unit equipped with no.3 cutters |
| • Max bobbin diameter: | 500 mm [19.69"] | • Bobbin winder with speed control |
| • Max bobbin weight: | 115 kg [253.53 lbs] | • System to longitudinal drift control |
| • Electronic step control, repeatability: | ± 0,05 mm | • Junction table with holding clamps |

Laser Source

- Source: Nd:yag
- Power (Watt): 30 - 60 - 80
- Peak power (Watt): >33 >66 >88
- Frequency (kHz): 0 ÷ 100 Khz
- Pumping: Laser diode arrays
- Cooling: H₂O closed loop
- Estimated average lifetime: 10.000 h

Scanning head

- Work area (mm): 350 x 350 [13.78" x 13.78"]
- Spot diameter: ≈ 100 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

- | | |
|--|---|
| • SWS – SHIM personalization's station | Allows to effect personalization directly on SHIM |
| • 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 | <i>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.</i> |
| • Joints detection sensor | Detects with precision the junction between two bobbins |
| • Flag detection sensor | Detects the beginning of bobbin's part which is printed correctly |
| • 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 | Smoke exhausting system with activated carbon filters |

AM has the right to modify the features mentioned in own catalogues at any time and without any notice.