



MATRIX TEXTILE

The high-end solution for roll-to-roll & roll-to-garment finishing and production: high speed, high quality and high productivity.

- **Matrix Textile** represents the outcome laser solution, that is to say the summary of technological excellence and experience developed by SEI Laser in marking, engraving and cutting both natural and synthetic fabrics, TPU and rolls for interior design, fashion and technical textile application fields.
- The possibility to process non-stop with moving material ensures exceptional productivity and up to 3 times higher than traditional laser solutions.
- High speed of fabric processing and maximum quality guaranteed by the exclusive proprietary laser technology.
- Icaro Textile software (CAM): cutting and marking processes management and raster grayscale levels up to 16 bits. Special functions for optimizing cutting and decoration.
- **Matrix Textile** complies with IEC EN 60825/1, Class 1.
- Industry 4.0: it can be integrated in any modern digital production process.





MATRIX TEXTILE

Main technical features:

| Versions | Matrix Textile 16 |
|-------------------------------------|--|
| Max. processable roll width (mm) | 1650 |
| Max. marking width (mm) | 1600 |
| Rated Laser Power (W) | 300-500 - single or double laser |
| Max. laser speed (m/min) | up to 18 |
| Working way | Module SEI Bravo: step by step or on the flight |
| Marking line size (mm) | 0.8 - 2 |
| Importable files (vector or raster) | .bmp; .jpg; .tiff; .dxf; .pdf; .eps; .plt |
| Electricity consumption (kW) | 11-45 |
| Software interface | Icaro Textile on Windows™ platform |
| Laser power control | Patented mode, proprietary SEI Laser algorithms |
| Norm compliance | 2014/35/EU Low Voltage Directive |
| | 2006/42/CE Machinery Directive |
| | 2014/30/EU Electromagnetic Compatibility Directive |
| | IEC EN 60825-1 Laser Safety |



Options available for maximum flexibility of use:

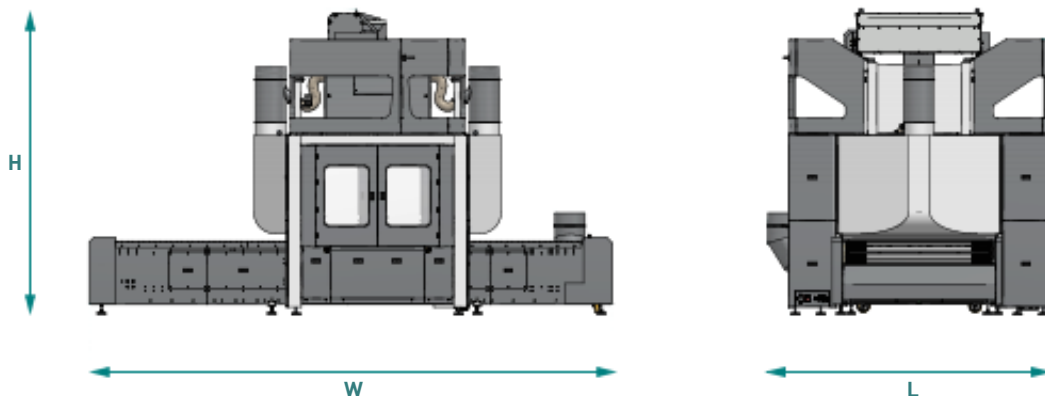
- Conveyor areas to unload and reload
- Unwinder/Winder system (optional)
- Electrowelded steel frame with protective windows around the perimeter of the marking with side access doors controlled by security interlocks
- Camera for registry cut processing
- Pick-up and stacking system for cutted pieces

Matrix Textile 16

W 6137 mm

L 3298 mm

H 3579 mm



* Matrix System is protected by an international patent pending

Marking



Engraving



Cutting

