

# AZIMUT

**Cutting, marking and decorating laser machine for roll to roll fabrics**



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**AZIMUT** is a innovative cutting and marking laser system, designed to let you work on **large volumes** any kind of fabric, natural or synthetic.

**AZIMUT** is built with a solid and stable steel structure that avoids any vibration and it is fitted out with a sealed CO<sub>2</sub> laser source and a three-axis galvanometric head. It allows large working area size and guarantees the greatest performance in terms of quality, working speed, reliability and flexibility.

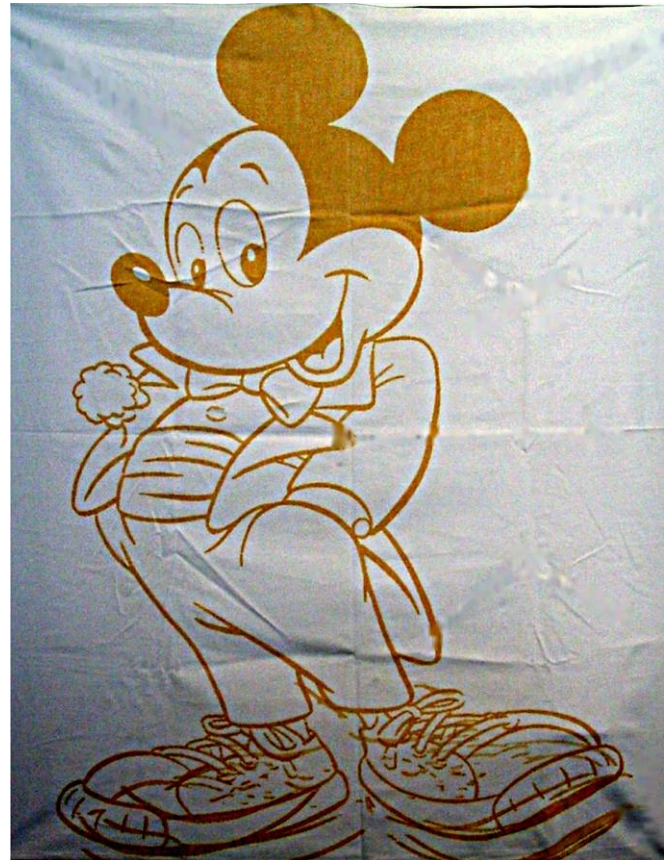
**AZIMUT** plan was conceived in order to meet the growing requirements of whether fashion and high level standard of clothing, embroidery, and fabric decoration industry. The technology of the system allows high performance volumes. and is not comparable for sophistication and reliability to any other machine.

The laser head is moved by controlled engines that allows an unsurpassed speed.

Thanks to these technical features is possible to work, with the same productive capability different working area sizes, from 900 x 900 mm to 1600 x 900 mm, giving the chance to the textile operator to select the desired length of working area.

The fabric conveyor was projected to guarantee the most reliable repeatability of the working preceding and the fabric planarity.

Whole system runs by a high performance and easy-use software, for all large feasible applications.



decorated cotton "Disnev" dim: 1.400 x 1.400 mm



decorated denim "woman face" dim: 1.400 x 1.400 mm

# Technical Features

## General

- System equipped with laser unit and three-axis galvanometric head with a dynamic third axis. Working non-stop by roll to roll.
  - Height: 1.600 mm.
- Bobbin dimension 400 mm with a weight of 70 Kg.
- Optic device to work on various layers with the same high focal precision.
- Specific control system software for the management of the laser marking/cut. It can process PLT, DXF, PCX, BMP, MCL., and more.
- Upper and lower hood arrangement for exhausted smoke.
- Laser unit working in IV class.

## Laser source

- Source: CO<sub>2</sub> sealed
- Power P.P. (Watt) 480-750
- Frequency (KHz): 0.1-50
- Pumping: RF discharge
- Cooling: H<sub>2</sub>O+closed loop
- Estimate average lifetime: 10.000 h

## Scanning head

- Single working area 900x900 mm
- Spot diameter ≈ 500μm
- Writing speed (vectorial) > 3 m/sec.
- Writing speed (raster) > 4 m/sec.
- Positioning speed > 5 m/sec.

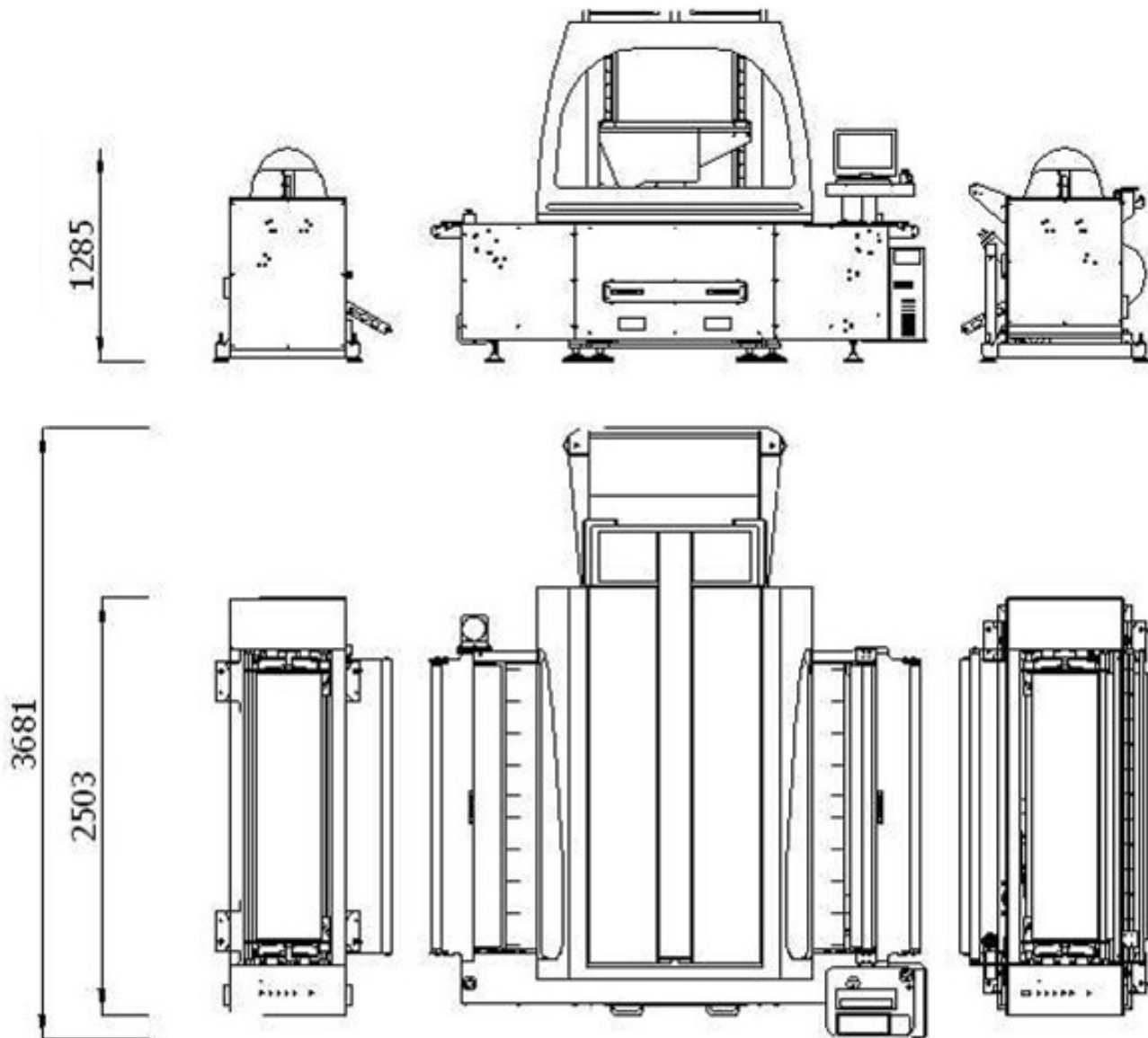
## Mechanical Structure

- Unit laser movements made by controlled axis.
- Conveyor with grating steel belt controlled by electronic device.
- Structure in stabilized welding and grounded steel of exceptional sturdiness to avoid vibrations during working phase.
- Mobile sliding unit on precision prismatic spinning ball guidance.
- Head laser movement (traversal Y axis) with controlled motor.
- Repeatability : ± 0,015 mm

## Connections and weight

- Voltage: 400 Volt trifase + neutro.
- Power (480 Watt Version): 18 KW
- Weight: 2.300 Kg

## DIMENSION



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