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*Non-contractual photo*

**Fiber optic gimping machine**

## 1 – Application

- Protection of the fiber by a Kevlar type textile
- Fiber reinforcement
- Photonics and Defense markets

## 2 – Description

The wrapping machine is intended to reinforce the optical fiber with many adjustable parameters:

- Braking voltage starting coil
- Adjustable wrapping tension
- Heating temperature

The wrapping is ensured by a bowl in which is integrated the textil reel, the unwinding system and the smootehr. Its compact and optimized design allows it to reach a rotation speed of 3000rpm.

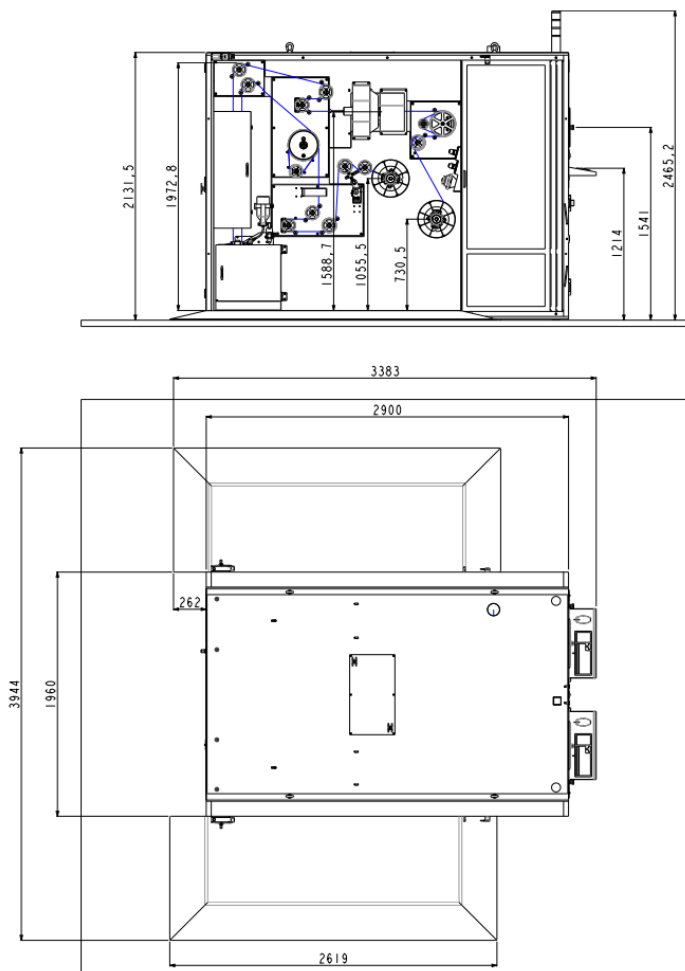
## 3 – Technical specifications

CHARACTERISTICS <i>(excluding option)</i>	VALUES
Covering speed:	0 to 30 m/min
No wrapping:	5 to 20 mm
Wire feed voltage:	50 to 150g
Braking voltage ( electromagnetic brake):	100 to 400g

Textile fiber unwinding tension:	10 to 200g
Tension on the fiber before wrapping:	150 to 550g
Receiving voltage:	100 to 500g
Heating temperature:	30 to 150°C
Horizontal slicing before rewinding the delivery reel :	0, 5 à 5 mm/tr

- 3 types of receiving and delivering coils
- Constant speed capstan drive
- Optical fiber length measurement with greater than 1% accuracy
- Measurement of the diameter of the optical fiber with a 2-axis laser head and an accuracy of less than µm
- Fiber tension measurement with an accuracy of 10g
- Coating the fiber with glue by dipping and extracting solvent vapors
- HMI with 15" screen and SIEMENS automation
- Alerte on faults (fiber diameter, tension, low glue level)

## 4 – Dimensions



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