

# Braiding of composite materials

## 2D & 2D- 1/2

- Braiding machines for composite fibers: carbon fibers, glass, aramid...
- Possibility of braids integrating **0 deg fibers** (unidirectional 2D-½).
- Fiber angle adjustment at any point along the path.
- Time zones with adjustable tension.
- Water mist spraying to improve friction between fibers.
- Parts / core carrier on 6-axis robot base, addition of an additional linear axis for long parts.
- Additional robot for braid opening or additional support.
- Slaving the pulling speed depending on the braiding speed.
- YOUTUBE LINK





## Filament Winding machine

### Composite



#### Features :

- Ranges and axis feedrate :
  - **Z**: 1500 mm, 20 m/min
  - C: Modulo 360°, 15 up to 40 tr/min
- Adjustable and controlled filament tension
- Filament sweep (parallel to Z axis) : tailor-made race
- Material : Glass fiber, carbon,...
- NC : Num Flexium, Fanuc 18i, Siemens 840D
- •Options : Cross table (X,Z), Multi filament

