Certified Quality

CERTIFICATE N. 002-TUVIT-MEP20
DATED 03 NOVEMBER 2020

MACHINE ENERGY PROTOCOL

Manufacturer: FKgroup
Type of machine: Low-ply cutting machine
Medium Consumption: from **4.5 kW** to **4.9 kW**

MEP Smart Label:

A+ gold
IDCL 95

A+
A
B
C
D
E
F

Constant research **to reduce consumption of energy and CO₂ emissions**

Average **energy consumption** starting from 4,9kW

GREEN LABEL
SUSTAINABLE MACHINERY CERTIFICATION

Average **noise level 72 dB**

Industry 4.0 READY

Industry 4.0 compliant

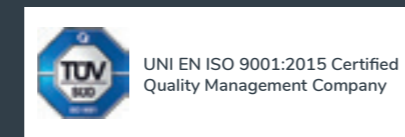Certified **Dust Filtering** system
ISO 5011

Made in Italy

FK GROUP SPA
Via Friuli, 21
24044 Dalmine (BG) - Italy
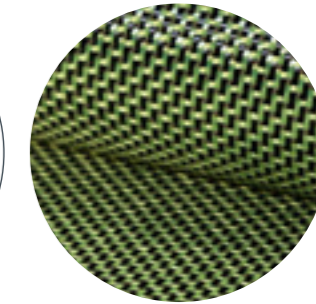Tel. +39 035 565633

Sales Dept.
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Customer Service
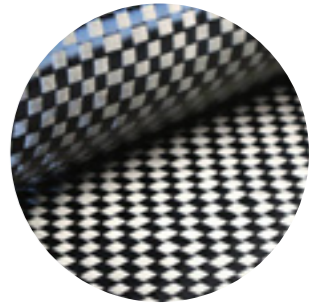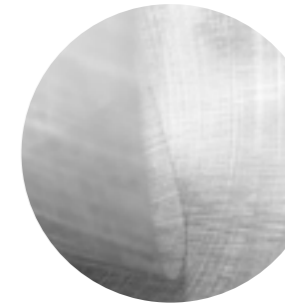customer.service@fkgroup.com
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UNI EN ISO 9001:2015 Certified
Quality Management Company

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Composite Materials

FABRICS

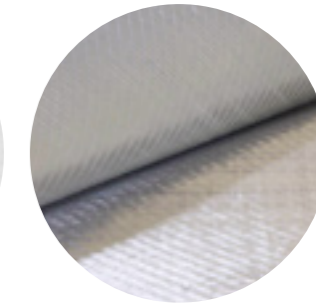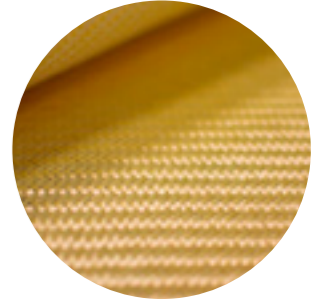Carbon Kevlar
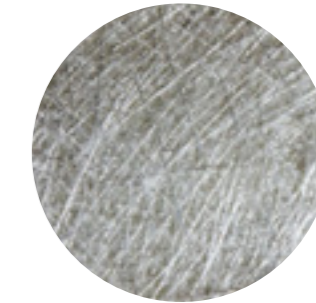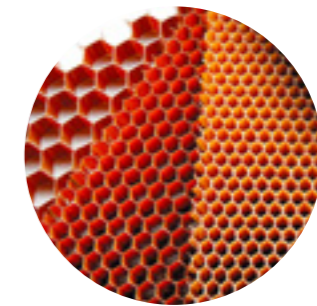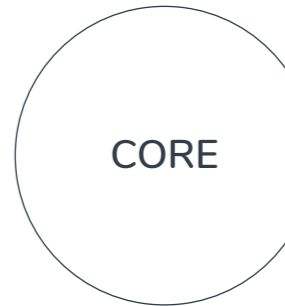

Carbon Fiber

Dyneema

Fiberglass Multi Axial

Kevlar

Mat

Carbon Prepreg

CORE

Honeycomb Core

Polyurethane

Foam Core

Cutting Solutions for
COMPOSITE MATERIALS

FKgroup®
Made in Italy

TECNO FRECCIA

Ideal solution for large productions. Tecno Freccia is the **automatic conveyor cutting system** for mattresses **up to 2.5 cm**.

Its **strengths are**:
- reliability;
- ease of use;
- low energy consumption.

The machine is equipped with the Non Stop Cutting System that allows you to **manage the cutting as it advances** (Continuous Cutting software) or **to work with consistent mattresses** (Quick Release Vacuum). The **ISO 5011** air quality and **TÜV** certifications of MEP systems on reduced consumption are included.
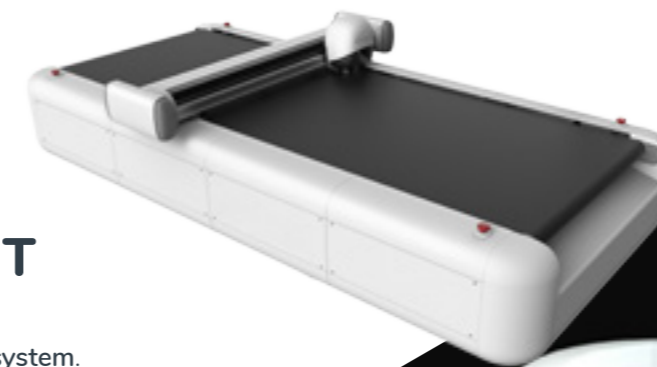
The machine is equipped with Fanuc or Siemens electronics.

UNIVERSAL

UNIVERSAL is the **automatic conveyor cutting system** offering the choice of **6-8-9cm cutting head** for all types of production. Universal is a new project capable of accelerating working cycles through both speed and productivity, applying a mix of technical characteristics and innovative materials enabling to reach cutting performances never achieved before.

Non Stop Cutting system involving two alternative methods: Continuous Cutting software to enhance cutting while advancing, Quick Release Vacuum suitable for high ply cutting (optional).
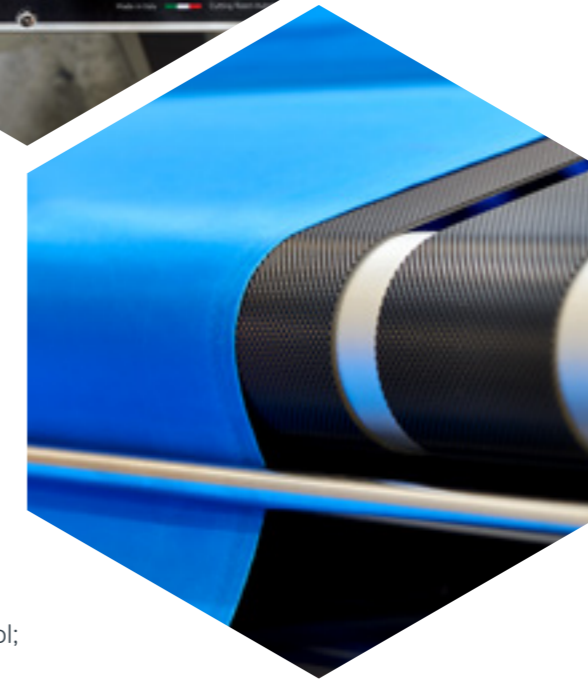
FEEDING CRADLE

Feeding cradle with a unique design, with multiple feeding possibilities such as:
1. feeding through tension detection bar, during fabric advancement to the Cutter;
2. feeding through electronic signal, from cutting conveyor movement;
3. feeding through encoder synchronizing feeding cradle and cutting machine;
4. feeding through a mix the signals above.

- Digitally adjustable speed acceleration and deceleration control;
- Automatic electronic control of fabric tension;
- Brushless main motors or variable speed motors;
- Cradle with alternate belts for rolls of Ø 50cm, up to 100cm as optional, and max weight 100kg.

TECNO BILIARDO

TECNO BILIARDO is a static automatic cutting machine with unique abilities, for mattresses **up to 2.5 cm**. With its features, it meets the needs of companies, those involved in R&D and prototyping or those with workflows that do not require a continuous feeding.

Its **strengths are**:
- reliability;
- low investment cost;
- ease of use;
- low energy consumption.

The **ISO 5011** air quality and **TÜV** certifications of MEP systems on reduced consumption are included.

The machine is equipped with Fanuc or Siemens electronics.

ULTRACUT

ULTRACUT is a **single ply cutting system**.

It is a very flexible system, which allows the cutting of various types of materials thanks to the possibility of installing different tools, blades, punches and writing systems.

ULTRACUT, thanks to its precision, allows an optimal overcut management, guaranteeing exceptional cutting results.

ARC *(Augmented Reality Camera)*

ARC is the union of various already known solutions that find their maximum functionality in the integration of **CAD + CAMERA + NESTING + CAM**.

The system is a set of optical cameras, supports and DASforCut software that allow an operator to work in augmented reality.

This ARC technologies is very helpful for place the pieces to cut with right fiber orientation, very important for the resin flow in the **INFUSION PROCESS** and for the **LOOK CARBON** sector.

ARC is a system that allows you to reduce cutting time up to 70% compared to the traditional positioning system, with the best precision and quality results.

BUNDLE 4

3D — FLAT — CUT — NEST
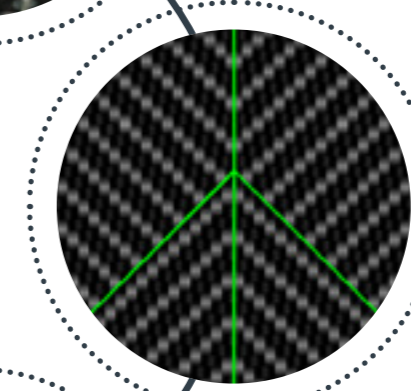
FKAD
Software **BUNDLE 4**

Bundle 4 is a **Complete Software Package** that allows to:
- Import from 3D objects;
- Create 2D figures;
- Import and export DXF made with the most popular cad systems;
- Import from scanner or other acquisition devices;
- Generate cutting files.

(*) nesting by default and possibility of autonesting