

OROX FLEXOCUT F series

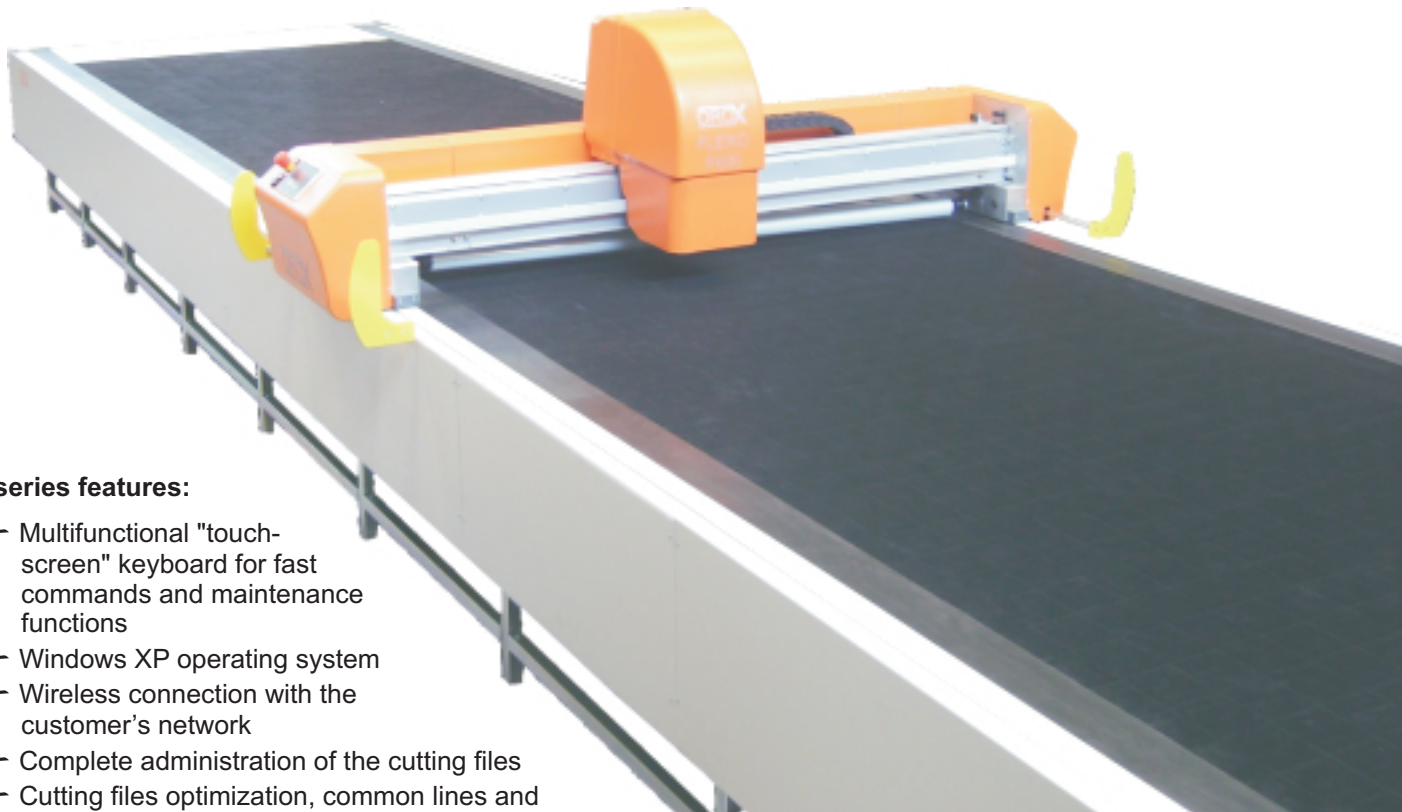
Fixed table cutting systems



Innovative engineering.

Flexocut F series fixed table cutting machine is based on a mechanical structure light and robust, equipped with a self-sustained robotic deck, containing all electronic and mechanic components. This allows an easy maintenance, removing connection errors and multiple cables.

Simplifying to the indispensable leads to a much smaller price, F series fitting an accessible price segment, down to 55-60% the price of a conventional system.



F series features:

- ✂ Multifunctional "touch-screen" keyboard for fast commands and maintenance functions
- ✂ Windows XP operating system
- ✂ Wireless connection with the customer's network
- ✂ Complete administration of the cutting files
- ✂ Cutting files optimization, common lines and cutting contours
- ✂ Open interface to receive cutting data from CAD systems in ISO, DXF and HPGL standard formats
- ✂ Notch adjustment: standard, internal or external V formats
- ✂ Cutting speed adjustment
- ✂ Work sequence preview and cutting simulation
- ✂ Permanent tracking of the operating parameters: speed and aspiration
- ✂ Blade consumption tracking with blade change warning
- ✂ Cutting start point on contour adjustment
- ✂ Settings files management for cutting parameters
- ✂ Laser positioning device
- ✂ Automatic adjustment of the marker alignment
- ✂ Integrated aspiration device for better fixing of the cutting parts
- ✂ Air exhaust with silencer and filter
- ✂ Interchangeable drillers
- ✂ Self-diagnosis for possible errors individualization

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OROX FLEXOCUT F series

Fixed table cutting systems



Innovative engineering. F series incorporates the Flexo robot, a self-sustained cutting machine, with motion control features, adjusting speed according to the angles and curves of the cutting parts. Using the most advanced electronically and mechanical technology, Flexocut F series are flexible machines adapted to multiple tasks in the textile and connected industries.

Easy to use. The commands and the software which control the Flexocut machines are based on intuitive pictograms, the functions are simplified for an easy and quick understanding of the machine, even by non expert operators

Low resource consumption. Trying to reduce the exploiting costs of the machine, a special attention was paid to the costs of energy needed to function. Inverter based electronically systems don't allow consumption peaks. The smart aspiration command system continually controls the power needed to fix the material on the cutting table

Perfect blocking. The fixed table cutting device is made of a flexible and compact surface, with rectangular brushes, planned to sustain the cutting material, and, in the same time, to allow a smooth penetration of the blade. The aspiration is distributed on the whole cutting surface, the design of these brushes maintaining the aspiration on the entire cutting area.

An EVAS (electronically vacuum sensor) special system allows aspiration optimization. An intelligent sensor will detect air loss in the cutting phase. The electronic system controls the debit, rising or diminishing the aspiration, keeping the material fixed on the cutting plan, with the right pressure for blocking.

Self-sharpening blade. A new blade sharpening system, with electronically control and a single grinder keeps the blade sharp at all time. With the help of the electronically system, the sharpening angle can be modified. This special feature allows the cutting of adhesive materials or treated with finishing and specific coloring, metallic wire inserted materials, etc. The blade's wear is automatically corrected, the blade lasts longer and the cutting is always exact and even.

Exact and even cutting. The blade's special guiding, alongside other devices, keep the blade perpendicular on the cutting surface. The cutting speed is administrated to keep the uniformity and dimensional precision between the first and last sheet of the layer, even for rough materials as Denim

Error pointing. All the system's elements are constantly monitored and the possible errors are pointed and showed, allowing the quick rebuild of the normal conditions. The pointing helps in tracking down the flaw, allowing prompt interventions of the Gemini qualified personnel through remote assistance.

Technical characteristics of the F series

-The cutting height depends of the used heads: F200 up to 1,5-2cm; F350 up to 3,5m; F600 up to 6m
(Maximum values for compressed material)

-Standard cutting windows: - useful widths in cm: 160; 180; 200; 220

- useful lengths in m: 2,20; 3,10; 4; 5; 6; 8; 10; 12; 15

-Installed power:

- for tables up to 6 m, 10 KW installed power with COVED, average consumption 6KW

- for tables from 6 to 15 m, installed power 18 KW with COVED, average consumption 10-12 KW

-Electric power: three-phase, 400V 50Hz +/-10%

-Pneumatic consumption: 150 L/min 6 BAR

-Functioning temperature: between 10°C and 30°C

-Humidity between: 30% and 80%

-Cutting speed: 60 ml/min

-Acceleration: 0,5 G

-Noise: <80 db



Options:
ML: manual lateral movement kit for the machine (for cutting windows < 6m)
BARC: bar code reader to automatically insert marker data
SPREM: automatic layer device on the cut plan
EDIT CUT: software to modify ISO formats
PC: personal computer
COVED: vacuum recovery device
CODE: forced blade cooling device
SPR: paper/cloth support role
SPC: computer support role
DVC: double vacuum
HD: hot drill