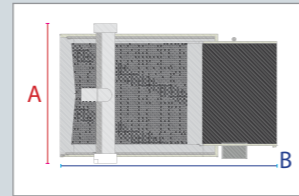


TECHNICAL FEATURES

	C350/LG	C600	C600hp	C600denim	C800
Power supply	19kw	20kw	22kw	22kw	22kw
Average consumption	6-7kw	7-8kw	7-8kw	8-9kw	8-9kw

	FLEXO 180x175	FLEXO 180x210	FLEXO 210x175	FLEXO 210x210	FLEXO 225x175	FLEXO 225x210	FLEXO 240x175
Effective cutting width	1,80 m	1,80 m	2,10 m	2,10 m	2,25 m	2,25 m	2,40 m
Effective cutting length	1,75 m	2,10 m	1,75 m	2,10 m	1,75 m	2,10 m	1,75 m
Overall width A	2,80 m	2,80 m	3,00 m	3,00 m	3,15 m	3,15 m	3,30 m
Overall length B	3,90 m	4,80 m	3,90 m	4,80 m	3,90 m	4,80 m	3,90 m



Electric requirements: Three phases + Neutral 400V 50Hz +/- 10%
Compressed air: Consumption 150l/m 6BAR
Working temperature: from +10°C to +45°C
Humidity: from 30% to 80%
Rumorosity: < 75dba
Accelerations: 0,5 g
Cutting speed (maximum): 60 m/min

MACHINES AND SERVICES TECHNOLOGICALLY ADVANCED IN ORDER TO IMPROVE YOUR PRODUCTIVE ABILITIES

SPEED: Drastic reduction of production time

QUALITY: Precision and elimination of human errors in cutting and marking

ADVANTAGES: Increase of the profits and faster return on investment

FLEXIBILITY: Direct insertion of cutting data parameters through personalized software or through CAD systems in standard DXF, ISO 6983AAMA, GT

RELIABILITY: After sales, qualified and dedicated technical service support

ROBOT FLEXO: A CONCENTRATE OF INNOVATIVE TECHNOLOGY

The completely independent cutting beam Robot Flexo, built in strong and light mechanic, incorporates the cutting head which benefits from the intelligent management of CNC control combined to the most advanced electronic systems with brushless motors of last generation. The beam moves along the longitudinal axe on the cutting bed while the cutting head moves simultaneously on the transversal axe.

The electronic and the software interact with mechanic creating a dynamic speed movement and high precision.

High frequency oscillating knife goes into the fabric to cut in rapid and precise way.

On board touch screen display makes easier the operate functions and allows the use of machine in a simplified and intuitive manner.

INTEGRATED TECHNOLOGY

The conveyor cutting machines include the Robot FLEXO, a stand alone cutting unit with intelligent management and integrated power.

The control of the movements adjusts the cutting speed in order of the angles and the curves of the figures to cut so that the knife cannot skid out of the preset trajectory even with high average cutting speed.

Using the latest electronic and mechanic technologies makes the Orox FLEXO a flexible machines, the ideal choice for different applications such as apparel industry, upholstery furniture, automotive interiors, nautical and in any case suitable for all the necessities for cutting fabrics and materials with mechanical knife.

HOLDING DOWN PERFECTLY

The conveyor cutting surface is made of a flexible and compact top composed of particular QUAD MULTIAGH® on purpose studied for supporting the material to cut and contemporarily to facilitate the penetration of the knife.

A patented vacuum section canalization distributes the level of vacuum suction on the all cutting surface, the porosity of the special bristles QUAD MULTIAGHI® allow to concentrate the vacuum in the cutting zone (vacuum concentrate).

A special system EVAS (Electronic Vacuum Sensor) allows to optimize the suction. Using a sophisticated sensor the air leakages are detected during the cutting phase.

The electronic system regulates the vacuum pump increasing or decreasing the suction allowing to maintain always stopped the fabric on the plan of cut with the correct holding down pressure.

POWER SAVE CONSUMPTION

In the optics to reduce the costs of maintenance of the machine, a particular attention has been reserved to the costs of the energy for the operation of the machine. The electronic systems controlled by inverters, don't allow to ever reach the peak of electric absorption. Besides the intelligent system for controlling the vacuum modulates continuously the speed of the vacuum turbine and therefore the power consumption required to hold down the material on the cutting table. With the supplementary automatic cover device of the cutting area, the dispersion of the vacuum is reduced subsequently reducing the electric consumption.

SELF-SHARPENING KNIFE

An innovative system of sharpening cutter knife with electronic control and with only one grindstone always maintains the sharp knife. Besides with the electronic system it is possible to modify the angle of sharpening. This particular characteristic facilitates the cut of resinous fabrics or treated with finishings and particular dyes, fabrics with inserts of metallic threads, etc. The wear of the knife is automatically corrected, the knife lasts for a longer time and the cut is always precise and clean.

PRECISE AND CLEAN CUT

The special cutter knife guide with opposite mechanical rollers and other devices keep the orthogonality of the knife with cutting surface. The cutting speed is managed to maintain a uniformity of dimensional precision between the top and bottom ply even with hard materials as Denim. If it is desired to further increase the performances (rising of the number of plies and cutting speed) the special device FLESE (Flexion Sensor) is available. Modifying electronically in automatic and in real time the position of knife reduces the bending and the impact of the same knife with the material to cut.

FACILITATED TAKE OFF CONVEYOR TABLE

The unloading conveyor made of rubber cloth, with free environment space, facilitates the picking up of the cut pieces; the garbage can be unloaded in proper containers. The unloaded conveyor works in synchronous way but it can be controlled separately in order to full unload machine while at the same time a new phase of cut can start

CUTTING TIME SAVING

The easy way of data input and the special CSM program (Control Step Motion) for a continuous step movement of the conveyor reduce the cutting time and increase the global productivity of the machines FLEXO conveyor.

ANOMALY AND FAULT DISPLAY

Each component of the system is continuously monitored and the possible anomalies are detected and displayed allowing a prompt service in order to restore the working condition. The advice of error or anomaly makes easier the fault detection allowing a prompt technical service through qualified teleservice by Orox technical experts.



FLEXO SIRIUS



**HIGH TECHNOLOGY ON CUTTING FABRICS
 ROBOT, CUTTING MACHINES AND CAD/CAM SYSTEMS**

Made in Italy

OROX S.R.L.

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FLEXO SIRIUS

Conveyor Cutting Machine

C350 Cut fabrics from single ply and compressed layer up to 3,5 cm thickness

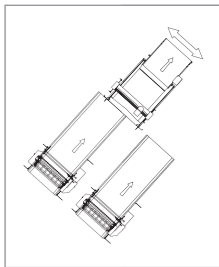
C600 Cut fabrics from single ply and compressed layer up to 6 cm thickness

C800 Cut fabrics from single ply and compressed layer up to 8 cm thickness

C600 HP (High Performance)

C600 DENIM Cutting machine designed for heavy material like Denim

C350 LG Cutting Machine designed for Lingerie



AUTOMATION OF THE CUTTING ROOM

Motorized translation to move the cutting machine between several tables of spreading; the machine cuts in continuous even during the movement.



ROBOT FLEXO THE BEATING HEART OF THE MACHINE

Oscillating knife with high-frequency, sharpening angle of the knife with electronic control and dynamic movements quick and precise with very high operational reliability.



ALLCUT® THE SOFTWARE

Developed in windows environment, it allows to manage all the data cut. Functions extremely simplified allowing the use of the machine also from non-qualified operators.



TOUCH SCREEN THE MULTIFUNCTION KEYPAD

Operator panel with immediate and intuitive commands to speed the work by reducing the idle time starter.



QUAD MULTIAGHI® FLEXIBLE AND COMPACT CUT TABLE

It keeps the pieces to be cut and facilitate penetration of the cutter knife.



OROX ECOLOGY

The attention to the environment and the continuous research brought us to develop innovative solutions for the optimization and to reduce the power consumption.



Apparel / Luggage / Marine / Industrial fabrics / Forniture / Aerospace interiors / Automotive

TECHNICAL FEATURES

- Cutting beam robot with electronic movement incorporated
- Oscillating knife with Flexo device
- Multifunctions "TOUCH SCREEN" on board machine user friendly
- Operative control with computer
- ALL CUT® : Software display of markers and shapes to be cut, cutting simulation, continuous display of production data and machine performance, data reports
- Wireless connection with the LAN of the customer
- Open interface to receive cut data in standard ISO and DXF
- Complete management of cut files
- Optimisation of cut files, cut path and common lines
- Modification of notches depth: line, internal V, external V
- Visualisation of the cut markers
- Preview of the working sequences and cutting simulation

- Cutting simulation of a single shape for error prevention
- Programming of the inner or outer selvage cut
- Choice of the cutting start point
- Union and cutting of multiple markers
- Management of the end cut marker
- Automatic adjustment of cut marker angle
- Interactive visualisation of the operative parameters
- Auto-diagnosis system to identify and advice eventual errors
- Keeping and resetting of cut data in case of power blackout
- Cutting conveyor and unloading conveyor pieces with reverse movement
- Unloading conveyor with combined and separate movement
- CLED: Automatic cleaning system of the cutting conveyor
- Priority automatic programming of cutting small pieces

- Priority automatic programming of cutting small pieces
- * CSM: Continuous Step Motion
- Vacuum pump suction system for holding pieces to be cut
- EVAS: Electronic Vacuum Sensor system to maintain a correct holding down pressure and reducing electric consumption
- Air exhaust with filter and silencer
- COVERED: Mechanic cover device of cutting area to increase hold down pressure of the pieces
- * CUT-COVERED: Covering continuously cutting for wadding and very soft materials
- QUAD MULTIAGHI®: Flexible to facilitate the penetration of the knife and concentrate the vacuum on the cutting zone
- Knife control with variable speed
- Cutting with variable speed knife to reduce and eliminate the sticking of resin pieces
- Visualisation of knife use, with warning for knife replacement

- VASH: Self-sharpening knife system with variable angle sharpening
- MEF: Mechanic and electronic control for flexion knife
- * FLESE: Flexion Sensor knife control device in real time
- * KSC: Knife Stress Control
- Drill holder device with interchangeable drill bits of different dimensions
- * PD: Punching Device, supplementary drill for die hole diam. max 16 mm
- * HD: Hot Drill with adjustable temperature
- * T.MOV: lateral motorized travel kit movement
- * COLDE: Knife cooling system with frozen air
- * LIQUID: Operative liquid silicone spray to lubricate the knife
- * BARC: Barcode reader
- * EDIT CUT®: Software to modify the ISO marker
- * POPS: post print label system
- * Optional in some models