

Keope

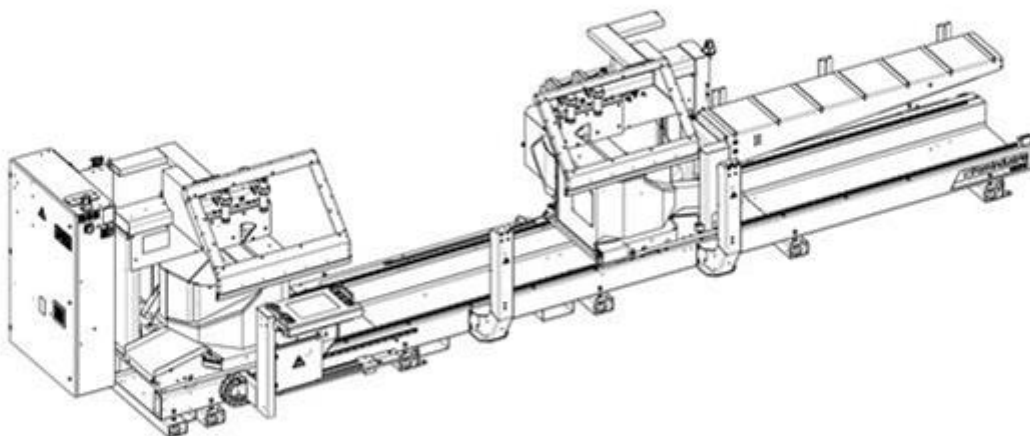
Double head ascending pyramidal sawing machine. 3 or 5 controlled axes depending on version



Double head ascending pyramidal sawing machine. Moving head translation managed by CNC. Rotation of the heads around the vertical axis managed by CNC. Motorized or pneumatic tilting of the heads around the horizontal axis, according to the version.

- Minimum quantity lubrication (MQL) with pure oil

Overall dimensions and weight



Version	Length (L) mm	Width (W) mm	Height (H) mm	Kg
5 m.	9350	2100	1700	3280
6,6 m.	10950	2100	1700	3500

Consumption and absorption

Power supply	3F - 400 V - 50 Hz
Total power installed	8,4 kW
Air consumption for work cycle	590 NL/min
Working pressure	7 bar

Technical specifications:

Blade motors	3.7 kW
Blade rotation speed	2400 RPM
External head rotation from 90° to 140° (Y and Z axes) managed by C.N. (vertical axis)	standard
Internal head rotation from 90° to 22,5° (Y and Z axes) managed by C.N. (vertical axis)	standard
Internal blade inclination at 90° and at 45° (W and U axes) via pneumatic movement (horizontal axis)	standard for E3 Version
Blade inclination from 90° to internal 45° (W and U axes) with controlled axis managed by CNC (horizontal axis)	standard for the E5 version.
Handling of mobile head (axis X) with controlled axis managed by N.C.	standard
Hydraulic tungsten carbide saw blade feed (adjustable blade exit speed – quick return)	standard
Minimum cutting capacity with heads at 90°	470 mm
Maximum cutting capacity 5mt version	5000 mm
Maximum cutting capacity version 6.6 mt	6600 mm
Software management of cutting in trimming mode for cut ends with variable angles	standard
Software management of cutting in oversize mode for special lengths	standard
Software management of cutting in minimum and super-minimum mode for special lengths	standard
No. 2 carbide tungsten saw blades	Ø 600 mm
Integral safety casing for cutting area protection	standard
Vertical vices	4
Minimum quantity lubrication (MQL) with pure oil	standard
Set up for the extraction of chips and fumes	standard
15' touch screen control panel (IP65) on linear guides	standard
Loading roller conveyor 400 (Useful length 2,2 m) (mobile head)	standard
2 Retractable pneumatic intermediate supports (max. 3 supports or 4 supports for 6.6 m version)	standard
PC operator interface	standard
Operating system Windows ®	standard
Real time numerical control	standard
FSTCUT4 software licence	standard
Teleservice for the first 12 months	standard
Potentially Industry 4.0 subsidizable asset	
Potentially Industry 5.0 subsidizable asset	



Optionals:

Special power supply with 11 KVA voltage transformer inclusive of electrical frequency switch to 60 Hz
Special power supply with 11 KVA voltage transformer frequency 50 Hz
Electrical frequency shift for operation at 60 Hz
Additional charge for electrical version UL-CSA
Additional charge for EAC (Eurasian Conformity) certification
Electric cabinet cooling system Voltage 230 V 1 ph. 50/60 Hz UL
Electric cabinet cooling system Voltage 115 V 1 ph. 50/60 Hz UL
Blade exit position transducer
Customised devices to clamp special profiles
Profile lifting kit (No. 2 total)
400 Roller table loading/unloading side 2,8 m
400 Roller table loading/unloading side 4,7 m
Swarf conveyor belt with tilted end (for 5 m version) (Unloading height 700 mm)
Swarf conveyor belt with tilted end (for 6,6 m version) (Unloading height 700 mm)
Centre machine chip conveying system
Additional horizontal clamps (max clamping capacity 290 mm) on fixed and mobile head (90° cuts) No. 2
Intermediate pneumatic retractable support, 3rd support for the 5.5 m. version
3rd or 4th support for the 6.6 m. version.
Manual stop for recovery of short extruded pieces
Equipment for machine handling with bridge crane (for non-faired versions only)
Licence for step-by-step cutting software, complete with 1 extra surface on fixed head, horizontal clamps on fixed and mobile head (no. 2), 90° cuts, two-hand control
User licence for step-by-step cutting (no optimisation necessary for fixed distance parallel cuts)
Wireless optical barcode reader and relative management software for work lists
Label printer with option to printout of the profile section and personalise the label layout
Paper roll for printer min. n. 10 pcs (100x36 mm)
Paper roll for printer min. n. 10 pcs (58x35 mm)
Teleservice contract for one user



Electronic equipment description:

- Personal computer
- Touch monitor 15" LED backlighting
- Internal USB ports plus one IP65 on front panel and internal USB ports
- RS232 serial port
- SSD solid state hard drive
- PC with Operating System Windows 10
- FSTCUT4 software
- Direct connection to FOM technical support via the remote assistance service



Description of functions and characteristic FSTCUT4 program:

FSTCUT4 is the new and advanced management program for double-head sawing machines. In fact, it manages all the operations that can be carried out on these machines. It allows a cut to be made in managed mode and can receive a cutting list directly from the office, while it uses the Industria 4.0 environment to transmit the production data back to the office itself. It reduces the use of materials to a minimum by optimising the cut.

- Semiautomatic cutting function with automatic profile height compensation and piece counter
- Direct import of the profile section from file in DXF/DWG ® format
- Classified profile archive graphic management by brand and series with working parameters associated to each profile and image display
- Management of list filing folders with paths that can also be configured online
- Cutting lists imported via network or USB memory stick
- Coating thickness and extrusion tolerance automatic corrector function
- Displaying 3D of profile
- Import of cutting lists in FOM format (protocol P2K2). Attached is a list of software that does not require the purchase of FST Converter.
- Managing of users
- Software user licence for special length cutting (extra-length and super-minimum) and bevel cuttings at variable angles.
- Display of profile sections while executing cutting lists with indications of piece positioning on the machine
- Display and print of frame image with the part being machined highlighted (only with cutting lists from the design software ProF2)
- Direct connection to FOM technical support via the remote assistance service
- 3D cutting simulation
- Automatic import of cutting list from network folder
- Integration with LOLA
- Industry 4.0 ready

On request:

Formulas and Types module, to create parametric articles and generate the resulting cutting lists

Cutting lists optimization module

SOLID PLUS CUT software licence

Licence for FST STATISTICS C4 program

Licence for FSTCUT4 program for office

Management of cutting statistics and blade wear (FST STATISTICS C4)

SW license for cutting list FSTConverter from Schüco format to P2K2 format

SW license for cutting list FSTConverter from Wictop format to P2K2 format

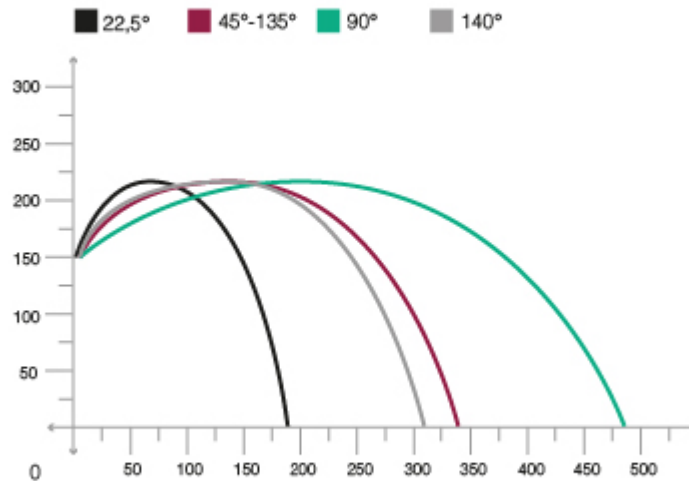
SW licence for cutting list FSTConverter from CSVFOM format to P2K2 format



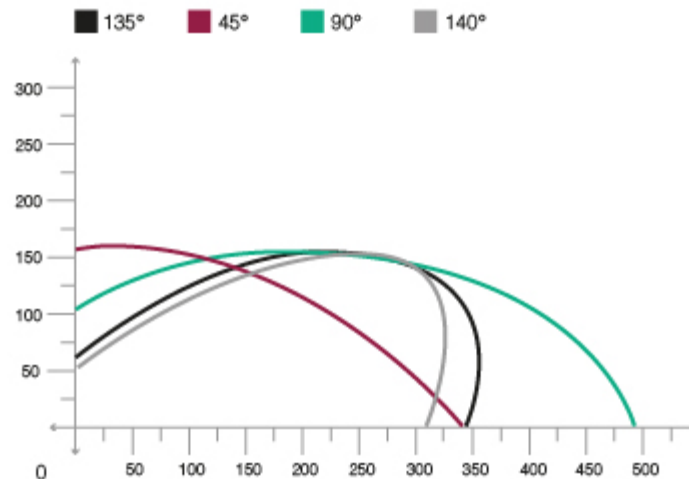
CUTTING DIAGRAM

See attachments

Blade pivoting from 22,5° to 140° (vertical axis). Blade tilting at 90° (horizontal axis)



Blade pivoting from 45° to 140° (vertical axis). Blade tilting at 45° (horizontal axis)



LOLA

LOLA is the cloud-based IoT service platform developed by Fom Industrie to monitor and optimize the productivity, efficiency, and energy consumption of machine tools, in line with the requirements of Industry 5.0.



Main features

Productivity and efficiency monitor:

Provides a clear view of machine performance, enabling the identification of areas for improvement and optimization of production processes.

Diagnostics and maintenance service:

Continuous monitoring of sensors and critical components, such as spindles and tools, to ensure timely maintenance and reduce machine downtime.

Energy consumption monitoring:

Allows, through the installation of dedicated sensors on the machine, to monitor and analyze consumption over time, promoting more sustainable operations and reducing operating costs.

Technical features:

Multi-device accessibility:

The platform is accessible via browser (Safari, Chrome) on PCs or mobile devices, with a responsive layout adapted to all screen types.

Centralized management:

Aggregated view of machines and alarms by plant or department, with user and access level management based on hierarchical criteria.

Maintenance notifications:

Real-time notifications of alarms and maintenance interventions, with a constantly updated log of performed interventions. Usage counters for key components also facilitate scheduling of replacement interventions, minimizing machine downtime.

Multilingual:

Available in Italian, English, French, Spanish, and German.

The LOLA service platform thus offers a comprehensive overview of machine status, with production statistics, diagnostics of key components, alarm management, and energy monitoring, ensuring maximum





operational and production efficiency.

