











Featuring the most versatile and controlled drying cycles.





• ENERGY SAVING

Due to the recirculation of the air flows, aimed to optimize heat recovery, and to the ventilation that is controlled and channeled in a highly efficient way, the heat exposure of the pieces to be dried is increased making the best use of the heat and air in the system.

SPACE SAVING

Thanks to the vertical movement of the trays in the dryer, the machine footprint is reduced to a minimum, even in case of very long drying times.

DRYING ENVIRONMENT WITH FILTERED AIR AND CONTROLLED VENTILATION

It is designed to guarantee the final quality of the cured work-pieces. Air temperature and air speed in various zones are set according to the parameters of drying required. The air flows are channeled appropriately to create ventilation tangent to the surface of the pieces. The air in the system is pre-filtered.

contivert etc

Vertical Dryer with belt trays



LOADING AND UNLOADING, COMPLETE BATCHES, CYCLE BY CYCLE.

The machine's operating sequence:

The conveyor belt is set in motion as soon as a belt pallet coming up from below has reached the loading and unloading level and a batch of freshly lacquered work-pieces has been identified by the photocell. After the loading of a new batch and the unloading of the dried work-pieces have been completed, the following movements are carried out simultaneously in the Convert:

- the belt tray which has just been loaded moves up by one cycle in only 2,5 seconds (1 cycle=1 rack stage)
- the next belt tray starts moving up and reaches the loading and unloading position
- the belt tray on the top starts moving in the next cabin
- the belt tray at the bottom starts moving in the previous cabin

DRYING SYSTEM WITH BELT TRAYS

The Contivert Dryer with belt trays has all the advantages of a linear dryer, while requiring only a minimum of space and energy. Belt trays arranged one on top of the other ensure controlled air flow, with both its speed and temperature adapted to the drying cycle and the finishing material used.

THE NECESSARY NUMBER OF BELT TRAYS

The model of the Contivert, the number of the belt trays and the overall height of the dryer are determined by:

- the output of the upstream lacquering unit (coating and automatic spraying machine)
- the drying cycle specified by the lacquer manufacturer

THE MAXIMUM WORK-PIECE THICKNESS IN THE CONTIVERT DEPENDS ON THE DISTANCE BETWEEN TRAYS.

The thickness of the work pieces to be dried determines the distance between the belt pallets (rack clearance) and therefore as a consequence the number of the belt pallets possible in the relevant Contivert model of a certain height. A sufficient distance between the belt pallets is essential to ensure correct air circulation over the work pieces, and therefore effective drying.



The Contivert can be equipped for any of the following work piece thicknesses:

- Max thickness 60 - 90 - 150 mm.
- Distance (rack clearance) 90 - 120 - 180 mm.

The Contivert design concept has the following models:

Contivert ETC 2/2 Consisting of 2 cabins with belt pallets

Contivert ETC 3/2 Consisting of 2 cabins with belt pallets and 1 cabin for spacing



Contivert ETC 4/4 Consisting of 4 cabins with belt pallets

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Vertical Dryer with belt pallets



THE CONTIVERT DRYING SYSTEM, WITH SEPARATE ZONES WITH INDIVIDUALLY CONTROLLED SETTINGS.

The Contivert system (patented) is based on pallets equipped with conveyor belts. These belt pallets move mechanically – vertically and horizontally in cycle – through the Contivert unit, which is divided into a flash off zone, two temperature-controlled heating zones and a cooling zone, all with variably controlled air speeds. The air flow is restricted in the upward and downward direction by the belt pallets and to the sides by baffle plates.



THE CONTIVERT FORCED VENTILATION CIRCUIT WITH PARTIAL AIR REGENERATION.

The flash off and cooling zones are located in the lower part of the unit. The air flow is blown into the cooling zone. During the cooling process, the air is heated by the work pieces and the belt pallets and then it is blown into the flash off zone, at the end of which another fan guides it out of the unit. The heating zones in the upper part of the unit work according to the recirculating air principle. Air is guided through the two heating zones at different temperatures.









Ventilation unit on the machine Opened ventilation unit. provides easy access to filter fans and batteries.

Machine complete with recycling pipes and outside ventilation units to ease maintenance.



contivert etc

Belt Tray Vertical Dryer

Contivert is a high quality drying solution that ensures the most careful treatment of the coated surface; also in case of delicate finishes, including glossy ones. The pieces to be dried are on the fully supported belt pallets, so as to have a uniform temperature over the entire lower surface of the work piece. The air flow over the work-pieces is well controlled, since the air is easily managed between the two closed and linear surfaces of the stacked pallets. All movement devices are located outside the drying area of the belt pallets.



The ideal solution for high-capacity production lines: It requires minimal time between loads, without any necessity of a load acceleration zone in the entrance area (the zone quite frequently required in dryers with bar pallets). **The whole line is highly productive and space saving.**

Trays positioned one on top of the other with side closing flaps.

Lifting chain enclosed in its protection channel. Lifting dog is also shown.





Belt tray with guides on the belt and on the whole length of the plate below.



Drive gear for the belt feed.

- The vertical dryer with fixed bar trays for the support of the work pieces is an economically viable version, that also satisfies the needs of long drying times in reduced space
- It keeps the same division into ventilation zones as in belt dryers
- The cyclic work of this dryer requires a waiting time between loads which is longer than that of a belt dryer, the time is however normally reduced thanks to an acceleration transport in the entrance area to the vertical.



The tray is made of fixed cross bars and longitudinal cross beams.

The work piece movement in and out of the dryer is achieved on the loading level by driven rollers, which are inserted between the bars so to achieve the work-piece feed.



Bar tray can be equipped with cover



Outside view of the CONTIVERT EVC



Bar tray cross transferring



Roller lifting in between the bars

YOUR ART OF FINISHING

Finishing lines signed off by Superfici add the most value to your product

Each Superfici finishing line is made with the most advanced technology and maximum versatility. Each solution is created from innovation and experience to add value to every detail and on any material. Many top brands in the world, which make quality their strong point, have chosen to rely on Superfici.



THE STRONGEST WOOD ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

65 years history

3 main production sites in Italy

300.000 square metres of production space

17.000 machines manufactured per year

90% export

20 foreign branches

350 agents and dealers

500 support technicians

500 registered patents

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TECHNOLOGIES

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