Polyurethane Evolution

FLEXIBLE FACE PANEL
PRODUCTION
MAIN APPLICATIONS

Flat roofs; Pitched roofs; Wall insulation; Floor insulation; Ceiling insulation; Agricultural; Air-ducts
TYPICAL FACINGS

Paper, film, glass fibres, non-wovens, wovens, aluminium and carton board. Reliable barriers against grease, water, moisture and gas diffusion.
TYPICAL PANELS

- Panels with straight edges
- Panels with side overlap
- Panels with tongue-and-groove (round)
- Panels with tongue-and-groove (square)
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TYPICAL PANELS DIMENSIONS

Width

Length

Thickness
## TYPICAL PACKS DIMENSIONS

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OMS Group: our facilities

OMS Factory: total 11,000 m² of covered area divided in three main buildings; 125 employees in Italy, and worldwide presence.
The ISO 9001 Certificate, issued by TUV, European Network for Quality System, crowns all our efforts to achieve a high production standard.
OMS Group: Composite Panel Division

“TURN-KEY TAILOR MADE PRODUCTION LINES”
OMS Group: Panels Production

Typical Factory Layout
OMS Group: Panels Production

QUICK OVERVIEW
OMS Group: Panels Production
OMS Group: Panels Production

DOUBLE UNWINDERS FOR FLEXIBLE FACINGS
OMS Group: Panels Production

DOUBLE UNWINDERS
OMS Group: Panels Production

FLEXIBLE FACE
UPPER
UNWINDERS
OMS Group: Panels Production
TEMPERATURE CONTROLLED LAY-DOWN TABLE
OMS Group: Panels Production

SIDE SEALING PAPER STRIPS
OMS Group: Panels Production

ELECTRIC DISTRIBUTION TRAVERSE for “SINGLE MIXING HEAD PRODUCTION”
OMS Group: Panels Production

SINGLE MIX-HEAD
ON ELECTRIC DISTRIBUTION TRAVERSE
OMS Group: Panels Production

DOUBLE ELECTRIC DISTRIBUTION TRAVERSE
OMS Group: Panels Production

3+3 MULTI-HEADS DISTRIBUTION SYSTEM : NEVER STOP PRODUCTION !!!
OMS Group: Panels Production

MULTI-HEADS DISTRIBUTION SYSTEM FOR HIGH-SPEED LAMINATION
OMS Group: Panels Production

“NIP-ROLLER” DISTRIBUTION SYSTEM
OMS Group: Panels Production

“CALIBRATION-PLATE” DISTRIBUTION DEVICE
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OMS Group: Panels Production

CHEMICAL BULK

STORAGE TANK

FARMS
OMS Group: Panels Production

MULTI-COMPONENTS
HIGH PRESSURE
METERING MACHINE
OMS Group: Panels Production

Pentane High Pressure Metering Line
OMS Group: Panels Production

“ECOFILLER”
SOLID FLAME
RETARDANT
METERING LINE
Static Mixing System

Static mixer

Pouring Valve

Additives

Inlet
OMS Group: Panels Production

Dynamic Mixing System
OMS Group: Panels Production

Nitrogen Metering Unit

Nitrogen Transfer Unit
SELF CLEANING MIXING HEAD

ISO line

Hydraulic oil

POL line

ISO pressure regulation

POL pressure regulation
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Double Belt Conveyor

Production speed: from 5 to 70 m/min
Panel dimensions: thickness from 10 to 250 mm;
variable panel width: 500- 1000 - 1250 mm
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DOUBLE BELT CONVEYOR
70 m/min
WORKING SPEED
OMS Group: Panels Production
OMS Group: Panels Production

DOUBLE BELT CONVEYOR METAL-SLATS FLATNESS ACCURACY,

+/- 0,1 mm

( +/- 0,0039” )
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DOUBLE BELT CONVEYOR SIDE CONTAINMENTS
OMS Group: Panels Production

DOUBLE BELT
CONVEYOR
MOTORIZATION
GROUP
OMS Group: Panels Production

AUTOMATIC UP-DOWN MOVEMENT OF THE UPPER CONVEYOR
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DOUBLE BELT CONVEYOR FOR TAPERED PANELS PRODUCTION
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MESURING THE FOAM-PRESSURE INSIDE THE DOUBLE BELT CONVEYOR
OMS Group: Panels Production

DOUBLE BELT CONVEYOR
HEATING SYSTEM & TUNNEL ENCLOSURE
Double belt conveyor

Exhaust

Foaming area - laydown

Pentane metering unit

Exhaust and heating

Pentane sensor

Electric panel
OMS Group: Panels Production

PANEL EXIT FROM THE DOUBLE BELT CONVEYOR
OMS Group: Panels Production

CROSS CUTTING MACHINE
Cross Cutting Machine

Main cutting unit for flexible face panels composed of:

- Side edge trimming units
- Circular disk cutting machine

It is possible to pre-set both the desired length and number of panels to be produced.
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SIDE EDGES
TRIMMING UNITS
OMS Group: Panels Production

LONGITUDINAL PROFILING/TRIMMING MACHINE
OMS Group: Panels Production

LONGITUDINAL PROFILING/TRIMMING MACHINE
OMS Group: Panels Production

SIDE EDGES PANEL
TRIMMING UNITS
OMS Group: Panels Production

“IN-FLY“ CROSS CUTTING MACHINE WITH PRE-SCORING DISK
OMS Group: Panels Production

“IN-FLY“ CROSS CUTTING MACHINE
OMS Group: Panels Production

“IN-FLY“ DOUBLE DISK CROSS CUTTING MACHINE
SOUND PROOF ENCLOSURE FOR THE CUTTING MACHINE
OMS Group: Panels Production

DUST EXTRACTION SYSTEM FOR THE CUTTING MACHINE
OMS Automation: Handling-Cutting-Stacking-Packing Technology

HORIZONTAL COOLING CONVEYOR
OMS Automation: Handling-Cutting-Stacking-Packing Technology

VERTICAL
COOLING
CONVEYOR
OMS Automation: Handling-Cutting-Stacking-Packing Technology
OMS Automation: Handling-Cutting-Stacking-Packing Technology

* Acceleration Conveyors
* Multi-Disk panel cutting machines
* Linking & Turning Units
* Panel Stacking Equipments
* Panel Packing Machine
OMS Automation: Handling-Cutting-Stacking-Packing Technology

TRANSVERSAL SQAURING MACHINE
OMS Automation: Handling-Cutting-Stacking-Packing Technology

MULTI-DISK PANEL CUTTING UNIT
OMS Automation: Handling-Cutting-Stacking-Packing Technology
OMS Automation: Handling-Cutting-Stacking-Packing Technology

PANEL PACKING LINE
OMS Automation: Handling-Cutting-Stacking-Packing Technology
OMS Automation: Handling-Cutting-Stacking-Packing Technology

Electric Control Panel

The control panel is based on an industrial Siemens – S 7 PLC for handling all the plant production cycles.
Continuous Line

IMPANTIT CMS Spa
VIA SABOTONITA 4
20050 VERSANO BRIANZA (MI) ITALY

OEROM Elettronica S.r.l.
VIA G. PASCOLI 18
20050 VERSANO BRIANZA (MI) ITALY

Oggi 31/12/2000 23.59.95
Programma 00000000
OMS Group: our customers

- BAUER
- MBP
- puren®
- UNILIN SYSTEMS
- stiferite
- DUOWEI
- EURATHANE
- Firestone
- ATLAS
- GAF
- Kingspan
- RECTICEL
- Xtratherm
- EFISOL
- Plannja
- EUROPA
- EDILTEC
- RIGI Foam
- HEMSEC
- POLISTAMP
- ISOBARU
- Poliuretanos
- TR
- KNAUF
- Steadmans
- Metallemporiki
- Quinn Group