EN

DRYING SYSTEMS

by Makor

makor GROUP

PANEL

Drying

WOOD DIVISION

ULTRADRY

New UV Oven

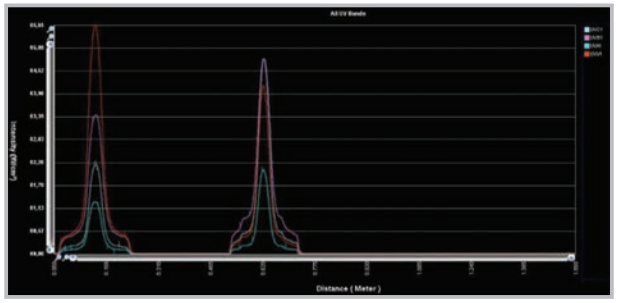
ULTRADRY drying system for the instantaneous polymerization of the UV paints on flat and shaped panels, edges included. Its modularity allows different configurations for any kind of paints and production speed.

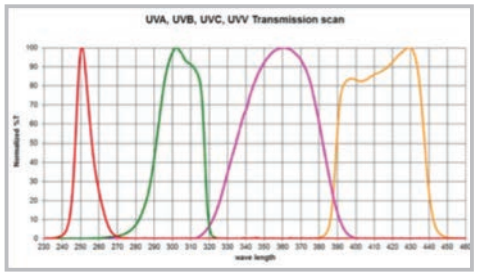
PLUS

- Modular system, from one to three lamps, bottom lamp version is available
- Ergonomic, touch screen control panel
- New shape of the shields for higher efficiency
- Lamps powered by electronic feeders, high energy saving, stand-by at 15%
- Belt transport system
- Ultradry version to dry flat parts and edges (perfect for spraying lines)
- ULTRADRY FLAT version only for flat surface (ideal for roller and curtain coaters lines)
- Lamps with dichroic glass to get lower temperature on the piece (OPT)

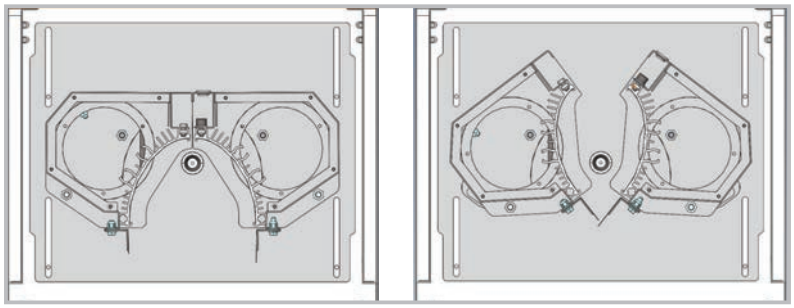
Link to on-line version

HIGH EFFICIENCY AND HIGH PEAK ENERGY

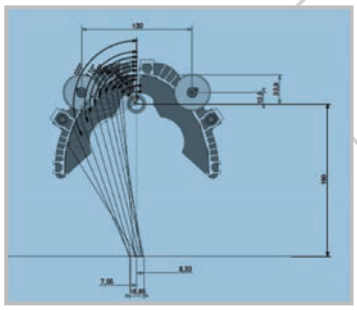




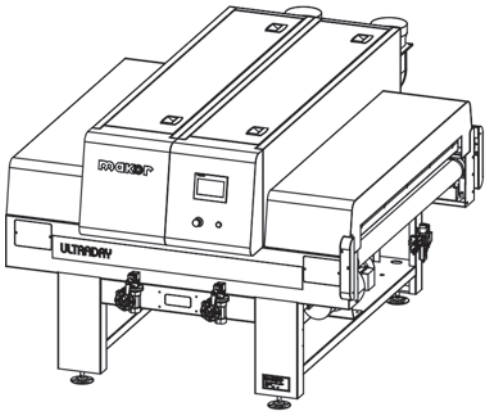
Broad Band
UVA (320-390 nm) / UVB (280-320 nm)
UVC (250-260 nm) / UVV (395-445 nm)

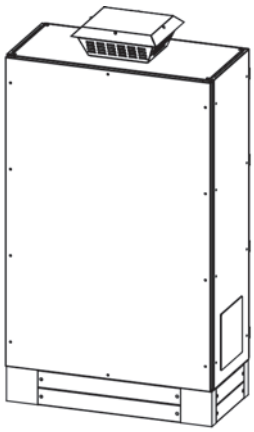


Lamp unit with shutter for stand-by management.
High cooling efficiency

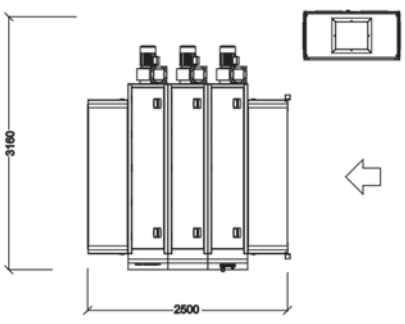


High performance,
parabolic geometry with
optimized focused beams

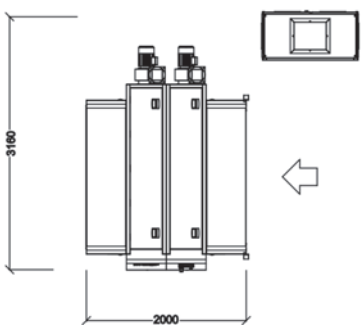




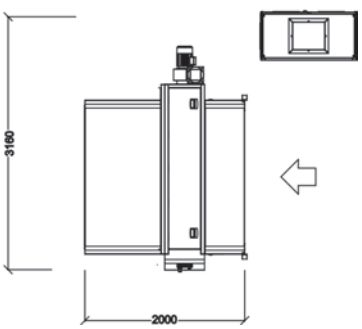
ULTRA DRY UV 3



ULTRA DRY UV 2



ULTRA DRY UV 1



3-10 MIN

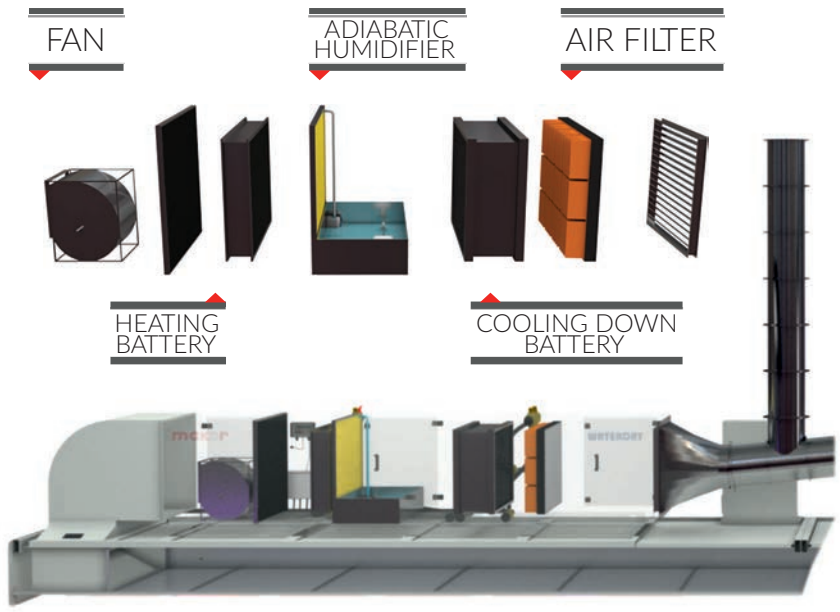
FAST DRY

Linear Tunnel

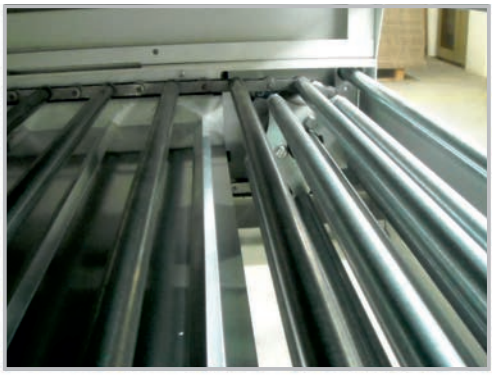
Modular design, it houses different thermal elements used in the drying and drying processes.
Machine of great flexibility ideal for drying or drying painted products.
The transport takes place thanks to a series of idle powdered-painted rollers pulled by a pair of parallel chains, or by means of a continuous conveyor belt

CTA - AIR TREATING UNIT FOR DRY AND WATER FILTERING (optional)

Air treatment unit, Air F7 filtration, heating with hot water coil, adiabatic humidification, cooling. To guarantee optimal spraying, air cleaning, temperature and humidity conditions.

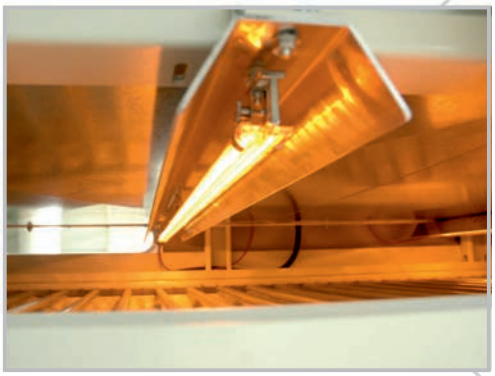


Belt transport



Roller transport

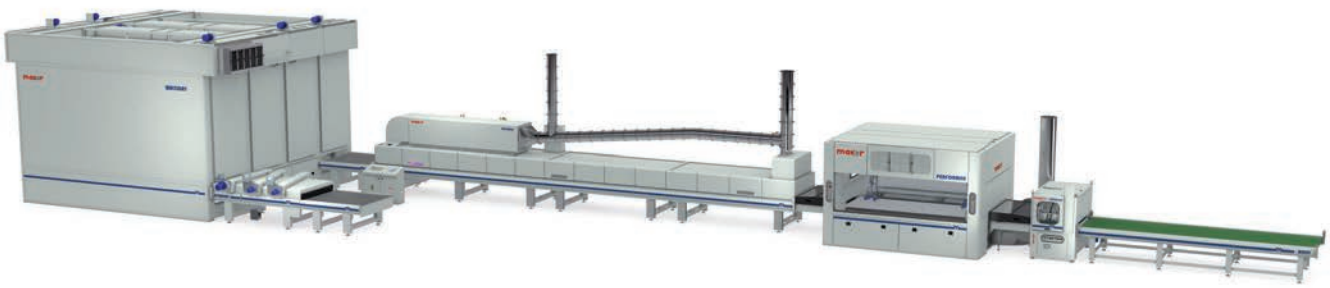
Wind-Jet hood



IR/NIR lamps hood

TL lamps hood

FAST DRY - Possible versions									
Length mt	4	6	8	10	12	14	16	18	20
Laminar hood	x	x	x	x	x	x	x	x	x
Wind-Jet hood	x	x	x	x	x	x	x	x	x
IR/NIR lamps	x	x	x	x	x	x	x	x	x
Roller transport	x	x	x	x	x	x	x	x	x
Belt transport	x	x	x	x	x	x	x	x	x
CTA	x	x	x	x	x	x	x	x	x
Chiller	x	x	x	x	x	x	x	x	x



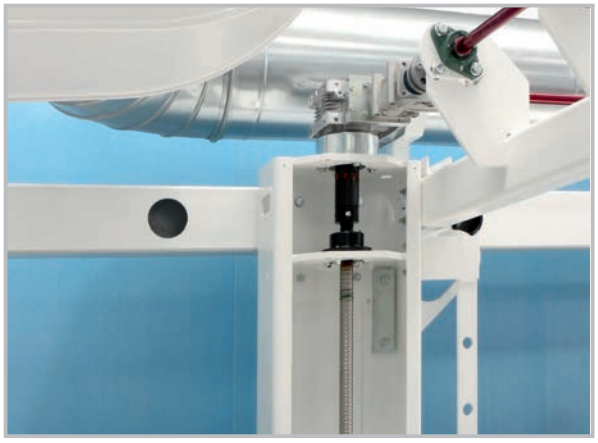
5-20 MIN

MULTILEVEL

Compact Drying Oven

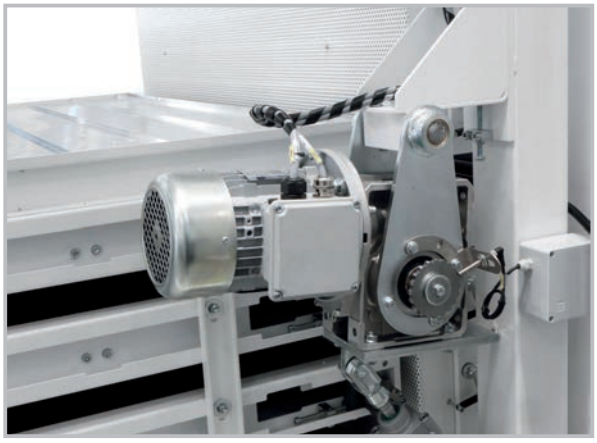
Drying oven perfect for small or fully automatic lines. The modern technological systems added to the ventilation device allow drying in short times fast reticulation paints or flashing off paints at UV hardness or curing glues to subsequently veneer panels. Compact structure, with 6 overlapped belted-trays, housed in a highly insulated chamber, the machine can work in very reduced spaces. Euro 4 Filtering system.
No contact with external agents. Adjustable temperature. Air heated through a hot water battery.

Multilevel possible versions					
	Belt length	Number of stages	Maximum thickness 6 belts	Maximum thickness 5 belts	Maximum overall dimensions mm.
Multilevel 3600	3600	6-5	60 mm	90mm	5310x3075x3175 H.
Multilevel 5500	5500	6-5	60mm	90mm	7210x3075x3175 H.
Multilevel 7000	7000	6-5	60mm	90mm	8710x3075x3175 H.
	On the upper belt without covering Max 100mm Special Version				



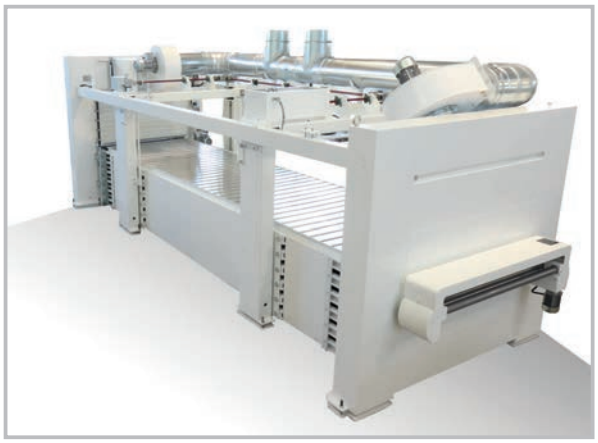
LEVEL MOTORIZATION

It is realized with precision mechanic, synchronized motors and ball recirculation screws. Maximum precision, reliable over time



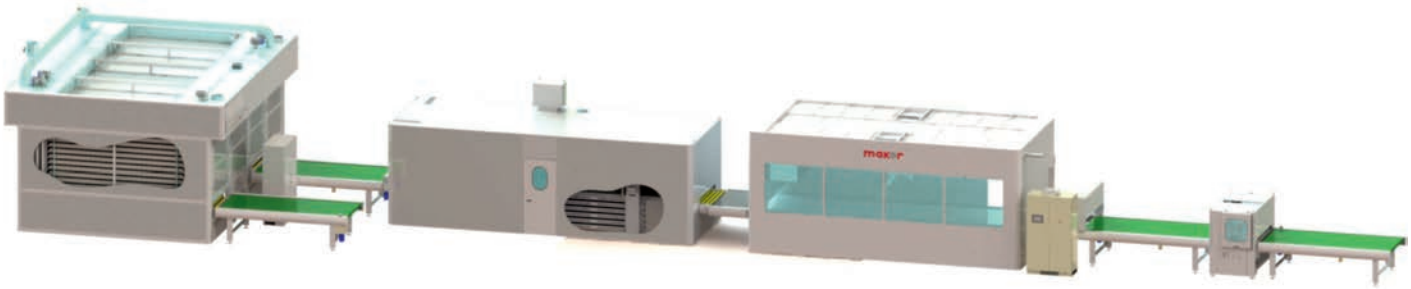
MOTORIZATION AND AIR

Belt motorization and air distribution plenum detail



High quality construction. Functional design.

Laminar ventilation hood with activation shutter



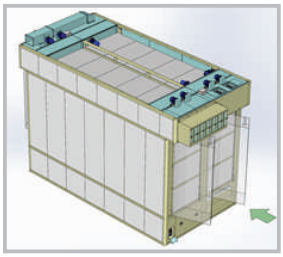
30-360 MIN

MULTIDRY

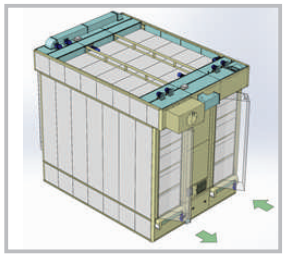
Drying Oven

Hot air drying oven, 2-3-4-6 stages version.
Woth medium-long dwelling drying time.
Oven version with trays and belts

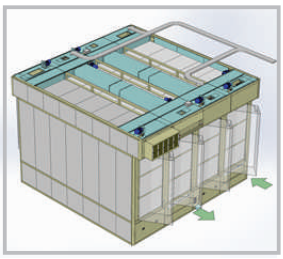
2 STAGES



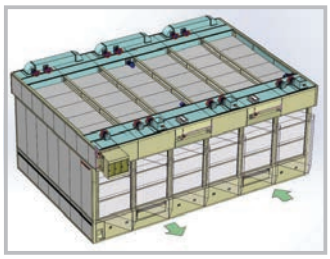
3 STAGES



4 STAGES

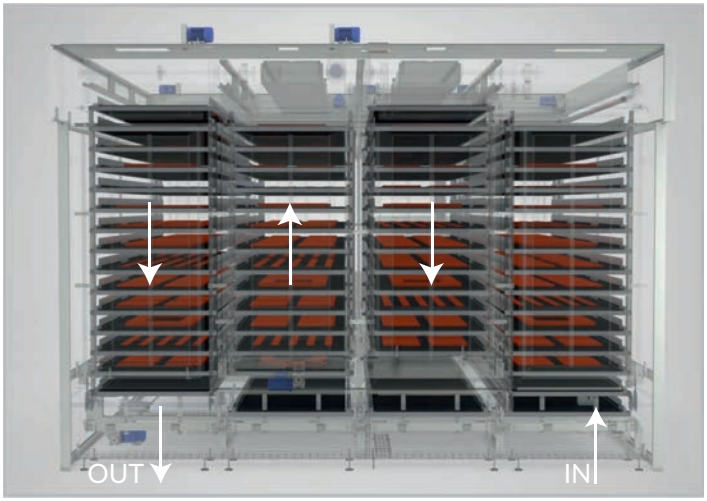


6 STAGES

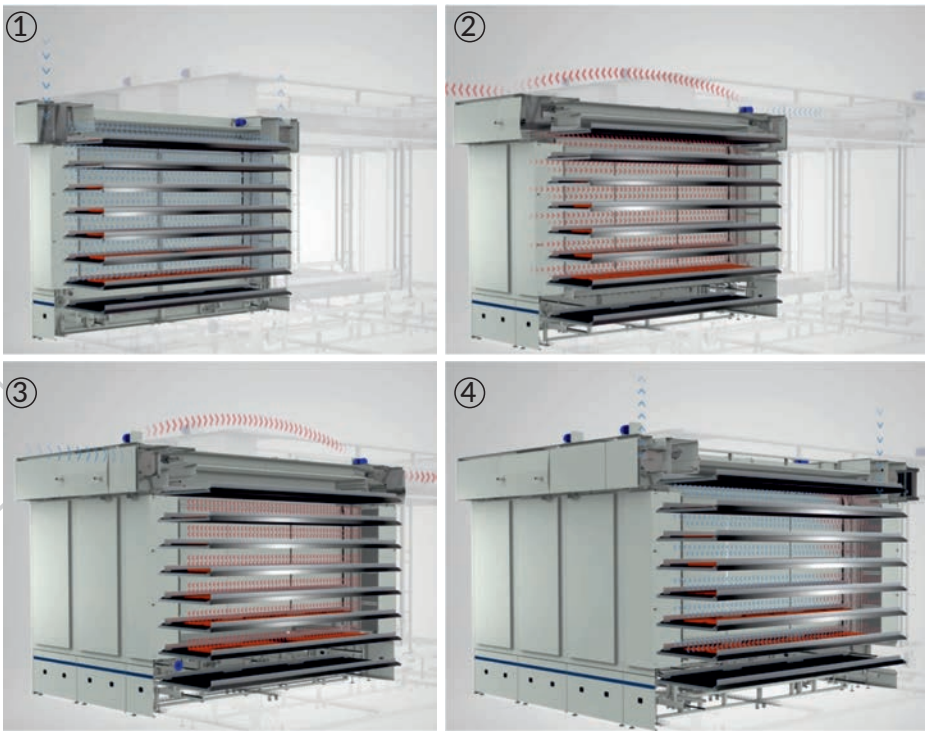


MULTIDRY - Possible versions			
	2 stages	3 stages	4 stages
trays number for piece thickness max 40-70 mm	30-48	31-49	54-90
trays number for piece thickness max 60-90 mm	20-40	21-41	34-74
belts number for piece thickness max 50-60	20-40	21-41	34-74
trays version	x	x	x
belts version	x	x	x
trays length 3600	x	x	x
trays length 5500	x	x	x
belts length 5500	x	x	x
belts length 7000	x	x	x
Versions for special thicknesses up to 300 mm	x	x	x

Operating scheme of 4 stages oven.



Air flows of 4-stages oven



Suction hood
Air accessible through
side door

Intake hood
Air accessible through
side door

3-180 MIN

FLEXI OVEN

New flexible oven

Flexible system of the drying level, it can be set level-by-level, flexibility in the management just like a real storage.
For flexible drying both of different drying time and for pieces of different height.
For flexible oven of small capability (just in-time) or combined oven-storage of big capability
(high production and just in-time)

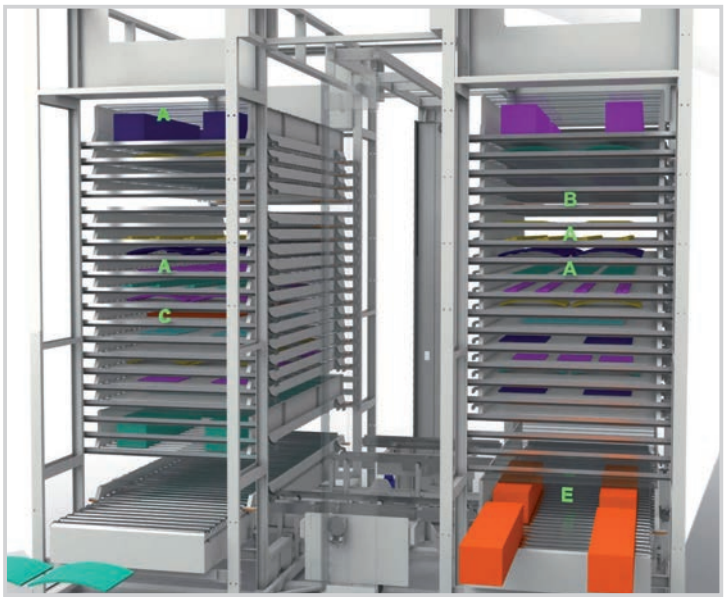
HIGH PRODUCTIONS

PLUS

- Independent on-off air flow (flash off or drying) for each tray
- Water base and solvent paint drying
- Indipendent drying time for every bar-tray
- Patent pending
- Flexible Solution
- Energy Recovery
- Covered bar-tray for high quality, Glossy
- Storage or productive buffer
- Also settable for small quantities

watch the video

SMART SOLUTION



MODELS AND FUNCTIONING MODE

- The tray moves with the pieces inside
- Total cover of the tray for quality finishing, glossy included
- Possibility to select the dwelling time (even different for every tray)
- Cycle time equal to 40 sec, that in the version with 5.5m tray allows feeding in continuous up to 8 m/min

OFF-LOAD MODE

- FIFO (like in the standard oven)
- At set time (every bar-tray is evacuated after the time set)
- Per order (independently for the entrance order, the trays of one order are off-loaded)
- These modes can be realized with any sequence

MODULARITY

- Possibility to remove/add by hand trays to manage the space dedicated to different thickness
- Height from 4.2m (20 trays) to 6.5m (50 trays)
- Up to 3 unities in line
- Tray length 3.6m or 5.5m

AIR FLOWS AND THERMO CONDITIONS

- Air intake from ambient or from one CTA (air treating unit)
- Air warmed by inner coils and available on every tray
- Management from recipe to have, on every tray, laminar air or still air (optional)
- Manual recirculation of emission air or by humidity control system (optional)

Plant for glossy lacquered doors - 2 stages flash-off oven - 6 stages drying oven

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Link to the website

makor GROUP

50 YEARS OF INNOVATION makor 1968 - 2018

We are the **finishing specialist**, leader for **50 years**.
Since 1968 we create and sell technology.

makor

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