

WORLD-LEADING
TILE TECHNOLOGY



LONGINOTTI
TILE TECHNOLOGY

THE WORLD OF **LONGINOTTI**

Proud members of the Cassani Longinotti Group since 2020



CASSANI Longinotti Group Highlights:

**120 YEARS
AND 4 GENERATIONS**
of family ownership

4,500 MACHINES
sold across 60 countries

Hundreds of **FULL
TURNKEY PRODUCTION**
plant projects

Dry cast and wet cast machinery

UNDISPUTED LEADER
of terrazzo technology today
Patents registered in all continents

15% of workforce
in technical department

100% owned,
managed and
MADE IN ITALY

This catalog is designed to follow the logic of a slab or block production plant (see illustration in Section 3): starting from materials batching and ending in palletizing and water treatment, **LONGINOTTI can offer the full range of machines required for your production.**

Index:

1. LONGINOTTI AND THE CASSANI GROUP	4	4. HERMETIC PRESSES	24
2. CONCRETE APPLICATIONS: AN ARCHITECTURAL AND DESIGN RENAISSANCE	12	5. HANDLING, CURING AND WASHING	32
3. TURN-KEY PLANTS AND LINES FOR CONCRETE PRODUCTS	22	6. CALIBRATING, GRINDING FOR SLABS AND BLOCKS	36
		7. POLISHING FOR SLABS AND BLOCKS	42

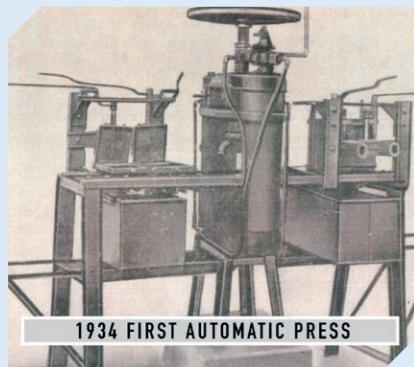
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LONGINOTTI AND THE CASSANI GROUP

90 YEARS OF INNOVATION

"An idea, a request, or a market need lead to first sketches and development between the technical office and workshop floor. The greatest satisfaction is seeing an automatic plant humming along with little human interaction."

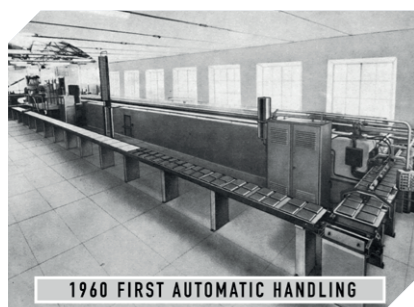
UMBERTO CIPRIANI, LONGINOTTI TECHNICAL DEVELOPMENT EXPERT



1934 FIRST AUTOMATIC PRESS

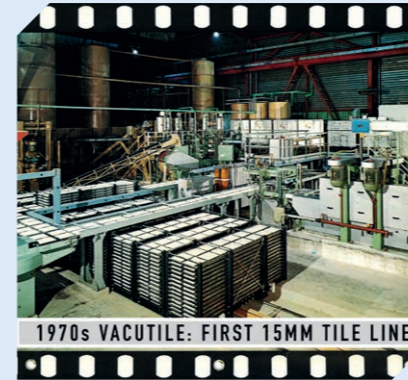
In 1934 in Florence, Italy, Enrico Longinotti founded a company whose ambition was to grow through consistent innovation. As both CEO and director of the technical department, he encoded R&D into the company's DNA, ensuring there was a new design to work on every day.

His engineering spirit centered on construction applications, including wet cast and marble resins, and today the **dry-cast sector is the central pillar of the company**. However, his curiosity took the company into areas as diverse as modular housing solutions, boring mills, agricultural applications and more recently, a recycling machinery division.



1960 FIRST AUTOMATIC HANDLING

By 1960, Longinotti had renowned multi-station rotating presses and sanders. That's when Longinotti really started to pull ahead from other players, developing a machine that revolutionised the sector: the first cyclical, automatic movement machine to take fresh output from the press, handle the curing and return cured slabs for finishing. The first installation in Pontassieve attracted customers from all over the world, greatly expanding Longinotti's their global reach.



1970s VACUTILE: FIRST 15MM TILE LINE

By 1970 Longinotti patented the first processes for pressing lower-thickness tiles, **the technology which today has made Longinotti the world leader in single-layer slab manufacturing equipment**. The ability to press tiles with multiple patterns and colours was also introduced. Over the next 4 decades, this became a 360-degree focus on Longinotti's key technology: the MS™ single-layer tile press. Starting from the existing press range, 12 iterative series followed, from a new semi-automatic 200 Ton pressing-force press through to the 1200+ Ton machines we manufacture today. Technical innovations were added at each stage: hydraulic functioning of the press, movements, robustness and efficiency.

From 1970, the company also developed new, automated versions of all its equipment, designed specifically for the thinner slab: **batching systems, slab collection and movement, curing systems and specialised sanders and polishers**.

2020: ACQUISITION OF LONGINOTTI GROUP BY CASSANI

Recognizing the important transition in the agglomerated concrete slab market, in 2020 CASSANI acquires Longinotti Group, undisputed king of single-layer slab machinery with its multiple technological process patents.

The acquisition of the world's favourite hermetic presses create the Cassani Longinotti Group, the largest Italian company in the sector.

We are constantly building for the future, so that our methods and machines may travel through to future generations.

**YOU CAN TRUST US WITH CONFIDENCE
FOR THE VERY BEST IN CONCRETE MANUFACTURING EQUIPMENT.**

CUSTOM SOLUTIONS SO YOUR PRODUCTS ARE UNIQUE

"Quality, strength, power, reliability, production, durability. Important characteristics to aim for, but our greatest strength is delivering what our clients ask for."

Whether you work with concrete, stone, marble or engineering stone, our aim is to give you what you need. For this reason, we have developed many variations of our most popular machines, offering different productivity and automations.

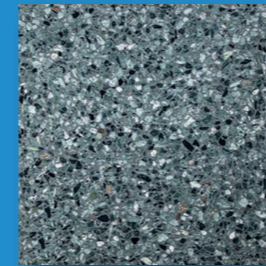
From manual to full automation, in analog or digital modes, with water cooling or in dry-mode: our machine families have a range of sizes and working stations and heads, all customisable.

Each machine is designed with optionals to adapt to your resources and way of working, and to make your products unique. And where we don't have a solution, we'll invent it.

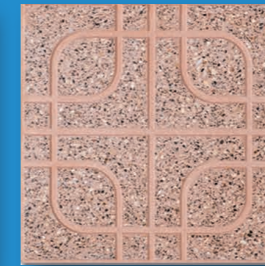
Not sure exactly what you need?

That's completely fine: tell us what you want to produce, at what speed, the level of automation required, and the space available, and we will do the rest.

You can pursue your plant design and manufacturing aspirations with confidence, knowing that we are here to support you every step of the way.



Polishes, grains and moulds



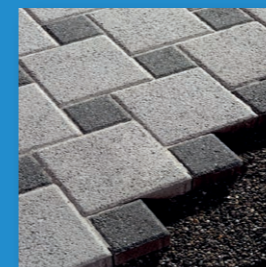
Technical properties of surfaces



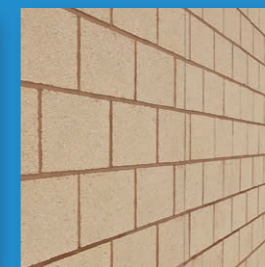
Different sizes and larger format



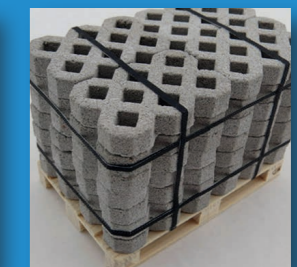
Different widths and edge effects



Blocks and pavers finishing



Packaging and Palletising



Our machines deliver the full range of finishes for both slabs and blocks: raw concrete, traditional terrazzo, molded surface finishes, manufacturer logos, raw or polished, wash-beton, polished or textured with brushing and shotblasting, waxed, and more.

INNOVATION IS IN OUR DNA

Leading the concrete market with successive innovations:

1904

CASSANI

Creates the **world's first floor grinders**

1963

CASSANI

Launches the **world's first linear grinders**

1987

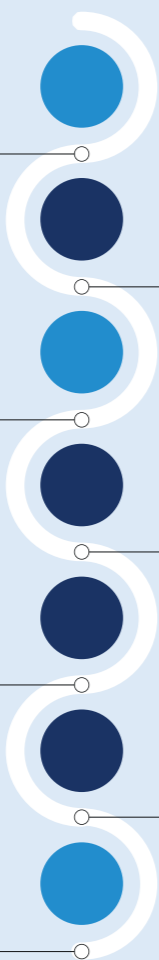
LONGINOTTI

Introduces **automatization of washbeton**

2005

CASSANI

Launches the **world's first digital printing lines for cement**



1960

LONGINOTTI

Creates the **first automatic slab movement machines**

1970

LONGINOTTI

Patents the first **single-layer technology**

1990

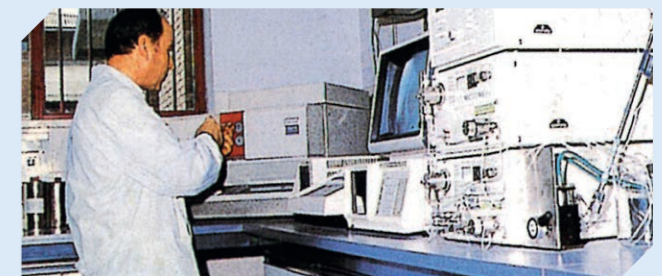
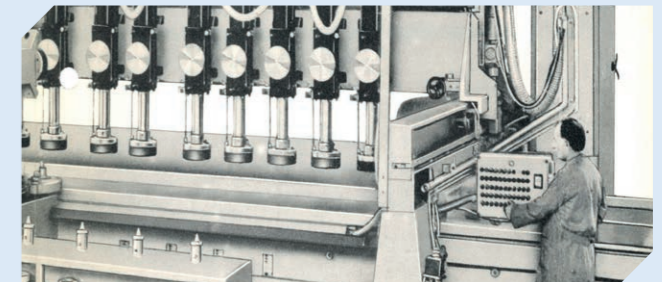
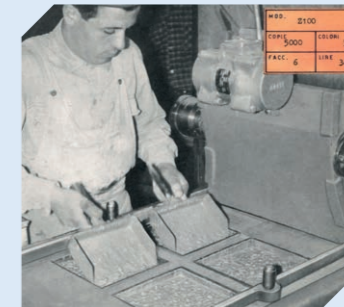
LONGINOTTI

Patents **moisture extraction technology for pressing**

Our is a history of continuous invention and development.

Nothing borrowed: every Longinotti machine is developed in-house and adapted to work in perfect harmony with the others. We start with an idea, develop and build it, synthesize all previous experiences, simplify and improve. The small department from 1960, where prototypes were assembled and tested, has now become a dedicated team of technicians, always looking for new and better solutions, iteratively adding technical quality and robustness. They look to customer needs for different products and sizes and shapes of plants, even creating compact and modular versions of machines to fit around smaller or busier work spaces.

Our unique MS™ single-layer technology sets us apart, family of turnkey production lines that can produce single or double layer tiles in agglomerated concrete.



Our unique presses are capable of automated production of slabs in agglomerated concrete from 250x250mm to 1400x600 (and larger on request), with production over 200m²/hr. Each production group is designed with a different level of productivity in mind, with larger models offering larger product formats. All the standardized technological innovations have been incorporated into each machine.

INDUSTRY 4.0 AND THE FUTURE:



Our machines can be equipped with a tele-service system, so our engineers can connect directly to check and correct working conditions and settings of the PLC. We can also automate data collection and transmission, and production set-ups can be automateand performance tracked remotely, helping improve production cycles and efficiency and reduce downtime.

Technological progress will remain a touchstone as we strive to better serve our customers as quality innovators and manufacturers.

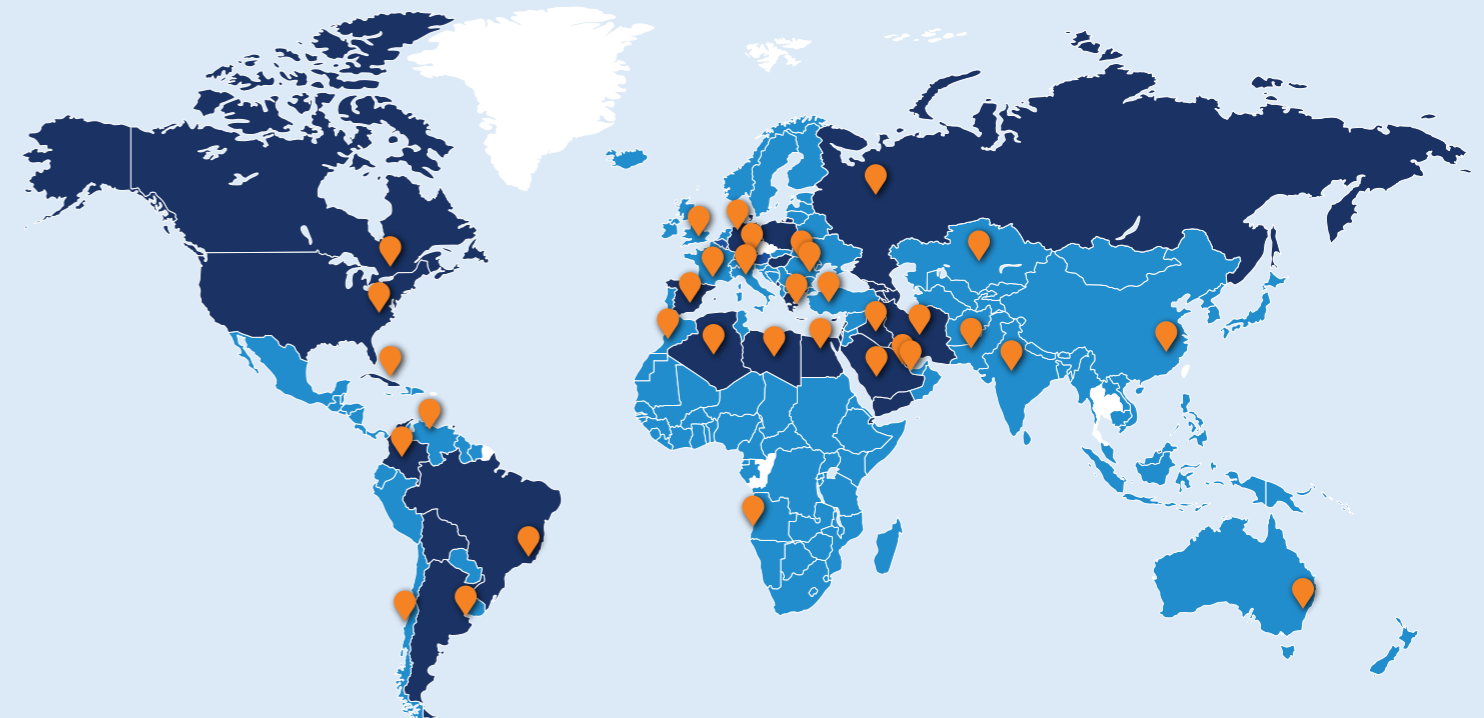
A ROBUST AND USER-FRIENDLY PARTNER

Now part of the CASSANI Longinotti Group, we can confidently say we have more machines and installations in the world than any other company in our sector, **with hundreds of turnkey plant projects** for full slab production and finishing lines.

Our joint multilingual commercial and technical teams are here to give you peace of mind on your investment, minimise your down-time and optimise your maintenance processes.

The CASSANI Longinotti Group has an extensive global sales and technical assistance network through **30 sales agencies covering 50 countries**.

They are in constant contact with the head office in Besozzo, Italy, guaranteeing sales coverage and an extensive network of aftersales service and spare parts.



A designation which stands for quality:

our approach remains the same as always: **we manufacture in Italian production plants using the highest quality** components and we certify the absolute originality and origin of each of our technological products.

When you buy LONGINOTTI machines, you are buying the precise technical, manufacturing and regulatory requirements of our national designation.

**OUR
 SERVICE
 TEAM**



MECHANIC

Our Service team consists of mechanics, engineers and software engineers, supporting the customer for specific needs. Multilingual technicians travel all over the world to set up our plants and support our customers through the after sales service.

Our original spare parts are synonymous with guarantee, reliability and durability. Orders for wear components and spare parts are addressed by our service team in short timeframes and our service engineers are always available to answer client calls.

LONGINOTTI

CONCRETE APPLICATIONS: AN ARCHITECTURAL AND DESIGN RENAISSANCE

From brutalist building exteriors to colourful terrazzo home interiors, concrete has taken center stage again as complement to more traditional uses.

Concrete is the most widely used construction material, thanks to its qualities: strength, low porosity, high resistance and economic advantage over granite, marble and natural stone. And in the last decade, it has become mainstream again in exterior and interior design aesthetics.

Cassani and Longinotti machines play a critical role in manufacturing and treating concrete slabs and blocks to deliver those qualities in a near-infinite range of decorative styles.

HERE WE SHOWCASE

SOME OF THE MANY APPLICATIONS OUR MACHINES ARE USED FOR.



RESIDENTIAL & COMMERCIAL

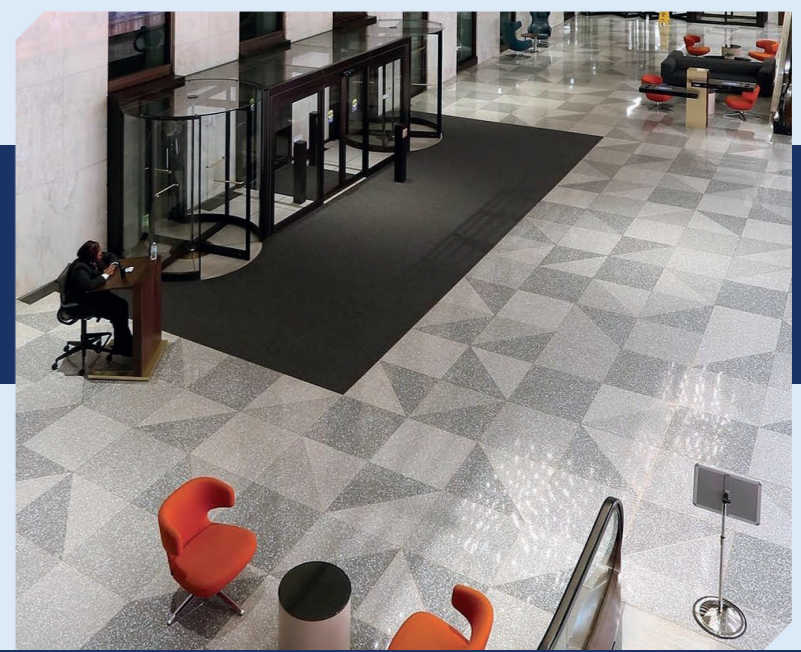
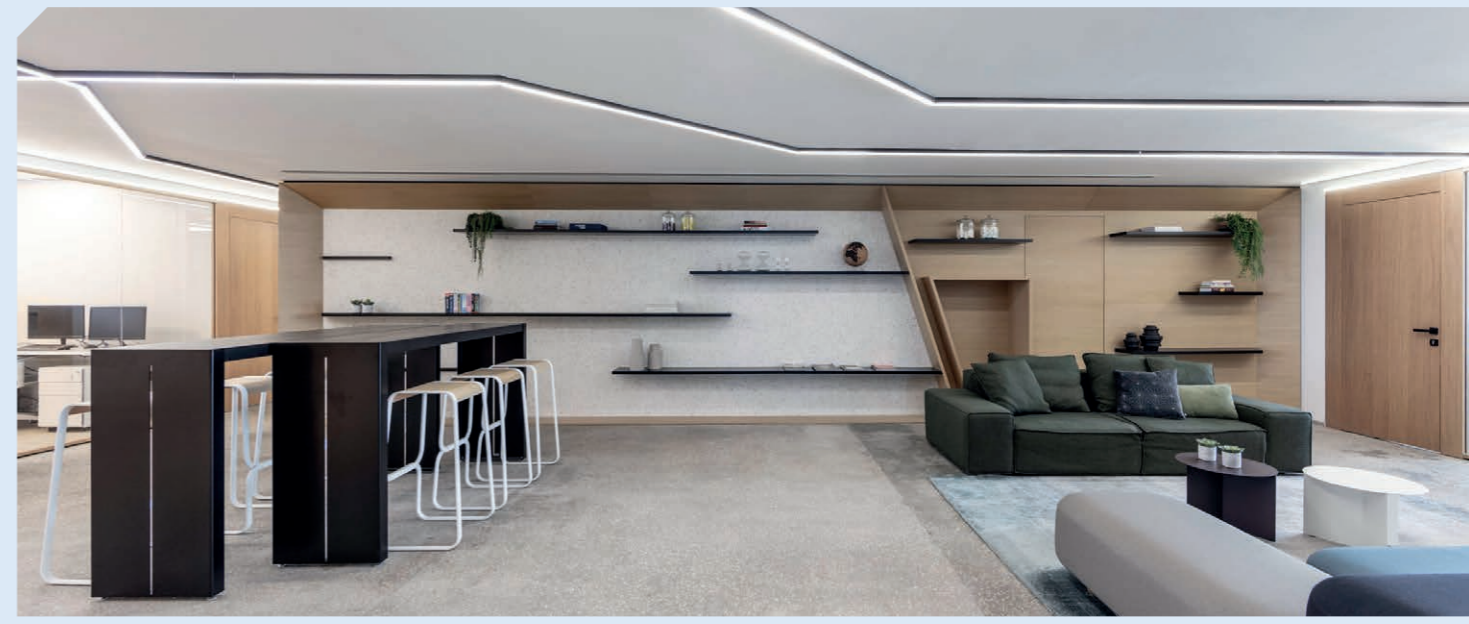


LONGINOTTI CONCRETE APPLICATIONS: AN ARCHITECTURAL AND DESIGN RENAISSANCE

RESIDENTIAL & COMMERCIAL



Image by Otto Tiles & Design



BEYOND FLOORS: WALLS, STEPS, RAISED FLOORING, AND DECORATIVE SLABS

We manufacture and install machines and turnkey projects allowing the production of the widest range of agglomerated cement products:



Wall-cladding tiles: low relative weight and high compactness of the tiles produced allow use for exterior cladding of buildings and industrial units.



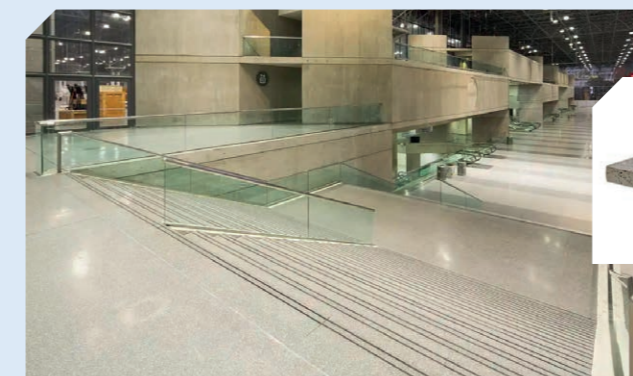
Raised Flooring slabs: the lower weight, reinforced structure, tolerance, stability and possibility of chamfering (all following regulations UNI 7998 UNI 10462 UNI 10467)

RESIDENTIAL & COMMERCIAL



Image by Otto Tiles & Design

Countertops and decorative slabs for kitchens and bathrooms.



Stairway slabs: treads and risers for high traffic areas, up to 1350 x 370 mm and up to 60 mm thick, hard-wearing and with infinitely customizable finishes.



2

LONGINOTTI

CONCRETE APPLICATIONS: AN ARCHITECTURAL AND DESIGN RENAISSANCE



MASONRY BLOCKS, PAVERS, CURBSTONES AND MORE



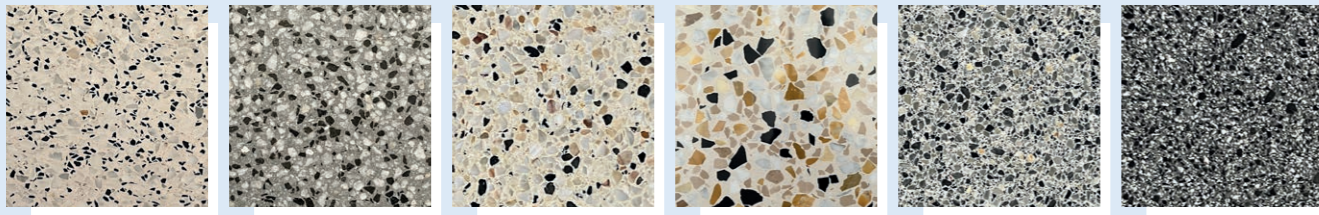
Longinotti's finishing lines have dedicated machines for slabs, masonry blocks, interlocking pavers and curbstones, performing all of the same treatments including polishing, shotblasting, brushing, chamfering and more.



2 LONGINOTTI
**CONCRETE APPLICATIONS:
 AN ARCHITECTURAL AND
 DESIGN RENAISSANCE**

ENDLESS FINISHES OF FINAL PRODUCTS

POLISHED TERRAZZO TILES



PRESSED AND WASHED TILES



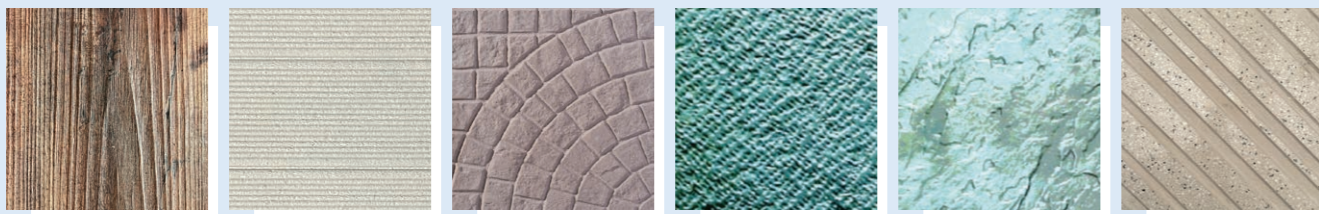
TEXTURE PRESSED TILES



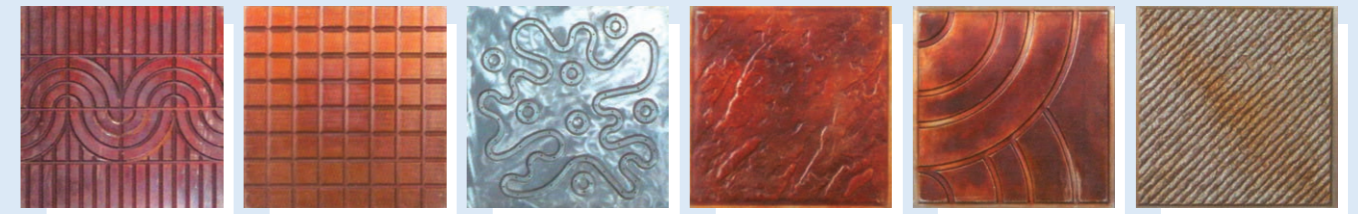
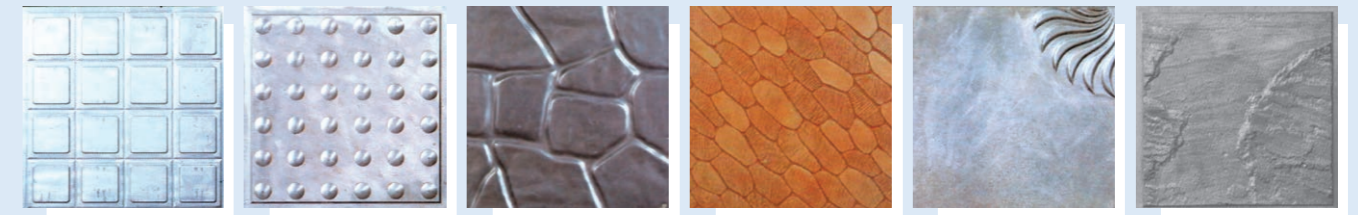
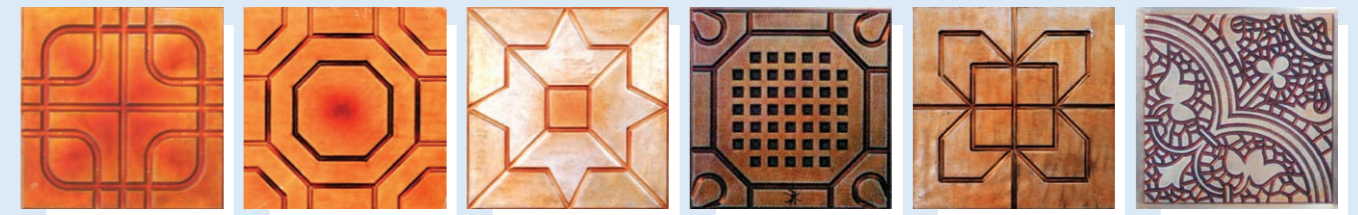
TEXTURE PRESSED, POLISHED AND SHOTBLASTED



TEXTURE PRESSING EXAMPLES



EXAMPLE OF PRESS MOULDS



LONGINOTTI TURNKEY PLANTS AND LINES FOR CONCRETE PRODUCTS

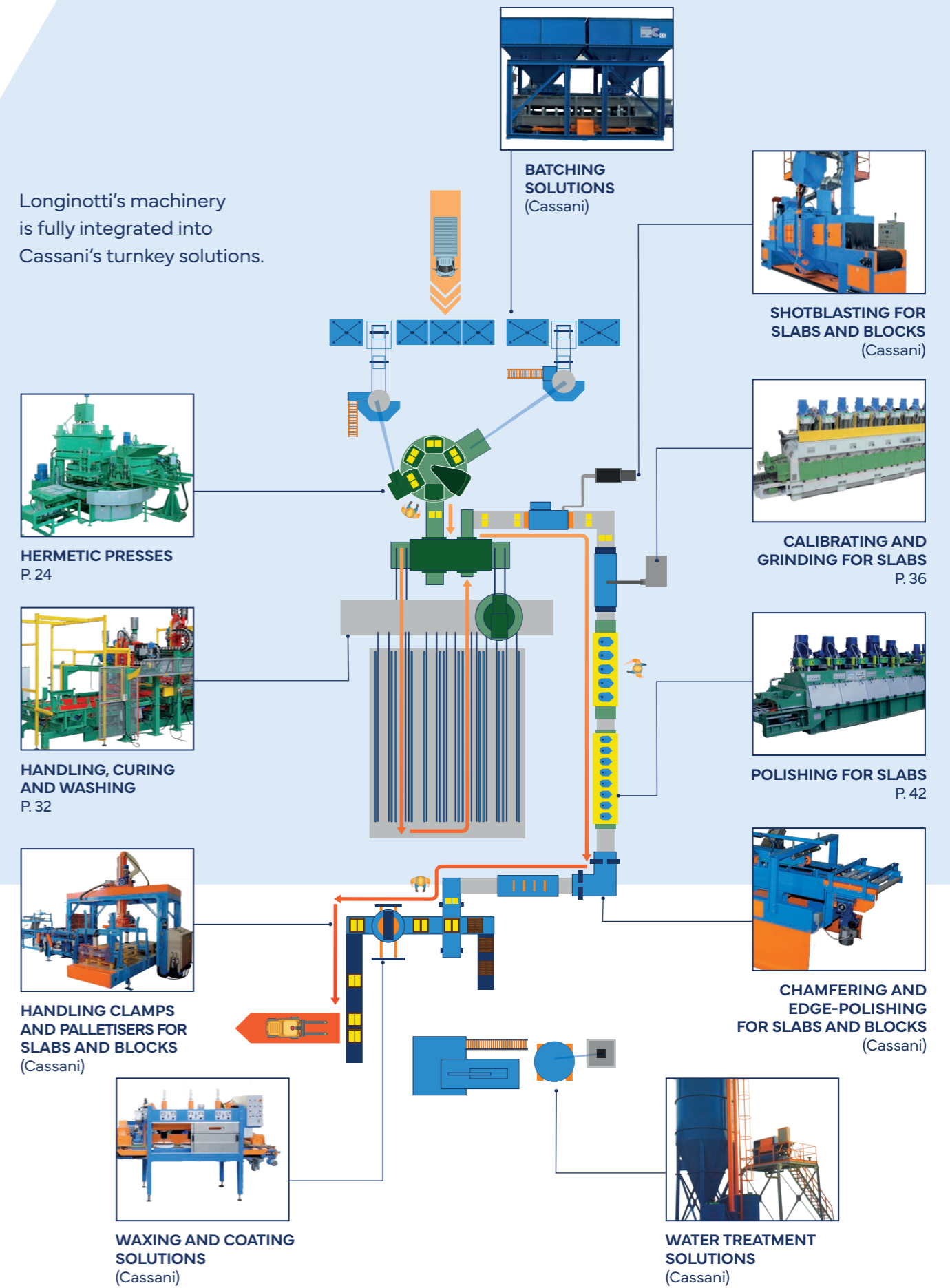
Our core strength is the design and delivery of full production plants and multi-machine lines.

Starting from your end-product specification, plant space and budget, our multi-lingual technical department will work alongside you to design a custom production line that meets your needs. This same technical team provides **direct and constant ongoing support** to assist you during all the implementation phases.

On delivery of the equipment, our team of mechanical and electrical engineering team will arrive at your location for assembly and testing. These engineers are **always on call** and can travel to **any destination** to assist customers. Furthermore, they train and educate your personnel on how to get the most out of your CASSANI Longinotti equipment.



Longinotti's machinery is fully integrated into Cassani's turnkey solutions.



HERMETIC PRESSES

LONGINOTTI HERMETIC PRESSES ARE THE ABSOLUTE QUALITY LEADERS FOR HIGH-VOLUME SINGLE-LAYER AND DOUBLE-LAYER SLAB PRODUCTION FROM SIZE 200MM TO 1400MM.

| TAILORED TO YOUR NEEDS



The broadest range of presses to satisfy your format and productivity needs, with huge productivity up to 200m²/hr.



New system allows switching from indoor to outdoor tiles by simple and quick replacement of the polyurethane mould.



4 to 6 stations with patented technology allowing production of single-layer, double-layer slabs, or both.



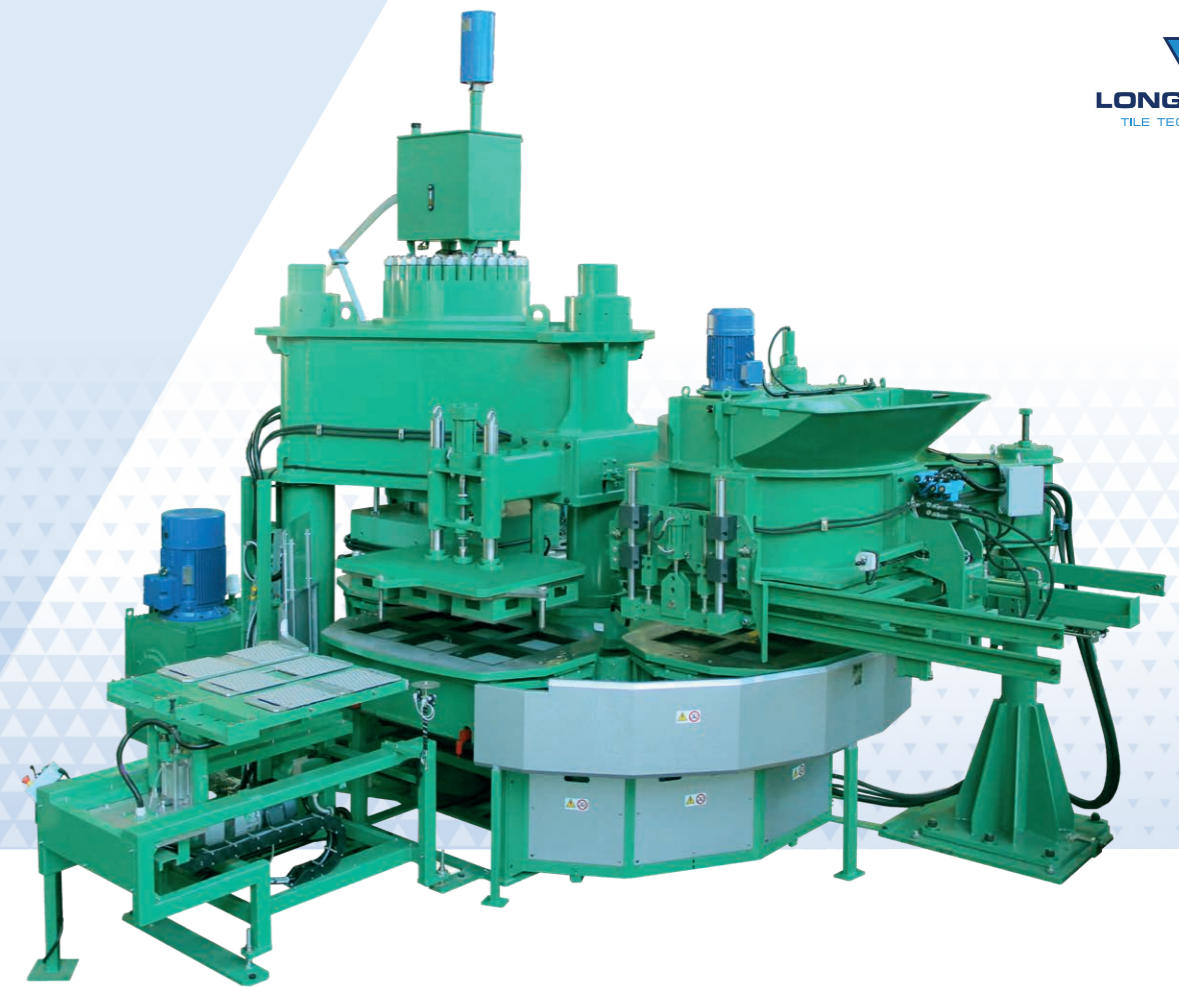
Our single-layer presses are equipped with the unique, patented Longinotti "MS" system for the evacuation of the excess water from the wet mix through the pressing pad.



A wide range of application including indoor and outdoor floors and wall surfaces: chamfers and moulds can be used to obtain endless tile effects and surface finishes.

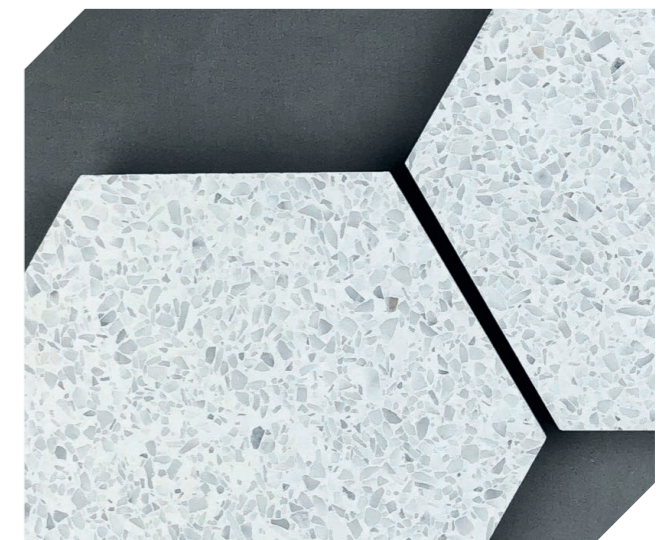
| ENGINEERED FOR EXCELLENT RESULTS

- Automatic mortar dosator with two-speed planetary mixing. Direct delivery from dosing buckets into moulds using a special system and level sensors to fill and empty the doser cups, ensuring high precision and consistency of the mixture.
- Exclusive proportional pressing system programmable up to 5 different stages for excellent, fast compacting. The draining-filtering action and high pressing force results in a very compact, porosity-free product.
- Exclusive electromagnetic encasement of the draining pads for quick and easy replacement of filters.
- Special extracting shovel linked to a flexible demoulding system.
- New "closed-loop" control system of the rotating table: shortens rotation time and improves displacement precision.
- Station failsafe: in case of single station failure, press continues production with the remaining



| ROBUST, SAFE, AND EASY TO USE

- Frame made of exceptionally sturdy steel construction.
- Hydraulic unit specially designed for reduced energy consumption, with programmable valve for optimal compacting of the mix.
- Revolving of the table by means of large-diameter toothed wheel and pinion, driven by geared motor and fed by a separate inverter.
- Easily adjustable, powerful twin vibrators for high-efficiency vibration of the moulds.
- Wear-proof intuitive control panel using Siemens S7 touchscreen technology.
- Anti-wear steel plates under the vibrating boxes.



OPTIONAL

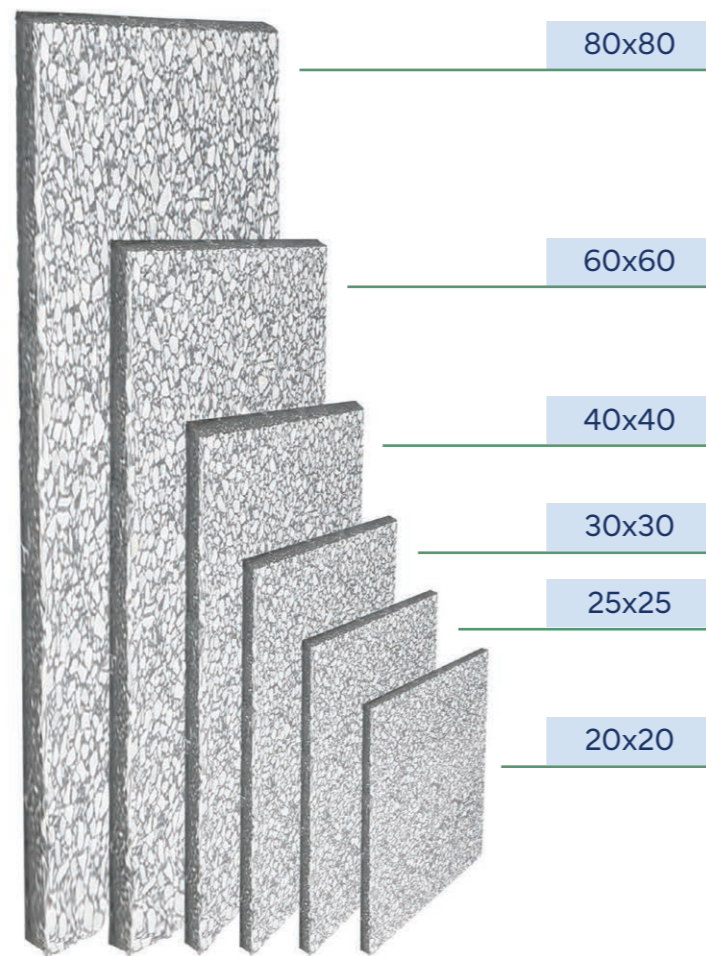
- STANDBY KIT OF DRAINING PAD AND ACCESSORIES FOR MINIMAL DOWNTIME DURING CLEANING.
- CHILLER FOR THE COOLING OF THE HYDRAULIC OIL IN HOTTER CLIMATES.
- TELE-ASSISTANCE THROUGH DEDICATED OR CENTRALISED MODEM.
- OPERATING DATA COLLECTION FOR PERFORMANCE AND BATCH MONITORING.

LONGINOTTI MS™
THE KING
OF SINGLE-LAYER
TILES

LONGINOTTI CREATED AND PATENTED THE TECHNOLOGY FOR CONCRETE SLAB PRESSING THAT LEADS THE MARKET TODAY: A COMPACT, LIGHT, NON-POROUS, HIGHLY DURABLE AND EASY-TO-FIT TILE.

- Create the art of Venetian mosaics with all its splendor, color and contrasts using only cement, marble powder and chips and water.
- Adaptable from smaller (200x200mm) to larger formats one (1400x600mm) in square, hex or rectangular formats with thickness from 10mm to 60mm.
- For flooring or wall cladding, even over existing surfaces, and can be treated in many different finishes.
- Can be produced with interior lattice armour to increase resistance under pressure.

FORMAT CM



THICKNESS MM 25 20 14 12 11 10



COMPONENTS		
Binder	Portland Cement 525	
Aggregates	Marble powder and chips	

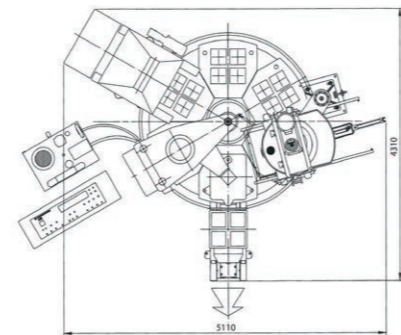
Notes: Aggregate / Cement Ratio 0.32

TECHNICAL QUALITIES AFTER 28 DAYS		
TECHNICAL CHARACTERISTICS	RESULT	APPLICABLE STANDARD
Max Dimension of Crushed Aggregate	4-8 mm	
Specific Weight	2.5-2.6 kh / dm3	UNI 10444
Flexural Strength	11.7-12.0 N/mm2	UNI 6133
Compressive Strength	90-100 N/mm2	DIN 52105
Abrasion Resistance	430-460 mm2	UNI 10532
Water Absorption	4.0-4.5% (of weight)	UNI 10444
Fire Classification	Class 0	ISO / DIS 11822
Behaviour of Freeze and Thaw	Resistant	DIN 52104

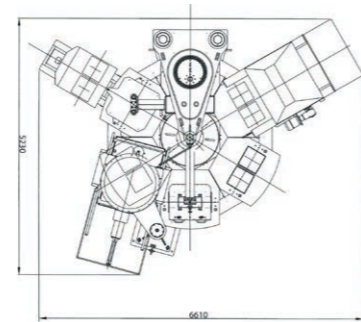
MODELS

10 AVAILABLE SIZES BASED ON
YOU NEEDS OF PRODUCT
AND PRODUCTIVITY.

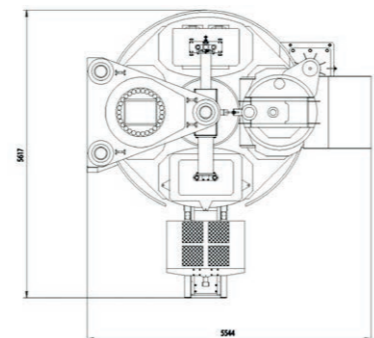
K256



K606



K1204



FORMAT PRODUCTIVITY FOR SAMPLE PRESSES

K205	Production m ² /hr	16	44	31	39	56	
	Formats	200x200 (4)	250x250 (2)	300x300 (1)	333x333 (1)	400x400 (1)	
K256	Production m ² /hr	85	90	78-65	60	90	85-65
	Formats	200x200 (6)	250x250 (4)	333x333 (2) 300x300 (2)	400x400 (1)	500x500 (1)	300x600 (1) 400x600 (1)
K606	Production m ² /hr	135	130	155	115	160	160
	Formats	250x250 (6)	300x300 (4)	333x333 (4)	400x400 (2)	400x600 (2)	700x700 (1)
K754	Production m ² /hr	130	100	110	140	75	110
	Formats	333x333 (4)	400x400 (2)	300x600 (2)	400x600 (2)	500x500 (1)	600x600 (1)
	Production m ² /hr			180	180		
	Formats			800x800 (1)	1350x370 (1)		
K1204	Production m ² /hr	195	190	160	145	200	150
	Formats	333x333 (6)	400x400 (4)	300x600 (3)	400x600 (2)	600x600 (1)	1350x370 (1)
	Production m ² /hr			180	180		
	Formats			800x800 (1)	1400x600 (1)		
K1406	Production m ² /hr	200	190	150	145	216	250
	Formats	333x333 (6)	333x333 (4)	500x500 (2)	400x600 (2)	600x600 (1)	800x800 (1)



A SAMPLE SELECTION OF
HERMETIC PRESSES TO MEET YOUR NEEDS

Our proprietary technology is customisable to your specific needs: if your requirements are not in the table below, please let us know and we will propose alternatives.

HERMETIC PRESS MODEL	K165-K205	K256-K306	K606	K754	K1204	1406
Production in m2/hr*	56	60	115	100	190	200
Max Pressing Force (Ton)	200	300	600	750	1200	1400
Installed Power (Kw)	17	27	51	65	84	91
No. of Stations	5	6	6	4	4	6
Max Format Size**	400 x 400	400 x 600	700 x 700	800 x 800 1350 x 370	800 x 800 1400 x 600	800 x 800 1400 x 600
Max Slab Thickness	60	60	80	80	80	80
Total Weight (Ton)	8	14	31	32	61	63

PRODUCT
DETAIL IMAGES



1 Upper Vibrating Detail.



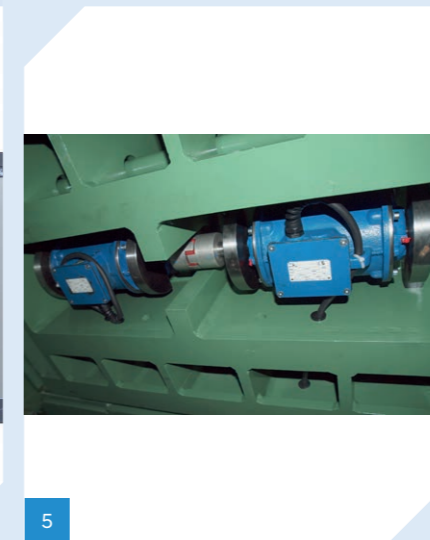
2 Planetary mixer detail.



3 Large format moulding equipment.



4 High-resistance Touchscreen control panel.



5 Vibrator units detail.



6 Pneumatic control unit.

LONGINOTTI

HANDLING, CURING AND WASHING

FULLY AUTOMATED LINES FOR THE HANDLING OF FRESH AND CURED SLABS. FRESHLY-PRESSED SLABS ARE DEPOSITED ON STEEL TRAYS WHICH ARE THEN STACKED AND CAN BE TAKEN TO A CURING AREA BY FORKLIFT OR BY DEDICATED ROBOT. WHEN TRAYS ARE BROUGHT BACK, SLABS ARE AUTOMATICALLY RETRIEVED AND SENT ON CONTINUE TO THE FINISHING LINE.

TAILORED TO YOUR NEEDS



We can provide transport robots to the curing stage and curing chambers for full automation; alternatively, stacks can be handled by forklift truck.



Customisable self-bearing trays with dimensions up to 1940x1100 mm (standard height: 60 mm); trays can receive various pressing cycles of each size.



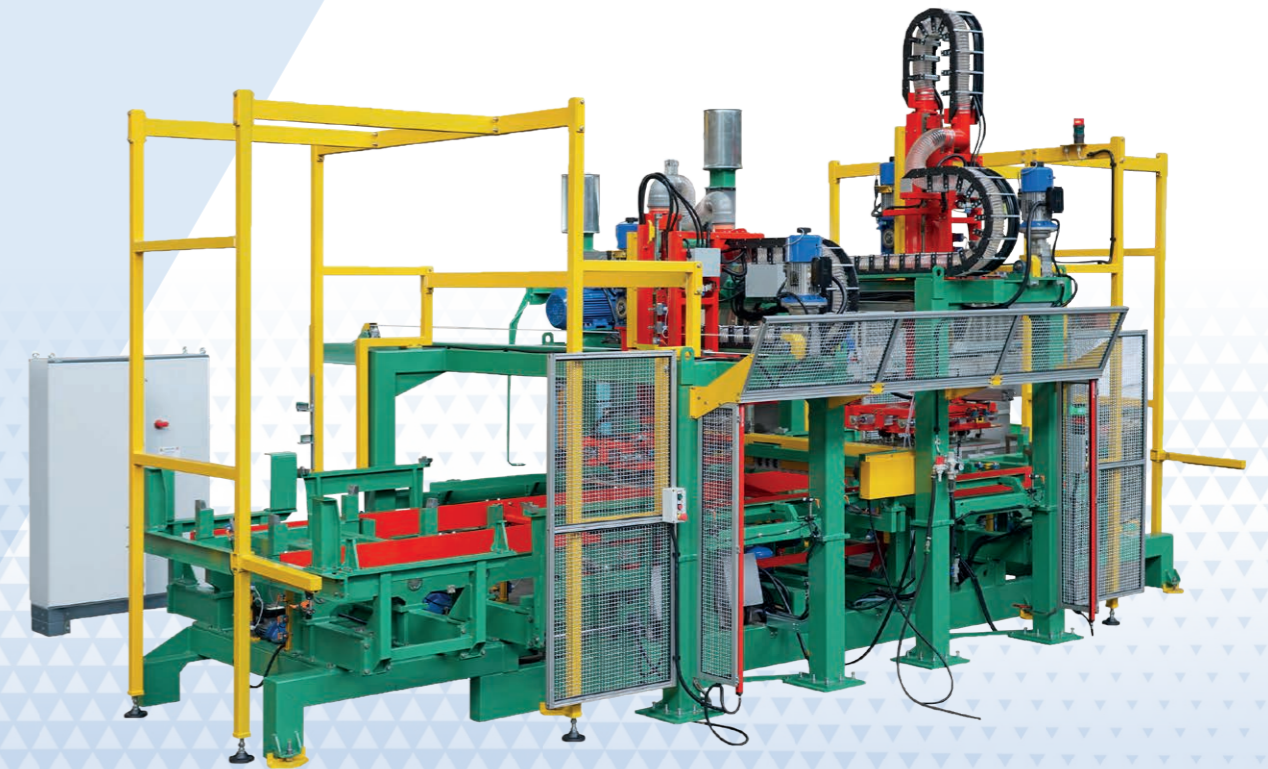
Available as a single unit connected to both the press and the finishing line, or as two independent units for greater flexibility of plant layout.



Extremely compact system allows removal and deposit of the stacks of trays from either the lateral ends or from the front side.

ENGINEERED FOR EXCELLENT RESULTS

- Specifically designed for Longinotti MS Single-Layer slabs, the line is composed by the following stations:
 - Vacuum pick-up of fresh slabs from the extracting shovel of the press, rotating and laying on the tray with the sight-side facing upwards, eliminating risk of damage and warping during the curing process.
 - Stacking-up of the self-bearing trays with the fresh slabs for easy transportation and storage to the curing area.
 - Removal of the stacks of trays containing the fresh slabs.
- Loading of the stacks of trays containing cured slabs.
 - Unstacking of the trays returned from the curing chambers.
 - Vacuum pick-up of the cured slabs and their transfer to the discharging path towards the finishing line.
 - Moving of the empty trays to the beginning of the line.
- All vertical, horizontal and lateral movements via servo drives, thus dynamic acceleration and freely-positionable slab take-off and handover points.



ROBUST, SAFE, AND EASY TO USE

- Lifting and lowering of the stacks of trays through electro-mechanic jacks.
- Galvanized steel pallets for steam treatment and vapour curing in the curing chamber.
- Horizontal pallet movement by walking beam conveyor system via frequencycontrolled gear drive.
- Vertical pallet stack movements via hydraulic stroke.
- Complete with switch-and control board provided with PLC Siemens S7 allowing operations in automatic or manual mode.
- Installed power: 22kW as single unit or 40kw as split unit.



OPTIONAL

- DIRECT-WASHING DEVICE AND WATER PUMP TO PROVIDE WASH-BETON EFFECT.
- FULL CURING CHAMBER SOLUTIONS FOR AIR CURING OR STEAM CURING.
- FULLY AUTOMATED ROBOTIC TROLLEY FOR TRANSPORTATION OF STACKED TRAYS FROM THE DEPOSITING DEVICE TO THE CURING CHAMBERS AND BACK.

LONGINOTTI
WASHBETON



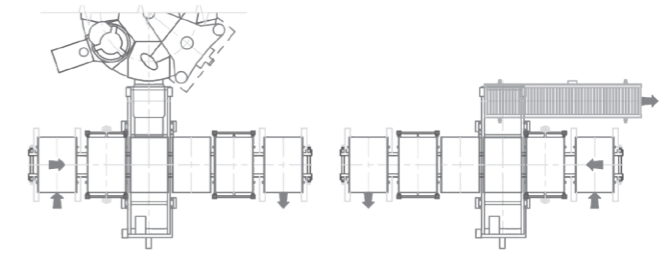
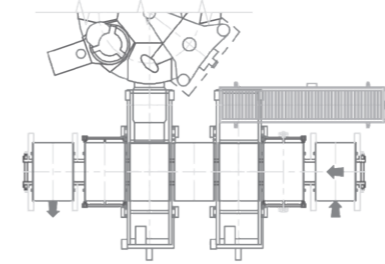
Washbeton: rounded aggregates are used to create the natural pebble look. The tiles are washed in a manner to expose approximately one third of the pebble diameter. This way, two thirds of the pebble still remains embedded in the tile and will not come off even when subjected to extremely abrasive stress.



Wash-beton Longinotti.

CM FS
| SINGLE UNIT

CM F+S
| SPLIT UNITS



PRODUCT
DETAIL IMAGES



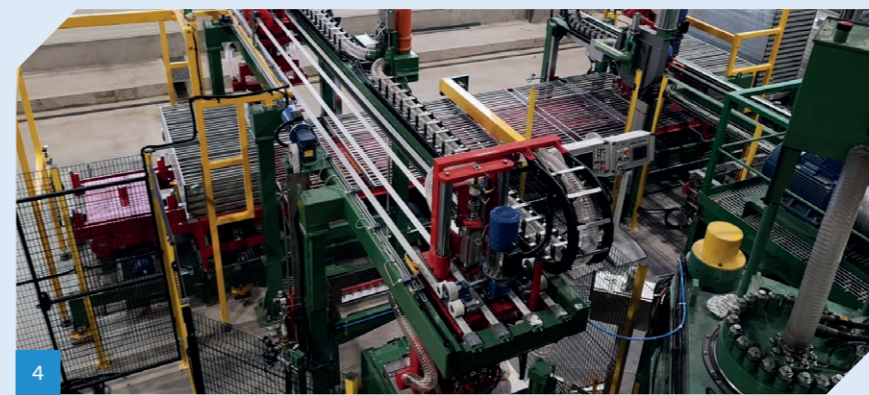
Vacuum arm detail



Horizontal depositing on trays.



Robot trolley collecting trays.



Transfer from press shovel to device.



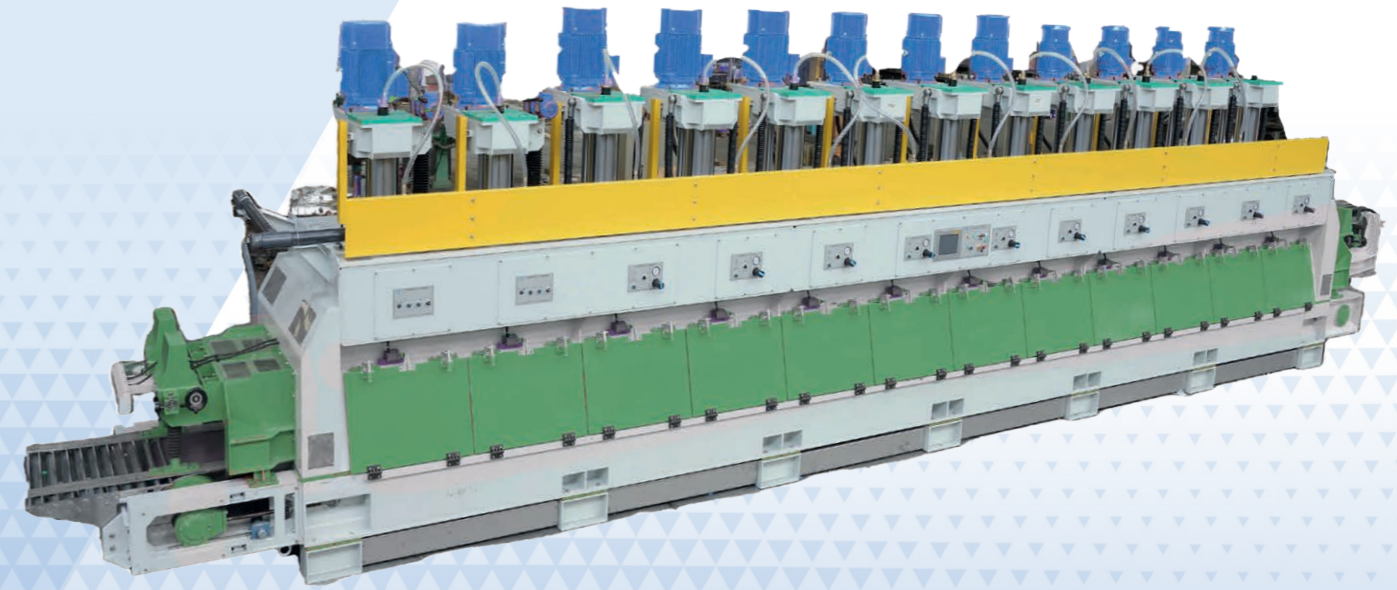
Integrated touch-screen control system

LONGINOTTI

CALIBRATING, GRINDING FOR SLABS AND BLOCKS

THE LATEST SERIES OF LONGINOTTI MS™ GRINDERS AND POLISHERS HAVE BEEN SPECIALLY DESIGNED FOR THE SINGLE-LAYER PRODUCT OF REDUCED THICKNESS AND LARGE DIMENSIONS.

They have great power and productive capacity are built in a robust single structure, adaptable to different lengths and variable number of heads can be mounted to achieve different results. Special attention has been dedicated to the sturdiness and rigidity of the steel structure to achieve a high precision of work and excellent calibration and polishing.



TAILORED TO YOUR NEEDS



Range based on useful belt width size from 430mm – 840mm, with larger available on request, and up to 17 mounted heads depending on the finishing required.



Available in Wet working or Dry working mode (no water treatment required).

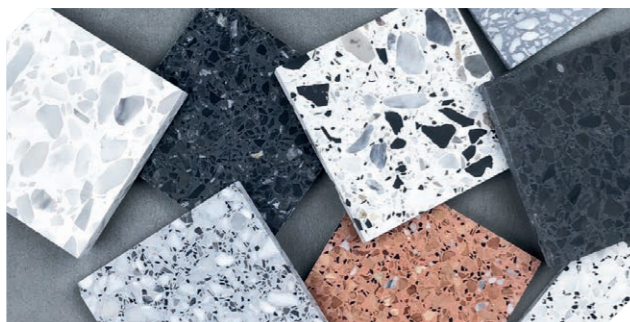


Available for concrete slab or block products.



Belt speed from 1-6 meters per minute, on one row or two rows of product at a time.

ENGINEERED FOR EXCELLENT RESULTS



- Heads are mechanically or pneumatically operated depending on scope and mounted with either diamond discs or carborundum wheels.
- Frankfurt disks are fitted with a special elastic joint to automatically adapt the surface of the abrasives to the surface of the slabs to be worked on.
- Water supplied through the shaft of the diamond tool holder spindle and through centrifugal distribution provides optimal cooling of the diamond segments.
- A control device at the machine entrance uses a motorized separator to eliminate impact bumps from incoming products.

ROBUST, SAFE, AND EASY TO USE

- Central structure in stainless steel.
- Access doors in very thick aluminum, stainless steel casing and electromechanical safety locks.
- Monolithic structure for fixed heads and mobile bridge eliminates vibration for smooth grinding.
- Anti-wear steel plane made up of easily replaceable plates supporting the belt.
- When running two rows in parallel, slabs are guided laterally and in the center by stainless steel guides for low sliding friction.
- Each head is equipped with its own control panel with all functions to allow joint or independent operation, with pressure adjustment and abrasive consumption.
- Main electrical panel mounted on the machine.

OPTIONAL

- QUICK CHANGE™ MECHANISM FOR ABRASIVE DISK MOUNTS.
- BELT IN CLOSED LOOP (NO CUTTING, NO WELDING) BOTH FOR ASSEMBLING AND DISASSEMBLING (SPECIFIC MODELS ONLY).
- VENTILATOR AT THE EXIT OF THE MACHINE FOR DRYING THE UPPER AND LOWER FACE OF THE SLABS.
- STANDARD OR BARREL-TYPE TURNOVER MACHINES TO FLIP UPSIDE/DOWN ONE OR TWO ROWS OF SLABS FOR FURTHER PROCESSING.
- ROW CONSOLIDATOR - CONSOLIDATE 2 ROWS OF SLABS INTO 1 ROW (PRE-CHAMFERING STAGE)
- FEEDING AND TRANSPORT PATHS.
- FULL SUPPLY OF DIAMOND AND FRANKFURT ABRASIVE DISCS.

GND SERIES

STANDALONE CALIBRATORS

- On **GND machines**, all heads use diamond tools to calibrate the bottom face of slabs.

Some examples (for complete series see pag.40):

GND80/ 4 Heads



GND80/1 Head



**GN STANDARD
 AND GN/MS SERIES**

COMBINED CALIBRATION
 AND GRINDING

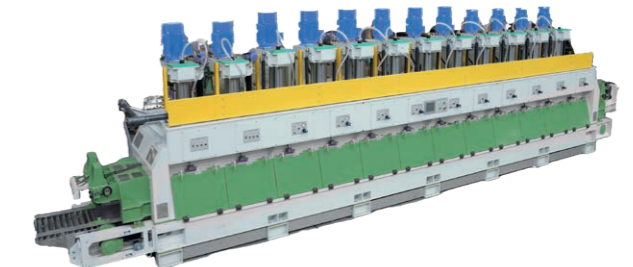
- **GN Standard series** with up to 12 fixed heads, capable of performing calibration and grinding tasks. Each head can be configured with either a diamond tool or a Frankfurt abrasive tool.
- **New GN/MS series** are specifically designed for single-layer slabs, as a one-machine solution with 10-15 heads, a combination of diamond-tipped mechanical heads and Frankfurt abrasive pneumatic heads.

Some examples (for complete series see pag.40):

GN60/ 10 Heads

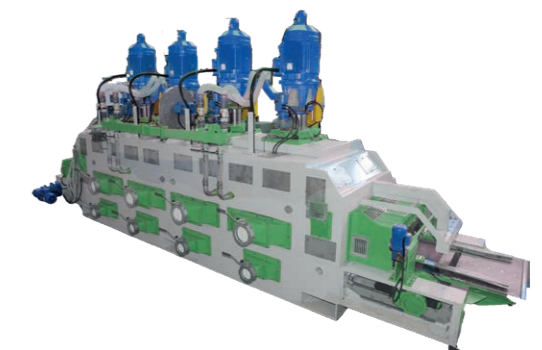


GN50/ 12 Heads for Blocks



GN40/ 4 Heads for Blocks

in Dry Operation

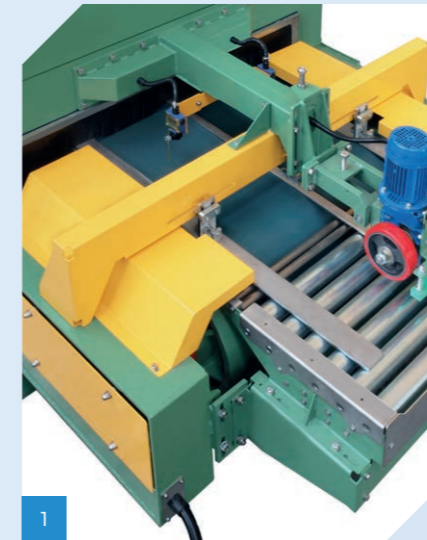
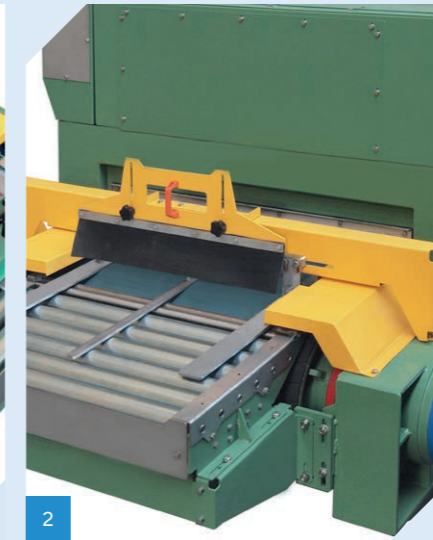
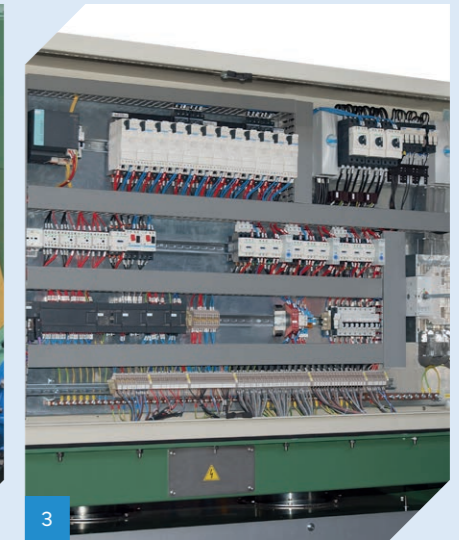


CALIBRATING, GRINDING FOR SLABS AND BLOCKS

GN SERIES	40	50	80
Useful Belt Width (mm)	430	500	700
Abrasive Diameter (mm)	570	640	790
Range of Worked Product Height (mm)	15 - 60	15 - 60	15 - 60
Belt Speed (m/min)	1 - 6	1 - 6	1 - 6

	Length (mm)	Total Connected Load (kW)	Water consumed (m ³ /hr)	Max Length (mm)	Total Connected Load (kW)	Water consumed (m ³ /hr)	Length (mm)	Total Connected Load (kW)	Water consumed (m ³ /hr)
GND SERIES									
CALIBRATOR 1 HEAD	3500	21	4	3800	30	4	3800	38	4
CALIBRATOR 2 HEADS	3900	32	9	4682	52	9	4600	67	9
CALIBRATOR 4 HEADS	5100	91	16	6400	98	16	6680	121	16
CALIBRATOR 6 HEADS				7200	141	24	8600	180	25
CALIBRATOR 7 HEADS				6400	98	14	9600	215	29
GN SERIES									
GRINDER 6 HEADS	6300	145	22	7700	205	25	8600	261	23
GRINDER 8 HEADS	7500	185	36	9600	250	33	10600	327	30
GRINDER 10 HEADS				11500	337	41	12600	412	38
GRINDER 12 HEADS							14600	497	45
GN MS SERIES									
2 CALIBRATOR + 8 POLISHER HEADS	9700	111	32						
3 CALIBRATOR + 10 POLISHER HEADS	11600	147	40						
3 CALIBRATOR + 12 POLISHER HEADS	12700	162	47						
4 CALIBRATOR + 12 POLISHER HEADS	13450	184	51						
5 CALIBRATOR + 12 POLISHER HEADS	14350	206	55						

PRODUCT DETAIL IMAGES

1
Entry bay detail.2
Exit bay detail.3
Electrical panel.4
Diamond head tool detail.5
Frankfurt head tool detail.

LONGINOTTI

POLISHING FOR SLABS AND BLOCKS

LONGINOTTI'S GNP SERIES IS DESIGNED FOR POLISHING MARBLE AND AGGLOMERATED CEMENT AND ENGINEERED STONE TILES.

| TAILORED TO YOUR NEEDS



Two classes of machines differing in the useful width of the conveyor belt, GNP 70 (700mm) and GNP 80 (830mm).



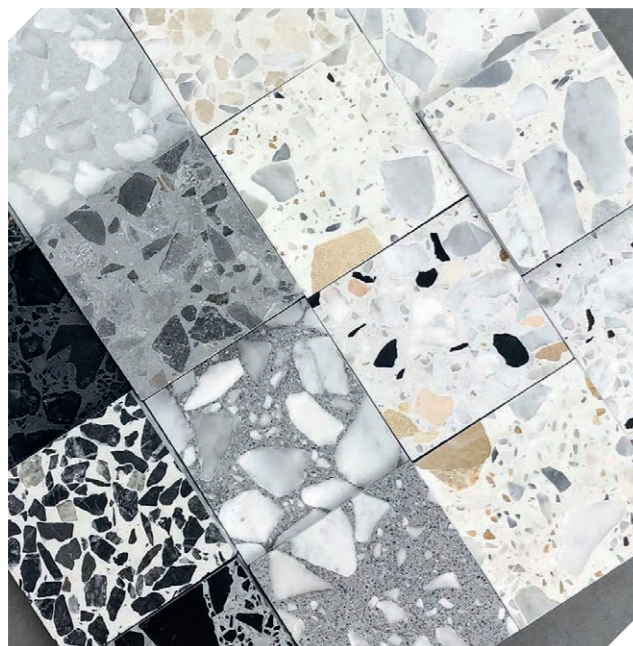
Up to 12 pneumatic polishing heads mounted on the 70 on a monolithic and sturdy mobile bridge; up to 16 on the 80.



The GNP 70 has an optional integrated sight-side calibration/grinding unit in the same structure, with 3-5 fixed mechanical-pressure heads that provide vibration-free calibration before the polishing stage. For the 80, this calibration unit is a separate machine (see technical diagram).



The width of the stroke is adjustable according to the format to be processed.



ENGINEERED FOR EXCELLENT RESULTS

- Calibrating heads raised/lowered by electromechanical system; polishing pressure is pneumatic.
- Transversally mobile beam along which the polishing heads are arranged.
- The Frankfurt-holder plate is fixed to the spindle through an elastic joint for an excellent adaptation to the tile surface.
- Cooling water fed through an axial cavity in the spindle itself and also by a radial distribution on the diamond-tipped heads.
- Centralized, programmed automatic lubrication by pump of all concerned points.
- Belt speed is 1-6 m/min.



| ROBUST, SAFE, AND EASY TO USE

- Tiles held in position by stainless steel guides.
- Conveyor belt made of multi-layer PVC, sliding on replaceable anti-wear steel plates.
- Access doors are made from thick aluminium sheeting, with safety control devices that interrupt the electrical feed when they are opened.
- Each head is provided with its own control panel.
- Special device for creating a small gap between consecutive tiles when entering the machine.

OPTIONAL

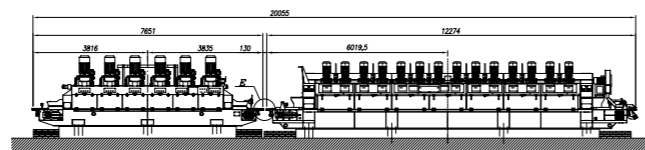
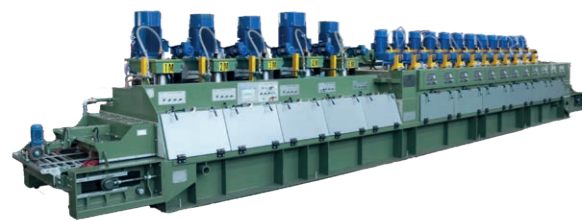
- GNP 80 MACHINES CAN BE PRECEDED IN A SERIES BY A SMALLER, 1-4 HEAD MACHINE TO CALIBRATE THE BOTTOM OF THE TILES, EQUALIZING HEIGHT TO A TOLERANCE OF TENTHS OF A MILLIMETRE.
- QUICK-CHANGE ABRASIVE MOUNTS AND ABRASIVE SUPPLY.

GNP SERIES

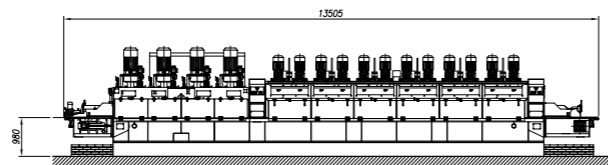
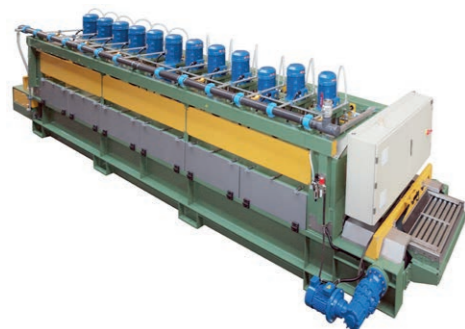
AVAILABLE IN TWO BELT SIZES,
 WITH AND WITHOUT
 INTEGRATED CALIBRATION

Some examples (for complete series see pag.46-47):

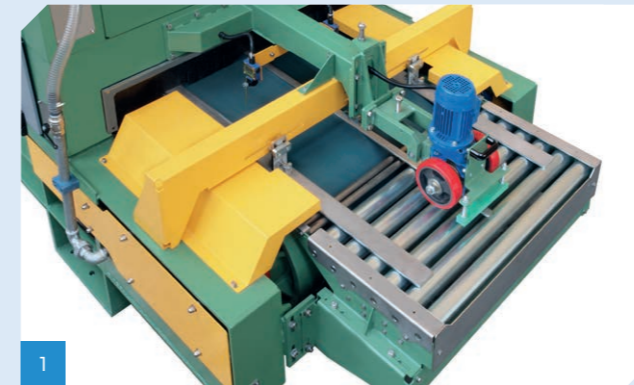
GNP 70 with Calibration
 / 5 + 12, with 5 Calibrating
 and 12 Polishing heads



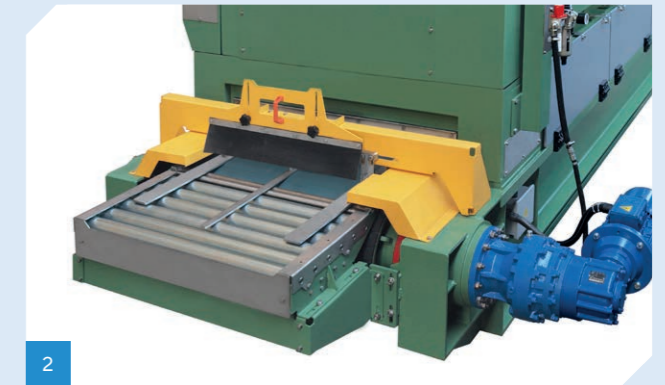
GNP 80 Polisher
 / 12 Heads



**PRODUCT
 DETAIL IMAGES**



1 Loading bay detail.



2 Unloading bay detail.



3 Diamond head tool detail.



4 Frankfurt head tool detail.

GNP SERIES Technical Specifications

GNP SERIES	70 / with Calibration	70 Polish-Only
Useful Belt Width (mm)	710	710
Abrasive Diameter	790	790
Range of Worked Product Height (mm)	15 - 60	15 - 60
Belt Speed (m / min)	1 - 5	1 - 5

GNP SERIES	80
Useful Belt Width (mm)	840
Abrasive Diameter	890
Range of Worked Product Height (mm)	15 - 60
Belt Speed (m / min)	1 - 5

	Max Length (mm)	Total Connected Load (kW)	Water consumed (m3/hr)	Max Length (mm)	Total Connected Load (kW)	Water consumed (m3/hr)
POLISHER 8 HEADS				7700	60	25
POLISHER 10 HEADS				8950	78	31
POLISHER 12 HEADS				10200	96	37

	Max Length (mm)	Total Connected Load (kW)	Water consumed (m3/hr)
POLISHER 12 HEADS	11100	117	37
POLISHER 14 HEADS	12350	135	43
POLISHER 16 HEADS	1500	160	50

3 CALIBRATOR + 10 POLISHER HEADS	11950	147	40			
3 CALIBRATOR + 12 POLISHER HEADS	12700	162	47			
4 CALIBRATOR + 12 POLISHER HEADS	13450	184	51			
5 CALIBRATOR + 12 POLISHER HEADS	14350	206	55			



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