

NOVABLOC

(English)



poyatos



MODULAR VIBRATION SYSTEM (WORLD WIDE PATENT BY POYATOS):

The concrete products making machine model Novabloc is equipped with modular vibration system patented by POYATOS. The modular vibration system consists of two vibrator shafts moving in a synchronized unidirectional way. Each one of the shafts has two eccentric masses. The masses at full load and speed, without stopping, join its force or balance between each other, generating vibration or avoiding vibration, whilst the motor runs continuously.

This system creates the following advantages:

- Energy savings due to non stop/starting of the motor.
- Reduced cycle times (approx. reduction of 2 seconds per cycle).
- Instant stop of vibration prevents segregation of row materials.
- Reduced maintenance to all mechanical parts of the vibration system.
- Operation is performed by just one standard,

maintenance free motor, 22 kW to 1500 RPM..

- Automatic adjustment of both vibration amplitude and frequency..

The modular vibration is an extremely reliable, largely proved, fast and efficient system of vibration and at the same time low demanding in terms of operation and maintenance.



The Novabloc machine can be offered to manufacture on either wooden, steel, or plastic production boards with dimensions ranging from (1200 - 1400) to (550 - 900) mm and optionally equipped to manufacture face mix products.

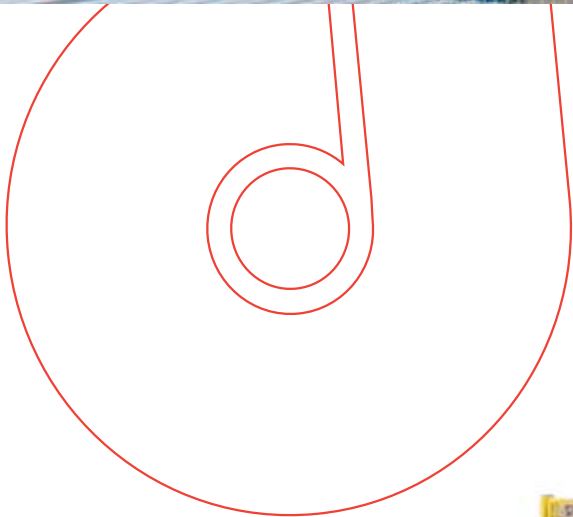
The Novabloc is equipped with one or two automatic finger cars customized to the requirements of each project in terms of the number of levels, loading capacity, rotating platform. A manual or automatic buffer system for production boards can also be included.

The Novabloc line includes an electronic automatic stacker with double central column and the following main specifications:

- High speed of the translation and up & down movements.
- Independent grasping from the two sides, controlled by encoder to apply to each product the right pressure parameters (duly saved for each product at the running program).
- Optional vacuum system for stacking thin pavers and slabs.

There are different options for the removal of the packages with products out of the line according to the requirements of each project:

- Roller track conveyor
- Slat conveyor
- Railway wagon



TECHNICAL DATA

Size of production pallets:
(1200-1400)x (550-900) mm.

Useful working area:
(1120-1300) x (510-850)mm.

Height of the products:
From 30 to 300 mm (optional 400 mm).

Cycle time: 10 -14 seconds.

Average production of 20 x 20 x 40 cm (8")
blocks per hour: 1700 -2800 pcs.

Average production of 20 x 15 x 40 cm (6")
blocks per hour: 1800 -3900 pcs.

Average production of paving stone blocks
(single layer) per hour: 135 -215 m².

Minimum area for the plant (for equipment
and curing chambers): 1.500 m².

VIBRATION:

One vibrating table.
Greased in permanent oil bath (mini-
mum maintenance).

Maximum strength: 98 kN.

Power: 30 kW.

HYDRAULIC GROUP:

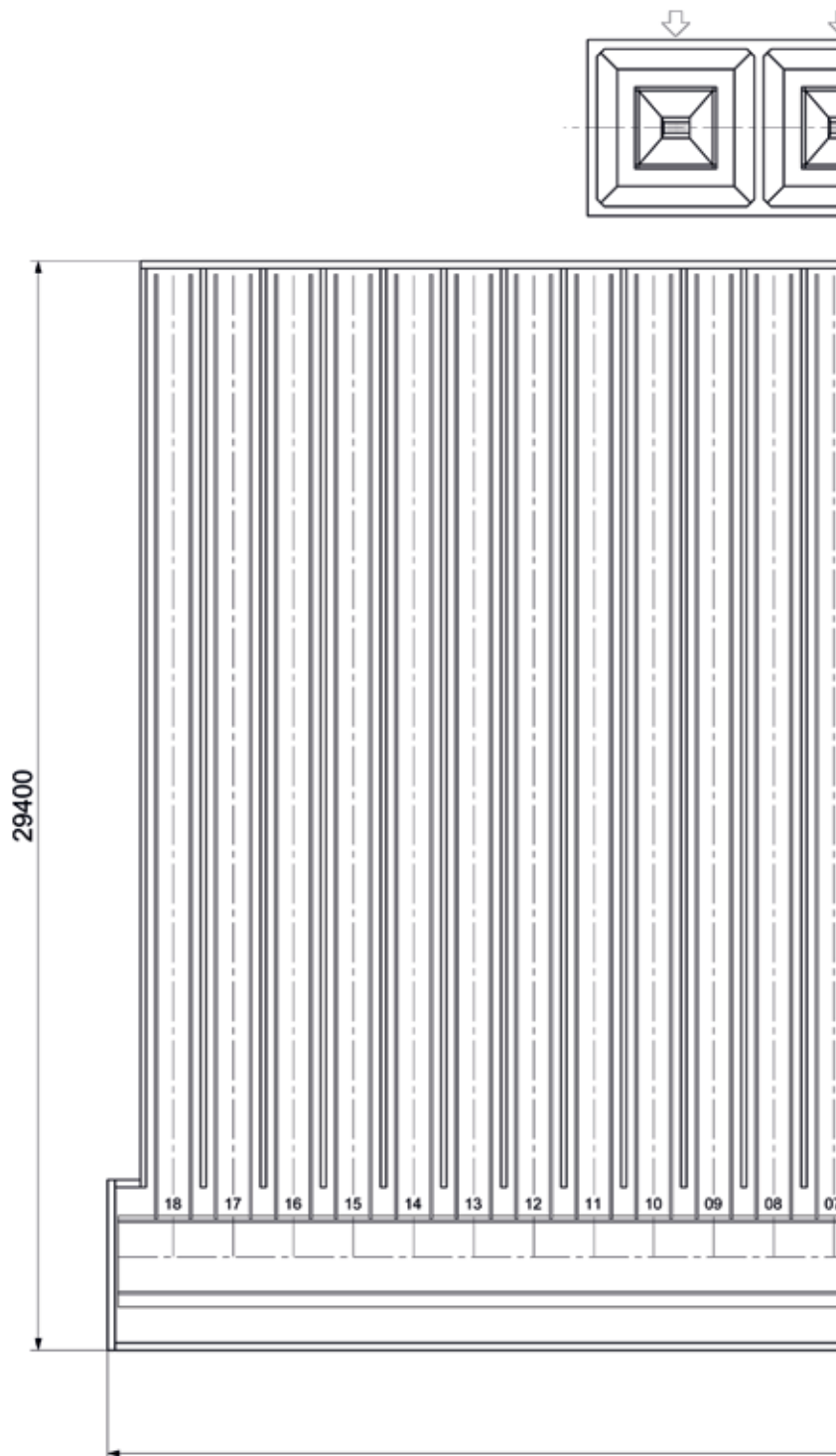
Cooling by air.

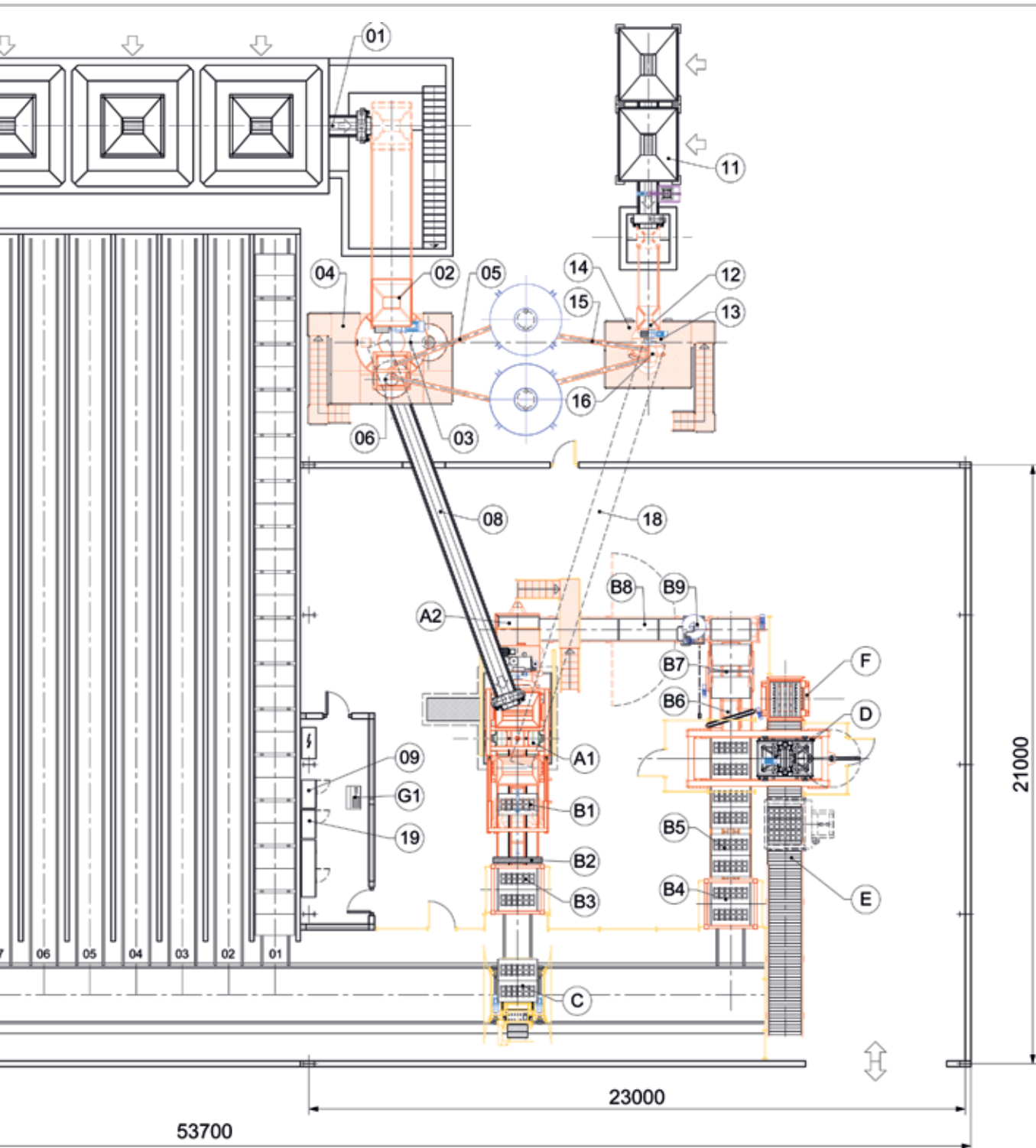
Power: 22 kW.

CUSTOMIZED SOFTWARE PROGRAM:

- Touch screen to allow an easy and intuitive management of the program.
- Provides all kind of information about the work accomplished, maintenance, data of management (output, consumption of materials, incident notices...).
- Online support service, allowing remote access to the program in the event of dire incidents if required.

PLANT LAYOUT





Ref. A1 Vibro-compressing press model Novabloc.
 Ref. A2 Magazine injector of pallets.
 Ref. B1 Conveyor of pallets from press to elevator.
 Ref. B2 B2 Cleaning brush.
 Ref. B3 Elevator of 10 levels for 2 pallets each.
 Ref. B4 Lowerator of 10 levels for 2 pallets each.
 Ref. B5 Conveyor of pallets (for 2).
 Ref. B6 Brush to clean pallets.
 Ref. B7 Pallets turning device.
 Ref. B8 Injector of pallets.
 Ref. B9 Lubricator of pallets.
 Ref. C Finger car.

Ref. D Automatic cuber.
 Ref. E Rollers track.
 Ref. F Magazine of pallets.
 Ref. G Control panel.
 Ref. 1 Dosing group.
 Ref. 2 Complete skip hoist.
 Ref. 3 Mixer.
 Ref. 4 Platform and holding frame.
 Ref. 5 Screw conveyor for cement.
 Ref. 6 Cement weighting scale.
 Ref. 7 Water dosing.
 Ref. 8 Elevating belt for concrete.

Ref. 9 Control panel.
 Ref. 10 Silos for cement.
 Ref. 11 Dosing group for 2nd layer.
 Ref. 12 Complete skip hoist for 2nd layer.
 Ref. 13 Mixer for 2nd layer.
 Ref. 14 Platform and holding frame for 2nd layer.
 Ref. 15 Screw conveyor for cement.
 Ref. 16 Cement weighting scale for 2nd layer.
 Ref. 17 Water dosing for 2nd layer.
 Ref. 18 Elevating belt for concrete of 2nd layer.
 Ref. 19 Control panel.



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