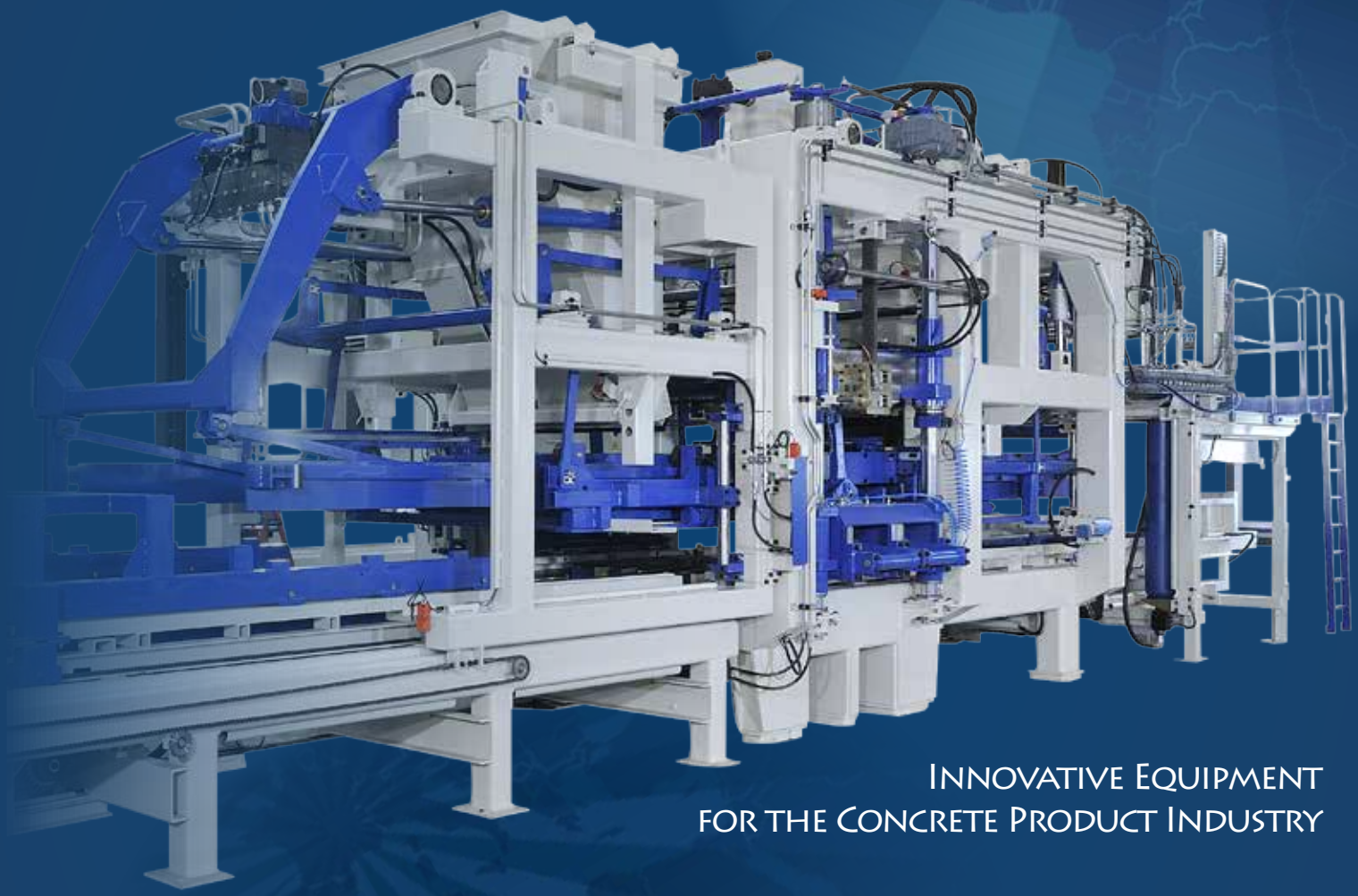
QUADRA

Manufacturer of Equipment for the Concrete Industry



Innovative Equipment for the Concrete Product Industry

www.quadra-concrete.com

FRENCH MANUFACTURER

QUADRA : CLEAR AND ACCURATE VIEW OF YOUR CONCRETE PRODUCT MANUFACTURING PLANT

Committed to serving the concrete industry, Quadra is a leading equipment manufacturer recognised for its high-performance plants and innovative solutions designed for the concrete precast industry.

Experts in automated process and utilizing a patented vibration system, Quadra designs and manufactures turn-key plants producing a wide range of concrete products (blocks, kerbstones, paving stones, slabs etc...).

- **All design is carried out in-house utilizing multiple engineers all with distinct expertise** (mechanical, electrical, automation, robotic, hydraulic and data processing design)
  Quadra designs your equipment based on your exact requirements and specifications.
  - The comprehensive study of your project leads to the most efficient solution and recommendation of equipment
  - The design is based on the entire range of equipment and technical services needed
  - Existing equipment and operations can be reviewed by Quadra's experienced engineers to determine the best solutions for optimizing the electrical and hydraulic equipment, increasing automation and improving vibration

- **Experienced technicians are readily available ensuring excellent customer service and technical support**
  Quick and efficient customer service : remote maintenance, hotline support, assistance subscriptions.

  ***Enhanced* Customer Service** using a collaborative platform > access to technical documents, production management in real-time, online spare parts catalogue & quote requests, customer service contact available (24/7).

  On-site technicians assistance for training, technical diagnostics, production analysis, troubleshootings.

All equipment is assembled, erected and wired in our facility. We perform extensive machine testing, including adjustments and running in manual and automatic mode prior to shipment.

Innovation
Quality
Satisfaction
Performance
Expertise
Safety

Innovation Policy

Quadra is committed with their policy to continually invest, ensuring innovation and implementation of new technology to optimize production and machine efficiency on all Quadra equipment.

Project Review & Design

Manufacturing

Assembling & Testing

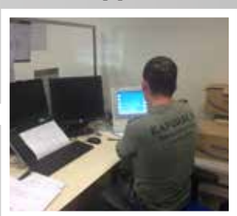
Shipping

Installation

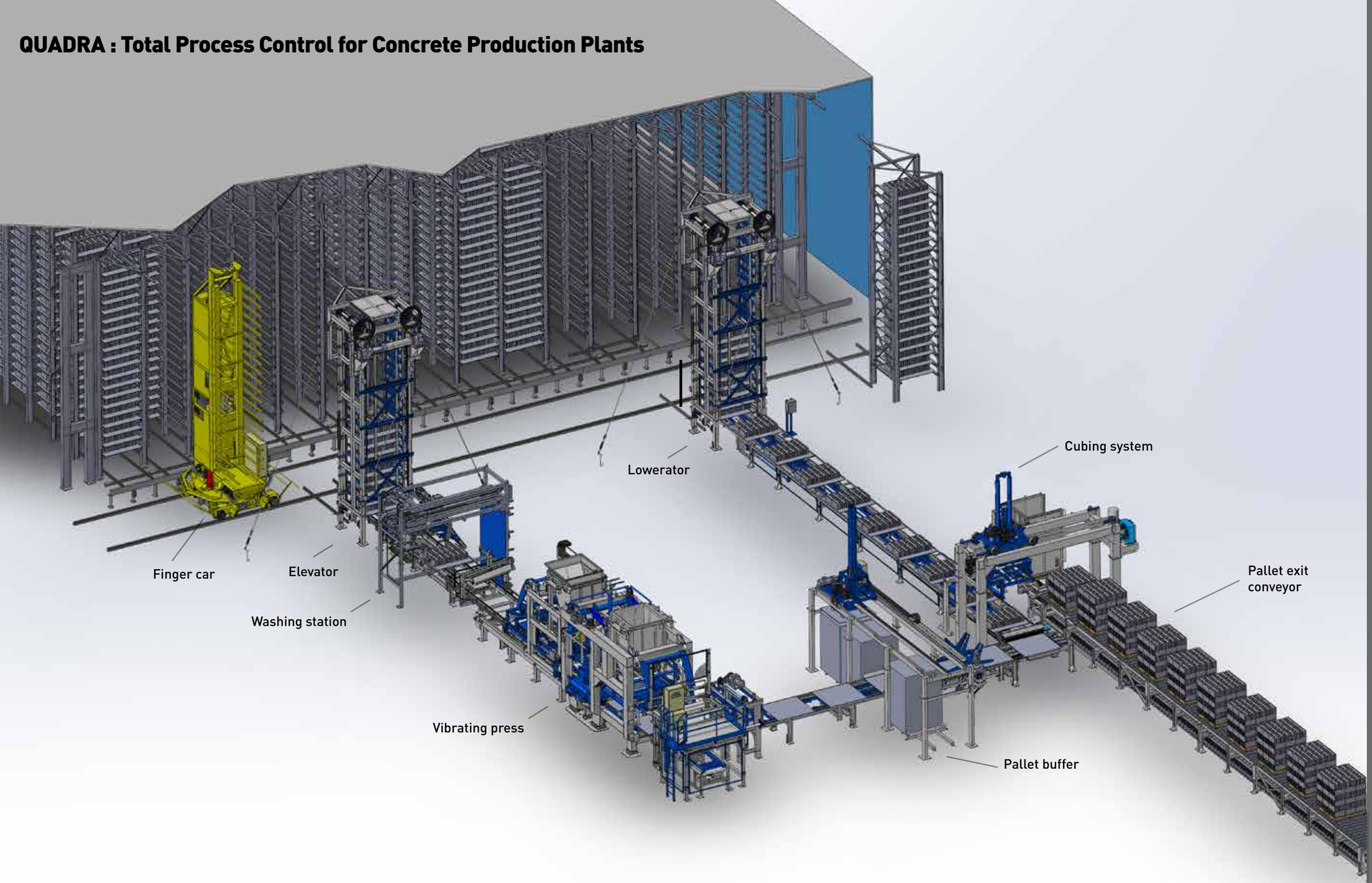
Start-up

Training

Support



QUADRA : Total Process Control for Concrete Production Plants



Complete line of equipment :

- Concrete products machines
- Product transfer and packaging systems
- Auxiliary equipment
- Grinding machines
- Batching and mixing plants

Turn-key plants

Standard or customized plants

Functional and rational design

PRODUCTION DATA

Pallet size : 1 000 x 1 000 mm

Products	Dimension (cm)	Products Nb/cycle	Cycle time (s)	Production 100% / 8h (units)	Production sqm
QUADRA 5E	**Production boards : 1 200 x 650 mm**			**Production area : 1 120 x 620 mm**	
Blocks 2 cavity	20 x 20 x 50	5	18	8 000	
Blocks 2 cavity	15 x 20 x 50	7	18	11 200	
Pavers one layer	10 x 20 x 6	25	17	42 353	847 m²
Pavers two layers	10 x 20 x 6	25	20	36 000	720 m²
Kerbstones T2 one layer	15 x 25 x 100	2	22	2 618	
QUADRA 5F	**Production boards : 1 200 x 650 mm**			**Production area : 1 120 x 620 mm**	
Blocks 2 cavity	20 x 20 x 50	5	15	9 600	
Blocks 2 cavity	15 x 20 x 50	7	15	13 440	
Pavers one layer	10 x 20 x 6	25	15	48 000	960 m²
Pavers two layers	10 x 20 x 6	25	18	40 000	800 m²
Kerbstones T2 one layer	15 x 25 x 100	2	20	4 320	
QUADRA 5 / QUADRA 5HP	**Production boards : 1 200 x 650 mm**			**Production area : 1 120 x 620 mm**	
Block 2 cavity	20 x 20 x 50	5	12.5 / 10	11 520 / 14 400	
Block 2 cavity	15 x 20 x 50	7	12.5 / 10	16 128 / 20 160	
Pavers one layer	10 x 20 x 6	25	12 / 9	60 000 / 80 000	1 200 m² / 1 600 m²
Pavers two layers	10 x 20 x 6	25	15 / 12	48 000 / 60 000	960 m² / 1 200m²
Kerbstones T2 one layer	15 x 25 x 100	3	18 / 16	4 800 / 5 400	
QUADRA 10HP	**Production boards : 1 200 x 1 150 mm**			**Production area : 1 120 x 1 100 mm**	
Blocks 2 cavity	20 x 20 x 50	10	12.5	23 040	
Blocks 2 cavity	15 x 20 x 50	14	12.5	32 256	
Pavers one layer	10 x 20 x 6	50	12	120 000	2 400 m²
Pavers two layers	10 x 20 x 6	50	15	96 000	1 920 m²
Kerbstones T2 one layer	15 x 25 x 100	5	20	7 200	

Rates may vary based on aggregates and mix designs (±10%)

Production units designed for manufacturing a large range of concrete products

Pallet size : 1 200 x 800 or 1 200 x 1 200 mm

PRODUCTION DATA

Products	Dimension (cm)	Products Nb/cycle	Cycle time (s)	Production 100% / 8h	Production sqm
QUADRA 6F	**Production boards : 1 400 x 700 mm**			**Production area : 1 320 x 650 mm**	
Blocks 2 cavity	20 x 20 x 40	9	15	17 280	
Blocks 2 cavity	15 x 20 x 40	12	15	23 040	
Pavers one layer	10 x 20 x 6	36	15	69 120	1 382 m²
Pavers two layers	10 x 20 x 6	36	18	57 600	1 152 m²
Kerbstones T2 one layer	15 x 25 x 100	3	20	4 320	
QUADRA 6 / QUADRA 6HP	**Production boards : 1 400 x 700 mm**			**Production area : 1 320 x 650 mm**	
Blocks 2 cavity	20 x 20 x 40	9	12.5 / 10	20 736 / 25 920	
Blocks 2 cavity	15 x 20 x 40	12	13 / 10	26 585 / 34 560	
Pavers one layer	10 x 20 x 6	36	12 / 9	86 400 / 115 200	1 728 m² / 2 304 m²
Pavers two layers	10 x 20 x 6	36	15 / 12	69 120 / 86 400	1 382 m² / 1 728 m²
Kerbstones T2 one layer	15 x 25 x 100	3	18 / 16	4 800 / 5 400	
QUADRA 9 / QUADRA 9HP	**Production boards : 1 400 x 900 /1 400 x 1 100 mm**			**Production area : 1 320 x 850 /1 320 x 1 050 mm**	
Blocks 2 cavity	20 x 20 x 40	12	13 / 12	26 585 / 28 800	
Blocks 2 cavity	15 x 20 x 40	14	14 / 13	28 800 / 31 015	
Pavers one layer	10 x 20 x 6	54	12 / 10	129 600 / 155 520	2 592 m² / 3 110 m²
Pavers two layers	10 x 20 x 6	54	15 / 13	103 680 / 119 631	2 074 m² / 2 393 m²
Kerbstones T2 one layer	15 x 25 x 100	5	20 / 18	7 200 / 8 000	
QUADRA 12HP	**Production boards : 1 400 x 1 300 mm**			**Production area : 1 320 x 1 250 mm**	
Blocks 2 cavity	20 x 20 x 40	18	13	39 877	
Blocks 2 cavity	15 x 20 x 40	24	13	53 169	
Pavers one layer	10 x 20 x 6	66	12	158 400	3 168 m²
Pavers two layers	10 x 20 x 6	66	15	126 720	2 534 m²
Kerbstones T2 one layer	15 x 25 x 100	6	18	9 600	

Rates may vary based on aggregates and mix designs (±10%)

Pavers, kerbstones, blocks, slabs, and any garden & landscaping products

VIBRATING PRESS : Key Technical Features

MACHINE PLACEMENT : MANY ADVANTAGES

- Machine is placed on flexible anti-vibration rubber legs
- Eliminates expenses for special machine pit or additional civil engineering
- Minimizes transmission of vibration to the floor and reduces noise
- Minimizes dynamic stress to the machine

FUNCTIONAL ARCHITECTURE

- One-piece heavy welded frame with reinforced base for heavy loads
- Elevated frame for easy access and cleaning operation
- Lower cost, easy to maintain

CONTROLLED AND PRECISE MACHINE MOVEMENTS

- Reliability from ability to control speed of all movements of the machine
- Easy and continuous control of all machine movements
- Optimized sequential cycle

VIBRATING SYSTEM : APPLY EXPERTISE

- One-piece vibrating table assuring consistent vibration characteristics across the table
- Electronically controlled servo-motors located to the side of the machine
- Location allows better protection of motors and greater access

QUICK MOLD CHANGE
(less than 10 minutes)

- Automatic quick-change device for changing the mold frame and tamper head
- Quick-release clamps for the mold and the tamper head
- Automatic feedbox height adjustment for different height molds
- Option for manual movement from the control console
- Storage of settings for each mold for automatic adjustments

MACHINE HOPPER AND FEEDBOX

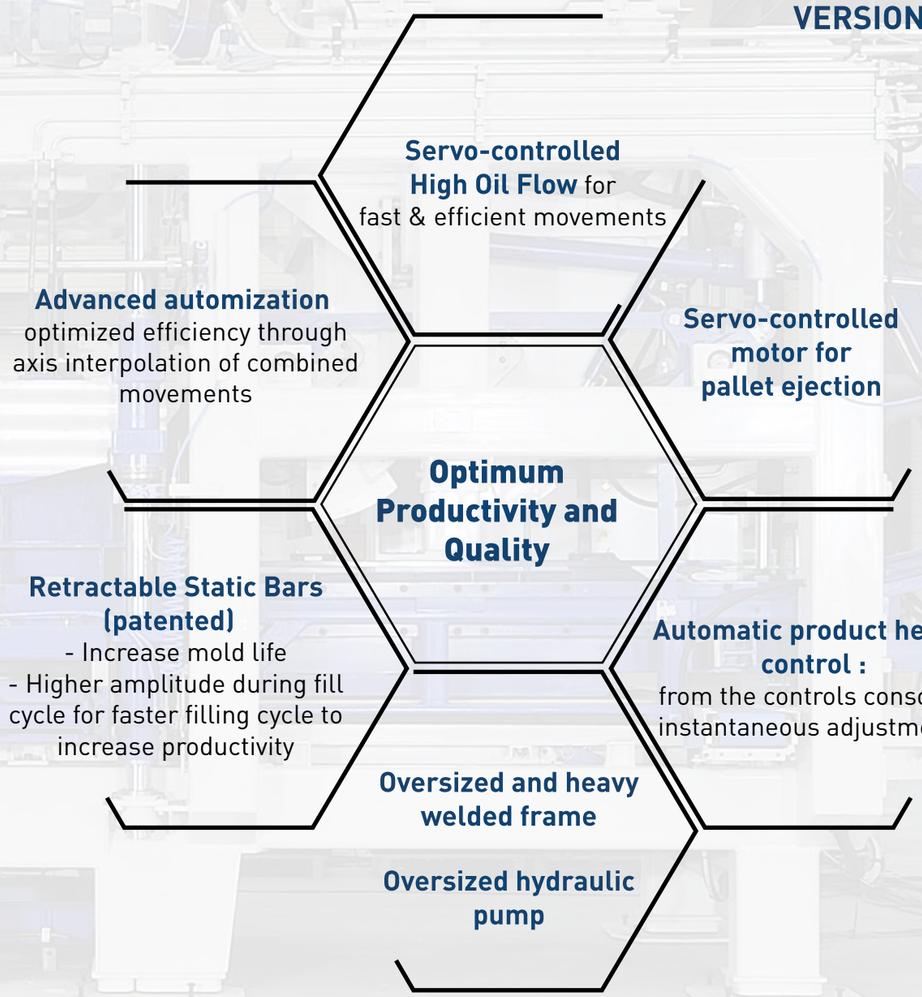
- Amount of material in hopper is constantly monitored
- Hopper held in an anti-vibration mechanism
- Laser used to accurately read the amount of material in the feedbox
- Shaking agitator grid accelerates mold filling
- Option to use face mix

INTUITIVE CONTROLS CONSOLE

- Touch screen terminal for adjustments and a global view of all production parameters
- Clear and comprehensive instrumentation
- Overview of all functions of the machine
- Localization and display of any errors
- Production management and product traceability features

PATENTED TECHNOLOGY

HIGH PERFORMANCE VERSION



Elevated press frame based on anti-vibration suspension

Vibration with modular strength and adjustable frequency patented

Retractable table reference device patented

Quick tamperhead clamping

Quick mold clamping

Quick mold change

Clear, complete and intuitive instrumentation of the operating console

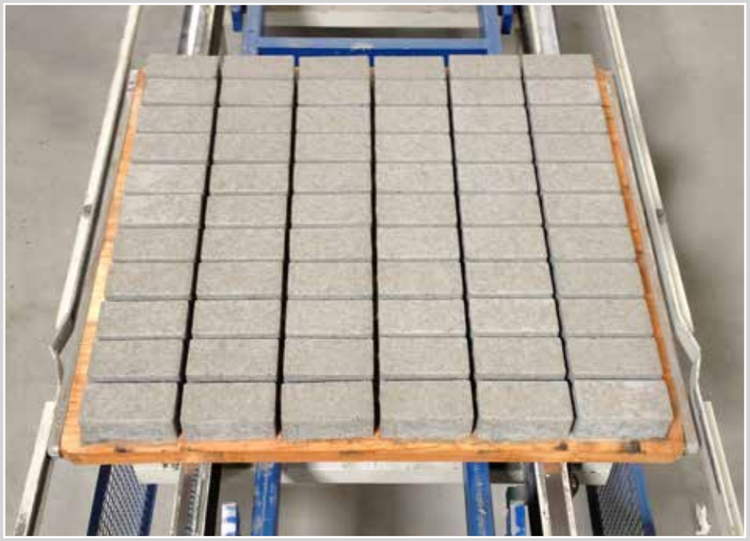
HANDLING SYSTEM

Integrated Safety & **Consistent** speed
Continuous operation and **unlimited versatility**
Versatile equipment
Easy to parameter

Finger car

- Laser position detection
- Automation to ensure smooth and efficient operation
- Rigid and balanced frame
- Centering tracks

Pallets transport



Cubing system

- Durable and versatile clamp suitable for all types of concrete products
- Precise control of movements and continuous operation assuring consistent production speed

Robotic cubing system

Transport of finished cube

COMPLEMENTARY EQUIPMENT

Additional equipment available for increased
performance, productivity, and competitiviteness.

FULLY AUTOMATED MOLD CHANGE

Efficient mold change system reducing labour and improving safety : flexible and versatile production

PATENTED SYSTEM

- Automated machine settings : machine settings are recorded for each mold. Tamper head, machine and feedbox are automatically adjusted for the new mold
- Production on the machine is only interrupted for 5 minutes : extreme versatility & increased productivity
- No manual handling required : providing a safer working environment
- Automatic control from the control room : the operator watchs and oversees the operation from the control cab. No handling operations. The operator remains in the safety area and does not need to be around the machine at any time.
- Automatic placement of the mold in the washing station: no fork-lift needed

WASHING STATION

Enhances the natural surface of the product

High pressure washing.
Can be adapted for any size or type of products.

BLOCK TURNOVER

Complete range of sizes

Integrated turnover device
between the lowerator and the cubing line.

QUALITY CONTROL STATION

Product height and quality checks

A control station raises one pallet for checking height accuracy and quality, then returns it to the line never interrupting production.

ARRANGING TABLE

Versatile cubing solution

Products are selected and placed on arranging table according to the size of the pallet and the type of product to be palletized.

PROTECTION BETWEEN TIERS

Automatic spacer placement

Spacers are automatically placed between product tiers to protect quality of the products during packaging and shipment.

PALLETS BUFFER

Increased efficiency

For capacity from 10 to 2000 pallets, the pallet buffer ensures consistent operation and efficient rate within the production line.

EQUIPMENT FOR INSULATED BLOCKS

Polystyrene insertion device

Mounted on one side of the press in a secure and safe area.
This device requires only one operator.

French manufacturer operating worldwide

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