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## **BATCH PRE-EXPANDERS**

SUITABLE FOR BLOCK AND SHAPE MOULDING MACHINES, THEY EXPAND RAW MATERIAL IN BATCHES WITH MAXIMUM EFFICIENCY AND UNIFORMITY ACHIEVING DENSITIES, IN FIRST EXPANSION, BETWEEN 100 AND 12 g/l.

### **ADVANTAGES**

#### MANUFACTURING OF EXCELLENCE

- In-house start-up and test •
- Uniform distribution of steam guaranteed by "Wedge wire" working surfaces made in stainless steel
- Electrical and mechanical safety systems for overpressure prevention
- Fast machine cleaning achieved through: wide inspection doors for fluidized bed dryer access - fully opening inspection doors leading to the
- expansion chamber - bottom working surface divided in sections
- Solid and compact structure, built to guarantee maximum resistance, stability and safety for operators
- Designed to facilitate access to all components .

#### SUPERVISION AND CONTROL

- User friendly interface with synoptic overview of process • status displayed over the machine's graphic layout
- Real time monitoring of pressure values .
- Process indicators displayed over the machine's graphic layout for a rapid resolution of failures / stops .
- Double electronic control of temperature and pressure values (inside steam plant and expansion chamber)
- Updated machine library containing calendar of events, diagnostic messages and previous working cycles with relevant process data and graphs

#### CONNECTIVITY

- Possibility of connection to local network, interface with enterprise management system and centralized control of any devices / plant connected to the machine
- Download and export of process data in the main . commercial formats
- Remote control and monitoring
- Remote assistance software

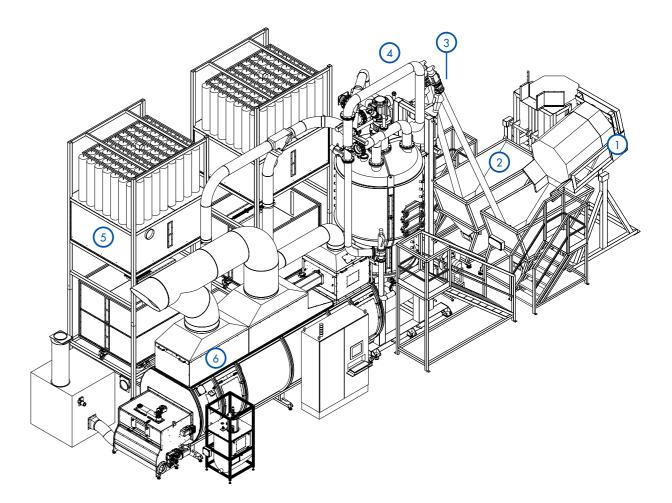
## **OUTSTANDING PERFORMANCE**

- High efficiency process with low residual moisture . content
- Wide range of densities achievable: from 100 g/l up to 8 g/l by second expansion
- Homogeneous expansion without grinds: expansion chamber designed to guarantee a uniform distribution of steam and raw material
- **Reduced cycle time:** loading-unloading groups designed to guarantee fast material flows
- Full wipe down in less than 15 min
- Constant quality over time thanks to the accurate automatic dosing system of raw material, to process parameters control and to automatic density correction system

#### FLEXIBILITY

- Wide range of configurations of recipes and process parameters (pressure, temperature, mixer speed, cycle time, etc.)
- Fully automatic working cycle with possibility of real time variation of parameters
- Customized library for storage and quick upload of recipes and relevant process data concerning previous working cycles
- Supervision system with level of access to be configurated for different users





## **COMPONENTS UPON REQUEST**

- 1. RAW MATERIAL AUTOMATIC FEEDING SYSTEMS
- 2. DOUBLE FEEDING SYSTEM
- 3. AUTOMATIC CLEANING OF WEIGHING UNIT

Model	hei	pander ght m)	Expa char dimer	nber		P		on (kg/h nsity	Consumptions				
mouor	Std	with 2° exp.on	Ø (mm)	Vol (m³)	12 g/l	15 g/l	20 g/l	25 g/l	30 g/l	8 <b>(*)</b> g/l	Steam (kg/h)	Air (m³/min)	Installed power (kW)
PE910D	4.800	6.000	950	1	420	510	650	680	620	280	100/180	0,2 - 0,4	22
PE915D	5.500	6.000	1.050	1,5	600	720	980	1.100	760	400	150/200	0,3 - 0,5	25
PE925D	5.500	6.400	1.300	2,5	900	1.150	1.600	1.800	1.200	680	200/300	0,4 - 0,6	30
PE940D	5.950	6.500	1.600	4,2	1.500	2.000	2.800	3.000	2.200	1.200	300/400	0,5 - 0,8	38
PE960D	7.000	7.000	2.000 1.600	6,2	2.000	2.500	3.400	4.200	3.000	1.800	400/500	0,6 - 1,0	48

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(\*) Only with second expansion

#### 4. DEVICE FOR COLORED EPS PRODUCTION SECOND EXPANSION UNIT 6. PENTANE GAS RECOVERY SYSTEM

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