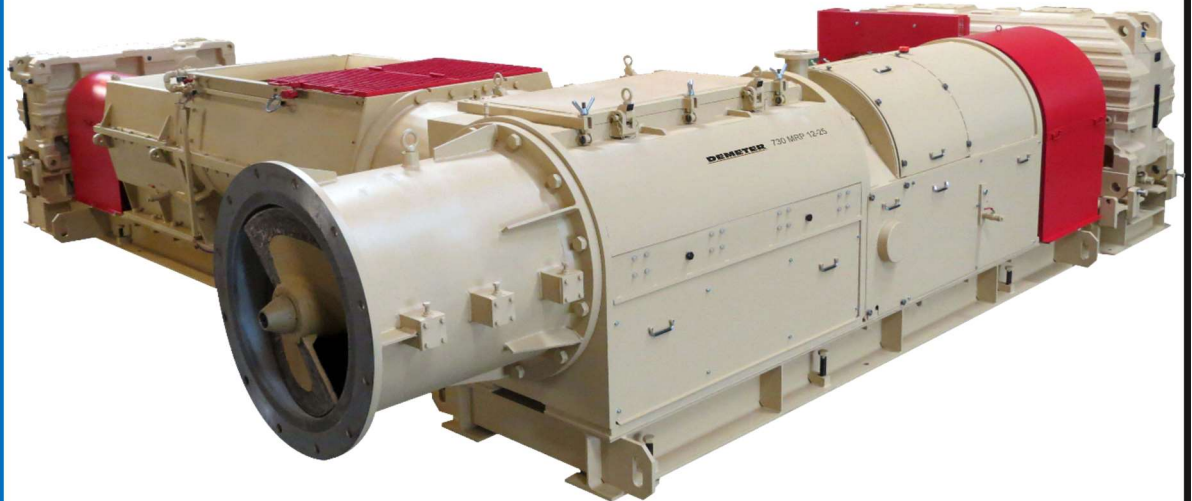


Extrusion Shaping
DEMETER EXTRUSION UNIT

PELERIN
Preparation et Fabrication



THE DE-AIRING EXTRUSION UNIT ENSURES THE MIXTURE AND THE EXTRUSION OF THE CLAY BODY.

It is made of two machines :

- A horizontal shaft mixer, ensuring a fine mixing of the paste (via 2 series of paddles working in opposition) and its introduction into the mixer via 2 exhaust propellers.
- **A mixer, equipped with a vacuum chamber to deaerate the paste, and one screw to extrude the paste through a removable extrusion die.**

Technical Characteristics - Example : Extrusion Unit 600ER-MRP10.24

Entrance propeller's diameter	680 mm
Exit propeller's diameter	600 mm
Maximum Height	1200 mm
Maximum outflow	56 T/h
Installed capacity	110-250 kW
Total weight without motor	30 255 kg

Technical Specification Mixer

- Mechanically welded steel trough-shaped tank with 2 shafts equipped with paddle-carrier.
- 2 corned square counter rotating shafts, fitted with double paddle-carriers, half-shell type, with welded paddles (without assembly bolts).
- **2 reverse-pitch exit propellers made of mechanically welded steel, protected in periphery by tungsten carbide reloading.**
- Opening propulsion body of the mixer, made of mechanically welded steel, supporting the 2 exit propellers. The mixer and its gear unit are fastened and lined on a one-piece frame.
- **Moistening device made of a humidifying ramp. Drive with pulleys and V-belts.**

Technical Specification Extruder

- **Shaft supporting the propellers fitted with 5 chromium alloy-cast iron propellers, protected in periphery by tungsten carbide reloading.**
- Cylindrical mechanically welded steel entrance tank fitted with 3 hindering devices.
- **An exit tapered nozzle fitted with 6 hindering devices and anti-wear coating.**
- A counter-structure supporting the frame of the extrusion die and the die itself.
- **Hardness tester controlling the extrusion pressure.**
- Drive by pulleys and V-belts.

Options

- ERN range with parallel shaft reducers – CTR Type (case-hardened gearing, treated, grounded)
- **Two parts opening exit nozzle, nozzles and cylindrical propellers.**
- Oil vacuum unit.

Range

Type	Exit propeller's diameter (mm)	Flow rate (m3/h) Wet tons hard / usual paste	Installed power (kW)	Total weight (kg)
300EM – MRP 5.15	300	3 - 5	75 - 185	3 450
450ER – MMP 8.24	450	17 - 26	45 - 110	16 000
500ER – MMP 9.24	500	20 - 30	55 - 165	20 000
550ER – MRP10.24	550	30 - 42	90 - 165	24 800
600ER – MRP10.24	600	40 - 56	110 - 250	30 255
600ER – MRP12.25	600	40 - 56	110 - 250	31 755
650ER – MRP12.25	650	45 - 70	110 - 355	42 070
730ER – MRP12.25	730	70 - 100	132 - 400	36 000