

OIL DIVISION

CONTINUOUS MODULAR SYSTEM

MODEL 2/M

for olive oil extraction



GRUPPO

PIERALISI



MODEL 2/M WITH 2-OVERLAPPING STAGE KNEADER

The continuous modular system for olive oil extraction.

A lift conveyor with acid-proof rubber belt (1) transports olives from the hopper to the washing machine. During the final part of the run, leaves are removed from the olives by a centrifugal fan with **special profile self-cleaning paddles** (2). In the hydro-pneumatic washing machine (3) a bubbling air jet avoids olives coming in contact with metal and being crushed: **an exclusive feature of PIERALISI washing machines**. After passing through a vibrating drip grate, the olives are gathered in a hopper (4) and from here - by means of a screw elevator (5) - are fed into the crusher (6) where a



SEPARATION UNIT

hammer with heavy metal plates and a grate provide for the perfect breaking of the oil pockets and the carefully gauged crushing of the stones. Plates and grate are interchangeable.

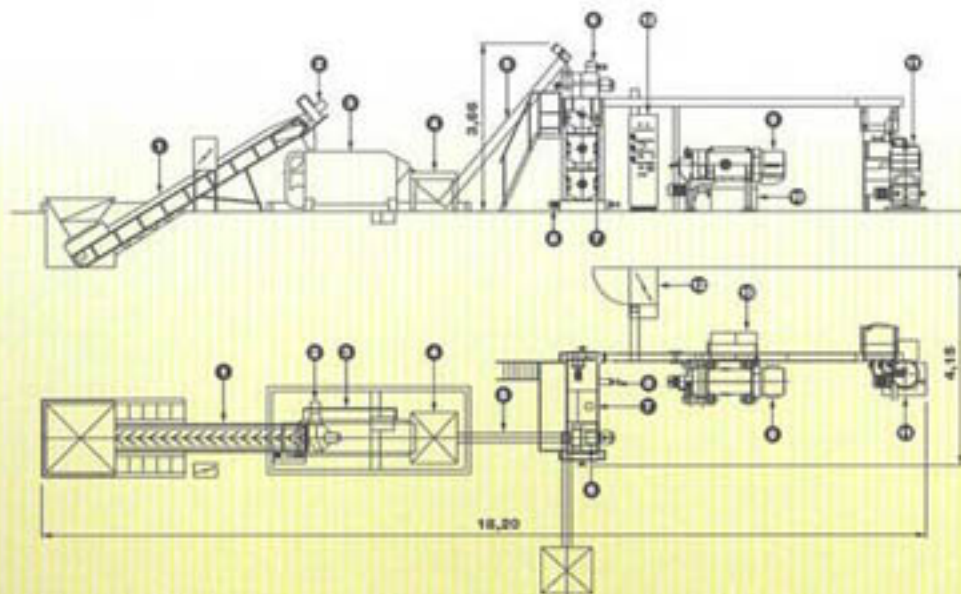
The pulp obtained falls into the 2-overlapping stage (capacity 0.7 ton each) kneader (7): homogeneous heating and helicoidal plates ensure perfect processing. The heating is obtained with controlled temperature water circulating in the hollow of the kneader: **max. surface and max. exchange capacity (5,700 sq cm/100 kg of olives); possibility of changing temperature in the different stages**.

The pulp is dropped from one stage to the other through airtight hatches that can be opened from the outside.

A single-screw pump (8), which **ensures constant feeding and absence of emulsion**, conveys the pulp to the centrifugal extractor (9), where the three phases - oil, husks and waste water - are separated. The oil, after undergoing preliminary straining in a vibro-filter (10), is pumped to the separator (11) for elimination of the still-existing solid particles and water.

A heating plant with waste husk or Diesel oil stove produces the hot water needed for heating the kneader, **controlling automatically and continuously the different temperatures**.

A control panel (12), with safety and interlocking equipment, completes the system.



TYPICAL INSTALLATION LAYOUT: Dimensions can vary according to customer space requirements.

NOTES

- All the parts in contact with the pulp are made of stainless steel.
- The kneader stages are made of stainless steel.
- The centrifugal extractor and separator drums are made of hardened and tempered stainless steel with high mechanical resistance.
- The centrifugal extractor screw is protected by tungsten carbide facing applied by the continuous process.
- All continuous modular plants can also operate on the two-phase system.



LEAF REMOVING AND WASHING UNIT

GRUPPO
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