

1.5TPH Olive Pomace Pellet Plant Complete Product Guide & Manual

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1.5 t/h Capacity

No Crushing/Drying Needed

Ring Die Pellet Mill

3 Machines

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What This Line Is

This is a 1.5TPH olive pomace pellet plant, built to recover the by-product of olive oil pressing — olive pomace (skin, pulp and pit fragments) — and turn it into fuel pellets. After full oil extraction, olive pomace is already powdery and carries only about 12% moisture, so this is the simplest pellet-line configuration in the book: no crusher, no dryer. One ring die pellet mill, one cooler, one packer — three machines do the whole job.

Why It Gets Specified

Four reasons. Compact: one pellet mill, small footprint, low investment. Easy to run and maintain: the flow is simple, operation is steady, and the failure rate is low. Low energy, high efficiency: low noise, low power draw, continuous high-output production. Technical backing: full installation service and reliable after-sales support.

How the 1.5TPH Olive Pomace Pellet Plant Works

Three stages:

1

Pelleting

Olive pomace at ~12% moisture goes straight into the MZLH508 ring die pellet mill; rollers and die press it into pellets under high pressure and cut it to length.

2

Cooling

Hot, moist pellets enter the counterflow cooler; cold air flows counter to the pellets, drawing heat and moisture without direct cold-air contact that would crack the surface.

3

Packing

Cooled pellets move to the automatic packer; PLC control and high-accuracy meters handle weighing and bag sealing.

Two things to remember: olive pomace arrives at ~12% moisture — right in the pelleting window, but keep it dry in storage; once moisture climbs past the limit, the forming rate falls apart. Store finished pellets in a dry tank or silo.

Equipment Configuration

1. MZLH508 ring die pellet machine

Model	Capacity	Main motor	Feeder	Die ID	Die speed	Roller OD	Rollers	Roller temp	Pellet size
MZLH508	1.5 t/h	90 kW	2.2 kW	508 mm	150 rpm	190 mm	2	≤85°C	6/8/10 mm

2. SKLN1.5 pellet cooler

Model	Capacity	Power	Volume	Cooling time	Air-lock
SKLN1.5	3 t/h	0.75 kW	1.5 m ³	≥6–10 min	1.1 kW

3. WDSC-50 pellet weighing and packing machine

Model	Packing rate	Power	Dimensions
WDSC-50	3–4 bags/min (5–50 kg/bag)	2.2 kW	2.0×0.8×2.6 m

Where It Gets Used

Two duty classes. Olive oil mills and pressing plants: turning the pressing by-product — pomace and pits — from waste into fuel. Biomass fuel plants: processing olive pomace into high-calorific pellets for industrial boilers and domestic heating stoves.

Installation and Commissioning

1. **Shop layout** — arrange the three machines per the process flow (pellet → cool → pack); confirm section conveyors.
2. **Positioning** — set and fix each machine per the drawing; level and isolate the pellet mill base.
3. **Electrical and power** — wire each motor and confirm phase sequence; check oil level in the mill's gear transmission.
4. **Linked no-load run** — run the whole line empty; watch mill operation, vibration and noise.
5. **Load run** — feed olive pomace directly into the mill; check forming rate, cooling and packing accuracy; ramp to rated capacity.

⚠ Lift by the designated points only — never by motors or piping; keep personnel clear of the lift zone.

⚠ During operation, stay clear of all feed and discharge openings; stop and lock out before clearing or servicing.

⚠ The pellet mill runs hot — never touch it in operation; stop immediately on abnormal vibration, noise or overheating.

Keep olive pomace dry — moisture above 12% needs sun-drying or pre-drying before the line. Have the manufacturer's technician on site for the first load run.

Running and Maintenance

The MZLH508 ring die pellet mill is the core and the only main machine: the 508 mm die and rollers are the main wear items — check die-hole wear and roller clearance, and replace or flip at the wear limit. Roller temperature should stay $\leq 85^{\circ}\text{C}$. The cooler: check counterflow air volume and the rotating mechanism. The packer: sealing and weighing accuracy.

With no crushing and no drying, the maintenance load is far smaller than a full pellet line. The daily round: mill bearing temperature, cooler airflow and packer weighing accuracy. The one variable that matters most is the olive pomace moisture — test every incoming batch; if it's above 12%, sun-dry or pre-dry it before feeding.

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