

2TPH Olive Pomace Pellet Plant Complete Product Guide & Manual

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2 t/h Capacity

Twin Pellet Mills

Counterflow Cooling

4 Machines

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What This Line Is

This is a 2TPH olive pomace pellet plant, built to recover the by-product of olive oil pressing — olive pomace (skin, pulp and pit fragments) — and convert it into energy. The line consists of a rotary drum dryer, two ring die pellet mills running in parallel, a counterflow cooler and an automatic packer. Unlike the 1.5 TPH olive pomace line, this one doubles capacity to 2 t/h, needs a dryer to lock in moisture at 12–16%, and uses two MZLH420 mills in parallel — each rated at 1 t/h, together they deliver 2 t/h.

Why It Gets Specified

Four reasons. Sound design: compact and transport-friendly. High efficiency, low energy: twin-mill parallel configuration hits 2 t/h while keeping the overall energy draw under control. Automation and safety: the mills carry VFD feeders, overload protection, external discharge and pressurized lubrication; the packing system runs on PLC control. Temperature-gradient protection: the counterflow cooler prevents cold air from directly hitting the pellets, which would otherwise crack them.

How the 2TPH Olive Pomace Pellet Plant Works

Four stages:

1

Drying

Olive pomace pellets best at 12–16% moisture. Material enters the GX1500 rotary drum dryer and is continuously dewatered to the target range by hot-air circulation.

2

Pelleting

Dried pomace passes through a screw conditioner for even mixing, then splits to two MZLH420 ring die mills in parallel — rollers force it through the die holes and knives cut it to length.

3

Cooling

Hot pellets enter the counterflow cooler; cold air rises from the bottom against the falling pellets, drawing heat and moisture gradually.

4

Packing

Cooled pellets are lifted into the automatic weighing, filling and sealing system — 5–50 kg bags, PLC-controlled.

Two things to remember: the sweet spot for olive pomace pelleting is 12–16% moisture — too wet and pellets crack, too dry and they won't press; with twin mills, the material split has to be even — an unbalanced split means one mill runs flat out while the other idles.

Equipment Configuration**1. GX1500 rotary drum dryer**

Model	Capacity	Drum Ø	Length	Drive	Fan	Cyclone	Air-lock
GX1500	2–2.2 t/h	1.5 m	12 m	7.5 kW	18.5 kW	SKL1200	1.1 kW

2. MZLH420 ring die pellet machine ×2 units

Model	Capacity per unit	Main motor	Feeder	Die ID	Die speed	Roller OD	Rollers	Roller temp	Pellet size
MZLH420	1 t/h	132 kW	2.2 kW	420 mm	150 rpm	165 mm	2	≤85°C	6/8/10 mm

3. SKLN1.5 pellet cooler

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

4. WDCS-50 pellet packing system

Model	Packing rate	Power	Dimensions
WDCS-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 processing plants: handling large volumes of pressing by-product — pomace and pits. Biomass pellet fuel plants: turning olive pomace waste into dense, high-calorific fuel for export or direct industrial boiler and domestic stove supply.

Installation and Commissioning

1. **Shop layout** — arrange the four machines per the process flow (dry → pellet×2 → cool → pack); confirm the twin-mill material split piping and section conveyors.
2. **Positioning** — set and fix each machine per the drawing; level and isolate both pellet mill bases individually.
3. **Electrical and power** — wire each motor and confirm phase sequence; check oil level in both mills' gear transmissions.
4. **Linked no-load run** — run the whole line empty; watch twin-mill parallel operation, material split, vibration and noise.
5. **Load run** — feed dried pomace evenly to both mills; 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 dryer and pellet mills run hot — never touch them in operation; stop immediately on abnormal vibration, noise or overheating.

Keep olive pomace dry in storage. Have the manufacturer's technician on site for the first load run.

Running and Maintenance

The two MZLH420 mills are the core: the 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 pressurized lubrication system and overload protection get scheduled checks. The key to twin-mill operation is an even material split — an unbalanced split means one mill runs at full load while the other idles, wasting capacity and accelerating single-mill wear.

The rotary dryer: hot-air temperature and drum rotation — moisture control is the prerequisite for forming rate. The cooler: counterflow air volume and the rotating mechanism. The packer: sealing and weighing accuracy. Section capacities: dry 2–2.2 t/h, twin mills 2 t/h, cool 3 t/h — the mills are the bottleneck and upstream drying margin is by design. Daily round: motor temperatures, twin-mill sync, dust extraction.