

CONTROLLED INDUSTRIAL PYROLYTIC CLEANING

PyroLift pyrolytic oven is an industrial machine designed for the **cleaning**, in a completely oxygen-free environment, of **plastic extrusion components containing polymer residues**, such as extrusion heads, injection nozzles, dies, etc. The cleaning process is carried out through controlled pyrolysis, which can reach operating temperatures of up to 500°C, in a **nitrogen-inerted atmosphere**.

General Description

Overall dim	≈ 1200 mm x 1260 mm x h 3220 mm
Treatment chamber	Equipped with electric heating elements, temperature monitoring, a nitrogen inerting system, and an outlet duct for syngas and inert gas to an afterburner. Mobile loading platform, for chamber opening/closing.
Loading type	Manual loading machine
Maximum load capacity	120 kg

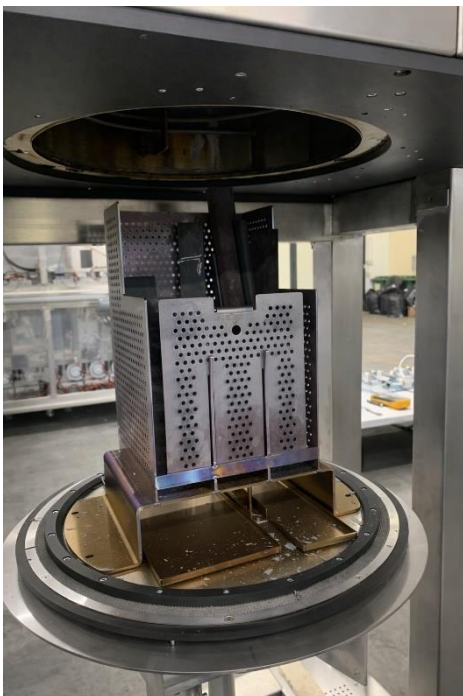
Standard European electrical specifications

Power supply	400 Vac, 3P+N+PE
Frequency	50 Hz
Power consumption	Max 30 kW/h



PyroLift

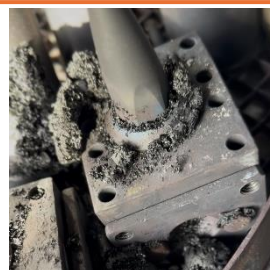
Pyrolytic Cleaning System



Loading platform with die container



DIES BEFORE PYROLYTIC CLEANING TREATMENT



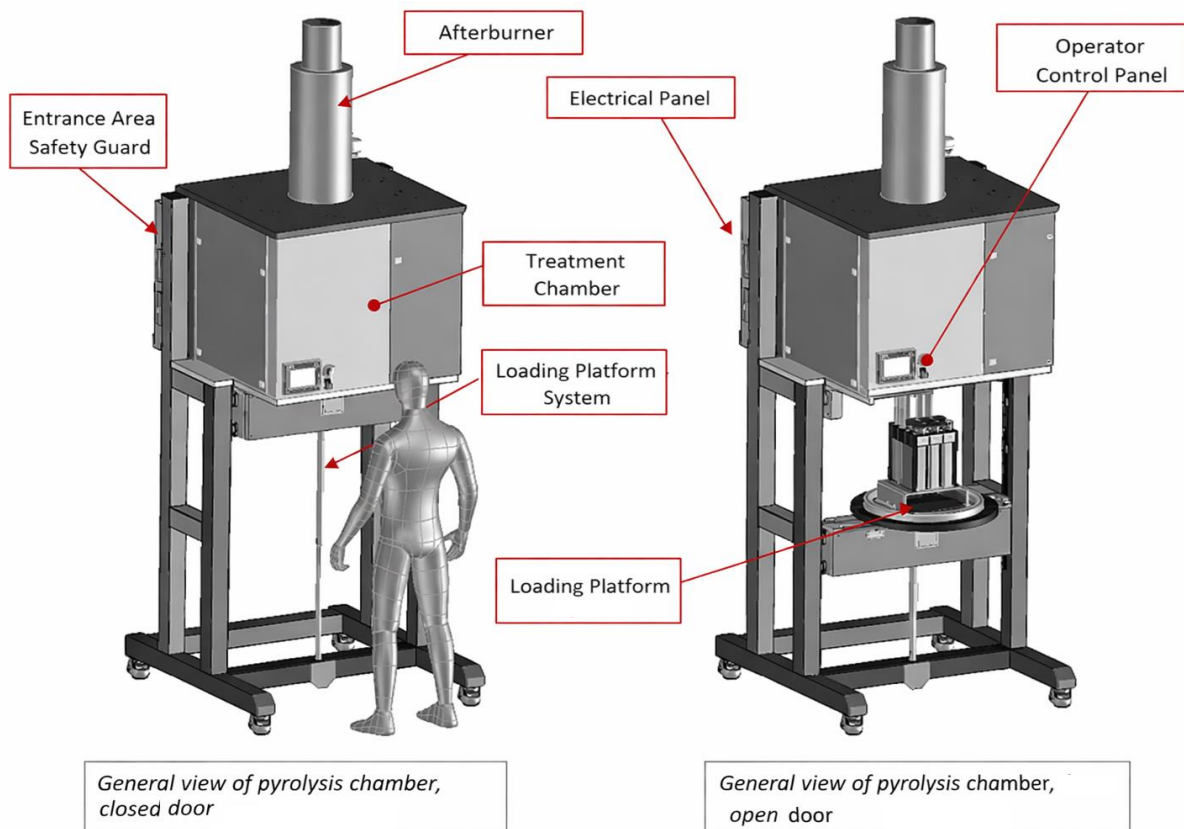
DIES AFTER TREATMENT

PyroLift is manufactured by **MIT SRL** via Degli Etruschi 10 IT-33080 San Quirino (PN).

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Pollutants treatment

To prevent the release of pollutants into the environment, the pyrolysis gases are treated by fully oxidizing carbon monoxide, tars, hydrocarbons, and any dioxins into CO_2 and water vapor. Oxidation takes place in a dedicated afterburning chamber, where a hot air blower draws fresh air from the environment and heats it up to 900°C . This generates a continuous hot and turbulent flow that reacts with the pyrolysis effluents inside the afterburning chamber. Proper treatment of all pollutants is ensured by the combination of high temperature, turbulent flow, excess oxygen (>2 times the stoichiometric ratio), and residence time within the afterburning chamber, which is at least 2.5 seconds, as recommended by regulations and scientific literature.