





01
Infrared crystal dryer will Dry&crystallized rPET Pellets

02
Injection machine will be fed the dried&crystallized rPET
Pellets and make the Preform







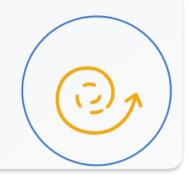
Solution: Drying rPET pellets --- Infrared Rotary Dryer

Solution: rPET Preforms --- Injection machine

Always in motion

No segregation of products with different bulk densities

②The permanent rotation of the drum keeps the material moving, and clumping can be avoided



01 Energy saving 25-75%

Adopt servo control oil circuit, AC servo motor to achieve smooth low-speed action control, hydraulic energy consumption to the minimum, avoid oil temperature rise, effectively reduce the consumption of oil temperature cooling water, Compared with the traditional injection molding machine could save 25~75%.

Drying in minutes 15-20mins ≤50ppm

Infrared rays cause molecular thermal oscillations, which directly act on the core of the particles from the inside out, so that the moisture inside the particles is rapidly heated and evaporated into the circulating ambient air, and the moisture is removed at the same time.



2 Special screw design for PET Preform

Equipped with special screw for PET bottle billet with aspect ratio of 24:1 to shorten plasticizing time. It will avoid the decomposition of elastomer components and small bubbles. Special design on screw groove, compression ratio and three-stage ratio which effectively reduces the production of black spots

Instant start and quicker shut down

①An immediate start of the production run is possible immediately upon startup. A warm-up phase of the machine is not required.

2Processing can be started, stopped and restarted easily



Double acting piston rod

Double acting piston rod is matched with independent pumping cylinder, reasonable distribution of power. When injecting, the injection oil cylinder area is small, the oil return amount is small, and the oil return back is low, so the system does less useless work, high efficiency and energy saving.

Lower energy cost

Today LIANDA IRD users are reporting energy cost as 0.06kwh/kg, without sacrificing product quality



Double acting piston rod with independent pumping cylinder

Easy cleaned and change materials

The drum with the simple mixing elements has no hidden spots and can be cleaned easily by a vaccum cleaner or compressed air



PLC Control

Recipes and process parameters can be stored in the controlling system to ensure opimal and reproducble results



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04

Effectively stop the sagging of the melt barrel

The barrel support adopts linear guide rail, and forms an integral part with the front plate of the injection, which will not be unreliable due to the adjustment of the injection table, and effectively control the sagging of the melt barrel;

