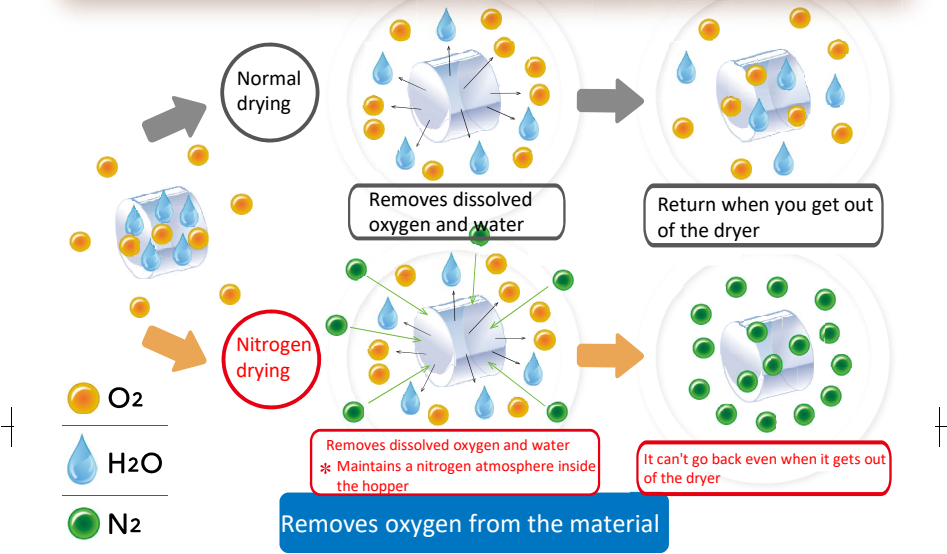


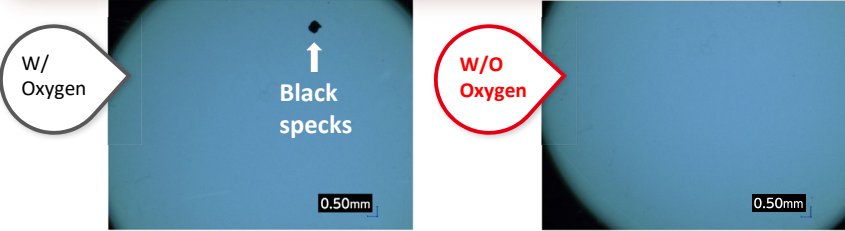
Prevent Yellowing and carbide

It is drying with nitrogen



Without oxygen, when dissolved

With nitrogen purged

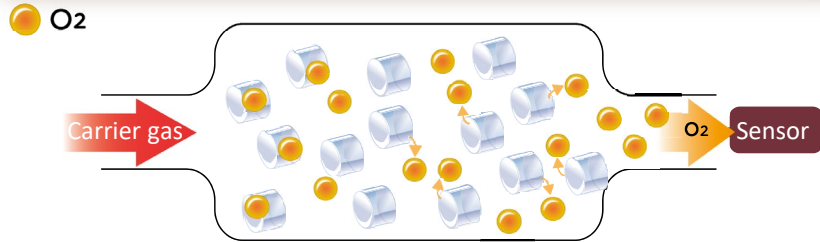


Stable molding with reduced black spots and after yellowing

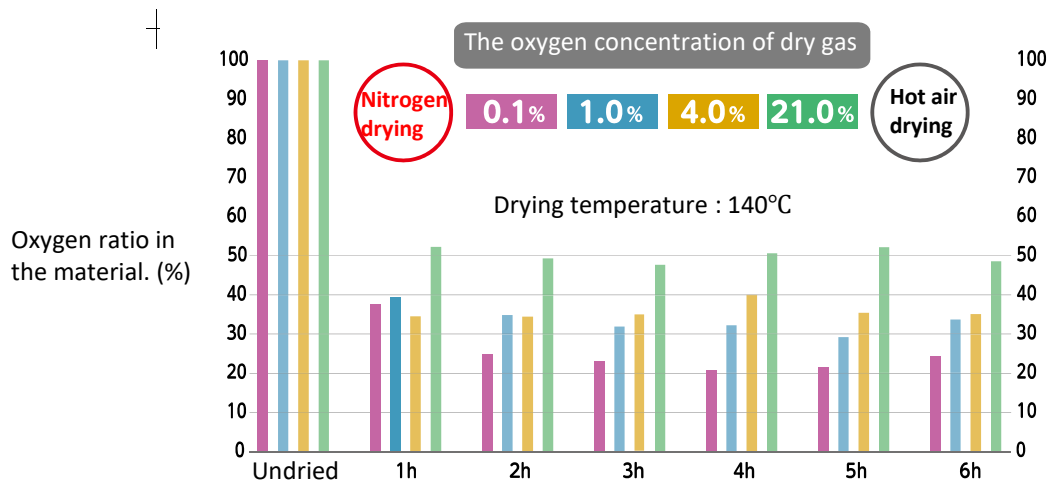
Nitrogen dryers **DO**_{series} | **DT**_{series} | **DK**_{series}

Quantify oxygen in the material

Oxygen in the material that causes defects can be quantified



Measure oxygen in the material

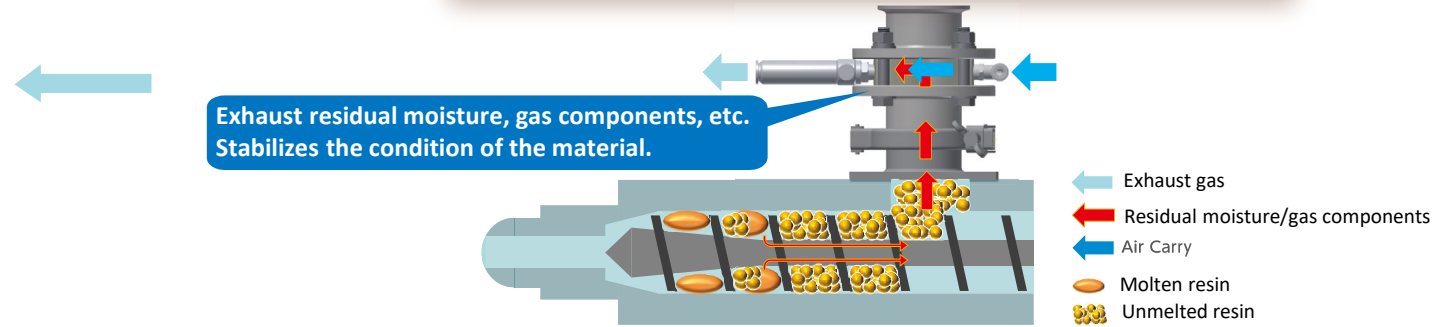


Stable molding with condition management

Dissolved oxygen measurement technology

Material stabilization

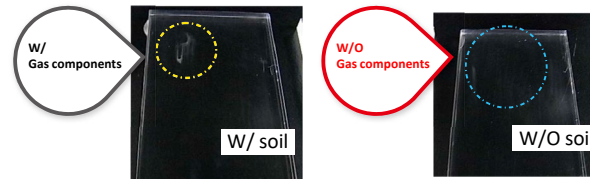
Gas components are generated when the material is heated.



Removes gas components from the molding machine

When the gas component is removed.

Effect of gas component removal on molded products



The situation in the barrel



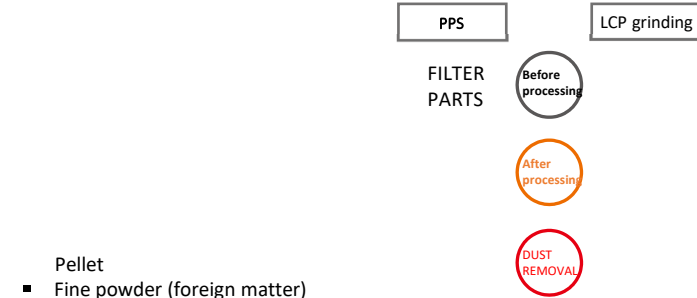
Molded Products	Raw materials	Purposes / Effects
Automotive connectors	PBT	Reduction of discoloration defects Growth of mold maintenance cycle
Automotive electrical parts	PPS	Stable weighing time, gas removal
Micro connectors	LCP	Blister measures
Mobile terminal connectors	PA	Measures against after yellowing and black specks by using nitrogen drying together
Optical Lenses	PC	Stable molding by using nitrogen drying together

Stable molding by reducing degradation products and adhesive material

Re-adsorption prevention device **DN**_{series}

Prevents white spots and bright spots

By the centrifugal force



- Pellet
- Fine powder (foreign matter)
- Airflow
- ⋯→ The flow of fine powder
- Pellet flow

Remove the powder materials

By an atmospheric current

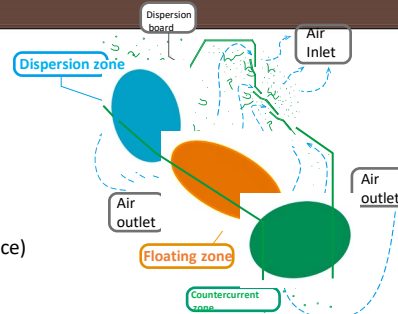
Separate large foreign objects

Distributed zone

Floating zone for separating and removing fine, floss, etc.

Separate large foreign substances
Countercurrent zone

- Pellet
- Fine powder (foreign substance)
- ~ Floss
- ⋯→ Air-flow



Stable molding by removing fine powder

Remove Powder dust / foreign substance

XF series | FS series



Environmental improvement at the molding site

Prevents diffusion by recovering gas components generated during drying

OIL DEMISTER (Oil mist eliminator)

A →

liquefaction and collected it



Enlarged view of A

Solid collector (SOLID RECOVERING DEVICE)



B ↑

Solidified and collected



Enlarged view of B

Stabilize the molding environment

Reduction of volatile components OIL DEMISTER | Solid collector

Stabilization of melting process

What is ECOMAK

An injection molding system that quickly removes volatile components, low boiling materials, and moisture from resin raw materials during plasticization under the conditions of "appropriate supply" and "decompression" in the molding machine cylinder.

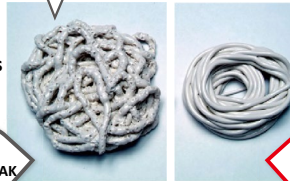
Removes gas components from the molding machine

By decompressing and supplying an appropriate amount

- Significantly reduce defects in molded products
- Able to a broader range of molding conditions
- Improved quality of secondary processing
- Reduced number of mold maintenance
- Complements inadequate drying of raw materials

Purge test

Undried ABS

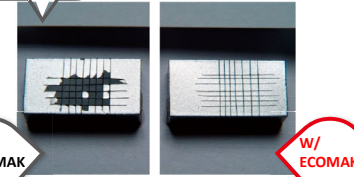


Defect improvement example

Poor appearance due to glass and gas



Poor paint adhesion



Stabilized by supplying an appropriate amount

Decompression / appropriate amount feeder **SX**_{series}

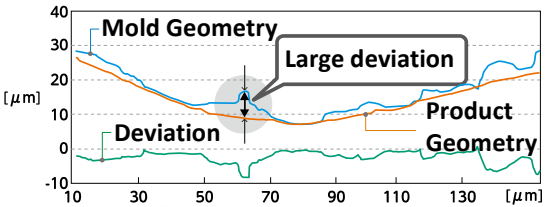
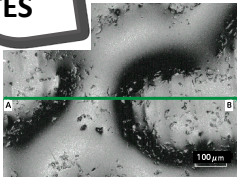
Improved transferability

By switching medium

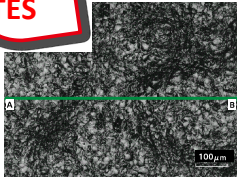
- Improved transferability of optical components
- Shortening the molding cycle

Reduce cooling time

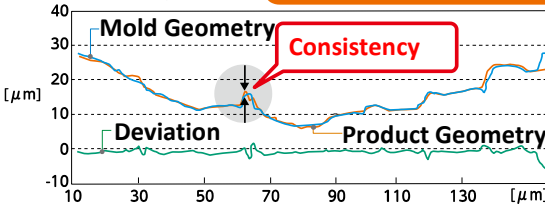
W/O
TES



W/
TES



Improved transferability



Type	Medium	High-temperature side operating temperature	Heating capacity
TES-W	Water	MAX.180°C	MAX.78kW
TES-O	Oil	MAX.300°C	MAX.78kW
TES-STEAM	Vapor	MAX.180°C	MAX.468kW ^{Or equivalent*}

* Amount of heat for a simplified boiler

Stable molding in interlock with the molding machine

A rapid heating and cooling device **TES**_{series}