KINORI (주) 기노리

KINORI Case Study Supercritical de-binding process in injection molding





Engineer : ILSHINAUTOCLAVE

Location : SEONGNAM. REPUBLIC OF KOREA



Supercritical CO₂ Debinding system - Wax or binder removal process





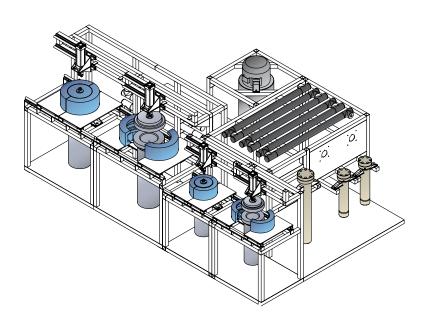
PROCESS	
Removal Condition	380kg/cm^2 at $80 ^{\circ}\text{C}$
Total Output	1.2 ton/day
Production Time	3hr/day x 2set











MAJOR APPLIANCES	
Extractor	20l x 2 units / 40l x 2 units
Max. Working Pressure	700 kg/cm²
Quick closure Clamp	
Separator	50ℓ x 2 units / 15ℓ x 1 units
HP Pump	5 HP × 2 unit
Max. Working Pressure	400 kg/cm²
Max Flow Rate	2ℓ/min
Pre-Heater	Shell & Tube Type × 2 units
Condenser	Double Pipe Type
CO ₂ Reservoir	120ℓ x 1 units
	(Certificate of Korean Gas Safety inspection

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Continuous process

Automatic system

Conform with High-pressure Gas Safety Regulation

Certificate of Korean Gas Safety inspection