

PLASMA NITRIDING FURNACE

離子氮化爐

FEATURES

設備概要

- 加熱器設置在內部因此與既有的設備相比，能發揮出如下更優秀的特性
 - 縮短昇溫時間
 - 能得到均勻的溫度分布
 - 由於溫度可以分區控制，大型裝置也能進行大量且均一的處理
 - 在常溫狀態無輝光放電，因此異常放電(電弧放電)的情況也會減少
 - 可以混載不同質量的處理材進行處理
 - 即使是複雜形狀的零件也不會氮化不均，品質安定
- 爐內設有冷卻風扇及熱交換器，與既有的離子氮化處理相比，能夠壓倒性減低降溫時間
- 使用做為隔熱構造的反射板，放熱及散熱達到最佳的平衡。相較本公司既有的設備，能達到▲20%的節能
- Compared with conventional furnaces, this furnace, with its built-in heaters, demonstrates the following superior characteristics
 - Shortened heat up time
 - Uniform temperature distribution is obtained
 - Temperature zone control enables even large furnaces to process large bulk batches uniformly
 - Since electrical discharge is not performed at room temperature, abnormal discharge (i.e. arcing) issues are reduced
 - Simultaneous treatment of multiple part types is possible
 - Even complicated shapes can be treated with stable, reliable, and uniform quality
- With an internal cooling fan and heat exchanger, cooling time is greatly reduced compared to conventional furnaces
- Due to the reflection plate, insulation is optimized allowing for faster heat up and cool down (20% energy reduction)



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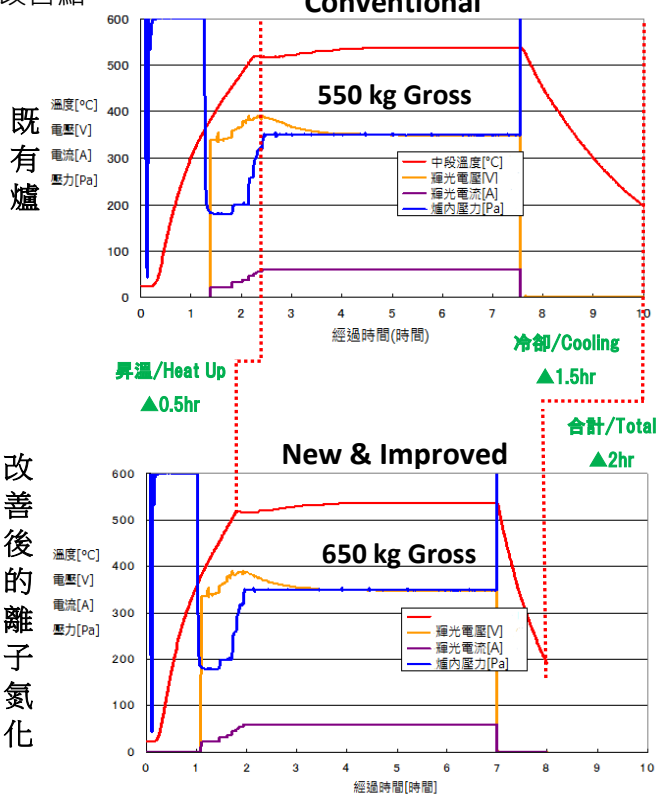
SPECS

基本規格

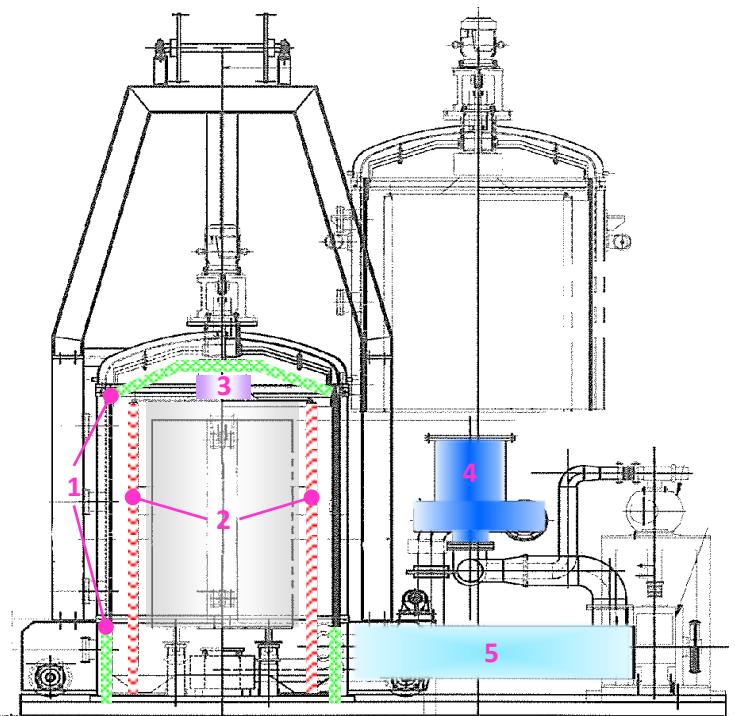
型號	設置空間(例)	有效加熱範圍尺寸		最大處理重量 (kg/毛重)	到達真空度	標準處理溫度(°C)
		Φ	高度			
DPN-5065	2300W × 5350L × 3714H	500	650	600	<60Pa (0.5 Torr)	350~570 (600以下)
DPN-9150	3080W × 4555L × 5100H	900	1500	1000	<60Pa (0.5 Torr)	350~570 (600 Max)
DPN-13200	3400W × 7720L × 5600H	1300	2000	2000	<60Pa (0.5 Torr)	350~570 (600 Max)
Model	Furnace Body Dimensions (mm)	Usable Dimensions		Max Processing Weight (gross kg)	Pressure Attained	Standard Processing Temperature

IMPROVEMENTS

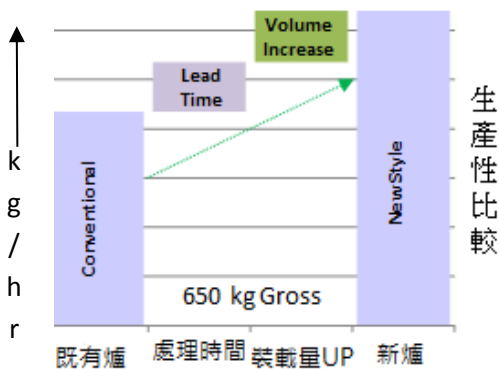
改善點



改善後的離子氮化



- 1) 反射板
Reflection Panels
- 2) 加熱器
Heaters
- 3) 爐內攪拌風扇
Internal circulation fan
- 4) 冷卻風扇
Cooling blower
- 5) 熱交換器
Heat exchanger



Productivity Comparison

- ※ 已成功提高(kg/hr.)47%的效率
- ※ Have achieved 47% increased efficiency

處理時間及裝入重量的不同，效率會跟著改變
Amount of improvement is subject to process time and weight