

ROLLER HEARTH HIGH TEMPERATURE SINTERING FURNACE WITH ENHANCED SINTER HARDENING

Advantages over Mesh Belt Furnaces

TMax 1300 ℃ Vs TMax 1150 ℃.

No belt purchases

Belt heating energy saved (mostly equal to parts heating energy)

Lower gas consumption (< 50%), lower process cost

Atmosphere lock doors eliminate air drag in

No air drag in \Longrightarrow low H₂ consumption (max 3%)

Low H₂ less carbon loss, less graphite additions

Faster cooling of rapidly transferred parts from a

Advantages of High Temperature Sintering

Easy sintering of Cr & Mn alloys,

Reduced sintering time, higher productivity

Improved mechanical properties: hardness, tensile, fatigue, yield & impact

- Better particle bonding
- Improved strength and toughness from leaner alloys

Higher density parts, elimination of double pressing in several cases

- More pore rounding, better pore morphology
- Homogenisation of elemental alloy addition, better part performance
 - Improved heat treatment response

Best results with micro-alloyed parts

High Temperature **Pusher Furnaces** Up to 1750°C

Powder Metals Refractory Metals Ceramics Hard Metals MIM Stainless Steel

> Sintering Firing Co-Firing Brazing Reducing Calcining Infiltration Carburising



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