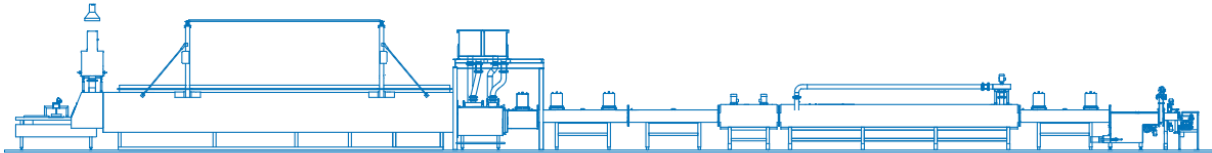


Roller Hearth Sintering Furnace RHF

Roller Hearth Furnaces are used for applications where conveyor belt furnaces cannot attain the required maximum temperature. These furnace types are characterized by high throughput. The parts are loaded onto CFC or graphite charge plates (possibly passivated through small ceramics). The roll drive combined with the use of charge carriers allows varying the speed at which the parts are run through the furnace system. Thus, the parts can be driven quickly from the sinter zone into the rapid cooling in order to harden them precisely. Also, using charge carriers allows the installation of locks to optimize protective gas consumption and for flow control.

In combination with a conveyor belt furnace design in the cooling zone, linked to an annealing or tempering zone, a modern and efficient furnace is constructed meeting all process requirements of today's market.

- Temperature under protective gas up to 1.300°C
- Throughput 200 - 500kg/h sinter



Specifications

| Technical Features | |
|--------------------|---------------------------------------|
| Effective width: | variable, depending on charge carrier |
| Throughput: | 200 – 500 kg/h |
| Heating: | Electric or hybrid |
| Atmosphere: | Forming Gas |
| Temperatures: | 1200 °C, 1300 °C |

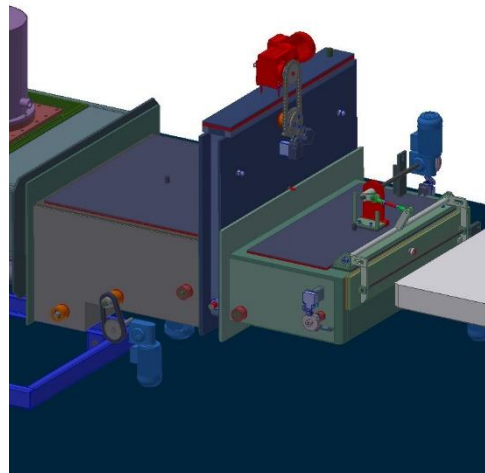
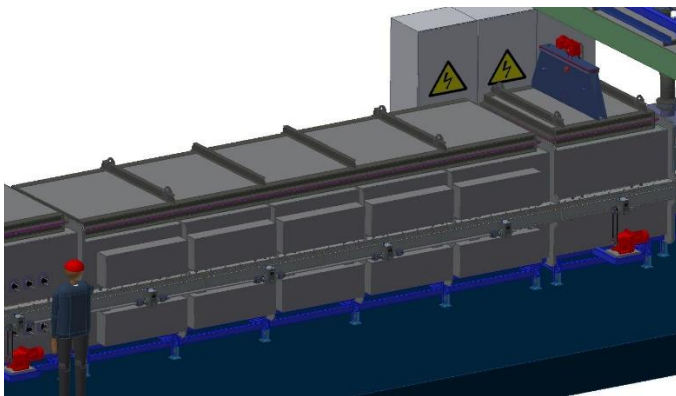
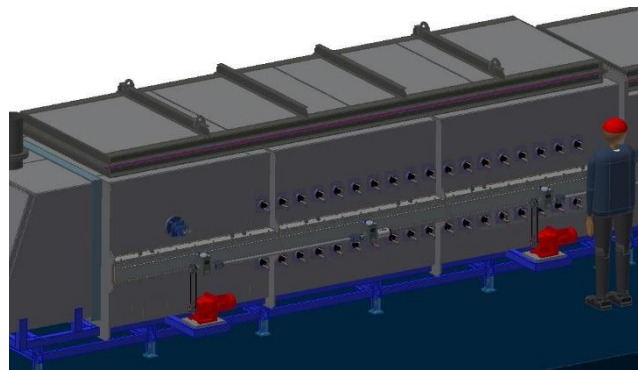
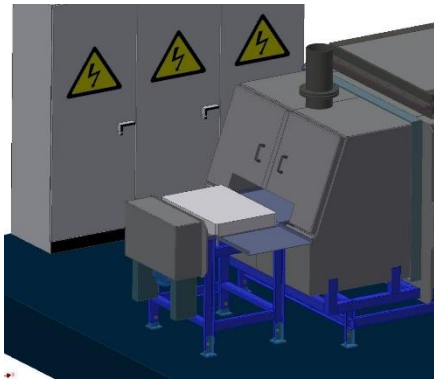
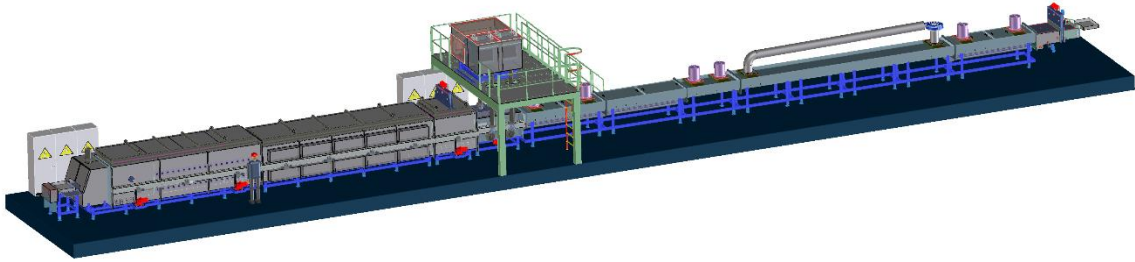
Applications

This furnace type has been especially designed for green Fe-PM parts sintering. It takes up to the conveyor belt furnace, taking into account that it is protective gas saving offering higher sinter temperatures at the same time. The parts can be run from one process step to another rapidly due to the roller principle and unlinked speed profiles.

Additional Equipment Modules

| | |
|------------------------------------------------------|----------------------------------|
| + Soft RBO for careful dewaxing in the stearate zone | + Rapid cooling / annealing zone |
| + Gas heating with radiant tubes in the pre-zone | + Automation |
| + | |

Foto Gallery



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