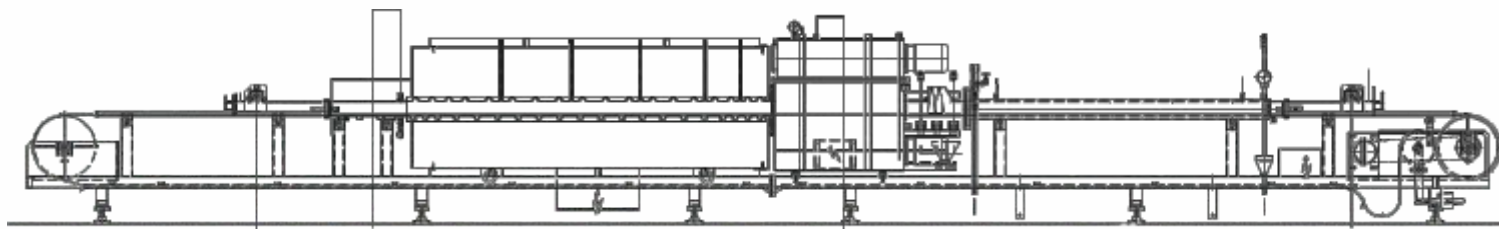


Laboratory Furnace 12Bd20

Annealing, Hardening, Carburizing, Artificial ageing, Tempering,





Laboratory Wire Mesh Belt Furnace 12Bd20

The laboratory furnace is designed as a wire mesh belt furnace with heated muffle and subsequent cooling lane. The belt is dimensioned in a way to make sure that as many different parts as possible can be treated either directly or in trays in the plant. The plant is equipped with all necessary safety devices and disposes of fully automatic control via PLC.

The plant is suitable for the following heat treatment processes:

- (Blank) Annealing under protective gas atmosphere at up to 1100 °C, cooling to about 80 °C
- Hardening under protective gas atmosphere (depending on material and dimensions, for special materials)
- Carburizing and case hardening (limited)
- Artificial ageing
- Tempering

The furnace is equipped with a **gas supply device** enabling the supply of

- nitrogen
 - endogas
 - hydrogen
 - propane
 - natural gas
 - air
- in the required composition.

Technical Data

Furnace cycle time:	approx. 7,5 - 60 min	Type of conveyor belt:	Wire mesh belt
Total cycle time:	32 - 255 min	Belt width:	150 mm
Maximum temperature:	1100°C	Max. passage height:	80 mm
Heating capacity:	46 kW	Heated furnace length:	2400 mm
Max. load :	30 kg/running meter of the belt	Cooling area:	3800 mm