

Press-forging and heat-treating equipment

Reheating and heat-treating furnaces



Car-bottom heat treating furnace is intended for products high accuracy heat treatment on the effective pulse system and modern high speed gas burners basis, equipped with electrical ignition and flame control, as also cooling air supply implemented in lances. The furnace includes the following constitutive parts:

- furnace casing;
- car-bottom on wheels with frame plates and sealers for front, back and lateral butt ends sealing;
- front of working door with door lifting mechanism;
- car-bottom path;
- car-bottom rolling out mechanism;
- gate drive mechanisms;
- gas and air supply;
- smoke exhaust;
- electrical equipment;
- automated process control system.

Reheating and heat-treating furnaces specification

Parameter description	Model parameters value	
Car-bottom dimension, m	3,2x8,0	3,9x10,5
Metal heating temperature, °C	1000	1000
Charge weight, t	100	180
Fuel type	Natural gas	Natural gas
Calorific efficiency, MJ/m ³	34	34
Maximal fuel consumption, m ³ /h	400	600
Number of burner devices	10	12
Maximal air consumption as per burning, m ³ /h	4000	6000
Maximal air consumption as per cooling, m ³ /h	13000	22000
Required gas pressure before burner, kPa/h	8,0	8,0
Required air pressure before burner, kPa/h	7,0	7,0
Air heating temperature for burning, °C	200	200
Spray recuperators type/ quantity, pcs	Panel / 4	Panel / 6
Maximal combustion products quantity, m ³ /h	4500	6600
Number of temperature regulating areas	3	3