

Heat Treatment – Hardening, Tempering, Austempering, Martempering, Precipitation Hardening, Annealing, Stress Relieving etc.**Table 1. Heat treatment equipment specification - Vacuum Furnace 1****Device: SECO/WARWICK 10.0-V-3/3 HP GAS QUENCH VACUUM FURNACE**

No.	Specification	Value	Unit	Comments
1	Max. Load	70	kg	
2	Work Zone Dimensions (WxHxL)	280x280x500	mm	3 levels of trays
3	Max. Cooling Pressure	8	bar	Quench medium: N ₂
4	Max. Operating Temperature	1200	°C	
5	Temperature Uniformity	±10	°C	
6	Operating Vacuum	10 ⁻²	mbar	
Device dedicated to treating small section parts				

Table 2. Heat treatment equipment specification - Vacuum Furnace 2**Device: SECO/WARWICK 15.0 VPT 22/24 HP GAS QUENCH VACUUM FURNACE**

No.	Specification	Value	Unit	Comments
1	Max. Load	120	kg	
2	Work Zone Dimensions (WxHxL)	380x390x550	mm	3 levels of trays
3	Max. Cooling Pressure	13	bar	Quench medium: N ₂
4	Max. Operating Temperature	1200	°C	
5	Temperature Uniformity	±5	°C	
6	Operating Vacuum	10 ⁻²	mbar	
Device dedicated to treating small section parts				

Table 3. Heat treatment equipment specification - Tempering Furnace**Device: REMIX D-07/123 FURNACE**

No.	Specification	Value	Unit	Comments
1	Max. Load	200	kg	
2	Work Zone Dimensions (WxHxL)	400x400x600	mm	
3	Max. Operating Temperature	700	°C	
4	Atmosphere type	N ₂		

Table 4. Heat treatment equipment specification - Cryogenic Freezer**Device: Cryoflex B300 Cryogenic chest freezer**

No.	Specification	Value	Unit	Comments
1	Max. Load	300	kg	
2	Work Zone Dimensions (WxHxL)	600x600x900	mm	
3	Operating Temperature	-100	°C	

Thermochemical Treatment – Case Hardening (Low Pressure Carburizing, Carbonitriding, Nitriding)**Table 1. Thermochemical treatment equipment spec. - LPC Furnace****Device: SECO/WARWICK 15.0 VPT 22/24 HP GAS QUENCH VACUUM FURNACE**

No.	Specification	Value	Unit	Comments
1	Max. Load	120	kg	
2	Work Zone Dimensions (WxHxL)	380x390x550	mm	3 levels of trays
3	Max. Cooling Pressure	13	bar	Quench medium: N ₂
4	Max. Operating Temperature	1200	°C	
5	Temperature Uniformity	±5	°C	
6	Operating Vacuum	10 ⁻²	mbar	
Device dedicated to treating small section parts				

Table 2. Thermochemical treatment equipment spec.- Nitriding Furnace**Device: PIEC WGLEBNI DO AZOTOWANIA SECO/WARWICK VRNe 60.100-650-5**

No.	Specification	Value	Unit	Comments
1	Max. Load	200	kg	
2	Work Zone Dimensions (Diameter x	600x900	mm	6 levels of trays
4	Max. Operating Temperature	700	°C	
5	Temperature Uniformity	±5	°C	
Device dedicated to treating small section parts				