

# Nanyang XinYu New Material Technology Co.,Ltd

www.nyxinyu.com

Email: Sales@nyxinyu.com

Xinyu furnace Mainly products range:

Max. 1800.C muffle furnace, atmosphere gas furnace, tube furnace, crucible furnace, bottom loading furnace, high vacuum furnace, Car bottom furnace.

Max. 1800.C~2200.C high vacuum graphite furnace.

## (1) Muffle furnace:



Max. Temperature: 1200.C / 1400.C / 1700.C / 1800.C

Working temperature: 1100.C / 1300.C / 1600.C / 1700.C - 1750.C

Chamber size: 100x100x100mm, 200x150x150mm, 300x200x200mm, 400x300x300mm, or bigger.

Temperature Control: PID automatic control and 30/50 programmable segments for precise control.

Optional parts :

PLC touch screen controller, paperless recorder, Remote communication control system, observation window, Gas inlet and venting port are installed for using at oxygen or inert gas atmospheres.

PLC touch screen controller type:



Some economy mini muffle furnace:



Mini muffle furnace

Chamber 100x100x100mm

**Some large capacity muffle furnace for reference:**



**1200.C 1000x500x1000mm      1400.C 2200x300x300mm.**



**1700.C chamber:600x300x300mm.**

**(2) Atmosphere gas protective furnace:**



**Max. Temperature: 1200.C / 1400.C / 1700.C / 1800.C**

**Working temperature:1100.C/1300.C/1600.C/1700.C-1750.C**

**Chamber size: 100x100x100mm, 200x150x150mm,300x200x200mm,400x300x300mm,or bigger.**

**Temperature Control:PID automatic control and 30/50 programmable segments for precise control.**

**Inert gas, N<sub>2</sub>,O<sub>2</sub>,CO<sub>2</sub> atmosphere protective available.**

**Max. Vacuum: -0.1Mpa.**

**Optional parts :**

**PLC touch screen controller, paperless recorder,Remote communication**

**control system, 2-4 gas mixing system;**

Some large capacity atmosphere furnace for reference:



1700.C chamber size:400x400x400mm



1700.C chamber size:500x500x500mm



1700.C with chamber size:600x600x600mm

### (3) Crucible furnace



Max. Temperature: 1200.C / 1400.C / 1700.C

Working temperature:1100.C/1300.C/1600.C

Chamber size: Dia.100xH120mm, Dia.120xH200mm, Dia.100xH300mm,  
Dia.150xH200mm, Dia.190xH340mm, Dia.240xH500mm. or bigger.

Temperature Control: PID automatic control and 30/50 programmable segments for precise control.

It can be vacuum and atmosphere protective available. Max.vacuum: -0.1Mpa.

**Optional parts :**

**PLC touch screen controller, paperless recorder, Remote communication control system, 2-4 gas mixing system;**

**One simple crucible furnace:**



**(4) High vacuum furnace**

**1000.C~1800.C high vacuum furnace:**



**Max. Temperature: 1200.C / 1400.C / 1700.C / 1800.C**

**Working temperature: 1100.C / 1300.C / 1600.C / 1700.C**

**Heating elements: Fe-Cr-Al-Mo alloy wire / SiC heater / MoSi<sub>2</sub> heater**

**Chamber size: 100x100x100mm, 200x150x150mm, 300x200x200mm, 400x300x300mm, or bigger.**

**Temperature Control: PID automatic control and 30/50 programmable segments for precise control.**

**Inert gas, N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> atmosphere protective available.**

**Vacuum range: 10<sup>-5</sup> Pa ~ 100pa; 100pa ~ 1Pa; 1Pa ~ 10<sup>-3</sup>Pa.**

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1800.C~2200.C high vacuum furnace:



**Max. Temperature: 2000.C / 2200.C**

**Working temperature:1900.C/2000.C**

**Heating elements: Graphite heater**

**Chamber size: Dia.90x120mm, Dia.160x160mm,Dia.320x320mm.**

**Temperature Control: PID automatic control and 30/50 programmable segments for precise control.**

**Atmosphere protective: 99.99% N2 or Ar .**

**Vacuum range: 6.67x10<sup>-2</sup>Pa.**

**Optional parts :**

PLC touch screen controller, paperless recorder,Remote communication control system, 2-4 gas mixing system,water cooling system.

vacuum gas quenching furnace:



**Max. Temperature: 1300.C; Working temperature:750.C~1300.C**

**Heating elements: Graphite heater / molybdenum / Tungsten ;**

**Insulation layer: Graphite / stainless steel / molybdenum+stainless steel**

**Chamber size: 300x200x200mm,600x400x400mm,700x500x500mm,900x600x600mm, 1200x700x700mm, 1500x800x800mm, or bigger.**

**Temperature Control:PID automatic control and 30/50 programmable segments for precise control.**

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Inert gas, N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> atmosphere protective available.

Gas cooling pressure: 0.8 / 2 / 6 / 10 Bar; Pressure rise rate: 0.65Pa/h;

Working Vacuum range: 6.65x10<sup>-1</sup>Pa or 6.65x10<sup>-3</sup>Pa or higher .

## (5) Tube furnace



Max. Temperature: 1200.C / 1400.C / 1700.C/1800.C;

Working temperature:1100.C/1300.C/1600.C/1700.C;

Tube size: Dia.40-120mm, heating zone:200mm,300mm,400mm,600mm or more long.

(1-5) Multiple heating zone can be available.

Temperature Control:PID automatic control and 30/50 programmable segments for precise control.

Inert gas, N<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> atmosphere protective available.

Low Vacuum: -0.1Mpa. High vacuum: 10Pa, 1.33x10<sup>-1</sup> ~1.33x10<sup>-2</sup>Pa, 1.33x10<sup>-3</sup>Pa or higher;

Optional parts :

PLC touch screen controller, paperless recorder,Remote communication control system, 2-4 gas mixing system, higher vacuum optional.

Some more tube furnace photos for your reference:



1200.C Two heating zone tube furnace



1400.C 2 heating zone tube furnace



1200.C 3 heating zone tube furnace



1200.C 5 heating zone tube furnace



1200.C CVD tube furnace with 2-4 gas channels mixing system

Heating zone: single zone, 2 heating zone, 3 heating zone, 5 heating zone.

Gas mixing system: 2-4 gas channels.



Float flow meter system:

Range: 0.03-0.3SLM, 10-100SCCM,  
16-160ml/min, 25-250cc/min or more optional;



Mass flow meter system:

5sccm, 10sccm, 20sccm, 30sccm, 50sccm, 100sccm,  
200sccm, 300sccm, 500sccm;

1slm, 2slm, 3slm, 5slm, 10slm optional.



### Rotary tube furnace

Max. Temperature: 1200.C / 1400.C / 1700.C;

Working temperature:1100.C/1300.C/1600.C;

Tube size: Dia.40-120mm, heating zone:200mm,300mm,400mm,600mm or more long.

Multiple heating zone can be available.

Tube Rotating Speed: 0~30 RPM variable; Furnace tilt angle:0 - 30.

Temperature Control:PID automatic control and 30 programmable segments for precise control.



### 1100.C Rapid thermal processing RTP tube furnace



**Vertical tube furnace: 1200.C/1400.C/1700.C**

**Working temperature:1100.C/1300.C/1600.C;**

**Tube size: Dia.40-120mm, heating zone:200mm,300mm,400mm,600mm or more long.**

**Temperature Control:PID automatic control and 30/50 programmable segments for precise control.**

**Inert gas, N<sub>2</sub>,O<sub>2</sub>,CO<sub>2</sub> atmosphere protective available.**

**Low Vacuum: -0.1Mpa.**





**One Simple multiple position 1200.C tube furnace: tube Dia:60mm x300mm L .**

### **(6) Bottom loading furnace**



**Max. Temperature: 1200.C / 1400.C / 1700.C**

**Working temperature: 1100.C/1300.C/1600.C**

**Chamber size: 100x100x100mm, 200x150x150mm,300x200x200mm,400x300x300mm,or bigger.**

**Temperature Control:PID automatic control and 30/50 programmable segments for precise control.**

**Inert gas, N<sub>2</sub>,O<sub>2</sub>,CO<sub>2</sub> atmosphere protective available.**

### **(7) Dental sintering furnace**



**1200 degree vacuum porcelain furnace**



**1700.C dental zirconia sintering furnace**

**(8) Car bottom furnace**



Some small size optional:

Type	Chamber size W x H x D	Power	Phase	Working temperature
XY-CBF-65	550x450x1100mm	65KW	3	950.C
XY-CBF-105	800x600x1500mm	105KW	3	950.C
XY-CBF-180	1050x750x2100mm	180KW	3	950.C
XY-CBF-60	650x450x1300mm	60KW	3	1200.C
XY-CBF-120	900x700x1800mm	120KW	3	1200.C

**Big bottom loading trolley furnace size :**

650.C range Technical Parameters:

Item No.	Power (kw)	Working temp. (°C)	Voltage (V)	Heating zone	Inner chamber size (mm)	Outer size (mm)	Capacity (t)
ST3-50-7TP	50	650	380	1	1500x650x600	2500x1800x1800	1.5
ST3-60-7TP	60	650	380	1	1800x900x650	2800x1900x1800	2.5
ST3-80-7TP	80	650	380	1	2000x750x750	3000x1900x2000	3
ST3-90-7TP	90	650	380	1	2000x750x800	3000x1900x2000	4.5
ST3-100-7TP	100	650	380	1	2200x650x650	3200x1950x2100	5
ST3-120-7TP	120	650	380	1	2200x1300x800	3200x2300x2000	5
ST3-130-7TP	130	650	380	1	2400x1200x750	3400x2200x1800	7
ST3-140-7TP	140	650	380	1	2400x1400x750	3400x2400x2000	7
ST3-150-7TP	150	650	380	1	2800x1500x900	3700x2500x2100	7
ST3-170-7TP	170	650	380	2	3000x1500x750	3800x2500x2200	7
ST3-180-7TP	180	650	380	2	3500x1500x1200	4200x2500x2400	12
ST3-200-7TP	200	650	380	2	3500x1500x1200	4500x2500x2400	12
ST3-210-7TP	210	650	380	2	3500x1600x1200	4500x2600x2400	12
ST3-220-7TP	220	650	380	2	3500x1800x1200	4500x2800x2400	13
ST3-240-7TP	240	650	380	2	5500x1200x1200	6500x2200x2400	13
ST3-250-7TP	250	650	380	2	6000x1200x1200	7000x2200x2400	18
ST3-280-7TP	280	650	380	2	6500x1200x1200	7500x2200x2400	18
ST3-300-7TP	300	650	380	2	6500x1500x1200	7500x2500x2400	20

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### 950.C range Technical Parameters:

Item No.	Power (kw)	Working temperature (°C)	Voltage (V)	Heating zone	Inner chamber size (mm)	Outer size (mm)	Capacity (t)
ST3-65-10	65	950	380	1	1200x600x450	2200x1600x1950	0.8
ST3-75-10	75	950	380	1	1500x750x600	2500x1800x2100	1.5
ST3-75-10	75	950	380	1	1500x750x650	2500x1800x2150	1.5
ST3-105-10	105	950	380	1	1800x900x650	2800x1800x2100	2.5
ST3-120-10	120	950	380	1	2000x1000x700	3000x1900x2000	2.5
ST3-120-10	120	950	380	1	1800x900x900	2800x1900x2000	2.5
ST3-130-10	130	950	380	1	1800x1200x800	2800x2100x2100	3
ST3-130-10	130	950	380	1	2000x1000x800	3000x1900x2100	3
ST3-140-10	140	950	380	1	2200x1050x750	3200x1950x2100	4
ST3-140-10	140	950	380	1	2000x1200x800	3000x2100x2100	4
ST3-150-10	150	950	380	1	2800x900x600	3800x1950x2100	4.5
ST3-150-10	150	950	380	1	2600x1000x800	3600x1900x1600	4.5
ST3-160-10	160	950	380	2	2200x1300x800	3200x2100x2100	5
ST3-160-10	160	950	380	2	2000x1200x1000	3000x2000x2300	5
ST3-160-10	160	950	380	2	2400x1200x800	3400x2200x2200	5.5
ST3-160-10	160	950	380	2	2500x1100x900	3300x2100x2100	5.5
ST3-180-10	180	950	380	2	2400x1200x1000	3400x2200x2200	6
ST3-180-10	180	950	380	2	2400x1300x900	3300x2100x2100	6

### 1100.C range Technical Parameters:

Item No.	Power (kw)	Working temp. (°C)	Voltage (V)	Heating zone	Inner chamber size (mm)	Outer size (mm)	Capacity (t)
ST3-75-12	75	1100	380	1	1200x600x450	2200x1600x1950	0.8
ST3-80-12	80	1100	380	1	1500x700x600	2500x1800x2100	1.5
ST3-90-12	90	1100	380	1	1500x700x650	2500x1800x2150	1.5
ST3-120-12	120	1100	380	1	1800x900x650	2800x1800x2100	2.5
ST3-125-12	125	1100	380	1	2000x1000x700	3000x1900x2000	2.5
ST3-125-12	125	1100	380	1	1800x900x900	2800x1900x2000	2.5
ST3-135-12	135	1100	380	1	1800x1200x800	2800x2100x2100	3
ST3-135-12	135	1100	380	1	2000x1000x800	3000x1900x2100	3
ST3-145-12	145	1100	380	1	2200x1050x750	3200x1950x2100	4
ST3-145-12	145	1100	380	1	2000x1200x800	3000x2100x2150	4
ST3-160-12	160	1100	380	2	2800x900x600	3800x1950x2100	4.5
ST3-160-12	160	1100	380	2	2600x1000x800	3600x1900x2200	4.5
ST3-170-12	170	1100	380	2	2200x1300x800	3200x2200x2100	5
ST3-170-12	170	1100	380	2	2000x1200x1000	3000x2100x2300	5
ST3-180-12	180	1100	380	2	2400x1200x800	3400x2200x2200	5.5
ST3-180-12	180	1100	380	2	2500x1100x900	3300x2100x2100	5.5
ST3-200-12	200	1100	380	2	2400x1200x1000	3400x2200x2400	6
ST3-200-12	200	1100	380	2	2400x1300x900	3400x2300x2300	6

## (10) Heat treatment furnace parts:

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Silicon carbon rods/SiC heater  
Max. temperature:1400.C



Silicon molybdenum rods/MoSi2 heater  
Type: 1600.C /1700.C/1800.C



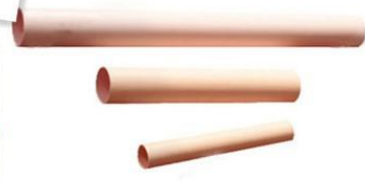
Alumina crucible



Quartz tube, use for tube furnace  
Max. working temperature:1100.C



Alumina tube ,used for tube furnace  
Max. working temperature:1700.C.



**Any inquiry, pls kindly feel free to contact us.**