

# Inclined Rotary Plasma Enhanced Chemical Deposition (Pecvd) Tube Furnace Machine

Item Number: KT-PE16



## Introduction

Introducing our inclined rotary PECVD furnace for precise thin film deposition. Enjoy automatic matching source, PID programmable temperature control, and high accuracy MFC mass flowmeter control. Built-in safety features for peace of mind.

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<b>Furnace model</b>	<b>PE-1600-60</b>
Max. temperature	1600°C
Constant work temperature	1550°C
Furnace tube material	High purity Al <sub>2</sub> O <sub>3</sub> tube
Furnace tube diameter	60mm
Heating zone length	2x300mm
Chamber material	Japan alumina fiber
Heating element	Molybdenum Disilicide
Heating rate	0-10°C/min
Thermal couple	B type
Temperature controller	Digital PID controller/Touch screen PID controller
Temperature control accuracy	±1°C
<b>RF Plasma unit</b>	
Output Power	5 -500W adjustable with ± 1% stability
RF frequency	13.56 MHz ±0.005% stability
Reflection Power	350W max.
Matching	Automatic
Noise	<50 dB
Cooling	Air cooling.
<b>Gas precise control unit</b>	
Flow meter	MFC mass flow meter
Gas channels	4 channels
Flow rate	MFC1: 0-5SCCM O <sub>2</sub> MFC2: 0-20SCMCH <sub>4</sub> MFC3: 0- 100SCCM H <sub>2</sub> MFC4: 0-500 SCCM N <sub>2</sub>
Linearity	±0.5% F.S.

Repeatability	±0.2% F.S.
Pipe line and valve	Stainless steel
Maximum Operating Pressure	0.45MPa
Flow meter controller	Digital Knob controller/Touch screen controller
Standard vacuum unit(Optional)	
Vacuum pump	Rotary vane vacuum pump
Pump flow rate	4L/S
Vacuum suction port	KF25
Vacuum gauge	Pirani/Resistance silicon vacuum gauge
Rated vacuum pressure	10Pa
High vacuum unit(Optional)	
Vacuum pump	Rotary vane pump+Molecular pump
Pump flow rate	4L/S+110L/S
Vacuum suction port	KF25
Vacuum gauge	Compound vacuum gauge
Rated vacuum pressure	6x10 <sup>-5</sup> Pa
Above specifications and setups can be customized	

No.	Description	Quantity
1	Furnace	1
2	Quartz tube	1
3	Vacuum flange	2
4	Tube thermal block	2
5	Tube thermal block hook	1
6	Heat resistant glove	1
7	RF plasma source	1
8	Precise gas control	1
9	Vacuum unit	1
10	Operation manual	1