RFQ# [ ]

FURNACE SPECIFICATION FORM

CENTORR Vacuum Industries

CONTACT

Date Rec'd:
Customer:
Add1:
Add2:
City,State, Zip
Country
email:
web:
Phone:
Fax:
Contact 1/Title:
Contact 2/Title:
Direct Rep
Rep Phone/Fax:

FURNACE INFORMATION

Equip: Series:
Model:

RFQ DETAILS

Source of Bid:
Type of Bid: Budget Firm
RFQ Due:
Competition:
Job Timing:
Funding:
Desr'd Deliv Date:
$Budget Avail:

APPLICATION

Mat'l:
Application:

Reason for Furnace:

OPTIONS / CUST EQUIP PREFS / CUST NEEDS

CUST NEEDS:

OPTIONS:

Reference Quotes:

RFQ/Job #	Cust	Descript.

Load Truck (elec/air)
O_2 Monitor (Model)
Dew Point Monitor

EQUIP PREFERENCES:

FURNACE SPECIFICATION FORM

CUSTOMER SPECIFICATION

Chamber Int/Ext/Flgs / / (SS/MS)

Doors (swing/bolt) Front: Rear:

Pneumatic/Sbar

Temperature

Cont. Oper Temp:

Max Oper Temp: Max. Design:

Temp Uniformity: +/- @ (vac / atm)

Cust. Witness #5 9 type t/c @ °C in vac /atm

Ramp Rate (°C/min) @ linear / ave

Load

Load Layout

Part Qty:

Part Size:

Furniture:

Max Load (Kg) (incl furniture)

Binder / Lubes

Type(s): wt%:

Other Contaminants:

Debind

1st Stage: (%) MP: Vapor:

2nd Stage: (%) MP: Vapor:

BRS: None Vac Delub WC Sweepgas™ OTO BRS
MimVac Incinerat Trap/Cond Peg Pot

Strategy:

Vacuum Evac Debind Sinter

Ultim. Vac Level:

Oper. Vac Level:

Vacuum Leak: Unif: +/-

Misc

Pressure (Bar)

Hot Press (ram 1-2 sided)

(ram travel)

Process Gas Temp Range Press/Vac Flow Rate(slpm)

Process Gas(es):

(externally switchable or concurrent)

G-10504A part press (1-1000µ) Gas:

G-10504A part press (1-760 torr) Gas:

G-10503A H_2 pos.press(1-3 psig) H_2/ Inert:

G-10503B H_2 part pres(2-760torr)

G-10503D H_2 pos. press(1-3psig) HiVac

G-10503E H_2 partial press Siemens PLC

G-10503G H_2 part. press(0-15torr)

G-10505A Pos Pres Flow(0-2psig) Gas(es):

G-10503H Pos Press Formng Gas (0-2 psig)

G-10505J part press Flow (0-15 torr)

Backfill Gas Gas(es):

WC Sweepgas™ (10-100 torr) Gas(es):

MimVac Sweepgas™(1-760 torr) Gas(es):

InjectavacSweepgas™(1-760torr Gas(es):

Backfill Gas Gas(es):

Misc Gas Strategy:

Cooling

Method: None Quench Fan
Heat Exch Prog. Cooling

Cooling Gas: Fan HP:

Cooling Rate (°C/hr):

Water

Open Closed

Water Quality:

Contin. Fce.

(productuctivity)

(setter)

FURNACE SPECIFICATION FORM

FURNACE DESIGN

Hot Zone (Resist Induction)

Hand Load/Ld truck:

Cust Des'd HZ Size:

HZ Size:

No. Sides:

No. Zones:

Mat'l/Type Alloy: Mo W Ta Graphite

- Elements:

- Shields/Insul:

- Hearth: (Rails/Rollers)

- Jail:

- Retort: Type:

Power / Utilities

Inc'g(V/Ph/Hz): / /

Hot Zone (KVA): Second V:

Tot Con Ld (KVA):

SCR/VRT/SaCR:

Air: H_2O(psig):

Gas(es) (slpm):

Vacuum

Mech/Roughing: CFM:

Blower: Oil Mist :

Manifolding: Main Debind Bypass

High-Vacuum: CFM:

Back'g/Hold'g:

Instrument. & Control

System Prog/Ctroller

PC-Based Ctrl Software:

Sys/Prog:

PLC:

Overtemp Ctrl:

Chart Record:

Gas Ctrl:

Misc. Ctrl Info:

Temp Sensors

T/C Type: Temp: # Ctrl:

Sheath: # OverT

Optic. Pyrom: 1 2 color

Vac Sensors	#	Type	Display/PS
Rough Vac	#	T/CVac Gauge	
	#	Capac. Mano	
	#	Piranni	
	#	Cold Cathode	
	#	Hot Ion Filamt	

Misc Control Stategy

FURNACE SPECIFICATION FORM

MISC. CUSTOMER PROFILE QUESTIONS

1. What are the main products mfg'd at your facility?
2. What are the current forming techniques (press & sinter; extrusion; MIM) ?
3. What are the end-use applications for your products?
4. What other type of furnaces are used at your facility?
5. Familiarity level with CVI furnace offerings?

FURNACE PROCESSING PROFILE

Step:	**Temp (°C)** from to	**Time**	**Ramp (°C/min)**	**Press / Vac**	**Gas**	**Toler (+/-°C)**

TOTAL CYCLE TIME: _____

FURNACE SCHEMATIC / GENERAL ARRANGEMENT

FURNACE SPECIFICATION FORM

CUSTOMER QUESTIONS

BOOKING MEETING QUESTIONS

FURNACE QUOTE STRATEGY / CHANGES