

Semiconductor Application Worksheet

Customer Name:	Classification:
Contact:	
Equipment	
Puller Manufacturer:	Number of Pullers:
Vacuum Pump brand:	Oil Sealed or Dry:
Booster brand:	Oil Filtration system included:
Auxiliary Pump used?:	Exhaust Filtration System included:
Filtration System brand currently used:	
Number of filter units per VP:	
Canister dimensions:	
Element Type (paper, polyester, steel mesh, etc.):	
# Elements per canister:	
Surface area:	
Element dimensions: OD:	ID:
Element height:	# of Pleats:
Size of holding area:	Inlet & outlet port sizes:
Are filter elements mounted on top or at bottom of canister?	
Process Data	
Ingot size(s) (Solar/Semi-con only):	
Typical cycle time(s):	



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Vacuum level required during each cycle: Base pressure:	Typical:	Run:	
How is the vacuum regulated during each cycle (valves, etc.)?			
Time required to remove ingot & set up for next run:			
Time and # of person(s) required to service filter unit:			
Is element replaced, cleaned and re-used? If applicable, how many cleanings before replacement?			
Is the entire line cleaned with cleaning device (PIG)? How often?			
Waste			
How is reacted SIO2/SIOX removed from filter system?			
How is material disposed?			
Is the waste material regulated in any way or is garbage OK?			
How much SIO/SIO2/SIOX collected per cycle:			
Operating Costs			
Typical labor rate per hour per person:			
Cost of replacement element(s):			
How many elements used per month or year?			
Are elements cleaned in-house or by outside service? If outside se	ervice, what is cost?		
How often are pumps re-built?			
On an annual basis, what is the approximate operating expense related to the vacuum system?			