



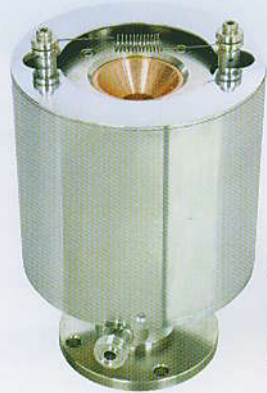
mars 120 thin-film coater

High-vacuum evaporation system (\varnothing =1200, h=1300mm) for optical applications

All Mars evaporation systems have a high process stability using high quality components that will increase MTBF. It is easy to supervise everything in detail with smart design. It also has a high problem solving capability that makes the Mars evaporator series as an excellent choice for your production facility.

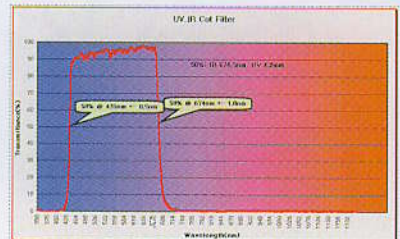


Second generation Ion sources such as the EPS (Enhanced Plasma source) produces excellent layer properties. The source is designed for easy maintenance and maximum stability. It is one of the parameters to get reliable results from your production tool.



EPS®

Low Band Shift ($\leq 0.002\text{nm}/\text{Degree C}$)
 Low Absorption
 High Repeatability ($\leq + - 1\text{nm}$ @600nm)
 In the R&D lab new developments are tested and demonstrated.



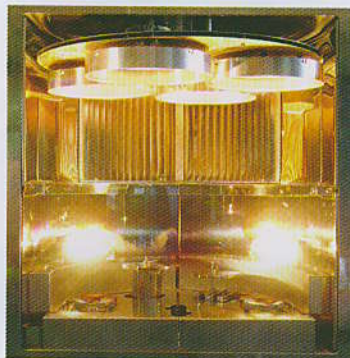
■ The Specification...

- Description Optical Coating Chamber
- Type Front Load Box Coater
- Chamber Diameter \varnothing 1200 × 1300H
- Model *mars 120* Series

Combinable components

General

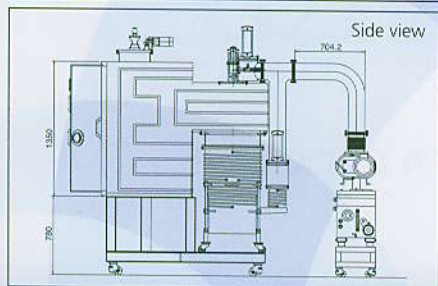
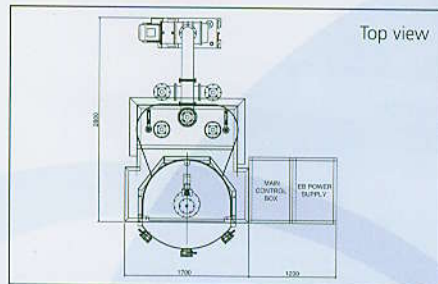
- Rotary pump : 350 m3h-1 1set
- Mechanical booster pump : 1435 m3h-1 1set
- Diffusion pump with baffle : 22" 2sets
- Valves
 - Main valve : 22" 2sets
 - Roughing valve : 1" 1set, 6" 1set
 - Fore line valve : 6" 2sets
 - Vent valve : 1" 2sets
- Halogen lamp : 0 to 350°C max
- Substrate rotation : 0 to 35rpm
(soft start, soft stop)
- Vacuum gauge : display & control
- Thin film deposition controller



Optional

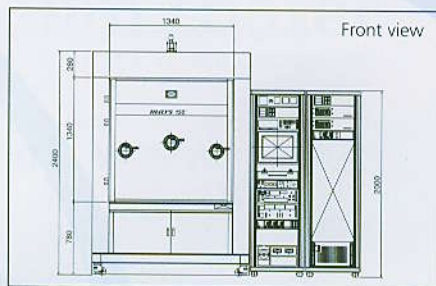
- Optical monitor & controller
- Ion beam source
- Electron beam source(Co-deposition)
- Chiller
- Touch screen control system
- Others

■ Dimension



User Utility

- Power consumption : \varnothing 3x400V 50/60Hz 50/60kW
- Compressed air supply pressure : 5~8kgf/cm²
- Cooling water supply
 - Pressure : 3~4kgf/cm²
 - Temperature : 18 to 25°C
- Oil drain line



www.high-vacuum-service.com

European agent



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