

**BALZERS BA710 COATING MACHINE**

SL NR	MACHINE PARTS	
1	<b>Calotte</b>	<b>Calotte system</b> : Dome <b>Dome rotation speed adjustable</b>
2	<b>Pumping system</b>	<u><b>Ultimate pressure :</b></u> We are get in < 2x10 <sup>-5</sup> mbar in 2Hr 30Min <b>Fore – vacuum</b> : DUO 170 PUMP <b>High - Vacuum</b> : Oil Diffusion pump DIFF 5000 <b>Baffle</b> : Chilled water cooled
3	<b>Valves</b>	<b>Bypass valve</b> - V52P <b>Foreline Valve</b> - V52P
4	<b>Electron beam gun:</b>	<u><b>Electron beam evaporator:</b></u> <b>Model</b> : Balzers <b>Power</b> : Max. 6 KV <b>Crucible</b> : Moly liner 4 Pocket EB gun (7cc each volume) <b>Remarks :</b> i) <b>Beam deflection Y-Axis working / X-Axis not working</b> ii) <b>During evaporation high voltage tripping problem</b>
6	<b>Thermal Evaporation Source</b>	<u><b>High power thermal-resistance source:</b></u> Single-Boat <b>Power</b> : Max. 4.4 KW
7	<b>Glow Discharge</b>	<b>Glow Discharge current</b> : 0 – 100 mA <b>Glow Discharge valve</b> : RVE 016
8	<b>Substrate heater</b>	<u><b>Heater type:</b></u> Top side Balzers make tubular heater <b>Substrate temperature</b> : 300°C <b>Controller model</b> : Eurotherm 2404 With 4 x 16 Segments

9	<b>Coating thickness measuring device</b>	<b><u>Quartz Crystal</u></b> : Sensor Head Six-fold Quartz Crystal <b>Model</b> <b>Crystal head</b> : Maxtek SH6 <b>Deposition controller</b> : Telemark MDC 860
10	<b>Process Gas</b>	<b><u>Oxygen Gas inlets with flow regulators:</u></b> <b>Gas inlet direct in the chamber</b> <b>Gas dosing valve</b> : RME 010 <b>Valve controller</b> : RVG 040
11	<b>Electrical supply</b>	<b>Mains voltage</b> : 3 x 400V <b>Frequency</b> : 50Hz
12	<b>Water Flow rate</b>	<b><u>Cold water:</u></b> <b>Inflow pressure</b> : 3 – 4 bar <b>Inflow temperature</b> : 22 -32°C