

GALILEO VACCUM SYSTEMS (V316/P)

Technical Specification

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1. Materials

Polyester (PET) :	12-60 μm
Biaxially Oriented Polypropylene (BOPP) :	20-80 μm
CPP :	25 – 80 μm

The machine is also able to metallize Low Density Polyethylene (LDPE), Polyamide (PA) and Cellophane with thicknesses depending upon the specific material and the tension range of the machine. All materials must be suitable for vacuum metallizing.

2. Reels dimensions

Max. metallising width :	1650 mm
Min. metallising width:	800 mm
Max. diameter:	950 mm
Internal core diameter:	152 mm

3. Process

3.1 Evaporation

Deposited material:	aluminium
Recommended degree of purity:	99,8%
Diameter of the aluminium wire	1,6 mm
Boats number:	19
Boats dimensions:	120x35x10 mm
Boats material:	Intermetallic sintered

3.2 Winding system

Maximum speed:	720 m/min
Minimum speed:	90 m/min
Tension range:	3-65 kg
Acceleration and deceleration time at max. speed:	30 s
Process drum diameter	500 mm

3.3 Pumping system

Metallizing chamber		
Type	Nominal flow rate	No.
Diffusion pumps	50000 l/sec	2
Roots pumps	5500 m3/h	1
Polycold		1
Rotary piston pumps	Kinney 505 m3/h	1
Winding chamber		
Type	Nominal flow rate	No.
Roots pumps	13000 m3/h	1
Roots pumps	5500 m3/h	1
Roots pumps	2400 m3/h	1



Polycold		1
Rotary piston pumps	<i>Sogevac SV630B 755m3/h</i>	1
Guard chamber		
Type	Nominal flow rate	No.
Roots pumps	<i>2400 m3/h</i>	1
Roots pumps	<i>1000 m3/h</i>	1
Rotary piston pump	<i>Kinney 505 m3/h</i>	1

4. Utilities

4.1 Electrical feeding

Tension :	<i>400V</i>
Frequency:	<i>50Hz</i>
Phase:	<i>3</i>
Wires	<i>3 + ground</i>
Max. absorbed power (approx.)	<i>270kW</i>

4.2 Cooling water

Flow rate (approx.): *300 l/min*

Inlet temperature: *15÷25 °C*

Inlet pressure (for free outlet): *3 kg/cm²*

Max.heat load to remove: *220 kW*

**The water quality must be such as to prevent dirt and corrosion in the cooling system.
(Recirculating system recommended).**

Typical water specifications

Water hardness: *6-8 °D*

CO₂ content: *Max 15 mg/l*

Cl content *Max 20 mg/l*

Particle size: *Max 100 μ*

Particle concentration: *Max 10 part./m³*

Ph: *6,9-8,2*

Conductivity: *Max. 500 μS/cm*

4.3 Compressed air

Pressure:	6-7 kg/cm ²
Consumption (average):	0,7 Nm ³ /h
Peak consumption:	50 Ndm ³ /s

5. Dimensions

Width:	7 m
Length (with opened carriages):	15 m
Height:	3,2 m
Approx. weight:	42 t



<https://youtu.be/oLv2u9jxsk>









