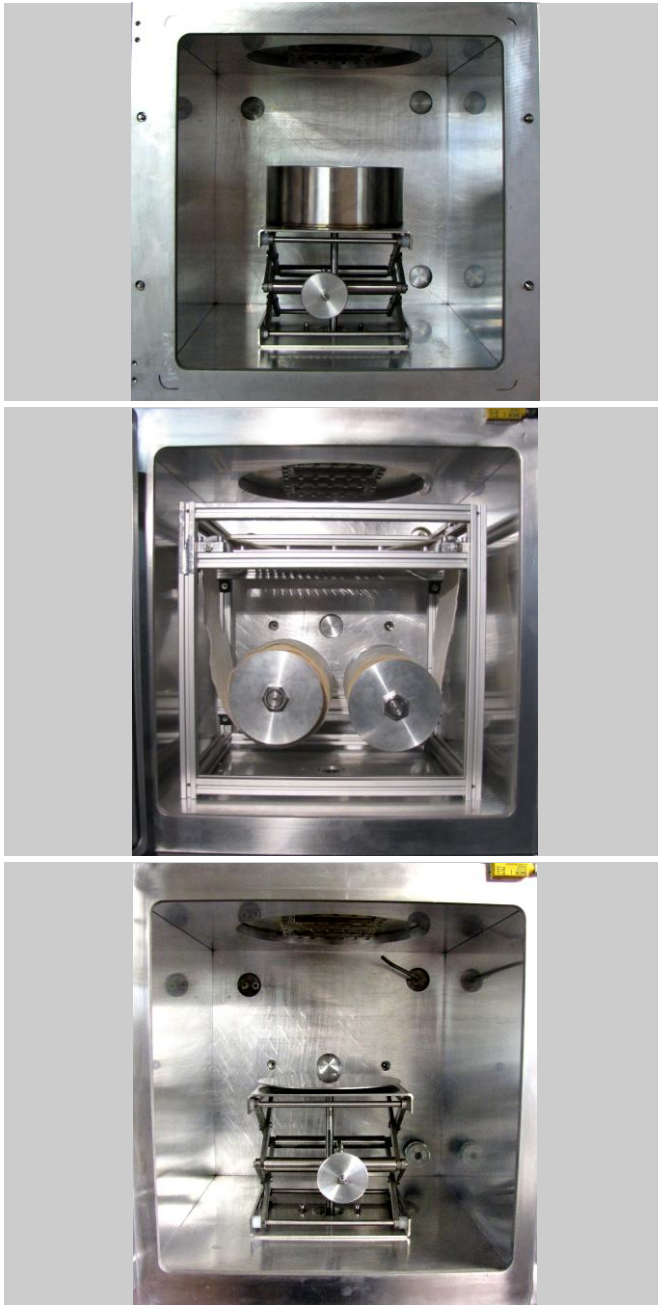


**LA 400 – Low pressure laboratory equipment**



**Variability of the system**



**LA 400**

Equipment is used to generate plasma in vacuum. Plasma is generated by means of microwave source.

**Standard equipment content**

- chamber volume 64 l
- 3 – 4 MFC 100/200 sccm
- touch display control in manual mode

Power supply	3 x 230 V/ 400 V
Mains frequency	50 Hz

**SurfaceTreat a.s.**

Power input	6 kW
Plasma source:	Pulsed microwave according to options
<ul style="list-style-type: none"> <li>• maximum output power</li> </ul>	1 kW
Recipient dimensions	400 x 400 x 400 mm
Cut-off pressure	in dependence on the used vacuum pump
External conditions according to ČSN 33 2000-3	standard workplaces
Connectivity of working gases	6 mm Swagelok
Type of protection	IP 20
Options	<ul style="list-style-type: none"> <li>• mixing system for powder or granulates with variable rates 6 - 212 min<sup>-1</sup>, volume 2,5 l (typical example 250 – 350 g of PE powder with 350 µm particle size)</li> <li>• roll – to – roll system for foil or textile treatment (rewinding speed 0 – 20 mm/min); maximum width of the cloth roller 130 mm, recommended width up to 105 mm. Length depends on the textile thickness, maximum package diameter is 215 mm at minimum diameter of inner roller 25 mm (typical example - nonwoven fabric with thickness 3 mm - package length 10 m)</li> <li>• rotating disc, diameter 200 mm for homogenous treatment of plastic products with variable rates 6 - 212 min<sup>-1</sup>.</li> <li>• vacuum pump - connectivity DN 40 ISO-KF</li> <li>• working pressure regulators</li> </ul>
microwave source	<ul style="list-style-type: none"> <li>• pulse MW generator with fixed signal 50 Hz - source (MWG-850-50)</li> <li>• pulse MW generator with adjustable signal - source (MWG-850-AS)</li> </ul>

- Equipment is suitable for testing and development batch processes and can be used in **research institutes, universities, small productions or laboratories.**
- Application in the area of automotive, machine engineering, chemical industry; for medical purposes, etc.