

**BOCO**  
PARDUBICE



# **BOCO PARDUBICE MACHINES**

## **SILICONE EXTRUSION LINE**

## EXTRUDER FOR PROCESSING OF SILICONE

### BASIC TECHNICAL DATA:

EXTRUDER TYPE	EB-S 75	EB-S 90
Screw and barrel diameter	75 mm	90 mm
Extruder output	40-320 kg/h	80-420 kg/h
Main power output	30 kW	37 kW



All of our extruders are equipped with a feed roller for ideal picking up the silicone compound. Our barrels and underhopper parts are lined and thereby we reduce costs of refurbishing our machines.

## VERTICAL HOT-AIR VULCANIZATION OVEN

**Vertical hot-air vulcanization oven** is designed for vulcanization of silicone profiles and hoses. This type of oven enables a continuous vulcanization process even when the product passes very quickly through the oven. The product to be vulcanized enters the oven through the upper opening, then passes through the vertical heated shaft where the vulcanization takes place and then exits through the lower opening. The shaft is designed as an insulated split cylinder. The advantage of this solution is easy checking and cleaning of the oven inside.

The entire heated shaft can then be positioned in height by means of a lifting gearbox located directly on the mounting leg of the machine.

To optimize temperatures of the production process and reduce energy consumption, the oven is equipped with an „IRIS“ shutter at both the inlet and outlet. The shutter allows very tight surrounding of the passing product and prevents unwanted heat leakage. The result is steady vulcanization and excellent dimensional stability. Due to the vertical orientation, there is no contact between the product and the oven surface when the product passes through the oven.



### BASIC TECHNICAL DATA:

Maximum through diameter	300 mm
Through length of the oven	1 200 mm
Power input	36 kW/ 95 A
Maximum operating temperature	800 °C
Power voltage	3 x 230 V/400 V

## HOT-AIR VULCANIZATION TUNNEL

**Hot-air vulcanization tunnel** is designed for vulcanization of solid and foam silicone profiles.

The equipment guarantees homogeneous cross-linking of the silicone compound throughout the entire cross-section of the product. The principle of its operation is based on the circulation of hot air along the passing profile. The tunnel is designed as a modular unit, made up of sections with a length of 2 m. Therefore, configurations with functional lengths of 8 m, 10 m, 12 m, 14 m and 16 m can be supplied.

Each section contains two zones with different speeds of hot air flow:

- The first zone is the outer zone, where the air circulates at a low speed
- The second zone, the inner one, where the air circulates at high speed

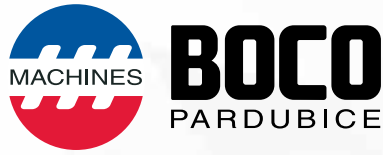
The speed and temperature of the hot air can be set separately for each 2 m section. Thanks to this modularity, the tunnel can be optimally adapted to the customer's production range. The temperature of the air inside the oven can be set in the range of **20-350°C** and its speed can be adjusted from **0 to 50 m/s**, depending on the profile geometry and the type of silicone compound used.

The new technology of the high-speed hot air vulcanization oven presents many advantages, from low environmental impact, both in terms of pollution and energy savings, to increased work safety and high quality of the finished product.

### BASIC TECHNICAL DATA FOR 12 M TUNNEL :

Through length	12 000 mm
Maximum through width	180 mm
Maximum through height	75 mm
Installed power input	75 kW
Actual operating power of the already heated tunnel	ca. 40 kW
Maximum operating temperature	350 °C





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The company BOCO PARDUBICE machines, s.r.o. has more than 25 years of tradition with a focus on the production of machinery and equipment for the plastics and rubber industry.

Its technological background and range of offered professional services make from this firm one of the leading manufacturing companies in the plastics and rubber industry in the Czech Republic and the EU.

Contact details are available on our website

**[www.boco-extruders.eu/contact](http://www.boco-extruders.eu/contact)**

**We also produce:**



Recycling lines



Regranulation lines



Compounding lines



Extrusion lines



Screws and barrels



Thermal insulation covers



Single-screw extruders



Twin-screw extruders



Laboratory extruders



Wheel clamps for cars and trucks



Design and production of tools for extrusion (heads, nozzles etc.)