

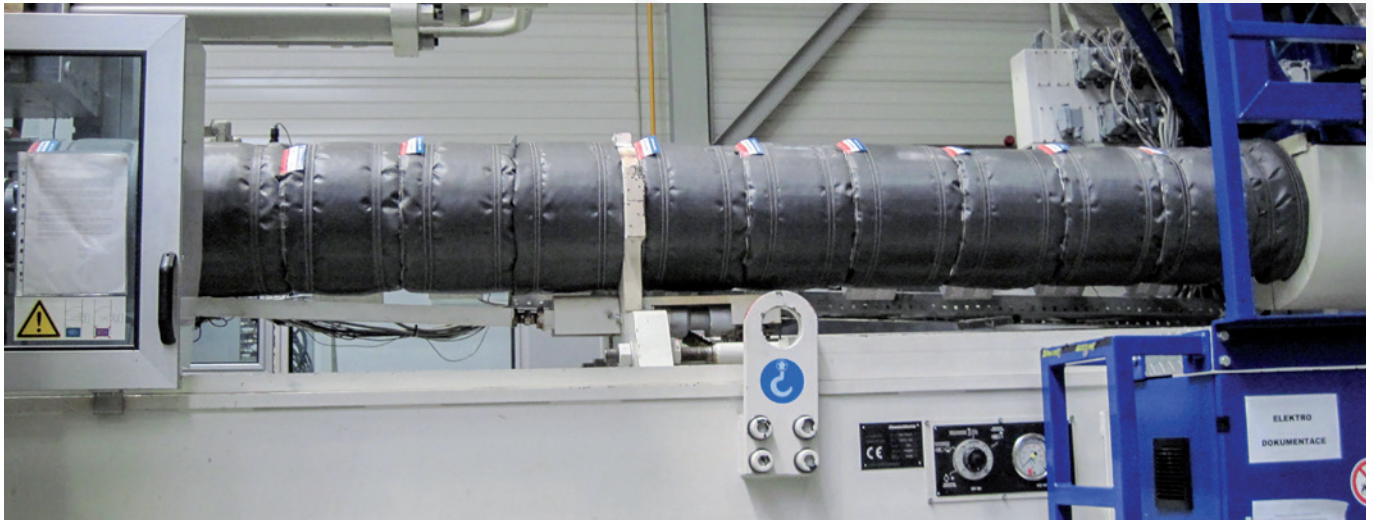


**BOCO**  
PARDUBICE



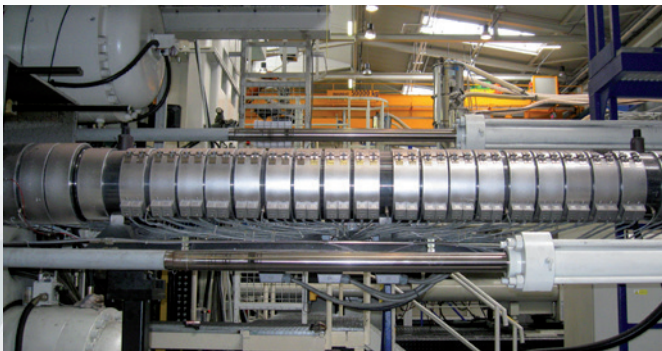
**BOCO PARDUBICE MACHINES**  
**THERMAL INSULATION COVERS**  
**FOR MACHINES**

**THERMAL INSULATION COVERS** for insulation of machines and technologies for injection moulding, extrusion of plastics and rubber, hoses, pipes, pipelines, furnaces, etc.



**BENEFITS OF THERMAL INSULATION COVERS :**

- LOWER ENERGY CONSUMPTION – up to 60 % compared to non-insulated machines.
- LONGER LIFETIME OF HEATING ELEMENTS – by reducing the number of heating cycles during production.
- REDUCTION OF AMBIENT TEMPERATURE in production areas.
- REDUCTION OF SURFACE TEMPERATURE of insulated machine parts.
- INCREASED WORK SAFETY – protection of the operator not to get burned by hot machine parts.
- LOWER DUST in working environment.
- QUICK RETURN ON INVESTMENT – from 3 months (depending on machine temperature and type of production).
- QUICK ASSEMBLY AND DISMANTLING – easy handling.
- MANUFACTURING ACCORDING TO THE CUSTOMER'S NEEDS AND REQUIREMENTS.



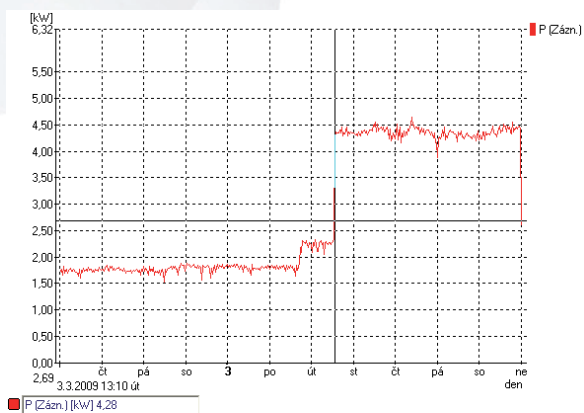
**IT IS COST EFFECTIVE TO INSULATE ANY MACHINE/EQUIPMENT WITH A WORKING TEMPERATURE ABOVE 100°C!**

In the production of plastic products with using the injection moulding machines, the working parts of the machines (barrels, screws) are tempered to the requested temperature for the processing of the specific material. As these are usually continuous operations, the cost for energy needed to temper the machine is a significant part of the production cost. To reduce the cost for power consumption, we offer an installation of thermal insulation covers on heated parts of your machines.

## MEASUREMENT PROTOCOL

Measurement protocol carried out in a specific production with three extrusion lines.

Graf P od 25.2. do 8.3.



Four days of extrusion lines' operation with the insulation and four days of operation without the insulation were evaluated for the comparison. The result of the measurements is a demonstrable and significant energy saving.

Type of operation	Power consumption	Saving
Thermal insulated	169,547 kWh	40,53 %
Non-insulated	418,279 kWh	100,00 %
<b>Difference; saving</b>	<b>248,732 kWh</b>	<b>59,46 %</b>

## APPLICATIONS OF THERMAL INSULATION COVERS:

- moulding injection machines
- extrusion flat heads
- pipelines
- hoses and pipes
- turbines and generators
- extruders
- furnaces and drying kilns
- melt filters
- extruding tools

## TECHNICAL PARAMETERS

The thermal insulation cover is made of a thermal insulation fabric treated with a special coating up to 500°C. The lower layer is made of glass fibre with heat resistance up to 600°C.  
 Cover filling – Insulfrax.  
 Cover thicknesses – 20 or 40 mm.  
 Cover dimensions – according to the actual insulated part.  
 Colour shade – grey.

## PROTECTION OF THE MACHINE AND THERMAL INSULATION COVERS AGAINST PLASTIC LEAKAGE

Protection by **teflon sleeve**.

In case of material leakage from machine, the spilled plastics can be easily removed.

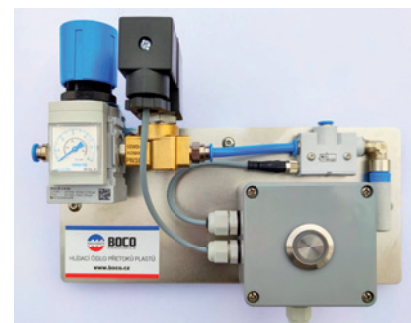
Protection by **HSP sensor against plastic leakage**.

Installing the HSP sensor **prevents**:

- soiling of the barrel
- devaluation of band heaters
- devaluation of thermal insulation covers (if installed on the machine)
- machine downtime for cleaning and exchanging heating belts, when the machine cannot be in operation

By installing the HSP sensor, **significant financial savings** can be achieved mainly for:

- purchasing of new band heaters and thermal insulation covers
- time spent on cleaning, dismantling and assembling new band heaters
- downtime during machine repairs







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

Our technological background and range of offered professional services ranks us among 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



Reggranulation lines



Compounding lines



Extrusion lines



Single-screw extruders



Twin-screw extruders



Laboratory extruders



Screws and barrels



Wheel clamps for cars and trucks



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