

BKT IR-/ Infrared Heating System



1. What goals can be achieved with the use of the BKT IR-/ infrared heating system?

Reduce energy consumption and costs in production processes – improve the user's competitiveness.

2. How do the BKT IR-/infrared heating system work?

To prepare the melt in the plasticizing cylinder, infrared rays ("optical waves") are directed onto the plasticizing cylinder in a targeted manner and with high temperature control accuracy. The efficiency (greater than 99%) results in an incredibly high energy saving effect.

3. Where are the areas of application for this technology?

The IR heating systems are used on plastic injection molding machines and other plastic processing machines (like extrusion lines, extrusion blow molding, compounding extr., ...)

4. Can the installation be carried out if "standard" (ceramical) heating tapes are to be replaced with BKT IR-/infrared heating system?

Replacement is usually possible as a "plug & play" solution.

5. Overview and information showing the advantages of IR heating systems:

The surface temperature and thus also the temperature radiation and energy loss "to the outside" are greatly reduced compared to conventional heating tape systems. Depending on the type, the IR heating system generate low surface temperatures of max. 65°C.

Heating-up times are reduced by up to 50%, thus extending machine running times.

Depending on the processing machine, the type of plastic being processed and the respective process, the user achieves a high level of heat transfer using the IR heating system...

...potential energy savings of 20% to 70% in plasticizing and processing the melt for injection molding applications!

