



For heavy-duty applications PURATEK® builds conveyors with jacket, shaft and spiral cooling.



COOLED OR HEATED SCREW CONVEYOR

Conveying process often requires also cooling or heating of the treated materials at the same time. PURATEK-exchange® unit is a conveyor with jacket, shaft and spiral cooling or heating. Especially designed for heavy-duty applications.

The performance-optimized cooled or heated screw unit, convinces with a high heat transfer coefficient, at simultaneously large conveying rate. These properties are achieved by optimization of conveyor screw unit geometry, maximizing available thermal exchange surface.

The cooling/heating medium is guided in precisely defined and flow-optimized channels. The cooling or heating medium flows through the conveyor/mixer jacket, screw shaft and screw blades. A wide variety of cooling and heating media can be used: water, steam, thermo-oil, Glysantin® mixture, etc.

When designing PURATEK-exchange® unit, the most advanced calculation methods are employed. This is advantage, especially when the cooling or heating screw must operate in narrow

range limits, such as a small temperature difference between the cooled and heated medium.

For corrosive, chemically aggressive and extremely abrasive materials to be conveyed and cooled or heated at the same time, special construction materials are used. PURATEK-exchange® unit is thereof mostly manufactured from high-quality stainless steel up to Duplex steel.



PURATEK®
exchange