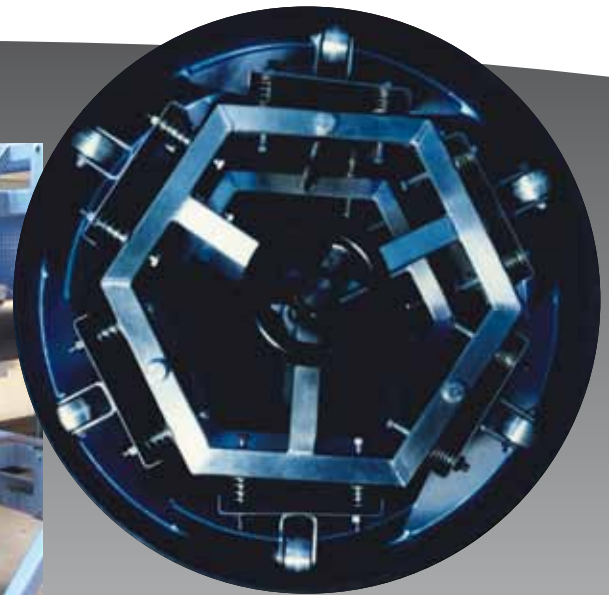
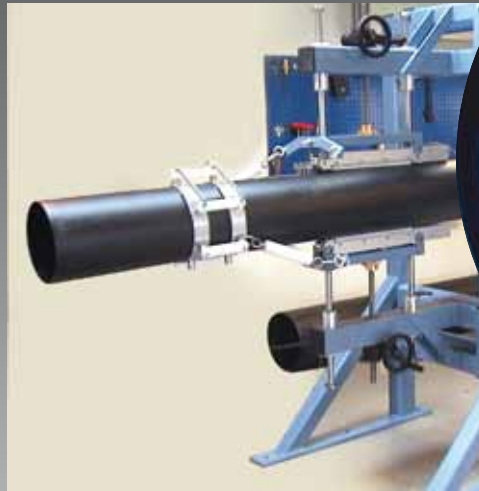


Product Information

PipeTEC - Corona Treatment of Jacket Pipes



PipeTEC

Corona Treatment of Jacket Pipes

The PipeTEC is designed for treatment of the inside surface of jacket pipes for optimised adhesion of PUR foam which is needed for insulation of the pipe core. The PipeTEC must be fully integrated into an extrusion line and ensures a very high level of surface treatment of the entire inside surface.

The purpose of surface treatment of polymer-based materials is to increase surface wettability through electrical discharge. The low surface energy of polymer-based substrates – like PE and PP pipes, often lead to poor adhesion properties.

It is commonly known that an untreated inside pipe surface will result in "air pockets" when foaming, which will lead to condensation and eventually result in pipe failure when in use. The Tantec PipeTEC is specially designed for optimising the adhesion properties of the inside surface of jacket pipes prior to foaming with PUR foam.

Tantec offers two different types of

inside electrode systems depending on pipe size and tolerances. The stainless steel shaped blade electrodes offer the ultimate treatment of the inside surface, but for larger pipes with large tolerances the stainless steel brush electrodes is a better choice.

Magnetic holding systems for keeping the inside electrode system in place are offered in combination with stainless steel shaped electrodes. For dimensions up to OD 630 mm. Brush electrodes and larger shaped electrodes must be kept in place using a metal wire from the extrusion tool or something similar.

The PipeTEC is normally integrated right before the saw.

TECHNICAL DATA

Features:

High power treatment

Easy to operate

Fully integrated into extrusion line

Flexible design

No ground reference

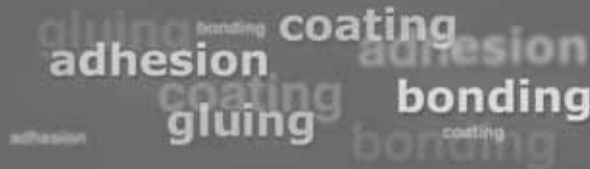
Magnet holder system

Pipe dimensions

Dual polarity

TechnicalData

Plasma & Corona Treaters



Features:

High power treatment

Dedicated electrodes for each single pipe dimension ensures optimum treatment results.

Easy to operate

Just install the correct electrode dimension.

Fully integrated into extrusion line

Fully integrated into the extrusion line, before the saw.

Flexible design

Same set-up for all pipe dimensions.

No ground reference

The treatment follows even without the need of a grounding of the inside electrode.

Magnet holder system

Inside electrodes up to OD 630 can be kept in position by a magnet holder system.

Pipe dimensions

All pipe dimensions from 75-2100 mm available.

Dual polarity

Offers 2 time treatment for optimised results.

| Technical Specifications | PipeTEC |
|-----------------------------|--|
| Mains voltage and frequency | 230 VAC 50/60 Hz |
| Output voltage/power | 2 x 40 kV/max. 2000 Watt |
| Power supply | HV-X plasma generator series |
| Line-Speed | 0.1-10 m/min. |
| Treatable materials | PE, PP and others |
| System type | Table top for full integration into extrusion line |
| Exhaust | Ozone filter system |
| Regulation compliance | CE - ROHs - WEEE |

