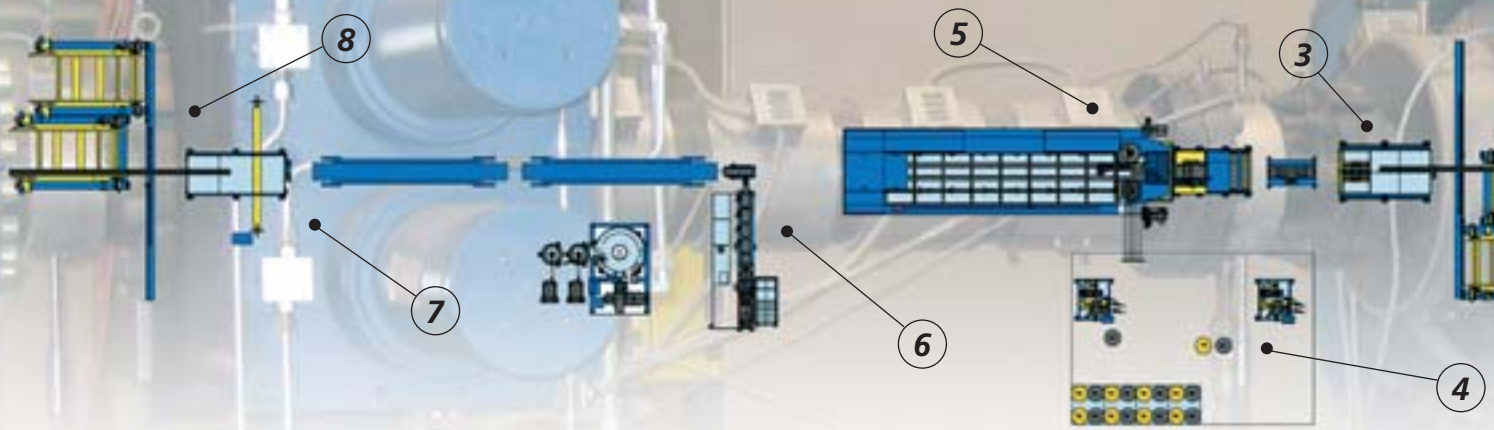


WehoPUFlex Technology

Production line for flexible PU insulated pipes

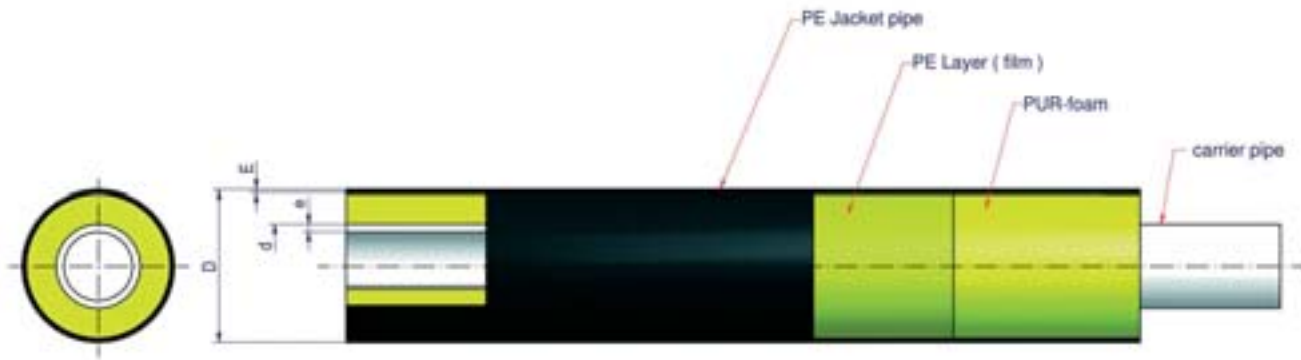


The needs of district heating/cooling pipes has been growing rapidly. KWH Pipe Technology has delivered several district heating pipe manufacturing lines around the world.

Flexible PU insulated pipes are manufactured on a continuous manufacturing line ranging from 20 up to 110 mm.

The continuous pipe foaming process is one of the relatively new advanced production techniques. Inner pipe, the carrier pipe (PEX, PE, etc.) is continuously fed into a molding section, together with a polyurethane foam mixture that is applied onto a film. An outer protective casing pipe is subsequently applied on the polyurethane insulation layer. Compared to the conventional discontinuous pipe filling technique, the continuous process allows a reduction of the foam filling density and a reduction of the casing pipe thickness that can result in substantial cost savings for the pipe manufacturer.

The continuous pipe foaming technique is used for the production of both rigid and flexible pre-insulated pipes.

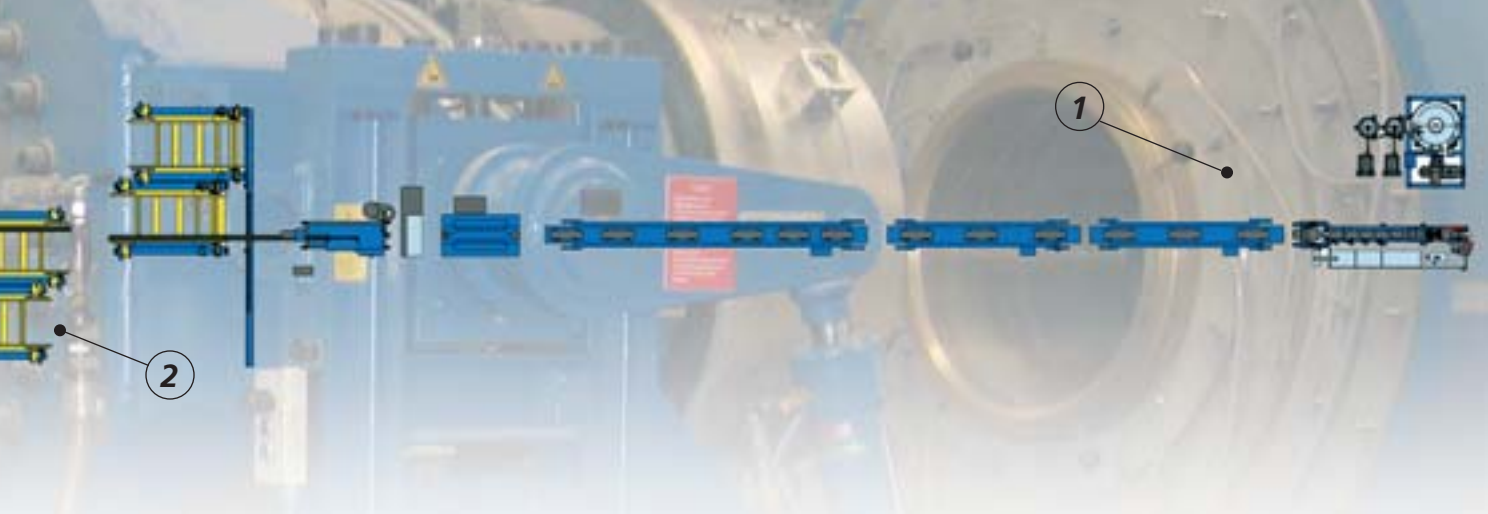


Flexible PU insulated pipes provide a number of benefits:

- Substantial cost savings
- Automated manufacturing
- Continuous production method enables long delivery lengths
- Flexible pipes can be installed directly underground and demands smaller excavations
- Excellent mechanical properties
- Online extrusion ensures practically impermeable, chemical resistant and oxidation free carrier pipe
- WehoPUflex pipes are easy to transport, handle and storage

PU insulated Flex pipes, single

Size d x D mm	PE or PEX Carrier Pipe d mm	PE Jacket pipe D x E mm
20/78	20	78 x 2,0
25/78	25	78 x 2,0
32/78	32	78 x 2,0
40/93	40	93 x 2,2
50/113	50	113 x 2,4
63/128	63	128 x 2,7
75/143	75	143 x 3,0
90/163	90	163 x 3,2
110/163	110	163 x 3,2



Continuous flexible PU insulated pipe line

1. Production line for PEX or PE pipe
2. Decoilers for the inner pipe
3. Pipe Feeding Unit
 - brake conveyor
 - carrier pipe centric calibration
 - preheating and temperature control
 - film infeed unit
4. High Precision PU Foaming Plant
5. Double band laminator with carriers and heating temperature control
6. Coating extruder and water cooling
7. Haul-off
8. Coilers



Production line capabilities

Product: Production line for PU insulated flexible pipes

Size range Ø: 20-110 mm

Output: 1,5-5 m/min

Structure: Carrier Pipe: PE, PEX or steel
 Insulation: PU
 Jacket Pipe: PE-LD



WehoPUFlex Technology

*Production line for flexible
PU insulated pipes*



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