



JANSEN geotwin

The new generation double U loop

JANSEN

Geothermal Energy: The resource «in» your property

Geothermal heat is an inexhaustible source of energy and makes you independent from fossil fuels. Jansen is your expert when it comes to making geothermal energy usable for heating and cooling.

Geothermal energy is accessible on your own property and ensures long-lasting security of energy supply. The use of ground heat is not only clean, invisible, and free of odour or noise emissions, but also protects the environment sustainably.

The JANSEN geotwin heat exchanger probe is usable over generations and represents an efficient and resource-saving solution for today and tomorrow. Jansen as a Swiss manufacturer and the product advantages of the JANSEN geotwin promise the highest quality and enable the drilling company to fast and safely realize your geothermal installation in every situation.

Advantages

- Highest efficiency
- Heating and cooling in one and the same system
- Low operating costs
- Minimal space requirements
- Clean and silent

Our Quality. Your Peace of Mind.

Technical data

The JANSEN geotwin geothermal probes are manufactured of high-quality PE 100 RC (= resistant to crack) material of the latest generation using innovative production technology. The products are certified as per the latest quality standards and outreach the requirements of current industry standards, such as SIA 384/6, ÖWAV regulation sheet 207 and VDI4640. The factory welded probe foot is delivered with an individual factory certificate according to EN 10204. The serial number allows to identify each probe and ensures complete traceability, from the raw material used to the construction site.



online factory certificate

Additional components, such as grouting material, injection tubes, antifreeze, manifolds, fittings, connection piping, and special tools, complete the JANSEN system with numerous extension possibilities.

For further information about available probe lengths, technical data, and accessories, please see our current catalogue. Please also do not hesitate to contact our technical staff, if you have questions about possible applications.

Pipe raw material*	PE 100 RC (Polyethylene resistant to crack) according to PAS 1075
Operating temperature range	-20° C to +40° C
Certification	SKZ A530 - HR3.26
Colour	black
Material density	0.95 - 0.97 g/cm ³
Pipe rugosity	0.03 mm
Recommended minimum installation temperature	-10° C

* can also be produced of high-temperature-resistant PERT raw material, if desired

Dimensions

Dimension	Nominal pressure	Standard lengths	Probe foot Ø	Minimum bend radius @ 20° C
32 x 2.9 mm SDR11 / S5	PN 16	60 - 170 m	101 mm	0.64 m
40 x 3.7 mm SDR11 / S5	PN 16	100 - 300 m	115 mm	0.80 m
40 x 4.5 mm SDR9 / S4	PN 20	200 - 325 m	115 mm	0.80 m



bwp

Bundesverband
Wärmepumpe e.V.



**Erdwärme Gemeinschaft
Bayern e.V.**



GEOTHERMIE
SCHWEIZ SUISSE SVIZZERA

JANSEN geotwin: The new generation double U loop

The unique, patented double winding, which inspired to name the geotwin probe, offers significant advantages:

Fast and easy mounting onto the decoiler

Each coil consists of one complete probe loop.

Smooth and consistent decoiling

The double winding allows smooth and consistent decoiling and for this reason a fast and uncomplicated installation into the borehole.

1

Externally located pipe ends

For attaching the probe to the decoiler or filling it: The pipe ends are easily reachable and allow convenient handling.



Safety probe foot in one piece

The clever design without in-between welds enhances stability and hydraulics.

2

Divisible probe foot

The probe foot is divisible and suitable for all common installation techniques. It makes the JANSSEN geotwin also utilizable as a single-u loop. Its slim design is especially convenient when there are large water deposits or when mud-flush-drilling methods are being used. During installation, the water is easily displaced through the intermediate channels.

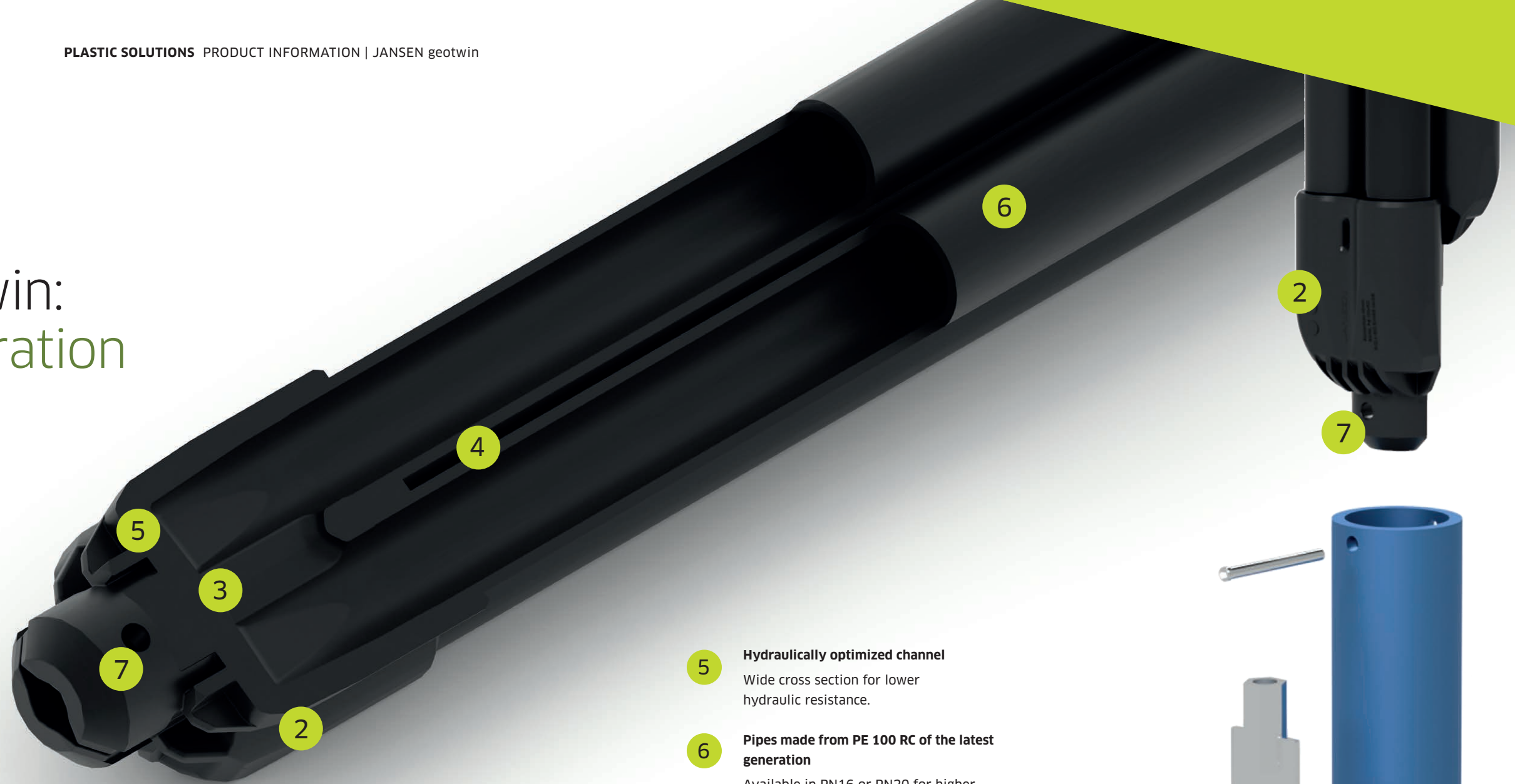
3

Reinforced flanks

With a wall thickness of up to 15 mm for more robustness and higher-pressure requirements up to PN22 our probe foot meets all demands.

In-factory socket welding

This controlled welding process ensures maximum reliability for the connection of the tubes with the probe foot.



5

Hydraulically optimized channel

Wide cross section for lower hydraulic resistance.

6

Pipes made from PE 100 RC of the latest generation

Available in PN16 or PN20 for higher pressure loads.

7

Easy and robust take-up device

The weight take-up is universal. All components can be combined and extended as needed.

a

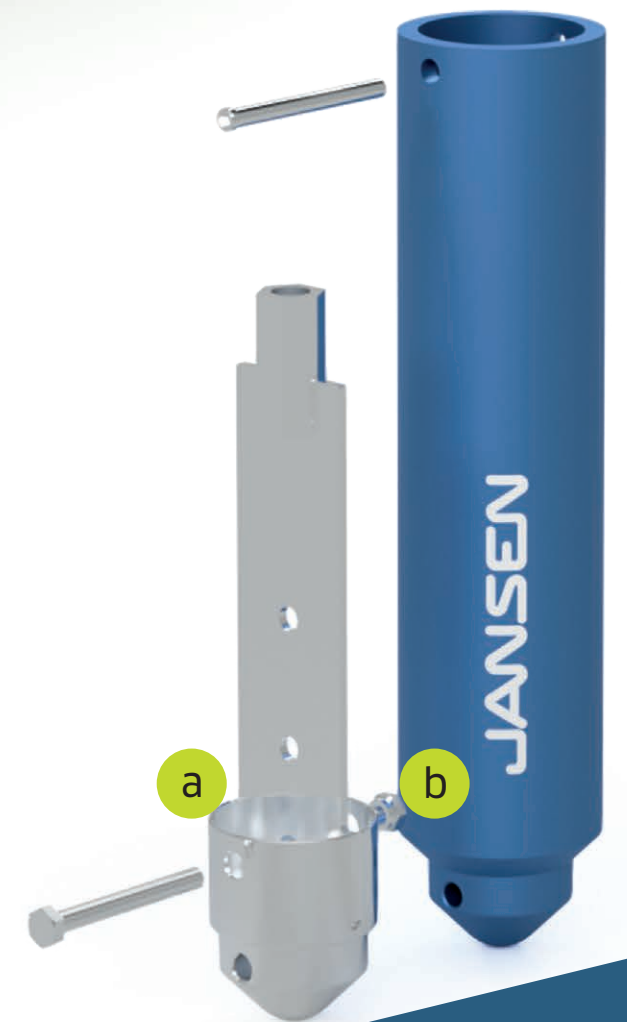
JANSSEN SPS lowering tip

Safe use of a push rod with up to 4 tons of pressure. Well-proven especially for mud-flush-drilling methods.

b

Weights of 10, 20, or 40kg

Slim diameter for an easy installation.



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