INSPIRING TRENCHLESS TECHNOLOGIES

TRACTO-TECHNIK

Pulley for cable connection - guiding of the machine right on target

Front cone - direct/optimal power transmission into the expander

Heavy-duty one-piece casing - without seams or screwed fittings

Flexibly mounted control - minimal wear even with extreme load

Chromium-plated inner and outer casing - for long lasting maximum efficiency

High impact energy

Smooth machine casing - simple recovery of the pipe cracker through the new pipe in limited space

Long and short versions - for a wide range of applications

CRACK DYNAMIC EFFECTIVE

MADE IN GERMANY

GRUNDOCRACK
Dynamic pipe cracking system

Pulling cable | Front expander | PE pipe connection | Pressure hose | Pulling chain

Method

With the dynamic pipe cracking method, old pipes made of stoneware, asbestos and fibre cement, grey cast iron, plastic or plain concrete are shattered and simultaneously replaced by new HDPE pipes (long and short pipes) or PVC-U pipes. Air-driven, modified pipe rammers function as crackers..

The air-driven pipe cracking machine shatters the old pipe while advancing through the old pipe and radially displaces the fragments into the surrounding soil. The bore hole for the new pipe is extended at the same time.

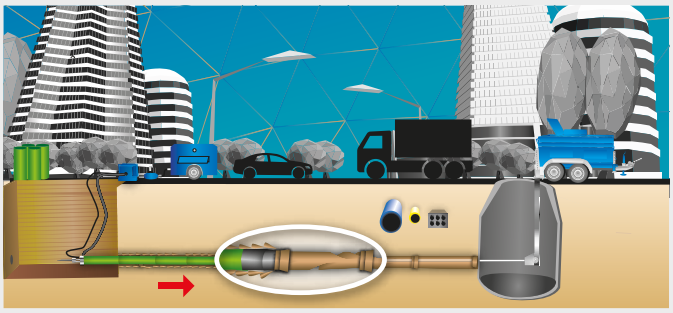
The pulling force of a winch supports the pipe cracker, guaranteeing safe guidance through the given pipe path.

Advantages

- Environmentally friendly, trenchless new pipe installation
- Innovative and fast – avoiding social costs
- Applicable for all kinds of damage, e.g. cracks, misalignment or partial collapse
- No reduction of the pipe's cross section
- Increased capacity by one or two nominal pipe sizes is possible
- Long pipes without sleeves, also as pressure pipe
- Improved bedding of the pipeline due to annular space grouting
- Method approved acc. to the latest standards
- Precise advance calculation
- New pipeline with a long service life > 50-80 years
- Simple, safe and leak-proof

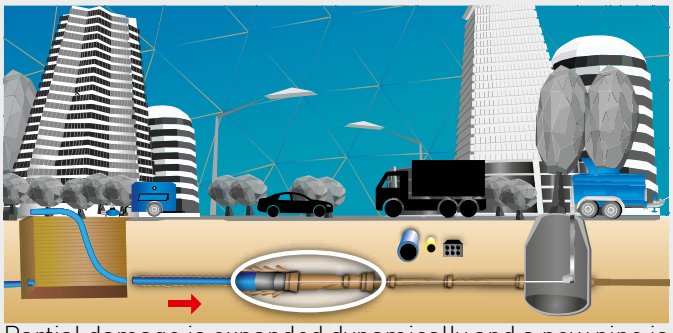
Applications

DYNAMIC PIPE BURSTING



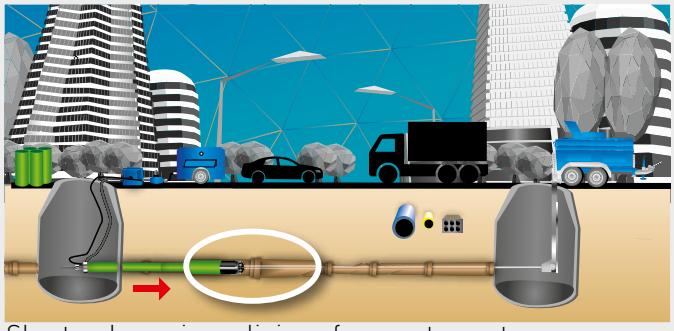
Trenchless renewal in the existing pipe path. Installation of the new pipes with identical or larger nominal diameters.

CALIBRE PIPE BURSTING



Partial damage is expanded dynamically and a new pipe is pulled in simultaneously.

TIGHT-IN-PIPE (TIP)



Short or long pipe relining of concrete or stoneware pipes. The new pipe fits tightly inside the old pipe.

Technical specifications

GRUNDOCRACK	PCM 095	PCM 130	PCM 180	PCG 130	PCG 180	PCG 200	PCG 260	PCG 350
Machine Ø (mm)	95	130	180	130	180	208	280	380
Length (mm)	890	890	1.100	1.460	1.700	2.100	2.290	2.730
Weight (kg)	40	62	175	95	230	395	615	1.180
Upsizing Ø (mm)	175	240	395	240	395	420	530	580
New pipe OD (mm)	140	180	315	200	315	355	450	508
No. of strokes (min^{-1})	540	565	450	320	280	290	310	220
Air consumption (m^3/min)	1,4	2,3	4,2	2,7	4,5	6,5	12	20

Values at 6 bar operating pressure · Subject to change

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