



# RSP CITY 12.

Modern utility line construction with the City 12 Keyhole.



Suction Excavator



## For the perfect Keyhole.

Keyhole technology means that gas pipes, water pipes, power lines or data lines for building connections can be re-laid or replaced from a small circular keyhole without having to dig ditches.

This technology has tremendous advantages. Building connections often involve traffic obstructions and expensive surface repair work. This doesn't have to be!

Gas, water and FTTH building connections are laid from the main line in the road to the building using **keyhole technology**. This is done from a drill hole measuring just 650 mm in diameter. After opening up the road surface, a suction excavator opens up the keyhole as far as the main line, protecting the road surface. The operation of the drilling system and all of the required work for utility line production takes place from the surface.

The advantages of the keyhole procedure are obvious. Freshly-laid road surfaces are not dug up. The round hole does not have any effect on the tension and load-bearing capacity of the ground and the road surface. Only a minimal amount of civil engineering work is required, which avoids follow-on costs resulting from by damage to the road surface.

When the work is complete, the core is inserted again with special cement, avoiding the cost of additional asphaltting work. The adverse effects on traffic are reduced to a minimum.





## City 12 - clever and compact.

The City 12 is a compact working machine that impresses through its extensive technology, expertise and practical solutions. In addition to the standard equipment with a single fan and a telescopic hose carrier with a range of 3.10 m, the development was primarily focussed on the optional circular cutter tool.

With this compact working machine, you are in a position to quickly, effectively and economically create a keyhole. You have all required tools, such as a compressor and water system available on one vehicle. Due to the container that can be folded out sideways, with a volume of 1.1 m<sup>3</sup>, the material that is sucked up can be emptied directly into a big bag or back into the keyhole to fill it again.

The advantages at a glance:

- all of the required tools on one machine
- minimal amount of civil engineering work
- minimal adverse effects on traffic
- sucked-up material and asphalt core are re-used
- less time taken and use of less material saves money
- follow-on costs because of surface damage are avoided



## Perfect Equipment

### Chassis

Chassis	Mercedes Benz Atego
Wheelbase	4,160 mm
Diesel engine	238 PS
Overall measurement	8,000 x 2,400 x 3,070 mm
Unladen vehicle weight	11,300 kg
Gross vehicle weight	12,000 kg

### Suction system specification

Actuation	Hydraulic
max. volume	11,300 m <sup>3</sup> /h
max. vacuum	14,855 Pa
Behälter cyclone	1.1 m <sup>3</sup>
Container discharge	side tipper into big bag
Compressed air system	4.5 m <sup>3</sup> /min, 7 bar
Filter system	24 cartridge filters,
Control system	PLC and radio remote control
Suction depth	10 m*
Suction distance	30 m*

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### Articulated hose carrier

Manufacturer	Palfinger PC 1500 A
Pivoting	190°
Range	3,100 mm
max. lifting power	380 kg
Suction hose	length 4,930 mm, diameter 150 mm

### Additional Equipment

High-pressure water system	160 bar, 25 l/min, 400 l tank
Hose reel	1x oiled air, 1x un-oiled air, 1x high-pressure water
Connections	external hydraulic outlet
Tool Box	additional stainless steel storage box
Container	Side door in container for removal of material

### Core Bore Unit

Height	1360 mm
Diameter drill bitt	650 mm
Weight with drill bitt	360 kg
max. drilling depth	450 mm
max. operating pressure	200 bar

\* Depending on material