

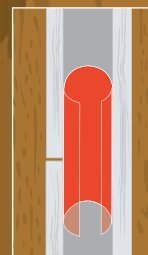
GRP-Lateral
Liner

Joint with short liner
and insert technology

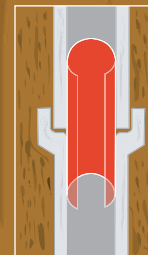
Home
Connection
Repairs

GRP-TOP-HAT

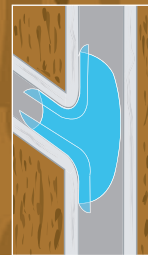
GRP-Short Liner



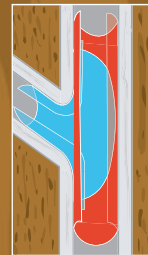
Crack repair with
short liner



Collar repair with
short liner



Joint with insert
technology



Joint with short liner and
insert technology

Cosmic - Sondermaschinenbau GmbH

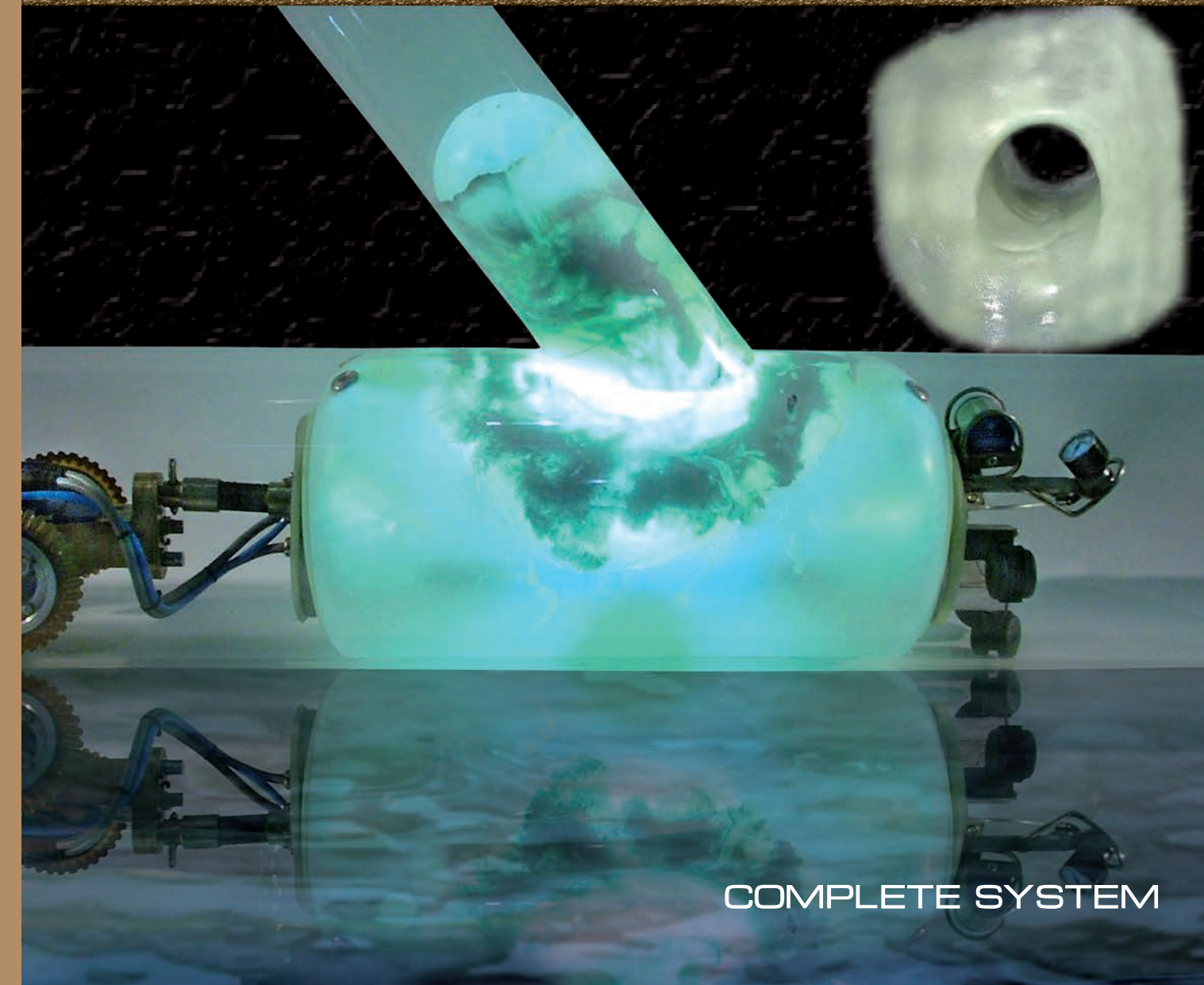
FB-Nr.: FN 157158s • UID-Nr.: ATU42191301 • Handelsgericht St. Pölten
A-3072 Kasten • Steinabruck 35
Tel.: +43 / 2744 / 7004 • Fax: +43 / 2744 / 7004 - 9
E-Mail: c.office@cosmic.at • Homepage: www.cosmic.at



The TOP-HAT complete system is produced by Cosmic Sondermaschinenbau GmbH in Austria. This high-tech company has been involved with the rehabilitation of pipe and sewage systems for over 20 years. Its know-how and numerous patents (international and/or European) as well as its global distribution network have made Cosmic a leading provider of pipe and sewer rehabilitation plants. The company is also active in the field of special machine construction and sells the product TOP-HEAT, a patented boiler using rapeseed, around the world.



Repairs without
the need for excavation



COMPLETE SYSTEM



www.top-hat.at

CASE OF DAMAGE



RECONSTRUCTION



- ▶ Sewage System Repair
- ▶ Isolated Repairs
- ▶ Domestic Systems

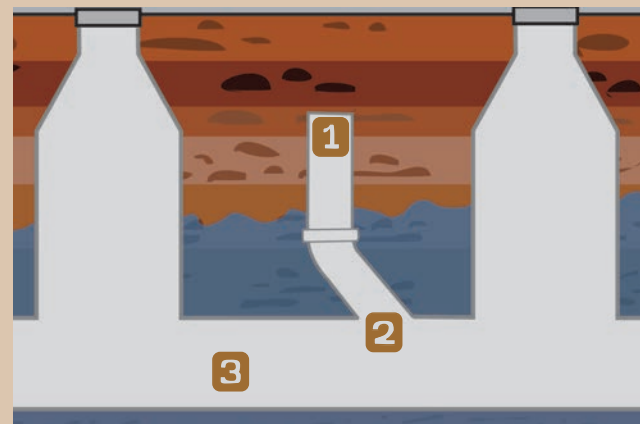
- ▶ Durable results that last for 50 years
- ▶ Material is structurally self-supporting

- ▶ No traffic jams
- ▶ No need for road closures
- ▶ By-pass pumping avoided



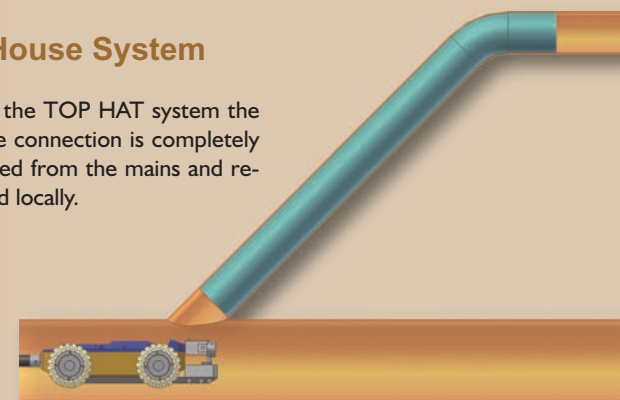
TOP HAT - How it Works

REPAIRS WITHOUT THE NEED FOR EXCAVATION



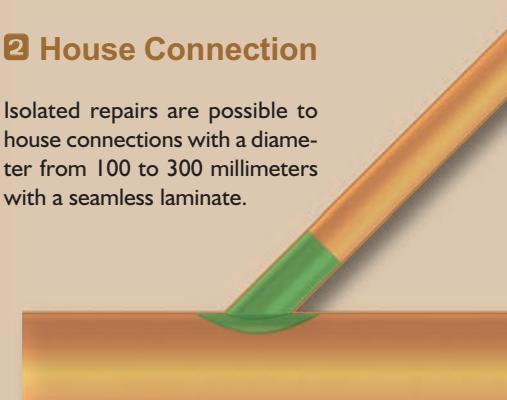
1 House System

With the TOP HAT system the house connection is completely isolated from the mains and repaired locally.



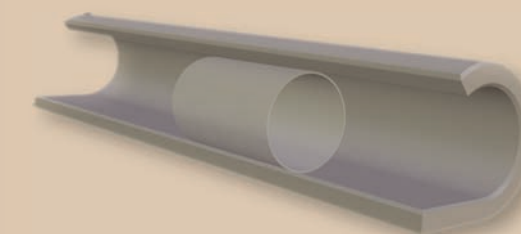
2 House Connection

Isolated repairs are possible to house connections with a diameter from 100 to 300 millimeters with a seamless laminate.



3 Mains Pipe

Isolated repairs of pipes with a diameter between 80 and 900 millimeters by means of part liner - localised repair.

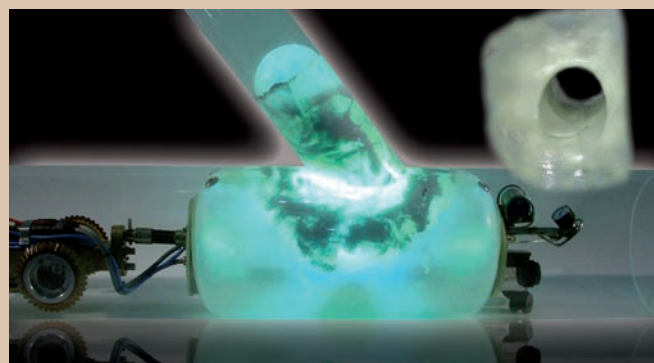


GLASS FIBER LAMINATE (GRP)

Liner and hat system consists of a polyester impregnated glass fiber laminate, which is also used in aviation industry.

An epoxy resin ensures a durable tried and tested bond to the existing pipe or liner.

50 year warranty on materials.



With the glass fiber laminate both "T" and "Y" systems can be repaired. The TOP HAT system material is hardened with UV light and takes only 7 minutes. That is the fastest procedure in the world. The material is environmentally friendly and is constantly subjected to strictest quality controls.



TOP HAT complete system glass fiber laminates are approved and certified.



THE MANY ADVANTAGES OF TOP HAT

Because our glass fiber laminate has the fastest hardening time world-wide (7 minutes), by-passing of existing systems can be avoided in 80% of cases! This eliminates the inconvenience of road closures during repair.

The GRP material is structurally self-supporting and prolongs the life of the existing piping beyond 50 years!



Because of the characteristics of this glass fiber Laminate, repairs can be dealt with in one procedure and at a faster rate than any other material.

TOP HAT is market leader in the USA and with more than 30,000 successful system repairs world-wide!

