

IBAK

IBAK MicroGator Air



The illustrations shown in the brochure may show special equipment that is subject to additional charge

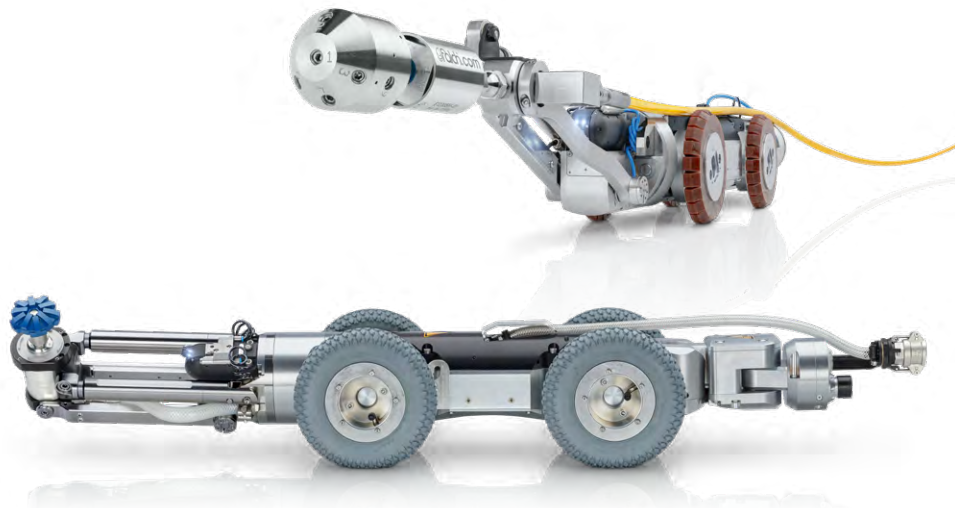
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MicroGator Air – modular and flexible

The MicroGator Air is a main line cutter system, working in the diameter range from DN200 (relined) up to DN800, which is completely embedded in the IBAK MainLite concept.

This concept offers a modular and flexible system that can as well operate IBAK camera tractors T66 and T76 with the related camera options.

With the MicroGator GT Lite, rehabilitation tasks (e.g. lateral connection repair with mortar) can be performed or tough deposits, extensive root penetration or concrete blockages can be eliminated using an attachable ultra high pressure (UHP) nozzle.



Mobile system or vehicle installation

The MicroGator Air is an efficient solution for service contractors who want to combine the advantages of a compact rehabilitation system unit with those of a fully-fledged inspection system. The MainLite winches are available as mobile units (MainLite fit) or for installation in a vehicle (MainLite solid). The IBAK tractors T66 and T76 and the MicroGator Air can be operated with all of them and distances of up to 300 metres can be achieved in pipes.

Mobile System

For the mobile applications the BP100 control unit is used in combination with the KW206/306 cable winch. This allows an easy to handle operation in the field giving a high degree of flexibility for many different cutting applications.



ST100



BP100

KW206/306

Vehicle Installation

For vehicle installation the BS10X control system is recommended to achieve all benefits of comfortable operation. In combination with the MainLite solid cable winch and a built-in hoist an optimized work environment for a mainline cutting unit can be achieved.



MicroGator Air (Specification)

1. Cutting Motor
2. CutterCam with cleaning function
3. 4th axis
4. Tractor extension up to DN600
5. Tractor extension up to DN800 (without picture)







Components of the MicroGator Air

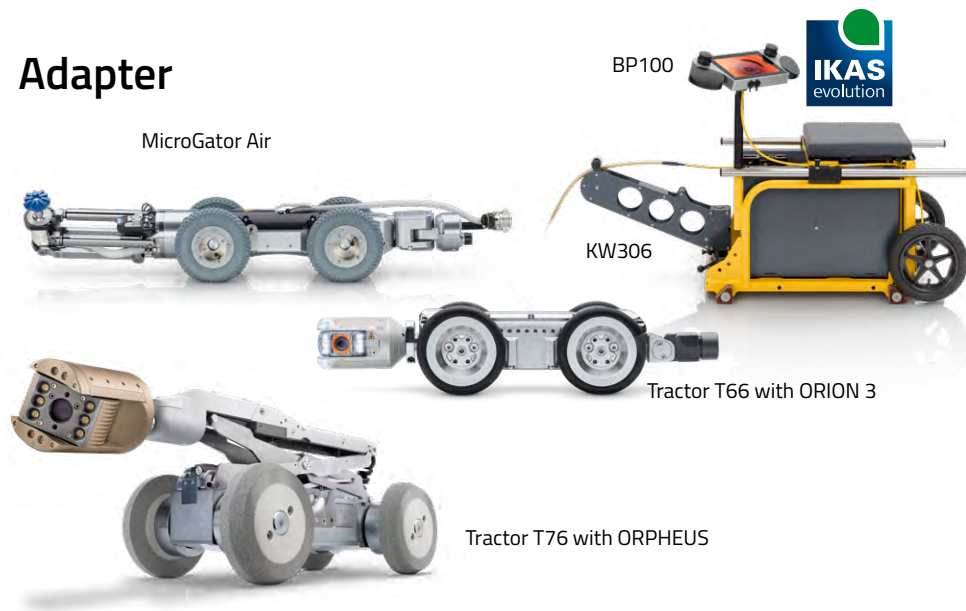
1. MicroGator Air Tractor
2. Cable Winch (KW206/306)
3. Control Unit (BP100 or BS10X)
4. Air Hose Reel



Compatibility with the MainLite CCTV System

- The MicroGator Air is integrated into the IBAK MainLite system. The motor driven cable winch KW206/306 and the control console cab also be used for IBAK inspection systems.
- With the equipment for multifunctional use it is possible to perform all work steps with one equipment set up, independently of any external services.
- The cutter and the camera are controlled with the same joysticks and buttons of the control console.
- The integration of the IKAS evolution software ensures smooth transfer of data from inspection to rehabilitation. So defects are captured during the inspection, rehabilitation measures are planned and the elimination of defects is documented during cutting operations in the same work environment.
- The multifunctional system enables to perform inspection jobs through to rehabilitation work cost-effectively, efficiently and from end to end.

Adapter



Added value

UHP (Ultra High Pressure Water Cutting/Cleaning)

The combination of two optimal procedures opens up new possibilities for the controlled and efficient removal of large-scale, persistent deposits in sewers.

A rotatably mounted cleaning nozzle (e.g. from falch, Hammelmann) is operated on a MicroGator carrier system. This consists of the tractor, the control unit and the Cutter-

Cam. Instead of the connection for the cutting motor and the motor housing itself, a movable tool connection can be mounted, which allows panning, tilting and inclining of the tool. By means of the infinitely adjustable water pressure of 600 to 2500 bar, for example, rock-hard sintering can be efficiently eliminated over longer pipe runs within a very short time and under camera observation.



Top Hat Packer Adapter

With the adapter that can be mounted on the MicroGator tractor, it is possible to introduce Schwalm top hat packers into sewers. With these packers, resin-soaked short liners to seal cracks or joints or top hat profiles for the connection of laterals are pressed against the wall of the sewer and are cured on site.

With a camera integrated into the adapter, the packer can be accurately positioned at the defective location in the sewer or at the lateral connection to be sealed. The system's long cable length and good traction enable the MicroGator to push the packer a long way into the sewer without difficulty. Exact alignment of the packer is ensured by the movement axes of the MicroGator.

Packers are available for mainline sewers with diameters of up to DN800 and top hat seals for laterals from DN 100 to DN 250.



Cuff Installation Packer Adapter

With the adapter that can be mounted on the MicroGator tractor it is possible to introduce packers for the installation of relining cuffs into sewers. The cuff system seals and stabilizes the defect mechanically without using any chemicals and irrespectively of the pipe material.

Thanks to the CutterCam, the packer with the cuff can be positioned at the exact location to be sealed. The system's long cable length and good traction enable the MicroGator to push the packer a long way into the sewer without difficulty. Exact alignment of the packer is ensured by the movement axes of the MicroGator.

Cuffs are available for mainline sewers with diameters of up to DN800.



Technical Data

Technichal system data	
Range of application	mainline sewers
Pipe diameter	DN200 (relined) to DN800
Cutter motor	
Max. speed	10,000 rpm
User friendliness and safety	
Claw and lowering hook	yes
Lowering hook with chain hoist	optional
Pressure monitoring of electronic installation areas	yes
Camera	
Type of camera	CutterCam
Lighting	LED
Special functions	cleaning function
Combinable with	
IBAK cable winches	KW 206, KW 306
IBAK control system	BP100, BS10X

At a Glance

- Pneumatic cutter robot for mainline sewers from DN 200 (relined) upwards
- Can be operated with the IBAK MainLite system and the hose reel
- 4th axis: The motor can be tilted forwards without any changes to the set-up so that among other things intruding roots can be rapidly removed, branch sewers can be prepared for rehabilitation and laterals can be reinstated
- Lowering device and pressure monitoring
- Extensions for rehabilitation measures and for ultra high pressure cleaning
- The MicroGator Air system is compatible with current IBAK inspection tractors and cameras
- A clear view and optimum positioning with the help of the CutterCam with the integrated cleaning function: the grinding dust is removed by continuous air flow

Made in Germany

All IBAK products have one thing in common: They are "Made in Germany". All system components are developed, produced, fitted and tested by IBAK.

With their high quality standards IBAK products set the benchmark for investment security and economy – and have done so for 75 years.

