

IBAK MainLite Family

- a versatile product group -



IBAK MainLite Family

- IBAK MainLite System offers full compatibility
IBAK MainLite Systems was designed as a modular concept. The result is a system of modular components that can be flexibly combined with each other and extended with further functions and units at any time. The control unit and cable winches KW206/306 can be combined with camera tractors, the MicroGator Air system and crawlers for UHP applications
- High Degree of Flexibility
a system concept has been created that successfully combines the sectors inspection, rehabilitation and special purpose cleaning. Depending on the requirements, systems can be provided either simply with a cutting robot, a CCTV system or a UHP crawler or with a combination of all three applications
- Available as mobile systems and systems for vehicle assembly
 - can be provided for mobile applications with light weight single components
 - fully equipped vehicles as the high end solution

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Basic Components

- **Cable Winch KW206/KW306**
- **Control Units (BP100 / BS10)**

Options:

- MicroGator Air Crawler
- Camera Options
- UHP Application



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Cable Winch KW206/KW306

- The KW 206/306 is a motor-driven cable winch which can hold up to 200/300 m of cable. It was designed for operation with IBAK camera tractors and cameras as well the IBAK MicroGator Air System
- The swivel boom allows precise positioning above the manhole. The automatic cable guide ensures correct cable winding.
- The portable solution with up to 300 m of cable is called MainLite Fit. The motor-driven winches with 200 metres (KW206) or 300 metres of camera cable (KW 306) can be transported with the mobile rack to locations which are difficult to access with vehicles. With the integrated seat, you can work comfortably even outside an inspection vehicle.
- The MainLite solid version is identical to the MainLite-fit system, except that it is a version for vehicle installation. The inspection vehicle can also be operated optionally with the 200 metre (KW206) or the 300 metre cable winch (KW306).



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Control Units

The **IBAK BP 100** is used for mobile applications. The control panel is equipped with a 10 inch touch display and two joysticks. The touch display is used to operate the software and the joysticks are used to control the IBAK cameras and IBAK camera tractors and MicroGator Air System.

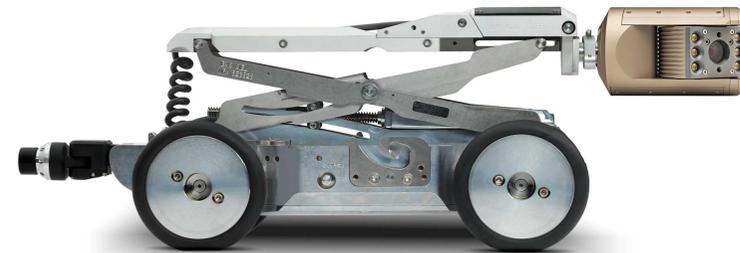


The **IBAK BS10** is the control system for IBAK inspection and cutter systems for installation in van mounted applications. This central control and operating unit consists of a control console (BP 10), a BS10 interface box and a keyboard. All winches of the new generation (KW206/306) and the compatible camera tractors and cameras can be operated as well as the MicroGator Air with this.



Camera Options

- most analogue IBAK cameras and the camera tractors T66 and T76 can be connected to the MainLite system.
- for small pipe diameters from DN 100 upwards, for a T66 can be operated with the ORION camera
- for bigger pipes from DN150 upwards, a T76 camera tractor can be operated with an ORPHEUS.



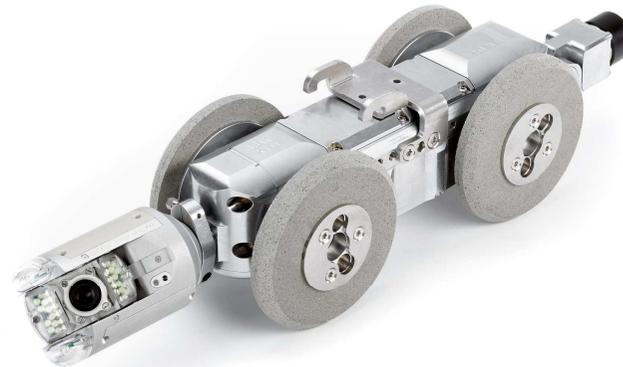
Tractor T66/ORION Camera

- The **IBAK ORION** is the allrounder when it comes to the inspection of pipes of DN 100 and up.
- Every required viewing direction is reached rapidly by the microprocessor controlled pan and tilt head. The ORION can rotate endlessly around its own axis
- With its small diameter of 60 mm, the camera can be connected to all IBAK camera tractors and has also full bend capability when operated as a push camera.
- Inspections up to DN 600 can be carried out with the ORION without the need for additional lights.
- Depending on the field of application, the camera is available with or without explosion protection.



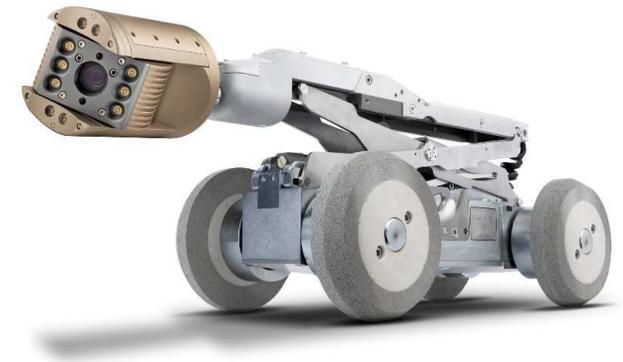
Tractor T66/ORION Camera

- The **IBAK T 66** is a versatile camera tractor for the inspection of sewers of DN 100 and up.
- Larger pipe diameters are easily mastered by the T66 if fitted with the FW67 tractor extension kit.
- The T 66's modular design and the use of only a single tool for fitting individual components result in short set-up times for the pipe adaptations, resulting in more efficient working.



Tractor T76/ORPHEUS Camera

- The **IBAK ORPHEUS** camera can be operated in DN 150 to DN 2000 pipes
- it provides high resolution, high light sensitivity and very good illumination when there is the need for the additional lighting big pipe diameters.
- Illumination is provided by 12 power LEDs which can be switched on and off in groups. In addition, it is equipped with integrated joint gap lighting and a temperature-controlled light. This prevents the camera from overheating at maximum light intensity.
- it is equipped with a 10x optical zoom



Tractor T76/ORPHEUS Camera

- The **IBAK T 76** is a robust and steerable camera tractor for the inspection of sewers of DN 150 and up.
- The wheel sets supplied with the camera tractor and the optional integrated electronic height adjusting device allows convenient inspections with a centred camera in large pipe diameters
- The T 76 is designed as a modular system consisting of the tractor base, the camera base, a positioning unit, height adjusting device and wheels.
- The T 76 has an electronic stabilising function which automatically guides the camera tractor back into the pipe invert if its position deviates.



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IBAK MicroGator Air

- Pneumatic driven Cutting Motor
- Application Area DN200 (lined) up to DN800
- Egg-shaped profile DN200/350 up to 600/900
- Air Powered System
- Travel Distance up to 300m
- Camera Cleaning with Air Shield, Rubber Lip Function and Air Boost



IBAK MicroGator Air

Air Hose Reel

ST 100

- Air hose reel with 100m 3/4" hose
- Maintenance Unit for air and oil management
- Pressure control

Extension Hose Reel

- Air hose reel for 100m extension hose
- Protection box for air hose coupling



Control Unit for Van Fit-out

BS 10 and Interface Box

- Connector Box with cable extension

BP 100 for Van Fit-out

- Connector Box with cable extension
- Extension Emergency Stop



Control Unit – mobile application

BP100 with

- Extension Emergency Stop
- Mobile Connector Box as attachment to cable winch



Adapter MicroGator Air



Quick-Lock-Adapter

- Connections of camera and Quick-Lock coupling will be mounted on holder of air motor
- No additional air will be required for the packer. Existing infrastructure will be used
- **Advantage:** no additional camera is required because of re-mounting the CutterCam



Adapter MicroGator Air

Adapter for Top Hat-Packer

- Top Hat Adapter incl. camera to be mounted on holder of air motor
- Camera will be installed either in or on top of the adapter dependent on the pipe dimension
- **Advantage:** no additional camera is required because of re-mounting the CutterCam



MicroGator GT Lite

IBAK

**UHP Application now integrated in
MainLite Family**



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Adaption to Ultra High Pressure (UHP) Nozzle

- A rotatably mounted UHP cleaning nozzle is operated on a MicroGator carrier system
- Efficient and controlled removal of tough deposits such as concrete
- Working Pressure 600 bis 2.500 bar
- Blocked pipes over longer pipe runs can be efficiently opened within a very short time and under camera observation



MicroGator GT Lite

- Adaption with Swivel Joint and UHP nozzle the same like MicroGator GT
- Special supply line for water and air to assure proper camera cleaning, which will be provided with small twin hose
- **Advantage:** fully embedded in the MainLite family → KW206 as control line



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Overview



IBAK-Fräs- und Saniersysteme/Cutting and Rehabilitation Systems

MicroGator Air/MainLite-System/MicroGator Air/MainLite System

Mobiler Einsatz oder als Fahrzeugsystem/Mobile use or as a vehicle based system

<p>MainLite easy Kabeltrommel/ Cable Reel KT156</p>	<p>MainLite fit/solid Kabelwinde/ Cablewinch KW206/306</p>	<p>BP100</p>	<p>BS10</p>
<p>Wasserstrahlfräsen/ UHP Cutting</p>	<p>Pneumatisch Fräsen und Sanieren/ Pneumatic cutting and rehabilitation</p>		<p>Inspizieren/Inspection</p>
<p>MG GT Lite</p>	<p>ST50 Kamerareinigung/ for camera cleaning</p>	<p>Schlauchtrommel/ Hose Reel ST100</p>	<p>Energieversorgung: externer Kompressor Energy supply: external compressor</p>
<p>Höchstdruckpumpe (2500 bar) und UHP-Düse von UHP-Hersteller High-pressure pump (2500 bar) and UHP nozzle from UHP manufacturer</p>	<p>Optionen/ Options</p> <p>Fahrwagenzusatz/tractor extension</p>		<p>Batterieversorgung/Battery power supply</p>
<p>Hütchen setzen über MicroGator-Air-Adapter/Setting top hats via MicroGator Air adapter</p>			
<p>Manschetten setzen über MicroGator-Air-Adapter/Setting cuffs via MicroGator Air adapter</p>			

MicroGator-System MicroGator System

Fahrzeugsystem/Vehicle based system

<p>Kabelwinde KW100/ Cable winch KW100</p>	<p>BS7</p>	<p>Batterieversorgung/ Battery power supply</p>
<p>Wasserstrahlfräsen/ UHP Cutting</p>	<p>Elektrisch Fräsen und Sanieren/ Electric cutting and rehabilitation</p>	
<p>MicroGator GT</p>	<p>Optionen/ Options</p>	
<p>Höchstdruckpumpe (2500 bar) und UHP-Düse von UHP-Hersteller High-pressure pump (2500 bar) and UHP nozzle from UHP manufacturer</p>	<p>Fahrwagenzusatz/ Tractor extension</p>	<p>Diverse Wechselköpfe/ Various exchangeable heads</p>
<p>Hütchen setzen über MicroGator-Adapter/Setting top hats via MicroGator adapter</p>		
<p>Manschetten setzen über MicroGator-Adapter/Setting cuffs via MicroGator adapter</p>		

mit ORION (2.9) über
ORION-Adapter
With ORION (2.9) via
ORION adapter