

RAUSCH in all cases: Search. See. Repair.



**Rear room RCA 1000**

- Lined with stainless steel, aluminium profiles, drawers
- Profile racks for tractors and camera systems
- Fully automatic cable drum for the satellite system, telescopic swivel arm at the cable drum ELKA 600 with electronic rewind control of the camera cable
- Back eye unit, intercom unit
- 9" monitor for the camera picture
- As option: air pressure unit for the Kampac joint test system and for the Quick-Lock V4A liner system.



**KS 60 pan and tilt camera**

- ø 60 mm for the inspection of laterals with 30 m push cable in connection with a satellite or portable unit. Application from 80 mm.
- LED illumination
- Motorized horizontal positioning as option.



**TSS 200**

- Portable flushing system for the cleaning of laterals from the main line.

Can be used as self-supporting system at high pressure flushing units or also as extension at the SAT-Star satellite system.

Applicator from 200 mm in connection with the camera tractor SAT 200 Z and camera SK 200 Z.



**SAT-Star** satellite camera

Your **top spy** in the underground



Your Authorized Dealer is:

**Municipal Equipment Sales, Inc.**

Mailing Address: PO Box 1233  
Location: 208 Bell Place  
Woodstock, GA 30188

Local: 770-928-0424  
Fax: 770-928-7512  
Nationwide Toll Free: **1-800-782-2243**  
Email: [sales@municipalequipment.com](mailto:sales@municipalequipment.com)  
Web: [www.municipalequipment.com](http://www.municipalequipment.com)



06/2002



Push cable and camera cable for the house connection camera KS 60 are wound up on the electrical, fully automatic cable drum K15 sync (right).

The cable for the satellite camera is being wound and rewound during inspection simultaneously with the tractor's camera cable.



Power and control electronics like this CPU of the satellite camera tractor are completely manufactured in our company. From development till a detailed completion – all from Rausch.



# SAT-Star satellite camera

for the inspection of main lines and laterals.  
Application area 200 - 1200 mm  
and egg-shaped profiles as from 25/37,5

RAUSCH CCTV inspection units are developed, designed and manufactured - all from one team.

Thus, a fully developed technique, high quality and service are guaranteed.

As option, a temperature sensor can be integrated for the creation of temperature profiles with a resolution of 0,5° C. This is important e.g. for the inspection of deposit lines.

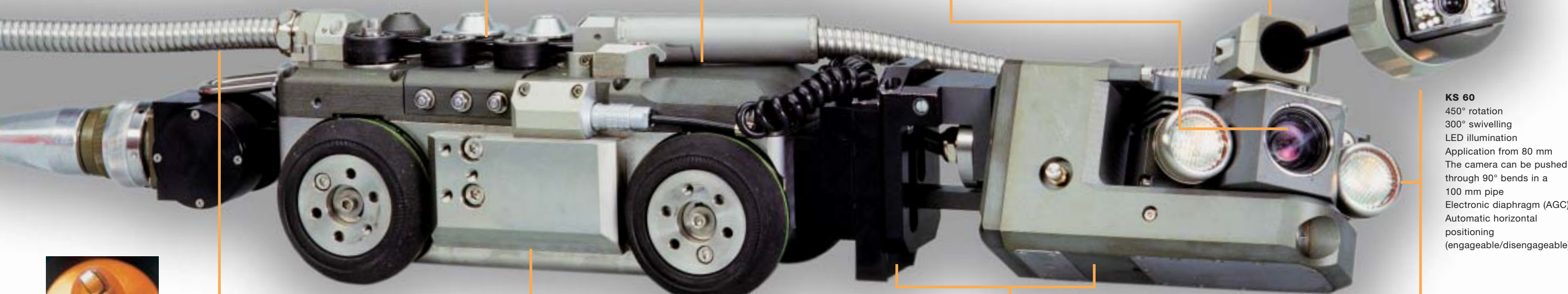


Ontop of the SK200 Z the pan and tilt camera KS60 with focus is positioned in a quiver. The camera can optionally be equipped with a motorized horizontal positioning.

Optionally, you can get an integrated detection system for the determination of position and depth of the camera. For the inspection of main lines without laterals, the satellite camera can be taken off from the SK200 Z in no time.

The satellite camera cable feeder is made via a special roller system on top of the lid of the camera tractor. Here, also the distance measuring is made.

We developed programs (control macros) like the automatic examination of joints, that can be carried out with positional transmitters.

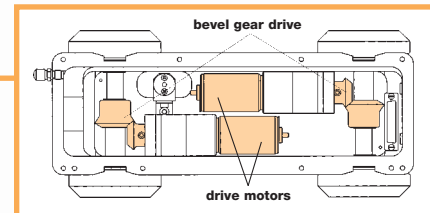
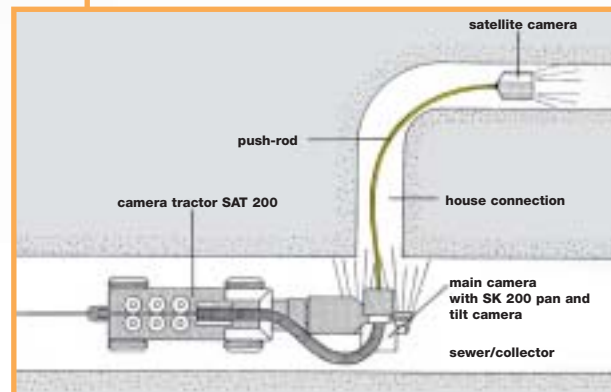


**KS 60**  
450° rotation  
300° swivelling  
LED illumination  
Application from 80 mm  
The camera can be pushed through 90° bends in a 100 mm pipe  
Electronic diaphragm (AGC)  
Automatic horizontal positioning  
(engageable/disengageable)

Separate pressure sensors monitor the tightness of the camera and tractor during inspection. Optionally, cameras and tractors can be delivered in explosion-proof version (group II, category 2G and 3G). The electrical equipment is then marked with **EEx pdm II T 3**.



The exact finding of laterals and the observation for the camera KS60 during work is made with the pan and tilt camera SK200 Z (540° rotation, 300° swivel). Main lines from 200 mm and laterals with an angle of up to 90° can be inspected in one working cycle. The distance in the main line and the distance in the lateral is being registered separately.



Each axle has a separate drive motor. Optionally, inclination sensors can be integrated. Inclination is being measured from ± 20% with a resolution of ± 0,1% for the creation of gradient diagrams.



The integrated camera electronics includes a zoom objective, diaphragm adjustment, autofocus function and an automatic white balance to the respective color temperatures.