



K.R.E. ENGINEERING SERVICES



150 / 250N Robotic Cutter



RVICES

150-000N Data and Facts

Robot Application

- Remote Robotic removal and reinstatement
- For use in pipe diameters from 125 – 300mm
- Localized pre & post TV inspection of main lines and laterals

Wheels Sets

- Diamond coated High Traction wheels for Ø125mm, 150mm, 225 – 300mm
- Rubber drive wheels for Ø150mm, 225 – 300mm

Robot Functions

- Removal & Milling of hardened deposits, concrete, ceramics & plastics
- Removal of intruding and protruding obstacles.
- LRC High pressure water removal of root intrusion from mainline and in lateral connection
- Reinstatement of fully or partially covered laterals in mainline sewers.
- Cleaning and bevelling edges of reinstated lateral connections

150-000N Tractor Operation

- Robot carriage: drives forwards / reverse
- Elevation up / down
- Rotation arm: 360° continuous clockwise / counter clockwise motion for camera & cutting function
- Camera: 320° camera swivelling in lateral axis
- L 80cm, Ø110mm, from 22kg

Recommended Air Motors / Specifications

- Standard air motor sizes 150mm & 225mm and 300mm
- Optional air motor sizes for 125mm, 300mm
- Optional 150mm 45° forward facing air motor
- 1/4" Collet spindle / 3/8" Shaft threaded
- 675 watt Air Motor
- 15,000 Rpm
- Minimum air supply 25 cfm



System Components & Accessories

Tooling / Attachments

- Diamond coated or granular carbide Conical or ball-shaped cutting heads
- 50mm Granular cutting domes with carbide inserts
- Disc grinder
- High-pressure jet nozzle for lateral root removal and surface deposit removal / cleaning.
- Carbide routers for resin/felt or fibreglass
- Specialised Wire brushes

Automatic Cable Drum

- Remote control, Electro pneumatic powered cable feed
- Automatic self-levelling rewind.
- 200m Cutter Control Cable, Ø13mm, Kevlar reinforced cable with toughened polyurethane sheath
- Mill-spec water resistant plugs IP65 rated and cable restrainers.
- 200m air hose with automatic, self-levelling rewind and quick connect fittings
- Output and retrieval: Automatic or Manual
- Epoxy powder coated frame with Stainless steel in-fills
- H 137cm, W 90cm, D 52cm, from 100kg

Control Box

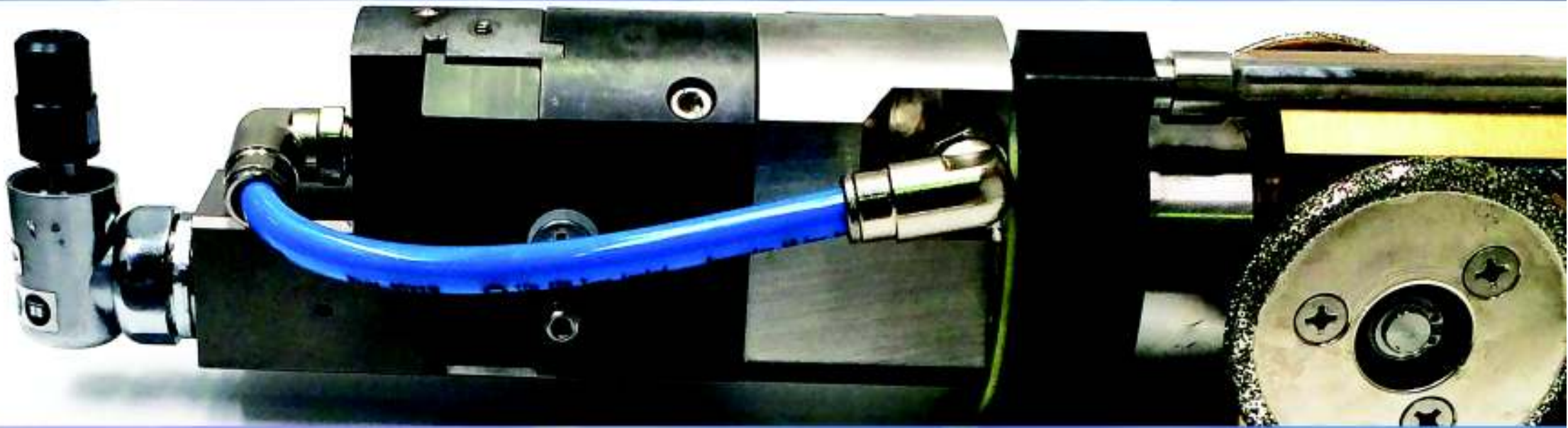
- Controls for robot functions;
- 3-Axis robot cutting control via Joystick operation.
- High / Low travel speed with variable cutting speed control.
- Function direction reverse switches for operator ease of use.
- Internal / External light switch with variable illumination controls.
- Power supply 230 V (110 V upon request).
- Fuse warning indicators.
- PAL or NTSC systems.
- Options; KRE box data for on-screen text display. 16" - 24" Flat screen monitor.

PCC2 Camera Specifications

- Robust, Stainless Steel & Aluminium construction; 5 bar tested
- Quick-mount assembly with mill-spec water resistant connectors IP65
- Camera: 320° camera swivelling in lateral axis
- Image Sensor: 1/4" Colour CCD Camera
- Video System: PAL or NTSC
- Number of Effective Pixels: 752 x 582 (PAL)
- Resolution: 520 TV Lines
- Minimum Illumination: 0.02 Lux / F1.2
- Electronic Shutter: 1/50 ~ 1/100.000sec
- Horizontal Sync Frequency: 15.625 kHz (PAL)
- Vertical Sync Frequency: 50Hz (PAL)
- Video Output: 1Vp-p, 75ohms Composite
- Working Temperature: -10 to 45 Degree C
- Built-in Lens: 3.7 mm / F2.0



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