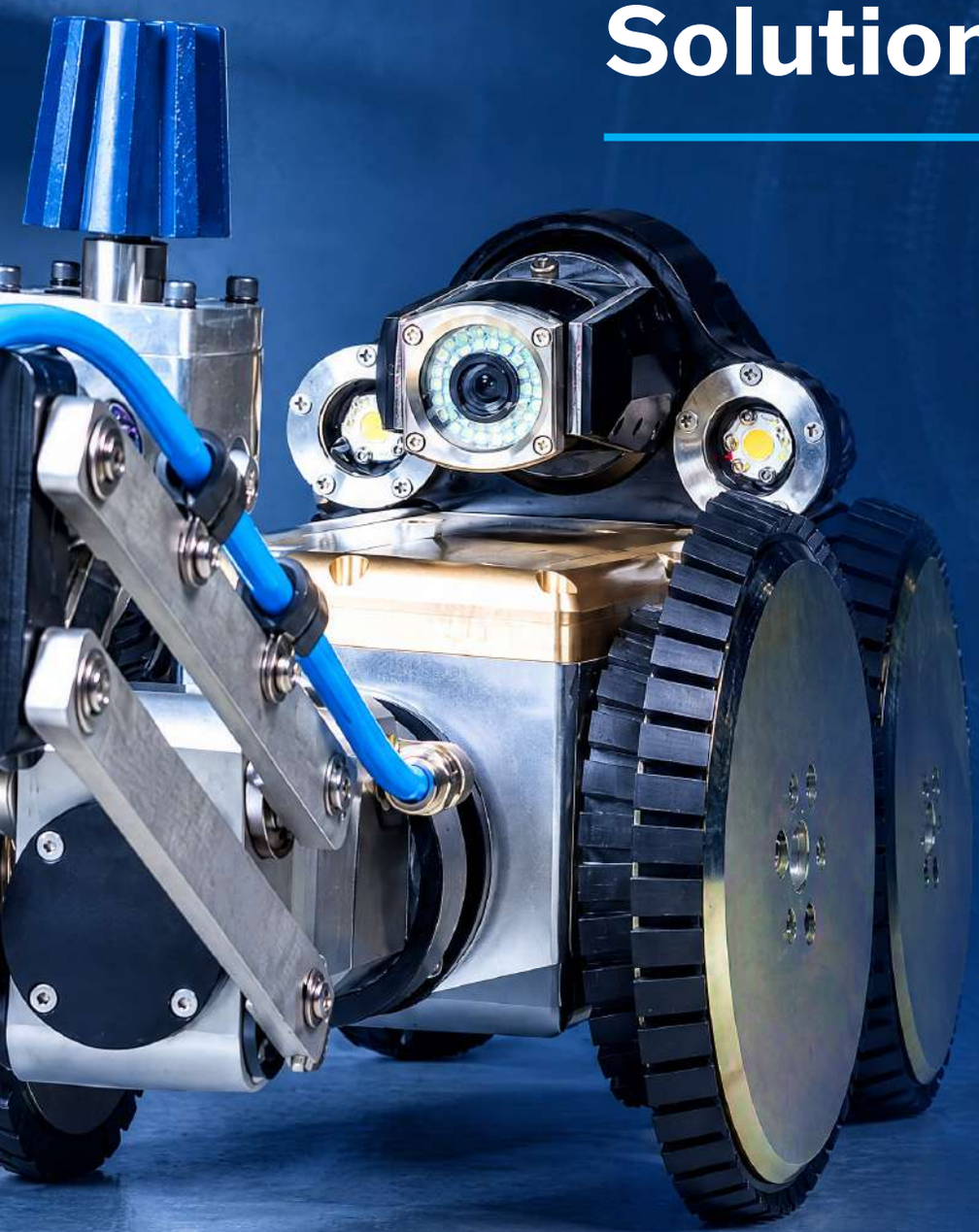
KRE ENGINEERING SERVICES
PIPELINE MAINTENANCE SPECIALISTS

Trenchless Pipe Rehabilitation Solutions



35+
YEARS EXPERIENCE

WWW.KRE.COM.AU

Contents

About KRE 03

Partnering with KRE 04

Trusted Across Australasia 05

Robotic Cutting Systems 06

150-300 Cutter 07

300-650 Cutter 08

Ovoid Kit (650-1100 mm) 09

Cutting Heads & Accessory Kits 10

Portable 100m Air & Cable Reel 12

Mainline 200m Air & Cable Reel 13

Service & Support 14

Custom Systems & Vehicle Development 15

Pneumatic Rehabilitation Packers & Pipe Plugs 16

Pneumatic Pipe Plugs 17

Relining Resins & Patch Repair Systems 18

PatchBox Pipe Repair Kits 19

Contact KRE 20

About KRE

KRE Engineering Services is a proudly Australian-owned company with more than 35 years of experience developing innovative trenchless pipeline rehabilitation solutions.

Specialising in robotic cutting systems and rehabilitation products, we provide reliable, easy-to-maintain equipment and complete support solutions to contractors throughout Australia, New Zealand and the Asia-Pacific region.

Through continuous product development and close collaboration with our customers, KRE is committed to delivering practical, cost-effective solutions backed by responsive local service and technical expertise.

35+
YEARS EXPERIENCE

Australian
OWNED AND OPERATED

In-house
SERVICING, REPAIRS AND SPARE PARTS

Partnering with KRE

AUSTRALIAN MADE

Equipment You Can Rely On

Designed for dependable performance in demanding environments, our equipment combines robust construction, corrosion-resistant components and service-friendly modular designs to help maximise uptime and deliver long-term value.

Responsive Australian Support

Benefit from direct access to local, experienced mechanical and electrical engineers and technicians who understand your equipment and are committed to delivering responsive service and support.

Equipment When You Need It

Whether you are expanding your fleet, responding to peak demand or trialling new technology, our range of robotic cutters for pipes DN75 to DN1100 gives you the flexibility to purchase or hire the equipment you need, when you need it.

Servicing & Repairs

Our dedicated Australian workshop provides servicing, repairs and preventative maintenance, eliminating the need for lengthy overseas repairs. With faster turnaround times and reduced freight costs, you can keep your equipment performing at its best and maximise the value of your investment.

Complete Trenchless Solutions

KRE Engineering supplies complete turnkey solutions for trenchless rehabilitation projects. From robotic cutters, packers, plugs and resins to cutting heads, servicing, training and technical support, we provide everything you need to maximise performance and achieve successful project outcomes.

Specialist Training

Backed by more than 35 years of industry experience, KRE Engineering provides practical on-site and in-house training tailored to your equipment and applications. Upon successful completion, operators receive KRE-certified training, giving your team the confidence and knowledge to operate safely.

Trusted Across Australasia

"For over 30 years, Interflow and KRE have built a strong, supportive and mutually beneficial relationship."

Geoff Weaver
MANAGING DIRECTOR, INTERFLOW - AUSTRALIA

"KRE's technical expertise and accommodating service are the reason we have remained a long-standing customer."

Rowan Burgess
MANAGING DIRECTOR, PIPE TECHNOLOGIES - NEW ZEALAND

"I have been dealing with Keith and his team at KRE Engineering for almost 20 years and can honestly say they have always supplied me with quality equipment, materials whilst constantly providing expert advice backed by reliable and quick service. Thank you."

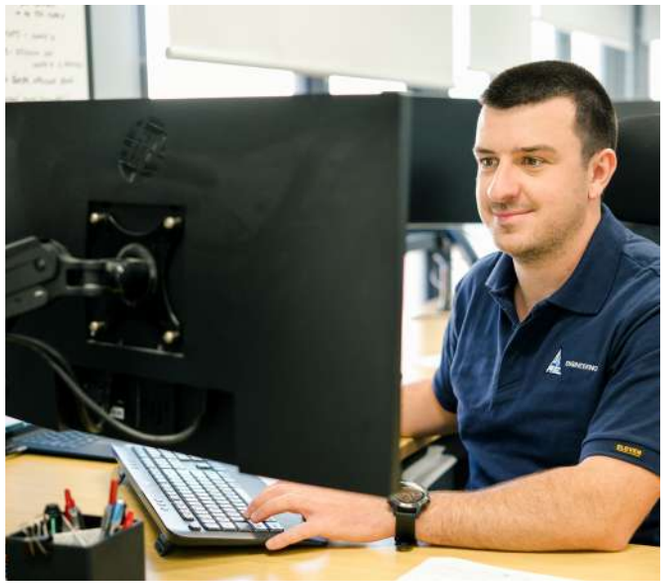
Luke Moore
DIRECTOR, PIPE MANAGEMENT - AUSTRALIA

"KRE have created a great company with great products and are a great team that we are happy to work with!"

Andres Tagle
DIRECTOR, GLEMFLOW

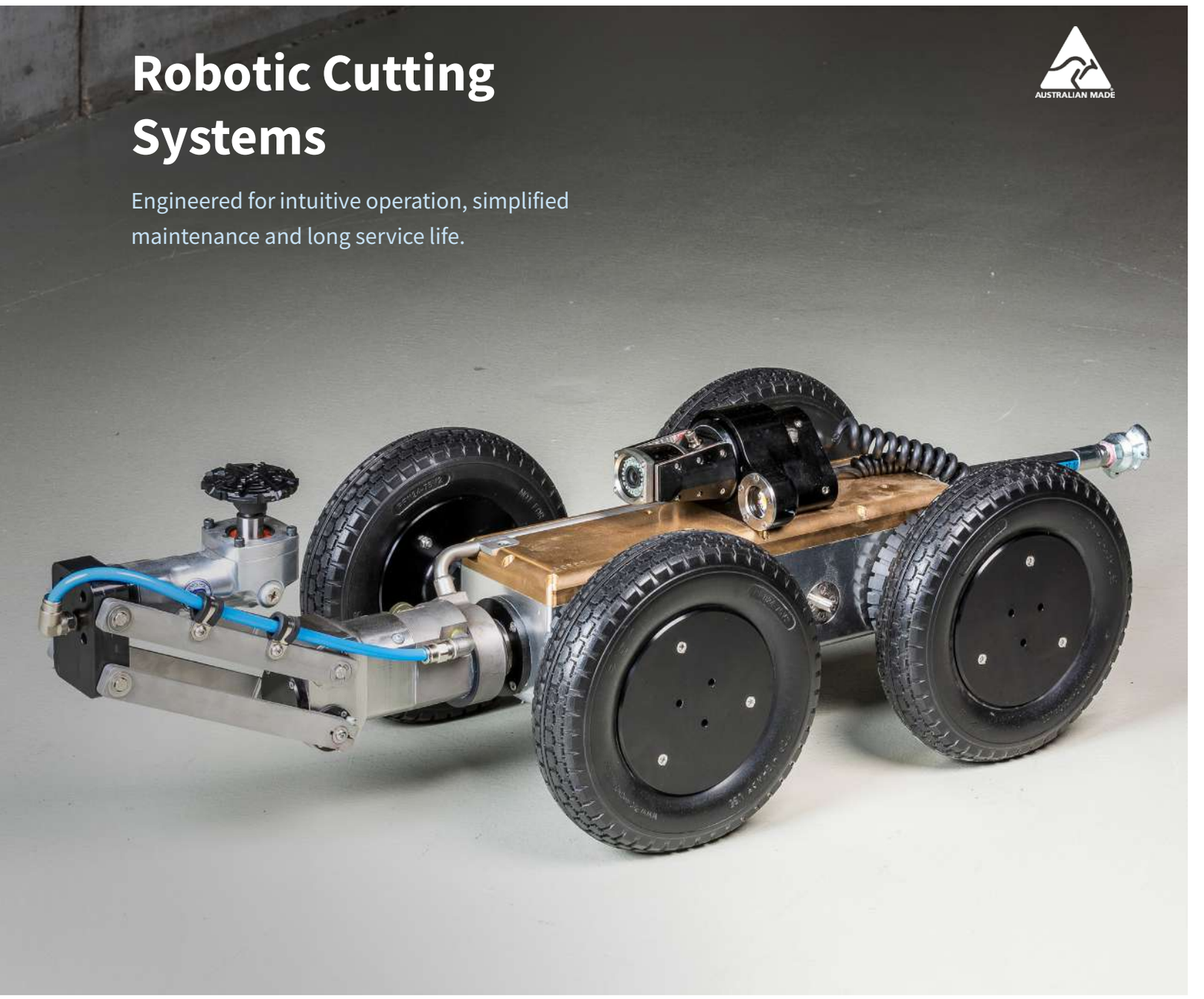
"Working with KRE has been a really positive experience, especially because of their support team. Whenever we've needed a hand, they've been consistently reliable, responsive, and genuinely helpful. It makes a big difference knowing you can count on them to sort things out quickly. I'd definitely recommend them."

Davi Tai
PROJECT ENGINEER, VEOLIA ENVIRONMENTAL SERVICES



Robotic Cutting Systems

Engineered for intuitive operation, simplified maintenance and long service life.



KRE robotic cutting systems are designed and manufactured in Australia for trenchless pipeline rehabilitation across DN150 to DN1100.

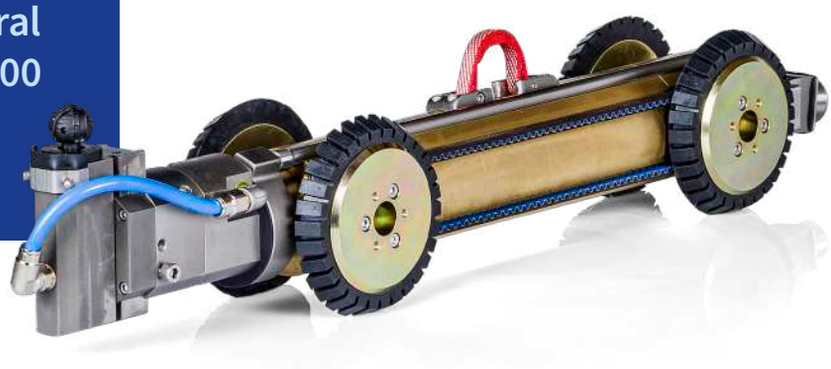
Developed through more than 35 years of industry experience, KRE systems combine robust engineering with practical, serviceable design. Every component has a purpose - delivering reliable performance while reducing unnecessary complexity.

Unlike conventional robotic cutters, KRE systems utilise a fully integrated, modular design with no sensitive electronics housed within the cutter body. By removing the components most susceptible to water ingress, vibration and contamination, KRE cutters are designed to reduce failure points and simplify servicing.

A modular platform with interchangeable air motors, cutting heads and accessory kits allows each system to be configured for specific rehabilitation applications while reducing spare parts requirements and extending the capability of a single cutter system.

150-300 Cutter

Designed for precision cutting, grinding and lateral reinstatement in DN150-300 pipelines.



KEY FEATURES

Water proof cutter body

No sensitive electronics exposed to water or contamination.

Modular air motor platform

Interchangeable motors optimise performance for different applications.

Interchangeable cutting heads

Configure for PVC, CIPP liners, concrete, clay, cast iron and steel.

Compact design

Easier deployment in confined access and lateral pipelines.

Brass construction

Corrosion-resistant and designed for long service life.

Field-serviceable design

Simplifies maintenance and reduces equipment downtime.

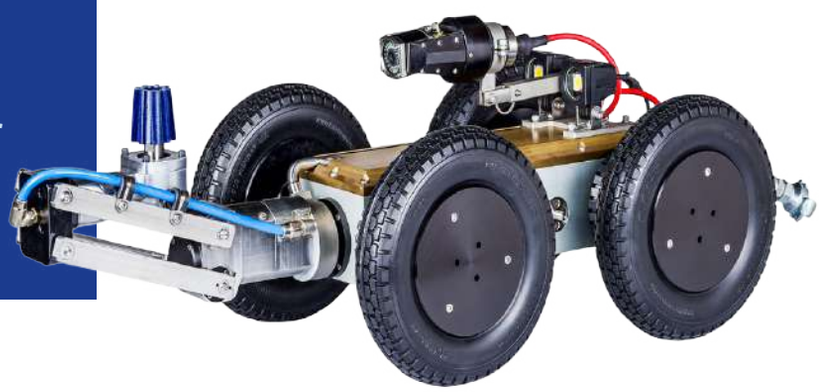
TECHNICAL SPECIFICATIONS

SPECIFICATION	VALUE
PIPE DIAMETER	DN150–300
DRIVE SYSTEM	24 VDC / 48 VDC
CUTTER ROTATION	Continuous 360°
AIR MOTOR	22,000 RPM
WEIGHT	30–35 kg

SPECIFICATION	VALUE
CAMERA	320° tilt
PRESSURE RATING	Pressure tested to 10 PSI
AIR SUPPLY	75 CFM @ 100 PSI
CONTROL SYSTEM	Remote joystick control

300–650 Cutter

Designed for high-torque cutting, grinding and milling in DN300-650 sewer and stormwater pipelines.



KEY FEATURES

Water pro cutter body

No sensitive electronics exposed to water or contamination.

High-torque air motor options

Delivers the power required for concrete removal, root cutting and heavy-duty rehabilitation.

Precision belt drive

Provides smooth, accurate cutter operation and efficient power transfer.

360° continuous cutter rotation

Precise cutter positioning without repositioning the machine.

320° tilt, 360° pan camera

Enhanced visibility for accurate operation in demanding environments.

Modular accessory platform

Configure the system for specialised rehabilitation applications.

TECHNICAL SPECIFICATIONS

SPECIFICATION	VALUE
PIPE DIAMETER	DN300-650
DRIVE SYSTEM	24 VDC / 48 VDC
CUTTER ROTATION	Continuous 360°
AIR MOTOR	2300–4500 RPM, 1 HP
WEIGHT	45–55 kg
CAMERA	320° tilt, 360° pan

SPECIFICATION	VALUE
PRESSURE RATING	Pressure tested to 10 PSI
AIR SUPPLY	75 CFM @ 100 PSI
POWER REQUIREMENT	240 V, 50–60 Hz, 4.5 A
CONTROL SYSTEM	Remote joystick control
CABLE & AIR LINE LENGTH	Up to 200 m

Ovoid Kit

LARGE DIAMETER CONVERSION SYSTEM

Designed to extend the capability of the KRE 300-650 Cutter for rehabilitation of DN650-1100 circular and ovoid pipelines.

KEY FEATURES

Compatible with circular and ovoid pipelines

Expands the operating range of the 300–650 Cutter.

Bolt-on conversion system

Fast installation with minimal setup time.

Adjustable height system

Maintains cutter stability across varying pipe profiles.

Compatible with existing cutting heads and accessories

Maximises the utilisation of existing equipment.

Robust mechanical construction

Designed for long service life and straightforward servicing.

Pressure tested to 10 PSI

Reliable operation in demanding underground environments.

No dedicated cutter required

Extends the capability of your existing 300–650 system, reducing capital investment.

TECHNICAL SPECIFICATIONS

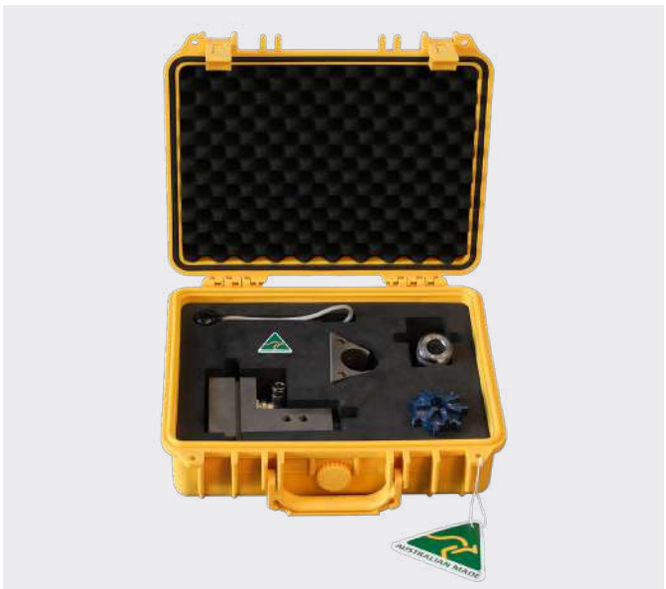
SPECIFICATION	VALUE
PIPE DIAMETER	DN650–1100
COMPATIBLE CUTTER	KRE 300–650 Cutter
PIPE PROFILES	Circular & Ovoid
AIR MOTOR	2300–4500 RPM, 1 HP
WEIGHT	26 kg

SPECIFICATION	VALUE
CAMERA	KRE SPT camera
PRESSURE RATING	Pressure tested to 10 PSI
COMPATIBLE TOOLING	All KRE cutting heads
COMPATIBLE ATTACHMENTS	All KRE 300-650 accessories

Cutting Heads & Accessory Kits

ONE CUTTER. MULTIPLE APPLICATIONS.

Interchangeable cutting heads and modular accessory kits allow KRE robotic cutters to be configured for a wide range of rehabilitation applications. From concrete removal and lateral reinstatement to CIPP liner cutting, root removal and pipe preparation, the KRE tooling range provides the flexibility to optimise cutter performance for every job.



KEY FEATURES

Interchangeable tooling

Configure the cutter for specific materials and rehabilitation applications.

Diamond, carbide and milling cutters

Engineered for efficient cutting, grinding and finishing.

Modular accessory kits

Expand system capability without replacing milling robot.

Fast tool changeover

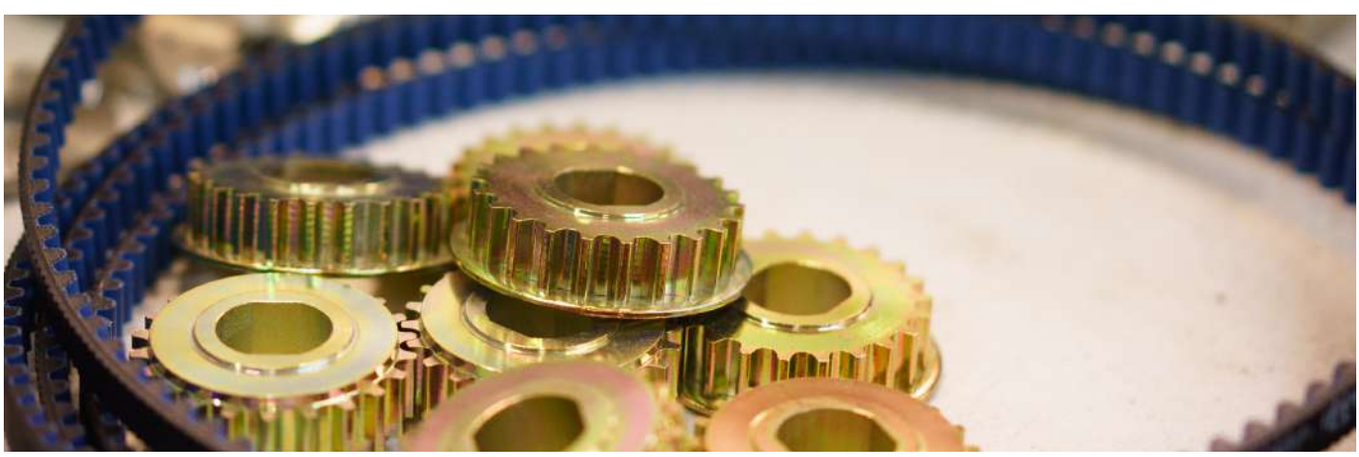
Reduce setup time and maximise productivity.

Compatible across the KRE range

Designed for both 150 and 300 Series cutters (model dependent).

Precision manufactured

Durable construction for consistent cutting performance and long service life.



Suitable Applications

01 Concrete Removal

02 Lateral Reinstatement

03 CIPP & UV-Cured Liner Cutting

04 PVC & Plastic Pipe Cutting

05 Clay, Cast Iron & Steel

06 Root Removal

07 Encrustation & Obstruction Removal

08 Surface Grinding & Finishing

KRE stock a comprehensive range of cutting heads and accessory kits available to suit specific pipe materials, rehabilitation methods and operating conditions.

Reel Systems

Designed to complement the KRE robotic cutting range, KRE reel systems provide reliable deployment, cable management and efficient cutter operation across both portable and vehicle-mounted applications.

Available in 100 metre portable and 200 metre mainline configurations, each reel is engineered for durability, ease of operation and long service life in demanding field environments.

Portable 100m Air & Cable Reel

KEY FEATURES

100 metre cable and air line capacity
Ideal for lateral and confined access applications.

Portable trolley design
Easily manoeuvred across varied job sites.

Manual rewind system
Simple, reliable operation with minimal maintenance.

Kevlar-reinforced control cable
Increased durability and abrasion resistance (rated to 500 kg).

IP65 waterproof plug
Reliable electrical connection in harsh environments.

Powder-coated steel frame
Durable construction for demanding field conditions

Integrated reel braking system
Improved control during deployment and retrieval.

Strain relief cable protection
Reduces connector wear and extends cable life.

TECHNICAL SPECIFICATIONS

SPECIFICATION	VALUE
MAXIMUM LINE LENGTH	100 metres
CABLE REEL WEIGHT	57 kg
AIR REEL WEIGHT	52 kg
CABLE REEL DIMENSIONS	1150 x 650 x 650 mm

SPECIFICATION	VALUE
AIR REEL DIMENSIONS	1150 x 650 x 650 mm
AIR SUPPLY	75 CFM @ 100 PSI (2124 L/min @ 6.9 bar)
CABLE TYPE	Kevlar-reinforced control cable

Mainline 200m Air & Cable Reel

VEHICLE-MOUNTED REEL SYSTEM

Designed for high-capacity deployment and efficient cable management during mainline rehabilitation operations.

KEY FEATURES

200 metre cable and air line capacity

Extended operating range for mainline rehabilitation.

Pneumatic rewind system

Fast, controlled retrieval of cable and air line.

Automatic self-levelling mechanism

Even cable winding and reduced wear.

Integrated braking system

Controlled rewind for safer operation.

Kevlar-reinforced control cable

High-strength cable rated to 500 kg.

Mil-Spec IP65 waterproof plug

Reliable electrical connection in harsh operating environments.

Truck-mount design

Integrates into service vehicles for efficient deployment.

Powder-coated steel frame with stainless-steel panels

Corrosion-resistant construction for long service life.

TECHNICAL SPECIFICATIONS

SPECIFICATION	VALUE
MAXIMUM CABLE & AIR LINE LENGTH	200 metres
DIMENSIONS	910 x 400 x 1400 mm
WEIGHT	300 kg
AIR SUPPLY	75 CFM @ 100 PSI (2124 L/min @ 6.9 bar)

SPECIFICATION	VALUE
REWIND SYSTEM	Pneumatic air motor
CABLE TYPE	Kevlar-reinforced control cable
PLUG	Mil-Spec IP65 rated
INSTALLATION	Vehicle mounted

Service & Support

Operator Training

Maximise equipment performance through practical, hands-on training delivered by experienced KRE technicians.

TRAINING INCLUDES:

- Equipment operation
- Routine maintenance
- Safe operating procedures
- Application-specific techniques
- PatchBox installation training
- Certificate of competency upon completion of training

Keeping Your Equipment Performing

KRE provides comprehensive after-sales support to maximise equipment performance throughout its service life. From servicing and repairs to spare parts, technical support and operator training, our Australian-based team is committed to keeping your equipment operating reliably and minimising downtime.

Servicing & Repairs

Regular servicing helps maintain peak performance and extends equipment life. Every KRE robotic cutter is designed for straightforward maintenance, with servicing and repairs carried out in-house by the engineers and technicians who build the equipment.

Product Demonstrations

Product demonstrations are available at our Miranda facility or your site. KRE technicians can also provide on-site equipment handover and technical support to help your team get the most from your KRE system.

Spare Parts

A comprehensive range of genuine KRE spare parts is stocked locally, providing fast access to replacement components without the delays and costs associated with overseas supply.

Custom Systems & Vehicle Development

ENGINEERED AROUND YOUR OPERATION

KRE designs and builds customised trenchless rehabilitation systems to suit the specific requirements of each customer. From vehicle fit-outs to complete rehabilitation units, every system is engineered to improve efficiency, simplify operation and maximise productivity in the field.

Whether upgrading an existing vehicle or developing a new mobile solution, KRE can integrate robotic cutters, UV curing systems, junction jetters, reels, compressors, generators and supporting equipment into a complete, operator-focused package.

CAPABILITIES

Custom vehicle fit-outs

Designed around your operational requirements.

Complete rehabilitation systems

Integrated equipment ready for field deployment.

Equipment integration

Robotic cutters, UV curing rigs, junction jetters, reels and ancillary equipment.

Operator-focused layouts

Practical designs that improve workflow and accessibility.

Designed and manufactured in Australia

Local engineering, fabrication and ongoing support.

OUR APPROACH

Every vehicle is designed in consultation with your team to ensure the layout, equipment selection and operating systems meet your specific requirements. From concept and design through to installation and commissioning, KRE delivers complete turnkey solutions backed by local engineering expertise.

Pneumatic Rehabilitation Packers & Pipe Plugs

Reliable Sealing. Secure Isolation. Proven Performance.

As the Australian distributor of SAVA pneumatic rehabilitation packers and pipe plugs, KRE Engineering provides proven solutions for sectional repairs, flow control and pipeline maintenance. Designed for demanding sewer, stormwater and industrial applications, SAVA products deliver reliable performance, while KRE's local support and technical expertise ensure you have the right solution for every job.

CAPABILITIES

- Designed for reliable patch repairs and sectional liner installations
- Available in specialised configurations including lateral, flexible, T and long packers to suit a wide range of rehabilitation applications
- Engineered for consistent pressure distribution and dependable curing results
- Durable design built for long service life.
- Suitable for sewer, stormwater and industrial rehabilitation projects

Pneumatic Pipe Plugs

KEY FEATURES

Reliable sealing for maintenance and testing applications

Multi-size designs allow each plug to cover multiple pipe diameters, reducing the number of plugs required on site

Flexible construction bends easily around tight corners and through manholes for easier installation

Reinforced designs and high-performance models withstand demanding operating conditions and higher back pressures

Available in specialist configurations including high-pressure, chemical-resistant and large-flow bypass plugs

Ideal for emergency flow isolation and bypass pumping

APPLICATIONS

01 Pipe Patch Repairs

02 Sectional Liner Installations

03 Pipeline Testing & Flow Isolation

04 Bypass Pumping

05 Sewer & Stormwater Maintenance

Relining Resins & Patch Repair Systems

Strength. Durability. Reliability.

KRE Engineering provides a complete range of relining resins and patch repair systems designed to deliver durable, long-lasting repairs for sewer, stormwater and industrial pipelines. From complete CIPP rehabilitation projects to localised point repairs, our proven solutions help contractors achieve consistent results with confidence.

RESIN

Two-component systems specially developed for pipe rehabilitation and coating applications

Variable curing options available to suit summer, winter and project-specific requirements

High-strength formulations deliver long-term performance and structural integrity

Chemical-resistant properties make them suitable for demanding industrial environments

Abrasion-resistant design helps maximise the service life of repairs

PatchBox Pipe Repair Kits

KEY FEATURES

- Complete patch repair solution for pipes from DN100 to DN750
- Available in 600 mm and 1200 mm lengths to suit a range of repair requirements
- Supplied with resin, fibreglass mat and all essential consumables for efficient installation
- Ideal for rapid point repairs in sewer, stormwater and industrial pipelines
- Supported by KRE's in-house training and complete patching solution using PatchBox kits and SAVA packers

APPLICATIONS

01 Localised Pipe Repairs

02 Cured-in-Place Pipe (CIPP) Rehabilitation

03 Sectional Liner Installations

04 Sewer & Stormwater Rehabilitation

05 Industrial Pipeline Repairs

KRE ENGINEERING SERVICES
PIPELINE MAINTENANCE SPECIALISTS

Contact KRE

ADDRESS

Unit 32, 205 Port Hacking Road
Miranda NSW 2228, Australia

CALL

(02) 9522 4922

ORDERS

orders@kre.com.au

WWW.KRE.COM.AU