

# WE'VE GOT THE POWER

THE ULTIMATE TOOL FOR  
MAINLINE MAINTENANCE





**ID-TEC** IS THE PROUD MANUFACTURER OF THIS  
MODULAR SYSTEM THAT FEATURES A MULTI FUNCTIONAL  
TRANSPORTER AND VARIOUS JOB-SPECIFIC MODULES FOR  
UNDERGROUND PIPE INSPECTION, CLEANING, CUTTING  
AND REHABILITATION.

ONE SYSTEM, HIGHLY EFFECTIVE AND COST-EFFICIENT,  
REMOVING ROOT INTRUSIONS, CUTTING PROTRUDING  
TAPS, REINSTATING LATERAL CONNECTIONS, INSTALLING  
SPOT REPAIR SYSTEMS AND REMOVING HEAVY GREASE,  
OVERPOURED CONCRETE AND YEARS OF CALCIUM AND  
SCALE BUILD-UP FROM 6" - 36" UNDERGROUND PIPES  
AND SERVICE LATERAL CONNECTIONS.

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WHAT IF YOU  
RUN INTO...



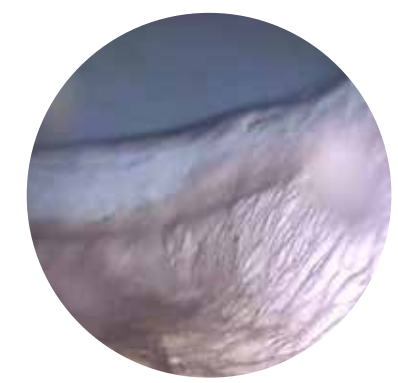
STRUCTURAL DEFECTS



CEMENT & CONCRETE



ROOTS & FAT



SCALE & CALCIUM



PROTRUDING TAPS



LATERAL REINSTATEMENT



# THE SR-SERIES

POWERFUL MULTI TOOL FOR MAINLINE MAINTENANCE



CCTV INSPECTION & SPOTREPAIR

ONE MULTI FUNCTIONAL TRANSPORTER  
WITH VARIOUS JOB-SPECIFIC MODULES  
FOR MULTIPLE APPLICATIONS.



PRECISION WATER JET CUTTING



REINSTATEMENT & CUTTING



PRECISION WATER JET CUTTING APPLIES A HIGH PRESSURE/ LOW VOLUME WATER JET FROM A SPECIAL  
DESIGNED TRANSPORTER, FEATURING A PAN & TILT NOZZLE AND CCTV CAMERA MODULE, TO REMOVE  
DEPOSITS SETTLED AND SOLID OBSTRUCTIONS FROM WITHIN 6" - 36" (150-900MM) PIPES  
AND SERVICE LATERAL CONNECTIONS.



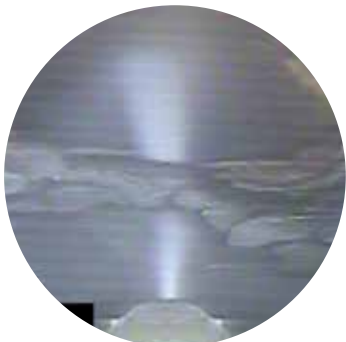
# PRECISION WATER JET CUTTING



TREE ROOTS



CALCIUM



CEMENT

PRESSURE RANGE	APPLICATION
> UP TO 7,250PSI (500BAR)	+ CIPP PREPARATION (ROUGHEN PIPE SURFACE, REMOVE DEPOSITS & GREASE FILM)
	+ FAT, OIL & GREASE
	+ TREE ROOTS
> UP TO 14,500PSI (1000BAR)	+ CEMENT & GROUT
	+ SCALE & CORROSION
	+ MINERAL DEPOSITS
	+ CALCIUM & CONCRETE
> UP TO 32,000PSI (2200BAR)	+ EXTREME REMOVALS



WJ125 > P34  
6-15" (150-375mm)



WJ160 > P37  
8-15" (200-375mm)



WJ180 > P38  
8-20" (200-500mm)



WJ190 > P39  
10-36" (250-900mm)





WITH UP TO 32,000PSI (2200BAR)  
PRECISION WATER JET CUTTING  
REMOVES: FOG, DEBRIS, ROOTS  
CEMENT, SCALE, GROUT, CALCIUM  
AND CONCRETE.



# PRECISION WATER JET CUTTING

WITH EYES ON THE JOB, CONTINUOUS ADJUSTMENT OF PRESSURE, ANGLE AND DISTANCE TO MATERIAL ENABLE THE OPERATOR TO ACHIEVE THE BREAKDOWN AND ELIMINATION OF VARIOUS OBSTRUCTIONS WITHOUT ADDING DAMAGE TO THE PIPE STRUCTURE.

POWERFUL

CONTROLLED

EYES ON THE JOB



REMOVED CEMENT



REMOVED CALCIUM



LATERAL REINSTATEMENT,  
OFF-SET CORRECTIONS &  
CUTTING PROTRUDING TAPS

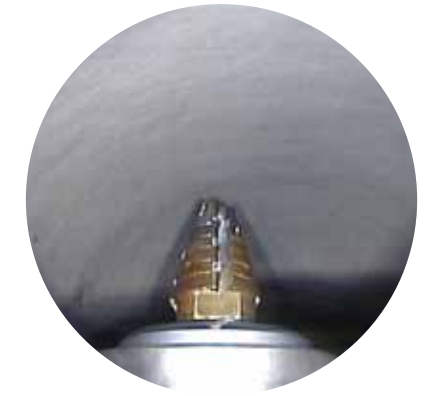


# GRINDING MILLING AND CUTTING

High power and precise controls allow fast, smooth and accurate service lateral reinstatement, joint off-set corrections and cutting off hammer taps of any material. The cutter modules feature water-powered cutting motors and speed adjustable controls for operations in lined 6" to 28" pipelines (150- 750mm).



PROTRUDING TAPS



LATERAL REINSTATEMENT

## PROS

- + **Powerful** - water powered cutting motor
- + **Accurate** - adjustable control speeds
- + **Versatile** - with multiple job-specific modules\*
- + **Increased life expectancy** - water lubricated bearings and bits

\* Exchange the cutter module for a precision water jet cutting module or CCTV inspection module and take care of prepwork, pre- and post inspection with the same system.



HA125 > P35  
6-15" (150-375mm)



HA165 > P40  
8-15" (200-375mm)



HA195 > P41  
10-28" (250-700mm)





# CCTV INSPECTION & SPOT REPAIR



CCTV mainline inspection and installation of spot repair sleeves with the same transporter used for precision water jet cutting and lateral reinstatement. The mainline inspection & spot repair modules feature a pan & tilt camera and a pressure adjustable air coupling at the front, operated from the control unit to connect with the QLP160 spot repair and pressure testing packer, as well as a variety of other packers suitable for grouting and the installation of mechanical repair sleeves and part liners.

## PROS

- + Pressure adjustable air coupling for spot repair installations
- + Laser crack measurement
- + Camera module compatible with push reel
- + Compatible with NASSCO PACP POSM and Wincan



QLP160 > P43  
spot repair and pressure testing packer



CAM125 > P33  
6-15" (150-375mm)



CAM160 > P42  
8-15" (200-375mm)

## EASY-TO-USE SOFTWARE AND ERGONOMIC CONTROLS

All movements of the transporter, job specific modules and reels are operated from two programmable 6- axis joysticks. The ID-RIS operating software runs on a Touch Screen computer, displays live video and system data and features control buttons for the high pressure unit and other components.



## FEATURES

- Two 6- axis joysticks
- Customizable joystick settings
- Photo- and video capturing
- Compatible with NASSCO PACP licensed POSM and WinCan





## WHAT MAXIMUM WATER PRESSURE DO YOU NEED?

Getting the job done requires the **right water pressure**

ID-TEC high pressure units allow variable pressure control to adjust to different pipe materials and changing conditions. High pressure units are available with a maximum pressure of:

- + 7,250psi (500bar)
- + 14,500psi (1000bar)
- + 32,000psi (2200bar).

### REQUIRED\* MAX WATER PRESSURE

APPLICATION	MATERIAL	4GPM @ 7,250PSI (15LTR/MIN @500BAR)	5.3GPM @ 14,500PSI (20LTR/MIN @1000BAR)	6.8GPM @ 32,000PSI (25LTR/MIN @2200BAR)
GRINDING, MILLING AND CUTTING	CIPP LINER, PVC, BRICK, VERTRIFIED CLAY, CONCRETE, CAST IRON, & STAINLESS STEEL	✓	✓	✓
PRECISION JET CUTTING	FAT, OIL, GREASE, DEBRIS, ROOTS, MOST SCALE & CEMENT	✓	✓	✓
PRECISION JET CUTTING	MINERAL DEPOSITS, GROUT, CEMENT, CALCIUM & CONCRETE	✗	✓	✓
PRECISION JET CUTTING	EXTREMELY HARD MATERIALS	✗	✗	✓

\* RESULTS CAN VARY BASED ON INDIVIDUAL CONDITIONS

## PTO - ELECTRIC (HDE) HIGH-PRESSURE UNIT

The electric high pressure unit works in combination with a PTO (Power Take Off) powered generator to drive the electric pump motor, and provides electrical power for the entire vehicle.



HIGH PRESSURE UNITS > P26

### PROS

- + Less weight
- + Less space required
- + One engine running (cleaner)
- + More efficient
- + Less noise



PTO GENERATOR > P46

## COMBUSTION (HDM) HIGH-PRESSURE UNIT

The combustion engine driven high pressure unit features a Diesel or Gasoline motor to drive the pump. An additional inverter or generator is required to provide electrical power for the entire vehicle.



### PROS

- + Stand-alone
- + Certified tier 4 final emission

HIGH PRESSURE UNITS > P26



## CUSTOM BUILT VEHICLE

## EQUIPMENT COMPARTMENT

- + HYBRID CABLE REEL
- + HIGH PRESSURE HOSE REEL
- + WORK BENCH
- + ROBOT STORAGE
- + HEATER
- + JIB CRANE AND HOIST
- + WATER AND AIR CLEANING GUNS

WE'VE GOT THE POWER





## FRONT COMPARTEMENT

- + WATER TANK
- + HIGH PRESSURE UNIT
- + POWER DISTRIBUTION
- + AIR COMPRESSOR

## OPTIONAL EXTRAS

- + EXTRA HIGH-PRESSURE UNIT FOR FLUSHING
- + EXTRA HOSE REEL FOR FLUSHING
- + ROOF MOUNTED BEACONS AND STROBE LIGHTS
- + STAIRS OR STEP BUMPER
- + CLIMATE PACKAGE: COOLING
- + CLIMATE PACKAGE: CLOSED CIRCUIT RADIATOR HEATING SYSTEM

## CONTROL ROOM

- + DESK
- + CONTROL UNIT
- + TOUCH SCREEN PC
- + CABINetry
- + VICINITY CAMERA SYSTEM
- + AIR CONDITIONING
- + HEATING







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## COMPACT BOX



## CUSTOM BUILT 20FT STAND ALONE CONTAINER





## HIGH PRESSURE UNIT AND HOSE REEL FOR SEWERCLEANING

A high-flow pump unit HDE37F can be installed in combination with a cleaning hose reel for flushing and cleaning applications. This electric pump unit is powered by the same PTO generator as the pump for precision water jet cutting.

### HOSE REEL MH200HDL

Pressure/ flow: 2,030psi (140bar) 36gpm (135ltr/min)  
Hose length: 1", 500ft (150m)  
Dimensions: 57"x20"x68" (1451x510x1720mm)

### HD37F





# HIGH PRESSURE UNITS

HDE - HDM

FEATURES

- > Water pressure adjustable from control unit
- > Electronic over and under pressure monitoring
- > Electronic water pressure monitoring
- > Double wired remote control with emergency stop
- > Heavy-duty materials

ID-TEC high pressure units allow continuous pressure control to adjust to different pipe materials and changing conditions. High pressure units are available with maximum pressures ranging from 7,250psi to 32,000psi (500-2200bar) depending applications and are driven by a combustion engine or electrical motor in combination with PTO generator.



HDM37 – 14,500PSI (1000BAR)

AVAILABLE HIGH PRESSURE UNITS

HP-UNIT	MAX. PRESSURE	MAX. FLOW	POWERED	APPROX. WEIGHT	APPROX. DIMENSIONS	REQUIRED VEHICLE GVWR
HDM19	7,250psi (500bar)	4.0gpm (15ltr/min.)	Gasoline engine	484lbs (220kg)	L32"xW20"xH42" (1064x500x1125mm)	19,500lbs
HDE23	7,250psi (500bar)	5.6gpm (21ltr/min.)	PTO Electric (min. 30 KVA PTO)	484lbs (220kg)	L32"xW20"xH42" (1064x500x1125mm)	19,500lbs
HDE37	14,500psi (1000bar)	5.3gpm (20ltr/min.)	PTO Electric (min. 60 KVA PTO)	617lbs (280kg)	L30"xW35"xH35" (760x880x880mm)	26,000lbs
HDM37	14,500psi (1000bar)	5.3gpm (20ltr/min.)	Diesel (TIER 4)	2150lbs (970kg)	L80"xW30"x45" (20140x750x1150mm)	26,000lbs
HDE37F (flushing)	2,030psi (140bar)	36gpm (135ltr/min)	PTO Electric (min. 60 KVA PTO)	617lbs (280kg)	L30"xW35"xH35" (760x880x880mm)	33,000lbs
HDM105	32,000psi (2200bar)	5.6gpm (23ltr/min.)	Diesel (TIER 4)	3858lbs (1750kg)	L105"xW43"xH73" (2670x1080x1856mm)	33,000lbs





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ID-TEC HIGH PRESSURE UNITS  
ALLOW CONTINUOUS PRESSURE  
ADJUSTMENT AND MEET THE  
LATEST EMISSION STANDARDS!

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# HYBRID CABLE AND HIGH PRESSURE HOSE REELS

MH200R - MH200HD

The MH200 Hybrid Cable and High Pressure Hose Reels are installed in heavy duty Stainless steel frames with standard 400' (135m) of cable and high pressure hose. The reels feature cross- lead spindles, adjustable speeds and distance measurement and are controlled individual or simultaneous from the reels, the Control Unit or a remote control.

## HYBRID CABLE REEL

The kevlar protected hybrid cable holds wiring for power, video and communication around an air supply hose for the pneumatic movements and positive pressure inside the transporter and modules.

## HIGH PRESSURE HOSE REEL

The high-pressure hose supplies water under pressure for precision water jet cutting or reinstatement cutting operations. The standard 3/8" high pressure hose can be used with pressures up to 14,500psi(1000bar) and special hoses are available for pressures up to 32,000psi(2200bar).

## SPECIFICATIONS

Standard length: 400' (135m)

Dimensions DxWxH: 33"x20"x40" (820x500x1064mm)

## FEATURES

- > Controlled from reels, control unit or remote control
- > Distance measurement
- > Cross lead spindle
- > Adjustable speeds
- > Torque regulated synchronization
- > Loop detection sensor
- > Stainless steel frame
- > Double wired remote control with emergency stop





## TRANSPORTER CRAWLER

### R125 6" (150MM)

The heavy duty stainless steel R125 Transporter is modular and compatible with various job- specific equipment modules for underground pipe inspection, cleaning, cutting and rehabilitation from lined 6"-15" (150-375mm) pipes. The compact R125 features a powerful 4x4 drivetrain, 500 degrees rotation and the twist-and-lock mechanism to exchange equipment modules within 60 seconds. The R125 uses the same control unit, high pressure unit, cable reel and high pressure hose reel platform as the R160.

#### AVAILABLE R125 COMPATIBLE MODULES

**WJ125** Precision Water Jet Cutting Module

6" - 15"(150-375mm)

**HA125** Lateral Reinstatement Cutting Module

6" - 15"(150-375mm)

**CAM125** CCTV Inspection and Spot Repair Module

6" - 15"(150-375mm)

#### SPECIFICATIONS

**Scope of use:** 6"-15" (150-375mm)  
**Powertrain:** Electrical all wheel drive  
**Rotation (pan):** 500° electrical

#### FEATURES

- > Twist-and-lock-mechanism
- > Heavy-duty stainless steel
- > Roll and Pitch sensors (x-y)
- > Rotation sensor
- > Continuously pressurized
- > Temperature monitoring

## CCTV INSPECTION AND SPOT REPAIR MODULE UNITS



### CAM125 6"-15" (150-375MM)

The CAM125 CCTV inspection and spot repair module features a pan and tilt camera and an air coupling at the front for CCTV main line inspections and spot repair installations in 6" - 15" (150-375mm) pipelines. The control software can be used in combination with NASSCO PACP licensed WinCan and POSM inspection software.

#### SPOT REPAIR INSTALLATIONS

The CAM125 module features a pan & tilt camera and a pressure adjustable air coupling at the front, operated from the control unit to connect with the QLP160 spot repair and pressure testing packer, as well as a variety of other packers suitable for grouting and the installation of mechanical repair sleeves and part liners.

#### SPECIFICATIONS

**Scope of use:** 6"-15" (150-375mm)  
**Air coupling:** max. 145 psi (10bar)  
**Camera Pan:** max. 230 degrees  
**Location transmitter:** 512 MHz

#### FEATURES

- > Compatible with R125 transporter
- > Air coupling for spot repair packers
- > Infinite rotating color camera
- > Manual focus
- > Auto horizon adjustment
- > Intensity adjustable LED lighting
- > Camera compatible with push cable
- > Compatible with NASSCO PACP licensed POSM and WinCan
- > Heavy-duty materials
- > Laser crack measurement (optional)



## PRECISION WATER JET CUTTING MODULE



### WJ125 6"-15" (150-375MM)

The WJ125 Precision Water Jet Cutting module is compatible with the R125 Transporter for removing root balls, hardened fat, grease, cement, scale, calcium and mineral build- up and over- poured concrete from within 6" - 15" (150-375mm) pipes. The WJ125's jetting arm features 8" (210mm) arm lift and 120 degrees nozzle- tilt to ensure the right working angle in small pipelines and service lateral connections. The camera and LED lighting are placed behind the water jet. A variety of nozzles and water pressures up to 14,500psi (1000bar) can be used.

#### SPECIFICATIONS

<b>Scope of use:</b>	6" - 15" (150-375mm)
<b>Water pressure:</b>	max. 14,500psi (1000bar)
<b>Nozzle tilt:</b>	120°
<b>Ram lift:</b>	8" (210mm)

#### FEATURES

- > Heavy- duty materials
- > Color camera
- > Compatible with rotary and cutting nozzles
- > Ajustable LED lighting
- > Sapphire lenses
- > Air lens cleaner
- > Twist-and-lock mechanism

## LATERAL REINSTATEMENT CUTTING MODULE



### HA125 6"-15" (150-375MM)

The HA125 lateral reinstatement cutter module is compatible with the all wheel driven R125 Transporter and built for lateral reinstatement and cutting protruding taps and services from 6" - 15" (150-375mm) pipelines. The 125 cutter arm features 8" (205mm) arm lift and 90 degrees pivoting of the cutter motor. ID-tec's compact, but very powerful, water driven, cutter motor delivers 2.8HP for fast lateral reinstatement and cutting protruding taps with precision and a smooth cut.

The water lubricates the ceramic bearings and provides cooling to the cutter bit, which increases the life expectancy of the equipment.

#### SPECIFICATIONS

<b>Scope of use:</b>	6" - 15" (150-375mm)
<b>Cutter motor:</b>	2.8HP Water driven
<b>Ram lift:</b>	8" (205mm)
<b>Motor pivoting:</b>	90°

#### FEATURES

- > Compatible with R125 Transporter
- > Color camera
- > Compatible with Diamond and Carbide cutting and milling bits
- > Adjustable LED lighting
- > Speed adjustable 4 axis movements
- > Air lens cleaner
- > Heavy-duty materials





# TRANSPORTER CRAWLER

## R160 8" (200MM)

The heavy duty stainless steel R160 Transporter is compatible with various job- specific equipment modules for underground pipe inspection, cleaning, cutting and rehabilitation from lined 8" (200mm) pipes and larger with a variety of wheels and spacers. The R160 features a powerful 4x4 drivetrain, 500 degrees rotation and the twist-and-lock mechanism to exchange equipment modules within 60 seconds. The R160 uses the same control unit, high pressure unit, cable reel and high pressure hose reel platform as the R125.

### AVAILABLE R160 COMPATIBLE MODULES

**WJ160** Precision Water Jet Cutting Module 8" - 15"(200-375mm)

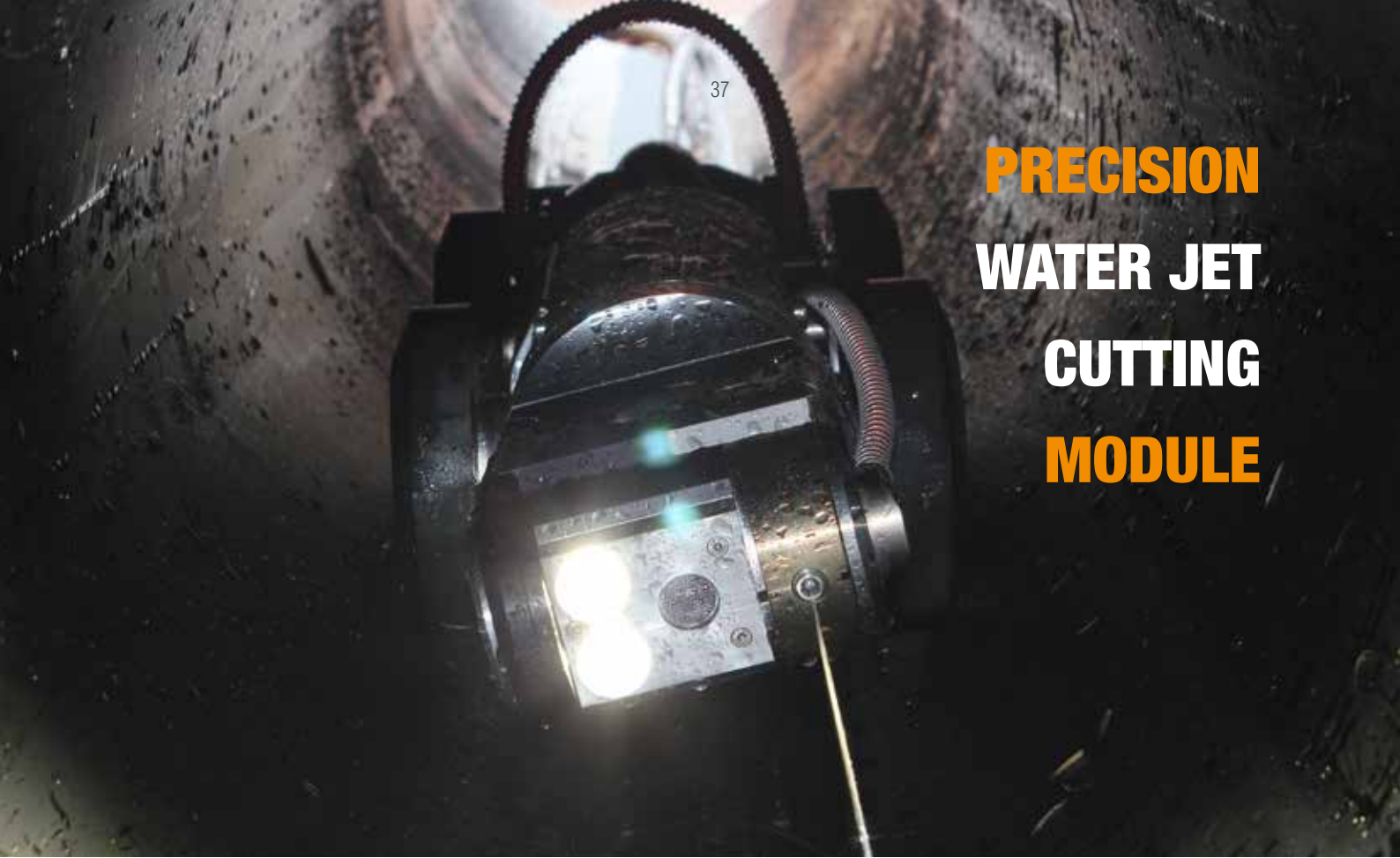
**WJ180** Precision Water Jet Cutting Module 8" - 20"(200-500mm)

**WJ190** Precision Water Jet Cutting Module 10" - 36"(250-900mm)

**HA165** Lateral Reinstatement Cutting Module 8" - 15"(200-375mm)

**HA195** Lateral Reinstatement Cutting Module 10" - 28"(250-750mm)

**CAM160** CCTV Inspection and Spot Repair Module 8" - 15"(200-375mm)



# PRECISION WATER JET CUTTING MODULE

## WJ160 8"-15" (200-375MM)

The WJ160 Precision Water Jet Cutting module with front facing, infinite tilting, color camera provides a non- obstructed view when navigating through 8" - 15" (200-375mm) pipelines. The WJ160 is compatible with select cutting nozzles and water pressures up to 14,500ps (1000bar) to take care of root balls, hardened fat, grease and cement from pipes and lateral connections.

## SPECIFICATIONS

- Scope of use:** 8" and up (200mm)
- Powertrain:** Electrical all wheel drive
- Rotation (pan):** 500° electrical
- Dimensions:** L17.3" x W5.8" x H5.2" without module and weights (L440xW147xH132mm)

## FEATURES

- > Twist-and-lock-mechanism
- > Heavy-duty stainless steel
- > Roll and Pitch sensors (x-y)
- > Rotation sensor
- > Continuously pressurized
- > Temperature monitoring

## SPECIFICATIONS

- Scope of use:** 8"-15" (200-375mm)
- Nozzle and camera tilt:** Infinite

## FEATURES

- > Sapphire lenses
- > Heavy-duty materials
- > Adjustable LED lighting
- > Twist-and-lock mechanism





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## PRECISION WATER JET CUTTING MODULE

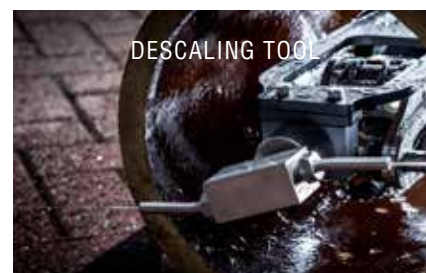


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## PRECISION WATER JET CUTTING MODULE

### WJ180 8"-20" (200-500MM)

The WJ180 Precision Water Jet Cutting module is compatible with the R160 Transporter for removing root balls, hardened fat, grease, cement, scale, calcium and mineral build- up and over- poured concrete from within 8" - 20" (200-500mm) pipes. The WJ180 module has a pan and tilt nozzle- attachment at the front that can be used with a variety of nozzles and water pressures up to 32,000psi (2200bar). The water jet cutting module features a camera with LED lighting that moves with the nozzle for clear vision through the cutting process.



### WJ190 10"-36" (250-900MM)

The WJ190 Precision Water Jet Cutting module is compatible with the R160 Transporter for removing root balls, hardened fat, grease, cement, scale, calcium and mineral build- up and over- poured concrete from within 10" - 36" (250-900mm) pipes. The WJ190's jetting arm features 11" (270mm) arm lift and 100 degrees nozzle- tilt to ensure the right working angle in larger pipelines. The camera and LED lighting are front-placed next to the water jet and tilt all together. A variety of nozzles and water pressures up to 32,000psi (2200bar) can be used. The front facing camera provides clear vision throughout the cutting process.

#### SPECIFICATIONS

**Scope of use:** 8" - 20" (200-500mm)  
**Water pressure:** max. 32,000psi (2200bar)  
**Nozzle tilt:** 90°

#### FEATURES

- > Heavy- duty materials
- > Compatible with rotary and cutting nozzles
- > Rotating color camera
- > Air and water lens cleaner
- > Sapphire lenses
- > Twist-and-lock mechanism
- > Adjustable LED lighting
- > Compatible with rotating lances
- > descaling tool

#### SPECIFICATIONS

**Scope of use:** 10"-36" (250-900mm)  
**Ram lift:** 11" (270mm)  
**Nozzle and camera tilt:** 100°

#### FEATURES

- > Heavy- duty materials
- > Compatible with rotary and cutting nozzles
- > Front facing color camera
- > Sapphire lenses
- > Twist-and-lock mechanism
- > Adjustable LED lighting





# LATERAL REINSTATEMENT CUTTING MODULE

# LATERAL REINSTATEMENT CUTTING MODULE

## HA165 10"-28" (250-750MM)

The HA165 lateral reinstatement cutter module features an infinite rotating, front- placed, color camera and is compatible with the all wheel driven R160 Transporter for lateral reinstatement and cutting protruding taps and services from 8" - 15" (200-375mm) pipelines. The HA165 module features a 3" (75mm) vertical lift and can be used with IDTec's powerful, water driven, cutter motors that deliver 3.4 or 7.8 Horse Power for fast lateral reinstatement with precision and a smooth cut. The water lubricates the ceramic bearings and provides cooling to the cutter bit, which increases the life expectancy of the equipment.



## HA195 10"-28" (250-750MM)

The HA195 lateral reinstatement cutter module is compatible with the all wheel driven R160 Transporter and built for lateral reinstatement and cutting protruding taps and services from 10" - 28" (250-750mm) pipelines. The 195 cutter arm features 11" (270mm) arm lift and 90 degrees pivoting. ID-tec's powerful, water driven, cutter motors deliver 3.4 or 7.8 Horse Power for fast lateral reinstatement with precision and a smooth cut.

The water lubricates the ceramic bearings and provides cooling to the cutter bit, which increases the life expectancy of the equipment.

### SPECIFICATIONS

- Scope of use:** 8"-15" (200-375mm)
- Cutter motor:** 3.4HP (@18,000rpm) or 7.8HP (@4,000rpm)
- Cutting motor lift:** 3" (75mm)

### FEATURES

- > Compatible with R160 Transporter
- > Compatible with Diamond and Carbide cutting and milling bits
- > Infinite rotating color camera
- > Water lens cleaner
- > Adjustable LED lighting
- > Speed adjustable 3 axis movements
- > Heavy-duty materials

### SPECIFICATIONS

- Scope of use:** 10" - 28" (250-750mm)
- Cutter motor:** 3.4HP (@18,000rpm) or 7.8HP (@4,000rpm)
- Ram lift:** 11" (270mm)
- Motor pivoting:** 90°

### FEATURES

- > Compatible with R160 Transporter
- > Compatible with Diamond and Carbide cutting and milling bits
- > Rotating color camera
- > Air and water lens cleaner
- > Adjustable LED lighting
- > Speed adjustable 4 axis movements
- > Heavy-duty materials





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## CCTV INSPECTION AND SPOT REPAIR MODULE

**CAM160** 8"-15" (200-375MM)

The CAM160 CCTV inspection and spot repair module features a pan and tilt camera and an air coupling at the front for CCTV main line inspections and spot repair installations from 8" - 15" (200-375mm) pipelines. The software can be used in combination with NASSCO PACP licensed WinCan and POSM inspection software..

### SPOT REPAIR INSTALLATIONS

The CAM160 module features a pan & tilt camera and a pressure adjustable air coupling at the front, operated from the control unit to connect with the QLP160 spot repair and pressure testing packer, as well as a variety of other packers suitable for grouting and the installation of mechanical repair sleeves and part liners.

### SPECIFICATIONS

<b>Scope of use:</b>	8"-15" (200-375mm)
<b>Air coupling:</b>	max. 145 psi (10bar)
<b>Camera Pan:</b>	max. 230 degrees
<b>Location transmitter:</b>	512 MHz

### FEATURES

- > Compatible with R160 transporter
- > Air coupling for spot repair packers
- > Infinite rotating color camera
- > Manual focus
- > Auto horizon adjustment
- > Intensity adjustable LED lighting
- > Camera compatible with push cable
- > Compatible with NASSCO PACP licensed POSM and WinCan
- > Heavy-duty materials
- > Laser crack measurement (optional)

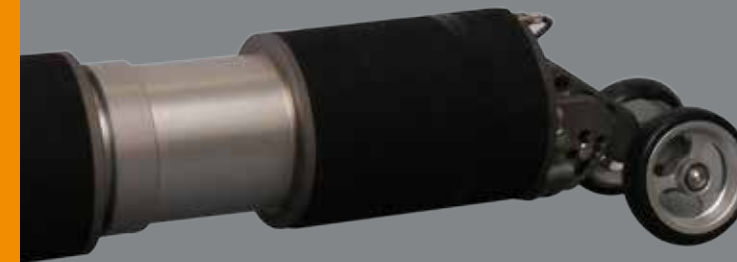
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**QLP160** 8"-12" (200-300MM)

## SPOT REPAIR AND PRESSURE TESTING PACKER



The QLP160 is a 2-in-1 packer for installation of mechanical spot repair sleeves and pressure testing of joints and repairs. The packer could be attached to any CCTV inspection robot, including the SR-Series CAM160 module to load repair sleeves from inside the pipe and install them. After the installation of a spot repair the integrity could be verified by pressure testing with the same packer.



DEFLATED



INFLATED

### LOADING REPAIR SLEEVES INSIDE THE PIPELINE

The QLP160 features pneumatic retractable front wheels for loading sleeves by driving through and partially inflate the two bladders. After loading, the repair sleeve is positioned by driving the transporter. Once in place, the bladders are inflated and the repair sleeve installed.

### PRESSURE TESTING

The space between the two bladders of the QLP160 can be extended to perform pressure tests to verify joint connections and installed repair sleeves.

### EASY TO USE AND CERTIFIED SOFTWARE

The QLP160 2-in-1 packer can be operated from an independent control unit or from the ID-RIS software when using the SR-Series. The control software is easy-to-use and compatible with NASSCO PACP certified WinCan and POSM software to include test results in the inspection report.



The VRM100 mixing unit allows precise dosing of root control and grease removal additives for controlled spot treatments with precision water jet cutting equipment. The modular dosing unit is compatible with all precision water jet cutting modules and installed between high-pressure unit and hose reel. Operation takes place from the control unit and special software.

ROOT CONTROL

By using chemical root control you can remove roots further inside service laterals and inhibit their growth without having to fill the complete line with foam.

GREASE REMOVAL

Adding a grease remover encapsulates and dissolves Fats, Oils and Greases to remove blockages and prevent recollection and settlements further down the line.

MIXING UNIT  
VRM100



SPECIFICATIONS

Compatible with: All precision water jet cutting modules (WJ125, WJ160, WJ180 and WJ190)  
Dimensions: 20"x12"x32" (300x500x900mm)

PROS

- + Efficient spot treatment
- + Removes roots inside service laterals
- + Powerful root removal
- + Dissolves FOG to prevent new blockages down the line
- + Inhibit root growth

HYDRO POWERED  
CUTTING MOTORS

WM300 | WM500 | WM200

The SR-Series compatible, water driven, WM300, WM500 and WM200 cutting motors deliver 3.4 and 7.8 HP for fast reinstatement and a precise and smooth cut. The motors feature a compact and durable design, with water lubricating the ceramic bearings and cooling the material and cutter bit, which increases the life expectancy. ID-tec cutter motors are compatible with standard available M14 cutting and milling bits



WM300		WM500		WM200	
Power:	2,000 watt (2.8HP)	Power:	2,500 watt (3.4HP)	Power:	6,000 watt (8.2HP)
Speed:	max. 25,000 rpm	Speed:	max. 18,000 rpm	Speed:	max. 4,000 rpm
Motor type:	Turbine	Motor type:	Turbine	Motor type:	Piston
Water consumption:	2.5...5.3 gpm	Water consumption:	2.5...5.3 gpm	Water consumption:	2.5...5.3 gpm
Water pressure:	3,000psi	Water pressure:	2,900...7,250psi	Water pressure:	max. 2,900psi
Dimensions:	Ø2.16"xH3.9"	Dimensions:	Ø2.95"xH3.9"	Dimensions:	Ø2.95"xH5.1"



# PTO POWER SUPPLY



PTO GENERATORS	
MP16	16KVA
MP30	30KVA
MP60	60KVA
MP160	160KVA

PTO units are driven by a vehicle's engine Power Take Off. The small and leightweight unit is mounted under-neath the chassis. A drive shaft connects the engine with the unit that transforms rotation into electricity, high-pressured water, compressed air, hydraulics or a combination. Vehi- cle engines are efficient on fuel, quiet and clean meeting latest EPA requirements.meeting latest EPA requirements.

“LIGHTWEIGHT, SMALL, QUIET, FUEL-EFFICIENT, CLEAN AND POWERFUL.”



ELECTRICTY

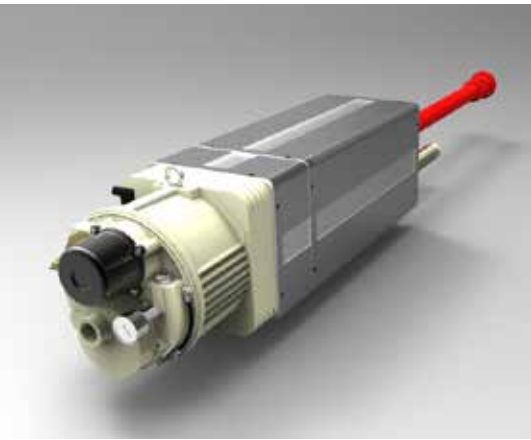
Various PTO generators are available to supply sufficient power for your application or to drive high-pressure unit, cable reels, robot drives and other accessories in the truck from 16KVA up to 160KVA.



HIGH-PRESSURE UNIT

PTO driven High-pressure units are available for installation under any vehicle with a PTO. This compact and lightweight solution provides up to 5.2gpm @13,000psi. More than enough for lateral reinstatement and cutting protruding taps with the SR-SERIES cutting equipment and to remove a root ball with SR-SERIES precision water jet cutting equipment.

“COMPATIBLE WITH ANY VEHICLE THAT FEATURES A PTO ”



COMPRESSOR

A PTO compressor makes it unnecessary to tow a large and heavy compressor trailer to every job site and provides compressed air up to 475gpm @ 190psi.

HYBRID

The MobilPower PTO hybrid is designed for situations that require more than just electricity. The hybrid unit features the combination of a generator and a high-pressure unit, air compressor or hydraulic pump.



# LARGE DIAMETER PIPE AND TANK CLEANING

## TWK300 40"-120" (1000-3000MM)

The TWK300 drive is a self-propelled system with rotating lances and pressure switched front facing nozzles for cleaning close to the surface and the heads of large diameter pipelines and horizontal tanks with a diameter of 40" - 120" (1000-3000mm). The TWK300 drive can be used with pressures up to 22,000psi (1500bar) and features a pneumatic foldable arm to fit 17" (400mm) and larger access points (manhole). The swiveling rotor features two exchangeable lances for intense cleaning close to the surface. By switching the mechanic pressure valve the front facing nozzles in the rotor are activated to clean tank heads with the same equipment. The TWK300 drive can be used with hot water or chemicals and is Atex Explosion Zone 1 certified. CCTV camera module, Vacuum debris removal and Atex Explosion Zone 0 Certification are optional.

### COMPATIBLE HIGH-PRESSURE UNITS

The TWK300 drive can be used with ID-tec high-pressure units for ultra high pressure cleaning or in combination with a flusher truck for large diameter cleaning.



## TWK300 SPECS



### SPECIFICATIONS

Scope of use:	40" – 120" (1000-3000mm)
Min. Access Diameter:	16" (400mm)
Max. Pressure:	21gpm @ 22,000psi (80ltr./min@1500bar)
Max. Rotation:	1000 RPM
Temperature:	34-194°F (1-90°C)
Weight:	99lbs (45kg)
Dimensions:	L33.5"xW14"x H16" (850x350x400mm)

### FEATURES

> Corrosion Resistant Materials	> CCTV Camera Module (optional)
> Submergible	> Vacuum Debris Removal (optional)
> Water Hydraulic driven	> ATEX Explosion Zone 0 Certification (optional)
> Atex Explosion Zone 1	



# VIDEO CLEANING NOZZLE

COMPATIBLE WITH HIGH-PRESSURE UNITS



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## C70 6" - 28" (150-700MM)

The C70 nozzle captures video while cleaning pipelines of 6" – 28" (150-700mm) diameter. It features 7 exchangeable jet inserts for pipe cleaning and HD camera module with auto-upright picture.

The operator then may instantly review the video to determine the cleanliness of the line, or use custom software (optional) to assess the pipe condition before moving on to the next job.

### WIRELESS COMMUNICATION WITH TABLET

This completely self-sufficient system is battery-powered, stores the video recordings on a SD-card in the nozzle, which can be downloaded to the included tablet via integrated Wi-Fi, as soon as the nozzle is visible down in the manhole.

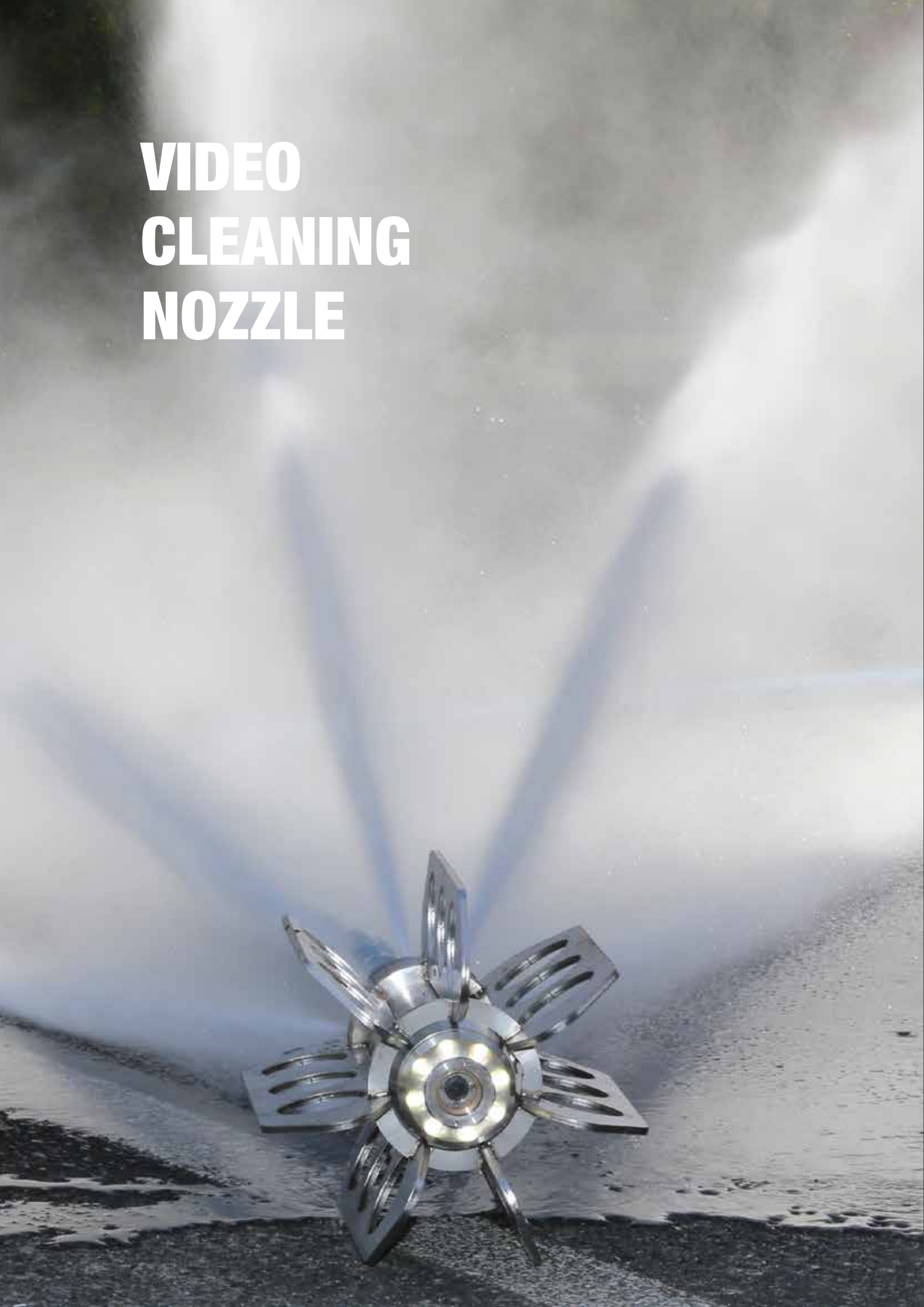
### OVER 8 HOURS BATTERY LIFE

The C70 camera nozzle has internal memory and a battery life for at least 8 hours of operation. A mechanical pressure switch inside the camera nozzle activates or turns-off lighting, ensuring that the powerful LED's are turned-on only when the jetter is in action.



The C70 system comes with a C70 video nozzle, tablet, software, jet inserts and battery charger.





# VIDEO CLEANING NOZZLE

C 70 6" - 28" (150-700MM)

## SPECIFICATIONS

Scope of use:	6" - 28" diameter pipelines (150-700mm)
Jet angle:	20 degrees
Hose connection:	1 1/4", 1" and 3/4" fitting
Flow:	40 - 170 GPM 150 - 650 ltr/min
Pressure:	2000 - 4000psi (125-275bar)

## FEATURES

> High-definition camera	> Over 8-hour battery runtime
> Self-leveling camera	> Wireless video downloading
> 7 pressure switched LEDs	> Over 8-hour video memory
> Can be fully submerged	



NOZZLES

Rotary nozzle						
Compatible with WJ180 Precision jet cutting equipment						
Usage: Removing FOG, deposits, roots, roughening surfaces						
Article No.	Max. Pressu- re psi (bar)	Min. Pressu- re psi (bar)	Min. Flow gpm (l/min.)	Jet angle	Ø mm	Length mm
MJ2	14,500 (1000)	2,600 (180)	1 (4)	20°	50	134
MJ3	11,600 (800)	1,900 (131)	1 (4)	20°	43	109
MJ4	7,250 (500)	1,500 (104)	1 (4)	22°	43	109



Cutting nozzle				
Compatible with WJ180 Precision jet cutting equipment				
Usage: Removing cement, calcium and concrete				
Article No.	Max. Pressure psi (bar)	Nozzle Ø mm	Ø mm	Length mm
A073	29,000 (2000)	0,8	8/12	12
A074	29,000 (2000)	0,9	8/12	12
A075	29,000 (2000)	1,0	8/12	12



Cutting nozzle				
Compatible with WJ160 Precision jet cutting equipment				
Usage: Removing FOG, deposits, roots				
Article No.	Max. Pressure psi (bar)	Nozzle Ø mm	Thread	Length mm
P	15,000 (1000)	-	M10	19



CUTTER TOOLS

Diamond Taper Milling Cutter, 9 segments rotation-optimized					
Article No.		DN mm	Ø mm	Height mm	Segments
H1	H2				
20004 P	21004 P	300 - 600	52 / 42	40	9
20001 P	21001 P	200 - 300	52 / 46	25	9



Diamond Inlet Milling Cutter rotation-optimized					
20015 P	21015 P	250 - 600	68	33	16
Usage: Preparing laterals, milling of intruding laterals					



Inlet Milling Cutter					
Article No.		DN mm	Ø mm	Height mm	Segments
Type R	Type U				
BL 11409	-	250 - 600	55	30	28



Taper Milling Cutter with Carbide tip					
BL 11403	-	250 - 600	28 / 18	45	4
-	BL 11403 U	250 - 600	30 / 15	45	U
BL 11439		250 - 600	44	40	22
Usage: Preparing laterals, milling of intruding laterals and inliner / Opening of laterals					
Note: Not made for reinforced concrete!					



Single section and Cup brushes			
Article No.	Description	Ø mm	Fitting mm
80018	Single section brush	100	22,2
80020	Cup brush	65	45M14



Extensions		
Stainless steel		
Article No.	Ø mm	Fitting mm
90120	30	30
90121	30	40
90122	30	50



Adapter			
Stainless steel tot attach brushes and sawblades			
Article No.	Description	Ø mm	Height mm
90112	Adapter	30	25
SP 90110	Tension disk for Adapter		





# WHAT CHALLENGES CAN WE HELP YOU WITH?

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