# SELECTION GUIDE

CURED-IN-PLACE-PIPE					
Company	Product/Type	Mainline, Lateral Sectional	Inversion/Cure Process	Pull In Diameter Range (in)	Inversion Diameter Range (in
Applied Felts	Felt and fiberglass-reinforced liners	mainline, laterals, sectional	steam, hot water, ambient	4-120	4-120
	Calibration Tubes	mainline, lateral	steam, water, UV, ambient	4-36	4-36
	EnviroCure Styrene Impermeable Liner	mainline	steam, water, UV, ambient	4-120	4-120
C.I.P.P. Corp.	Felt Liner	lateral	steam, water cure	4-108	4-108
Emagineered Solutions, Inc.	The Shooter CIPP	mainline	air/water inversion; steam, hot water, LED/UV		4-24
Flow-Liner Systems	CIPP System	mainline, lateral, sectional	air/steam, ambient		2-12
	Liners	mainline, lateral, sectional	air/steam, ambient		2-12
	Resins	mainline, lateral, sectional	air/steam, ambient		2-12
Granite Inliner	CIPP	mainline	steam, water, uv cure	4-120	4-120
HammerHead Trenchless	HELIAM Scrim Liner	lateral	bluelight LED, water, ambient	3-6	3-6
	HELIAM Transitional Scrim Liner	lateral	bluelight LED, water, ambient	4-6	4-6
	HH LED Liner	lateral	bluelight LED	6-10	6-10
	HH Flex LED Liner	lateral	bluelight LED	3-6	3-6
	HH Flex Liner	lateral	steam, water, ambient	4-8	4-8
	Wovo/Brawoliner	lateral	steam, water, ambient	2-8	2-8
	Wovo/Brawoliner	3D lateral	steam, water, ambient	3-8	3-8
	RS CityLiner	mainline	steam, water, ambient	6-48	6-48
	RS Blueline	mainline	steam, water, ambient	6-48	6-48
	RS CityMain	mainline	steam, water, ambient	6-48	6-48
	Point Repair	sectional	ambient	3-72	3-72
Infrastructure Repair Systems	Point Repair	sectional		3-100	
Inland Pipe Rehabilitation (IPR)	Invert-a-Pipe	mainline	steam & water	n/a	6-120
InnerCure Technologies	Coated & uncoated fiberglass calibration tubes	mainline, laterals, connections, sectional		3-18	3-24
Insituform Technologies	CIPP	lateral, mainline	air, water inversion steam, water cure	4-108	4-108
Interplastic Corporation	CIPP resin	mainline, lateral, sectional	steam, water, ambient, UV	4-120	4-120
LMK Technologies	Lap Liner	main, lateral	ambient		4-24
	T-Liner	main, lateral	air/steam, ambient		6-36
	Shorty	main, lateral	air/steam, ambient		6-24
	Stubby	main, lateral	air/ambient		6-36
	Performance Liner Lateral Liner	lateral	air/steam, ambient		2-8
	Push-In-Place Spot Repair	lateral	air/steam, ambient		486
	Invert-In-Place Spot Repair	lateral	air/steam, ambient		486
	Performance Liner Sectional Inversion	sectional	air/steam, ambient		6-42
Liner Products	Felt Liner	lateral, mainline	air, water inversion, steam, water cure	4-120	4-120
Masterliner	CIPP	mainline, lateral, sectional	steam, water, air cure	up to 75	up to 75
MaxLiner USA	CIPP	lateral, vertical	steam, hot water, ambient	2-10	2-10
Manufactured Technologies Corp.	Felt liner	taterat, verticat	air, water, inversion, steam cure	6-96	6-96
National Liner	CIPP		air, water, inversion, steam cure	4-108	4-108
NuFlow	NuDrain Precision Push/Pull in Place	lateral coctional	,	1.5-12; custom to 96	4-100
Nurlow		lateral, sectional	ambient, steam, hot water UV/LED	3-6	
	NuCure Cold Cure UV (CCUV)	lateral, sectional		3-0	2.12
DALTEM	NuTube I(nversion	mainline, lateral	ambient, steam, hot water		2-12
PALTEM	Super-HL	mainline	inversion/steam or ambient		8 - 40
Perma-Liner Industries	Perma-Liner Inversion	lateral	inversion	2.0	2-8
	Perma-Lateral Pull-in	lateral		2-8	0
	Perma-Patch Lateral Spot	lateral	spot	4	8
	Perma-Main Continuous Lining	mainline		6.04	6-36
	Mainline Spot Repair	mainline		6-24	
Premier-Pipe USA	Felt Liner	lateral			4-108
PrimeLine Products	PrimeLiner	mainline, lateral, sectional point repair	steam hot water, ambient ambient	3-6 2-36	2-120
		F repair	UV-cured	6-72	6-72

WET-OUT SERVICES						
Company	Resin Type	Liner Type	Mainline/Lateral	Diameter Range (in.)		
Ferratex Solutions	polyester/vinylester	felt/fiberglass reinforcement	both	6-84		

Company	Product	Pipe Diameter (in)	Type Pipe	Insitu/New Pipe
APM Permaform	Permacast PL-8000 (centrifugally- cast-concrete)	30-120	metal, concrete, clay, brick culverts, sewer pipe	insitu
Epoxytec	CPP Sprayliner	32+	metal, concrete, clay, brick culverts, sewer pipe	insitu
GeoTree Solutions	GeoSpray/GeoSpray HCE/GeoSpray 61 Geopolymer Mortars	30+	CMP, concrete, brick, stone, storm, sewer, box	fully structural - insitu pipe-in-pipe
Granite Inliner	GeoKrete	36+	all	fully structural pipe-in-pipe
Inland Pipe Rehabilitation (IPR)	EcoCast	36+	all	insitu
Madewell Products	Mainstay ML-72-HP	24+	concrete, metal, storm, brick, clay	insitu
Quadex LLC	Quadex Lining System	30+	CMP, concrete, brick, stone	fully structural pipe- in-pipe
Sauereisen	SewerGard 210	48+	concrete, brick, metal	
SewperCoat by Imerys	SewperCoat PG-Wet Gunning	24+	concrete, brick, sewer, storm, clay, culverts, metal	insitu
	SewperCoat 2000HS- Dry Gunning	36+	concrete, brick, sewer, storm, clay, culverts, metal	insitu
SippTech	Manufactured-in- place Composite Pipe (MICP)	48-60	all	insitu AWWA Class IV
Sprayroq	SprayWall	36+	concrete, metal, culverts, storm drains, DOT, clay	fully structural pipe-in-pipe
The Strong Co.	Storm Seal	30-120	brick, sewer, stormwater, metal, concrete, clay, brick	fully structural pipe-in-pipe
Warren Environmental	301 & 501 epoxy series	4+	all	structural insitu

GROUT-IN-PLACE-PIPE					
meter Range (in)					
36+					
36+					
32+					

SPIRAL WOUND TECHNOLOGY					
Company	Product	Diameter Range (in)			
Danby	Panel Lok	36+			
ISCO Industries Inc.	Spirolite	up to 120			
Sekisui SPR Americas	SPR EX	8 - 42			
	SPR TF	36 - 80			
	SPR TM	32 - 217			

LIGHT CURED-IN-PLACE-PI	PE (CIPP)		
Company	Product	Туре	Diameter Range (in.)
C.I.P.P.	BKP Berolina	UV	up to 56
Granite Inliner	Inliner STX	UV	6-48
HammerHead Trenchless	BlueLight LED	LED	2-18
InnerCure Technologies Inc.	Coated & uncoated fiberglass	UV/LED	3-24
Insituform Technologies	iPlus Infusion	UV	6-15
Interplastic Corporation	UV Co-Rezyn-CIPP	UV	6-48
LightRay	LIR3	UV	3-6
Manufactured Technologies Corporation	iPlus Infusion	UV	6-15
MaxLiner USA	MaxLight	LED	4-10
NuFlow	NuCure Cold UV (CCUV)	UV/LED	3-6
	NuCure CCUV Large- Diameter Point Repair	UV/LED	8-12
	NuCure CCUV 2"	UV/LED	1-3
Pipeline Renewal Technologies	SpeedyLight+	UV LED	4-12
	LEDRig	UV LED	6-24
PrimeLine Products	PrimeLiner	UV	3-15
Reline America	Alphaliner	UV	6-60
SAERTEX multiCom	LINER Pressure	UV	8 - 48*
	LINER Premium	UV	6 - 63*
	LINER Type S+	UV	6 - 63*
	LINER Premium Type S+	UV	6 - 63*
	LINER H2O	UV	8 - 40*
	*Pull-in Diameter Range		

FOLDED PIPE						
Company	Product	Pipe Type	Diameter Range (in)	Pre-Heating		
IPEX USA LLC	Liner	PVC	6-30	Yes		
Miller Pipeline	EX Method	PVC	6-12	Yes		
United Pipeline Systems	Tite Liner	HDPE	4-48	No		

SLIPLINING	c			
Company	Product	Diameter (in)	Pipe Material	Available Lengths
Advanced	N-12 HDPE	4-60	high density polyethylene	13', 20'
Drainage Systems (ADS)	SaniTite HP	12-60	polypropylene	13', 20'
Systems (ADS)	HP Storm	12-60	polypropylene	13', 20'
Contech	A2 Liner	12-36	PVC resin (12454)	10', 20'
Engineered Systems	DuroMaxx	30-120	Steel Reinforced Polyethylene	14', 24'
systems	ULTRA FLO	18-120	ALT2 Corrugated Steel Pipe Polymer-Coated Steel Corrugated Pipe	10' - 40'
	HEL-COR	6-144	ALT2 Corrugated Steel Pipe Polymer-Coated Steel Corrugated Pipe	10' - 40'
	CORLIX	6-120	Aluminum	10' - 40'
	ALSP	5' - 40'	Aluminum Structural Plate	4.5' plate lengths
	Tunnel Liner Plate	4' - 15'	Steel or Aluminum	18" plate lengths
HOBAS Pipe USA	CC-FRP	18-126	centrifugally cast, fiberglass- reinforced polymer mortar	20' standard, shorter available
ISCO	Snap-Tite	6-63	HDPE	2'-50'
Primus Line Inc.	FFRP (flexible fiber- reinforced pipe)	6-20	PE/Kevlar	up to 8,200' in one shot
Thompson Pipe Group	FRPM Non-round FRPM	12-156	filament-wound, fiberglass- reinforced polymer mortar	10'-40'
Underground Solutions Inc.	Fusible PVC Pipe	4-36	PVC	20′, 30′, 40′
United Pipeline Systems	Tite Liner	4-54+	HDPE	1,000′

GROUT			
Company	Product	Viscosity	Application
Avanti Intl.	AV-100® Chemical Grout (acrylamide)*	1–2 cP @ 72°F (22°C) in solution	Chemically activated grout designed to stop water infiltration and stabilize soils in mainlines, laterals, manholes, and various other underground structures:  50+ years of successful, documented use  25-50+ year service life  Ultra low viscosity (like water)  Available as granular or liquid forms  Half-life of 362 years at 20% concentration determined by DOE
	AV-202® Multigrout Series	LV-650-800 cP Standard*-3,200-6,000 cP NTP-3,200-6,000 cP	Single-component grout designed to seal active water leaks in large cracks or joints in concrete structure and is often used in conjunction with Oakum:  Applications where high viscosity chemistry is required  Manhole sealing and pipe penetrations  Excellent choice for moving cracks and joints  EGP technique with Oakum
	AV-275 Soilgrout* with AV-276	30-55 cP	Two-component grout that reacts quickly with moisture to bind together and water-proof loose granular soil Fills voids on the exterior of below-grade structures Stops high flows in below-grade structures Stabilizes soil to prevent soil erosion, sink holes, sinking foundations
	AV-290 Fast-Set	Part A: 200 cP Part B: 600 cP	Dual-component hydrophobic grout that rapidly fills large voids on exterior of below-grade structures, where high-water flow is present. No water necessary:  Fill large voids below-grade  Stops high-volume leaks  Free rise expands up to 2,600%
	AV-330 Safeguard Series	Standard*—350-750 cP NTP—350-750 cP	Single-component grout that seals active leaks in below-grade structure in various cracks and joints, and offers added safety in confined spaces or where there is poor ventilation; e.g. utility vaults, basements:  Seals medium cracks or joints in concrete structures  Great for manholes and pipe penetrations  Can be used for underwater applications
	Ultrafine Cements from US Grout - SD* and VX		Composed of a finely ground mixture of Portland cement, pumice pozzolan, and dispersant. Small particl size (average of 3 micron) penetrates small fractures and fine soils:  BABA approved  Stable North America supply  Stabilizes weak soils  Seals seepage in mines, dams, and tunnels  Low permeability grout curtaining
	*NSF/ANSI/CAN 61 Drinking Water System	Components	
Logiball Inc.	PR-10 Chemical Grout	1-2 CPS in solution	Chemical grout to control groundwater infiltration in main-lines, joints, lateral connections $\theta$ laterals with remotely operated packers.
	Logiscell+	3500-5000 cps	Water activated Hydrophilic grout to seal active leaks in visitable structures (filling joints $\theta$ cracks, sealing pipe penetrations, filling voids). Working with dry oakum.
Prime Resins	Prime Flex 900 XLV	250-350 cps	Sealing leaks in extremely tight hairline cracks.
	Prime Flex 910	35-50 cps	Soil stabilization; curtain wall grouting; sea wall leak sealing. Hydrophobic, forms watertight, rock hard mass
	Prime Flex 920	120 cps	Soil stabilization, permeation grouting, void filling, gushing leak sealing, below-grade curtain grouting. Hydrophobic.
	Prime Flex 940	450-600 csp	Sealing active leaks in joints and cracks. Hydrophobic flexible foam.
	Hydro Gel SX	440-550 cps (20 cps at 8:1)	Sealing leaks; point repair grouting. Hydrophilic; for wet, below-grade environments such as manholes
	Prime Flex 985 (LX20)	270-280 cps	$\label{likelihood} Rigid polyurethane foam. Fills voids in/around structures; fills abandoned underground storage tanks and pipes.$
	AR 800	1-15 cps in solution	Soil stabilization, sealing joints and leaks in potable water pipes and waste water pipes. Hydrophilic, acrylat (acrylamide-free), elastomeric gel, primarily for geotech uses. Wide window of variable set time-field adjustable. Excellent penetration in sandy/silty soils. For void fill when expansive pressure is not desired.
	AR 870	2-7 cps in solution	Sealing leaks in concrete; sealing wastewater lateral joints and leaks; controlling water in tunneling ops, elevator pits, below-grade structures.
	Precision Lift 4.0/4.75	270-280 cps	Compaction grouting, slab lifting. Hydro insensitive, polyurethane structural foam.
	PR10L ACLM	1-2 cP @ 72° F in solution	Sealing leaks from infiltrating water or to deeply penetrate soils for stabilization. Thin as water for great penetration.
Sealing Systems	Aqua Seal	440 cps "B" side 200 cps "A"	Aqua Seal is an extremely reactive two side component hydrophobic polyurethane water stop system that can be injected into flowing water.
Spectrashield	SpectraGrout®	125cP	Hydrophilic grout used for stopping leaks, filling joints and cracks, sealing pipe penetrations, filling voids and stabilizing soil in wastewater structures

GROUTING	GROUTING EQUIPMENT							
TEST & SEAL PACKERS								
Company	Model	Pipe Diameter (in)	Туре					
Logiball Inc.	2001 J Series	6-21	round pipe (vcp, acp, concrete, pvc)					
	CMP Series	4-144	round pipe collapsible mainline test $\vartheta$ seal packers					
	Elliptical series	(14 x 23+)	test $\boldsymbol{\vartheta}$ seal grouting packers for elliptical concrete pipe					
	Box Culvert series	up to 120	custom made packers for box culverts					
	Flexible Push/Pull	4-10	flexible packers w/3-5ft grouting span					
	Log Span Flexible Grouting Packers	8-24	Flexible grouting packers with longitudinal spans up to 12 feet to grout longitudinal defects.					
CUES	Low Void	6-18	round					
	Collapsible	24-96	round					

#### **TEST & SEAL LATERAL PACKERS**

Company	Model	Mainline Diameter (in)	Lateral Diameter (in)	
Logiball Inc.	2001L series	6-30	4-6; 30	
	Man Entry Lateral Packer	30-42	4-8	
CUES	Logiball	6-30	3-8	

STRUCTURAL POINT REPAIR						
Company	Model	Mainline Pipe Diameter (in.)	Lateral Diameter			
CUES	CUES LOCK Stents	6-108	round			
	CUES LOCK Sealer Sleeeves	6-108	round			
	CUES LOCK End Sealers	6-108	round			
Flow-Liner Systems	Quick Lock Point Repair	4-32	round			
	Quick Lock End Cap	8-32	round			
GeoTree Solutions	RenewWrap	36+	CMP, concrete, brick, stone, storm, sewer, box			
Pipeline Renewal Technologies	Quick-Lock Point Repair	6-32	round			

Company	Product	Seal Application Size (in)	Seal Operating Pressures (psi
Cretex Specialty Products	Internal Manhole Chimney Seal	20-48	6 external
	Chimney Seal	20-48	n/a
	Internal Pipe Joint Seal	24-48	6 external
	External Manhole Joint Seal	32-120	13 external
	HydraTite Seal	18-216	150 external/300 internal
InnerCure Technologies Inc.	Internal joint seal	3-24	15 (external)
LMK Technologies	CIPMH	up to 36	150 external
Pipeline Renewal Technologies	Quick-Lock End Caps	6-32	
PrimeLine Products	NPC-internal joint seals	15-120	30' of head pressure
	NPC-external chimney seals	32-42	
	NPC-internal chimney seals	18-42	
	NPC-liner end seals	7.25-36	
Sauereisen	Manhole Chimney Seal No. F-88	12-60	35
Sealing Systems Inc.	Flex-Seal 2.0 internal chimney seal	n/a	40
	Gator Wrap external joint wrap	20-72	30' head pressure
	Infi-Shield uni-band external chimney seal	24-48	

MANHOLES				
ompany	Coating	Inserts	Liners	Inverts
PM Permaform	Yes	Yes	Yes	Yes
o-Dig manhole solutions since 1975 provided through world-wide network of highly trained applic				
herne	Yes	Yes	Yes	Yes
nerne Air-Loc Bladder Style Manhole Testers provide an efficient, cost-effective method of testing i	new, existing and rehabilitated man	nholes, per ASTM C 1244.		
retex Specialty Products	No	Yes	No	No
eading manufacturer of mechanical internal and external manhole frame-chimney seals, internal jo	oint seals, PRO-RING, external joint	t wraps, lid plugs, gaskets ar	id more.	
anby	No	No	Yes	Yes
ast-in-place new and rehab manholes using corrosion-resistent PVC liner with cementitious grout	for storm and wastewater structure	es for over 28 years.		
poxytec	Yes	No	Yes	No
poxytec offers coating solutions since 1979 to repair, rehabilitate, coat and line wastewater and wa	ter infrastructure.			
eoTree Solutions	Yes	No	Yes	Yes
eading manufacturer of geopolymer ining systems for spray or hand-applied (including GeoSpray a	nd GeoSpray HCE mortar solution	s).		
ranite Inliner	Yes	Yes	Yes	Yes
anholes renewal contractor with over 35,000 manhole restorations completed utilizing a portfolio	of comprehensive technologies th	nat include CIPMH and epox	cy-based methods.	
OBAS Pipe USA	No	Yes	Yes	No
egmental sections are utilized to rehabilitate manhole shafts. The corrosion resistance and high str				
rgmental sections are utilized to renabilitate mannote sharts. The corrosion resistance and high suc Ifrastructure Repair Systems	Yes	No	No	No
fragard, a durable topcoat and Chim Coat; a flexible mastic, trowel-on 100% solid epoxy rehab ma		V	V	V
CO Industries Inc.	Yes	Yes	Yes	Yes
oirolite: Custom-designed and -configured HDPE manholes offer lighweight strength and durability	, ,	•		
MK Technologies	No	No	Yes	No
stretchable, one-size fits most CIPP lining is designed to structurally renew manholes while elimina	ating inflow at its source. CIPMH ca	an be installed as a chimney	seal or full-depth manhole	lining.
ladewell Products Corporation	Yes	No	Yes	Yes
he Mainstay-branded restoration mortars and epoxy liners provide corrosion protection and structu	ural integrity through a unique pro	cess yielding single cure tim	ie.	
IcNeil Technologies Inc.	No	No	Yes	Yes
iplex Liners stop infiltration & deterioration. Composed of fiberglass, a non-permeable membrane,	, and epoxy resin. Bonds to wet or	dry surfaces. Manhole instal	lation: 6 hours.	
iller Pipeline	No	Yes	No	No
OV Fiber Glass Systems Manholes	No	Yes	Yes	Yes
on-corrosive FRP structural rehabilitation inserts, and new manhole or wetwell structures, per ASTI	M-D 3753. One-piece construction	stops I&I and H2S degradat	ion. H-20 Traffic Load rated	l; maintenance free
BIC, LLC	Yes	No	Yes	Yes
ructural, semi-structural or multilayer polymer liner systems for structures with damage from infilt	ration or corrosion.			
PG Industries	Yes	No	Yes	Yes
PG RAVEN 405 ultra-high-build epoxy lining system is a solvent-free, 100-percent solids coating w				
rimeLine Products	Yes	No	No	No
ased on advanced anti-microbioal epoxy mortar technology, the liner contains broad-spectrum an		from mold, mildew & bateri	at growth, and is nightly the	
luadex LLC (member of the Vortex family)	Yes	No	Yes	No
nce 1991, Quadex has been manufacturing and delivering the highest-quality geopolymer, hybrid			tructure rehab market.	
auereisen	Yes	No	Yes	No
auereisen manufactures an array of cements, calcium aluminate, 100% solids epoxies, urethanes ar	nd polyurethane grouts for stoppin	g water inflow and preventi	ng corrosion in wastewater	manholes.
ealing Systems	Yes	Yes	No	No
ealing Systems manufactures a variety of manhole rehab products: manhole inserts, coatings (exter	rnal & internal) and chemical grout			
ewperCoat by Imerys	Yes	No	Yes	Yes
ewperCoat has been providing owners challenged by biogenic corrosion with a long-lasting solution	on for over 30 years.			
pectrashield® Liner Systems	Yes	No	Yes	Yes
ops infiltration, prevents corrosion, and has a 10-year warranty.				
prayrog Inc.	Yes	No	Yes	Yes
ructural polyurethane that is self-priming, and provides infiltration control and fast return to servic				
andard Cement Materials	Yes	No	Yes	Yes
nce 1990, Minority Business Enterprise manufactures cementitious, geopolymer and calcium alum			. , , ,	
ne Strong Company	Yes	No	Yes	No
		ng against corrosion		
anhole rehab solution since 1989. The fast, cost-effective solution for stopping infiltration, restoring	ng structural integrity and protectin	ig against corrosion.		
nhole rehab solution since 1989. The fast, cost-effective solution for stopping infiltration, restoring restoring treen Environmental	ng structural integrity and protecting Yes	No No	Yes	Yes

ompany	Model	Pipe Size (in)	Pipe Length (ft)	Video	Camera	Adjust Focu
	Voyager High Definition HD400 WiperCam	6-70	1,200	HD		
ies Industries	7 7 7				mainline	yes
	Voyager High Definition HD TR400 Steerable Transporter (power camera lift)	6-72	1,200	HD	mainline	yes
	Voyager LP400 Laser Profiler	6-18	1,200	HD	mainline	yes
	Mobile Voyager High Definition System	6-72	800	HD .	mainline	yes
	Pathfinder PE3430/PE3530 WiperCam	6-70	1,200	color	mainline	yes
	Pathfinder TR3300 Steerable Transporter (manual camera lift)	6-24	1,200	color	mainline	yes
	Pathfinder TR3320 Steerable Transporter (power camera lift)	6-48	1,200	color	mainline	yes
	Pathfinder TR3400 Streerable Transporter (power camera lift)	8-72	1,200	color	mainline	yes
	Pathfinder LP3300 Laser Profiler	6-36	1,200	color	mainline	yes
	Mobile Pathfinder System	6-72	1,200	color	mainline	yes
	Illumi-Zoom PE2620/PE2720 Pan & Tilt Camera	6-100	2,000	color	mainline	yes
	Taurus TR2000 Track Transporter	6-24	2,000	color	mainline	yes
	Badger TR3001 Wheeled Transporter	8-48	2,000	color	mainline	yes
	Badger TR3030 Wheeled Transporter	8-48	2,000	color	mainline	-
			· · · · · · · · · · · · · · · · · · ·			yes
	Titan TR7000 Steerable Wheeled Transporter	18-100	2,000	color	mainline	yes
	Titan LP3300 Laser Profiler	18-96	2,000	color	mainline	yes
	RinnoVision Manhole Inspection System	15" wide	100' deep	color 4K	manhole	auto
	High cube truck build with any systems listed above					
	Van build with any systems listed above					
	Trailer build with any systems listed above					
	Grout truck builds					
	TrailBlazer Mobile Enclosure with Mobile Voyager/Mobile Pathfinder					
	Retrofit existing inspection vehicles with any systems listed above					
гс	Digital Universal Camera DUC	6-60	2,000	aida assa salas	mainline	, sinternal
CUES				side scan color		virtual
	Evolution Mainline	2-200	4,000	color	mini & mainline	yes
	LAMP II Lateral & Mainline Probe II	6 relined-36	1,500	color	mini & mainline	no
	OZ II Camera	6-200	N/A	color	mainline	yes
	Pipe Ranger Transporter	7-60	2,000	N/A	mainline	N/A
	Sonar Profiler	8-1,200	2,800	color	mainline	N/A
	Laser Profiler	6-90	N/A	N/A	mainline	yes
	Compact Pipe Ranger Transporter	5-30	1,500	color	mainline	yes
	Ultra Shorty III Transporter	5-30	1,500	color	mainline	yes
	OZ III-S Camera	6-72	N/A	color	mainline	-
			•			yes
	OZ4-HD Camera	6-72	N/A	color	mainline	yes
	Ultra Shorty 21 Transporter	6-36	1,500	N/A	mainline	N/A
	K2 Series	6-200	1,200	color	mainline	yes
	Steerable Mudmaster	24-200	2,000	N/A	mainline	N/A
	C550c Flexitrax Portable Mainline System	6-60	1,000	PTZ	mainline	yes
	C540c Flexiprobe Push Camera	2-12	500	color	lateral	no
virosight	ROVVER X 95	4+	+1,650'	color pan/ tilt/zoom	lateral, mainline	yes
9	ROVVER X 130	6+	+1,650'	color pan/tilt/zoom	mainline	yes
	ROVVER X 400	24+	+1,650'	color pan/tilt/zoom	mainline	yes
		8+		<u> </u>		
	ROVVER X Laser	0+	+1,650′	color pan/tilt/zoom, side-scan	mainline	yes
	ROVVER X Digisewer	8+	+1,650'	color side-scan	mainline	yes
	QuickView	6+	+400′	color zoom	manhole, mainline	
						yes
	VeriSight Pro	2+	+330′	color	drain, lateral	yes
	VeriSight Pro 360	4+	+330′	color pan/tilt	drain, lateral	yes
	JetScan HD Video Nozzle	6+	as long as jetter hose	color	mainline	no
arpoint	P550c Flexitrax Portable Mainline System	6 - 60	1,000	PTZ	mainline	yes
	P540c Flexiprobe Push Camera	2 - 12	500	color	lateral	no
osite Electronics	Private Eye 2	6-200	1,000	color	mainline	yes
	Cube	6-200	1,500	color	mainline	yes
	High Cube VMS	4-200	2,000	color	mainline	
						yes
	Van VMS	4-200	2,000	color	mainline	yes
	Trailer VMS	4-200	2,000	color	mainline	yes
	Gen2 Lateral Launch	4-24	500	color	mainline/lateral	no/yes
	TrakStar Camera	6-60	n/a	color	mainline	yes
	TrakStar II Camera	6-60	n/a	color	mainline	yes
	TranStar Transporter	6-30	2,000+	n/a	mainline	n/a
	TranStar II Transporter	6-24	2,000+	n/a	mainline	n/a
	ProTrak Crawler	6-30	2,000+	n/a	mainline	n/a
	Steerable Storm Drain Tractor	24-200	2,000+	n/a	mainline	n/a
	Mighty Mini Tractor	4-12	2,000	n/a	mini/mainline	n/a
	Pontoon	24-1,200	2,000	n/a	mainline	n/a
	SPC Push System	2-12	150-500	color	drain/lateral	no

Company	Model	Pipe Size (in)	Pipe Length (ft)	Air/Electric	Material	Motion
Aries Industries	LETS 6.0 - ST930 Camera	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline; self-leveling
	LETS 6.0 - PE3601 Mini Pan & Tilt Camera	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline; pan and tilt
	LETS 6.0 - LE3270 Transporter	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline
	High cube truck build with LETS 6.0 system	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline
	Van build with LETS 6.0 system	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline
	Retrofit existing inspection vehicle with LETS 6.0 system	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline
	Trailer build with LETS 6.0 system	relined 6-48	1,500	electric	all pipes	launch 150' up lateral from mainline
CUES	LAMPII	6 relined-36	1,500	electric	all pipes	extend/retract into lateral from mainline
						Note: Unit simultaneously inspects mainlines
Envirosight	ROVVER X SAT II	6+	1,000	electric	all pipes	extends 150' into lateral from mainline; performs pan/tilt inspection
NuFlow	MiniFlex	1-4	90	electric/battery	any	90°
Subsite Electronics	Gen2 Lateral Launch	4-24	500	electric	all	extends/retracts into lateral from mainline up to 200'
	SPC Push System	2-12	150-500	Manual	All	

Company	Model	Pipe Size (in)	Pipe Length (ft)	Air/Electric	Material	Motion
Aries Industries	Wolverine 2.0 - CT2750 Cutter/PE2750 Camera	relined 6-24	800	electric	all pipes	self-propelled; in/out-up/down-rotate; 4th axis tool pivot
	High cube truck build with Wolverine 2.0 cutter system	relined 6-24	800	electric	all pipes	self-propelled; in/out-up/down-rotate; 4th axis tool pivot
	Van build with Wolverine 2.0 cutter system	relined 6-24	800	electric	all pipes	self-propelled; in/out-up/down-rotate; 4th axis tool pivot
	Trailer build with Wolverine 2.0 cutter system	relined 6-24	800	electric	all pipes	self-propelled; in/out-up/down-rotate; 4th axis tool pivot
	Retrofit existing inspection vehicle with Wolverine 2.0 cutter system	relined 6-24	800	electric	all pipes	self-propelled; in/out-up/down-rotate; 4th axis tool pivot
CUES	Kangaroo Cutter	6-15	1,000	air/electric	all pipes	in/out-up/down-rotate
	Giant Kangaroo Cutter	10-30	1,000	air/electric	all pipes	in/out-up/down-rotate
	Curahee Cutters	5.25-12	1500	air/electric	all pipes	in/out-up/down-rotate
Flow-Liner Systems	STREICHER	3-5	41-123	air/electric	any	in/out-up/down-rotate
NuFlow	Micro S Light +	3-9	164	air	any	90°
	Climbolino E Cutter	2.5-12	100	electric/battery	any	90°
Perma-Liner	MICRO S automatic	3-10	164	air	any	90°
Industries/ IMS Robotics	MICROlight	3-10	98	air	any	90°
15 110254105	MICROlight plus	3-10	98	air	any	90°
	MICROautomatic plus	3-10	164-230	air	any	90°
	NANOeasy	3-6	49-82	air	any	90°
Pipeline Renewal	Micro	3-6	100′	air	any	clamping, arm rotation, arm bend
Technologies	Micro Pro	3-6	100′	air	any	self-propelled, clamping, arm rotation, arm bend
	Micro Premium	3-6	100′	air	any	self-propelled, clamping, arm rotation, arm bend
	PC200	8-28	300′	air	any	self-propelled, arm rotation, arm bend, tool pivot
Vortex/Schwalm	Talpa 1300	6-12	600′	both	all	360°
	Talpa 2060	8-24	600′	both	all	360°

#### TRENCHLESS PIPE REPLACEMENT **LATERAL SYSTEMS** Model Type Drive Host Pipe Diameter (in) Company Tyfo Fibrwrap systems Fibrwrap Construction 30+ gas or pressure Services operated HammerHead PortaBurst PB30X 2-6 hydraulic Trenchless HydroBurst HB5058 hydraulic 2-12 HydroBurst 100XTR hydraulic 3-16 51/8" HammerHead Mole pneumatic 4-6 Pipe Bursting Tool TT Technologies Grundotugger 4-6 hydraulic 4 Grundocrack PCG85 pneumatic Grundocrack PCG95 4-6 pneumatic Grundocrack Mini-Atlas pneumatic 4 Grundocrack PCG130 pneumatic 4-6

#### **PNEUMATIC PIPE BURSTING**

Company	Model	Tool Length (in)	Tool Diameter (in)	Host Pipe Diameter (in)	Host Pipe Type
HammerHead	5.125" SR	66	5.125	6	ACP, VCP, RCP, concrete, cast iron
Trenchless	5.75" SR	79.5	5.75	6	ACP, VCP, RCP, concrete, cast iron
	7" AR	81	7	6-10	ACP, VCP, RCP, concrete, cast iron
	8" AR	105	8	8-12	ACP, VCP, RCP, concrete, cast iron
	12" AR	89.2	12	10-18	ACP, VCP, RCP, concrete, cast iron
	16" AR	85.5	16	12-24	ACP, VCP, RCP, concrete, cast iron
	20" AR	108.4	20	18-26	ACP, VCP, RCP, concrete, cast iron
	26XPR	138	25.6	15-36	ACP, VCP, RCP, concrete, cast iron
	Note: SR = Scr	ew Reverse	; AR = Air Revers	se; AI = Air Im	pactor
Inland Pipe	all	n/a	n/a	6-42	all
Rehabilitation (IPR)	Note: IPR is a p	oipe-burstir	ng contractor th	at uses all equ	uipment manufacturers.
TT Technologies	Mini-Atlas	36	5	6-7	ACP, VCP, RCP, concrete, cast iron
	Titan	61	5.75	6-7	ACP, VCP, RCP, concrete, cast iron
	PCG 130	50.5	5	6-7	ACP, VCP, RCP, concrete, cast iron
	PCG 145	60	5.75	7-8	ACP, VCP, RCP, concrete, cast iron
	Olympus	66.5	7	6-8	ACP, VCP, RCP, concrete, cast iron
	PCG 180*	66	7	8-12	ACP, VCP, RCP, concrete, cast iron
	Hercules	75	8.5	8-12	ACP, VCP, RCP, concrete, cast iron
	HV 220*	79	9	10-12	ACP, VCP, RCP, concrete, cast iron
	Mini-Gigant	49	10	10-12	ACP, VCP, RCP, concrete, cast iron
	Gigant	79	10	12-16	ACP, VCP, RCP, concrete, cast iron
	PCG 270*	84	11	14-16	ACP, VCP, RCP, concrete, cast iron
	Koloss	92	14	16-24	ACP, VCP, RCP, concrete, cast iron
	Goliath	112	18	22-30	ACP, VCP, RCP, concrete, cast iron
	Taurus	144	24	32-42	ACP, VCP, RCP, concrete, cast iron
	*Reversible				

4 TECH	

Company	Model	Pipe Diameter Range (in)	Thrust (tons)	Pit Size (ft)	Host Pipe Types
Tenbusch	B-500	Clay&DI 6-12; Steel 6-18	140	9 x 9	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	B-600	Clay&DI 6-15; Steel 6-22	192	9 x 9	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	B-700	Clay&DI 6-12 Steel 6-18	140	9 x 14	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	T-1000	Long joints of DI to 12" DIA	192	varies	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	T-1500	Long joints of DI to 16" DIA	250	varies	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	T-2000	Long joints of DI to 24" DIA	375	varies	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	MB - 330	Clay&DI 6-10 Steel 6 -15	125	4 x 10	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	MB - 340	Clay&DI 6-10 Steel 6 -15	125	4 x 14	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	MB - 3040	Clay&DI 6-27 S teel 6 -36	375	9 x 14	AC, VCP, Cast Iron, DI, RCP, PVC, HDPE, Truss Pipe, Steel
	MH - 100	Clay&DI 6-8	62	in manhole	AC, VCP, Cast Iron, DI, RCP, PVC, Pipe, Steel, HDPE, Truss

#### **STATIC PIPE BURSTING SYSTEMS**

Company	Model	Type Drive	Thrust (ft/lbs)	Pullback (lbs)	Power Unit	Host Pipe Diameter (in)	Host Pipe Types		
HammerHead Trenchless	HydroBurst HB5058	hydraulic	100,000	100,000	pack	2-8	ACP, VCP, RCP, concrete, cast iron, ductile iron, steel		
	HydroBurst 100XTR	hydraulic	20,000	200,000	pack	3-16	ACP, VCP, RCP, concrete, cast iron, ductile iron, steel		
	HydroBurst HB175XT	hydraulic	25,000	346,000	pack	8-24	ACP, VCP, RC concrete, cast iron, ductile iron, steel		
	PortaBurst PB30X	hydraulic	N/A	60,000	pack	2-6	ACP, VCP, RCP, concrete, cast iron & more		
Inland Pipe	all	n/a	n/a	n/a	all	6-42	all		
Rehabilitation (IPR)	Note: IPR is a pipe-bursting contractor that uses all equipment manufacturers.								
TT Technologies/	400S (manhole)	hydraulic	80,000	90,000		4-8	Ductile iron, steel, RCP, VCP, cast iron,		
Grundoburst	400G	hydraulic	80,000	90,000	pack	4-8	concrete & more		
	800G	hydraulic	100,000	173,000	pack	6-12	-		
	1250G	hydraulic	155,000	225,000	pack	6-20			
	1900G	hydraulic	250,000	225,000	pack	6-20			
	2500G	hydraulic	396,000	570,000	pack	24-48	-		
	30TX	hydraulic	60,000	60,000	pack	4-6	-		
	50TX	hydraulic	100,000	100,000	pack	4-8			

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