

Company	Product/Type	Mainline, Lateral Sectional	Inversion/Cure Process	Pull-In Diameter Range (in)	Inversion Diameter Range (in)
Applied Felts	Felt Liner	lateral	steam, water, ambient cure	4-108	4-108
C.I.P.P. Corp.	Felt Liner	lateral	steam, water cure	4-108	4-108
HammerHead	Felt Liner	lateral	steam, water, ambient		2-12
Frenchless	RS CityLiner	mainline	steam, water, ambient	6-48	6-48
	RS Blueline	mainline	steam, water, ambient	4-48	4-48
	RS CityMain	mainline	steam, water, ambient	6-48	6-48
	Point Repair	sectional	ambient	2-60	
nfrastructure Lepair Systems	Point Repair	sectional		3-100	
nliner Technologies	CIPP	lateral, mainline	steam, water, uv cure	4-120	4-120
nsituform Technologies	CIPP	lateral, mainline	air, water inversion	4-108	4-108
•			steam, water cure		
.MK Technologies	Lap Liner	main, lateral	ambient		4-24
Ü	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		4 & 6
	Invert-In-Place Spot Repair	lateral	air/steam, ambient		4 & 6
	Performance Liner Sectional Inversion	sectional	air/steam, ambient		6-42
iner Products	Felt Liner	lateral, mainline	air, water inversion, steam, water cure	4-120	4-120
1asterliner	CIPP	mainline, lateral, sectional	steam, water, air cure	up to 75	up to 75
1axLiner	Felt Liner	lateral	steam, ambient cure	3-10	3-10
1ississippi Textiles	Felt Liner		air, water inversion steam cure	6-96	6-96
National Liner	CIPP		air, water inversion water, steam cure	4-108	4-108
altem	Super-HL	mainline	inversion/steam or ambient		8 - 40Perma-Line
erma-Main	mainline	water inv./steam cure		6-24	
	Perma-Lateral	lateral	air inv./ambient cure	2-12	
	Perma-Liner	sectional		6-52	
	Sectional Point Repairs			6-54	2'-30'
	Perma-Patch	lateral spot		4-6	
remier-Pipe USA	Felt Liner	lateral			4-108
rimeLine Products	PrimeLiner	lateral	ambient cure	2-8	
ekisui SPR Americas	Nordipipe	mainline	air/steam inversion		6-48
	Nordiforce	mainline	water/hot water cure		

GROUT-IN-PLACE-PIPE				
Company	Product	Diameter Range (in)		
Danby	Panel Lok	36+		
National Liner	3 - S	36+		
Paltem	Flow-Ring	>32		

SPRAYED-IN-PLACE-PIPE					
Company	Product	Pipe Diameter (In.)	Туре Ріре	Insitu/ New Pipe	
3M AP/M Permaform	Scotchkote 269 Permacast PL-8000 (centrifugally- cast-concrete)	4-12 30-120	water metal, concrete, clay, brick culverts, sewer pipe	insitu insitu	
IPR	Eco-Cast	36-120	culverts, storm drains,		
Quadex LLC	Quadex Lining System	30+	CMP, concrete, brick, stone	fully structural pipe- in-pipe	
Sauereisen	SewerGard 210	48+	concrete, brick, metal		
SippTech	SippSteel	8 - 144	all	structurally independent - insitu	
Sprayroq	SprayWall	36+	concrete, metal, culverts, storm drains, DOT, clay,		
The Strong Co.	Storm Seal	18-120	brick, sewer, stormwater metal, concrete, clay, brick	insitu	
Warren Environmental			metal, concrete		

SPIRAL WOUND TECHNOLOGY					
Company	Product	Diameter Range (in)			
Contech	SPR PE	30-118			
Engineered Solutions					
Danby	Panel Lok	36+			
Sekisui SPR Americas	SPR EX	8 - 42			
	SPR TF	36 - 80			
	CDD TM	32 217			

UV-LIGHT CURED-IN-PLACE-PIPE				
Company	Product	Diameter Range (in)		
C.I.P.P. Corp.	BKP Berolina	up to 36		
Layne Inliner	Inliner STX	6-48		
Reline America	Alphaliner	6-60		

FOLDED PIPE						
Company	Product	Pipe Type	Diameter Range (in)	Pre-Heating		
American Pipe & Plastics	AM-LINER"	PVC	6-12	Yes		
Insituform	InsituGuard	HDPE	4-48	No		
IPEX USA LLC	Liner	PVC	6-30	Yes		
Miller Pipeline	EX Method	PVC	6-12	Yes		

# Rehab Technology SELECTION GUIDE

Camanana	Model	Diameter	Dina Matarial	Available
Company	Model	(in)	Pipe Material	Lengths
Advanced Drainage	N-12 HDPE	4-60	high density polyethylene	13', 20'
Systems (ADS)	SaniTite HP HP Storm	12-60 12-60	polypropylene polypropylene	13', 20' 13', 20'
Contech Engineered Systems	A2 Liner DuroMaxx	12-36 30-120	PVC resin (12454) Steel Reinforced Polyethylene	10', 20' 14', 24'
,	InnerFlow ULTRA FLO	10-63 18-120	HDPE ALT2 Corrugated Steel Pipe Polymer-Coated Steel Corrugated Pipe	Variable up to 49' 10' - 40'
	HEL-COR	6-144	ALT2 Corrugated Steel Pipe Polymer-Coated Steel Corrugated Pipe	10' - 40'
	CORLIX ALSP Tunnel Liner Plate	6-120 5' - 40' 4' - 15'	Aluminum Aluminum Structural Plate Steel or Aluminum	10' - 40' 4.5' plate lengths 18" plate lengths
HOBAS Pipe USA	CCFRPM	18-126	centrifugally cast, fiberglass-reinforced polymer mortar	20' standard, shorter available
ISCO	Snap-Tite	6-63	HDPE	2'-50'
Underground Solutions Inc.	Fusible PVC Pipe	4-36	PVC	20', 30', 40'
United Pipeline Systems	Tite Liner	4-54+	HDPE	1,000'
US Composite Pipe South	Flowtite	4-156	filament wound fiberglass-reinforced plastic mortor	10'-40'

Company	Product	Viscosity	Application
Avanti Intl.	AV-100 Chemical Grout	I-2 cP in solution	Sewer joint sealing, service lateral connections, soil stabilization, hazardous waste containment, controls groundwater in mines, tunnels & subways.
	AV-202* Multigrout	3200-6000 cP in solution	Seals leaks in large cracks or joints in concrete, dams, structures, manholes & pipe penetrations.
	Ultrafine*	water/cement ratio of 0.6/I by weight	Pumice-based cement increases compressive strength of soils, soil stabilization, forms low-permeability grout curtains, seal seeping mines, dams & tunnels.
	AV-118 Duriflex	I-2 cP in solution	Sewer joint sealing, service lateral connections, soil stabilization, hazardous waste containment, controls groundwater in mines, tunnels & subways.
	AV-160 SuperGel	I-2 cP in solution	Sewer joint sealing, service lateral connections, soil stabilization, controls groundwater in mines, tunnels & subways.
	AV-248-LV *Flexseal LV	150-250 cP	Flexible hydrophobic withstands wet/dry cycles, seals leaks in fine to medium moving cracks and joints in concrete structures.
	AV-248 Flexseal	550-830 cP	Flexible hydrophobic withstands wet/ dry cycles, seals leaks in medium to large moving cracks & joints in concrete structures.
	AV-275* SoilGrout	100-120 cP	Fills voids outside a structure or joints & cracks in concrete structures, soil stabilizer.
	AV-315* MicroFoam	50-200 cP	Seals leaks in fine cracks or joints in concrete retaining walls, parking structures, tunnels & mines.
	AV-330* Safeguard	350-750 cP	Seals leaks in medium to fine cracks or joints in subways and tunnels, tie- backs & slurry walls, manhole & pipe
	AV-333* Injectaflex	350-750 cP	penetrations.  Seals leaks in medium to fine cracks or joints in concrete structures, subways, manholes, pipe penetrations.
	AV-350 Multigel  * Certified for use with bot.	275-450 cP	Soil stabilization around manholes, pipe joints, service laterals, tunnels, dams.

<sup>\*</sup> Certified for use with potable water

GROUT			
Company	Product	Viscosity	Application
Company	Troduct	Viscosity	Аррисации
Prime Resins	Prime Flex 900 XLV*	250-350 cps	Sealing leaks in extremely tight hairline cracks.
	Prime Flex 900 MV	650-700 cps	Sealing active leaks in concrete (cold joints, cracks, failed water stop). Tough and flexible. No catalyst or accelerator needed.
	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, belowgrade 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	Rigid polyurethane foam. Fills voids in/ around structures; fills abandoned underground storage tanks and pipes.
	AR 800*	1-15 cps	and ground storage tanks and pipes.
		in solution	Soil stabilization, sealing joints and leaks in potable water pipes and waste water pipes and waste water pipes. Hydrophilic, acrylate (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.
	Rock Grout 9200	190-200 cps	Soil stabilization, compaction grouting. Fast-reacting. Creates dense, hard fill material required for anchoring and binding aggregate.
	Prime Permeation Grout	35-50 cps	Soil stabilization, curtain wall grouting, sea wall leak sealing. Hydrophobic.
	VF 3.5	270-280 cps	Soil stabilization, void filling, slab lifting. Hydro insensitive.
*Independently	tested and verified to meet N	SF/ANSI Standard 61 f	
Sealing Systems	Aqua Seal	440 cps "B" side 200 cps "A"	Aqua Seal is an extremely reactive two side component hydrophobic polyure- thane water stop system that can be injected into flowing water.

# GROUTING EQUIPMENT TEST & SEAL PACKERS

Company	Model	Pipe Diameter (in)	Туре
Logiball	2001 J Series	6-21	round pipe (vcp, acp, concrete, pvc)
	CMP Series	4-144	round pipe collapsible mainline test & seal packers
	Elliptical series	(14 x 23+)	test & 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
CUES	Low Void Collapsible	6-18 24-96	round round

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

I LO I W OLAL	EATERNE I AGREEM		
Company	Model	Mainline Diameter (in)	Lateral Diameter (in)
Logiball	2001L series	6-30	4-6; 30
CUES	Logiball	6-30	3-8

INTERNAL JOINT SEALS						
Company	Product	Seal Application Size (in)	Seal Operating Pressures (psi)			
Cretex Specialty Products	Internal Manhole Chimney Seal Internal Pipe Joint Seal External Manhole Joint Seal HydraTite Seal	20-48 24-48 32-120 18-216	300 internal			
LMK Technologies	CÍPMH	up to 36	150 external			
Miller Pipeline	Weko-Seal	18-216	300 internal			

MANHOLES				
Company	Coating	Inserts	Liners	Inverts
AP/M Permaform	Yes	Yes	Yes	Yes
No-Dig manhole solutions since 1975 provided through world-wide	e network of	highly train	ed applicat	ors;
PERMAFORM, PERMACAST, CONMICSHIELD and COR+GARD offer	er the "hole" s	olution.		
Containment Solutions	No	No	Yes	No
lon-corrosive fiberglass manhole rehab liners slide into existing m	anholes to sa	ve time and	d money. N	lanhole
ases with adhesive channels also available.				
Cretex Specialty Products	Yes	Yes	No	No
eading manufacturer of mechanical internal and external manhol	le frame-chim	nney seals, i	nternal joir	nt seals,
RO-RING, external joint wraps, lid plugs, gaskets, inflow dishes and	d more.			
Danby	No	No	Yes	Yes
Cast-in-place new and rehab manholes using corrosion-resiste	ent PVC line	r with cen	nentitious	grout for
torm and wastewater structures for over 28 years.				
HOBAS Pipe USA	No	Yes	Yes	No
egmental sections are utilized to rehabilitate manhole shafts.The	corrosion res	istance and	high stren	gth
omposite make liner insertion quick and easy. Manhole T-base sys	stems are ava	ilable.		
nfrastructure Repair Systems	Yes	No	No	No
nfragard, a durable topcoat and Chim Coat; a flexible mastic, trow	el-on 100% s	solid epoxy	rehab mat	erial.
inabond	No	No	Yes	No
MK Technologies	No	No	Yes	No
stretchable, one-size fits most CIPP lining is designed to structure	ally renew ma	nholes whil	e eliminati	ng inflow
t its source. CIPMH can be installed as a chimney seal or full-dep	oth manhole l	ining.		
filler Pipeline	No	Yes	No	No
erma-Liner	No	No	Yes	No
Quadex LLC (member of the Vortex family)	Yes	No	Yes	No
ince 1991, Quadex has been manufacturing and delivering th	e highest-qu	ality geopo	olymer, hyl	orid cemen
nd patching materials for the manhole/sewer infrastructure i	rehab marke	t.		
laven Lining Systems	Yes	No	Yes	No
laven Lining Systems offers products that are solvent free 100% s	solids, ultra hi	gh-build ep	oxy coating	for new an
ehabilitted water/wastewater infrastructures.				
ealing Systems	Yes	No	No	No
ealing Systems manufactures a variety of manhole rehab product	ts: manhole in	serts, coati	ngs (extern	al and
nternal) and chemical grout.				
auereisen	Yes	No	No	No
auereisen manufactures an array of cements, calcium aluminate,	100% solids	epoxies, ure	ethanes an	d polyuretho
routs for stopping water inflow and preventing corrosion in waster	water manho	les.		
pectraShield Liner Systems	Yes	No	Yes	Yes
tops infiltration, prevents corrosion, and has a 10-year warranty.				
prayroq Inc	Yes	No	Yes	Yes
tructural polyurethane that is self-priming, and provides infiltration	n control and	fast return	to service.	
tandard Cement Materials	Yes	No	Yes	Yes
tandard Cement Materials manufactures and installs cementitiou	is liners and e	ероху coatii	ngs in man	holes, lift
tations and wet wells as a certified MBE.				
he Strong Company	Yes	No	No	No
Manhole rehab solution since 1989. The fast, cost-effective solution				
Manhole rehab solution since 1989.The fast, cost-effective solution ntegrity and protecting against corrosion.  Varren Environmental	Yes	No	No	No
ategrity and protecting against corrosion.				

REMOTE INSPECTION SYSTEMS								
Company	Model		Pipe Length (ft)	Video	Camera	Adjust Focus		
CUES	Digital Universal Camera DUC	6-60	2,000	side scan color	mailine	virtual		
	MP 2020 Push System	2-12	100-300	color	mini	no		
	ProScout	4-24	1,000	color	mini/mainline	yes		
	Inspector General	2-200	1,000	color	mini/mainline	yes		
	Qube	4-200	1,000	color	mainline	yes		
	Evolution Mainline	2-200	4,000	color	mini/mainline	yes		
	Workhorse Mainline	2-200	4,000	color	mini/mainline	yes		
	LAMP Lateral & Mainline	6-36	1,500	color	mini/mainline	no		
	LAMP II Lateral & Mainline Probe II	6 relined	I-36 I,500	color	mini/mainline	no		
	OZ II & Nitelite	6-200	N/A	color	mainline	yes		
	Pipe Ranger Transporter	7-60	2,000	N/A	mainline	N/A		
	Lite Stick	4-24	N/A	color	pole	no		
	Quickzoom	4-48	100	color	pole	yes		
	Sonar Laser Profiler	8-1,200 6-90	2,800 N/A	color N/A	mainline	N/A		
	Shorty	6-36	1,500	N/A N/A	mainline mainline	yes N/A		
	Transporter OZIII/Compact	5-30	1,500	color	mainline			
	Pipe Ranger OZIII/Ultra	5-30	1,500	color	mainline	yes		
	Shorty III OZIII	5-30	1,500 N/A	color	mainline	yes		
	Ultra Shorty 21	6-36	IN/A 1.500	N/A	mainline mainline	yes N/A		
	Transporter WTRIII	6-30	1,500	N/A	mainline	N/A		
	Wheeled K2 Series	6-200	1.200	color	mainline			
	Ultra Shorty III Track Transporte	5-30	1,500	N/A	mainline	yes N/A		
	Steerable Mudmaster	24-200	2,000	N/A	mainline	N/A		
Envirosight	ROVVER X 95	4"+	+1,650'	color pan/ tilt/zoom	lateral, mainline	yes		
	ROVVER X 140	6"+	+1,650'	color pan/ tilt/zoom	mainline	yes		
	ROVVER X 400	24"+	+1,650'	color pan/ tilt/zoom	mainline	yes		
	ROVVER X Laser	8"+	+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		
R.S. Technical Services	Helix Manhole	60	up to 50' (deeper opt	N/A tions)	6 2D cameras/ 6 live 3D sensors	N/A		

LATERAL INSPECTION SYSTEMS									
Company	Model	Pipe Size	Pipe Length	Air/Electric	Material	Motion			
CUES	LAMP II	6"-36" 6" relined-36"	1,500'	electric electric	all pipes	extend/retract into lateral from mainline extend/retract into lateral from mainline			
		nits simultaneously i							
Envirosight	ROVVER X SAT	6"+	500'	electric	all pipes	extends 150' into lateral from mainline; performs pan/ tilt inspection			
HammerHead Trenchless	PortaVision	2"-6"	200'	electric	all pipes				
RS Technical Services	mainline/ lateral	6"-24" mainline 4"-8" lateral	500' mainline up to 200' lateral	e N/A	all pipes	dedicated lateral camera extends up to 150' from mainline			

# Rehab Technology SELECTION GUIDE

CUTTERS								
Company	Model	Pipe Size	Pipe Length	Air/Electric	Material	Motion		
CUES	Kangaroo Giant Kangaroo Schwalm Self Propelled Cutter Schwalm Self Propelled Cutter	6"-15" 10"-30" 6"-12" 8"-24"	1,000'	air/electric	all pipes	in/out-up/ down-rotate in/out-up/ down-rotate		
LMK/Schwalm Robotic Systems	Talpa 2060 Talpa 1330	6"-12" 8"-2 <del>4</del> "	600'	air/electric		360°		
Pipeline Renewal Technologies	Micro Micro Pro	3'-6" 3"-6"	100'	air	any	clamping, arm rotation, arm bend self-propelled, clamping, arm rotation,		
	Micro Premium PC200	3"-6" 8"-28"	100'	air	any	arm bend self-propelled, clamping, arm rotation, arm bend self-propelled,		
					~ <b>,</b>	arm rotation, arm bend, tool pivot		
RS Technical Services	Self-propelled tap cutter 1500 Series 1300 Series Omni-Eye III NovaSTAR	8"-24" 1.5-6 2.25-18 6-72 6-72	400' 1,000' 2,500' 2,500'	electric; cutting motor is air color color color color	all mini cam mini/mainlir mainline mainline	self-propelled; ram extends up to 6" local le local remote/auto remote/auto		
Vortex/ Schwalm	Talpa 1300 Talpa 2060	6'-12' 8"-24"	600'	both both	all all	360° 360°		

TRENCHLESS	S PIPE REI	PLACEMENT
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LAT			

LATERAL SYSTEMS								
Company	Model	Type Drive	Host Pipe Diameter (in)					
Fibrwrap Construction Services	Tyfo Fibrwrap systems	gas or pressure operated	30+					
HammerHead Trenchless	PortaBurst PB30G2 PortaBurst Lightning HydroBurst HB5058 HydroBurst 100XT 3" HammerHead Mole Pipe Bursting Tool 5 1/8" HammerHead Mole Pipe Bursting Tool	hydraulic hydraulic hydraulic hydraulic pneumatic pneumatic	2-6 2-6 2-12 3-16 4					
TT Technologies	Grundotugger Grundoburst 30TX Grundoburst 50TX Grundocrack PCG85 Grundocrack PCG95 Grundocrack Mini-Atlas Grundocrack PCG130	hydraulic hydraulic hydraulic pneumatic pneumatic pneumatic pneumatic	4-6 up to 6 up to 10 4 4-6 4 4-6					

#### **PIPE REAMING**

Company	Description
Nowak Pipe Reaming	Replace existing non-metallic pipe with HDPE or restrained joint PVC, non-disruptively, with up to double diameter size increases in any soil condition, rock, and non-reinforced concrete encasement included, using an appropriately sized directional drill.

## PNEUMATIC PB

Company	Model Diameter	Tool Length (in)	Tool Diameter (in)	Host Pipe (in)	Host Pipe Type
HammerHead Trenchless Equipment	3" SR 5.125" SR 5.75" SR 7" AR 8" AR 12" AR 16" AR 20" AR 24" AR	3 5.125 5.75 7 8 12 16 20 24	52 66 79.5 81 105 89.2 85.5 108.4	4 6 6 6-10 8-12 10-18 12-24 18-26 20-30+	ACP, VCP, RCP, concrete, cast iron ACP, VCP, RCP, concrete, cast iron
	8" AI 12" AI	11.44	32 36.8	6-10 8-12	ACP, VCP, RCP, concrete, cast iron ACP, VCP, RCP, concrete, cast iron ACP, VCP, RCP, concrete, cast iron

SR=Screw Reverse;; AR=Air Reverse; Al=Air Impactor

<b>PNEUMATIC</b>	PB				
TT	PCF 130	5	53.5	6-7	ACP, VCP, RCP, concrete, cast iron
Technologies	PCF 145	5.75	63	7-8	ACP, VCP, RCP, concrete, cast iron
	PCF 180	7	66.5	8-10	ACP, VCP, RCP, concrete, cast iron
	PCF 220	8.5	77	10-12	ACP, VCP, RCP, concrete, cast iron
	Mini-Atlas	5	36	6-7	ACP, VCP, RCP, concrete, cast iron
	Titan	5.75	61	6-7	ACP, VCP, RCP, concrete, cast iron
	PCG 130	5	50.5	6-7	ACP, VCP, RCP, concrete, cast iron
	PCG 145	5.75	60	7-8	ACP, VCP, RCP, concrete, cast iron
	Olympus	7	66.5	6-8	ACP, VCP, RCP, concrete, cast iron
	PCG 180*	7	66	8-12	ACP, VCP, RCP, concrete, cast iron
	Hercules	8.5	75	8-12	ACP, VCP, RCP, concrete, cast iron
	HV 220*	9	79	10-12	ACP, VCP, RCP, concrete, cast iron
	Mini-Gigant	10	49	10-12	ACP, VCP, RCP, concrete, cast iron
	Gigant	10	79	12-16	ACP, VCP, RCP, concrete, cast iron
	PCG 270*	H	84	14-16	ACP, VCP, RCP, concrete, cast iron
	Koloss	14	92	16-24	ACP, VCP, RCP, concrete, cast iron
	Goliath	18	112	22-30	ACP, VCP, RCP, concrete, cast iron
	Taurus	24	144	32-42	ACP, VCP, RCP, concrete, cast iron
	*Reversible				

#### **PUSHTECHNOLOGY**

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,
	MB - 3040	Clay&DI 6-27 Steel 6 -36	375	9 x 14	PVC, HDPE, Truss Pipe, Steel AC, VCP, Cast Iron, DI, RCP,
	MH - 100	Clay&DI 6-8	62	in manhole	PVC, HDPE, Truss Pipe, Steel 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 HB3038	hydraulic	76,000	60,000	pack	2-6	ACP, VCP, RCP, concrete, cast iron, ductile iron, steel
	HydroBurst HB5058	hydraulic	100,000	100,000	pack	2-8	ACP,VCP, RCP, concrete, cast iron, ductile iron, steel
	HydroBurst 100XT	hydraulic	20,000	200,000	pack	3-16	ACP,VCP, RCP, concrete, cast iron, ductile iron, steel
	HydroBurst HB125	hydraulic	40,000	250,000	pack	6-20	ACP,VCP, RCP, concrete, cast iron, ductile iron, steel
	HydroBurst HB175	hydraulic	25,000	346,000	pack	8-24	ACP, VCP, RC concrete, cast iron, ductile iron, steel
	PortaBurst PB30G2	hydraulic	N/A	60,000	pack	2-6	ACP,VCP,, RCP, concrete, cast iron
	PortaBurst Lightning	hydraulic	N/A	60,000	pack	2-6	ACP,VCP, RCP, concrete, cast iron
TT Technologies/ Grundoburst	400S (manhole)	hydraulic	80,000	90,000		4-8	
	400G 800G 1000G	hydraulic hydraulic hydraulic	80,000 100,000 155,000	90,000 173,000 225,000	pack pack pack	4-8 6-12 6-20	iron iron iron
	1250G 2500G 30TX	hydraulic hydraulic hydraulic	250,000 396,000 60,000	225,000 570,000 60,000	pack pack pack	6-20 24-48 4-6	iron iron iron
	50TX	hydraulic	100,000	100,000	pack	4-8	iron