****REHABTECHNOLOGYSELECTION GUIDE**

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
Trenchless Equipment	RS CityLiner	mainline	steam, water, ambient	6-42	6-42
	RS Blueline	mainline	steam, water, ambient	4-42	4-42
	RS CityMain	mainline	steam, water, ambient	6-42	6-42
	Point Repair	sectional	ambient	2-60	
Infrastructure Repair Systems	Point Repair	sectional		3-100	
Inliner Technologies	CIPP	lateral, mainline	steam, water, uv cure	4-120	4-120
Insituform Technologies	CIPP	lateral, mainline	air, water inversion	4-108	4-108
· ·			steam, water cure		
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		4 & 6
	Invert-In-Place Spot Repair	lateral	air/steam, ambient		4 & 6
	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	Felt Liner	lateral	steam, ambient cure	3-10	3-10
Mississippi Textiles	Felt Liner		air, water inversion steam cure	6-96	6-96
National Liner	CIPP		air, water inversion	4-108	4-108
Perma-Liner	Perma-Main	and the s	water, steam cure	6-24	
rerma-Liner	Perma-Main Perma-Lateral	mainline lateral	water inv./steam cure air inv./ambient cure	6-2 4 2-12	
	Perma-Liner	sectional	air inv./ambient cure	6-52	
	Sectional Point Repairs	sectional		6-52 6-54	2'-30'
	Perma-Patch	latoral cont		6-54 4-6	2 - 30
Premier-Pipe USA	Felt Liner	lateral spot lateral		4-0	4-108
Premier-Pipe USA PrimeLine Products	PrimeLiner	lateral	ambient cure	2-8	4-100
Sekisui SPR Americas		mainline	ampient cure air/steam inversion	2-0	6-48
Sekisui SPK Americas	Nordipipe Nordiforce				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+				
Sekisui SPR Americas	SPR	32 - 217				

SPRAYED-IN-PLACE-PIPE						
Company	Product F	Pipe Diameter (In.)	r Type Pipe	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 Quadex LLC	Eco-Cast Quadex Lining System	36-120 30+	culverts, storm drains, DOT CMP. concrete, brick.	fully structural		
	,		stone	pipe- in-pipe		
Sprayroq	SprayWall	36+	concrete, metal, culverts, storm drains, DOT, clay, brick, sewer, stormwater			
The Strong Co.	Storm Seal	18-120	metal, concrete, clay, brick	insitu		
Warren Environmental			metal, concrete			

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

SLIPLINING								
Company	Model	Diameter (in)	Pipe Material	Available Lengths				
Advanced	N-12 HDPE	4-60	high density	13', 20'				
Drainage			polyethylene					
Systems (ADS)	SaniTite HP	12-60	polypropylene	13', 20'				
	HP Storm	12-60	polyethylene	13', 20'				
Contech	A2 Liner	12-36	PVC resin (12454)	12.5', 14', 22'				
Engineered	DuroMaxx	30-120	steel reinforced	14', 24'				
Solutions			polyethylene;					
			aluminized steel type 2,					
			aluminum					
	ULTRA FLO	18-102	polymer pre-coated	10'-48'				
			aluminized steel type 2,					
			aluminum					
	CMP	6-144	polymer pre-coated	10'-48'				
	ALSP	5'-40'	aluminum structural	4.5' plate lengths				
	Tunnel Liner Plate	4'-15'	steel or aluminum	18" plate lengths				
	Other	8'-102'	other plate & bridge					
			products					
HOBAS Pipe USA	CCFRPM	18-126	centrifugally cast,	20' standard,				
			fiberglass-reinforced	shorter available				
			polymer mortar					
ISCO	Snap-Tite	6-63	HDPE	2'-50'				
Underground	Fusible PVC Pipe	4-36	PVC	20', 30', 40'				
Solutions Inc.								
United Pipeline	Tite Liner	4-54+	HDPE	1,000'				
Systems								
US Composite	Flowtite	4-156	filament wound	10'-40'				
Pipe South			fiberglass-reinforced					
			plastic mortor					

GROUT								
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.	Prime Resins	AR 870	2-7 cps in solution	sealing w leaks; co	eaks in concrete; rastewater lateral joints and ntrolling water in tunneling ator pits, below-grade
	AV-202* Multigrout	3200-6000 cP in solution	Seals leaks in large cracks or joints in concrete, dams, structures, manholes & pipe penetrations.		Precision Lift 4.0/4.75	270-280 cps	structure Compac	
	Ultrafine*	water/cement ratio of 0.6/ I by weight	Pumice-based cement increases compressive strength of soils, soil stabilization, forms low-permeability		Rock Grout 9200	190-200 cps	Fast-read	lization, compaction grouting. cting. Creates dense, hard fill
	AV-118 Duriflex	I-2 cP in solution	grout curtains, seal seeping mines, dams & tunnels. Sewer joint sealing, service lateral connections, soil stabilization, hazard- ous waste containment, controls groundwater in mines, tunnels &		Prime Permeation Grout VF 3.5	35-50 cps 270-280 cps	binding a Soil stab sea wall Soil stab	required for anchoring and ggregate. Ilization, curtain wall grouting, leak sealing. Hydrophobic. Ilization, void filling, slab lifting. sensitive.
	AV-160 SuperGel	I-2 cP in solution	subways. Sewer joint sealing, service lateral connections, soil stabilization, controls groundwater in mines, tunnels & subways.	*Independently i Sealing Systems	tested and verified to meet NS Aqua Seal	F/ANSI Standard 6 440 cps "B" side 200 cps "A"	61 for contact w Aqua Ses side com thane wa	ith potable water. al is an extremely reactive two aponent hydrophobic polyure- ater stop system that can be
	AV-248-LV *Flexseal LV	150-250 cP	Flexible hydrophobic withstands wet/dry cycles, seals leaks in fine to	GROUTII	NG EQUIPMENT		Injected	into flowing water.
			medium moving cracks and joints in concrete structures.	Test & Seal P	ackers	<u> </u>		_
	AV-248 Flexseal	550-830 cP	Flexible hydrophobic withstands wet/ dry cycles, seals leaks in medium to	Company Logiball	Model 2001 Series	Pipe Diar	neter (in)	Type round pipe (vcp, acp,
	AV-275* SoilGrout	100-120 cP	large moving cracks & joints in concrete structures. Fills voids outside a structure or joints & cracks in concrete structures, soil	Logivan	CMP Series Elliptical series	4-144 (14 x 2	23+)	concrete, pvc) round pipe collapsible mainline test & seal packers test & seal grouting packers
	AV-315* MicroFoam	50-200 cP	stabilizer. Seals leaks in fine cracks or joints in concrete retaining walls, parking		Box Culvert series	up to I	,	for elliptical concrete pipe custom made packers for box culverts
	AV-330* Safeguard	350-750 cP	structures, tunnels & mines. Seals leaks in medium to fine cracks or joints in subways and tunnels, tie- backs & slurry walls, manhole & pipe	CUES	Flexible Push/Pull Low Void	4-10 6-18		flexible packers w/3-5ft grouting span round
	AV-333* Injectaflex	350-750 cP	penetrations. Seals leaks in medium to fine cracks		Collapsible	24-96		round
	Av-333 injectatiex	330-730 CF	or joints in concrete structures, sub-	Test & Seal L Company	ateral Packers Model	Mainline Pip	oe Diameter	Lateral Diameter
	AV-350 Multigel	275-450 cP	ways, manholes, pipe penetrations. Soil stabilization around manholes, pipe joints, service laterals, tunnels, dams.	Logiball CUES	2001L series Logiball	6"-30" 6"-30"		4"-6"; 30' 3"-8"
	* Certified for use with poto	able water	dams.	INTERN <i>A</i>	AL JOINT SEALS			
Prime Resins	Prime Flex 900 XLV*	250-350 cps	Sealing leaks in extremely tight	Company	Product	Sea	l Application Size (in)	Seal Operating Pressures (psi)
	Prime Flex 900 MV	650-700 cps	hairline cracks. Sealing active leaks in concrete (cold joints, cracks, failed water stop). Tough and flexible. No catalyst	Cretex Specials Products	Chimney Seal Internal Pipe Joint		20-48 24-48	Tressures (psi)
	Prime Flex 910	35-50 cps	or accelerator needed. Soil stabilization; curtain wall grouting; sea wall leak sealing. Hydrophobic, forms watertight, rock hard mass.	IMV T. along land	External Manhole HydraTite Seal	Joint Seal	32-120 18-218	300 psi internal 150 psi external
	Prime Flex 920*	120 cps	Soil stabilization, permeation grouting, void filling, gushing leak sealing, below- grade curtain grouting. Hydrophobic.	LMK Technolog Miller Pipeline	gies CIPMH Weko-Seal		up to 36 18-216	150 psi external 300 psi internal
	Prime Flex 940*	450-600 csp	Sealing active leaks in joints and cracks. Hydrophobic flexible foam.	MANHO	LES			
	Hydro Gel SX*	440-550 cps (20 cps at 8:1)	Sealing leaks; point repair grouting Hydrophilic; for wet, below-grade		·m		Yes	
	Prime Flex 985 (LX20*)	270-280 cps	environments such as manholes Rigid polyurethane foam. Fills voids in/ around structures; fills abandoned	PERMAFORM, P	e solutions since 1975 provided ERMACAST, CON ^{MIC} SHIELD and olutions	nd COR+GARD off	fer the "hole" so	lution.
	AR 800*	1-15 cps in solution	underground storage tanks and pipes. Soil stabilization, sealing joints and leaks in potable 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.	Containment Solutions				
				Segmental section	ons are utilized to rehabilitate i liner insertion quick and easy.	manhole shafts.The	e corrosion resis	tance and high strength

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Company	Coating	Inserts	Liners	Inverts
Infrastructure Repair Systems	Yes	No	No	No
Infragard, a durable topcoat and Chim Coat; a flexible mast				
Linabond	No	No	Yes	No
LMK Technologies	No	No	Yes	No
A stretchable, one-size fits most CIPP lining is designed to si	tructurally renew ma	nholes while	e eliminati	ng inflow
at its source. CIPMH can be installed as a chimney seal or	full-depth manhole li	ning.		
Miller Pipeline	No	Yes	No	No
Perma-Liner	No	No	Yes	No
Press-Seal Gasket	No	Yes	Yes	No
Quadex LLC (member of the Vortex family)	Yes	No	Yes	No
Since 1991, Quadex has been manufacturing and delive	ring the highest-qu	ality geopo	olymer, hyl	orid cements
and patching materials for the manhole/sewer infrastru	cture rehab marke	t.		
Raven Lining Systems	Yes	No	Yes	No
Raven Lining Systems offers products that are solvent free	l 00% solids, ultra hiş	gh-build epo	oxy coating	for new and
rehabilitted water/wastewater infrastructures.				
Reliner/Duran	No	No	No	Yes
Sealing Systems	Yes	No	No	No
Sealing Systems manufactures a variety of manhole rehab	products: manhole in	serts, coatir	ngs (extern	al and interna
and chemical grout.				
Sauereisen	Yes	No	No	No
Sauereisen manufactures an array of cements, calcium alur	ninate, 100% solids	epoxies, ure	thanes an	d polyurethan
grouts for stopping water inflow and preventing corrosion in	wastewater manho	les.		
SpectraShield Liner Systems	Yes	No	No	No
Systematic layering of polymer resins stops infiltration, preven	ents corrosion, and h	as a 10-yea	ır warranty	٠.
Sprayroq Inc	Yes	No	Yes	Yes
Structural polyurethane that is self-priming, and provides in	filtration control and	fast return	to service.	
Standard Cement Materials	Yes	No	Yes	Yes
Standard Cement Materials manufactures and installs cem	entitious liners and e	poxy coatin	igs in man	holes, lift
stations and wet wells as a certified MBE.				
The Strong Company	Yes	No	No	No
Manhole rehab solution since 1989. The fast, cost-effective				
integrity and protecting against corrosion.	, 0		ŭ	
Terre Hill Composites	No	No	Yes	No
Warren Environmental	Yes	No	No	No
Warren Environmental is a blender of specialty non toxic et	boxy systems for the	lining and r	ehabilitatio	on of manhole
pipes and other potable and wastewater structures.		-		

REMOTE Company	INSPECTION SYS Model Pi		e Length (ft)	Video	Camera	Adjustable Focus
CUES	Digital Universal	6-60	2,000	side scan	mailine	virtual
	Camera DUC			color		
	MP 2020	2-12	100-300	color	mini	no
	Push System					
	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-36	1,500	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	8-1,200	2,800	color	mainline	N/A
	Laser Profiler	6-90	N/A	N/A	mainline	yes
	Shorty Transporter	6-36	1,500	N/A	mainline	N/A
	OZIII/Compact Pipe Ranger	5-30	1,500	color	mainline	yes
	OZIII/Ultra Shorty III	5-30	1,500	color	mainline	yes
	OZIII	5-72	N/A	color	mainline	yes
	Ultra Shorty 21 Transporter	6-36	1,500	N/A	mainline	N/A

	WTRIII	6-30	1,500	N/A	mainline	N/A
	Wheeled /Track Tra	ansporter				
	K2 Series	6-200	1,200	color	mainline	yes
	Ultra Shorty III	5-30	1,500	N/A	mainline	N/A
	Track Transporter					
	Steerable	24-200	2,000	N/A	mainline	N/A
	Mudmaster					
Envirosight	ROVVER X 95	4"+	+1,650'	color pan/	lateral, mainline	yes
				tilt/zoom		
	ROVVER X 140	6"+	+1,650'	color pan/	mainline	yes
		l l		tilt/zoom		
	ROVVER X 400	24"+	+1,650'	color pan/	mainline	yes
		l		tilt/zoom		
	ROVVER X	8"+	+1,650'	color pan/	mainline	yes
	Laser			tilt/zoom,		
	DOM/ED V	۱ ۵,,,		side-scan		
	ROVVER X	8"+	+1,650'	color	mainline	yes
	Digisewer	 	. 4001	side-scan		
	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	6"+	as long as	color	mainline	no
	Video Nozzle		jetter hose			
R.S. Technical	Helix Manhole	60	up to 50'	N/A	6 2D cameras/	N/A
Services			(deeper opti	ons)	6 live 3D sensors	

LATERAL INSPECTION SYSTEMS								
Company	Model	Pipe Size Pipe	Length Ai	r/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		
	Note: both ur	nits simultaneously in	spect mainlines.					
Envirosight	ROVVER X SAT	6"+	500'	electric	all pipes	extends 150' into lateral from mainline; performs pan/ tilt inspection		
HammerHead Trenchless Equipment	PortaVision	2"-6"	200'	electric	all pipes	·		
RS Technical Services	mainline/ lateral	6"-24" mainline 4"-8" lateral	500' mainline up to 200' lateral	N/A	all pipes	dedicated lateral camera extends up to 150' from mainline		

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"-24"	600'	air/electric		360°	
Pipeline Renewal Technologies	Micro Micro Pro	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,	
	PC200	0 -20	300	air	апу	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	all mini cam mini/mainline mainline mainline	self-propelled; ram extends up to 6" local local remote/auto remote/auto	
Vortex/ Schwalm	Talpa 1300 Talpa 2060	6'-12' 8"-24"	600'	both both	all all	360° 360°	

TRENCHLE	TRENCHLESS PIPE REPLACEMENT							
LATERAL SYST Company	EMS Model	Type Drive	Host Pipe Diameter (in)					
Fibrwrap Construction Services	Tyfo Fibrwrap systems	gas or pressure operated	30+					
HammerHead Trenchless Equipment	PortaBurst PB30G2 PortaBurst Lightning HydroBurst HB3038 HydroBurst HB5058 HydroBurst I00XT 3" HammerHead Mole Pipe Bursting Tool 5 I/8" HammerHead Mole Pipe Bursting Tool	hydraulic hydraulic hydraulic hydraulic hydraulic pneumatic pneumatic	2-6 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					

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.

PIPE REAMING

Company	Model I	Tool Diameter (in)	Tool Length (in)	Host Pipe Diameter (in)	Host Pipe Type
HammerHead	3" SR	3	52	4	ACP,VCP, RCP, concrete, cast iron
Trenchless	5.125" SR	5.125	66	6	ACP,VCP, RCP, concrete, cast iron
Equipment	5.75" SR	5.75	79.5	6	ACP,VCP, RCP, concrete, cast iron
	7" AR	7	81	6-10	ACP,VCP, RCP, concrete, cast iron
	8" AR	8	105	8-12	ACP,VCP, RCP, concrete, cast iron
	12" AR	12	89.2	10-18	ACP,VCP, RCP, concrete, cast iron
	16" AR	16	85.5	12-24	ACP,VCP, RCP, concrete, cast iron
	20" AR	20	108.4	18-26	ACP,VCP, RCP, concrete, cast iron
	24" AR	24	109	20-30+	ACP,VCP, RCP, concrete, cast iron
	8" AI	11.44	32	6-10	ACP,VCP, RCP, concrete, cast iron
	12" AI	14.75	36.8	8-12	ACP, VCP, RCP, concrete, cast iron
		everse;; AR=Air I			L 4 CD 4 CD D CD
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	"	50.5	6-7	ACP, VCP, RCP, concrete, cast iron
	PCG 145	5.75 7	60	7-8	ACP, VCP, RCP, concrete, cast iron
	Olympus PCG 180*	7	66.5	6-8	ACP, VCP, RCP, concrete, cast iron
		8.5	66	8-12 8-12	ACP, VCP, RCP, concrete, cast iron
	Hercules HV 220*	9	75 79	10-12	ACP, VCP, RCP, concrete, cast iron
		1 -	49	10-12	ACP, VCP, RCP, concrete, cast iron
	Mini-Gigant	10	79	10-12	ACP, VCP, RCP, concrete, cast iron
	Gigant PCG 270*	10	84	14-16	ACP,VCP, RCP, concrete, cast iron 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 ACP, VCP, RCP, concrete, cast iron
	Taurus *Reversible	24	144	32-42	ACP, VCP, RCP, concrete, cast iron ACP, VCP, RCP, concrete, cast iron

PUSH	PUSH TECHNOLOGY									
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 Steel 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					
STATIO	C PIPE I	BURSTING SYSTE	MS							

Company	Model	Type Drive	Thrust (ft/lbs)	Pullback (lbs)	Power Unit	Host Pipe Diameter (in)	Host Pipe Types
HammerHead	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
	HydroBurst 100XT	hydraulic	20,000	200,000	pack	3-16	iron, steel ACP,VCP, RCF concrete, cast iron, ductile
	HydroBurst HB125	hydraulic	40,000	250,000	pack	6-20	iron, steel ACP,VCP, RCF concrete, cast iron, ductile
	HydroBurst HB175	hydraulic	25,000	346,000	pack	8-24	iron, steel ACP,VCP, RC concrete, cast iron, ductile iron, steel
	PortaBurst PB30G2	hydraulic	N/A	60,000	pack	2-6	ACP,VCP,, RCI concrete, cast iron
	PortaBurst Lightning	hydraulic	N/A	60,000	pack	2-6	ACP,VCP, RCF concrete, cast iron
T Technologies/ Grundoburst	400S (manhole)	hydraulic	80,000	90,000		4-8	
	400G ′	hydraulic	80,000	90,000	pack	4-8	iron
	800G	hydraulic	100,000	173,000	pack	6-12	iron
	1000G 1250G	hydraulic hydraulic	155,000 250,000	225,000 225,000	pack pack	6-20 6-20	iron iron
	2500G	hydraulic	396,000	570,000	pack	24-48	iron iron
	30TX	hydraulic	60,000	60,000	pack	4-6	iron
	50TX	hydraulic	100,000	100.000	pack	4-8	iron

Company	Model	Pull Force (tons)	Winch Line Diameter (in)	Line Length (ft)
HammerHead Trenchless Equip.	HG375 HG5 HG1200 (hydraulic boom) HG1200AT (hydraulic boom track unit) HG20 HG2200 (hydraulic boom) HG2200AT (hydraulic boom track unit) *usoble length	20 22 22	0.5 0.5 0.625 0.625 0.875 0.875 0.875	3,200* 3,200* 2,000* 2,000* 2,000* 2,000* 2,000*
TT Tech./ Grundowinch	RW 1500 RW 4002 RW 5000 RW 10* RW 10X RW 20 RW 206 RW 40	1.5 4 4 10 10 20 30 40	5/16 7/16 1/2 5/8 5/8 7/8 7/8 1 1/4	600 650 2,100 2,300 2,300 2,300 2,300 2,300 2,600

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