

GROUND PENETRATING RADAR

Company	Model	Frequency	Display Type	Depth (ft.)	Max. Survey Length	GPS	Battery Life (hours)	Unit Weight (lbs)
GSSI	UtilityScanPro	270 MHz	10.4"	18	unlimited	no**	3**	86.5
	UtilityScanPro	400 MHz	10.4"	12	unlimited	no**	3**	60 - 79****
	UtilityScanPro	300/800 MHz	10.4"	16	unlimited	no**	3**	70
	UtilityScanPro	350 MHz-HyperStacking	10.4"	35	unlimited	no**	3**	60-69****
	UtilityScan	350 MHz-HyperStacking	B2 ToughPad	35	unlimited	yes	Tablet = 10; GPR = 7	34
	UtilityScan	350 MHz-HyperStacking	Consumer Grade Tablet	35	unlimited	yes	Tablet = 3; GPR = 7	34
	UtilityScan DF	300/800 MHz	G1 ToughPad	16	unlimited	no**	8	51 or 66****
	UtilityScan HS	350 MHz-HyperStacking	G1 ToughPad	35	unlimited	no**	8	50 or 65****
	*enhanced LED display with internal high brightness; **supports external GPS; ***user replaceable battery; ****cart dependent							
Guideline Geo Inc.	MALA Easy Locator HDR (Paint/Mark)	450MHz HDR	11" Wired (non-touch)	25'	Unlimited	Yes**	2.5-10 ***	26.5-50 ****
	MALA Easy Locator PRO HDR (3D, Save files, MALA Vision)	450MHz HDR	11" Wired (non-touch)	25' *	Unlimited	Yes**	2.5-10 ***	45-55****
	MALA Easy Locator PRO HDR WideRange	80-950MHz HDR	11" Wired (non-touch) Split Screen	15'-30' *	Unlimited	Yes**	2.5-10 ***	57-65lbs ****
	MALA GX750 WiFi or Wired	750MHz HDR	11"Wired or Samsung 10" Wireless	15"	Unlimited	Yes**	2.5-10***	20-50lbs ****
	MALA GX450 WiFi or Wired	450MHz HDR	11"Wired or Samsung 10" Wireless	25"	Unlimited	Yes**	2.5-10***	45-55lbs ****
	MALA GX160 WiFi or Wired	160MHz HDR	11"Wired or Samsung 10" Wireless	40"	Unlimited	Yes**	2.5-10***	40-65lbs ****
	MALA GX80 WiFi or Wired	80MHz HDR	11"Wired or Samsung 10" Wireless	80"	Unlimited	Yes**	2.5-10***	55lbs
	MALA Vision Cloud Based Post Processing (FREE)	NONE	Tablet or Computer	ANY	ANY	YES	NONE	NONE
	*All GPR depth penetration depends on soil conditions ** Internal or External RTK *** 1-4 Batteries **** Cart Dependent							
Radiodetection/SPX	RD1000	250 MHz Ultra Wide Band	8" Touch Screen	27	3,000'	yes	4-6	48
	RD1500	250 MHz Ultra Wide Band	8" Touch Screen	27	3,000'	yes	4-6	48
Sensors and Software	Noggin 250	250 MHz	8" Touch Screen	328*	unlimited**	yes***	6	49
	Noggin Ultra 100	100 MHz	8" Touch Screen	656*	unlimited**	yes***	6	58
	LMX100	250 MHz	8" Touch Screen	26	unlimited**	yes	6	48
	LMX200	250 MHz	8" Touch Screen	26	unlimited**	yes***	6	48
	Conquest	1,000 MHz	8" Touch Screen	3	unlimited**	no	6	9.8
	FINDAR	500 MHz	8" Touch Screen	10	unlimited**	yes***	6	41
*max display depth **projects contain multiple lines for unlimited survey length ***built-in internal, also supports external GPS								
Subsite Electronics	2550 GR	250MHz/700MHz	Intel Core	19/8	unlimited	yes	GPR = 10	73.9
US Radar	Seeker Spr 100	100	10.4"	100	unlimited	yes	5hr x 2	50
	Seeker Spr 250	250	10.4"	50	unlimited	yes	5hr x 2	90
	Seeker Spr 270	270	10.4" *	48	unlimited	yes	5hr x 2	90
	Seeker Spr 400	400	10.4" *	16	unlimited	yes	5hr x 2	90
	Seeker Spr 500	500	10.4" *	15	unlimited	yes	5hr x 2	90
	Seeker Spr 900	900	10.4" *	6.5	unlimited	yes	5hr x 2	50
	Seeker Spr 1000	1,000	10.4" *	6	unlimited	yes	5hr x 2	50
	Seeker Spr 2000	2,000	10.4" *	2	unlimited	yes	5hr x 2	50
	Q5C	500/400 MHz	10.1" *	15	unlimited	yes	5hr x 2	50
	Quantum Imager	200/400/900 MHz	10.4" *	30	unlimited	yes	5hr x 2	70
*Full Color Daylight Readable Touchscreen; **Handheld Full Color Daylight Readable Touchscreen								

KEYHOLE EQUIPMENT

Company	Model	Core Diameter (in)	Core Depth (in)	Power Source (hydraulic/gas)	Mounting Option
SIMCO	Z55PTC	2 - 18	36+	hydraulic	medium pickup/truck w/flat bed, trailer w/25hp Kubota diesel
Utilicor Technologies	Series 500 Heavy Duty Coring Unit	2 - 24	30	PTO/hydraulic	medium duty truck
	MD-300 Multi-Directional Coring Unit Minor-3 Skid Steer Coring Attachment	2 - 24	30	PTO/hydraulic	medium duty truck
	Minor-3 Skid Steer Coring Attachment	2-24	30	auxiliary hydraulic	skid steer
	MC-450 Skid Steer Coring Attachment	2 - 18	30	auxiliary hydraulic	mini track loader/skid steer
	MPX-SS Multi-Platform Coring Unit	2 - 24	30	26 HP EFI gas / hydraulic	trailer/pickup truck/flat deck
	ROVER Self-Propelled and Towable Coring Unit	2 - 24	30	26 HP EFI gas / hydraulic	towable & self-propelled
	Vermeer	CS418B	4-18	12	25-hp Kohler ECH740 Command Pro EFI

LOCATORS (WALKOVER and UTILITY)

Company	Model	Type	Operating Voltage	Battery Life (hours)	Audio Output Frequency (kHz)	Weight (lbs)	Operating Temp. (°F)	Overall Length (in)
DCI (W)	DigiTrak Falcon F5	Receiver	Lithium Ion	8 - 12	0.3 - 45	8.5	-4 to 140	15
	DigiTrak Falcon F2	Receiver	Lithium Ion	10 - 14	4.5 - 45	7.6	-4 to 140	15
	DigiTrak Falcon F1	Receiver	Lithium Ion	5 - 7	9 - 13.5	7.6	-4 to 140	15
	DigiTrak Aurora	Remote	12 - 28 VDC	N/A	N/A	6.4	-4 to 140	11.5
	DigiTrak Aurora	Remote	12 - 28 VDC	N/A	N/A	4.3	-4 to 140	9.8
	DigiTrak FCD	Remote	NIMH	8 - 12	N/A	4.5	-4 to 140	8.5
	FTRSp	Transmitter	2 Cell	20	0.3 - 18	1.7	-4 to 140	15
	FTRSp	Transmitter	Lithium Ion	70	0.3 - 18	2	-4 to 140	19
	FTRSp	Transmitter	2 Cell	20	4.5 - 45	1.7	-4 to 220	15
	FTRSp	Transmitter	Lithium Ion	40	4.5 - 45	2	-4 to 220	19
	FTRSS	Transmitter	123 - 3v Lithium	12	0.3 - 18	1.4	-4 to 220	8
	FT2	Transmitter	2 Cell	20	4.5 - 45	1.7	-4 to 220	15
	FT2s	Transmitter	123 Lithium	12	4.5 - 45	0.5	-4 to 220	8
	FT1	Transmitter	2 Cell	20	9 - 13.5	1.7	-4 to 220	15
	FT1s	Transmitter	123 Lithium	12	9 - 13.5	0.5	-4 to 220	8
	FSDpx	Transmitter	2 Cell	20	12, 19	1.7	-4 to 220	15
	FSDLpx	Transmitter	Lithium Ion	20	12, 19	2	-4 to 220	19
	FSDp	Transmitter	2 Cell	20	12, 1.3	1.7	-4 to 220	15
	FSD 19/12	Transmitter	2 Cell	20	12, 19	1.7	-4 to 220	15
	FSD 12/1.3	Transmitter	2 Cell	20	12, 1.3	1.7	-4 to 220	15
	FX 12	Transmitter	2 Cell	20	12	1.7	-4 to 220	15
	FX 19	Transmitter	2 Cell	20	19	1.7	-4 to 220	15
	FC	Transmitter	12 - 28 VDC	N/A	12	1.9	-4 to 220	19
	FXL 12	Transmitter	Lithium Ion	40	12	2	-4 to 220	19
	FXL 19	Transmitter	Lithium Ion	40	19	2	-4 to 220	19
	FS	Transmitter	1 - AA	10	12	0.5	-4 to 220	8
	ST 12	Transmitter	2 Cell	20	12	1.7	-4 to 220	15
	SES	Transmitter	1 - AA	10	12	0.5	-4 to 180	8
	EDF	Transmitter	2 Cell	10	12, 1.5	1.4	-4 to 220	15
	ET	Transmitter	2 Cell	20	12	1.4	-4 to 220	15

2021 EQUIPMENT SELECTION GUIDE

LOCATORS (WALKOVER and UTILITY) (cont.)

Company	Model	Type	Operating Voltage	Battery Life (hours)	Audio Output Frequency (kHz)	Weight (lbs)	Operating Temp. (°F)	Overall Length (in)
Heath Consultants (U)	Sure-Lock All Pro	Transmitter	lead acid 6 VCD, 7 AH	10-100	8.1, 81, 480	8	-25 to 150	9.25
	Sure-Lock All Pro	Receiver	6 AA-alkaline	90-120	8.1, 81, 480	4.4	-25 to 150	30.5
	Sure-Lock Utility Pro	Transmitter	6 D-alkaline	110-190	81	4	-25 to 150	8.1
	Sure-Lock Utility Pro	Receiver	6 AA-alkaline	90-120	81	4.4	-25 to 150	30.5
	Magna-Lock	Magnetic	6 1.5V AA	100		3	0 to 120	24
	Split-Lock	Transmitter	4 C-alkaline	50	126	3.5	-5 to 158	8.5
	Split-Lock	Receiver	4 C-alkaline	50	126	3.5	-5 to 158	8.5
	vLoc Pro2	Receiver	6 AA or Lithium Ion	12 or 40	Configurable 16 Hz to 200	4.6	-4 to 122	26
	vLoc ML2+	Receiver	6 AA or Lithium Ion	6 or 20	Configurable 16 Hz to 200	5.95	-4 to 122	26
	vLoc 55Tx	Transmitter	8 D-cells; Optional NiMH	5-15; 6-30	Configurable 16 Hz to 200	12.75	-4 to 122	14
vLoc 105Tx	Transmitter	12 D-cells; Optional NiMH	4-25; 7-60	Configurable 16 Hz to 200	15.05	-4 to 122	18	
McLaughlin (U)	Vision LX	Pipe/Cable RX/TX	Alkaline batteries	20	512 Hz, 850 Hz, 9.5, 38, 80 KHz	4.7	-4 to 122	26"
	Vision FLX2	Fault finder RX/TX	Alkaline batteries	20	512 Hz, 0.5, 38, 80 KHz	4.7	-4 to 122	26"
Radiodetection	RD5100 H20	Receiver	Li-ion/2x Alkaline D-Cells	35/13	83 (D-Cells)	4.0 (Li-Ion) / 4.2	14-122	25
	RD5100S	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512/640Hz, 8.33, 65	4.0 (Li-Ion) / 4.2 (D-Cells)	14-122	25
	RD5100H20+	Receiver	Li-ion/2x Alkaline D-Cells	35/13	4kCD, 8.9, 8.33, 65, 83, 131, 200	4.0 (Li-Ion) / 4.2 (D-Cells)	14-122	25
	RD8100 PXL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	577Hz, 640Hz, 870Hz, 940Hz, 4.8, 33, 65, 83, 131, 200	4.0 / 4.2	-4 to 122	25.5
	RD8100 PXLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	577Hz, 640Hz, 870Hz, 940Hz, 4.8, 33, 65, 83, 131, 200	4.0 / 4.2	-4 to 122	25.5
	RD8100 PDL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	ELF	4.0 / 4.2	-4 to 122	25.5
					(98/128Hz), 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200			
	RD8100 PDLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	ELF	4.0 / 4.2	-4 to 122	25.5
					(98/128Hz), 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200			
	RD8100 PTL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	ELF	4.0 / 4.2	-4 to 122	25.5
					(98/128Hz), 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 940Hz, 1090Hz, 1450Hz, 8.8440Hz, 9.8, 33, 65, 82, 83, 131, 200			
	RD8100 PTLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	ELF	4.0 / 4.2	-4 to 122	25.5
					(98/128Hz), 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 940Hz, 1090Hz, 1450Hz, 8.8440Hz, 9.8, 33, 65, 82, 83, 131, 200			
	RD7100 SL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	8.33, 65, 83	4.0 / 4.2	-4 to 122	25.5
	RD7100 DL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65	4.0 / 4.2	-4 to 122	25.5
	RD7100 DLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65	4.0 / 4.2	-4 to 122	25.5
	RD7100 PL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65	4.0 / 4.2	-4 to 122	25.5
	RD7100 PLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65	4.0 / 4.2	-4 to 122	25.5
	RD7100 TL	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65, 131, 200	4.0 / 4.2	-4 to 122	25.5
	RD7100 TLG	Receiver	Li-ion/2x Alkaline D-Cells	35/13	512Hz, 640Hz, 8.33, 65, 131, 200	4.0 / 4.2	-4 to 122	25.5
	1W	Transmitter	Li-ion/4x Alkaline D-Cells	20/8	83	3.5	14-122	13.75
	10W	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	163Hz, 208Hz, 273Hz, 340Hz, 400Hz, 440Hz, 460Hz, 480Hz, 484Hz, 491Hz, 512Hz, 560Hz, 570Hz, 577Hz, 584Hz, 624Hz, 640Hz, 760Hz, 815Hz, 870Hz, 920Hz, 940Hz, 982Hz, 1090Hz, 1450Hz, 4, 8, 8.44, 9.8, 33, 65, 82, 83, 131, 200	8.3 (Li-Ion) / 8.6 (D-Cells)	14-122	13.75
TX-1	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200	8.3/8.6	14-122	13.75	
TX-5	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200	8.3/8.6	14-122	13.75	
TX-5B	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200	8.3/8.6	14-122	13.75	
TX-10	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 8.9, 8.33, 65, 83, 131, 200	8.3/8.6	14-122	13.75	
TX-10B	Transmitter	Li-ion/8x Alkaline D-Cells	8/4	165-1000Hz, 512Hz, 570Hz, 577Hz, 640Hz, 760Hz, 870Hz, 920Hz, 940Hz, 1090Hz, 1450Hz, 4096Hz, 8.8440Hz, 9.8, 33, 65, 82, 83, 131, 200	8.3/8.6	14-122	13.75	
Schonstedt (U)	MPC-Rex	Magnetic + Receiver & Transmitter	1.9V; 1.9V; NiMH (12V)		512 Hz, 33 kHz, 82 kHz	2.4, 2.8; 3.4	-4 - 140	28 & 26
	Rex	Receiver & Transmitter	1.9V; NiMH (12V)		512 Hz, 33 kHz, 82 kHz	2.8; 3.4	-4 - 140	28
	XT-512	Sonde Receiver	1.9V	12	n/a	2.8	-4 - 140	28
	Maggie	Magnetic	1.9V	24	n/a	2.6	-13 - 140	28
	Spot	Magnetic	1.9V	24	n/a	2	-13 - 140	42
	GA-92Xtd	Magnetic	1.9V	24	n/a	2.4	-13 - 140	26
	GA-72Cd	Magnetic	2.9V	60	n/a	2.5	-13 - 140	35
	GA-52Cx	Magnetic	2.9V	40	n/a	2.5	-13 - 140	42
Subsite Electronics (U)	830R	Receiver	2 C-cell alkaline	75	83	5.1	4 to 122	12.1
	830T	Transmitter	6 C-cell alkaline	150	83	4.6	4 to 122	11.1
	M17+	Beacon Transmitter	3.6V Lithium 2 C-Cell	70	1.9-46	2	-4 to 221	17.8
	Marksmen+	Receiver	1 Lithium-ion Rechargeable	16	1.9-46	7	-4 to 122	29.1
	UtiliGuard	Receiver	D-cell selectable alkaline	30	0.05-200	4.8	4 to 122	27.2
	UtiliGuard 2	Receiver	D-cell selectable alkaline	30	0.05-200	4.8	4-122	27.2
	UtiliGuard	Transmitter	D-cell selectable alkaline	100	0.256-200	7.7	4 to 122	12
	TK Recon 1	Receiver	4 C-cell alkaline, NiMH*	10-16	29	9	-4 to 122	30
	TK Recon 2	Receiver	4 C-cell alkaline, NiMH*	10-16	12, 29	9	-4 to 122	30
	TK Recon 4	Receiver	4 C-cell alkaline, NiMH*	10-16	1.5, 12, 20, 29	9	-4 to 122	30
	Commander 7	Remote	12V DC	N/A	N/A	2	-4 to 140	6
	TD Recon	Remote	12V DC	N/A	N/A	2	-4 to 140	7
	TDR Recon	Remote	12V DC	N/A	N/A	2	-4 to 140	7
	15T1	Beacon Transmitter	3.6V lithium 2 C-cell	60	29	2	-4 to 221	15
			3.6V lithium 2 C-cell	16				
	15T3	Beacon Transmitter	3.6V lithium 2 C-cell	60	12, 20, 29	2	-4 to 221	15
			3.6V lithium 2 C-cell	16				
	17T1	Beacon Transmitter	3.6V lithium 2 C-cell	60	29	2	-4 to 221	17.8
			3.6V lithium 2 C-cell	16				
	17TH	Beacon Transmitter	3.6V lithium 2 C-cell	60	29	2	-4 to 221	17.8
		3.6V lithium 2 C-cell	16					
17T4	Beacon Transmitter	3.6V lithium 2 C-cell	60	1.5, 12, 20, 29	2	-4 to 221	17.8	
		3.6V lithium 2 C-cell	16					
17T4G	Beacon Transmitter	3.6V lithium 2 C-cell	60	1.5, 12, 20, 29	2	-4 to 221	17.8	
		3.6V lithium 2 C-cell	16					
19T3	Beacon Transmitter	3.6V lithium 2 C-cell	60	12, 20, 29	2	-4 to 221	15	
		3.6V lithium 2 C-cell	16					
*Rechargeable or Inspired Energy NB2038 Li ion rechargeable.								
Vermeer (U)	Verifier G3	Pipe/Cable RX/TX	Alkaline	18	512 Hz, 850 Hz, 9.5, 38, 80 KHz	4.7	-4-122	26

Microtunneling/Pilot Tube

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Pit Size	Total Thrust (t)
Akkerman	TBM 485C	hydraulic	12,500	48-52	varies	12x20	400
	TBM 420	hydraulic	14,000	51-55	varies	12x20	400
	TBM 480	hydraulic	14,500	58-62	varies	12x20	400
	TBM 540	hydraulic	16,500	65-69	varies	12x20	800
	TBM 600	hydraulic	23,000	72-76	varies	12x20	800
	TBM 660	hydraulic	24,000	79-83	varies	12x20	800
	TBM 720	hydraulic	29,000	86-90	varies	12x20	1,200
	TBM 780	hydraulic	40,000	93-100	varies	12x20	1,200
	EBS 840	hydraulic	33,400	100	varies	20x30	1,200
	EBS 960	hydraulic	3,600	114	varies	20x30	1,200
	EBS 1080	hydraulic	50,500	127	varies	20x30	1,200
	EBS1200	hydraulic	53,000	144	varies	20x30	1,200
	EBS 1440	hydraulic	60,000	168	varies	20x30	1,200
	MTBM SL30C	electric	13,000	30-38	varies	10x14	400
	MTBM SL34C	electric	16,000	34-42	varies	10x14	400
	MTBM SL36C	electric	18,500	36-44	varies	10x14	400
	MTBM SL44C	electric	21,500	44-52	varies	10x14	400
	MTBM SL46C	electric	23,500	48-56	varies	10x14	800
	MTBM SL51C	electric	25,500	51-59	varies	10x14	800
	MTBM SL60C	electric	36,000	60-72	varies	12x14	1,200
	MTBM SL74C	electric	42,000	74-102	varies	12x14	1,200
	MTBM SL72P	electric	varies	72+	varies	varies	1,200
	MTBM SL86P	electric	varies	86+	varies	varies	1,200
MTBM SL100P	electric	varies	100+	varies	varies	1,200	
MTBM SL114P	electric	varies	114+	varies	varies	1,200	
GBM 240A	4,500	4.25 - 24	400+	10x10	100		
GBM 308A	6,000	4.25 - 28.5	400+	8x8	100		
GBM 339A	6,600	4.25 - 31.5	400+	9x9	100		
GBM 4800 Series	13,000	4.25 - 48	400+	12x12	265		

Bohrtec	BM400LSC	hydraulic	8,598	4 - 37.8	varies	8x7*	200
	BM600LSC	hydraulic	13,668	4 - 50.4	varies	8x8*	250

*plus pipe length

Herrenknecht	AVN250	hydraulic	varies	14.29 - 16.34	varies	2M	115
	AVN300	hydraulic	varies	16.34 - 22.24	varies	3M	260
	AVN400	hydraulic	varies	22.24 - 26.18	varies	3M	260
	AVN500	hydraulic	varies	26.18 - 30.12	varies	3M	260
	AVN600	hydraulic	varies	30.12 - 34.45	varies	3M	260
	AVN700	hydraulic	varies	34.45 - 38.38	varies	3.2M	260
	AVN800B	hydraulic	varies	38.38 - 43.70	varies	3.2M	260
	AVN800A	hydraulic	varies	43.70 - 50.98	varies	4.5 x 3.5M	340
	AVN1000	hydraulic	varies	50.98 - 60.63	varies	4.5 x 3.5M	340
	AVN1200	hydraulic	varies	57.11 - 72.44	varies	5 x 4M	510
	AVN1500	hydraulic	varies	72.44 - 77.17	varies	5 x 4M	510
	AVN1600 (D)	hydraulic	varies	74.01 - 85.04	varies	5.5 x 4.5M	850
	AVN1800 (D)	hydraulic	varies	84.25 - 98.43	varies	6 x 4.5M	850
	AVN2000 (D)	hydraulic	varies	94.49 - 118.11	varies	6 x 4.5M	850 - 1,400
	AVN2200 (D)	hydraulic	varies	100.3 - 125.98	varies	varies	1,220 - 1,400
	AVN2400 (D)	hydraulic	varies	118.11 - 141.73	varies	varies	1,220 - 2,100
	EPB1400	hydraulic	varies	66.92 - 70.08	varies	varies	610 - 700
	EPB1500	hydraulic	varies	70.08 - 76.38	varies	varies	610 - 700
	EPB1600	hydraulic	varies	76.38 - 85.04	varies	varies	610 - 700
	EPB1800	hydraulic	varies	84.25 - 98.43	varies	varies	1,220 - 1,400
	EPB2000	hydraulic	varies	94.49 - 118.11	varies	varies	1,220 - 1,400
	EPB2200	hydraulic	varies	106.3 - 125.98	varies	varies	1,220 - 1,400
	EPB2400	hydraulic	varies	118.11 - 141.73	varies	varies	1,220 - 1,400
AVN800B (rock)	hydraulic	varies	37.8 - 42.91	varies	varies	260	
TBM 1200 (rock)	hydraulic	varies	58.66 - 66.93	varies	varies	610 - 700	
TBM 1600 (rock)	hydraulic	varies	76.38 - 85.04	varies	varies	610 - 700	
TBM 2000 (rock)	hydraulic	varies	94.49 - 118.11	varies	varies	1,220 - 1,400	
TBM 2200 (rock)	hydraulic	varies	106.3 - 125.98	varies	varies	1,220 - 1,400	
TBM 2500 (rock)	hydraulic	varies	118.11 - 141.73	varies	varies	1,220 - 1,400	

Note: (D) Slurry machines available with D-Mode/pressure compensation by air cushion in the working chamber

McLaughlin	OTS16	hydraulic	1,200	16"	varies	72" L	N/A
	OTS20	hydraulic	2,100	20"	varies	72" L	N/A
	OTS24	hydraulic	2,300	24"	varies	72" L	N/A
	OTS30	hydraulic	4,200	30"	varies	72" L	N/A
	OTS36	hydraulic	5,300	36"	varies	72" L	N/A
	OTS42	hydraulic	6,250	42"	varies	72" L	N/A
	OTS48	hydraulic	7,000	48"	varies	72" L	N/A
	OTS54	hydraulic	7,800	54"	varies	72" L	N/A
	OTS60	hydraulic	8,350	60"	varies	72" L	N/A

MUD SYSTEMS, HDD

Company	Model	Mud Storage Capacity (gal)	Mud Cleaning Capacity (gpm)	Pump Type	Mixing Method	Screens	Desander, Desilter Cones	Mounting Option (skid/trailer)
American Augers	M-2000*	3,000	200	centrifugal	jets	yes	yes	both
	M-3000*	3,100	300	centrifugal	jets	yes	yes	both
	M-500PD*	6,000	500	tri-plex	jets	yes	yes	rockover
	MCD-1000*	10,000	1,000	centrifugal		yes	yes	rockover
	P600**	N/A	N/A	tri-plex	N/A	N/A	N/A	skid
	P750**	N/A	N/A	quintiplex	N/A	N/A	N/A	skid
*cleaning systems; **mud pumps								
Ditch Witch	MR90	450	90	centrifugal	venturi	2	yes	both
Elgin Separation Systems	KEMTRON 100HD2	500	65 - 130	centrifugal	venturi/recirculation	yes	1 to 2 (4")	both
	KEMTRON 200HD2	1,000	195	centrifugal	venturi/recirculation	yes	3 (4")	both
	KEMTRON 400HD2	2,350	400	centrifugal	venturi/recirculation	yes	6 (4")	both
	KEMTRON 600HD2	4,500	600	centrifugal	venturi/recirculation	yes	8 (4")	both
	KEMTRON 1000HDX	6,000	1,000	centrifugal	venturi/recirculation	yes	10 (5"), 2(12")	both
KEMTRON 1500HDX	9,000	1,500	centrifugal	venturi/recirculation	yes	18 (5"), 3 (10")	both	
Herrenknecht	Separation HKS100	5,280	440	centrifugal	n/a	yes	yes	20' container
	Separation HKS150	5,280	660	centrifugal	n/a	yes	yes	20' container
	Separation HKS300	5,280	1320	centrifugal	n/a	yes	yes	20' container
	Separation HKS FineStage	5,280	1760	centrifugal	n/a	yes	yes	20' container
	HK Mud Mixing Unit	5,020	mixing: 240	centrifugal	jet/venturi	n/a	n/a	20' container
	HK Transfer Tank	7,660	transfer: 1060	centrifugal	jet/venturi	n/a	n/a	20' container
	High Pressure Mud Pump 925 GPM	n/a	n/a	tri-plex	n/a	n/a	n/a	20' container
	High Pressure Mud Pump 740 GPM	n/a	n/a	tri-plex	n/a	n/a	n/a	20' container
McLaughlin	McL-230P	230	N/A	high pressure reciprocating	agitator	no	no	skid
Mud Technology	MCT-450	2,400	450+	centrifugal	jet	yes	yes	both
	MCT-550	3,300	500+	centrifugal	jet	yes	yes	both
	MCT-750	3,300	800+	centrifugal	jet	yes	yes	both
	MCT-800	5,000	800+	centrifugal	jet	yes	yes	both
	MCT-1000	6,500	1000+	centrifugal	jet	yes	yes	both
	MCT-1500	6,500	1500+	centrifugal	jet	yes	yes	both
	MCT-2000	6,500	2000+	centrifugal	jet	yes	yes	both
	MPCT-800	5,130	800+	triplex	jet	yes	yes	trailer
	MPCT-1000	7,000	1000+	triplex	jet	yes	yes	trailer
	MPCT-1500	6,270	1500+	triplex	jet	yes	yes	trailer
	MTP-475	N/A	N/A	triplex	N/A	N/A	N/A	skid
	MTP-475	N/A	N/A	triplex	N/A	N/A	N/A	skid
	MTP-475	N/A	N/A	triplex	N/A	N/A	N/A	skid
	RST 1200	1,200	400+	centrifugal	jet	yes	yes	trailer
	RST 1400	1,400	400+	centrifugal	jet	yes	yes	trailer
TP 7.5		500+	trash pump					
TP 10		625+	trash pump					
TP 15		700+	trash pump					
TP 20		800+	trash pump					

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MUD SYSTEMS, HDD (cont.)

Company	Model	Mud Storage Capacity (gal)	Mud Cleaning Capacity (gpm)	Pump Type	Mixing Method	Screens	Desander, Desilter Cones	Mounting Option (skid/trailer)	
TT Technologies	DS225	225	N/A	diaphragm	centrifugal pump	N/A	N/A	skid	
	DS500	500	N/A	piston	tank propeller	N/A	N/A	skid	
	DS1000	1,000	N/A	piston	tank propeller	N/A	N/A	skid	
	GS225 Combo	225	N/A	diaphragm	tank propeller	N/A	N/A	skid	
	GS225	225	N/A	diaphragm	centrifugal pump	N/A	N/A	skid	
Triflo International	MFS350s	350	50-125	centrifugal	venturi/recirculation	yes	2 (4")*	skidded	
	MFS750s	750	250	centrifugal	venturi/recirculation	yes	4 (4")*	skidded	
	MFS1500s	1500	250	centrifugal	venturi/recirculation	yes	4 (4")*	skidded	
	MFS3000s	3000	500	centrifugal	venturi/recirculation	yes	8 (4")*	skidded	
	MFS3500s	3500	600	centrifugal	venturi/recirculation	yes	10 (4")*	skidded	
	MFS4000sg	4000	600	centrifugal	venturi/recirculation	yes	10 (4")*	skidded	
	MFS6000s	6000	750	centrifugal	venturi/recirculation	yes	12 (4")*	skidded	
	MFS8000s	8000	1000	centrifugal	venturi/recirculation	yes	2 (10"); 16 (4")*	skidded	
	MFS2500c	2500	500	centrifugal	venturi/recirculation	yes	8 (4")*	containerized	
	MFS1500ti	1500	250	centrifugal	venturi/recirculation	yes	4 (4")*	trailer integrated	
	MFS3000ti	3800	500	centrifugal	venturi/recirculation	yes	8 (4")*	trailer integrated	
	MFS8000r	8000	1000	centrifugal	venturi/recirculation	yes	2 (10"); 16 (4")*	rockover	
	*single manifold hydro cyclones								
	Tulsa Rig Iron	MCS-330	2,200	240+	centrifugal	venturi/jet	yes	yes	trailer
MCS-355		3,000	350+	centrifugal	venturi/jet	yes	yes	both	
MCS-365		3,712	400+	centrifugal	venturi/jet	yes	yes	trailer	
MCS-425		4,900	400+	centrifugal	venturi/jet	yes	yes	trailer	
MCS-750		9,000	1,000+	centrifugal	venturi/jet	yes	yes	rockover	
MCS-1000		6,400	700+	triplex	venturi/jet	yes	yes	rockover	
TT-100				Triplex				Skid	
TT-150				Triplex				Skid	
TT-250				Triplex				Skid	
TT-540				Triplex				Skid	
TT-560				Triplex				Skid	
TT-660				Triplex				Skid	
TT-680				Triplex				Skid	
Vermeer	MX125	300 or 500	n/a	centrifugal	venturi/recirculation	n/a	n/a	modular	
	MX300	750 or 1,000	n/a	centrifugal	venturi/recirculation	n/a	n/a	modular	
	R250C	8,361	250	centrifugal	venturi/recirculation	yes	yes	trailer	
	R600T	7,729	600	centrifugal	venturi/recirculation	yes	yes	trailer	

MUD SYSTEMS, Pipe Jacking/TBM/SBM/Microtunneling/Pilot Tube

Company	Model	Mud Storage Capacity (gal)	Mud Cleaning Capacity (gpm)	Pump Type	Mixing Method	Screens	Desander, Desilter Cones	Mounting Option (skid/trailer)
Herrenknecht AG	Separation HKS100	5280	440	centrifugal	n/a	yes	yes	20ft container
	Separation HKS150	5280	660	centrifugal	n/a	yes	yes	20ft container
	Separation HKS300	5280	1320	centrifugal	n/a	yes	yes	20ft container
	Separation HKS FineStage	5280	1760	centrifugal	n/a	yes	yes	20ft container
	Separation HKS500	5280	2200	centrifugal	n/a	yes	yes	20ft container
	HK 8m ³ Mixing Unit	2100	mixing: 105	centrifugal	jet/venturi	n/a	n/a	20ft container
	HK Mud Mixing Unit	5020	mixing: 240	centrifugal	jet/venturi	n/a	n/a	20ft container

PIERCING TOOLS

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Pit Size (ft)	Cycles/Minute	
Footage Tools	U215	pneumatic	25	2	75	3x6	600	
	U262	pneumatic	56	2.5	100	3x6	425	
	U300	pneumatic	75	3	150	3x6	425	
	U400	pneumatic	108	4	150	3 x 6	400	
Hammerhead Trenchless	2" AH PP BL SW	pneumatic	19	2	75	1 x 2.7	714	
	2" RH SR	pneumatic	28	2.06	75	1 x 3.5	470	
	2" RH PP BL	pneumatic	24	2.06	75	1 x 3	515	
	2" AH PP BL	pneumatic	24	2	75	1 x 3	515	
	2.5" CAT PP DF	pneumatic	50	2.64	100	1 x 3	385	
	2.5" AH PP DF	pneumatic	50	2.64	100	2 x 4	385	
	2.5" RH PP DF	pneumatic	50	2.64	100	4 X 7.6	385	
	2.5" RH SR	pneumatic	50	2.64	100	4 X 7.6	385	
	2.5" RH PP SW DF	pneumatic	31	2.64	75	4 X 7.6	600	
	3" CAT PP DF	pneumatic	69	76.00	150	4 X 7.6	370	
	3" AH PP DF	pneumatic	67	76.00	150	4 X 7.6	370	
	3" RH PP DF	pneumatic	67	76.00	150	4 X 7.6	370	
	3" RH SR	pneumatic	67	3.00	150	4 X 7.6	370	
	3" RH PP SW DF	pneumatic	50	3.00	75	4 X 7.6	484	
	3.5" CAT PP DF	pneumatic	71	3.50	150	5 X 7.6	370	
	3.5" RH PP DF	pneumatic	71	3.50	150	5 X 7.6	370	
	4" RH PP DF	pneumatic	131	3.88	150	6 X 7.6	317	
	4" CAT PP DF	pneumatic	148	3.96	150	6 X 7.6	330	
	4" RH SR	pneumatic	136	3.88	150	6 X 7.6	370	
	4.38" CAT PP DF	pneumatic	102	4.38	150	7 X 7.6	315	
	5.125" SR	pneumatic	214	5.25	150	8 X 7.6	333	
	5.125" CAT PP DF	pneumatic	257.4	5.13	150	8 X 7.6	362	
	5.125 PP DF	pneumatic	244.8	5.13	150	8 X 7.6	334	
	5.75" SR	pneumatic	305	5.88	150	8 X 7.6	300	
	Hudco	HP200	pneumatic	28	2	75	1 x 4	500
HP200Q		pneumatic	28	2	75	1 x 4	500	
HP310		pneumatic	78	3.1	150	2 x 5	500	
HP310Q		pneumatic	78	3.1	150	2 x 5	500	
HP300SS		pneumatic	50	3	75	1 x 4	600	
HP312		pneumatic	78	3.1	150	2 x 5	500	
HP400		pneumatic	136	4	200	2 x 6	400	
HP400Q		pneumatic	136	4	200	2 x 6	400	
TT Technologies		P45 Grundomat 1-3/4	pneumatic	20	1-3/4	75	1 x 5.5	580
		P55 Grundomat 2	pneumatic	31	2	75	1 x 3.5	480
	P65 Grundomat 2-1/2	pneumatic	55	2-1/2	100	2 x 4	460	
	P65-PK Grundomat	pneumatic	41	2-1/2	100	2 x 3.5	640	
	P75 Grundomat 3	pneumatic	70	3	150	2 x 5	400	
	P75-PK Grundomat 3	pneumatic	62	3	100	2 x 4	460	
	P85 Grundomat 3-1/3	pneumatic	101	3-1/3	150	2 x 5	390	
	P85-PK Grundomat 3-1/3	pneumatic	88	3-1/3	100	2 x 4	480	
	P95 Grundomat 3-3/4	pneumatic	143	3-3/4	200	2 x 5	320	
	P95-PK Grundomat 3-3/4	pneumatic	123	3-3/4	150	2 x 5	360	
	P100 Grundomat 4	pneumatic	148	4	200+	2 x 5.5	320	
	P100-PK Grundomat 4	pneumatic	124	4	200	2 x 5	400	
	P110 Grundomat 4-1/4	pneumatic	215	4-1/4	200+	2 x 5.5	325	
	P130 Grundomat 5	pneumatic	258	5	300+	2 x 6	340	
P145 Grundomat 5-3/4	pneumatic	370	5-3/4	300+	2 x 7	310		
P160 Grundomat 6-1/4	pneumatic	437	6-1/4	300+	2 x 7	320		
P180 Grundomat 8	pneumatic	573	7	300+	2 x 8	280		
Vermeer MV Solutions	Hole Hammer VHH200	pneumatic	28	2	75	1 x 3-1/2	480	
	Hole Hammer VHH200RT	pneumatic	25	2	75	1 x 3-1/2	480	
	Hole Hammer VHH250	pneumatic	44	2-1/2	100	2 x 4	460	
	Hole Hammer VHH250RT	pneumatic	45	2-1/2	100	2 x 4	460	
	Hole Hammer VHH300	pneumatic	71	3	100	2 x 5	400	
	Hole Hammer VHH300RT	pneumatic	72	3	100	2 x 5	400	
	Hole Hammer VHH330	pneumatic	87	3-1/3	100	2 x 5	400	

SKID STEER LOADERS (mini crawlers/all-surface locators) (cont.)

Company	Model	HP	Operating Weight (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin) (in)	Bucket Capacity (cu ft)
Caterpillar	226D3	67.1	5,849	1,550	110.9"	12.7
	232D3	67.1	6,514	1,990	118.1"	12.7
	236D3	74.3	6,567	1,800	122.9	14.0
	242D3	74.3	7,138	2,200	121.1"	14.0
	246D3	74.3	7,478	2,200	124.2"	15.4
	262D3	74.3	8,296	2,700	124.9"	15.4
	272D3	98	9,133	3,450	127.6"	15.4
	272D3 XE	110	9,573	3,700	128.6	16.7
Ditch Witch	SK600	24.8	2,418	600	76	varies
	SK800	24.8	2,920	911	83	varies
	SK1050	37.0	3,435	1,062	83	varies
	SK1550	43.5	3,990	1,558	94.5	varies
	SK3000	58.9	7,600	3,102	118.0	varies
John Deere	312GR	51	5,905	1,550	115.1	12.3-16.2
	314G	51	6,140	1,760	120	12.3-16.2
	316GR	65	6,180	1,750	115.1	12.3-16.2
	318G	65	6,542	1,945	120	12.3-16.2
	320G	69	7,150	2,190	122.2	15.8 - 21.6
	324G	74	7,700	2,690	126	15.8 - 21.6
	330G	91.2	9,900	3,000	132	16 - 53.9
	332G	100	10,000	3,600	132	17.8 - 53.9
Kubota	SSV65	64	6,790	1,950@ 50%	121.5	14.5
	SSV75	74.3	8,157	2,690@ 50%	128.3	15.8

NOTE: Bucket Capacity based on short lip with cutting edge

Company	Model	HP	Operating Weight (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin) (in)	Bucket Capacity (cu ft)
LiuGong N. America	385B	72	8,250	2,300	129	17.8
New Holland	L213	46	5,070	1,300	18.5	11.5 - 23.7
	L216	57	5,510	1,600	18.5	11.5 - 23.7
	L218	57	6,230	1,800	30.8	15.2 - 27.9
	L220	64	6,470	2,200	29.8	15.2 - 27.9
	L221	74	6,970	2,100	20.3	16.7 - 27.9
	L228	68	8,245	2,800	32.3	16.7 - 27.9
	L234	84	8,900	3,400	30.7	18.4 - 27.9
Vermeer	S450TX	24.8	2,300	500	72	4-6
	CTX50	25	2,100	600	72	4-6
	S925TX (Diesel)	24.5	3,350	925	85.5	4-6
	S925TX (Gas)	40	3,350	925	85.5	4-6
	CTX100	40	3,400	1,035	88	4-6
	CTX160	40	3,850	1,600 (SAE)	88.75	10
Volvo	MC70C	56	6,355	1,550	118.1	0.47 - 0.64
	MC85C	56	6,724	1,753	118.1	0.51 - 0.75
	MC100C	73.8	6,885	2,114	118	0.51 - 0.75
	MC105C	73.8	7,253	2,112	118	0.51 - 0.75
	MC110D	73.6	8,214	2,526	126	0.56 - 0.86
	MC115D	73.6	8,680	2,723	126	0.56 - 0.86
	MC135D	73.8	9,288	3,186	126	0.56 - 0.86

NOTE: Bucket Capacity is cubic yards.

TRACK TRENCHERS, CHAIN

Company	Model	HP	Max. Dig Depth (in)	Max. Dig Width (in)	Operating Weight (lbs)
Ditch Witch	C12X	11.7	24	6	1,360
	C16X	16	36	6	1,895
	C24X	22	36	6	1,915
	C30X	31	48	6	2,100
	RT45	49	63	12	5,375
	RT55	62	62	12	12,000
	RT80	74	92	24	20,370
	RT80 Quad	74	62	24	19,100
	RT105	107	97	24	22,000
	RT120	121	97	24	19,300
	RT120 Quad	121	93	24	26,200
	RT125	121	97	24	22,000
	RT125 Quad	121	93	24	27,200
	R300 Zahn 2wd	30	36	8	1,048
	R300 Zahn 4wd	30	48	12	1,290
	ST37X	37	36	16	4,110
	Tescmec USA	TRS-775**	220	96	24
TRS-885**		205	60	18	46,000
TRS-975**		300	120	36	70,000
TRS-985**		335	72	24	78,000
TRS-1150**		440	144	36	117,000
TRS-1150XHD**		440	168	42	116,000
TRS1075**		335	120	36	90,000
TRS-1085**		335	96	28	95,000
TRS-1100**		385	144	36	110,000
TRS-1175XHD**		440	144	42	147,000
TRS-1475**		630	192	48	240,000
TRS-1675**		800	288	72	275,000
M3*		350	144	40	135,000
M5*		440	168	42	161,000

*mechanical design; **hydraulic design

TRACK TRENCHERS, CHAIN (cont.)

Company	Model	HP	Max. Dig Depth (in)	Max. Dig Width (in)	Operating Weight (lbs)
Toro	Pro Sneak 365	35.5	36	6	2,770
	TRX-16	16	48	6	1,114
	TRX-250	24.5	48	8	1,104
	TRX-300	26.5	48	8	1,114
Trencor	T1060	350	144	36	85,000
	T1360	440	142	42	148,000
	T1460	630	240	54	185,000
	T1660	800	300	60	250,000
	T1760	950	360	72	325,000
Vermeer	PTX40	46.8	42	6	2,740
	PTX42	46.8	42	6	3,240
	PTX44	46.8	42	6	2,940
	RTX130	13	36	6	1,140
	RTX150	20.5	36	6	1,170
	RTX250	25	48	8	1,550
	RTX450	49	60	12	6,205
	RTX550	65/67	60	12	7,800
	RTX750	74	60	12	9,330
	RTX1250i2	127	72	12	16,160
	T555 III	185	96	24	36,500
	T558 III	185	72	24	52,000
	T655 III	250	96	26	59,500
T755 III	275	120	36	82,000	
T855 III	350	144	36	94,000	
T955 III	415	144	42	109,000	
T1055 III	415	168	42	124,000	
T1155 III	540	192	42	170,000	
T1255 III	600	216	48	205,000	

TRACK TRENCHERS, QUAD

Company	Model	HP	Max. Dig Depth (in)	Max. Dig Width (in)	Operating Weight (lbs)
Ditch Witch	RT80 Quad	74	93	24	19,100
	RT120 Quad	121	93	24	26,200
	RT125 Quad	121	93	24	27,200
Vermeer	RTX450	49	60	12	6,205
	RTX550	65/67	60	12	7,800
	RTX750	74	60	12	9,330
	RTX1250i2	127	72	12	16,160

TRENCHERS, ROCKSAW

Company	Model	HP	Max. Digging Depth (in)	Max. Digging Width (in)	Operating Weight (lbs)
Tescmec USA	TRS-975	300	48	12	68,000
	TRS-1075	335	48	12	90,000
	TRS-1100	385	54	14	105,000
	TRS-1275	540	60	16	150,000
Vermeer	RTX550	65/67	60	12	7,800
	RTX1250i2	127	72	12	16,160
	RTX750	74	60	12	9,900
	T555III	185	96	24	36,500
	T855III	350	144	36	94,000

TRENCHERS, RUBBER TIRE

Company	Model	HP	Max. Digging Depth (in)	Max. Digging Width (in)	Operating Weight (lbs)
Ditch Witch	C14	13.5	24	6	1,191
	C16	16	36	6	1,528
	RT45	49	63	12	5,375
	RT55	62	62	12	12,000
	RT80	74	92	24	20,370
	RT105	107	97	24	22,000
	RT120	121	97	24	19,300
	RT125	121	97	24	22,000
Vermeer	PTX40	46.8	42	6	2,740
	PTX42	46.8	42	6	3,240
	PTX44	46.8	42	6	2,940
	RTX450	49	60	12	4,507
	RTX550	65/67	60	12	5,600
	RTX750	74	60	12	5,900
	RTX1250i2	127	72	12	16,160

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TRENCHERS, WHEEL

Company	Model	HP	Max. Digging Depth (in)	Max. Digging Width (in)	Operating Weight (lbs)
Buckeye	7200	350	7' 4"	24"	50,000
	9200 RT	400	7' 4"	30"	57,500
	9200 Magnum Tracked	400	8'	30"	90,000
	9200 T	550	9'	48"	12,000
Ditch Witch	C14	13.5	24	6	1,191
	C16	16	36	6	1,528
	RT45	49	63	12	5,375
	RT55	62	62	12	12,000
	RT80	74	92	12	20,370
	RT80 Quad	74	62	24	19,100
	RT105	107	97	24	22,000

Ditch Witch	RT120	121	97	24	19,300
	RT120 Quad	121	93	24	26,200
	RT125	121	97	24	22,000
	RT125 Quad	121	93	24	27,200
	SI37X	37	36	16	4,110
Tesmec USA	TRS-1075	335	96	40	90,000
	TRS-1175XHD	440	108	54	147,000
	TRS-1375	540	108	66	175,000
	TRS-1575	630	120	72	242,000
	TRS-1675	800	120	93	275,000
Trencor	T1060	375	144	36	90,000 - 110,000
	T13-48/509	509	192	48	127,000-173,000
	T14-54/617	617	240	54	236,000-278,000
	T1660	801	288	60	240,000-320,000
	T1760	950	360	72	246,000-326,000

VACUUM EXCAVATORS

Company	Model	Air/ Water	HP	Capacity (gal)	Compressor (cfm/psi)	Vacuum (cfm/Hg)	Mounting Option
AmeriVac Group	MV700		300	650 / 1,250	3,000	16"	truck
	MV700T		300	1,300 / 1,250	3,000	16"	truck
	MV1000TW		300	1,300 / 1,250	3,000	16"	truck
	MV1000TD		300	650 / 1,900	3,200	16"	truck
	MV1400		370	1,300 / 2,500	3,200	16"	truck
NOTE: Capacity shows water / debris values							
Ditch Witch	FX20	water	25.0	150	N/A	543/15	trailer
	FX25	water	31	500	N/A	543/15	trailer
	FX30	water	24.8	500	n/a	500/15	trailer
	FX50	water	49	1,200	N/A	1,027/16	trailer
	FXT50	both	49	500/800	10 Series: 200/200 12 Series: 300/250	1,020/15"	truck
	FX65	water	74	1,200	n/a	1,215/16	trailer
	FXT65	both	74	500/800	10 Series: 200/200 12 Series: 300/250	1,027/16	truck
	HX30	water	24.8	500/800	n/a	512	trailer
	HX30G	water	31.0	500/800	n/a	36	trailer
	HX50	water	50	500/800	n/a	1,005	trailer
	HX75	water	75	500/800	n/a	1315	trailer
MV800	water	31	800	n/a	36	trailer	
Hi-Vac/X-Vac	X-8	air/water	370	600/8 Yards	200/200	4000/27"	truck
	X-12	n/a	450	1,150/12Yards	N/A	5250/27"	truck
	X-15	air/water	450	1,150/13 Yards	200/200	5800/27"	truck
	X-15	n/a	450	1,700/15 Yards	N/A	5250/27"	truck
Hi-Vac/Aquatech	D-6	air/water	350	600/6 Yards	200/200	5000/18"	Truck
	D-10	air/water	350	1100/10 Yards	200/200	4000/27"	Truck
Ox Equipment	MIS Dino 4.5	air /dry suction	505	5.8 cu. yd.	360cfm /185psi	24,000 cfm	truck
	MIS Dino 4.5 LT	air /dry suction	505	5.8 cu. yd.	360cfm /185psi	24,000 cfm	truck
	MIS Dino 4.5 High Rail	air /dry suction	505	5.8 cu. yd.	360cfm /185psi	24,000 cfm	truck
	MIS Dino 8	air /dry suction	505	10.5 cu. yd.	360cfm /185psi	24,000 cfm	truck
	MIS Dino 12	air /dry suction	505	16 cu. yd.	360cfm /185psi	24,000 cfm	truck
	MIS City Dino	air /dry suction	350	4.5 cu. Yd	320cfm/116psi	11,000 cfm	truck
Ring-O-Matic	FT150	water	25	150		600/15	skid/trailer/truck
	FT150 VLX	water	31	150		600/15	skid/trailer/truck
	275 VLX	water	31	250		600/15	skid/trailer/truck
	350 VLX	water	31	350		600/15	skid/trailer/truck
	550 VLX	water	31	550		600/15	skid/trailer/truck
	850 VLX	water	31	800		600/15	skid/trailer/truck
	1000 VLX	water	31	1,000		600/15	skid/trailer/truck
	1300 VLX	water	31	1,300		600/15	skid/trailer/truck
	275VX	water	24.8/49/60/64	250		600/15	skid/trailer/truck
	350VX	water	24.8/49/60/64	350		600/15	skid/trailer/truck
	550VX	water	24.8/49/60/64	550		600/15	skid/trailer/truck
	850VX	water	24.8/49/60/64	800		600/15	skid/trailer/truck
	1000VX	water	24.8/49/60/64	1,000		600/15	skid/trailer/truck
	1300VX	water	24.8/49/60/64	1,300		600/15	skid/trailer/truck
	350VX HI CFM	both	49/60/64/74	350	150/185	1,000/15	skid/trailer/truck
	550VX HI CFM	both	49/60/64/74	550	150/185	1,000/15	skid/trailer/truck
	850VX HI CFM	both	49/60/64/74	800	150/185	1,000/15	skid/trailer/truck
	1000VX HI CFM	both	49/60/64/74	1,000	150/185	1,000/15	skid/trailer/truck
	1300VX HI CFM	both	49/60/64/74	1,300	150/185	1,000/15	skid/trailer/truck
	1600VX HI CFM	both	49/60/64/74	1,600	150/185	1,000/15	skid/truck
	2000VX HI CFM	both	49/60/64/74	2,000	150/185	1,000/15	skid/truck
	550 Vac Extreme	both	110	550	150/185	1,700/14	skid/trailer/truck
	850 Vac Extreme	both	110	800	150/185	1,700/14	skid/trailer/truck
	1000 Vac Extreme	both	110	1,000	150/185	1,700/14	skid/trailer/truck
	1300 Vac Extreme	both	110	1,300	150/185	1,700/14	skid/truck
	1600 Vac Extreme	both	110	1,600	150/185	1,700/14	skid/truck
	2000 Vac Extreme	both	110	2,000	150/185	1,700/14	skid/truck
	2600 Vac Extreme	both	110	2,600	150/185	1,700/14	skid/truck
	3000 Vac Extreme	both	110	3,000	150/185	1,700/14	skid/truck
	1000 Vac Extreme II	water	110	1,000		2,500/13	skid/truck
	1300 Vac Extreme II	water	110	1,300		2,500/13	skid/truck
	1600 Vac Extreme II	water	110	1,600		2,500/13	skid/truck
	2000 Vac Extreme II	water	110	2,000		2,500/13	skid/truck
	2600 Vac Extreme II	water	110	2,600		2,500/13	skid/truck
3000 Vac Extreme II	water	110	3,000		2,500/13	skid/truck	
1000 Vac Extreme III	water	147	1,000		3,000/12	skid/truck	
1300 Vac Extreme III	water	147	1,300		3,000/12	skid/truck	
1600 Vac Extreme III	water	147	1,600		3,000/12	skid/truck	
2000 Vac Extreme III	water	147	2,000		3,000/12	skid/truck	
2600 Vac Extreme III	water	147	2,600		3,000/12	skid/truck	
3000 Vac Extreme III	water	147	3,000		3,000/12	skid/truck	

VACUUM EXCAVATORS (cont.)

Company	Model	Air/ Water	HP	Capacity (gal)	Compressor (cfm/psi)	Vacuum (cfm/Hg)	Mounting Option
Super Products	Mud Dog 1200	both	425	1,500	6,000	28"	truck
	Mud Dog 1600	both	485	2,000	6,000	28"	truck
	Camel 1200 (HDX)	water	370	1,500	3,500 - 6,000	18" - 27"	truck
Utillscope	VE-75		80	75	850	23"	N/A
	MV-300		80	300	850	23"	N/A
	MV-560		80	560	850	23"	N/A
	MV-800		80	800	850	23"	N/A
	MV-1200		80	1,200	850	23"	N/A
Vacmasters	System 1000	both	68	300, 500 & 800	100/150	850/ 15"	truck/trailer
	System3000	both	99	300	165/185	1,220 / 15"	truck
	System4000	both	155	450, 800	300/220	1,220 / 16"	truck
	System 5000	both	173	500, 700	300/220	1,700 / 16"	truck
	Ssystem 6000	both	250	950	350/250	2,220 / 16"	truck
Vactor	HXX-PD	both	430	1,300*/12/15 yard**	185/150	5,250/28"	chassis
	HXX QuietPak	both	500	1,300*/12/15 yard**	185/150	6,200/28"	chassis
	HXX-824	both	380	1,300*/12/15 yard**	185/150	5,000/18"	chassis
	HXX-FN	both	380	1,300*/12/15 yard**	185/150	N/A	chassis
	HXX-Prodigy	both	300	600*/6 yard**	185/150	3,200/16"	chassis
*water; **debris							
Vermeer	ECO 25-100G	water	24	100	n/a	575/15	skid
	VX50	water	49	500, 800, 1200	n/a	1,025/15	trailer
	VX75	both	74	500, 800, 1200	n/a	1,200/15	trailer
	ECO 50	water	49	500, 800	n/a	1,025/15	truck
	ECO 75	both	74	500, 800, 1200	n/a	1,200/15	truck
	MEGA VAC VX18 PTO	water	350	1,600	n/a	3,200/18" Hg	truck
	EV 150 G	water	27 gas	150	n/a	580	skid/trailer
	LP Mini 373	water	27 gas	300	n/a	580	skid/trailer
	LP 573 XDT	water	24 diesel	500	n/a	580	trailer
	LP 573 SDT	water	49 diesel	500	n/a	1,000	trailer
	LP 573 SGT	water	38 gas	500	n/a	1,000	trailer
	LP 873 XDT	water	24 diesel	800	n/a	580	trailer
	LP 873 SDT	water	49 diesel	800	n/a	1,000	skid/trailer
	LP 873 SGT	water	38 gas	800	n/a	1,000	trailer
	LP 1273 XDT	water	24 diesel	1,200	n/a	580	trailer
	LP 1273 SDT	water	49 diesel	1,200	n/a	1,000	trailer
	LP 1273 SGT	water	38 gas	1,200	n/a	1,000	trailer
	CV 570 GT	water	27 gas	500	n/a	580	trailer
	CV 870 GT	water	27 gas	800	n/a	580	trailer
	CV 1270 GT	water	27 gas	1,200	n/a	580	trailer
	CV 570 SGT	water	38 gas	500	n/a	1,000	trailer
	CV 870 SGT	water	38 gas	800	n/a	1,000	trailer
	CV 1270 SGT	water	38 gas	1,200	n/a	1,000	trailer
	CV 573 SGT	water	38 gas	500	n/a	1,000	trailer
	CV 873 SGT	water	38 gas	800	n/a	1,000	skid/trailer
	MC 573 SDT	water	74 diesel	500	n/a	1,000	trailer
	MC 873 SDT	water	74 diesel	800	n/a	1,000	trailer
	MC 1273 DT	water	74 diesel	1,200	n/a	1,000	trailer
	AIR 573 SDT	both	74 diesel	500	185@160	1,000	trailer
	AIR 873 SDT	both	74 diesel	800	185@160	1,000	trailer
	CS 500 GT	n/a	27 gas	500	n/a	580	trailer
	CS 1200 GT	n/a	27 gas	800	n/a	580	trailer
	HTV 873 PTO	water	300 HP PTO	800	n/a	1,000	truck
VXP VXP500	water	430	8 cu yd	n/a	4,800	truck	
VXP VXT600	water	505	11/16 cu yd	n/a	6,400	truck	

WHEEL LOADERS

Company	Model	HP	Operating Weight (lbs)	Standard Bucket (cu yds)	Tip Load (lbs)	Travel Speed (Fwd/Rev) (mph)
Case	521G	131	24,203	2.1 - 4	17,062	22.3 / 14.1
	521G XT	131	25,404	2.1 - 4	16,767	22.3 / 14.1
	521G XR	131	24,485	2.1 - 4	17,276	22.3 / 14.1
	621G	162	28,159	2.5 - 4.5	24,715	24 / 15.6
	621G XT	162	29,076	2.5 - 4.5	19,587	24 / 15.6
	621G XR	162	29,332	2.5 - 4.5	20,709	24 / 15.6
	721G	179	32,492	2.6 - 5.5	27,355	25 / 19.3
	721G XT	179	33,392	2.6 - 5.5	23,624	25 / 19.3
	721G XR	179	32,851	2.6 - 5.5	23,078	25 / 19.3
	821G	211	40,057	3 - 6	33,583	24.9 / 17.2
	821G XR	211	40,648	3 - 6	26,828	24.9 / 17.2
	921G	242	45,070	3 - 6	38,941	25 / 17.2
	921G XR	242	45,651	3 - 6	31,222	25 / 17.2
	1021G	296	55,282	4.5 - 6.5	45,444	23.6 / 16.5
	1021G XR	296	58,711	4.5 - 6.5	38,219	23.6 / 16.5
1121G	320	61,650	4.5 - 7	49,094	23.2 / 15.8	
1121G XR	320	63,443	4.5 - 7	43,234	23.2 / 15.8	
Caterpillar	903D	74	9,392	0.8 - 1.3	5,070	10
	906M	74	12,331	1.0 - 1.6	7,507	6 / 6
	907M	74	9,666	1.0 - 1.6	7,716	6 / 6
	908M	74	14,026	1.2 - 2.0	8,311	6 / 6
	910	100	17,893	1.7 - 2.5	13,237	25 / 25
	910M	92	17,838	1.7 - 2.5	13,237	25 / 25
	914	110	19,103	1.7 - 2.5	11,845	25 / 25
	914M	92	19,262	1.7 - 2.5	11,845	25 / 25
	918M	112	20,869	1.7 - 2.5	13,578	25 / 25

WHEEL LOADERS (cont.)

Company	Model	HP	Operating Weight (lbs)	Standard Bucket (cu yds)	Tip Load (lbs)	Travel Speed (Fwd/Rev) (mph)
Caterpillar	918M High Lift	115	21,682	1.7 - 2.5	12,439	25 / 25
	920	121	21,742	1.7 - 2.5	12,439	25 / 25
	926M	153	28,770	2.5 - 5.0	19,383	25 / 25
	926M High Lift	153	29,383	2.5 - 5.0	19,383	25 / 25
	930M	164	30,876	2.7 - 5.5	21,928	25 / 25
	930M High Lift	164	31,390	2.7 - 5.5	21,928	25 / 25
	938M	188	36,216	3.3 - 6.5	26,097	25 / 25
	938M High Lift	188	35,995	3.3 - 6.5	26,097	25 / 25
	950M	230	42,357	3.3 - 12.0	28,144	24.9 / 16.0
	962M	250	44,491	3.3 - 12.0	29,877	24.9 / 16.0
	966M	276	51,176	4.19 - 9.68	36,711	24.9 / 24.9
	966M High Lift	276	51,716	4.19 - 9.68	36,711	24.9 / 24.9
	966M XE	298	51,176	4.19 - 9.68	36,711	24.4 / 17.1
	966M XE High Lift	298	51,176	4.19 - 9.68	36,711	24.4 / 17.1
	972M	299	54,871	4.19 - 13.00	40,779	24.9 / 24.9
	972M High Lift	299	54,871	4.19 - 13.00	40,779	24.9 / 24.9
	972M XE	311	54,871	4.19 - 13.00	40,779	24.4 / 17.1
	972M XE High Lift	311	54,871	4.19 - 13.00	40,779	24.4 / 17.1
	980	393	66,877	5.25 - 19.0	43,432	24.5 / 24.5
	980 XE	393	66,877	5.25 - 19.0	43,432	24.5 / 24.5
	980M	386	66,337	5.25 - 16.0	49,897	24.9 / 24.9
	980M High Lift	386	66,337	5.25 - 16.0	49,897	24.9 / 24.9
	982M	398	78,402	6.0 - 15.75	54,640	23.3 / 24.9
	982	404	78,264	6.25 - 22.5	46,526	23.3 / 24.5
	982 XE	404	78,264	6.25 - 22.5	46,526	23.3 / 24.5
	986K	373	98,806	6.5 - 13.5	63,404	24 / 25.4
986K High Lift	373	98,806	6.5 - 13.5	63,404	24 / 25.4	

