

2008 EQUIPMENT SELECTION GUIDE

AUGER BORING

Company	Model	Type Drive	Weight (lbs)	Boring Diam. (in)	Size Pit (ft)	Total Thrust (lbs)
American Augers	24-100	mechanical	2,300*	4-24	9 x 32	100,000
	24-150	mechanical	5,400*	4-24	10 x 32	150,000
	30-225	mechanical	6,800*	4-30	11 x 32	225,000
	36-340	mechanical	8,000*	12-36	11 x 32	340,000
	36-600	mechanical	10,600*	12-36	12 x 35	600,000
	42-600	mechanical	11,000*	12-42	12 x 35	600,000
	48-900	mechanical	15,300*	12-48	12-1/2 x 35	900,000
	60-1200	mechanical	20,800*	12-60	14 x 37	1,200,000
	72-1200	mechanical		24-72		1,200,000
	<i>*machine splits for lighter lifts (master track not included)</i>					

Barco	H-24	hydraulic	1,800*	4-24	5 x 17	100,000
	24-100	mechanical	2,850*	4-24	5 x 32	113,000
	24/30-150	mechanical	4,900**	4-30	8 x 34	176,715
	30/36-200	mechanical	5,573**	4-36	8 x 34	226,000
	36/48-350	mechanical	9,520**	12-48	12 x 34	402,128
	36/48-500	mechanical	10,270**	12-48	12 x 34	580,000
	36/48-900	mechanical	10,770**	12-48	13 x 34	900,000
	48/60-750	mechanical	14,010**	12-60	13 x 34	874,628
	48/60-1200	mechanical	14,760**	12-60	14 x 35	1,200,000
	60/72-1MHD	mechanical	21,400**	12-72	14 x 35	1,166,171
	60/75-1500	mechanical	22,500**	12-72	14 x 35	1,500,000
	72/84-1800	mechanical	24,000**	12-84	14 x 35	1,800,000

***includes master track; **machine splits for lighter lifts (master track not included)*

Bor-It Mfg.	12H*	hydraulic	960	2-12	3 x 9	30,000
	20D*	mechanical	2,200	4-20	4 x 28	51,500
	24**	mechanical	4,200	8-24	6 x 31	100,000
	30**	mechanical	6,500	12-30	7 x 31	200,000
	36**	mechanical	7,800	12-36	8 x 31	300,000
	42**	mechanical	14,000	12-42	10 x 35	500,000
	48**	mechanical	19,000	24-48	10 x 35	753,000
	54**	mechanical	23,000	24-54	10 x 35	1,000,000
60**	mechanical	23,800	24-60	10 x 35	1,200,000	

***includes master track; **machine splits for lighter lifts (master track not included)*

McLaughlin	M-5000	hyd, chain red	280	1 1/4-4	78"	1,000
	McL-12H	hyd, gear red	480	4-12	7	24,500
	McL20B	gas, gear red	1,596	4-20	32	42,000
	McL-24B	diesel, gear red	3,325	4-24	32	115,000
	McL-30/36B	diesel, gear red	5,960	10-36	32	230,000
	McL-36/42C	diesel, gear red	7,400	12-42	34	400,000
	McL-42HD	diesel, gear red	17,250	12-42	34	634,000
	McL-48/54	diesel, gear red	28,175	12-60	34	950,000
	McL-54/60	auger boring	21,550	16-60	35	950,000

The Robbins Company	ABM 36-630	mechanical	10,150*	12-36	12 x 35	630,000
	ABM 42-630	mechanical	10,700*	12-42	12 x 35	630,000
	ABM 48-950	mechanical	14,500*	12-48	12 x 35	950,000
	AMB 60-1270	mechanical	21,000*	24-60	14 x 36	1,270,000
	ABM 72-1270	mechanical	22,850*	24-72	14 x 36	1,270,000

**machine splits for lighter lifts (master track not included)*

BORING - HARD ROCK ATTACHMENTS

Company	Model	Casing Diameter	Hex Size	No. Cutters	Cutter Size	Torque (ft/lbs)	Thrust Range (lbs)
The Robbins Company	SBUA-24	24"	3" (4"opt)	9	6-1/2"	5,800/7,800	45,000/90,000
	SBUA-30	30"	4"	9	6-1/2"	5,800/7,800	45,000/90,000
	SBUA-36	36"	4"	13	6-1/2"	12,600/16,900	65,000/130,000
	SBUA-42	42"	4"	16	6-1/2"	19,300/25,800	85,000/170,000
	SBUA-48	48"	5"	19	6-1/2"	24,600/32,900	95,000/190,000
	SBUA-54	54"	5"	21	6-1/2"	30,600/40,900	105,000/210,000
	SBUA-60	60"	5"	14	6-1/2"	38,200/50,900	187,500/350,000
	SBUA-66	66"	5"	15	6-1/2"	47,100/62,800	200,000/375,000
	SBUA-72	72"	5"	16	6-1/2"	64,100/79,800	225,000/400,000
	<i>Note: Metric sizes available</i>						

BACKHOE-LOADERS

Company	Model	Operating Weight (lbs)	Max. Reach (height to pin)	Backhoe Dig Depth	HP
Allmand Bros.	TLB-220	3,115	90"	8' 4"	20
	TLB-225	3,211	90"	8' 4"	23.5
	TLB-325	4,045	90"	8' 10"	25
	TLB-425	4,320	90"	8' 8"	25
	TLB-535	4,690	90"	9' 11"	33.3
	TLB-6235	5,800	110"	9' 10"	33.3
	Case	580 Super M Plus Series 3	14,905	11' 6"	14' 10"
580 Super M Series 3		14,285	11' 2"	14' 5"	90
580M Series 3		13,359	11' 2"	14' 3"	79
590M Turbo Series 3		15,268	11' 5"	15' 11"	108
590 Super M Series 3		15,268	11' 5"	15' 11"	108

Caterpillar	416E	14,960	10' 11"	17' 11"	78
	420E	15,474	10' 11"	17' 11"	93
	430E	16,066	10' 11"	19' 6"	101
	450E	24,140	11' 5"	21' 4"	137

JCB	210S	12,144	28	10'	67
	212S	12,144	28	12'	70
	212SU	12,278	28	N/A	70
	214E	13,376	32	14' 4"	86
	214	15,439	32	14' 7"	86
	214S	16,446	34	14' 7"	92
	215	17,683	34	16' 3"	92
	215S	17,683	34	16' 3"	92
	217	18,055	32	17' 7"	92
	217S	18,322	34	17' 7"	92

John Deere	110TLB	7,600	N/A	10' 1"	41
	310J	13,800	11' 1"	14' 3"	72
	310SJ	14,430	11' 2"	14' 6"	92
	315SJ	15,470	11' 2"	14' 1"	92
	410J	15,000	11' 0"	15' 10"	95
	710J	23,000	12' 5"	17' 10"	123

Komatsu	WB140-2N	19,731	18' 1"	14' 7"	87
	WB140PS-2N	19,731	18' 1"	14' 7"	87
	WB150-2N	19,731	18' 9"	15' 7"	94
	WB150PS-2N	19,731	18' 9"	15' 7"	94
	WB150AWS-2N	19,731	19' 0"	14' 11"	94
	WB150AWS-2N all wheel steer	19,731	19' 0"	18' 1"	98

Kubota	B21	3,836	20.5"	91.7"	21
	L39	6,987	22.5"	121"	39
	L48	7,760	22.8"	134.6"	48

New Holland	345D	9,100	34"	N/A	60
	445D	10,073	32"	N/A	60
	545D	10,316	32"	N/A	66
	555E	14,775	30"	14' 5"-18' 5"	80
	575ETurbo	15,024	31"	14' 5"-18' 5"	90
	655E	16,105	31"	15' 6"-19' 5"	90
	675E	16,125	31"	15' 6"-19' 5"	100

Terex	TX760B	15,151	19' 3"	14' 8"	86
	TX860B	15,964	19' 3"	14' 8"	94
	TX870B	16,986	19' 10"	15' 11"	94
	TX970B	17,663	19' 10"	15' 11"	94

Terramite	T5C	3,180	132"	8' 4"	20
	T7	4,180	154"	8' 8"	26
	T92WD	4,560	156"	10'	32.8
	T94WD	4,900	156"	10'	32.8

Yanmar	CB140	7,750	13' 2"	10'	37.2
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CABLE LAYERS

Company	Model	HP	Operating Wt. (lbs)	Max. Installation Depth (in)	Max. Reel Capacity (lbs)
Astec	60	13	720	36	N/A
	RT130	13	903	36	N/A
	RT160	24	1,530	48	N/A
	TF300B	18.5	2,450	45	N/A
	Maxi Sneaker Series D	37	2,601	36	300
	RT360	32	3,906	60	300
	RT460	37	5,660	60	300
	RT560	51	7,000	72	1,000
	RT660	67	11,219	72	2,500
	RT960	99	16,000	84	2,500
	T560	193	26,000	96	N/A

Ditch Witch	100SX	11	720	12	N/A
	255SX	24	1,650	12	100
	420SX	41	3,852	24	N/A
	RT40	42.2	4,200	63	N/A
	RT55	60	5,610	62	1,500
	RT75	74	6,920	30	2,000
	RT95	99	7,980	36	2,500
	RT115	115	7,980	36	2,500
	HT115	115	12,000	36	3,000

RWF Industries	150	200	30,000	48	8,000
		250	48,000	72	12,000
		350	58,000	72	12,000
		450	68,000	78	12,000

Vermeer	SP11	11	1,015*	12	75
	SP15	15	1,015*	12	75
	LM11	11.1	725*	12	75
	LM25	25	2,570*	36	100
	LM42	42	3,550*	42	100
	RT450	42	3,380*	24	500
	RTX450	42	4,500*	25	500
	RT650	76	6,600*	30	1,500
	RT700-850	70/85	12,325*	30	2,000
	RT950	99	8,160*	36	3,000
	RTX1250	120	13,620*	42	3,000
	V4150A	45.3	4,200*	24	1,500
	V5800	60	9,000*	N/A	2,000
	V8500A	90	7,058*	36	3,000
	VI20	116	7,158*	36	3,000

*tractor weight

CABLE PLOWS

Company	Model	HP	Max. Depth (in)	Plow Offset Range (in)	Approximate Weight (lbs)
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Astec (see listing under Cable Layers)

Ditch Witch (see listing under Cable Layers)

RWF Industries	V65	50-75	38	48	2,100
	V75-1	75-130	42	48	3,200
	V75-2	120-150	48	51	4,200
	V100	150-200	60	60	6,400
	V150	75-140	42	42	2,600
	HS X-1	75-140	60	60	5,900
	HS-1	150-200	60	66	8,700
	HS-II	210-300	66	65	11,200
	HS-III	320-425	72	72	14,750

Vermeer (see listing under Cable Layers)

CABLE PLOWS, OFFSETTING RAILCAR

Company	Model	Max. Depth (in)	Plow Offset Range (in)	Approximate Weight (lbs)
RWF Industries	BRON HS-III-R2	78	138	26,000
	BRON HS-III-R3	78	186	32,000

CRAWLER DOZERS

Company	Model	HP	Operating Wt. (lbs)	Blade Capacity (cu. yds.)
Case	550H LGP	67	14,960	1.9
	650K LGP Series 3	74.8	19,400	2.6
	750L LGP	84	20,200	2.6
	850L LGP	96	20,700	2.6
	1150K LGP	118	29,365	4.2
	1150K LT	118	27,858	3.8
	1650K XLT-2	140	33,780	4.12
	1650L LGP	144	37,578	4.2
	1850K LGP	194	48,590	4.8
Caterpillar	D3K XL	74	17,185	1.99
	D3K LGP	74	17,842	2.17
	D4K XL	84	17,961	2.59
	D4K LGP	84	18,742	2.42
	D5K XL	96	20,741	2.86
	D5K LGP	96	21,347	3.06
	D6K XL	125	28,409	3.5
	D6K LGP	125	29,690	3.8
	D6N XL	150	36,497	4.16-5.6
	D6N LGP	150	39,112	4.13
	D6T	185	40,550	7.34
	D7R Series II	240	55,050	8.98
	D8T	310	84,850	15.3
	D9T	410	105,600	21.4
	D10T	580	146,400	28.7
D11T	850	230,100	35.5-40	
D11T	850	248,600	57	
John Deere	450J LT	70	16,283	2.14
	450J LGP	74	17,525	2.46
	550J LT	80	17,016	2.35
	550J LGP	84	18,252	2.46
	650J LT	90	18,560	2.91
	650J XLT	90	18,600	2.91
	650J LGP	99	19,750	2.91
	700J LGP	115	28,235	3.75
	700J LT	115	26,080	3.44
	700J XLT	115	27,125	3.44
	750J	145	32,510	4.23
	750J LT	145	34,320	4.23
	750J WT	145	36,350	5.9
	750J LGP	155	36,725	4.98
	850J	185	39,865	7.29

CRAWLER DOZERS (cont.)

Company	Model	HP	Operating Wt. (lbs)	Blade Capacity (cu. yds.)	
John Deere	850J LT	185	42,715	5.15	
	850J WT	185	40,985	7.62	
	850J WLT	185	43,925	5.57	
	850J LGP	200	45,075	5.87	
	850J WLT	185	43,925	5.57	
	850J*	185	46,700	16.0	
	950J	247	56,361	9.4	
	950J LGP	247	59,255	7.9	
	950J*	247	58,462	21.8	
	1050J	335	77,843	11.6	
	1050J*	335	80,967	25.8	
	<i>*waste handler</i>				
	Komatsu	D21A-8	40	8,690	0.75
		D21P-8	40	9,350	0.89
D31EX-21		75	15,720	1.95	
D31PX-21		75	16,870	2.03	
D37EX-21		85	16,340	2.25	
D37PX-21		85	17,130	2.23/2.5	
D39EX-21		95	18,780	2.90	
D39PX-21		95	19,620	3.0	
D41E-6C		110	24,140	3.4/3.8	
D41P-6C		110	25,400	3.4/3.8	
D61EX-15		155	36,420	4.4/5.6	
D61PX-15		155	39,990	5.0	
D65EX-15		190	44,710	4.64/7.34	
D65PX-15		190	46,300	4.64/7.34	
D65WX-15		190	46,610	4.64/7.34	
D85PX-15		240	60,960	7.7	
D85EX-15		240	61,950	6.8/11.1	
D155AX-5LT		310	79,370	11.5	
D155AX-5B		310	86,420	6.4/15.4	
D155AX-6		354	87,100	12.3/15.6	
D275AX-5		410	109,900	17.9/21.17	
D375A-5	525	148,382	24.2/28.8		
D475A-5	860	234,287	35.6/45		
D475A-5SD	860	238,270	58.9		
D575A-3SD	1,150	336,420	90		
Liebherr	PR 724 L	160	36,729	4.15	
	PR724 XL	160	38,129	4.15	
	PR 724 LGP	160	39,738	4.43	
	PR 734 L	200	45,581	7.27	
	PR 734 XL	200	47,300	7.27	
	PR 734 LGP	200	49,860	5.36	

CRAWLER TRACTOR SIDBOOMS

Company	Model	HP	Operating Wt. (lbs)	Lifting Capacity (4' overhang)	
Caterpillar	561N	123	37,150	40,000	
	572R II	240	70,206	90,000	
	583T	310	100,000	140,000	
	587T	366	117,000	202,000	
	Midwestern Mfg.	M510C-JD450/J, CAT D3C/G	75	19,300	10,000
M510C-Kom D37EX		85	18,000	10,000	
M515C-JD550H/J, CAT D4C/G		80	21,300	15,000	
M520C-JD650/J, CAT D5C/G, Case 750K LGP		90	26-28,000	20,000	
M520C-Kom D39EX, Case 850K LTWT		95	26-28,000	20,000	
M530C-Kom D41P		105	31,000	30,000	
M530C-CAT D5H/M/N		110-120	39,000	40,000	
M540C-JD700H/J, LGP		140	39,000	40,000	
M562C-CAT D6D/D6D-LGP		140	41,500	48,000	
M550C-CAT D6M, Kom D61EX		150	45,800	50,000	
M560C-JD 750J-LGP, Kom D61 PX		155	46,900	60,000	
M571CXL-CAT D7E/F/G		200	64,000	80,000	
M572C-CAT D7G-LGP		200	73,000	90,000	
M572C-JD 850J-WLT		185	69,500	90,000	
M572CXL-JD 850J-LGP		200	70,600	100,000	
M583C-CAT D8H/K		300	98,500	140,000	
M583CH-CAT D8N/R		305	102,500	140,000	
M594C-CAT D9H		410	130,000	200,000	
M10R-JD310/410, CAT 416/420/426, Case 580		76	13,500	10,000	
M16R-JD544/644, CAT 928/936		120	23,000	16,000	
M33R-CAT 966, Kom WA500-3		220	46,000	33,000	
mechanical to hydraulic conversion kits: 561 Conv.- CAT 561B/C/D, MD 6 (9U) 571 Conv.- CAT 571E/F/G, MD 7 (17A) 572 Conv.- CAT 572E/F/G 583 Conv.- CAT 583H/K 594 Conv.- CAT 594G/H					

RWF Industries	150P	200	37,000	40,000
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DIRECTIONAL DRILLING RIGS, MINI (Under 50,000 pounds pullback)

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Torque (ft/lbs)	Pullback (lbs)
American Augers	DD-1	rack & pinion	5,600	N/A	1,300	10,000
	DD-3	rack & pinion	16,000	N/A	4,000	28,000
<i>*weights w/o pipe</i>						
Astec	DD-65	rack & pinion	2,600	1.75	500	6,000
	DD-1215	rack & pinion	8,500	2.0	1,500	12,000
	DD-3238	rack & pinion	17,280	2.38	3,800	32,000
Barbo	BD15-PIT	rack & pinion	2,500	varies	1,800*	15,000*
	BD15-10SC	rack & pinion	15,000	varies	1,800*	15,000*
	BD30-15SC	rack & pinion	20,000	varies	3,000*	30,000*
	<i>*continuous duty rating</i>					
Ditch Witch	JT520	hydraulic	3,150	2.5	500	5,000
	JT922	hydraulic	7,100	3	1,100	9,000
	JT1220	hydraulic	9,700	3-4	1,400	12,000
	JT2020	hydraulic	10,800	4-5	2,200	20,000
	JT3020M1	hydraulic	22,300	3.5-5	4,000	30,000
	JT4020M1	hydraulic	27,670	5	5,000	40,000
	JT3020AT	hydraulic	22,200	3.5-5	4,000	30,000
	JT4020AT	hydraulic	28,170	6.25	5,000	40,000
<i>*Operating weight varies depending on selected options.</i>						
McLaughlin	McL-10H	hydraulic motor w/chain reduction	1,200	2-12	1,000	13,500
Melfred Borzall	5120	hydraulic motor w/chain	600-850	3-10	450	10,000
Source HDD	910	hydraulic	6,200	3 min.	1,100	8,200
	1820	hydraulic	10,000	3.5 min.	2,000	18,000
	2462	hydraulic	12,000	3.5 min.	2,250	24,000
	3550	hydraulic	22,500	4 min.	5,500	35,000
TERRA AG	TERRA MINI-JET MJ 1400	hydraulic chain	620	10	1,035	17,600
	TERRA MINI-JET MJ 1600	hydraulic chain	620	12	1,200	17,600
	TERRA MINI-JETLV 1400	hydraulic chain	770	10	1,035	17,600
	TERRA JET 2608 E	hydraulic chain	2,420	16.5	1,920	17,600
TT Technologies	Grundopit 40/60	hydraulic	440	2.1	442	8,800
	Grundodrill 4X	hydraulic	4,100	2.5	950	9,200
	Grundodrill 7X	hydraulic	11,240	3.15	1,254	22,400
	Grundodrill 15X	hydraulic	15,400	3.15	3,100	33,000
Tulsa Trenchless	TR-7	compound cylinder	4,930	N/A	1,250	7,200
	TR-14	compound cylinder	5,360	N/A	1,600	14,000
	TR-30	compound cylinder	15,000	N/A	5,000	30,000
Vermeer	D6x6	chain	3,240	min. 2.25	550	5,500
	D7x11 Series II	rack & pinion	5,660	min. 2.5	1,300	9,000
	D10x14	rack & pinion	7,600	min. 2.25	1,400	9,600
	D16x20	rack & pinion	8,800	min. 3.5	2,000	16,000
	D16x20 Series II	rack & pinion	10,500	min. 3.5	2,000	16,000
	D20x22	rack & pinion	11,160	min. 3.5	2,200	20,000
	D20x22 Series II	rack & pinion	10,600	min. 3.5	2,200	20,000
	D24x40 Series II	rack & pinion	18,440	min. 3.5	4,200	24,000
D36x50 Series II	rack & pinion	19,800	min. 3.5	5,000	36,000	

DIRECTIONAL DRILLING RIGS, MID (50,000 - 100,000 pounds pullback)

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Torque (ft/lbs)	Pullback (lbs)
American Augers	DD-6	rack & pinion	22,250	N/A	10,000	60,000
	DD-8	rack & pinion	26,400	N/A	13,600	80,000
	DD-10	rack & pinion	54,600	N/A	15,000	95,000
	DD-100B	rack & pinion	45,000	N/A	20,000	100,000
<i>*weights w/o pipe</i>						
Astec	DD-6	rack & pinion	22,250	3.5	10,000	60,000
	DD-8	rack & pinion	36,000	3.5	13,600	80,000
Barbo	BD50-15SC	rack & pinion	34,000	varies	8,000*	50,000*
	BD50-20SC	rack & pinion	36,000	varies	8,000*	50,000*
	BD60-15SC	rack & pinion	38,500	varies	12,000*	60,000*
	BD60-50SC	rack & pinion	42,000	varies	12,000*	60,000*
	BD90-15SC	rack & pinion	38,500	varies	12,000*	90,000*
	BD90-20SC	rack & pinion	42,000	varies	12,000*	90,000*
<i>*continuous duty rating</i>						
Central Mine Equipment	CME 50 DD	hydraulic rack/pinion	20,100	5	4,450/9,100	25,125/50,250
Ditch Witch	JT8020	hydraulic	43,900	6	10,000	80,000
	<i>*Operating weight varies depending on selected options.</i>					
Laney Directional Drilling	LDD70	hydraulic cylinder	12,500	up to 12	8,000	70,000

TERRA AC	TERRA-JET 2513D	hydraulic chain	11,200	16.5	1,850	28,600
	TERRA-JET 4514D	hydraulic chain	15,000	20	3,320	30,800
	TERRA-JET 6015D	hydraulic chain	16,000	25	4,425	33,000
Tulsa Rig Iron	HDR-60T	rack & pinion	25,000	N/A	11,000	60,000
	HDR-90T	rack & pinion	35,000	N/A	15,000	90,000
Vermeer	D80x100 Series II	rack & pinion	37,500	min. 5.0	10,000	80,000
	D100x120 Series II	rack & pinion	39,400	min. 5.0	12,000	100,000

DIRECTIONAL DRILLING RIGS, MAXI (over 100,000 pounds pullback)

Company	Model	Type Drive	Weight (lbs)	Torque (ft/lbs)	Pullback (lbs)	
American Augers	DD-140B	rack & pinion	58,000	25,000	140,000	
	DD-220C	rack & pinion	75,000	45,000	220,000	
	DD-330	rack & pinion	94,000	48,000	330,000	
	DD-440	rack & pinion	86,200	51,000	440,000	
	DD-580	rack & pinion	91,000	65,000	580,000	
	DD-625	rack & pinion	73,000	79,500	625,000	
	DD-880	rack & pinion	75,000	88,500	880,000	
	DD-Million Eighty	rack & pinion	92,000	100,000	1,080,000	
	DD-1100	rack & pinion	92,000	100,000	1,100,000	
	DD-1330	rack & pinion	92,000	100,000	1,300,000	
	Barco	BD110-20SC	rack & pinion	43,000	17,500*	110,000*
		BD120-20SC	rack & pinion	48,000	25,000*	120,000*
<i>*continuous duty rating</i>						
Horizontal Rig & Equipment	HRE-500	rack & pinion	65,000	53,000	500,000	
	HRE-750	rack & pinion	88,000	92,000	750,000	
	HRE-1100	rack & pinion	88,000	92,500	1,000,000	
Laney Directional Drilling	LDD120/20	chain drive	20,000	16,000	120,000	
	LDD122/30	chain drive	38,000	30,000	120,000	
	LDD385	hyd. rack/pinion	89,000	30,000	385,000	
	LDD753	hyd. rack/pinion	80,000	110,000	753,000	
Tulsa Rig Iron	HDR-120T	rack & pinion	39,000	22,000	125,000	
	HDR-160T	rack & pinion	45,000	30,000	160,000	
	HDR-160TA	rack & pinion	47,000	38,000	160,000	
	HDR-250	rack & pinion	60,000	38,000	250,000	

HDR-250A	rack & pinion	60,000	47,500	250,000	
HDR-500-1	rack & pinion	65,000	38,000	500,000	
HDR-500-2	rack & pinion	65,000	47,500	500,000	
HDR-500S	rack & pinion	70,000	75,500	500,000	
Vermeer	D200x300	rack & pinion	76,000	30,000	200,000
	D330x500	rack & pinion	90,000	50,000	330,000
	D500x500	rack & pinion	64,000	50,000	500,000
	D750x900	rack & pinion	88,000	92,000	750,000
	D1000x900	rack & pinion	90,000	92,500	1,000,000

EXCAVATORS, MINI (under 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach (height to pin)	Machine Width
Bobcat	418	2,593	10.2	0.03	6'	10' 2"	27.6"-35.4"
	323	3,655	13.3	0.04	7' 6"	12' 10"	38.6"-53.5"
	425* ZTS	5,849	26.4	0.09	8' 3"	14' 10"	60.6"
	325*	6,145	27.7	0.09	8' 5"	13' 11"	55"
	329	7,098	27.7	0.09	10' 2"	16'	60.6"
	331*	7,185	40	0.13	10' 2"	16'	60.6"
	331-E	7,728	40	0.13	12' 10"	18' 5"	60.6"
	430* ZHS	7,885	42.8	0.13	10' 1"	16' 9"	70.1"
	430-E ZHS	8,662	42.8	0.13	12' 9"	19' 2"	70.1"
	335	9,170	40	0.19	11' 8"	17' 11"	70.1"
	435* ZHS	10,555	49	0.19	11' 3"	18' 5"	76"
	337*	11,085	48	0.19	11' 9"	18' 9"	76"
	442 ZTS	16,538	73	0.27	13' 11"	23' 10"	92"
	<i>E = extended reach; *long arm option</i>						
Case	CX17B	3,6380	15.2	1.30	7' 1"	12' 8"	3' 3"
	CX27B	5,556	21.3	3.00	8' 4"	14' 8"	4' 11"
	CX31B	6,679	28.4	4.25	9' 2"	15' 7"	5' 1"
	CX36B	7,958	28.4	6.60	10' 1"	16' 3"	5' 7"
	CX50B	10,261	38.8	9.80	11' 9"	18' 7"	6' 5"
	CX75	17,468	54	0.70	13' 7"	25'	
	CX75 offset boom	17,468	54	0.70	13' 9"	23' 7"	
	CX80	18,585	54	0.70	13' 9"	21' 8"	
Caterpillar	301.6C	3,549	18.1	0.073	7' 7"	9' 7"	
	301.8C	3,703	18	0.073	7' 7"	9' 7"	
	302.5C CR	6,052	24.9	0.145	9' 7"	9' 7"	
	303.5C CR	8,355	39	N/A	9' 7"	11' 10"	
	303C CR	7,575	30	0.1645	10' 5"	13' 1"	
304C CR	10,582	42	0.212	12' 1"	15' 3"		

EXCAVATORS, MINI cont. (under 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach (height to pin)	Machine Width	
Caterpillar	305C CR	11,465	47	0.212	12' 9"	15' 9"		
	307D	15,598	55.6	0.45	15' 1"	21' 11"		
	308D CR	17,306	55.6	0.45	15' 2"	22' 0"		
	308D CR SB	18,519	55.6	0.45	15' 6"	24' 5"		
Hitachi	Zaxis 17U-2	4,173	14.8	0.052	7' 1"	12' 10"	4' 5"	
	Zaxis 27U-2	6,393	26.4	0.052-0.16	8' 7"	15' 4"	5' 1"	
	Zaxis 35U-2	7,672	29.9	0.065-0.22	10' 0.5"	17' 1.5"	5' 8.5"	
	Zaxis 50U-2	10,428	39.9	0.8-0.31	11' 9.7"	19' 0"	6' 6.7"	
	Zaxis 75US	17,714	54	0.19-0.75	15' 1"	22' 2"	7' 7"	
	Zaxis 80	15,905	52	0.19-0.75	15' 4"	21' 3"	7' 5"	
	Zaxis 80 Offset front	17,910	52	0.19-0.75	13' 8"	20' 3"	7' 5"	
JCB	Micro	2,509	17	0.33-1.98*		10' 5"		
	Micro Plus	2,893	17	0.33-1.98*		11' 6"		
	8015	3,149	18.2	0.33-1.98*		11' 10"		
	8017	3,642	18.2	0.33-1.98*		11' 10"		
	8027Z	6,533	26.6	1.08-3.89*		15' 6"		
	8032Z	7,423	26.6	1.08-3.89*		15' 11"		
	804 Super	7,536	25	1.08-5.07*		16' 2"		
	8052	11,365	47	1.08-3.89*		19' 10"		
	8060	13,210	57.6	2.25-8.8*		20' 3"		
								*cubic feet
John Deere	17D	4,173	14.8	0.60-1.40	7' 1"	N/A	3' 3"	
	27D	6,393	26.4	1.33-4.40	8' 7"	N/A	5' 1"	
	35D	7,672	29.9	1.33-5.90	10' 0"	N/A	5' 9"	
	50D	10,428	39.9	2.1-8.3	11' 10"	N/A*	6' 7"	
Kobelco	13SR	3,240	11.9	0.028-0.04	86' 11"	12' 4"		
	25SR-2	5,556	17.7	0.05-0.11	8' 50"	15' 3"		
	30SR-2	6,922	22.7	0.078-0.15	9' 3"	16' 2"		
	35SR-2	8,046	23.7	0.07-0.24	10' 2"	17' 0"		
	45SR	10,428	36.5	0.11-0.36	11' 11"	19' 3"		
	70SR	16,400	54	0.23-0.53	14' 9"	19' 10"		
	80CS	17,600	54	0.23-0.53	14' 4"	23' 6"		
Komatsu	PC09-1	1,985	8.4	0.06-0.78	4' 11"	9' 4"	2' 4"-2' 10"	
	PC18MR-2	4,090	15	N/A	N/A	N/A	3' 3"-4' 3"	
	PC20MR-2	5,060	20.8	N/A	N/A	N/A	4' 8"	
	PC27MR-2	6,590	25.5	N/A	N/A	N/A	5' 1"	
	PC35MR-2	8,245	29.1	N/A	10' 5"	17' 2"	5' 9"	
	PC40MR-2	10,560	39.4	N/A	11' 6"	18' 9"	6' 5"	
	PC50MR-2	11,110	39.4	N/A	12' 6"	19' 11"	6' 5"	
	PC58UU-3	11,540	40	0.29	13' 1"	18' 7"	6' 7"	
	PC78US-6	15,850	54	0.37	13' 5"	20' 6"	7' 7"	
	PC78MR-6	18,230	54	0.37	13' 8"	22' 2"	7' 7"	
PC95R-2	19,290/20,635	82.5	0.24-0.56	13' 1"	22' 6"	7' 3"		
Kubota	K008-3	2,200	10.2	varies	5' 8"	9' 11"	2' 4"-2' 10"	
	KX41-3	3,693	17	varies	7' 9.7"	12' 8.4"	3' 3"-4' 3.2"	
	KX71-3	6,550*	27.5	varies	9' 9"	16'	4' 11"	
	KX91-3S	7,330*	28	varies	10' 5"	16' 10"	5' 1"	
	U35	8,267*	28	varies	10' 4"	16' 11"	5' 7"	
	KX121-3S	9,267*	42	varies	11' 6"	18'	5' 7"	
	KX161-3	11,698	47	varies	12' 7"	20' 1"	6' 5"	
							*reach at ground level	
Link-Belt	75 Spin Ace	17,461	54	0.24-0.45	13' 7"	21' 5"		
	75 Offset Boom	18,188	54	0.24-0.71	13' 9"	21' 4"		
	80 Spin Ace	18,585	54	0.24-0.71	13' 9"	23' 1"		
Mustang	ME1503	3,759	18	1.1	7' 9"	12' 9"		
	ME2203	4,447	18	1.1	8' 7"	13' 10"		
	ME3003	6,875	29	1.8	9' 11"	16' 3"		
	ME3503	7,715	32	1.8	11' 7"	17' 10"		
	ME3703	8,215	32	1.8	11' 2.5"	17' 10"		
	3803ZT	8,002	28	1.8	11' 0"	17' 10"		
	5003ZT	10,582	38	2.5	12' 8.4"	20' 3.5"		
	6003	12,566	57	2.5	13' 7"	20' 11"		
	7503ZT	16,193	57	3.9	14' 2"	23' 8"		
	ME8003	17,548	57	3.9	15' 0"	24' 5"		
	ME12002	25,397	90	14	15' 8"	24' 8"		
	Takeuchi	TB108	2,029	9.2	0.04	5' 6"	9' 6"	29.1"/35.4"
		TB016	3,406	12	0.09	7' 10"	12' 9"	3' 3"/4' 3"
		TB125	6,151	22.5	0.14	9' 6"	15' 6"	4' 9"
TB135		7,606	27.8	0.14	11' 2"	17' 6"	5' 4"	
TB138FR		8,316	27.8	0.14	11' 3"	17' 9"	5' 8"	
TB145		10,562	37.5	0.19	12' 6"	19' 8"	6'	
TB53FR		12,450	38.8	0.19	12' 10"	20' 4"	6' 7"	
TB175		17,230	58.3	0.29	15' 2"	23' 9"	7' 6"	
TB180FR		18,370	60.5	0.29	14' 11"	23' 1"	7' 7"	
Terex	TC16	3,638-3,792	18	1.38-5.18*	7' 9"	13' 5"	3' 3"	
	TC20	4,300-4,455	18	1.38-5.18*	8' 2"	14' 4"	3' 3"	
	TC29	6,285-6,480	28	1.4-4.0*	9' 7"	16' 4"	4' 6"	
	TC35/TC35E	7,720-7,980	32.5	1.4-6.4*	11' 10"	18' 9"	4' 9"	
	TC37	8,047	32.5	1.4-6.4*	11' 1"	18' 6"	5' 8"	
	TC48	10,320-10,920	47	2.5-6.2*	12' 10"	20' 4"	6' 1"	
	TC50	11,067	39.4	2.5-13.2*	12' 1"	20' 4"	6' 1"	
	TC60	12,458-13,140	51.5	2.5-6.2*	12' 3"	21' 0"	6' 5"	
	TC75	16,538-17,086	72	3.3-10.3*	14' 7"	24' 5"	7' 6"	
								*cubic feet

Thomas Equipment	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	
	T15	3,219	17	1.4	7' 9"	12' 10"	
	T15V	3,351	17	1.4	7' 9"	12' 10"	
	T25	6,008	26	2.5	9' 6"	15' 9.8"	
	T35	7,286	29	3.5	11' 3"	17' 11.2"	
	T45	9,998	44.8	5.7	13' 5"	20' 5"	
	T75	16,425	57.3	8.8	13' 10"	22' 6.9"	
Yanmar	SV08-1	2,348*	10.3	0.029	4' 9"	8' 11"	2' 3"-2' 9"
	VI017	3,836*	13.5	0.051	7' 7"	12' 2"	3' 1"
	VI020-3	4,910*	19.2	0.086	8' 7"	13' 8"	4' 6"
	VI027-5	6,460*	21.6	0.104	9' 6"	15' 1"	5' 1"
	VI035-5	7,850*	28.0	0.143	11' 4"	17' 2"	5' 1"
	VI045-5	10,121*	38.7	0.182	12' 8"	19' 1"	6' 5"
	VI055-5	11,312*	38.7	0.209	13' 8"	20' 4"	6' 6"
	VI075-A	17,530	58.2	0.365	15' 5"	22' 11"	7' 5"
	B7E-5A	17,706	58.2	0.365	14' 9"	21' 6"	7' 5"
	SV100	20,730	73.5	0.45	16' 1"	23' 9"	7' 7"

EXCAVATORS, LARGE (over 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	
Case	CX130B	29,500	95	1.00	13' 7"	25' 0"	
	CX135	29,631	95	0.96	17' 11"	31' 3"	
	CX160B	37,700	120	1.00	19' 11"	30' 6"	
	CX210B	47,400	157	1.12	21' 10"	31' 8"	
	CX210B narrow	47,200	157	1.08	21' 9"	31' 8"	
	CX210B long reach	50,660	157	1.98	39' 5"	42' 7"	
	CX225	53,223	153	1.20	22' 0"	35' 10"	
	CX240B	55,120	177	1.38	23' 11"	33' 0"	
	CX240B long reach	61,730	177	0.96	47' 9"	45' 9"	
	CX290B	65,697	207	1.45	24' 5"	34' 1"	
	CX330	78,043	271	2.93	26' 8"	35' 0"	
	CX460	102,974	362	4.05	27' 4"	37' 2"	
	CX700	153,400	425	5.91	31' 11"	41' 8"	
	CX800	177,106	495	5.91	35' 0"	46' 11"	
	Caterpillar	311D LLR	27,514	80	0.97	18' 4"	23' 0"
		312D L	29,650	90	0.97	19' 9"	28' 4"
		314C LCR	32,590	90	1.12	19' 6"	27' 8"
315D L		38,095	115	1.15	21' 7"	30' 0"	
318C L		43,320	125	1.5	20' 9"	27' 2"	
320C L		46,300	138	1.96	25' 1"	27' 7"	
320C LU		50,715	138	1.75	25' 1"	27' 7"	
321C LCR		52,910	138	1.75	21' 9"	31' 2"	
320D L		47,554	148	2.05	20' 11"	32' 4"	
320D L RR		53,361	148	2.05	20' 11"	32' 4"	
321D LCR		53,307	148	1.3	21' 9"	31' 9"	
324D L		52,602	188	2.39	24' 1"	23' 1"	
325D L		64,640	204	2.39	25' 8"	23' 4"	
328D LCR		76,500	204	2.60	22' 8"	35' 4"	
330D L		79,700	268	3.34	27' 9"	24' 9"	
345D L		100,040	380	4.03	26' 11"	39' 9"	
365C L		145,430	404	4.58	30' 10"	46' 3"	
385C		182,800	513	7.7	38' 7"	36' 1"	
Hitachi		Zaxis 120	27,600	88	0.35-1.06	19' 11"	28' 3"
		Zaxis 135US	30,440	88	0.35-1.15	19' 9"	28' 4"
		Zaxis 160LC-3	37,908	121	0.48-1.11	21' 4"	30' 1"
		Zaxis 200LC-3	47,015	159	0.52-1.43	21' 11"	32' 0"
		Zaxis 225USLC-3	53,936	159	0.52-1.43	22' 0"	32' 3"
	Zaxis 240LC-3	54,654	177	0.92-2.03	24' 7"	34' 11"	
	Zaxis 270LC-3	63,425	188	0.92-2.03	25' 11"	36' 6"	
	Zaxis 350LC-3	77,269	271	1.26-2.74	26' 10"	39' 1"	
	Zaxis 450LC-3	106,180	348	1.85-4.18	27' 2"	40' 3"	
	Zaxis 450LC-3***	108,274	348	1.85-4.18	20' 5"	34' 10"	
	Zaxis 650LC-3	152,190	463	2.63-5.0	30' 0"	44' 8"	
	Zaxis 650LC-3***	151,000	463	3.5-6.0	23' 4"	34' 9"	
	Zaxis 850LC-3	185,874	532	1.97-6.05	31' 5"	48' 0"	
	Zaxis 850LC-3***	184,682	532	1.97-7.6	23' 5"	39' 5"	
	EX1200-5D*	238,100	760	3.92-8.5	30' 8"	49' 3"	
	EX1200-5DBE*	240,300	760	3.92-8.5	26' 1"	43' 11"	
	EX1200-5D**	244,700	760	7.7-8.5	17' 2"	37'	

John Deere	80C	15,905	52	0.19-0.75	15' 1"	21' 8"	PC300HD-7MH	89,960	242	N/A	N/A	48'	
	75C	17,714	54	0.19-0.74	15' 1"	22' 2"	PC300LC-7	77,298	246	0.89-2.56	26' 10"	39' 1"	
	80C Offset Boom	17,910	52	0.19-0.75	13' 8"	20' 3"	PC300HD-7	85,868	246	0.89-2.56	26' 7"	39'	
	120C	29,250	89	0.34-1.06	19' 6"	27' 10"	PC400LC-7	103,000	330	1.47-4.15	22' 6"	35' 7"	
	135C RTS	30,440	88	0.35-1.15	19' 9"	28' 4"	PC400LC-7	102,018	345	1.47-3.75	30' 4"	43' 10"	
	160D LC	39,980	121	0.50-1.30	21' 4"	30' 1"	PC600LC-7	133,160	385	3.0-4.48	27' 10"	42' 8"	
	200D LC	49,940	159	0.59-1.60	21' 11"	32' 0"	PC600LC-7MH	144,014	385	N/A	N/A	60'	
	225D LC	53,936	159	0.59-1.60	22' 0"	32' 3"	PC600LC-8	132,280	429	2.05-4.98	27' 10"	42' 9"	
	240D LC	54,654	177	0.92-2.04	24' 7"	34' 11"	PC750-7	175,837	454	3.78-4.85	31' 0"	47' 4"	
	270D LC	63,425	188	0.92-2.04	25' 11"	36' 6"	PC1250-7	249,560	651	4.4	30' 8"	50' 4"	
	350D LC	77,269	271	1.20-3.43	26' 10"	38' 11"	PC1250LC-7MH	259,474	651	N/A	N/A	62'	
	450D LC	106,180	348	1.56-5.01	27' 2"	40' 3"	PC1800-6	405,910	908	14.4	30' 5"	51' 9"	
	450D LC ME	108,274	348	1.56-5.01	20' 5"	34' 10"	PC3000	569,000	1,200	19.5	28' 11"	48' 9"	
	650D LC ME	151,000	463	2.36-5.3	23' 4"	37' 9"	PC4000	870,000	1,875	29.0	26' 3"	54' 6"	
	650D LC	152,190	463	2.36-5.3	30' 0"	44' 8"	PC550	1,135,500	2,520	36.6	25' 0"	58'	
	850D LC ME	18,4674	532	2.74-7.38	23' 5"	39' 5"	PC8000	1,600,000	4,020	50.0	26' 6"	64' 9"	
850D LC	18,5874	532	2.74-7.38	31' 5"	48' 0"								
Kobelco	115SRDX	31,750	84	0.44-.91	18' 1"	27' 4"	R904C	45,591	135	0.92-1.31	19' 4"	30' 2"	
	135SRLC	30,840	94	0.44-.91	19' 7"	28' 9"	R914B	53,263	152	0.39-1.83	20' 6"	30' 10"	
	SK160LC	36,800	111	0.45-1.36	21' 7"	31' 2"	R924B	57,672	173	0.39-2.62	22' 4"	32' 8"	
	ED190	41,800	103	0.5-1.25	21' 4"	31' 2"	R934C	68,983	204	1.24-2.55	20' 8"	32' 11"	
	200SRLC	46,085	123	0.88-1.25	21' 6"	30' 9"	R944C	85,032	260	1.31-3.27	22' 11"	35' 7"	
	SK210LC	47,000	143	0.63-1.60	22' 0"	32' 6"	R954B Shovel	124,560	302	3.27-4.05	27' 11"		
	235SRLC	56,890	143	0.67-1.67	22' 0"	32' 4"	R954B Li	109,348	302	2.61-5.10	27' 7"	40' 0"	
	SK250LC	54,700	176	0.75-1.825	23' 1"	33' 10"	R954B V	115,080	302	2.62-5.10	22' 10"	35' 5"	
	SK290LC	66,100	185	0.75-2.0	23' 9"	35' 4"	R954C	107,828	322	1.7-3.92	25' 1"	37' 7"	
	SK330LC	77,800	238	0.875-2.375	24' 7"	36' 10"	R964B Shovel	143,321	383	4.45-7.59	28' 10"		
	SK480LC	108,045	315	1.5-4.0	25' 7"	39' 7"	R964B Li	138,750	383	2.16-5.62	29' 8"	44' 3"	
							R964B SME	159,800	383	5.23-5.88	23' 7"	38' 3"	
Komatsu	PC120-6	28,375	86	0.44-0.92	18' 1"	26' 10"	R974B Shovel	191,139	537	5.75-9.81	30' 10"		
	PC120LC-6	28,375	86	0.44-0.92	18' 0"	27' 4"	R974B Li	181,330	537	2.88-6.80	32' 2"	47' 11"	
	PC128UU-2	30,360	86	0.24-0.65	16' 0"	23' 11"	R974B SME	203,264	537	7.2-8.1	24' 3"	40' 6"	
	PC138USLC-2	32,537	86	0.46-0.92	19' 4"	28' 7"							
	PC120-6	28,375	89	0.44-0.92	18' 1"	26' 10"	Link-Belt	130 X2	28,440	95	0.42-0.98	18' 2"	26' 10"
	PC120LC-6	28,375	89	0.44-0.92	17' 4"	27' 4"	160 X2	37,700	120	0.50-1.14	19' 11"	29' 8"	
	PC158USLC-2	36,380	99	0.44-0.92	19' 2"	28' 10"	210 X2	47,400	157	0.58-1.53	21' 10"	32' 6"	
	PC160LC-7	37,130	110	0.48-1.24	20' 6"	30' 4"	210 X2 LF	50,710	157	0.50-0.98	39' 5"	51' 2"	
	PC200-7	44,110	143	0.63-2.0	21' 9"	31' 10"	240 X2	54,895	177	0.69-1.87	22' 8"	33' 9"	
	PC200LC-7	46,870	143	0.65-2.0	21' 9"	32' 5"	240 X2 LF	61,729	177	0.50-0.86	47' 9"	60' 1"	
	PC228USLC-3	51,280	143	0.65-2.0	21' 0"	32' 5"	290 X2	65,700	207	0.69-2.43	23' 4"	35'	
PC228USLC-3	51,765	143	0.61-2.0	22' 4"	32' 5"	290 X2 LF	65,700	207	0.69-2.43	46' 4"	60' 3"		
PC200LC-8	47,260	148	0.66-1.57	21' 9"	32' 5"	350 X2	79,146	271	1.08-2.93	24' 1"	36'		
PC220LC-7	55,189	168	0.63-2.20	24'	34' 8"	460 X2	103,838	362	1.58-4.05	25' 4"	39' 4"		
PC220LC-8	54,926	168	0.76-1.85	24'	34' 8"	700 X2	153,442	463	2.12-4.89	27' 7"	43' 2"		
PC270LC-7	62,830	179	0.97-2.45	22' 9"	34' 8"	800 LX	178,200	495	2.47-5.91	31' 1"	48' 2"		
PC308USLC-3	73,146	179	0.97-2.45	22' 6"	34' 8"	135 Spin Ace	29,762	95	0.50-0.98	17' 11"	26' 6"		
PC270LC-7MH	73,850	179	N/A	N/A	46'	225 Spin Ace	53,352	153	0.65-1.75	22' 0"	32' 6"		
PC300LC-7	74,856	242	1.15-2.62	26' 10"	39' 1"								

EXCAVATORS, LARGE cont. (over 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach
Takeuchi	TB1140	31,878	83.4	0.57	18' 0"	28' 1"
Terex	TC125	27,558-28,219	94	0.34-0.70	15' 4"	27' 2"
	TXC 140LC-2	30,864	118	0.28-0.85	18' 6"	27' 3"
	TXC 180LC-2	38,933	118	0.50-1.22	20' 1"	30' 0"
	TXC 225LC-2	47,400	148	0.67-1.67	21' 9"	32' 6"
	TXC 255LC-2	54,200	166	0.67-1.67	22' 4"	32' 10"
	TXC 300LC-2	67,240	197	1.05-2.29	26' 3"	36' 11"
	TXC 340LC-2	77,603	247	1.63-2.39	27' 2"	38' 7"
	TXC 420LC-2	93,480	293	1.88-2.83	27' 8"	39' 4"
	TXC 480LC-2	104,700	328	2.24-3.73	25' 7"	39' 9"
	TXC 520LC-2	111,775	328	1.20-4.19	27' 8"	41' 7"

EXCAVATORS, WHEELED

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	Travel Speed (mph)
Caterpillar	M313D	35,715	128	1.4	18' 11"	30' 3"	23
	M315D	40,345	136	1.47	20'	31' 5"	21

	M316D	43,651	158	1.47	20'	31' 5"	23
	M318D	44,313	166	1.65	20' 8"	31' 6"	23
	M322D	49,604	165	2.05	20' 8"	33' 10"	15
Hitachi	Zaxis 180W**	42,549	121	0.59-1.60	19' 3"	29' 8"	18.6
	Zaxis 180W*	41,447	121	0.59-1.60	19' 0"	30' 8"	18.6
	Zaxis 210W**	46,562	147	0.59-1.60	19' 11"	31' 8"	15.5
	Zaxis 210W*	45,400	147	0.59-1.60	21' 1"	32' 8"	15.5
	*monoblock boom; **2-piece boom						
John Deere	180C W**	41,447	123	0.59-1.60	19' 0"	30' 8"	18.6
	180C W**	42,549	123	0.59-1.60	19' 4"	29' 8"	18.6
	210C W**	45,400	148	0.59-1.60	21' 1"	32' 8"	15.5
	210C W**	46,562	148	0.59-1.60	19' 11"	31' 8"	15.5
	*monoblock boom; **2-piece boom						
Liebherr	A 900 C	37,478	120	0.33-1.11	17' 9"	28' 7"	12.4
	A 904 C	43,400	135	0.18-1.37	19' 8"	30' 4"	12.4
	A 914 B	43,871	152	0.39-1.83	16' 3"	27' 9"	12.4
	A 924 B	49,824	173	0.39-1.83	17' 11"	30' 0"	12.4
Terex	TW 110	24,230	100	0.34-0.83	14' 2"	27' 2"	12.4
	1705M	33,510-34,833	148	1.07-1.46	18' 8"	30' 2"	12.4
	1905M	38,801-39,903	182	0.98-1.49	20' 4"	31' 8"	12.4
	2205M	45,636-46,517	182	0.99-1.75	22' 2"	34' 3"	12.4

HDD MUD SYSTEMS

Company	Model	Mud Storage Capacity (gal)	Mud Cleaning Capacity (gpm)	Pump Type	Mixing Method	Shaker Screens	Desander, Desilter Cones	Mounting Option (skid/trailer)
Astec	FM-130	500	130	centrifugal	jet	no	no	skid
	FM-330	500/1,000	330	centrifugal	jet	no	no	skid
	MCM-4000	4,000	400	centrifugal	jet	yes	yes	both
	MCM-2000	2,000	320	centrifugal	jet	yes	yes	both
Ditch Witch	FM5	300	N/A	centrifugal	venturi/jet	N/A	N/A	both
	FT5	200	N/A	centrifugal	venturi	N/A	N/A	both
	FM13V	500/1,000	N/A	centrifugal	venturi/jet	N/A	N/A	both
	FM25	500/1,000	N/A	centrifugal	venturi	N/A	N/A	both
	FM50	500/1,000/2,000	N/A	centrifugal	venturi/jet	N/A	N/A	both
Kem-Tron	Samba 65 Mini	500	65	2/3 hp sump pump	jet	yes	yes	skid
	Samba 130 Mini	500	130	3/5 hp sump pump	jet	yes	yes	skid
	Samba 130	1,000	130	2/3 hp sump pump	jet	yes	yes	both
	Simple Simon	1,800	190	3/5 hp sump pump	jet	yes	yes	both
	Salsa 250	1,800	250	5 hp sump pump	jet	yes	yes	both
	Tango 350	3,300	350	10 hp sump pump	jet	yes	yes	both
	Tango 500	varies	500	varies	agitators	yes	yes	both
	Tango 1000	varies	1,000	varies	agitators	yes	yes	both
	KT-1500	5,000	1,500	varies	agitators	yes	yes	skid
McLaughlin	McL-230P	230	N/A	high pressure reciprocating	agitator	no	no	skid
Parchem	CS-150	1,400	150					
	CS-300	1,400	300					
	CS-400	4,200/100 (bbl.)	400					
	CS-500	7,350/175 (bbl.)	500					
	CS-1000	8,400/200 (bbl.)	1,000					
SiteTec	M600D	1,588	N/A	centrifugal	venturi/jet/agitator	N/A	N/A	both
	M1000E	3,170	N/A	centrifugal	venturi/jet/agitator	N/A	N/A	both
	M2002E	6,600	N/A	centrifugal	venturi/jet/agitator	N/A	N/A	both
	R200DE	265	53	centrifugal	N/A	yes	yes	both
	R400E	395	105	centrifugal	N/A	yes	yes	both
	R1000E	1,320	265	submersible pump	N/A	yes	yes	both
	R2000E	2,110	525	centrifugal	N/A	yes	yes	both
	ST1500E	3,960	N/A	centrifugal	jet	N/A	N/A	skid
	ST2500E	7,925	N/A	centrifugal	jet	N/A	N/A	skid
	P500D	N/A	N/A	high pressure, triplex	N/A	N/A	N/A	skid
	P1000DH	N/A	N/A	high pressure, triplex	N/A	N/A	N/A	skid
	P2500D	N/A	N/A	high pressure, triplex	N/A	N/A	N/A	skid
	PM3D	N/A	N/A	centrifugal	N/A	N/A	N/A	both
	PM4E	N/A	N/A	centrifugal	N/A	N/A	N/A	both
	PM6E	N/A	N/A	centrifugal	N/A	N/A	N/A	both
	MP201DH	790	N/A	centrifugal/high pressure	venturi/jet/agitator	N/A	N/A	skid
	MP500DH	1,850	N/A	centrifugal/high pressure	venturi/jet/agitator	N/A	N/A	skid
	MP1000DH	2,110	N/A	centrifugal/high pressure	venturi/jet/agitator	N/A	N/A	skid
Source HDD	Performix	varies	365	centrifugal/wet seal	venturi/tank gun	N/A	N/A	skid
	Performix Ultra	varies	450	centrifugal/wet seal	venturi/tank gun	N/A	N/A	skid
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	MFS 1200	1,200	100-150	centrifugal	yes		N/A	skid
	MFS 2500	2,500	350	centrifugal	yes		N/A	skid
	MFS 3500	3,500		centrifugal	yes		N/A	skid
	MFS 4200	4,200						
	MFS 6000	6,000						
	MFS 12000	12,000	750-1,200	centrifugal	venturi/agitator	yes	yes	skid
Tulsa Rig Iron	MCS-325	2,000	240					
	MCS-350	3,200	400					
	MCS-335	2,000	240					
	MCS-400	3,200	400					
	MCS-500	5,000	500					
	MCS-750	8,400	1,200					
	MCS-1000	6,000	800					
Vermeer	MX125	300 or 500	N/A	centrifugal	venturi/recirculation	N/A	N/A	modular
	MX240	750 or 1,000	N/A	centrifugal	venturi/recirculation	N/A	N/A	modular

PIERCING TOOLS

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit	Cycles/Minute	
Allied Const. Products	218C	pneumatic	28	2-1/8	40	3 x 5	535	
	HH-57	pneumatic	31	2.24	40	3 x 5	585	
	HH-68	pneumatic	53	2.68	150	3 x 5	480	
	HH-68(TH)	pneumatic	56	2.68	150	3 x 5	480	
	1000C(TH)	pneumatic	72	3	150	3 x 5	400	
	HH-79	pneumatic	75	3-1/10	150	3 x 5	440	
	HH-79(TH)	pneumatic	80	3-1/10	150	3 x 5	440	
	2100C(TH)	pneumatic	125	3-7/8	150	3 x 5	400	
	2501C(TH)	pneumatic	140	4-1/16	150	3 x 6	400	
	3000C(TH)	pneumatic	195	5-1/8	150	3 x 6	400	
	4000	pneumatic	282	6	150	3 x 8	400	
	Astec	AM134K*	pneumatic	17.6	1.75	50-100	4 x 5	500
		AM134RRK**	pneumatic	17.6	1.75	50-100	4 x 5	500
		AM134SNK***	pneumatic	17.6	1.75	50-100	4 x 5	500
		AM134SNRRK****	pneumatic	17.6	1.75	50-100	4 x 5	500
		AM218K*	pneumatic	24.25	2.125	50-100	4 x 5	550
		AM218RRK**	pneumatic	24.25	2.125	50-100	4 x 5	550
AM218SNK***		pneumatic	24.25	2.125	50-100	4 x 5	550	
AM218SNRRK****		pneumatic	24.25	2.125	50-100	4 x 5	550	
AM300K*		pneumatic	68.3	3	50-100	5 x 6	490	
AM300RRK**		pneumatic	68.3	3	50-100	5 x 6	490	
AM300SNK***		pneumatic	68.3	3	50-100	5 x 6	490	
AM300SNRRK****		pneumatic	68.3	3	50-100	5 x 6	490	
AM414K*		pneumatic	86	4.25	50-100	6 x 6	490	
AM414RRK**		pneumatic	86	4.25	50-100	6 x 6	490	
AM414SNK***		pneumatic	86	4.25	50-100	6 x 6	490	
AM414SNRRK****	pneumatic	86	4.25	50-100	6 x 6	490		
<i>All models are EarthPro Mole</i>								
<i>*floating head; ** floating head rapid reverse; *** smooth nose; ****smooth nose rapid reverse</i>								
Ditch Witch	PA225	pneumatic	31	2.24	50+	2 x 4	585	
	PA270	pneumatic	53	2.68	75+	2 x 5	450	
	PA270T	pneumatic	56	2.68	75+	2 x 5	450	
	PA310	pneumatic	75	3.10	100+	2 x 6	440	
	PA310T	pneumatic	80	3.10	100+	2 x 6	440	
	PA425	pneumatic	170	4.25	100+	2 x 7	425	
	PA425T	pneumatic	177	4.25	100+	2 x 7	425	

Footage Tools	U215	pneumatic	23	2	150	3 x 6	400
	U262	pneumatic	56	2.5	150	3 x 6	400
	U300	pneumatic	75	3	150	3 x 6	400
	U400	pneumatic	108	4	150	3 x 6	400
HammerHead	2" RH SR	air	28	2	75	1 x 3.5	470
	2" RH PP	air	24	2	75	1 x 3	515
	2" AH PP	air	24	2	75	1 x 3	515
	2" RH PP BL	air	24	2	75	1 x 3	515
	2" AH PP BL	air	24	2	75	1 x 3	515
	2.5" CAT PP	air	50	2.5	100	1 x 3	385
	2.5" RH SR	air	50	2.5	100	2 x 4	385
	2.5" RH PP	air	50	2.5	100	2 x 4	385
	2.5" AH PP	air	50	2.5	100	2 x 4	385
	2.2" RH PP SW	air	32	2.5	75	2 x 3	720
	3" CAT PP	air	69	3	150	2 x 5	370
	3" RH SR	air	67	3	150	2 x 5	370
	3" RH PP	air	67	3	150	2 x 5	370
	3" AH PP	air	67	3	150	2 x 5	370
	3" RH PP SW	air	35	3	75	2 x 3	720
	3.5" AH PP	air	71	3.5	150	2 x 5	370
	4" RH SR	air	136	3.875	150	2 x 6	370
	4.375" CAT PP	air	180	4.375	150	2 x 6	338
	5.125" SR	air	214	5.125	150	2 x 6	333
	5.5" SR	air	170	5.5	150	2 x 6	370
	5.75" SR	air	305	5.75	150	2 x 8	300
	7"AR	air	511	7	150	2 x 8	295
	8"AR	air	900	8	150	2 x 10	223
<i>RH-replaceable head; SR-screw reverse; PP-Power Port; AH-Active Head; BL-boltless; CAT- Catamount; SW-Sidewalker; AR-air reverse</i>							
Hudco	HP200	pneumatic	28	2	75	4	520
	HP250	pneumatic	56	2-1/2	150	5	400
	HP310	pneumatic	80	3	150	5	400
	HP310B	pneumatic	80	3	150	5	400
	HP300SS	pneumatic	50	3	75	45	620
	HP312	pneumatic	78	3-1/8	150	5	520
	HP387	pneumatic	123	3-7/8	200	6	400
	HP400	pneumatic	136	4	200	6	420
	HP550	pneumatic	166	5-1/2	200	6	375
	HP525	pneumatic	204	5-1/4	200	6	375
	HP650	pneumatic	370	6-1/2	200	7	375
	HP1025	pneumatic	1,450	10-1/4	300	9	200

PIERCING TOOLS cont.

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit	Cycles/Minute
TT Technologies	Grundosteer 70	pneumatic	85	3	200	2 x 7	400
	Grundobore 200S	pneumatic	794	4-6	N/A	N/A	N/A
	P45 Grundomat 1-3/4	pneumatic	20	1-3/4	75	2 x 7	580
	P45-PK Grundomat 1-3/4	pneumatic	17	1-3/4	75	1 x 2	680
	P55-PK Grundomat 2	pneumatic	27	2	75	1 x 3-1/2	480
	P55 Grundomat 2	pneumatic	31	2	75	1 x 3-1/2	480
	P65 Grundomat 2-1/2	pneumatic	55	2-1/2	100	2 x 3	460
	P65-PK Grundomat	pneumatic	41	2-1/2	100	2 x 3	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	84	3-1/3	100	2 x 4	480
	P95 Grundomat 3-3/4	pneumatic	150	3-3/4	200	2 x 5	320
	P95-PK Grundomat 3-3/4	pneumatic	128	3-3/4	150	2 x 6	360
	P100 Grundomat 4	pneumatic	124	4	200+	2 x 6	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 6	325
	P130 Grundomat 5	pneumatic	258	5	300+	2 x 6	340
P130-PK Grundomat 5	pneumatic	170	5	200	2 x 5	370	
P145 Grundomat 5-3/4	pneumatic	370	5-3/4	300+	2 x 7	310	
P160 Grundomat 6	pneumatic	437	6-1/4	300+	2 x 7	320	
P170 Grundomat 7	pneumatic	573	6-1/4	300+	2 x 8	280	
P180 Grundomat 8	pneumatic	573	7	300+	2 x 8	280	

TERRA	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit	Total Thrust
	TU 045 SK	air	20	1-3/4	75	3 x 3	475
	TU 055 SK	air	29	1-3/4	75	3 x 3	520
	T 068mini SK	air	42	1 - 3-1/4	75	3 x 3	480
	T 068plus SK	air	60	1 - 3-1/4	75	3 x 3	420
	TU 068plus SK	air	60	1 - 3-1/4	75	3 x 3	420
	T 080mini SK	air	52	up to 6	75	4 x 5	550
	T 080plus SK	air	81	up to 6	75	4 x 5	395
	TU 080plus SK	air	85	up to 6	75	4 x 5	395
	TU 080plus SK w.KOK-LD	air	92	up to 6	150	4 x 5	395
	TU 090mini SK	air	77	up to 6	75	4 x 5	550
	TU 090plus SK	air	101	up to 6	75	4 x 5	395
	TU 090plus SK w.KOK-LD	air	108	up to 6	150	4 x 5	395
	TU 105mini S	air	101	up to 8	75	5 x 5	540
	T 105 S/F	air	132	up to 8	75	5 x 5	360
	TU 105 S/F	air	143	up to 8	75	5 x 5	360
	TU 105 S/F w.KOK-LD	air	156	up to 8	150	5 x 5	360
	T 135 S/F	air	264	up to 12	75	6 x 6	350
	TU 135 S/F	air	275	up to 12	75	6 x 6	350
	TU 135 S/F w.KOK-LD	air	303	up to 12	75	6 x 6	350
	TU 155 w.KOK-LD		400	up to 12	75	6 x 6	285
	TU 155 w/ram head		372	up to 12	75	6 x 6	285
	T 190F	air	500	up to 20	75	N/A	275
	w.KOK-LD						

PIPE JACKING/MICROTUNNELING

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit	Total Thrust
Akkerman	WM360TBM	*	11,440	44-48	1,000	12 x 20	400T
	WM48SCTBM	*	15,000	48-52	1,000	12 x 20	400T
	WM420TBM	*	10,000	51-55	1,000	12 x 20	400T
	WM480TBM	*	5,800	58-62	1,000	12 x 20	400T
	WM540TBM	*	14,500	65-69	1,000	12 x 20	800T
	WM600TBM	*	23,000	72-76	1,000	12 x 20	800T
	WM660TBM	*	20,000	79-83	1,000	12 x 20	800T
	WM720TBM	*	26,280	86-90	1,000	12 x 20	1,200T
	WM780TBM	*	32,300	93-100	1,000	12 x 20	1,200T
	EX50Excavator		varies	87-170	unlimited	20 x 30	1,200T
	SL24MTBM	**	10,440	24-32	500	10 x 14	400T
	SL30MTBM	**	15,000	30-38	500	10 x 14	400T
	SL36MTBM	**	17,500	36-44	500	10 x 14	400T
	SL44MTBM	**	21,800	44-52	1,000-1,500	10 x 14	400T
	SL48MTBM	**	23,000	48-56	1,000-1,500	10 x 14	800T
	SL51MTBM	**	25,000	51-62	1,000-1,500	10 x 14	800T
	SL525MTBM	**	36,700	52.5-63.5	1,000-1,500	10 x 14	800T
	SL58MTBM	**	35,000	58-69	1,000-1,500	10 x 14	800T
	SL65MTBM	**	38,000	65-76	1,000-1,500	10 x 14	800T
	SL72MTBM	**	54,800	72-86	1,000-1,500	12 x 14	1,200T
	SL79MTBM	**	61,200	79-93	1,000-1,500	12 x 14	1,200T
	SL86MTBM	**	76,000	86-100	1,000-1,500	12 x 14	1,200T

Note: Pit size assumes pipe length is 8 ft.
*infinitely variable hydraulic; **infinitely variable electric

Herrenknecht	BM150DT	hydraulic	varies	6-11	varies	1.2M	15T
	BM150D	hydraulic	varies	6-11	varies	1.5M	25T
	BM300	hydraulic	varies	12-22	varies	2M	75T
	BM500	hydraulic	varies	19.7-38.6	varies	3.2M	160T
	AVN250	hydraulic	varies	14.29-16.34	varies	2M	115T
	AVN300	hydraulic	varies	16.34-22.24	varies	3M	260T
	AVN400	hydraulic	varies	22.24-26.18	varies	3M	260T
	AVN500	hydraulic	varies	26.18-30.12	varies	3M	260T
	AVN600	hydraulic	varies	30.12-34.45	varies	3M	260T
	AVN700	hydraulic	varies	34.45-38.38	varies	3.2M	260T
	AVN800	hydraulic	varies	38.38-43.70	varies	3.2M	260T

AVN800	hydraulic	varies	43.70-50.98	varies	4.5x3.5M	340T
AVN 1000	hydraulic	varies	50.98-60.63	varies	4.5x3.5M	340T
AVN 1200	hydraulic	varies	57.11-72.44	varies	5x4M	340/520T
AVN1500	hydraulic	varies	72.44-77.17	varies	5x4M	varies
AVN1600	hydraulic	varies	74.01-85.04	varies	5.5x4.5M	varies

*BM equipment complete with self-contained generator.
*BM150DT can be operated from collector sewer.
*Other diameters available; open to discussion.

Wirth/Soltau	Model	Type Drive	Capacity (lbs)	Pipe Diameter (in)	Dimensions (beam)	Weight (lbs)	Carrier Type
	RVS80	pilot/hydraulic	N/A	6-18		300	pipe + 40" 80T
	RVS100A	auger/hydraulic	N/A	10-16		325	pipe + 48" 115T
	RVS250A	auger/hydraulic	N/A	18-48		500	pipe + 72" 290T
	RVS100A	slurry/hydraulic	N/A	10-16		400	pipe + 40" 115T
	RVS250A	slurry/hydraulic	N/A	18-36		800	pipe + 48" 290T
	RVS300A	slurry/hydraulic	N/A	24-48		800	pipe + 72" 330T
	RVS400A	slurry/hydraulic	N/A	36-60		1,200	pipe + 96" 460T
	RVS800A	slurry/hydraulic	N/A	54-84		1,600	pipe + 144" 900T
	RVS1200A	slurry/hydraulic	N/A	60-122		varies	pipe + 180" 1,300T
	RVS800A	EPB/hydraulic	N/A	42-72		varies	varies 900T
	RVS100	rock/hydraulic	N/A	12-18		300	varies 115T
	RVS300	rock/hydraulic	N/A	20-30		450	varies 330T
	RVS400	rock/hydraulic	N/A	36-54		600	varies 440T
	RVS800	rock/hydraulic	N/A	48-72		varies	varies 900T

PIPE LIFTING/HANDLING

Company	Model	Capacity (lbs)	Pipe Diameter (in)	Dimensions (beam)	Weight (lbs)	Carrier Type
Vacuworx	RC10	22,000	6-84	8' 2" L; 3' 10" H (w/lug)	1,877	hydr. excavator, crane, pipe layer, wheel or track loader

PIPE RAMMING

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
Ditch Witch	P80	hydraulic	930*	1-3/4-12	500' direct	18" x 72-100"
					* operating weight w/P80 installed: 1,240 lbs.; operating weight w/P80 and 42, 4-ft. rods: 2,700 lbs.	

HammerHead	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
	4" RH SR	air	136	2-4	300	2 x 5
	5.125" SR	air	214	4-8	300	2 x 5
	5.75" SR	air	305	6-12	300	3 x 30
	7" AR	air	511	8-20	300	3 x 30
	8" AR	air	900	8-24	300	3 x 30
	12" AR	air	1,568	12-30	300	3 x 30
	16" AR	air	2,701	16-48	300	3 x 30
	20" AR	air	5,750	20-54	300	3 x 30
	24" AR	air	9,831	24-72+	300	3 x 40

RH-replaceable head; SR-screw reverse; AR-air reverse

Poweram	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
	2020	hydraulic	1,300	up to 12	300+	2' x 7' 3"
	1425	hydraulic	400	up to 4	100+	3' x 4' 4"
	1825	hydraulic	615	up to 6	150+	3' x 4' 2"
	1915	hydraulic	1,000	up to 12	200+	3' x 6"
	7000	hydraulic	3,400	up to 16	500+	3' 6" x 11"
	9000	hydraulic	1,500	up to 12	300+	3' x 7"

Pow-R Devices	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
	1000A	backhoe	320	1/2 - 8	150	7.5" x 10.5"
	PD4	hydraulic	320	1/2 - 6	300 direct	2' x 4'
	PD6	hydraulic	720	1/2 - 8	300 direct	2' x 5'
	PD7	hydraulic	1,040	1/2 - 10	300 direct	N/A
	PDS	hydraulic	1,920	1/2 - 14	300 direct	N/A

TT Technologies	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
	Mini-Atlas	air	132	4-10	200	3 x 20
	Titan	air	302	4-12	300	3 x 30
	Mini-Olympus	air	385	4-12	300	3 x 30
	Olympus	air	510	4-12	200	3 x 30
	Hercules	air	811	4-12	200	3 x 30
	Mini-Gigant	air	1,014	8-24	300	3 x 20
	Gigant	air	1,356	12-24	300	3 x 30
	Koloss	air	2,601	20-36	400	3 x 30
	Goliath	air	5,434	24-55	400	3 x 30
	Taurus	air	10,580	55-90	400	3 x 30
	Apollo	air	25,000	72-122	400	3 x 30
	HV220	air	945	4-16	300	3 x 30
	Reversible PCC270	air	1,540	12-24	300	3 x 30
	Reversible KV350	air	3,375	20-36	300	3 x 30

TERRA	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
	TR 190 mini	air	242	up to 16	300+	3 x 30
	TR 220	air				

SKID STEER LOADERS (MINI CRAWLERS/ALL SURFACE LOADERS)

Company	Model	HP	Operating Wt. (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin) (in)	Bucket Capacity (cu. ft.)	
ASV	PT-30	31.5	3,305	800*	80.25		
	RC-30 Turf	31.5	3,305	800*	80.25		
	PT-50	50	6,200	1,900*	115		
	RC-50 Turf	50	6,200	1,900*	115		
	PT-60	60	6,350	1,900*	115		
	RC-60 Turf	60	6,200	1,900*	115		
	PT-70	71	7,890	2,750*	125		
	PT-80	80.5	8,972	3,100*	125		
	RC-85	86	9,710	3,400*	125		
	RCV	86	10,500	4,000*	131		
	PT-100	99.5	10,150	3,800*	125		
	<i>*50% tipping load</i>						
	Bobcat	S70	23.5	2,845	700	94.5	5.5-7.9
S100		33.5	4,110	1,000	103.6	6.7-12.8	
S130		46	5,235	1,300	109.5	9.6-27	
S150		46	5,935	1,500	114.5	14-32.3	
S160		56	6,115	1,600	114.5	14-32.3	
S175		46	6,220	1,750	118.2	14-32.3	
S185		56	6,220	1,850	118.2	14-32.3	
S205		61	6,655	2,050	118.2	14-32.3	
S220		75	7,483	2,200	122.4	15.4-32.3	
S250		75	7,825	2,500	128.8	15.4-54.2	
S300		81	8,448	3,000	128.8	15.4-54.2	
S330		85	9,185	3,300	130.0	15.4-54.2	
A300		81	8,673	3,000	128.8	15.4-54.2	
Compact Track Loaders							
T140		46	6,660	1,400*	109.6	9.6-27	
T180		61	7,367	1,800*	114.5	14-32.3	
T190		61	7,612	1,900*	118.2	14-32.3	
T250		81	9,347	2,500*	122.4	14-32.3	
T300		81	9,702	3,000*	128.8	15.4-54.2	
T320	92	9,702	3,200*	128.8	15.4-54.2		
<i>*35% tipping load</i>							
Case	410	57	5,430	1,500	114.9	27.9	
	420	69	6,605	1,850	120.7	27.9	
	430	77	6,800	2,000	121.6	27.9	
	435	77	6,780	2,200	120.0	32.5	
	440	83	7,040	2,200	121.6	27.9	
	445	77	8,120	2,500	122.4	32.5	
	450	83	8,630	2,450	124.5	32.5	
	465	83	8,875	3,000	125.5	32.5	

Compact Track Loaders

420CT	69	8,340	2,000	120.8	27.9
440CT	83	8,925	2,100	121.7	27.9
445CT	77	10,200	2,310	122.4	33.2
450CT	83	10,925	2,700	124.8	33.2

Caterpillar	216B2	49	5,609	1,400	112	0.47*	
	226B2	57	5,822	1,500	112	0.47*	
	232B2	57	6,737	1,900	118.6	0.47*	
	236B2	70	7,007	1,950	122	0.52*	
	242B2	57	6,914	2,100	120	0.47*	
	252B2	70	7,861	2,500	126	0.52*	
	246C	73	7,381	2,150	122.9	0.43-0.59*	
	256C	82	7,566	2,350	122.9	0.43-0.59*	
	262C	82	7,968	2,700	127	0.43-0.62*	
	272C	90	8,292	3,250	129	0.43-0.62*	
	<i>*cubic yards</i>						

Multi Terrain Loaders

247B2	57	6,997	2,050	112	0.52	
257B2	57	7,952	2,500	119	0.52	
277C	82	9,389	3,212*	123	0.37-0.62	
287C	82	9,874	3,854*	127	0.48-0.62	
297C	90	10,229	4,233*	129	0.48-0.62	
<i>*50% tipping load</i>						

Ditch Witch	SK350	20	1,660	1,030	70.4	4.2
	SK500	24	2,270	1,450	81.1	4.2
	SK650	31.5	2,630	1,860	81	4.2

Gehl	AL-20DX	20	2,050	700	N/A	8
	3635	36	4,400	1,050/1,150	22	18.6
	3935	36	4,600	1,260/1,360	25	18.6
	4635	44/57	6,060	1,425/1,575	27.6	34
	4835	57	6,240	1,625/1,775	27.6	34
	5635	60/80	6,960	1,800/2,100	31.2	34
	6635	80	7,365	2,300/2,600	33.5	34
	7600	90	9,745	3,150	32.2	41
	7800	110	9,952	3,600	35.5	41

JCB	160 Robot	44	5,310	2,646	32	11.9
	170 Robot	47	5,532	3,086	30	12.3
	170 Robot HF	47	5,532	3,086	30	12.3
	190 Robot	70	7,717	3,748	37	17.6
	190T Robot	70	9,702	5,821	38	17.6
	1110 Robot	82	8,214	4,851	37	21.0
	1110T Robot	82	10,198	6,439	38	21.0

SKID STEER LOADERS cont. (MINI CRAWLERS/ALL SURFACE LOADERS)

Company	Model	HP	Operating Wt. (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin) (in)	Bucket Capacity (cu. ft.)
John Deere	317	57	6,300	1,750	114	14.48
	320	62	6,435	1,950	115.2	15.89
	325	70	8,390	2,500	125	17.66
	328	76	8,580	2,750	127	17.66
	332	85	9,160	3,175	127	17.66
Komatsu	SK714-5	47	5,565	1,350-1,550	112.2	0.49
	SK815-5	47	5,785	1,550-1,750	114.6	0.56
	SK818-5	47	6,470	1,750-1,950	118.0	N/A
	SK820-5	54	6,480	1,900-2,100	118.0	N/A
	SK1026-5	62.6/84	8,068	2,650-2,850	128.3	N/A
	SK1020-5	70/84	7,573	2,000-2,200	122.0	N/A
Mustang	2026	35	4,000	1,050	22.8	9.75
	2041	46	4,600	1,350	22.8	9.75
	2044	47	5,600	1,450	25.7	13
	2054	47	6,050	1,650	24	13
	2066	60	7,480	2,000	28	16.8
	2076	80	7,480	2,200	28	18.2
	2086	80	7,860	2,600	28	18.2
	2109	115	10,260	3,675	38.2	28
New Holland	LS120	14.4	2,050	600	28.6	
	LS125	15.5	2,185	700	28.6	
	LS140	30	4,395	1,282	25.3	
	LS150	36	4,500	1,282	25.3	
	LS160	40	5,534	1,750	30.6	
	LS170	50	5,540	1,765	30.6	
	LS180	60	7,193	2,555	34	
	LS180	60	7,223	2,555	34	
Takeuchi	TL 130	67	7,646	1,620*	119.3	14
	TL 140	81	9,769	2,083*	122.9	20
	TL 150	97	10,902	2,470*	126.1	24
						<i>*35% tipping load</i>
Terramite	T5C	20, gas	3,200	1,700	81	1/4 yd
	T7	26, diesel	4,125	1,700	96	1/3 yd
	T9ZWD	32.8, diesel	4,500	2,300	102	1/2 yd
Thomas Equipment	25G	25	1,750	475	16.8	6
	25GT	25	2,200	530	20.3	6
	85	19.8	2,983	850	14.5	8

105	33	3,700	1,000	27.5	9.9
135	43	4,800	1,300	25.8	28.7
153	50	5,520	1,500	28	28.7
175	59.5	7,000	1,750	29.5	31.5
225	90	8,000	2,200	25.3	34.3
245	90	8,000	2,400	25.3	34.
245X	90	8,000	2,400	25.3	34.3

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. (lbs)	
Vermeer	S400TX	23	1,950	500	22	4-6
	S600	30, gas	2,155	600	22	4-6
	S600	25, diesel	2,400	600	22	4-6
	S600TX	25	2,660	500	22	4-6
	S600TX	30, diesel	2,415	500	22	4-6

TRENCHING MACHINES, CHAIN

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. (lbs)	
Astec	60	13	36"	6	720	
	RT130	13	36"	6	903	
	RT160	24	48"	8	1,530	
	TF300B	18.5	45"	16	2,450	
	Maxi Sneaker Series D	37	36"	6	2,601	
	RT360	32	60"	12	3,906	
	RT460	37	60"	16	5,660	
	RT560	51	72"	16	7,000	
	RT660	67	72"	16	11,219	
	RT960	99	84"	18	16,000	
	T560	185	96"	24	26,000	
	Ditch Witch	1030	11	30"	6	780
		1230	13	36"	6	780
1330		13	36"	6	920	
HT25		25	3' 3"	4-16	4,080	
RT36		35	60"	16	3,940	
RT40		42.2	63"	12	4,200	
RT55		60	62"	12	5,610	
RT75		74	100"	24	6,920	
RT95		99	97"	24	7,980	
HT115		115	100"	24	12,000	
RT115		115	94"	24	14,750	
HT220	215	96"	24	42,990		
Great Lakes InterDrain	1824*	238	7'+	24+	37,000	
	2028*	276	8'+	24+	38,500	
	3035*	350	10'+	24+	50,000	
	1515**	160	4' 6"	20+	16,500	
	1622**	210	5' 2"	20+	26,400	
	1824**	276	8'+	24+	32,200	
	2028**	350	8'+	24+	37,000	
	3035**	425	10' to 17'	24 or 36	48,000	
	6050**	525	12' to 20'	24 or 36	60,000	
	7060**	675	25'	12	70,000	
	1520 Rock trencher**	200	4'	20	30,000	
	2028 Rock trencher**	276	5'	20	40,000	
					<i>*mechanical design **hydraulic design (available w/hydraulic offset digging option)</i>	
					<i>Note: Custom machines available.</i>	
	Mastenbrook	HRT25	340	98"	30	108,000
HRT55		600	98"	43	143,000	
HRT85		800	196"	79	198,000	
2014		220	54"	18	31,000	
1717		220	66"	21	46,000	
2018		300	117"	21	57,000	
3025		335	121"	31	92,000	
4030		450	136"	43	117,000	
5035		600	156"	43	128,000	
7045		760	175"	47	190,000	
					<i>*rock trenchers</i>	
1012D		130	54"	14	18,000	
1515		220	70"	16	32,000	
2015		260	78"	16	37,000	
3020		335	117"	21	43,000	
					<i>*drainage trenchers</i>	
3040		360	195"	11	62,000	
4050		485	234"	11	77,000	
5060	600	292"	11	86,000		
6080	675	312"	11	99,000		
				<i>*dewatering trenchers</i>		
Northland Trenching Equipment	1800	175	7' 6"	20	25,000	
	3000	290	10'	27	36,000	
	3000S	348	12'	27	38,000	
	3300	348	10' 6"	36	39,500	
	3600	348	19' 8"	13	44,000	
	527	350	15'	27	52,000	
Rivard Trenching Systems	RIV 302 TC 150	305	60	18	36,000	
	RIV 152 TC 120	152	48	12	20,000	
Tesmec USA	TRS 700	185	96"	24	29,000	
	TRS 900EXT	260	96	26	56,000	
	TRS 985	335	72"	24	75,000	
	TRS 1075	335	120"	36	75,000	
	TRS 1085	335	96"	28	85,000	
	TRS 1100	365	144"	36	95,000	
	TRS 1275	425	168"	48	147,000	
	TRS 1475	600	16'	54	185,000	
	TRS 1675	750	24'	60	250,000	

Trencor	T765	250	96"	30	55,000
	T1060	350	96"	36	75,000
	T1360	440	144"	42	138,000
	T1460	630	192"	48	185,000
	T1660	800	240"	60	250,000
	T1660M	800	300"	72	325,000
	T1860	1,600	420"	96	450,000
Vermeer	RT60	5.5	12	3	270
	RT100	13/15	36	6	1,060
	RT200	23	48	8	1,485
	RT350	37	48	12	2,990
	RT450	42	60	12	4,540
	RTX450	42	60	12	5,960
	RTX1250	120	72	18	11,210
	w/tires				
	RTX1250	120	72	18	15,790
	w/quad track system				
	RT650	76	60	16	6,600
	RT950	99	72	18	8,160
	RT1250	120	72	18	8,310
	T455	125	72	24	23,000
	T555 III	185	96	24	31,000
	T558 III	185	72	24	52,000
	T655 II	250	96	26	53,000
	T755 III	275	120	36	73,000
	T855 III	350	144	36	82,000
	T858 III	350	96	30	99,000
	T955 III	415	144	42	96,000
T1055 III	415	168	42	115,000	
T1155 III	540	192	42	170,000	
T1255 III	600	216	48	210,000	

TRENCHING MACHINES, ROCKSAW

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. (lbs)
Astec	T560	185	40"	10	26,000
Rivard Trenching Systems	RIV502 TR 250	540	70"	14	62,000
	RIV303 TR 130	300	50"	11	33,000
	RIV150 TR 100	170	40"	10	20,000
Tesmec USA	TRS 1075	335	48"	12	75,000
	TRS 1100	365	54"	14	95,000
	TRS 1275	525	60"	16	150,000
	1475 C-16	600	60"	16	185,000
Trencor	T1360RS	630	54"	14	95,000
Vermeer	RT950	99	40"	8	20,000
	RT1250	120	40"	12	15,420
	w/tires				
	RT1250	120	40"	12	20,000
	w/quad track system				
	T555 III	185	36"	6	32,000
T855RW III	335	54"	14	104,000	

TRENCHING MACHINES, WHEEL

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. Width (lbs)	
Ditch Witch	RT36	35	8"	16	3,940	
	RT40	42.2	18"	5	4,200	
	RT55	60	26"	8	5,610	
	RT75	74	30"	8	6,920	
	RT95	99	40"	8	7,980	
	RT115	115	40"	8	17,000	
Mid America Trenchers	9200 Magnum	350	7'	30	55,000	
	9200T	485	9'	42	85,000	
Rivard Trenching Systems	RIV500	506	5'10"	14	61,600	
	RIV300	291	4'2"	11	30,600	
	RIV150	150	3'4"	10	19,600	
Tesmec USA	900A Rocksaw	165	3'	10	38,000	
	900B	165	8' 6"	24	44,000	
	900A SL* Rocksaw	165	3'	10	40,000	
	900A SLO** Rocksaw	165	3' 4"	10	47,200	
	900B SL*	165	8' 6"	24	47,000	
	900B SLO**	165	6' 6"	18	47,000	
	1000A Rocksaw	300	4'	12	54,000	
	1000B	300	10' 6"	30	68,000	
	1200A Rocksaw	402	5' 6"	16	122,000	
	1200B	402	14' 6"	40	132,000	
	1300A Rocksaw	503	5' 6"	16	124,000	
	1300B	503	16' 6"	42	138,000	
	<i>*self-leveling; **self-leveling offset</i>					
	Trencor	T1360W	440	108"	66	135,000

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
Concept Engineering Group	AIR-VAC	air		50-200		300-900/12"	pickup truck/trailer
	SAFEX Utility	air	20	50	30/100	360/12"	utility vehicle/trailer
	SAFEX Pickup/Trailer	air	35	100-200	70/100	520/12"	pickup truck/trailer
	SAFEX Truck	air	75	300-800	160/100	930/12"	flatbed truck
Ditch Witch	FX30	water	28	500	N/A	500/15"	trailer
	FX30	water	28	800	N/A	500/15"	trailer
	FX60	water	56	300	N/A	900/16"	trailer
	FX60	water	56	800	N/A	900/16"	trailer
	FX60	water	56	1,200	N/A	900/16"	trailer
Economy Drilling Solutions	800T	water	20/13*	800**/300***	N/A	285cfm	trailer
	300S	water	20/13*	300**/125***	N/A	285cfm	skid
							<i>*vacuum/pump; **spoil tank; ***water tank</i>
GapVax	MC1510		300	1,500*/10 cu.yd**	5,000	16"	
	HV56		370	1,000*/3,000**	5,300	28"	
	VHE-1510		300	1,500*/2,000**	5,000	16"	
							<i>*water tank; **spoils tank</i>
Hi-Vac	XL500		35	500	540	15"	
	XL800		35	800	540	15"	
	X500		56	500	540-220	15"-27"	
	X800		56	800	540-220	15"-27"	
	CB10		50-400	1,000-3,000	1,000-5,000	15"-27"	
Keith Huber	Air Shovel		80	700	440	27"	
McLaughlin	V100G	water	24	100	N/A	575/10"	skid/truck/trailer
	V100D	water	25	100	N/A	575/15"	skid/truck/trailer
	V250	water	25	250	N/A	575/15"	skid/truck/trailer
	V500	both	36	500	150/90-110	575/15"	skid/truck/trailer
	V500LT	water	36	450	N/A	575/15"	skid/truck/trailer
	V500LTHD	water	49	500	N/A	1,025/15"	skid/truck/trailer
	V500HD	both	73	500	N/A	1,025/15"	skid/truck/trailer
	V750	water	24	750	N/A	575/15"	skid/truck/trailer
	V800	water	36	800	N/A	575/15"	skid/truck/trailer
	V800HD	water	73	800	N/A	1,025/15"	skid/truck/trailer
	V1200	water	36	1,200	N/A	575/15"	skid/truck/trailer
V1200HD	water	73	1,200	N/A	1,025/15"	skid/truck/trailer	
							<i>Note: Distributed through Vermeer dealers.</i>
Pacific Tek	PV-100		20	100	325	15"	skid
	PVW-150		25	150	525	15"	skid
	PVW-220		25	220	525	15"	skid
	PV-200		20	200	325	15"	skid
	PV-350		25	350	325	15"	skid
	PV-500		25	500	525	15"	skid
	PV-500DHO		37	500	825	15"	skid
	PV-800DHO		37	800	825	15"	skid
	PV-1200DHO		37	1,200	825	15"	skid
Ring-O-Matic	275 SJV		34 g/d	275*/100**	450	15"	
	550 SJV		34 g/d	550*/200**	450	15"	
	550 SJV		34 g/d	550*/200**	450	15"	
	PTHD 550 SJV		50 d	550*/200**	850	15"	
	HI CFM PTHD						

	750 SJV		34 g/d	750*/500**	450	15"	
	750 SJV		50 d	750*/500**	850	15"	
	HI CFM						
	750 SJV		50 d	750*/500**	850	15"	
	HI CFM PTHD						
	1300 SJV		34 g/d	1,300*/500**	450	15"	
	1300 SJV		50 d	1,300*/500**	850	15"	
	HI CFM						
	1300 SJV		50 d	1,300*/500**	850	15"	
	HI CFM PT						
	275 SJV		34 g/d	275*/100**	450	15"	skid
	550 SJV C		34 g/d	550*/200**	450	15"	skid
	750 SJV C		34 g/d	750*/500**	450	15"	
	750 SJV		50 d	750*/500**	850	15"	
	HI CFM C						
	750 SJV		50 d	750*/500**	850	15"	skid
	HI CFM PTHD C						
	1300 SJV C		34 g/d	1,300*/500**	450	15"	skid
	1300 SJV		50 d	1,300*/500**	850	15"	
	HI CFM C						
	1300 SJV		50 d	1,300*/500**	850	15"	skid
	HI CFM PT C						
	750 SV		25 g	750*	450	15"	skid
	750 SV PTHD		25 g	750*	450	15"	
	750 SV C		25 g	750*	450	15"	skid
	750 SV PTHD C		25 g	750*	450	15"	skid
	1300 SV		25 g	1,300*	450	15"	
	1300 SV PT		25 g	1,300*	450	15"	
	1300 SV C		25 g	1,300*	450	15"	skid
	1300 SV PT C		25 g	1,300*	450	15"	skid
							<i>SJV=Super Jet Vac; SV=Super Vac; PTHD=Pressurized tank & hydraulic full-opening rear door</i>
							<i>HI CFM= high cfm airflow; *spoils tank; ** water tank; g/d-gas/diesel powered</i>
Super Products	Camel Vac Trailer		44	1,000	1,150	15"	
	Little Sucker		200	1,000-3,200	900	27"	
	Mud Dog		410	2,000-3,200	3,800-5,500	28"	
	Camel Hydroex		300	2,000-3,200	3,600-3,800	16-28"	
Tornado Advanced Systems	F-1		315	850	2,450	27"	
	F-2		315	1,450	2,450	27"	
	F-3		425	2,626	3,658	27"	
	F-4		475	2,626	5,200	27"	
Trenchless Tech. Products	CV200		25	200	500/15"		skid, trailer
	WG500	water*	25	500	500/15"		trailer, truck
	WG1000	water*	25	1,000	500/15"		trailer, truck
	WD500	water*	37	500	880/15"		trailer, truck
	WD1000	water*	37	1,000	880/15"		trailer, truck
	WD1200	water*	37	1,200	880/15"		trailer, truck
	Dry Vac	water*	37	500	185/125	880/15"	trailer, truck
							<i>water optional*</i>
Utiliscope	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	100/150	780/15"	truck, trailer
	System 3000	both	100	300	165/185	1,000/15"	truck
	System 4000	both	155	450/800	300/220	1,000/15"	truck
	SpoilVac	water	25 or 35	200/1,200	N/A	476 or 800/15"	truck, trailer
VacStar	VS500GX*		25/9	500	360	22"	
	VS500DX**		28	500	360	22"	
	VS500GT*		25/9	500	360	22"	
	VS500DT**		28	500	360	22"	
	VS800GX*		25/9	800	360	22"	
	VS800DX**		28	800	360	22"	
	VS800GT*		25/9	800	360	22"	
	VS800DT**		28	800	360	22"	
							<i>*two gas-powered engines **diesel engine</i>
Vactor	HXX-Positive Displacement		430	1,300			5,300/28"
	HXX-Centrifugal Fan		380	1,300			
	HXX-Prodigy		310/330	600	180/150	3,200/16"	
Vac-Tron	PMD550GT		25	500	4,000	550	trailer/truck platform/component
	PMD550DT		36	500	4,000	550	trailer/truck platform/component
	PMD550SDT		49	500	4,000	1,000	trailer/truck platform/component
	PMD850GT		25	800	4,000	550	trailer/truck platform/component
	PMD850DT		36	800	4,000	550	trailer/truck platform/component

	PMD850SDT	49	800	4,000	1,000	trailer/truck/ platform/ component
	EV150GT	15	150	4,000	300	trailer/truck/ platform
	EV150SGT	25	150	4,000	550	trailer/truck/ platform
	EV150SDT	25	150	4,000	550	trailer/truck/ platform
	CS500GT	25	500	N/A	550	trailer/truck/ platform/ component
	CS500DT	25	800	N/A	550	trailer/truck/ platform/ component
	MC550DT*	36	500	4,000	550	trailer/truck/ platform/ component
	MC550SDT*	49	500	4,000	1,000	trailer/truck/ platform/ component
	MC850DT*	36	800	4,000	550	trailer/truck/ platform/ component
	MC850SDT*	49	800	4,000	1,000	trailer/truck/ platform/ component
	MC150SGT**	25	150	4,000	550	trailer/truck/ platform
	MC150SDT**	25	150	4,000	550	trailer/truck/ platform

*Vac/Jetter Combo; **Vac/Valve Exerciser

Vector Tech.	4002VGS	20 g	100/200	430	16"	skid
	5003VGS	25 g	200/350	650	16"	skid
	5003VDS	34 d	200/350	650	16"	skid
	5005VGS	25 g	225/500	650	16"	skid
	5005VDS	34 d	225/500	650	16"	skid
	5005VVG	25 g	225/500	650	16"	trailer
	5005VD	34 d	225/500	650	16"	trailer
	6008VGS	25 g	335/800	650	16"	skid
	6008VDS	38 d	335/800	650	16"	skid
	6008VVG	25 g	335/800	650	16"	trailer
	6008VD	38 d	335/800	650	16"	trailer
	7008VDS	60 d	335/800	990	16"	skid
	7008VD	60 d	335/800	990	16"	trailer
	8000VDS	75 d	335/1,000	1,410	23"	skid
	8000VD	75 d	335/1,000	1,410	23"	trailer
9000VDS	100 d	335/1,000	1,410	28"	skid	
9000VD	100 d	335/1,000	1,410	28"	trailer	

*g/d-gas/diesel

WHEEL LOADERS

Company	Model	HP	Operating Wt. (lbs)	Standard Bucket (cu. yds.)	Operating Load (lbs)	Tip Load (lbs)	Travel Speed (mph)
Case	21E	50	10,173	1.05	3,245	6,489	12.4/12.4
	121E	60	11,268	1.18	3,408	6,815	21.7/21.7
	221E	69	12,268	1.31	4,028	8,056	21.7/21.7
	321E	77	12,997	1.44	4,140	8,281	21.7/21.7
	521E	135	23,069	2.60	8,116	16,232	22.3/14.1
	521E XT	135	26,249	2.60	6,648	13,297	22.3/14.1
	521E XR	135	23,442	2.60	6,862	13,723	22.3/14.1
	621E	162	27,406	3.00	10,190	20,379	24.0/4.5
	621E XT	162	28,709	3.00	8,553	17,105	24.0/4.5
	621E XR	162	27,604	3.00	8,309	16,617	24.0/4.5
	721E	183	30,644	3.50	12,067	24,135	23.6/16.0
	721E XT	183	31,827	3.50	11,565	23,131	23.6/16.0
	821E	213	37,844	4.43	13,932	27,348	23.0/15.7
	921E	297	50,622	5.78	18,571	36,612	23.2/16.1
	1221E	320	65,600	7.60	24,339	48,678	21.1/14.7

*tip load (full turn); travel speed is forward/reverse

Caterpillar	904B	52	9,810	0.78		5,511	12
	906H	70	12,412	1.2		6,393	21.7
	908H	80	14,253	1.4		7,264	21.7
	914G	96	17,530	1.7		11,737	22
	IT14G	96	18,632	1.7		10,566	22
	924H	129	25,644	2.4		16,041	24.7
	924Hz	129	24,180	2.3		16,844	24.7
	928Hz	149	27,699	2.6		19,089	23.4
	930H	149	28,725	2.6		18,321	24.7
	938H	180	34,125	3.5		22,418	24.1
	IT38H	180	36,016	3.5		21,269	24.1
	950H	196	40,435	4.0		24,068	23.0
	962H	211	42,700	4.5		26,676	23.6
	IT62H	211	42,770	4.25		25,865	23.6
	966H	262	52,254	5.5		34,120	23.2
	972H	287	55,451	6		37,271	22.9
	980H	318	67,294	7		42,989	22.6
	988H	475	109,249	9	25,000	64,745	22.3
	990H	627	171,642	11	33,000	84,311	13.0
	992K	801	214,948	14	42,900	113,159	12.8
993K	950	294,800	17	50,000	158,026	13.6	
994F	1,463	430,858	25	76,000	250,188	14.0	

JCB	407ZX	63	9,923				
	409ZX	75	11,249				
	411HT	85	18,145				
	416HT	113	20,967				
	416HT	113	20,967				
	Super High Lift 426HT	142	29,040				

	436HT	150	32,417				
	436HT	150	32,417				
	Super High Lift						
	456HT	197	44,243				
	426ZX	142	28,860				
	436ZX	150	32,426				
	446ZX	176	38,486				
	456ZX	197	41,174				
	John Deere	244J	59	11,552	1.0	7,718	19.0
		304J	73	13,404	1.4	9,315	19.0
344J		98	16,976	2.0	12,522	19.0	
444J*		128	24,561	2.5	18,263	23.4	
444J**		129	24,809	2.5	15,483	23.4	
444J***		129	26,651	2.5	15,032	23.4	
544J*		167	35,360	5.0	20,674	14.2	
544J****		167	28,332	3.0	22,688	23.8	
544J*		167	28,534	3.0	19,643	23.8	
544J**		167	30,459	3.0	18,320	23.8	
544J***		198	40,264	6.0	23,688	14.7	
624J****		198	32,290	3.5	27,070	24.6	
624J*		198	33,587	3.5	22,392	24.6	
624J**		198	35,927	3.5	20,944	24.6	
624J***		232	49,051	7.0	29,861	14.7	
644J****		232	40,150	4.25	30,520	22.0	
644J*		232	40,620	4.25	24,485	22.0	
644J**		250	51,057	7.0	35,789	14.7	
724J*		250	40,704	4.75	27,763	22.0	
724J**		250	40,671	4.25	22,974	22.0	
744J****	288	66,086	8.0	40,464	13.1		
744J*	288	51,467	5.25	32,839	24.5		
744J**	288	51,985	4.5	26,127	24.5		
824J*	316	57,374	6.0	35,708	24.5		
824J**	316	57,304	5.25	30,460	24.5		
844J*	380	68,320	7.25	45,860	23.4		

*Z-bar; **High lift; ***Powerlet; ****Waste handler

Komatsu	WA30-5	29	6,040	0.52		9.3
	WA50-3	37	8,200	0.73		9.3
	WA65-5	54	10,274	0.7-1.0		
	WA70-5	60	11,155	1.1-1.6		
	WA80-5	60	12,434	1.1-1.6		
	WA95-3	74	12,830	1.4-1.63		
	WA150-5	96	17,450	1.7-2.2		
	WA200PT-5	120	23,404	2.5-2.75		
	WA200-5	120	22,872	2.2-3.1		
	WA250-5	134	25,045	2.5-3.5		
	WA250PT-5	134	27,459	2.5-3.0		
	WA320-5	166	31,337	3.0-4.2		
	WA320PT-5	166	33,968	3.25-3.5		
	WA380-5	187	40,170	3.8-5.2		
	WA400-5	200	41,370	4.1-5.6		
	WA450-5	261	52,404	4.7-6.8		
	WA480-5	271	54,179	5-8		
	WA500-3	315	67,120	5.6-7.2		
	WA600-3	450	108,908	7.3-9.8		
	WA600-6	502	118,385	8.4		
WA700-3	641	156,570	11.4-12.3			
WA700-6	672	161,150	10.5-12.3			
WA800-3	808	222,955	14.4-16			
WA900-3	853	226,810	15-17			
WA1200-3	1,560	452,390	23.5-45.8			

Kubota	R420S	43	7,450	0.5	1,925	3,850	12.5
	R520S	49	8,980	0.75	2,205	4,410	12.5

Liebherr	L 524	110	22,270				
	L 538	136	27,300				
	L 544	165	33,100				
	L 566	259	50,250				
	L 580	261	54,200				

Link-Belt	L120	110	20,507				
	L125	135	24,912				
	L130	173	30,305				

Mustang	ML28	35	4,000	0.85	2,590	5,181	12.4
	ML48	46	4,600	1.11	3,748	7,496	12.4
	ML48T	47	5,600	1.11	3,373	6,746	12.4
	ML68	47	6,050	1.37	4,365	8,730	12.4

Takeuchi	TW50	51	8,708	1.05	2,789	6,790	12.4
	TW60	61	10,251	1.05	3,529	7,992	12.4
	TW65	59	10,362	1.05	3,572	8,073	12.4
	TW80	73	12,677	1.3	4,147	9,420	12.4

Terex	TL60		8,598	0.65-1.30	2,728	6,063	11
	TL65		8,600-9,040	0.65-1.30	2,894	6,560	13
	TL80		10,585-11,240	1.0-1.60	3,782	8,577	13
	TL100		13,230	1.1-2.0	4,653	10,540	12.4
	TL120		15,656	1.1-2.4	5,138	11,642	12.4
	TL160		20,283	2.0-4.0	7,001	15,986	12.4
	TL210		27,558	2.62-4.58	8,699	19,613	12.4
	TL260		32,855	3.3-6.0	10,584	24,255	10
	TXL 200-2		25,673	2.5		19,555	21.7
	TXL 250-2		30,865	3.25		26,896	21.1
	TXL 300-2		38,140	3.9		31,967	21.4
	TXL 400-2		49,604	5.1		41,667	23.6
	TXL 500-2		67,681	6.3		50,706	21.7

Yanmar	V3-6	30.3	6,801	0.52	1,962	4,785	11.8
	V4-6	40.4	8,058	0.65	2,579	5,976	11.8

operating weight w/canopy

WALKOVER & UTILITY LOCATORS

Company	Model	Type	Operating Voltage	Battery Life (hrs)	Audio Output Frequency (kHz)	Weight (lbs)	Operating Temp.	Overall Length (in)
Ditch Witch	752 Tracker	receiver	6 C-cell	20	29, 12	5.5	-4°F to 122°F	31.5
	752 Display	receives/displays data	6 C-cell	60	N/A	2.2	-4°F to 122°F	5.5
	86B	beacon	2 C-cell	40	29	2.75	-4°F to 122°F	17.8
	86BH	beacon	2 C-cell	16	29	2.75	-4°F to 122°F	17.8
	86BHL	beacon	4 D-cell	60	29	6.1	-4°F to 122°F	26.5
	86BG	grade beacon	3.6V lithium C-pack	70	29	2.2	-4°F to 176°F	17.8
	88B	beacon	1 AA-alkaline	18	29	6.6 oz	-4°F to 176°F	11.5
	88BAT	beacon	1 AA-alkaline	22	29	6.6 oz	-4°F to 176°F	11.5
	Digital Control Inc.	Mark III	receiver	14.5-16.5V	12, Nicad recharge	N/A	8.5	-4°F to 140°F
Mark III		remote display	12.5-16.5V	12, Nicad recharge	N/A	4.1	-4°F to 140°F	10.0
Mark V		receiver	14.5-16.5V	12, Nicad recharge	N/A	8.7	-4°F to 140°F	13.5
Mark V		remote display	12.5-16.5V	12, Nicad recharge	N/A	4.1	-4°F to 140°F	10.0
LT		receiver	14.5-16.5V	12	N/A	5.6	-4°F to 140°F	13.5
LT		remote display	12.5-16.5V	12	N/A	4.1	-4°F to 140°F	10
LT		transmitter	1 AA-alkaline	20	N/A	0.5	-4°F to 180°F	8
Eclipse		receiver	14.5-16.5V	6	N/A	8.3	-4°F to 140°F	14.5
Eclipse		remote display	12.5-16.5V	12, Nicad recharge	N/A	6.2	-4°F to 140°F	11.5
DFT		transmitter	3V	20	N/A	1.4	-4°F to 220°F	15
DX		transmitter	3V	20	N/A	1.4	-4°F to 220°F	15
DS		transmitter	1 AA-alkaline	12	N/A	0.5	-4°F to 180°F	8
DT		transmitter	3V	30	N/A	1.4	-4°F to 220°F	15
D4X		transmitter	6V	40	N/A	1.4	-4°F to 220°F	19
DXP		transmitter	3V	20	N/A	1.4	-4°F to 220°F	15
D4XP		transmitter	6V	40	N/A	1.85	-4°F to 220°F	19
DC (Cable)		transmitter	12-30V	N/A	1.2		-4°F to 180°F	15
DCP (Cable)		transmitter	12-30V	N/A	1.2		-4°F to 180°F	15
EDF		transmitter	3V	10	N/A	1.4	-4°F to 220°F	15
ETP		transmitter	3V	20	N/A	1.4	-4°F to 220°F	15
ECP (Cable)		transmitter	12-30V	N/A	1.85		-4°F to 180°F	19
Spot D Tek IV		receiver		20+	N/A	9.4	-6°F to 114°F	31
Spot D Tek Molemap		remote display	12V		N/A	8.5	-4°F to 140°F	12.4
CDT		transmitter	3V	20+	N/A	1.81	220°F max.	14.96 x 1.25
CDX		transmitter	3V	12+	N/A	1.81	220°F max.	14.96 x 1.25
CLF		transmitter	3V	12+	N/A	1.81	220°F max.	15
Spot Lite Receiver		receiver	6 C-cell	20+	N/A	8.9	-6°F to 114°F	15
Spot Lite Monitor		receiver	4 C-cell	20	N/A	8.2	-6°F to 114°F	15
Ditch Witch	2150GR	ground penetrating radar	12V sealed lead acid, 12 Ah	>10	100	19.8	14°F to 104°F	26.7
	910R	receiver	6 C-cell alkaline	50	1-200	4.5	-4°F to 122°F	12.8
	970T	transmitter	8 D-cell alkaline	80	1-200	7.25	-4°F to 122°F	14
	AF2	fault finder	1 alkaline 9VDC	N/A	N/A	N/A	N/A	N/A
	FT14	fault finder	6 D-cell alkaline/external 12VDC	N/A	N/A	N/A	N/A	N/A
	300SR	receiver	6 C-cell alkaline	40	8-29	5	-4°F to 122°F	11.5
	300ST	transmitter	6 D-cell alkaline	150	8, 29	5	-4°F to 122°F	12.25
	950R	receiver	6 C-cell alkaline	50	8-200	4.5	-4°F to 122°F	12.8
	950T	transmitter	8 D-cell alkaline	40	1-80	7.25	-4°F to 122°F	14
	Goldak	5600-SI	pipe/cable	8 1.5V AA	30	116+/- .03°	3	20°F to 150°F
McLaughlin	Verifier G2	utility	12V	20	9.5, 38, 80	4.7	-4°F to 122°F	26.8
	Verifier Vision FLX	utility/fault finder	12V	25	9.5, 38, 80	4.7	14°F to 113°F	26.8
Radiodetection	DrillTrack G2	receiver	6 C-alkaline	12	8, 33	8.8	-4°F to 220°F	39.3
	RD385	receiver	12 AA-alkaline	30	8, 33	5	-4°F to 220°F	25
	SDS: Short range datasonde	transmitter	1 AA-alkaline	10	33	.6	-4°F to 220°F	8
	MDS: Medium range datasonde	transmitter	2 C-alkaline	20	8	1.8	-4°F to 220°F	15
	LDS: Long range datasonde	transmitter	2 C-alkaline	12	8	1.8	-4°F to 220°F	15
	MDF: Medium range dual frequency datasonde	transmitter	2 C-alkaline	20	8, 33	1.8	-4°F to 220°F	15
	LDF: Long range dual frequency datasonde	transmitter	2 C-alkaline	12	8, 33	1.8	-4°F to 220°F	15
	G2M: Medium range dual frequency datasonde	transmitter	2 C-alkaline	20	8, 33	1.8	-4°F to 220°F	15
	G2L: Long range dual frequency datasonde	transmitter	2 C-alkaline	12	8, 33	1.8	-4°F to 220°F	15
RIDGID	SeekTech SR-60	receiver	4 C-cell	12-24	10Hz-49kHz	5.4	-4°F to 122°F	31
	SeekTech SR-20	receiver	4 C-cell	12-24	128Hz, 1, 8, 33	4	-4°F to 122°F	31.1
	ST-33Q	transmitter	6 D-cell	varies	8, 33	12.2	-5°F to 125°F	16.06
	ST-305	transmitter	6 alkaline/C-cell	varies	1, 8, 33, 262	2.5	-5°F to 125°F	7.75
	ST-510	transmitter	8 D-cell	varies-12.5	128Hz, 1, 8, 33	8.9	-5°F to 125°F	15
Schonstedt	TraceMaster II	pipe/cable	8 AA-alkaline	60	0.575, 8, 82, 455	3.9	-4°F to 140°F	29.5
	XTpc-82	pipe/cable	1 9V	12	82	2.8	-4°F to 140°F	27.7
	XTpc-33	pipe/cable	1 9V	12	33	2.8	-4°F to 140°F	27.7
	Mac-51Bx	pipe/cable, mag sonde/camera	2 9V	60	0.575, 82	2.7	-13°F to 140°F	42.3
	XT512	sonde/camera	1 9V	12	0.512	2.7	-4°F to 140°F	27.7
	Ga-92XT	magnetic	1 9V	24	N/A	2.4	-13°F to 140°F	26
	Ga-72Cd	magnetic	2 9V	60	N/A	2.5	-13°F to 140°F	34.5
	Ga-52Cx	magnetic	2 9V	40	N/A	2.5	-13°F to 140°F	42.3