

EQUIPMENT SELECTION GUIDE

Compiled by Traci Read ■ Senior Editor

AUGER BORING

Company	Model	Type Drive	Weight (lbs)	Boring Diam. (in)	Max. Bore	Size Pit (ft)	Total Thrust (lbs)	
American Augers	24-100	mechanical	2,300*	4-24	varies	9 x 32	100,000	
	24-150	mechanical	5,400*	4-24	varies	10 x 32	150,000	
	30-225	mechanical	6,800*	4-30	varies	11 x 32	225,000	
	36-340	mechanical	8,000*	12-36	varies	11 x 32	340,000	
	36-600	mechanical	10,600*	12-36	varies	12 x 35	600,000	
	42-600	mechanical	11,000*	12-42	varies	12 x 35	600,000	
	48-900	mechanical	15,300*	12-48	varies	12-1/2 x 35	900,000	
	60-1200	mechanical	20,800*	12-60	varies	14 x 37	1,200,000	
	72-1200	mechanical		24-72	varies		1,200,000	
*machine splits for lighter lifts; master track not included								
Barbco	H-24	hydraulic	1,800*	4-24	varies	5 x 17	100,000	
	24-100	mechanical	2,850*	4-24	varies	5 x 32	113,000	
	24/30-150	mechanical	4,900**	4-30	varies	8 x 34	176,715	
	30/36-200	mechanical	5,573**	4-36	varies	8 x 34	226,000	
	36/48-350	mechanical	9,520**	12-48	varies	12 x 34	402,128	
	36/48-500	mechanical	10,270**	12-48	varies	12 x 34	580,000	
	36/48-900	mechanical	10,770**	12-48	varies	13 x 34	900,000	
	48/60-750	mechanical	14,010**	12-60	varies	13 x 34	874,628	
	48/60-1200	mechanical	14,760**	12-60	varies	14 x 35	1,200,000	
	60/72-1MHD	mechanical	21,400**	12-72	varies	14 x 35	1,166,171	
	60/75-1500	mechanical	22,500**	12-72	varies	14 x 35	1,500,000	
	72/84-1800	mechanical	24,000**	12-84	varies	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	varies	3 x 9	30,000	
	20D*	mechanical	2,200	4-20	varies	4 x 28	51,500	
	24**	mechanical	4,200	8-24	varies	6 x 31	100,000	
	30**	mechanical	6,500	12-30	varies	7 x 31	200,000	
	36**	mechanical	7,800	12-36	varies	8 x 31	300,000	
	42**	mechanical	14,000	12-42	varies	10 x 35	500,000	
	48**	mechanical	19,000	24-48	varies	10 x 35	753,000	
	54**	mechanical	23,000	24-54	varies	10 x 35	1,000,000	
	60**	mechanical	23,800	24-60	varies	10 x 35	1,200,000	
*includes master track; **machine splits for lighter lifts; master track not included								
CRC-Evans	RB6-30	rollerchain	6,400	6-30	300	6 x 30	120,000	
	RB16-42	rollerchain	10,250	16-42	300	7 x 32	160,000	
	RB30-48	rollerchain	13,250	30-48	300	7 x 32	180,000	
	RB42-60	rollerchain	23,250	42-56	300	7 x 32	240,000	
	RB48-72	rollerchain	29,000	48-72	300	9 x 32	400,000	
McLaughlin	M-5000	hyd., chain red.	280	1 1/4-4	varies	78"	1,000	
	McL-12H	hyd., gear red.	480	4-12	varies	7	24,500	
	McL20B	gas, gear red.	1,596	4-20	varies	32	42,000	
	McL-24B	diesel, gear red.	3,325	4-24	varies	32	115,000	
	McL-30/36B	diesel, gear red.	5,960	10-36	varies	32	230,000	
	McL-36/42C	diesel, gear red.	7,400	12-42	varies	34	400,000	
	McL-42HD	diesel, gear red.	17,250	12-42	varies	34	634,000	
	McL-48/54	diesel, gear red.	28,175	12-60	varies	34	950,000	
The Robbins Co.	ABM 36-630	mechanical	10,150*	12-36	varies	12 x 35	630,000	
	ABM 42-630	mechanical	10,700*	12-42	varies	12 x 35	630,000	
	ABM 48-950	mechanical	14,500*	12-48	varies	12 x 35	950,000	
	AMB 60-1270	mechanical	21,000*	24-60	varies	14 x 36	1,270,000	
	ABM 72-1270	mechanical	22,850*	24-72	varies	14 x 36	1,270,000	
*machine splits for lighter lifts; master track not included								

BACKHOE-LOADERS

Company	Model	Operating Weight (lbs)	Max. Reach (height to pin)	Backhoe Dig Depth	HP
Bobcat Co.	B100	5,752	92"	110.8"	31.5
	B250	6,770	101.3"	126.7"	31.5
	B300	8,840	113.1"	132.6"	46
Case	580M	16,510	25' 9"	*14' 3"	73
	580M Turbo	16,510	25' 9"	*14' 3"	80
	580 Super M	18,031	27' 7"	*14' 5"	90
	580 Super M Wide	18,031	27' 7"	*14' 5"	90
	590 Super M	20,236	25' 2"	**15' 11"	99
* standard/18' 3" extendahoe; ** standard/19' 11" extendahoe					

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
	446D	19,666	11' 5"	21' 2"	110
Ingersoll Rand	BL-570	9,954	10' 5"	12'	56
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	310G	12,800	30.9"	14' 3"	74
	310SG	13,500	36"	14' 6"	84
	315SG	14,700	30.1"	14' 1"	84
	410G	15,000	35.5"	15' 8"	92
	710G	23,000	30.3"	17' 10"	118
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	19,731	19' 0"	18' 1"	98
				all wheel steer	
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
	575E Turbo	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	
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
Vermeer	LM42	3,550	109"	82.5"	43.5
	RT450	3,350	117"	77"	50
	V4150A	4,200	107"	64"	45.3
	V5800	6,400	140"	97.6"	60
	V6500	6,400	140"	97.6"	67
	V8100	6,380	158"	108"	80
	V8550A	7,058	158"	108"	90
	V120	7,158	158"	108"	116
RT700/850	6,760	160"	101"	70/85	
Yanmar	CBL40	7,750	13' 2"	10'	37.2

CABLE LAYERS

Company	Model	HP	Operating Wt. (lbs)	Max. Installation Depth (in)	Max. Reel Capacity (lbs)
Case	Maxi Sneaker				
	Series C	33.5	2,346	24	200
	360	30	3,906	24	N/A
	460	33.5	5,660	24	300
	560	46	7,000	30	1,000
	660	55	10,304	36	1,500
	860	77	12,700	42	2,500
Ditch Witch	100SX	10	600	12	100
	255SX	24	1,650	12	100
	410SX	35	3,300	24	200

RT36	35	3,940	60	N/A
RT40	42.2	4,200	63	200
RT55	60	5,610	62	1,500
RT75	74	6,920	100	2,000
RT95	99	7,980	97	2,500
RT115	115	13,500	36	2,500
RT185	185	33,500	48	6,000
HT185	185	38,000	48	6,000

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*	18	150	
	LM42	45	3,550*	24	150	
	V4150A	45.3	4,200*	24	1,500	
	V5800	60	9,000*	N/A	2,000	
	RT700/850	70/85	12,325*	30	2,000	
	V8550A	90	7,058*	36	3,000	
	V120	116	7,158*	36	3,000	
	*tractor weight					

CABLE PLOWS

Company	Model	HP	Max. Depth (in)	Plow Offset Range (in)	Approximate Weight (lbs)
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-I	150-200	60	66	8,700
	HS-II	210-300	66	65	11,200
HS-III	320-425	72	72	14,750	
Vermeer	Flextrak75	79	36	44	14,500
	P185	185	60	47	34,000

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	70	14,317-14,960	1.65-1.9
	650H	74.8	16,091-17,440	2.0-2.52
	750H	81	17,284-18,975	2.2-2.6
	850H	91	17,519-19,209	2.2-2.6
	1150H	119	25,300-27,060	3.4-3.9
	1650K	136	28,800-31,600	4.12-4.16
	1850K	172	43,762-48,590	5.1-7.35
Caterpillar	D3G XL	70	16,227	1.88
	D4G XL	80	17,317	2.5
	D5G XL	90	19,662	2.86
	D5N XL	121	28,258	3.4
	D6N XL	150	34,167	5.57
	D6R Series II	185	40,400	7.34
	D6R XL Series III	200	44,270	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	45
	D11T CD	850	248,600	57
John Deere	450J LT	70	16,283	2.3
	450J LGP	74	17,525	2.3
	550J LT	80	17,016	2.3
	550J LGP	84	18,252	2.3
	650J LT	90	18,560	2.4
	650J XLT	90	18,600	2.29
	650J LGP	99	19,750	2.52
700J LGP	115	27,900	3.75	
700J LT	115	25,800	3.44	
700J XLT	115	26,790	3.44	

CRAWLER DOZERS

Company	Model	HP	Operating Wt. (lbs)	Blade Capacity (cu. yds.)
John Deere	750J LT	145	34,320	4.23
	750J WT	145	36,350	4.23
	750J LGP	155	36,650	4.84
	850J	185	39,790	7.29
	850J LT	185	42,640	5.15
	850J WT	185	40,910	7.62
	850J XLT	185	43,850	5.57
	850J LGP	200	45,000	5.57
	950C	230	50,600	9.42
	1050C	324	75,525	12.5

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

RAYCO	C87D	87	9,300	2.0
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CRAWLER TRACTOR SIDEBOMS

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
	589	420	151,212	230,000

Midwestern Mfg.	M510*-JD450, CAT D3C/G	75	19,300	10,000
	M515*-JD550, CAT D4C/G	80	21,300	15,000
	M520*-JD650, CAT D5C/G	90	25,000	20,000
	M540*-JD700, CAT D5H/M	110	36,300	40,000
	M562*-JD750, CAT D6D/E	140	41,500	48,000
	M571XL-CAT D7E/F/G	200	61,500	80,000
	M572-CAT D7C LGP	200	61,500	90,000
	M583-CAT D8H/K	300	89,500	140,000
	M583CH-CAT D8N/R	305	102,500	140,000
	M594**-CAT D9G/H	410	125,000	200,000
	M10R*-JD310/410, CAT 416/426	76	13,500	10,000
	M16R*-JD544/644, CAT 936	120	23,000	16,000
	M33R*-CAT 966, KOM 500	220	46,000	33,000

*Also available for Case/Ford New Holland/JCB/

Komatsu tractors.

**Available 2006

561 Conv.- CAT 561B/C/D MD 6 (9u)
mechanical to hydraulic conversion kit
571 Conv.- CAT 571E/F/G MD 7 (17A)
mechanical to hydraulic conversion kit
572 Conv.- CAT 572E/F/G
mechanical to hydraulic conversion kit
583 Conv.- CAT 583H/K
mechanical to hydraulic conversion kit
594 Conv.-** CAT 594G/H
mechanical to hydraulic conversion kit

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
*weights are without pipe						
Barbco	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*
*continuous duty rating						
Ditch Witch	JT520	hydraulic	2,980	2.5	500	5,000
	JT921	hydraulic	6,670	3-4	1,100	9,000
	JT9218	hydraulic	6,100	3-4	1,100	9,000
	JT1220	hydraulic	9,700	3-4	1,400	12,000
	JT2020	hydraulic	10,800	4-5	2,200	20,000
	JT2720MI	hydraulic	20,500	3.5-5	3,200	27,000
	JT4020MI	hydraulic	27,500	4-6	5,000	40,000
	JT2720AT	hydraulic	19,850	3.5-5	2,700	27,000
	JT4020AT	hydraulic	22,380	4-6	5,000	40,000
*Operating weight may vary depending on selected options.						
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
Robbins HDD	3010TMSC	rack & pinion	14,000	4-20	3,500	32,800
	4515TMSC	rack & pinion	18,000	4-28	5,400	48,000
TM - track mounted • SC - self contained						
StraightLine	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-JET MJ 1600	hydraulic chain	770	10	1,035	17,600
	TERRA MINI-JET/LV 1400	hydraulic chain	770	10	1,035	17,600

TERRAJET2608 E hydraulic chain 2,420 16.5 1,920 17,600

TT Tech.	Grundodrill 4X	rack & pinion	4,100	2-6	950	9,800
	Grundopit 40/60	hydraulic	440	1-4	442	8,800
	Grundodrill 15X	hydraulic	15,400	3-14	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	1,100	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
	D18x22	rack & pinion	11,160	min. 3.5	2,200	18,000
	D20x22	rack & pinion	11,160	min. 3.5	2,200	20,000
	D24x40 Series II	rack & pinion	18,440	min. 3.5	4,000	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
*weights are without pipe						
Barbco	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*
*continuous duty rating						
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	5-8	10,000	80,000
*Operating weight may vary depending on selected options.						
Laney	LDD70	hydraulic cylinder	12,500	up to 12	8,000	70,000

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)
Robbins HDD	4510TMSC	rack & pinion	18,000	4-28	2,250/5,400	56,000
	6015TMSC	rack & pinion	22,000	5-30	6,250/12,500	65,000
	9015TMSC	rack & pinion	32,000	5-36	11,000/22,000	95,000
	9020TMSC	rack & pinion	36,500	5-36	11,000/22,000	95,000
	9030TMSC	rack & pinion	47,500	5-36	11,000/22,000	95,000
	9030TLMSC	rack & pinion	46,000	5-36	11,000/22,000	95,000
TM - track mounted • TLM - trailer mounted • SC - self contained						
TERRA AG	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
Barbco	BD110-20SC	rack & pinion	43,000	17,500*	110,000*
	BD120-20SC	rack & pinion	48,000	25,000*	120,000*
*continuous duty rating					
Horizontal Rig & Equipment	HRE-180	rack & pinion	45,000	29,000	180,000
	HRE-260	rack & pinion	N/A	36,000	260,000
	HRE-360	rack & pinion	60,000	50,000	360,000
	HRE-460	rack & pinion	64,000	50,000	460,000
	HRE-720	rack & pinion	75,000	92,000	720,000
	HRE-920	rack & pinion	80,000	92,000	920,000
	HRE-500 TON	rack & pinion	N/A	92,000	1,140,000
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
Robbins HDD	18030TMSC	rack & pinion	84,000	20,000/40,000	180,000
	18030TLMSC	rack & pinion	82,600	20,000/40,000	180,000
	30030TMSC	rack & pinion	92,000	26,000/52,000	300,000
	30030TLMSC	rack & pinion	90,000	26,000/52,000	300,000
	36030TLMSC	rack & pinion	97,000	48,000	360,300
	55030TLMSC	rack & pinion	98,000	48,000	500,000
	75030TLMSC	rack & pinion	108,000	37,000/75,000	750,000
TM - track mounted • TLM - trailer mounted • SC - self contained					
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
	D300x500	rack & pinion	89,780	50,000	300,000

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	316	1,676	9.9	1.0	5' 1"	9' 1"	2' 1"
	323	3,655	13.3	0.5-3.1	7' 6"	12' 10"	3' 3"
	325	6,145	27.7	1.3-4.6	8' 4"	13' 1"	4' 7"
	328	6,477	27.7	1.5-5.5	9' 4"	14' 9"	4' 7"
	331	7,215	40	1.5-5.5	10' 3"	16'	5' 0"
	331E*	7,758	40	1.5-5.5	12' 9"	18' 3"	5' 0"
	334	7,568	40	1.5-5.5	11' 2"	16' 11"	5' 0"
	430ZHS	8,024	42.8	1.5-5.5	10'	16' 9"	6' 2"

435ZHS	10,555	49	1.5-5.5	11' 2"	18' 3"	6' 2"
337	11,085	48	2.1-8.2	11' 9"	18' 9"	5' 9"
341	11,660	48	2.1-8.2	13' 1"	20' 1"	6' 4"
442	16,538	73	4.8-9.9	13' 11"	23' 10"	7' 7"

*extended reach

Case	CX75	16,896	0.52	0.45	14' 11"	22' 3"
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"
	305C CR	11,465	47	0.212	12' 9"	15' 9"
	307C	15,900	54	0.45	15' 3"	21' 10"
	307C SB	18,500	54	0.45	15' 5"	18' 3"
	308C CR	17,730	55	0.44	14' 4"	22' 2"
Daewoo	Solar 55	11,464	54	0.23	12' 8"	20' 0"
	Solar 70-III	14,991	56	0.44	13' 5"	20' 8"
Ditch Witch	MX9	1,960	8.4	0.08*	5' 7"	9' 4"
	MX182	4,090	15	1.55*	7' 11"	14' 0"
	MX202	5,060	20.8	2.33*	9' 0"	15' 7"
	MX272	6,129	25.5	2.83*	10' 4"	16' 8"
	MX352	8,245	29.1	3.89*	12' 5"	18' 10"
	MX502	11,110	39.4	5.65*	15' 0"	21' 7"
*cubic feet						
Hitachi	EX17	3,810	12.3	0.058	7'	12' 9.5"
	Zaxis 27U-2	6,393	26.4	0.05-0.16	8' 7"	15' 4"
Const. Machinery	Zaxis 35U-2	7,672	29.9	0.065-0.22	10'	17' 2"
	Zaxis 50U-2	10,428	39.9	0.078-0.31	15' 4"	19' 8"
	Zaxis 75U5	17,714	54	0.27-0.75	13' 6"	21' 1"
	Zaxis 80	15,905	52	0.19-0.75	13' 8"	20' 3"
Ingersoll Rand	ZX-75	16,538	72	0.08-0.41	13' 11"	17' 1"
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	17ZTS	3,814	12.3	0.055	7' 3"	12' 11"
	27CZTS	6,482	32	0.078	8' 8"	15' 5"
	35DZTS	7,672	32	0.14	11' 4"	18' 2"
	50DZTS	10,428	40	0.21	12' 9"	20' 6"
	80C	17,910	52	0.36	15' 1"	23' 3"
	120C	28,840	89	0.79	19' 6"	26' 9"
*ZTS - zero tail swing						
Kobelco	13SR	3,240	11.9	0.028-0.048	6' 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"
	PC18MR-2	4,090	15	N/A	N/A	3' 3"-4' 3"
	PC20MR-2	5,060	20.8	N/A	N/A	4' 8"
	PC27MR-2	6,590	25.5	N/A	N/A	5' 1"
	PC35MR-2	8,245	29.1	N/A	N/A	5' 9"
	PC40MR-2	10,560	39.4	N/A	N/A	6' 5"
	PC50MR-2	11,110	39.4	N/A	N/A	6' 5"
	PC58UU-3	11,540	40	0.29	13' 1"	18' 7"
	PC78US-6	15,850	54	0.37	13' 5"	20' 6"
	PC78MR-6	18,230	54	0.37	13' 8"	22' 2"
	PC95R-2	19,290/20,635	82.5	0.24-0.56	13' 1"	22' 6"
Kubota	K008-3	2,200	10.2	varies	5' 8"	9' 11"
	KX41-3	3,693	17	varies	7' 9.7"	12' 8.4"
	KX71-3	6,550*	27.5	varies	9' 9"	16'
	KX91-3S	7,330*	28	varies	10' 5"	16' 10"
	U35	8,267*	28	varies	10' 4"	16' 11"
	KX121-3S	9,267*	42	varies	11' 6"	18'
	KX161-3	11,698	47	varies	12' 7"	20' 1"
* indicates reach at ground level						
Link-Belt	75 Spin Ace	16,900	52	0.45	14' 11"	22' 8"
Mustang	ME1503	3,560*	23.7	1.1	7' 2"	12' 4"
	ME2203	4,255*	23.7	1.1	8' 1"	13' 4"
	ME3003	6,700*	36.6	1.8	9' 1"	15' 9"
	ME3503	7,715*	48.2	1.8	10' 7"	17' 3.5"
	ME3703	8,030*	48.2	1.8	10' 3"	17' 3.5"
	ME5003ZT	10,582	47	1.8	11' 7"	19' 9.4"
	ME6003	12,566	68	2.5	12' 6"	20' 4.5"
	ME7503ZT	16,193	69	3.24	13' 2.7"	23' 2"

	ME8003	17,548	69	3.24	14' 9"	23' 6"	7' 6.6"
	ME12002	25,397	98.4	14.04	14' 8.5"	26' 2"	7' 10.5"
	%w/canopy						
Takeuchi	TB108	2,029	9.2		5' 6"	9' 6"	29.17/35.4"
	TB016	3,406	12	1.74	7' 10"	12' 4"	3' 3"/4' 3"
	TB125	6,151	23	3.28	9' 6"	10' 6"	4' 9"
	TB135	7,606	28	4.59	11' 2"	17' 6"	5' 4"
	TB145	10,494	38	6.64	12' 6"	19' 8"	6'
	TB53FR	12,430	37.5	5	12' 10"	20' 4"	6' 7"
	TB175	17,230	58		15' 2"	23' 9"	7' 6"
Thomas Equipment	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"	
Vermeer	CX216	3,307	18	12-24	85"	147"	
	CX218	3,748	18	12-24	93"	154"	
	CX219z	3,968	14.3	12-24	90"	154"	
	CX224	5,291	25	12-24	101"	178"	
	CX229	6,063	25	12-24	106"	184"	
	CX234	6,725	32	12-24	142"	195"	
	CX254	11,023	52	12-24	142"	233"	
Yanmar	SV08-1	2,348*	10.3	0.029	4' 9"	8' 11"	2' 3"-2' 9"
	B15-3	3,252*	13.8	0.051	7' 6"	11' 10"	3' 3"
	Vio15-2A	3,704*	11.9	0.065	7' 3"	11' 11"	3' 1"-3' 11"
	Vio20-3	4,910*	19.2	0.086	8' 7"	13' 8"	4' 6"
	Vio27-3	6,306*	24.7	0.104	9' 4"	14' 11"	5' 1"
	Vio35-3	7,740*	24.7	0.143	11'	16' 8"	5' 1"
	Vio45-5	10,121*	38.7	0.182	12' 8"	19' 1"	6' 5"
	Vio55-5	11,312*	38.7	0.209	13' 8"	20' 4"	6' 6"
	Vio75-A	17,530	58.2	0.365	15' 5"	22' 11"	7' 5"
	BTE-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"

*operating weight w/canopy

EXCAVATORS, LARGE (over 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	
Case	CX130	26,920	110	.088	20' 0"	28' 3"	
	CX135	29,288	88	.098	17' 11"	26' 6"	
	CX160	38,875	110	1.00	21' 2"	30' 7"	
	CX210	45,109	153	1.50	22' 0"	32' 1"	
	CX210	47,600	153	.062	39' 4"	50' 10"	
	long reach						
	CX225	51,465	141	1.53	22' 0"	31' 11"	
	CX240	53,405	163	2.00	24' 3"	35' 0"	
	CX240	58,900	163	0.75	48' 0"	59' 11"	
	long reach						
	CX290	64,725	190	2.15	24' 11"	36' 1"	
	CX330	78,043	275	2.93	26' 8"	38' 5"	
	CX380	174,606	444	5.91	35' 0"	52' 4"	
	9060B	99,950	300	3.29	32' 1"	44' 7"	
	Caterpillar	311C U	26,410	79	0.97	18' 4"	23' 0"
312C L		28,970	90	0.97	19' 10"	24' 10"	
314C LCR		32,590	90	1.12	19' 6"	27' 8"	
315C L		36,930	110	1.12	21' 6"	25' 5"	
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"	
324D L		52,602	188	2.39	24' 1"	23' 1"	
325D L		64,460	204	2.39	25' 8"	23' 4"	
330D L		79,700	268	3.34	27' 9"	24' 9"	
345C L		102,960	321	3.9	27' 11"	41' 4"	
365C L		145,430	404	4.58	30' 10"	46' 3"	
385C		182,800	513	7.7	38' 7"	36' 1"	
5110B L		284,000	696	7.8	37' 9"	35' 9"	
Daewoo		Solar 130-V	30,200	108	1.00	15' 4"	23' 0"
		Solar 170-V	37,900	116	1.22	20' 5"	29' 9"
		Solar 220-V	46,100	145	1.54	21' 10"	32' 8"
		Solar 250-V	53,800	162	1.69	22' 3"	33' 7"
	Solar 290-V	62,400	194	2.29	24' 6"	35' 6"	
	Solar 330-V	73,000	245	2.39	25' 2"	36' 11"	
	Solar 400-V	89,100	275	2.85	25' 5"	37' 10"	
	Solar 450-III	96,562	296	5.23	26' 0"	40' 1"	
	Hitachi Const. Machinery	Zaxis 120	27,600	88	0.34-1.06	19' 11"	28' 8"
		Zaxis 135US	30,440	88	0.35-1.15	19' 9"	28' 9"
Zaxis 160LC		35,500	110	0.50-1.30	21' 4"	30' 7"	
Zaxis 200LC		45,400	147	0.67-1.57	21' 11"	32' 6"	
Zaxis 225USLC		53,200	147	0.92-2.03	22' 3"	32' 10"	
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 650LC-3		152,190	463	1.70-6.60	30' 0"	44' 8"	
Zaxis 850LC-3	185,874	532	1.97-7.36	31' 5"	48' 0"		

	EX1200-5d*	238,100	684	3.92-8.5	37' 6"	56' 0"
	EX1200-5dBE*	240,300	684	7.32-8.5	26' 1"	43' 11"
	EX1200-5d**	244,500	684	7.7-8.5	17' 2"	37' 6"
	EX1900BE*	411,200	966	5.8-15.7	26' 10"	48' 6"
	EX1900**	409,800	966	14.4-19.6	19' 5"	40' 11"
	EX2500BE*	526,900	1,302	19.6	28' 1"	54' 2"
	EX2500**	533,500	1,302	19.6-21.6	12' 2"	42' 6"
	EX3600BE*	767,000	1,877	28.8	28' 2"	59' 8"
	EX3600**	772,000	1,877	27.5-30.1	12' 10"	45' 7"
	EX5500BE*	1,142,000	2,604	38	29' 6"	68' 7"
	EX5500**	1,142,000	2,604	35.5-40.0	14' 11"	50' 5"
	EX8000**	1,719,600	3,760	52.3	13' 5"	54' 9"

*backhoe; **front shovel

Ingersoll Rand	ZX-125	27,563	94	0.15-0.55	15' 4"	21' 2"
JCB	JZ70	16,537	58	0.24-0.46	15' 0"	21' 11"
	JS130	30,630	87	0.48-1.0	18' 3"	26' 11"
	JS160NLC	36,320	100	0.50-1.12	20' 1"	29' 3"
	JS220L	48,829	138	0.50-1.62	21' 8"	31' 10"
	JS220LR	48,735	138	0.50-1.62	39' 4"	51' 2"
	JS220LXD	49,912	138	0.50-1.62	21' 8"	31' 10"
	JS260L	56,866	154	0.75-2.0	22' 7"	33' 4"
	JS260LR	61,500	154	0.63-0.94	47' 0"	60' 6"
	JS260LXD	58,302	154	0.75-1.75	22' 7"	34' 9"
	JS330L	72,969	239	1.25-2.75	24' 3"	35' 11"
	JS330LR	75,500	239	0.75-1.35	45' 8"	60' 6"
	JS330LXD	74,480	239	1.25-2.75	26' 11"	38' 4"
	JS460L	103,220	305	1.76-3.99	26' 6"	43' 1"
	John Deere	120C	28,840	89	0.79	19' 6"
160C LC		35,620	109	1.06	20' 10"	28' 3"
200C LC		44,800	141	1.38	21' 11"	32' 6"
200C LC Long Front		43,265	141	1.75	38' 3"	50' 11"
230C LC		52,020	169	1.38	24' 6"	35' 5"
270C LC		62,870	177	1.75	25' 11"	37' 1"
330C LC		72,800	246	2.3	26' 7"	38' 9"
370C		81,200	246	2.3	26' 3"	38' 9"
450C LC		104,000	316	3.06	27' 1"	40' 11"
600C LC		132,140	396	3.3	42' 11"	42' 11"
800C	169,120	454	3.67	31' 9"	48' 9"	

Kobelco	115SRDX	31,750	84	0.44-0.91	18' 1"	27' 4"
	135SRDX	30,840	94	0.44-0.91	19' 7"	28' 9"
	SK160LC	36,800	111	0.45-1.36	21' 7"	31' 2"
	ED190	41,800	103	0.51-1.25	21' 4"	31' 2"
	200SRDX	46,085	123	0.88-1.25	21' 6"	30' 9"
	SK210LC	47,000	143	0.63-1.60	22' 0"	32' 6"
	235SRDX	56,890	143	0.67-1.67	22' 0"	32' 4"
	SK250LC	54,700	176	0.75-1.825	23' 1"	33' 10"
	SK290LC	66,100	185	0.75-2.0	23' 9"	35' 4"
	SK330LC	77,800	238	0.875-2.375	24' 7"	36' 10"
SK480LC	108,045	315	1.5-4.0	25' 7"	39' 7"	
Komatsu	PC120-6	28,375	86	0.44-0.92	18' 1"	26' 10"
	PC120LC-6	28,375	86	0.44-0.92	18' 0"	27' 4"
	PC128UU-2	30,360	86	0.24-0.65	16' 0"	23' 11"
	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"
	PC120LC-6	28,375	89	0.44-0.92	17' 4"	27' 4"
	PC158USLC-2	36,380	99	0.44-0.92	19' 2"	28' 10"
	PC160LC-7	37,130	110	0.48-1.24	20' 6"	30' 4"
	PC200-7	44,110	143	0.63-2.0	21' 9"	31' 10"
	PC200LC-7	46,870	143	0.65-2.0	21' 9"	32' 5"
	PC228USLC-3	51,280	143	0.65-2.0	21' 0"	32' 5"
	PC228USLC-3	51,765	143	0.61-2.0	22' 4"	32' 5"
	PC200LC-8	47,260	148	0.66-1.57	21' 9"	32' 5"
	PC220LC-7	55,189	168	0.63-2.20	24'	34' 8"
	PC220LC-8	54,926	168	0.76-1.85	24'	34' 8"
	PC270LC-7	62,830	179	0.97-2.45	22' 9"	34' 8"
	PC308USLC-3	73,146	179	0.97-2.45	22' 6"	34' 8"
	PC270LC-7MH	73,850	179	N/A	N/A	46'
	PC300LC-7	74,856	242	1.15-2.62	26' 10"	39' 1"
PC300HD-7MH	89,960	242	N/A	N/A	48'	
PC300LC-7	77,298	246	0.89-2.56	26' 10"	39' 1"	
PC300HD-7	85,868	246	0.89-2.56	26' 7"	39'	
PC400LC-7	103,000	330	1.47-4.15	22' 6"	35' 7"	
PC400LC-7	102,018	345	1.47-3.75	30' 4"	43' 10"	
PC600LC-7	133,160	385	3.0-4.48	27' 10"	42' 8"	
PC600LC-7MH	144,014	385	N/A	N/A	60'	
PC600LC-8	132,280	429	2.05-4.98	27' 10"	42' 9"	
PC750-7	175,837					

EXCAVATORS, LARGE (over 25,000 pounds)

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	
Liebherr	R944C	85,032	260	1.31-3.27	22' 11"	35' 7"	
	R954b Shovel	124,560	302	3.27-4.05	27' 11"	40' 0"	
	R954B Li	109,348	302	2.61-5.10	27' 7"	40' 0"	
	R954B V	115,080	302	2.62-5.10	22' 10"	35' 5"	
	R954C	107,828	322	1.7-3.92	25' 1"	37' 7"	
	R964B Shovel	143,321	383	4.45-7.59	28' 10"	44' 3"	
	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"	
	R974B Shovel	191,139	537	5.75-9.81	30' 10"	47' 11"	
	R974B Li	181,330	537	2.88-6.80	32' 2"	47' 11"	
	R974B SME	203,264	537	7.2-8.1	24' 3"	40' 6"	
	Link-Belt	130 LX	27,100	89	0.98	20' 0"	28' 8"
160 LX		36,200	101	1.14	21' 2"	31' 1"	
210 LX		44,800	138	1.53	20' 1"	30' 10"	
210 LX longfront		47,600	138	0.86	39' 4"	51' 2"	
240 LX		52,700	162	1.87	24' 3"	32' 6"	
240 LX long front		61,000	162	0.88	48' 0"	60' 3"	
290 LX		64,400	177	2.43	24' 11"	36' 8"	
330 LX		78,000	247	2.93	26' 8"	39' 1"	
460 LX		101,200	316	4.05	30' 2"	44' 0"	
800 LX		174,600	444	5.91	35' 0"	53' 1"	
135 Spin Ace		29,100	89	0.98	19' 5"	28' 1"	
225 Spin Ace		51,376	138	1.53	20' 0"	30' 9"	
Takeuchi		TB1140	31878	84		18' 0"	28' 1"

EXCAVATORS, WHEELED

Company	Model	Operating Wt. (lbs)	HP	Bucket Capacity (cu. yd.)	Max. Digging Depth	Max. Reach	Travel Speed (mph)
Caterpillar	M313C	30,860	118	0.94	17' 10"	28' 6"	21
	M315C	35,610	129	1.19	18' 10"	29' 10"	21
	M316C	39,028	138	1.19	18' 2"	29' 11"	21
	M318C	42,220	151	1.43	20' 0"	29' 9"	21
	M322C	48,940	164	1.65	20' 3"	31' 4"	15
Hitachi	Zaxis 180W	38,400-42,549	121	0.59-1.60	19' 3"	29' 8"	18.6
	Zaxis 210W	42,300-46,562	147	0.59-1.60	21' 1"	32' 8"	15.5
	Note: data given at standard configuration. Longer arms available.						
John Deere	180CW	42,500	123	0.59-1.60	19' 4"	31' 3"	18.6
	210CW	46,500	148	0.59-1.60	21' 1"	33' 4"	15.0
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

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)
Ditch Witch	MM5	303						
	FT5	200						
	FM13	500/1,000						
	FM50	1,000/2,000						
Inrock Mud Mizzer	100	900	100	vac systems	jet	yes	yes	both
	150	1,100	150	vac systems	jet	yes	yes	both
	250	1,600	250	vac systems	jet	yes	yes	both
Mud Mover 150: auxiliary, diesel mud pump with 150 gpm pump capacity. Primary or stand-by pump supports 3/4" mud motors. Mud Maker 750: diesel mud mixer with 4' x 8' print for trailer/truck mount; 750 gal. tank and 2,000 gal. capacity; optional desanding cone.								
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
Parchem	CS-150	1,400	150	150				
	CS-300	1,400	300	300				
	CS-400	4,200/100 (bbl.)	400	400				
	CS-500	7,350/175 (bbl.)	500	500				
	CS-1000	8,400/200 (bbl.)	1,000	1,000				
StraightLine	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	rotary diaphragm	venturi	N/A	N/A	skid
	DS500	500	N/A	N/A	agitator	N/A	N/A	skid
	DS1000	1,000	N/A	high pressure reciprocating	agitator	N/A	N/A	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					
Vermeer	MX125	300 or 500	N/A	centrifugal	venturi/roll gun	N/A	N/A	modular
	MX250	750 or 1,000	N/A	centrifugal	venturi/roll gun	N/A	N/A	modular

PIERCING TOOLS

Company	Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit (ft)	Cycles/Minute
Allied Const. Products	218C	pneumatic	28	2-1/8	40	3 x 5	535
	1000C(TH)	pneumatic	72	3	150	3 x 5	400
	HH-79	pneumatic	75	3.1	150	3 x 5	440
	HH-79(TH)	pneumatic	80	3.1	150	3 x 5	440
	2100C(TH)	pneumatic	125	3-7/8	150	3 x 5	400
	2101C(TH)	pneumatic	142	5	150	3 x 5	400
	2501C(TH)	pneumatic	140	4-1/16	150	3 x 6	400
	2502C(TH)	pneumatic	164	6	150	3 x 6	400
	3000C(TH)	pneumatic	195	5-1/8	150	3 x 6	400
	3001C(TH)	pneumatic	247	7	150	3 x 6	400
	4000	pneumatic	282	6	150	3 x 8	400
	4001	pneumatic	310	8	150	3 x 8	400
Ditch Witch	Pierce Airrow 2.5-inch Standard Reverse	pneumatic	47.5	2.56	50+	4" x 5'	430
	Pierce Airrow 2.5-inch Quick Reverse	pneumatic	47.5	2.56	50+	4" x 5'	450
	Pierce Airrow 3-inch Standard Reverse	pneumatic	75	3.13	50+	5" x 6'	450
	Pierce Airrow 4-inch Standard Reverse	pneumatic	138	4	70+	6" x 7'	440
	Pierce Airrow 4-inch Quick Reverse	pneumatic	138	4	70+	6" x 7'	440
	Pierce Tool PT20						
	Quick Reverse PT30	pneumatic	31	2.25	50+	4" x 5'	540
	Quick Reverse PT40	pneumatic	68	3.25	70+	4" x 5'	480
	Quick Reverse PT40	pneumatic	130	4.25	150+	6" x 6'	410
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
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	4.5	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

McLaughlin						
McL210	pneumatic	25	2-1/8	variable	5	720
McL255	pneumatic	50	2-5/8	variable	5	720
McL310	pneumatic	78	3-1/8	variable	5	600
McL410	pneumatic	155	4-1/8	variable	6	420

TT Technologies						
Grundosteer 70	pneumatic	97	3	200	2 x 7	420
P45 Grundomat 1-3/4	pneumatic	18	1-3/4	75	1 x 3	580
P45-SS Grundomat 1-3/4	pneumatic	17	1-3/4	50	1 x 2	680
P55 Grundomat 2	pneumatic	30	2	75	1 x 3-1/2	480
P65 Grundomat 2-1/2	pneumatic	55	2-1/2	150	2 x 4	460
P65-SS Grundomat 2-1/2	pneumatic	39	2-1/2	100	2 x 3	640
P75 Grundomat 3	pneumatic	70	3	150	2 x 5	400
P75-SS Grundomat 3	pneumatic	62	3	100	2 x 4	460
P85 Grundomat 3-1/3	pneumatic	100	3-1/3	150	2 x 5	390
P85-SS Grundomat	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-SS Grundomat 3-3/4	pneumatic	128	3-3/4	150	2 x 6	360
P100 Grundomat 4	pneumatic	155	4	200+	2 x 6	320
P100-SS 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-SS 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	300+	2 x 7	320
P170 Grundomat 7	pneumatic	575	7	300+	2 x 8	280

TERRA						
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

PIERCING TOOLS

Company Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit (ft)	Cycles/Minute
TERRA 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 w.KOK-LD	air	500	up to 20	75	N/A	275

Vermeer 2" RH SR	air	2	75	1 x 3.5	470
2" RH PP	air	2	75	1 x 3	515
2" AH PP	air	2	75	1 x 3	515
2.5" RH SR	air	2.5	100	2 x 4	385
2.5" RH PP	air	2.5	100	2 x 4	385
2.5" AH PP	air	2.5	100	2 x 4	385
3" RH SR	air	3	150	2 x 5	370
3" RH PP	air	3	150	2 x 5	370
3" AH PP	air	3	150	2 x 5	370
3.5" AH PP	air	3.5	150	2 x 5	370
4" RH SR	air	3.875	150	2 x 6	370
5.125" SR	air	5.125	150	2 x 6	333
5.5" SR	air	5.5	150	2 x 6	370
5.75" SR	air	5.75	150	2 x 8	300
7" AR	air	7	150	2 x 8	295
8" AR	air	8	150	2 x 10	223

RH-replaceable head; SR-screw reverse; PP-power port reverse; AH-active head

PIPE JACKING/MICROTUNNELING

Company Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Size Pit (ft)	Total Thrust
Akkerman Equipment 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 SL24MTBM	**	varies	87-170	unlimited	20 x 30	1,200T
SL30MTBM	**	10,440	24-32	500	10 x 14	400T
SL36MTBM	**	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. Consult Akkerman for details.

*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.

Iseki Unclemole Mini 200-300	electric	IT	8-17	330	7	65T
Unclemole Z						

250-500 Unclemole	electric	2T	10-28	400	7	200T
600-900 Unclemole	electric	7T	24-48	800	12	400T
1000-1350 Unclemole	electric	18T	36-70	1,200	21	800T
1500-1800 Unclemole	electric	40T	57-90	1,600	24	1,200T
2000-2200 Unclemole	electric	55	78-112	2,000	30	1,600T
Super Jr. 350-400 Unclemole	electric	2T	10-24	330	7	65T
Super 450-500 Unclemole	electric	3T	18-28	400	7	200T
Super 600-900 Unclemole	electric	9T	24-48	800	12	400T
Super 1000-1500 Unclemole L	electric	25T	36-70	1,200	21	800T
600-900 Unclemole L	electric	8T	24-48	1,500	12	varies
1000-1200 Unclemole	electric	20T	36-70	1,650	21	varies
Emperor 1200	electric	30T	48-60	1,650	24	varies
Crunchingmole 600-900	electric	5T	24-48	800	12	400T
Crunchingmole 1000-1350	electric	6T	36-70	1,200	21	800T
Crunchingmole 1500-1800	electric	26T	57-90	1,600	24	1,200T
Crunchingmole 2000-3000	electric	61T	78-144	2,000	30	1,600T
TSM 600-900	electric	4T	24-48	800	12	400T
TSM 1000-1350	electric	9T	36-70	1,200	21	800T
TSM 1500-1800	electric	21T	57-90	1,600	24	1,200T
TSM 2000-3000	electric	62T	78-144	2,000	30	1,600T
MEPCB 600-900	electric	4T	24-48	800	12	400T
MEPCB 1000-1350	electric	9T	36-70	1,200	21	800T
MEPCB 1500-1800	electric	21T	57-90	1,600	24	1,200T
MEPC 2000-3000	electric	62T	78-144	2,000	30	1,600T
EPB 1000-1350	electric	18	36-70	1,200	21	800T
EPB 1500-1800	electric	30	57-90	1,600	24	1,200T
EPB 2000-3000	electric	40	78-112	2,000	30	1,600T
Rock Machine 600-900	elec/hyd	varies	30-43	400-700	12	varies
Rock Machine 1000-1350	elec/hyd	varies	48-64	900-1,500	20	varies
Rock Machine 1500-2000	elec/hyd	varies	72-88	1,000-1,600	26	1,200T+
EPB Unclemole 1500	elec/hyd	varies	72	1,000-1,600	26	1,200T+
EPB Unclemole 1650	elec/hyd	varies	78	1,000-1,600	26	varies

Wirth/ Soltau 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 RAMMING

Company Model	Type Drive	Weight (lbs)	Boring Diameter Range (in)	Max. Bore Length (ft)	Surface Launch (ft)
TT Technologies Titan	air	302	4-12	300	3 x 30
Mini-Olympus	air	385	4-12	300	3 x 30
Olympus	air	510	4-12	300	3 x 30
Herkules	air	815	4-16	300	3 x 30
Mini-Giant	air	1,012	8-24	300	3 x 30
Giant	air	1,355	12-24	300	3 x 30
Koloss	air	2,600	20-36	300	3 x 30
Goliath	air	5,435	24-55	300	3 x 30

Taurus	air	10,585	55-90	300	3 x 30	
Apollo	air	25,500	72-122	300	3 x 30	
HV220	air	945	4-16	300	3 x 30	
Reversible PCG270	air	1,540	12-24	300	3 x 30	
Reversible KV350	air	3,375	20-36	300	3 x 30	
Reversible						
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TERRA	TR 190 mini	air	242	up to 16	300+	3 x 30
	TR 220	air	690	up to 24	300+	3 x 30
	TR 360	air	1,460	up to 40	300+	3 x 30
	TR 565	air	5,577	up to 80	500+	6 x 50
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Vermeer	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						
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Ditch Witch	P-40	hydraulic	440/209	1-1/2-12	250' direct	18" x 67-94" 39,344
	P-80	hydraulic	704/462	1-3/4-12	500' direct	18" x 72-100" 80,935
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McLaughlin	McL1200	hyd-direct	400	2- 6-5/8	150	18" x 60" 49,700
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Poweram	2020	hydraulic	1,300	up to 12	300+	2' x 7' 3" 98,175
	1425	hydraulic	400	up to 4	100+	3' x 4' 42,400
	1825	hydraulic	615	up to 6	150+	3' x 4' 2" 75,400
	1915	hydraulic	1,000	up to 12	200+	3' x 6' 98,175
	7000	hydraulic	3,400	up to 16	500+	3' 6" x 11" 118,000
	9000	hydraulic	1,500	up to 12	300+	3' x 7' 98,175
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Pow-R Devices	1000A	backhoe	320	½ - 8	150	7-1/2" x 10-1/2' 110,000
	PD4	hydraulic	320	½ - 6	300 direct	2' x 4' 37,722
	PD6	hydraulic	720	½ - 8	300 direct	2' x 5' 84,800
	PD7	hydraulic	1,040	½ - 10	300 direct	N/A 112,000
	PD8	hydraulic	1,920	½ - 14	300 direct	N/A 151,000

SKID STEER LOADERS

(MINI CRAWLERS/ALL SURFACE LOADERS)

Company	Model	HP	Operating Wt. (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin)	Bucket Capacity (cu. ft.)
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ASV Inc.	RC-30	31.5	2,935	800*	80.25	0.25
	RC-50	50	6,200	1,900*	115	0.5
	RC-60	60	6,200	1,900*	115	0.5
	RC-85	86	9,710	3,400*	125	0.75
	RC-100	99.5	10,150	3,800*	125	0.75
	RCV	86	10,500	4,000*	131	0.75
	SR-70	71	7,890	2,750*	125	0.65
	SR-80	80.5	8,972	3,100*	125	0.75
*50% tipping load						
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Bobcat	463	22.5	2,708	700	94.5	5.5-7.9
	553	25	3,704	950	103.7	6.7-12.8
	S130	46	5,063	1,300	109.1	9.6-27
	S150	46	5,662	1,500	114.5	14-32.3
	S160	56	5,752	1,600	114.5	14-32.3
	S175	46	5,808	1,750	118.2	14-32.3
	S185	56	5,808	1,850	118.2	14-32.3
	S205	61	6,242	2,050	118.2	14-32.3
	S220	75	7,370	2,200	122.4	15.4-32.3
	S250	75	7,723	2,500	126.4	15.4-54.2
	S300	81	8,140	3,000	126.4	15.4-54.2
	A300	81	8,555	3,000	126.4	15.4-54.5
A = all wheel steer						
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Compact Track Loaders						
	T140	46	6,424	1,400*	104.6	9.6-27
	T180	56	7,078	1,800*	114.5	14-32.3
	T190	56	7,244	1,900*	118.2	14-32.3
	T250	81	8,140	2,000*	122.4	14-32.3
	T300	81	8,350	3,000*	126.4	15.4
*35% tipping load						
<hr/>						
Case	1825B	30	3,107	885	27.6	7.1
	40XT	60	5,716	1,500	31.9	19.7
	60XT	75	6,526	1,800	29.7	19.7
	70XT	85	6,906	2,000	29.7	19.7
	75XT	75	6,700	2,200	32.7	22.4
	85XT	80	8,057	2,400	47.9	25.3
	90XT	85	8,950	2,450	35.3	32.5
	95XT	85	9,050	3,150	45.2	32.5

SKID STEER LOADERS

(MINI CRAWLERS/ALL SURFACE LOADERS)

Company	Model	HP	Operating Wt. (lbs)	Lift Capacity (lbs)	Max. Reach (height to pin)	Bucket Capacity (cu. ft.)
Caterpillar	216B	48	5,839	1,400	112	0.47*
	226B	57	5,962	1,500	112	0.47*
	232B	48	6,736	1,750	119	0.47*
	236B	68	7,118	1,750	122	0.52*
	242B	57	6,875	2,000	120	0.47*
	246B	76	7,252	2,000	122	0.52*
	248B	75	7,431	2,000	122	0.52*
	252B	68	7,945	2,500	127	0.52*
	262B	76	7,945	2,700	127	0.52*
	268B	77	8,075	2,700	127	0.52*
	247B	57	6,668	1,950	113	0.52*
	257B	57	7,559	2,310	121	0.52*
	267B	68	9,404	2,900	122	0.57*
	277B	76	9,404	2,900	122	0.57*
	287B	76	10,240	3,600	128	0.57*
*cubic yards						
Ditch Witch	SK300	13	1,270	870	70.4	4.2
	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
John Deere	317	57	6,300	1,750	114	16.2
	320	62	6,435	1,950	115.2	17.8
	325	70	8,390	2,500	125	19.4
	328	76	8,580	2,750	127	19.4
	332	85	9,160	3,175	127	19.4
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
	2099	86	10,180	3,400	36.8	22
	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	
	LS190	75	7,860	2,842	33.4	
RAYCO	C87L	87	9,800	2,500/3,580*	121	0.75
*35%/50% tipping load						
Takeuchi	TL 130	67	7,497	1,620*	28.8	14
	TL 150	101.5	10,692	2,470*	38.8	24
*35% tipping load						
Terramite	T5C	20, gas	3,200	1,700	81	1/4 yd
	T7	26, diesel	4,125	1,700	96	1/3 yd
	T92WD	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	34.3	
245X	90	8,000	2,400	25.3	34.3	
Vermeer	S600	25	2,170	600	22"	4-6
	S600TX	25	2,530	500	22"	4-6

TRENCHING MACHINES, CHAIN

Company	Model	HP	Max. Digging Depth (in)	Max. Digging Width	Operating Wt. (lbs)
Ditch Witch	1030	11	30"	6	780
	1230	13	36"	6	780
	1330	13	36"	6	920
	1820	18	4'	16	1,300
	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
	RT185	185	84"	24	33,500
	HT185	185	84"	24	38,000
Great Lakes	1824*	238	7' +	24+	37,000
	2028*	276	8' +	24+	38,500
InterDrain	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
*mechanical design					
**hydraulic design (available with hydraulic offset digging option)					
Note: Custom machines available.					
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	280	5'	18	40,000
	RIV 152 TC 120	152	3' 94"	12	21,100
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	480A	116	6'	20	17,000
	560B	177	6'	24	38,000
	660B	250	8'	28	50,000
	665HD	185	8'	24	36,000
	760HD	210	8'	28	50,000
	860B	325	10'	36	75,000
	960HD	325	10'	36	85,000
	1060	402	12'	42	100,000
	1260HD	402	12'	42	125,000
	1460HD	600	16'	48	185,000
	1660HD	750	20'	60	250,000
	1760HD	900	20'	72	375,000
	1860HD	1,500	24'	96	450,000
Vermeer	RT350	37	48	12	2,990
	RTX350	37	48	12	3,980
	RT450	46	60	12	3,380
	RTX450	46	60	12	4,480
	RT650	76	60	16	6,600
	RT850	85	72	16	7,800
	RT950	99	72	18	8,160
	RT1250	120	72	18	8,310
	V8100	74	60	18	6,380
	T455	125	72	24	23,000
	T555 II	185	96	24	31,000
	T558	185	72	24	52,000
	T655 II	250	96	26	53,000
	T755	275	120	36	73,000
	T855	335	144	36	82,000
	T858	350	96	36	99,000
	T955	400	144	42	105,000
	T1055	425	168	42	115,000
	T1255	600	216	48	210,000

TRENCHING MACHINES, ROCKSAW

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. (lbs)
Rivard Trenching Systems	RIV502 TR 250	540	5' 10"	14	62,500
	RIV303 TR 130	280	4' 2"	11	33,400
	RIV150 TR 100	150	3' 4"	10	19,600
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	406A	116	30"	8	22,000
	580B	177	36"	8	35,000
	660B	250	42"	10	50,000
	860B	325	48"	12	65,000
	1060	402	48"	12	85,000
	1260RS	525	54"	12	95,000
Vermeer	T555RW	185	36"	6	32,000
	T855RW	335	54"	14	104,000

TRENCHING MACHINES, WHEEL

Company	Model	HP	Max. Digging Depth	Max. Digging Width (in)	Operating Wt. (lbs)
Ditch Witch	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
	RT90	85	40"	8	16,000
	RT95	99	97"	24	7,980
	HT115	115	100"	24	12,000
	RT115	115	40"	8	17,000
	RT185	185	42"	11.5	33,500
	HT185	185	42"	11.5	38,000
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	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

*self-leveling; **self-leveling offset

Trencor/Astec	BC630	116	6'	24	45,000
	BG730	177	7.5'	48	65,000
	930HD	325	8.5'	72	84,000
	780HD	300	8'	42	80,000
	980HD	500	8.5'	66	160,000
	1080HD	750	9.5'	84"	235,000

VACUUM EXCAVATORS

Company	Model	HP	Capacity (gal)	Compressor (cfm/psi)	Vacuum (cfm/Hg)	Operating Wt. (lbs)	Mounting Option
AmeriVac Group	MV700	300	650*/1,250**	3,000	16"	25,500***	Truck
	MV700T	300	1,300*/1,250**	3,000	16"	28,500***	Truck
	MV1400	370	1,300*/2,500**	3,200	16"	35,000***	Truck
*water; **debris; ***empty weight							
Ditch Witch	FX30	28	500	500	15"	9,950	
	FX30	28	800	500	15"	14,940	
	FX30	28	1,200	500	15"	22,440	
	FX60	56	300	900	16"	10,350*	
	1FX60	56	800	900	16"	16,850*	
	FX60	60	1,200	900	16"	24,880	
*weight with water							
CapVax	MC1510	300	1,500*/10 cu.yd**	5,000	16"	38,000	
	HV56	370	1,000*/3,000**	5,300	28"	46,000	
	VHE-1510	300	1,500*/2,000**	5,000	16"	38,000	
*water tank; **spoils tank							

VACUUM EXCAVATORS

Company	Model	HP	Capacity (gal)	Compressor (cfm/psi)	Vacuum (cfm/Hg)	Operating Wt. (lbs)	Mounting Option	
Hi-Vac	XL500	35	500	540	15"	5,200		
	XL800	35	800	540	15"	5,500		
	X500	56	500	540-220	15"-27"	5,500		
	X800	56	800	540-220	15"-27"	5,700		
	CB10	50-400	1,000-3,000	1,000-5,000	15"-27"	12,000-64,000		
	Keith Huber	Air Shovel	80	700	440	27"	N/A	
McLaughlin	VSK100G	25	50	325	12"	1,000	skid, truck	
	VSK100D	30	50	500	15"	1,300	skid, truck	
	VT250D	30	125	500	15"	3,454	trailer	
	VT500D	30/43	230	575/850	15"	5,570	trailer	
	VT800D	30/43	230	575/850	15"	6,540	trailer	
	VT1200D	30/43	230	575/850	15"	8,760	skid, truck	
	VSK250D	30/43	230	575/850	15"	1,454	skid, truck	
	VSK500D	30/43	230	575/850	15"	3,100	skid, truck	
	VSK800D	30/43	230	575/850	15"	3,550	skid, truck	
	VSK1200D	30/43	230	575/850	15"	4,760	skid, truck	
	Pacific Tek	PV-100	20	100	325	15"	1,100*	skid
		PVW-150	25	150	525	15"	1,800*	skid
		PVW-220	25	220	525	15"	1,950*	skid
PV-200		20	200	325	15"	1,800*	skid	
PV-350		25	350	325	15"	2,350*	skid	
PV-500		25	500	525	15"	2,875*	skid	
PV-500DHO		37	500	825	15"	3,300*	skid	
PV-800DHO		37	800	825	15"	3,700*	skid	
PV-1200DHO		37	1,200	825	15"	4,400*	skid	
							*empty weight	
Ring-O-Matic	275 SJV	34 gas/diesel	275*/100**	450	15"	2,800		
	550 SJV	34 gas/diesel	550*/200**	450	15"	4,100		
	550 SJV	34 gas/diesel	550*/200**	450	15"	4,350		
	PTHD							
	550 SJV	50 diesel	550*/200**	850	15"	5,300		
	HI CFM PTHD							
	750 SJV	34 gas/diesel	750*/500**	450	15"	5,860		
	750 SJV	50 diesel	750*/500**	850	15"	6,060		

750 SJV	50 diesel	750*/500**	850	15"	6,310
HI CFM PTHD					
1300 SJV	34 gas/diesel	1,300*/500**	450	15"	8,000
1300 SJV	50 diesel	1,300*/500**	850	15"	8,500
HI CFM					
1300 SJV	50 diesel	1,300*/500**	850	15"	8,750
HI CFM PT					
275 SJV#	34 gas/diesel	275*/100**	450	15"	2,170
550 SJV C#	34 gas/diesel	550*/200**	450	15"	3,100
750 SJV C#	34 gas/diesel	750*/500**	450	15"	4,160
750 SJV	50 diesel	750*/500**	850	15"	4,660
HI CFM C#					
750 SJV	50 diesel	750*/500**	850	15"	4,910
HI CFM PTHD C#					
1300 SJV C#	34 gas/diesel	1,300*/500**	450	15"	6,000
1300 SJV	50 diesel	1,300*/500**	850	15"	6,500
HI CFM C#					
1300 SJV	50 diesel	1,300*/500**	850	15"	68,750
HI CFM PT C#					
750 SV	25 gas	750*	450	15"	3,120
750 SV PTHD	25 gas	750*	450	15"	3,370
750 SV C#	25 gas	750*	450	15"	2,120
750 SV PTHD C#	25 gas	750*	450	15"	2,370
1300 SV	25 gas	1,300*	450	15"	4,500
1300 SV PT	25 gas	1,300*	450	15"	4,750
1300 SV C#	25 gas	1,300*	450	15"	3,100
1300 SV PT C#	25 gas	1,300*	450	15"	3,350

Super Products	Camel Vac Trailer	44	1,000	1,150	15"	8,300*
	Little Sucker	200	1,000-3,200	900	27"	17,300-25,000*
	Mud Dog	410	2,000-3,200	3,800-5,500	28"	33,000-37,000*
	Camel Hydroex	300	2,000-3,200	3,600-3,800	16-28"	30,000-35,000*

Tornado Tech.	F-1	315	850	2,450	27"	26,000
	F-2	315	1,450	2,450	27"	30,000
	F-3	425	2,626	3,658	27"	41,000
	F-4	475	2,626	5,200	27"	45,000

Trenchless Tech. Products	CV200	25	200	500/15"	N/A	skid, trailer
	WC500	25	500	500/15"	N/A	trailer, truck
	WG1000	25	1,000	500/15"	N/A	trailer, truck

	WD1200	37	1,200		880/15"	N/A	trailer, truck
	WD2000	57	2,000		1,433/13"	N/A	truck
	Dry Excavatory	37	500	185/125	880/15"	N/	trailer, truck
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*	68	300/500	100/150	800/15"	5,000	truck, trailer, skid
	System 3000*	100	300	165/180	1,000/15"	7,000	truck
	System 4000*	155	450/800	300/220	1,000/15"	9,000	truck
	*air & water.						
VacStar	VS500GX*	25/9	500	360	22"	12,000***	
	VS500DX**	28	500	360	22"	12,000***	
	VS500GT*	25/9	500	360	22"	12,000***	
	VS500DT**	28	500	360	22"	12,000***	
	VS800GX*	25/9	800	360	22"	16,000***	
	VS800DX**	28	800	360	22"	16,000***	
	VS800GT*	25/9	800	360	22"	16,000***	
	VS800DT**	28	800	360	22"	16,000***	
	*two gas-powered engines **diesel engine ***full operating weight						
Vactor	2112 Fan	380	2,425	8,000	12"	37,000	
	2112 PD	410+	2,425	5,300	28"	45,000	
Vac-Tron	PMD550GT	25	500	4,000	550	14,000	trailer/truck/platform/component
	PMD550DT	36	500	4,000	550	14,000	trailer/truck/platform/component
	PMD550SDT	49	500	4,000	1,000	14,000	trailer/truck/platform/component
	PMD850GT	25	800	4,000	550	20,000	trailer/truck/platform/component
	PMD850DT	36	800	4,000	550	20,000	trailer/truck/platform/component
	PMD850SDT	49	800	4,000	1,000	20,000	trailer/truck/platform/component
	EV150GT	15	150	4,000	300	7,000	trailer/truck/platform
	EV150SGT	25	150	4,000	550	7,000	trailer/truck/platform
	EV150SDT	25	150	4,000	550	7,000	trailer/truck/platform
	CS500GT	25	500	N/A	550	8,996	trailer/truck/platform/component
	CS500DT	25	800	N/A	550	11,000	trailer/truck/platform/component
	MC550DT*	36	500	4,000	550	20,000	trailer/truck/platform/component
	MC550SDT*	49	500	4,000	1,000	20,000	trailer/truck/platform/component
	MC850DT*	36	800	4,000	550	20,000	trailer/truck/platform/component
	MC850SDT*	49	800	4,000	1,000	20,000	trailer/truck/platform/component
	MC150SGT**	25	150	4,000	550	7,000	trailer/truck/platform
	MC150SDT**	25	150	4,000	550	7,000	trailer/truck/platform
	*Vac/Jetter Combo; *Vac/Valve Exerciser						
Vector	4002VGS	20 gas	100/200	430	16"	3,600	skid
Tech.	5003VGS	25 gas	200/350	650	16"	4,775	skid
	5003VDS	34 diesel	200/350	650	16"	4,975	sk
	5005VGS	25 gas	225/500	650	16"	5,185	skid
	5005VDS	34 diesel	225/500	650	16"	5,385	skid
	5005VG	25 gas	225/500	650	16"	7,185	trailer
	5005VD	34 diesel	225/500	650	16"	7,385	trailer
	6008VGS	25 gas	335/800	650	16"	5,550	skid
	6008VDS	38 diesel	335/800	650	16"	5,750	skid
	6008VG	25 gas	335/800	650	16"	7,550	trailer
	6008VD	38 diesel	335/800	650	16"	7,750	trailer
	7008VDS	60 diesel	335/800	990	16"	5,950	skid
	7008VD	609 diesel	335/800	990	16"	7,950	trailer
	8000VDS	75 diesel	335/1,000	1,410	23"	6,400	skid
	8000VD	75 diesel	335/1,000	1,410	23"	8,400	trailer
	9000VDS	100 diesel	335/1,000	1,410	28"	6,500	skid
	9000VD	100 diesel	335/1,000	1,410	28"	8,500	trailer
Vermeer	E550	25 gas/29 diesel		550	500	15"	15,000*
	E550Plus	64 diesel	550	1,000	16"	15,000*	
	E800	25 gas/29 diesel		800	450	15"	15,000*
	E900	25 gas/29 diesel		900	500	15"	24,100*
	E900Plus	64 diesel	900	1,000	16"	26,500*	
	E1400	25 gas/29 diesel		1,400	450	15"	24,100*
	*GVWR						
WHEEL LOADERS							
Company	Model	HP	Operating Wt. (lbs)	Standard Bucket (cu. yds.)	Operating Load (lbs.)	Tip Load (lbs.)	Travel Speed (mph)
Case	21D	52	9,686				
	221D	59	11,661				
	321D	71	12,896				
	521D	110	21,603				
	521D XT	110	25,888				
	621D XT	134	27,602				
	721C	152	29,630				
	721C XT	152	30,843				
	821C	187	37,901				
	921C	248	50,621				
Caterpillar	904B	52	9,810				
	906	68	10,912				
	908	76	13,288				
	914G	95	17,530				
	IT14C	95	18,632				
	924G	129	24,990				
	924Gz	129	23,920				

WHEEL LOADERS

Company	Model	HP	Operating Wt. (lbs)	Standard Bucket (cu. yds.)	Operating Load (lbs.)	Tip Load (lbs.)	Travel Speed (mph)
Caterpillar	928Gz	143	27,140				
	930G	149	28,725				
	938G II	134	29,656				
	IT38G II	160	32,156				
	950H	197	40,435				
	962H	211	42,700				
	IT62H	211	42,770				
	966H	262	52,254				
	972H	287	55,451				
	980H	318	68,171				
	988H	501	109,249				
	990H	627	171,642				
	992G	800	209,278				
	994F	1,429	430,858				
	Daewoo	MEGA 160-III	104	19,140			
MEGA 200-III		126	23,192				
MEGA 250-III		170	30,208				
MEGA 300-III		205	37,258				
MEGA 400-III		257	48,289				
Plus							
Ingersoll Rand	WL-350	60.5	11,240	1.2	10,800	8,510	13
	WL-440	82.1	13,230	1.4	13,730	10,460	13
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	64	11,552	1.0	8,457	7,713	18.6
	304J	73	13,404	1.4	10,241	9,315	18.6
	444J*	125	22,645	2.5	18,340	15,639	23.4
	444J**	125	24,736	2.5	14,672	12,586	23.4
	544J*	160	27,489	3.0	22,801	18,782	23.8
	544J**	160	29,408	3.0	18,035	15,466	23.8
	624J*	180	29,900	3.5	25,639	21,854	24.6
	624J**	180	34,455	3.5	20,831	17,894	24.6
	644J	225	38,876	4.25	31,210	26,281	22.0
	724J	250	40,704	4.75	33,079	27,763	22.0
	744J	288	51,467	5.25	39,978	32,839	24.5
	824J	316	57,374	6.0	42,523	35,708	24.5
*Z-bar linkage; **Powerlift linkage							

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				
WA700-3	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				

WHEEL LOADERS

Company	Model	HP	Operating Wt. (lbs)	Standard Bucket (cu. yds.)	Operating Load (lbs.)	Tip Load (lbs.)	Travel Speed (mph)
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	TL130	67	7,497		1,620	4,630	4.4/6.26
	TL140	81	9,590		2,083	5,952	4.6/6.6
	TL150	97	10,692		2,470	7,056	4.8/6.9
Yanmar	V3-5A	28.6	6,750	0.52	1,985	4,740	10.8
	V4-5A	36.5	7,651	0.65	2,315	5,510	11.1

operating weight w/canopy

WALKOVER LOCATORS

Company	Model	Type	Operating Voltage	Battery Life	Audio Output Frequency (kHz)	Weight (lbs)	Operating Temp.	Overall Length (in)	
Ditch Witch/ Subsite Electronics	750 Tracker Radio (Optional)	receiver	6 "C" cell	20 hrs	29	5.5	-4°F to 122°F	12.8 x 31.5 x 6	
	750 Display	receives/ displays data	6 "C" cell	8 hrs	N/A	6.5	-4°F to 122°F	3.3 x 5.5 x 4.7	
	SBRP	beacon	1 "AA"	16 hrs	29	6.6 oz	-4°F to 122°F	.75 x 11.4	
	822	beacon	1 "AA"	16 hrs	29	6.6 oz	-4°F to 122°F	.75 x 11.4	
	86B	beacon	2 "C" cell	40 hrs	29	2.75	-4°F to 122°F	1.5 x 17.8	
	86BH	beacon	2 "C" cell	16 hrs	29	2.75	-4°F to 122°F	1.5 x 17.8	
	86BHL	beacon	cust. battery pack	60 hrs	29	6.2	-4°F to 122°F	2.5 x 26.5	
	86BG	grade beacon	2 "C" cell	16 hrs	29	2.74	-4°F to 122°F	1.5 x 17.8	
	Digital Control Inc.	Mark III	receiver	14.5-16.5 volts	12 hrs Nicad rechargeable	N/A	8.5	-4°F to 140°F	13.5
		Mark III	remote display	12.5-16.5 volts	12 hrs Nicad rechargeable	N/A	4.1	-4°F to 140°F	10.0
Mark V		receiver	14.5-16.5 volts	12 hrs Nicad rechargeable	N/A	8.7	-4°F to 140°F	13.5	
Mark V		remote display	12.5-16.5 volts	12 hrs Nicad rechargeable	N/A	4.1	-4°F to 140°F	10.0	
LT		receiver	14.5-16.5	12 hrs	N/A	5.6	-4°F to 140°F	13.5	
LT		remote display	12.5-16.5	12 hrs	N/A	4.1	-4°F to 140°F	10	
LT		transmitter	1 "AA" alkaline	20 cont. hrs	N/A	0.5	-4°F to 180°F	8	
Eclipse		receiver	14.5-16.5 volts	6 hrs	N/A	8.3	-4°F to 140°F	14.5	
Eclipse		remote display	12.5-16.5 volts	12 hrs Nicad rechargeable	N/A	6.2	-4°F to 140°F	11.5	
DFT		transmitter	3 volts	20 cont. hrs	N/A	1.4	-4°F to 220°F	15	
DX		transmitter	3 volts	20 hrs	N/A	1.4	-4°F to 220°F	15	
DS		transmitter	1 "AA" alkaline	12 cont. hrs	N/A	0.5	-4°F to 180°F	8	
DT		transmitter	3 volts	30 hrs	N/A	1.4	-4°F to 220°F	15	
D4X		transmitter	6 volts	40 cont. hrs	N/A	1.4	-4°F to 220°F	19	
DXP		transmitter	3 volts	20 cont. hrs	N/A	1.4	-4°F to 220°F	15	
D4XP		transmitter	6 volts	40 cont. hrs	N/A	1.85	-4°F to 220°F	19	
DC (Cable)		transmitter	12-30 volts		N/A	1.2	-4°F to 180°F	15	
DCP (Cable)		transmitter	12-30 volts		N/A	1.2	-4°F to 180°F	15	
EDF		transmitter	3 volts	10 cont. hrs	N/A	1.4	-4°F to 220°F	15	
ETP		transmitter	3 volts	20 cont. hrs	N/A	1.4	-4°F to 220°F	15	
ECP (Cable)		transmitter	12-30 volts		N/A	1.85	-4°F to 180°F	19	
Spot D Tek IV		receiver		20+ hrs.	N/A	9.4	-6°F to 114°F	31	
Spot D Tek Molemap		remote display		12 volts	N/A	8.5	-4°F to 140°F	12.4	
CDT		transmitter	3 volts	20+ hrs.	N/A	1.81	220°F max.	14.96 x 1.25	
CDX		transmitter	3 volts	12+ hrs.	N/A	1.81	220°F max.	14.96 x 1.25	
CLF		transmitter	3 volts	12+ hrs.	N/A	1.81	220°F max.	15	
Spot Lite Receiver		receiver	6 "C" cell	20+ hrs.	N/A	8.9	-6°F to 114°F	15	
Spot Lite Monitor		receiver	4 "C" cell	20 hrs.	N/A	8.2	-6°F to 114°F	15	
Goldak		5600-SI	pipe & cable locator	8 ea. 1.5 volt "AA"	30 hrs	116+/- 03°	3	20°F to 150°F	20.5
Radiodetection		DrillTrack G2	receiver	6 "C" alkaline	12 hrs	8 & 33	8.8	-4°F to 220°F	39.3
	RD385	receiver	12 "AA" alkaline	30 hrs	8 & 33	5	-4°F to 220°F	25	
	SDS:	transmitter	1 "AA" alkaline	10 hrs	33	.6	-4°F to 220°F	8	
	Short range datasonde								
	MDS:	transmitter	2 "C" alkaline	20 hrs	8	1.8	-4°F to 220°F	15	
	Medium range datasonde								
	LDS:	transmitter	2 "C" alkaline	12 hrs	8	1.8	-4°F to 220°F	15	
	Long range datasonde								
	MDF:	transmitter	2 "C" alkaline	20 hrs	8 & 33	1.8	-4°F to 220°F	15	
	Medium range dual frequency datasonde								
	LDF:	transmitter	2 "C" alkaline	12 hrs	8 & 33	1.8	-4°F to 220°F	15	
	Long range dual frequency datasonde								
	G2M:	transmitter	2 "C" alkaline	20 hrs	8 & 33	1.8	-4°F to 220°F	15	
	Medium range dual frequency datasonde								
	G2L:	transmitter	2 "C" alkaline	12 hrs	8 & 33	1.8	-4°F to 220°F	15	
Long range dual frequency datasonde									
Schonstedt	TraceMaster	p&c	12 volts	60 hrs	0.01-3.0	3.9	-20°C to 70°C	29.5	
	Mac-51Bx	p&c and mag	18 volts	60 hrs	0.04-2.7	2.7	-25°C to 60°C	42.3	
	Ga-72Cd	mag	18 volts	60 hrs	0.04-2.7	2.5	-25°C to 60°C	34.5	
	Gx-52Cx	mag	18 volts	60 hrs	0.04-2.7	2.5	-25°C to 60°C	42.3	