AMERICAN PILEDRIVING EQUIPMENT, INC.

WORLD'S LARGEST PILEDRIVERS

FIELD CATALOG



APE RULES FOR DRIVING/EXTRACTING PILES

- NEVER STAND UNDER FOUNDATION EQUIPMENT.
- 2. START WITH PILES IN GOOD CONDITION.
- 3. PUT ALL CLAMP TEETH IN CONTACT WITH PILE.
- 4. DRIVE IN STEPS EIGHT FEET OR LESS.
- 5. KEEP SHEETS PLUMB.
- COME UP TO SPEED BEFORE DOING WORK.
- NO DANCING AVOID DENSIFICATION / REFUSAL.
- 8. DRIVE PAST OBSTACLES AND THEN GO BACK.
- 9. BACKHOE ON SITE TO REMOVE OBSTACLES.
- 10. LEAD WITH THE BALL OF THE SHEET PILE.
- 11. PROBE THE PILE IF IT APPEARS STUCK.
- 12. NEVER RUSH THE SHEET PILE FOREMAN.
- 13. SLOW AND PLUMB AND THE JOB WILL GET DONE.
- 14. MELTED INNER LOCKS = PILES OUT OF PLUMB.
- 15. LOW CLAMP PRESSURE MEANS JAW FAILURES.
- 16. WAIT FOR VIBRO TO GET TO FULL SPEED THEN GO TO WORK
- 17. DON'T OVER EXCAVATE LOWER THE RING.
- 18. LOOK AT THE JAWS DURING DRIVING.
- 19. BEWARE OF CRACKED OR BROKEN SHEETS.
- 20. IN SANDY SOILS DRIVE FASTER.
- 21. IN CLAY AMPLITUDE IS EVERYTHING.
- 22. LOW DRIVE PRESSURE MEANS EASY WORK.
- 23. HIGH PRESSURE MEANS FRICTION ON PILES.
- 24. OVER 4500 PSI MEANS BIGGER HAMMER NEEDED.
- 25. NO AMPLITUDE MEANS BIGGER HAMMER NEEDED.
- 26. CAISSONS NEED HEAVY WALL TO AVOID DEFLECTION.
- 27. CHECK CLAMP BOLTS EACH MORNING.
- 28. READ THE MANUAL KNOW YOUR MACHINE.
- 29. ATTACH WHIP LINE TO PILE WHEN PULLING.
- 30. KNOW YOUR LINE PULL.
- 31. EXTRACT STRAIGHT LOOK AT BOOM AND CABLE.
- 32. GIVE BOOM STOPS SOME ROOM.
- 33. STALLED ENGINE MEANS DIRTY FUEL FILTERS.
- 34. NEVER STAND UNDER FOUNDATION EQUIPMENT.
- 35. CLEAN ALL DIRT, GREASE, RUST SCALE, PAINT,
 GALVANIZATION, ETC. FROM PILE IN THE CLAMPING AREA
 BEFORE CLAMPING/ VIBRATING

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VIBRA	VIBRATORY SILVERBACK™ SPECS									
Models	60	300-2	300-2	300-2 300-4		300-6				
Power Unit	275	456	577	800	800	950				
Eccentric Moment	1,300 in-lbs (14.98 kg-m)	2,660 in-lbs (31 kg-m)	2,660 in-lbs (31 kg-m)	5,320 in-lbs (61.29 kg-m)	7,980 in-lbs (91.93 kgm)	7,980 in-lbs (91.93 kgm)				
Drive Force at Rated Frequency	61 tons (538 kN)	103 tons (915 kN)	129 tons (1,150 kN)	259 tons (2,300 kN)	309 tons (2,744 kN)	388 tons (3,449 kN)				
(VPM) Rated Frequency	0 - 1,850	0 - 1,650	0 - 1,850	0 - 1,850	0 - 1,650	0 - 1850				
Max Line Pull	56 tons (498 kN)	108 tons (961 kN)	108 tons (961 kN)	133 tons (1,183 kN)	185 tons (1,646 kN)	185 tons (1,646 kN)				
Max Bare Hammer Weight	5,857 lbs (2,657 kg)	9,480 lbs (4,300 kg)	9,480 lbs (4,300 kg)	16,850 lbs (7,643 kg)	21,200 lbs (9,616 kg)	21,200 lbs (9,616 kg)				
Throat Width	19 in (48 cm)	22.00 in (55 cm)	22.00 in (55 cm)	21.67 in (55 cm)	23.00 in (58 cm)	23.00 in (58 cm)				
Length	69 in (175 cm)	94.00 in (239 cm)	94.00 in (239 cm)	125.6 in (319 cm)	155.00 in (394 cm)	155.00 in (394 cm)				
Height w/o Clamp	54 in (378 cm)	71.40 in (181 cm)	71.40 in (181 cm)	81.62 in (207 cm)	81.62 in (207 cm)	81.62 in (207 cm)				

VIBRATORY DRIVER SPECS

Models	6	20	50	100	150T	200	200-6	
Power Unit	14	275	275	375	475	595	800	
Eccentric Moment	60 in-lbs (.69 kg-m)	900 in-lbs (10.37 kg-m)	4 - 5 -	2,200 in-lbs (25.35 kg-m)	7.1.1	4,400 in-lbs (50.69 kg-m)	6,600 in-lbs (76.04 kg-m)	
Drive Force at Rated Frequency	4 tons (37 kN)	35 tons (310 kN)	50 tons (447 kN)	85 tons (757 kN)	101 tons (894 kN)	170 tons (1,513 kN)	255 tons (2,270 kN)	
(VPM) Rated Frequency	0 - 2,200		0 - 1,650	0 - 1,650		0 - 1,650	0 - 1,650	
Max Line Pull	6 tons 28 tons (53 kN) (249 kN)		56 tons (498 kN)	45 tons (400 kN)	108 tons (961 kN)	133 tons (1,183 kN)	185 tons (1,646 kN)	
Max Bare Hammer Weight	720 lbs (327 kg)	2,510 lbs (1,139 kg)	4,550 lbs (2,064 kg)	5,900 lbs (2,676 kg)	8,500 lbs (3,856 kg)	12,760 lbs (5,788 kg)	18,900 lbs (8,573 kg)	
Throat Width	Throat Width 6.00 in (30 cm)		14.63 in (37 cm)	14.50 in (37 cm)	14.25 in (36 cm)	14.75 in (37 cm)	14.75 in (37 cm)	
Length	36.25 in (92 cm)	36.50 in (93 cm)	57.25 in (145 cm)	61.88 in (157 cm)	88.75 in (225 cm)	104.00 in (264 cm)	140.00 in (356 cm)	
Height w/o Clamp (Model 3 & 6 Incl. Clamp)	38.00 in (97 cm)	45.00 in (114 cm)	53.50 in (136 cm)	54.13 in (137 cm)	72.38 in (184 cm)	65.50 in (166 cm)	75.00 in (191 cm)	



VIBRATORY DRIVER/EXTRACTORS



400	600	600B
950	1200	1200
11,500 in-lbs (132.49 kg-m)	17,200 in-lbs (198.17 kg-m)	
298 tons	445 tons	445 tons
(2,648 kN)	(3,960 kN)	(3,960 kN)
0 - 1,350	0 - 1,350	0 - 1,350
234 tons	351 tons	451 tons
(2,082 kN)	(3,123 kN)	(4,012 kN)
34,010 lbs	45,225 lbs	59,000 lbs
(15,427 kg)	(20,514 kg)	(26,762 kg)
33.00 in	37.00 in	37.88 in
(84 cm)	(94 cm)	(96 cm)
151.00 in	183.50 in	183.50 in
(383 cm)	(466 cm)	(466 cm)
106.75 in	108.19 in	127.07 in
(271 cm)	(275 cm)	(323 cm)



VARIABLE MOMENT VIBRATORY DRIVER/EXTRACTORS

	120VM	170VM	250VM	300VM*
Eccentric Moment	1,600 in-lbs	2,250 in-lbs	4,500 in-lbs	4532 in-lbs
	(18.43 kg-m)	(25.92 kg-m)	(51.85 kg-m)	(52 kg-m)
Drive Force	95 tons	134 tons	269 tons	284 tons
	(849 kN)	(1,195 kN)	(2,389 kN)	(2,524 kN)
Frequency (VPM) Maximum	0 - 2,050	0 - 2,050	0 - 2,050	0 - 2,100
Max Line Pull	81 tons	81 tons	99 tons	69 tons
	(721 kN)	(721 kN)	(881 kN)	(614 kN)
Max Bare Hammer	7,500 lb	8,900 lb	15,400 lb	17,576 lb
Weight	(3,402 kg)	(4,037 kg)	(6,985 kg)	(7,643 kg)
Throat Width	14.00 in	14.00 in	14.00 in	19.50 in
	(36 cm)	(36 cm)	(36 cm)	(50 cm)
Length	69.00 in	69.00 in	69.00 in	99.75 in
	(175 cm)	(175 cm)	(175 cm)	(253 cm)
Height w/o Clamp	77.00 in	77.00 in	102.00 in	102.00 in
	(196 cm)	(196 cm)	(259 cm)	(259 cm)

APE Variable Moment Technology lets our driver/extractors shine in jobs with vibration sensitive requirements. APE Variable Moment Technology is teamed with all the special features available with the full line of APE Vibratory Driver/Extractors.

- Gun drilled top plate and manifolds eliminate unnecessary hydraulic hoses.
- O-ring sealed gearbox makes transition to underwater operations easy.
- Vegetable hydraulic oil reduces environmental impact and fines if a spill occurs.
- · Long term warranty protection





EXCAVATOR MOUNTED VIBRO





EXCAVATOR MOUNTED VIBRATORY DRIVER/EXTRACTORS									
	15E	20E	50E	60E*	100E	64X			
Eccentric	600 in-lbs	900 in-lbs	1,300 in-lbs	1,245 in-lbs	2,200 in-lbs	781 in-lbs			
Moment	(6.91 kgm)	(10.37 kgm)	(14.98 kgm)	(14.35 kgm)	(25.35 kgm)	(9.00 kgm)			
Drive Force	23 tons	35 tons	50 tons	61 tons	85 tons	30 tons			
	(206 kN)	(310 kN)	(447 kN)	(538 kN)	(757 kN)	(269 kN)			
(VPM) Rated Frequency			0 - 1,650 0 - 1,850		0 - 1,650	0 - 1,650			
Max Line Pull	9 tons	18 tons	18 tons	56 tons	44 tons	32 tons			
	(80 kN)	(160 kN)	(160 kN)	(498 kN)	(391 kN)	(285 kN)			
Max Bare Hammer Weight	1,690 lb (767 kg)	2,540 lb (1,152 kg)	3,940 lb (1,787 kg)	5,857 lb (2,657 kg)	4,840 lb (2,195 kg)	4,650 lb (2,109 kg)			
Throat Width	9.63 in	12.38 in	14.00 in	19.00 in	14.50 in	13.75 in			
	(24 cm)	(31 cm)	(36 cm)	(48 cm)	(37 cm)	(35 cm)			
Length	36.50 in	36.50 in	57.25 in	69.00 in	57.00 in	70.00 in			
	(93 cm)	(93 cm)	(145 cm)	(175 cm)	(145 cm)	(178 cm)			
Height w/o	40.13 in	47.88 in	49.13 in	87.00 in	56.50 in	42.50 in			
Clamp	(102 cm)	(122 cm)	(125 cm)	(221 cm)	(144 cm)	(108 cm)			

LOW HEADROOM VIBRATORY DRIVER/EXTRACTORS

	150	200	200-6
Eccentric Moment	2,200 in-lbs	4,400 in-lbs	6,600 in-lbs
	(25.35 kg-m)	(50.69 kg-m)	(76.04 kg-m)
Drive Force	85 tons	170 tons	255 tons
	(756 kN)	(1,513 kN)	(2,270 kN)
Max Frequency (VPM)	0 - 1,650	0 - 1,650	0 - 1,650
Max Line Pull	Consult	Consult	Consult
	Factory	Factory	Factory
Max Bare Hammer Weight	Consult	Consult	Consult
	Factory	Factory	Factory
Throat Width	Consult	Consult	Consult
	Factory	Factory	Factory
Length	Consult	Consult	Consult
	Factory	Factory	Factory
Height w/o Clamp	Consult	Consult	Consult
	Factory	Factory	Factory







LOW HEADROOM & TANDEM DRIVER/EXTRACTORS





TANDEM VIBRATORY DRIVER/EXTRACTORS

	50	100	150	200	400	600	
	Tandem	Tandem	Tandem	Tandem	Tandem	Tandem	
	Low	Low	Low	Low	11' Quad	15' Quad	
	Headroom	Headroom	Headroom	Headroom	Clamp	Clamp	
Eccentric Moment	2,600 in-lbs (29.96 kg-m)	4,400 in-lbs (50.69 kg-m)	4,400 in-lbs (50.69 kg-m)	8,800 in-lbs (101.39 kg-m)	23,000 in-lbs (264.99 kg-m)	34,400 in-lbs (396.33 kg-m)	
Drive	101 tons	170 tons	181 tons	340 tons	595 tons	890 tons	
Force	(949 kN)	(1,513 kN)	(1,606 kN)	(3,026 kN)	(5,294 kN)	(7,918 kN)	
(VPM) Max Frequency	0 - 1,650 0 - 1,650		0 - 1,700	0 - 1,650	0 - 1,350	0 - 1,350	
Pile Clamping Force	Consult Factory			Consult Factory	Consult Factory	Consult Factory	
Max Line	112 tons	186 tons	216 tons	266 tons	468 tons	702 tons	
Pull	(996 kN)	(1,655 kN)	(1,922 kN)	(2,366 kN)	(4,164 kN)	(6,245 kN)	
Total Setup	Consult	Consult	Consult	Consult	Consult	Consult	
Weight	Factory	Factory	Factory	Factory	Factory	Factory	
Max	Consult	Consult Factory	Consult	Consult	Consult	Consult	
Pressure	Factory		Factory	Factory	Factory	Factory	
Length	Consult	Consult	Consult	Consult	Consult	Consult	
	Factory	Factory	Factory	Factory	Factory	Factory	
Width	Consult	Consult	Consult	Consult	Consult	Consult	
	Factory	Factory	Factory	Factory	Factory	Factory	
Height with	Consult	Consult	Consult	Consult	Consult	Consult	
Clamp	Factory	Factory	Factory	Factory	Factory	Factory	

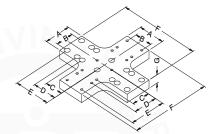
DRIVER/EXTRACTOR ACCESSORIES

Specification	Weight	Α	В
90 Degree Turn Plate	600 lb	12 in	8 in
	(272 kg)	(30.48 cm)	(20.3 cm)
4' Extension	2,500 lb	37 in	11 in
	(1,134 kg)	(94 cm)	(28 cm)
8' Extension	4,000 lb	37 in	11 in
	(1,814 kg)	(94 cm)	(28 cm)
Caisson Beam to	1,200 lb	4.94 in	8.00 in
Attachment Adapter	(680 kg)	(12.5 cm)	(20.3 cm)

HYBRID EXTENSION
CALLED THE
CALIFORNIA STINGER
FOR TIGHT WORKING
DIMENSIONS.



90 DEGREE TURN PLATE.







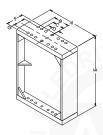
ATTACHMENTS/ACCESSORIES

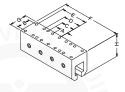
С	D	E	F	G	Н
8.25 in (21 cm)	11 in (28 cm)	16.5 in (42 cm)	37 in (94 cm)	3.50 in (8.9 cm)	-
8.25 in (21 cm)	4.94 in (12.55 cm)	48 in (122 cm)	12 in (30.5 cm)	8 in (20.3 cm)	-
8.25 in (21 cm)	4.94 in (12.55 cm)	96 in (243.8 cm)	12 in (30.5 cm)	8 in (20.3 cm)	-
8.25 in (21 cm)	11 in (28 cm)	16.5 in (42 cm)	37 in (94 cm)	11.5 in (29.21 cm)	14 in (35.56 cm)

4' & 8' EXTENSION

CAISSON BEAM TO ATTACHMENT ADAPTER

BEAM STIFFENER











M	MODEL 20, 50 & 150 UNIVERSAL CLAMPS										
	Weight	Piston Dia.	Piston Stroke	Cyl. Force	Clamp Force	Α	В	С	D	Е	
20	790 lb 358kg	5 in 127mm	2.25 in 57mm	88 kips 391kN	176 kips 782kN	29.63 in 752mm		28.63 in 727mm	11.75 in 298mm	8.56 in 217mm	
50	1,350 lb 612kg	8 in 203mm	2.25 in 57mm	226 kips 1005kN		44 in 1117 mm	12 in 304mm	35 in 889mm	12.25 in 311mm	10.25 260mm	
150	1,540 lb	8 in	2.25 in	226 kips	452 kips	44 in	12 in	35 in	12.88 in	10.25	



698kg

203mm

150







327mm

260mm

889mm

MODEL 20

MODEL 50

MODEL 150

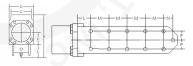
MODEL 200

MODEL 200, 300, & 350 UNIVERSAL CLAM

	Weight	Piston Dia.	Piston Stroke	Cyl. Force	Clamp Force	A	В	С	D	E	
20	2,200 lb 998kg	8 in 203mm			452 kips 2010kN		11.75 in 298 mm	41 in 1041mm	18.25 in 463mm		
30	2850 lbs 1295kg	10 in 254mm			784 kips 3488 kN	57 in 1450mm	45.25 in 1200mm		15 in 381mm	35.25 in 819mm	
35	3650 lbs 1655kg	10 in 254mm	3 in 76mm		784 kips 3488kN	63 in 1600mm	51.75 in 1314mm		14.5 in 368mm	35.25 in 895mm	



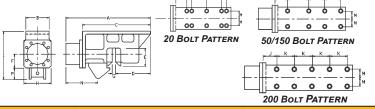




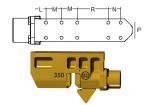


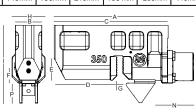


F	G	н	1	J	К	L	M	N	Р
4.62 in (117 mm)	2.12 in (54 mm)	6 in (152 mm)	13.5 in (343 mm)	4.62 in (117 mm)	2.75 in (70 mm)	8.25 in (209 mm)	4 in (101 mm)	7 in (178 mm)	5 in (127 mm)
7.19 in (182 mm)	1.44 in (37 mm)	14 in (356 mm)	22.38 in (568 mm)	5 in (127 mm)	11in (279 mm)	8.25 in (209 mm)	4 in (101 mm)	15.17 in (385 mm)	5 in (127 mm)
7 in (178 mm)	1.44 in (37 mm)	14 in (356 mm)	27.75 in (705 mm)	5 in (127 mm)	11 in (279 mm)	8.25 in (209 mm)	4 in (101 mm)	15 in (383 mm)	5 in (127 mm)



PS F K P R G н J L M N 7 in 1.69 in 15 in 29.88 in 5.75 in 8.25 in 4 in 21 in 5 in 178 mm 44 mm 381 mm 759 mm 146 mm 209 mm 102 mm 533 mm 127 mm 2.5 in 5.88 in 8.25 in 4 in 24.13 in 22.63 in 10.88 in 9 in 7.38 in 4.28 in 64 mm 229 mm 149 mm 210 mm 109 mm 102 mm 575 mm 276 mm 187 mm 613 mm 5.88 in 2.6 in 15 in 24.75 in 10.5 in 5.875 in 6.125 in 8.25 in 6.5 in 8 in 16.5 in 267mm 149mm 66mm 381mm 629mm 149mm 156mm 210mm 165 mm 203mm 419mm





MODEL 350

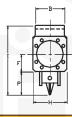
Note: All technical specifications are subject to change without notice.

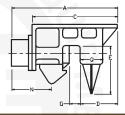
MODEL 50 & 150 DUNCE CLAMPS

	Weight	Piston Dia.	Piston Stroke	Cyl. Force	A	В	С	D	E	F	
50	1,350 lb (612 kg)	8 in (20.3 cm)	2.25 in (5.7 cm)	226 kips (1,005 kN)	44 in (111.7 cm)	12 in (30.4 cm)	35 in (88.9 cm)	12.25 in (31.1 cm)	10.25 in (26.0 cm)	7 in (17.8 cm)	
150	1,540 lb (698 kg)	8 in (20.3 cm)	2.25 in (5.7 cm)	226 kips (1,005 kN)	44 in (111.7 cm)	12 in (30.4 cm)	35 in (88.9 cm)	12.88 in (32.7 cm)	10.25 (26.0 cm)	7 in (17.8 cm)	

Model 150 Dunce

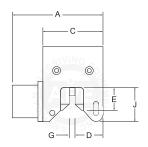


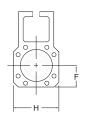


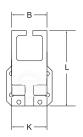


MODEL 100 & 200 CAISSON CLAMPS

	Weight	Piston Dia.	Piston Stroke	Cyl. Force	A	В	С
100	1,110 lb (498 kg)	8 in (203 mm)	2.25 in (57 mm)	226 kips (1,005 kN)	27.63 in (701 mm)	11 in (279 mm)	18.63 in (473 mm)
200	1,340 lb (608 kg)	8 in (203 mm)	2.25 in (57 mm)	226 kips (1,005 kN)	31.88 in (809 kN)	11 in (279 mm)	22.88 in (581 mm)



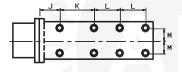








G	н	1	J	К	L	M	N	Р	Q
1.75 in	14 in	22.75 in	5 in	11 in	8.25 in	4 in	15 in	5 in	11.5 in
(44.5	(356	(57.7	(12.7	(27.9	(20.9	(10.1	(38.3	(12.7	(29.2
cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)
1.75 in	14 in	27.75 in	5 in	11 in	8.25 in	4 in	15 in	5 in	11.5 in
(44.5	(35.6	(70.5	(12.7	(27.9	(20.9	(10.1	(38.3	(12.7	(29.2
cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)	cm)



D	ш	F	G	Н	J	К	L	
6 in (152 mm)		7.25 in (184 mm)					23.38 in (594 mm)	
10.81 in (274 mm)	6.63 in (168 mm)	7.25 in (184 mm)			10.88 in (276 mm)		23.38 in (594 mm)	





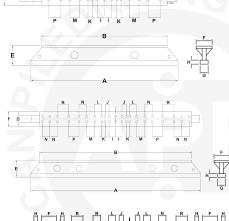
STANDARD CAISSON BEAMS Minimum Caisson Diameter: 21 inch (0.53 m)

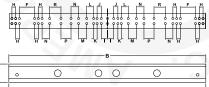
	Max Dia. Caisson	Weight	Α	В	С	D	E	F	G	
5 ft	33.15 in (0.84 m)	1,000 lb (454 kg)	60 in (1.52 m)	60 in (1.52 m)	8 in (20.3 cm)	5.9 in (15 cm)	13.41 in (34 cm)	12 in (30.5 cm)	-	
8 ft	69.15 in (1.75 m)	1,500 lb (680 kg)	96 in (2.44 m)	73.5 in (1.87 m)	8 in (20.3 cm)	5.9 in (15 cm)	13.41 in (34 cm)	12 in (30.5 cm)	-	
11 ft	106.00 in (2.69 m)	3,030 lb (1,374 kg)	132 in (3.35 m)	120 in (3.04 m)	8 in (20.3 cm)	5.9 in (15 cm)	13.41 in (34 cm)	12 in (30.5 cm)	-	
13 ft	129.5 in (3.29 m)	3,593 lb (1,630 kg)	156 in (3.96 m)	156 in (3.96 m)			18 in (45.7 cm)	13.5 in (34.3 cm)	5.9 in (150 mm)	
15 ft	153.5 in (3.9 m)	8889 lb (4032 kg)	180 in (4.57 m)	164 in (4.165 m)	18 in (45.72 cm)	18 in (45.72 cm)	30.04 in (76.30 cm)	31 in (78.74 cm)	5.9 in (150 mm)	
17 ft	177.5 in (4.51 m)	8368.7 lb (3800.5 kg)	204 in (5.18 m)	184 in (4.674 m)	16 in (40.64 cm)	16 in (40.64 cm)	40 in (101.6 cm)	31 in (78.74 cm)	5.9 in (150 mm)	

5FT & 8FT BEAM

11FT BEAM

13FT BEAM



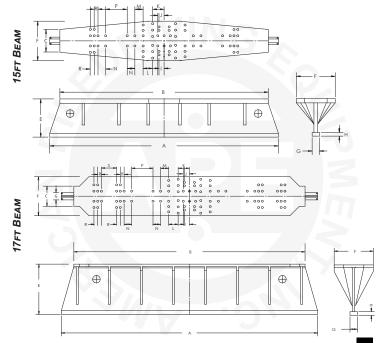




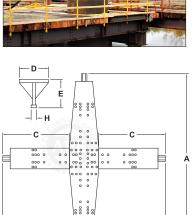


CAISSON BEAMS

Н	1	J	K	L	М	N	Р	R	S
2.905 in (73.8 mm)	4.94 in (125 mm)	3.31 in (84 mm)	2.75 in (70 mm)	5.5 in (140 mm)	6.5 in (165 mm)	6 in (152 mm)	8 in (203 mm)	-	
2.905 in (73.8 mm)	4.94 in (125 mm)	3.31 in (84 mm)	2.75 in (70 mm)	5.5 in (140 mm)	6.5 in (165 mm)	6 in (152 mm)	8 in (203 mm)	-	
2.905 in (73.8 mm)	4.94 in (125 mm)	3.31 in (84 mm)	2.75 in (70 mm)	5.5 in (140 mm)	6.5 in (165 mm)	6 in (152 mm)	8 in (203 mm)	9 in (229 mm)	
2.905 in (73.8 mm)	5 in (127 mm)	3.31 in (84 mm)	2.75 in (70 mm)	5.5 in (140 mm)	6.5 in (165 mm)	6 in (152 mm)	8 in (203 mm)	9 in (229 mm)	
2.91 in (73.9 mm	4.00 in (101.6 mm)	4.94 in (125.73 mm)	9 in (228.6 mm)	7.5 in (190.5 mm)	6.5 in (165.1 mm)	6 in (152.4 mm)	17 in (431.8 mm)	3 in (76.2 mm)	
2.91 in (73.9 mm	4.00 in (101.6 mm)	4.94 in (125.73 mm)	9 in (228.6 mm)	7.5 in (190.5 mm)	6.5 in (165.1 mm)	6 in (152.4 mm)	17 in (431.8 mm)	3 in (76.2 mm)	12 in (304.8 mm)







QUAD BEAM





	Max Dia. Cassion	Weight	Α	В	С	
10 ft	93.5 in (2.37 m)	7000 lbs (3175 kg)	120 in (304.8 cm)	118 in (300 cm)	49 in (124.5 cm)	
11 ft	106.00 in (2.69 m)	9,500 lb (4,309 kg)	134 in (340 cm)	136 in (345 cm)	53 in (134.6 cm)	
12 ft	117.5 in (2.98 m)	8650 lbs (3920 kg)	144 in (365.8 cm)	144 in (365.8 cm)	57.81 in (146.8 cm)	
13 ft	129.5 in (3.29 m)	13570 lbs (6155 kg)	156 in (386 cm)	156 in (386 cm)	62.5 in (158.8 cm)	
15 ft	153.5 in (3.9 m)	13,000 lb (5,896 kg)	180 in (457.2 cm)	184 in (467.3 cm)	75 in (190.5 cm)	

206 in

(523.2 cm)

177.5 in (4.51 m) 15,000 lb (6,803 kg) 89 in

(226 cm)

208 in

(528.3 cm)

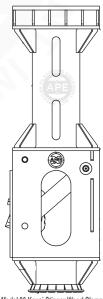
QUAD BEAM|WOOD/CONCRETE CLAMP



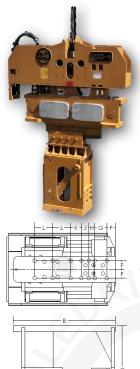


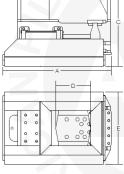


D	E	Н
22 in	24 in	6 in
(55.9 cm)	(61 cm)	(152 mm)
31 in	21 in	6 in
(78.7 cm)	(53.3 cm)	(152 mm)
28.38 in	24 in	6 in
(72.1 cm)	(61 cm)	(152 mm)
31 in	30 in	6 in
(78.7 cm)	(76.2 cm)	(152 mm)
31 in	30 in	6 in
(78.7 cm)	(76.2 cm)	(152 mm)
31 in	40 in	6 in
(78.7 cm)	(101.6 cm)	(152 mm)

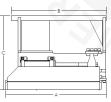


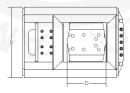
Model 20 Kauai Stinger Wood Clamp

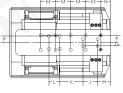




Model			Wei	ght			
C102			3250 1475				
20 Hybrid			3800 1725				
1	Α		Е	3	С		
C102	49.75 in 1264 mm		46.7 1188		40.5 in 1042 mm		
20 Hybrid	55.25 in 1403 mm		52.2 1327		40.5 in 1042 mm		
- 1	K		L		М		
C102	6.06 in 154 mm		4.94 125			8.25 in 210 mm	
20 Hybrid	8.25 in 210 mm		7.13 181		2	8 in 203 mm	
Model			Wei				
20			5900 lbs 2675 kg				
25			6500 lbs 2950 kg				
32			9100 4130				
32 New			13200 5990				
1	Α		В	С	\leq	D	
20	44 in 1118 mm		2.75 in 86 mm	44 i 1118 r	n nm	20 in 508 mm	
25	56.75 in 1441 mm		7.84 in :15 mm	52.25 1327 i		25.5 in 648 mm	
32	62.75 in 1594 mm	53.55 in 1360 mm 54.75 1391				32 in 813 mm	
32 New	64.25 in 1632 mm		4.19 in 76 mm	62.25 1581 i	in mm	28.31 in 719 mm	







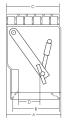


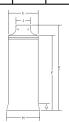
WOOD/CONCRETE CLAMP

Pi	ston Diamet	er	Cylinder Force				
	4 in 102 mm		30.5 Short tons 271 kN				
	4 in 102 mm		30.5 Short tons 271 kN				
D	E	F	G	Н	J		
15.5 in 394 mm	33 in 838 mm	4 in 102 mm	1.88 in 48 mm	3.5 in 89 mm	5.5 in 140 mm		
20 in 508 mm	38.5 in 978 mm	4 in 102 mm	1.88 in 48 mm	3.5 in 89 mm	5.38 in 137 mm		
N	Р	R	R	S	Т		
5.75 in 146 mm	4.31 in 110 mm	1.81 in 46 mm	1.81 in 46 mm	10.94 in 278 mm	6 in 152 mm		
12.75 in 324 mm	6 in 152 mm	1	1	1	1		

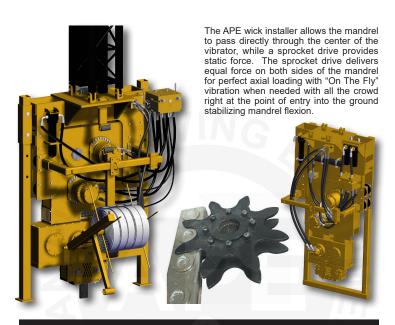
324 II	324 mm 152 mm									
F	iston E	iamete	r			Cylinde	r Force			
	7 178	in mm			67 Short Tons 600 kN					
	7 in 178 mm				67 Short Tons 600 kN					
	7 in 178 mm				67 Short Tons 600 kN					
7 in 178 mm					67 Short Tons 600 kN					
E	F	G	Н	J	К	L	М	N	Р	
71.5 in 1816 mm	61.5 in 1562 mm	6.0 in 152 mm	32 in 813 mm	14 in 356 mm	26.75 in 679 mm	7 in 178 mm	8.25 in 210 mm	4 in 102 mm	1	
84.25 in 2140 mm	74 in 1880 mm	6.25 in 159 mm	35 in 889 mm	14 in 356 mm	30.75 in 781 mm	7.19 in 183 mm	8.25 in 210 mm	4 in 102 mm	1	
86.25 in 2191 mm	74 in 1880 mm	6.0 in 152 mm	43.33 in 1101 mm	14 in 356 mm	38.25 in 972 mm	4.35 in 111 mm	8.25 in 210 mm	4 in 102 mm	6.5 in 165 mm	
88.25 in 2242 mm	74 in 1880 mm	6.30 in 160 mm	43.38 in 1102 mm	14 in 356 mm	38.75 in 984 mm	1	/	/	/	











BOTTOMDRIVE™ WICK DRAIN						
	28	100	200			
Static (Crowd) Force	28 US tons	27.8 US tons	27.8 US tons			
	(247 kN)	(247 kN)	(247 kN)			
Dynamic Force @ 1650 vpm		23.7 US tons (211 kN)	56 US tons (498 kN)			
Combined Static/	-	51.5 US tons	83.8 US tons			
Dynamic Force		(458 kN)	(746 kN)			
Operating Frequency	-	0 - 1,650 vpm	0-1, 650 vpm			
Suspended Weight	5,623 lb	8,500 lb	10,780 lb			
	(2,550.55 kg)	(3,855 kg)	(4,889 kg)			
Maximum Pressure	5,500 psi	5,500 psi	5,500 psi			
	(380 bars)	(380 bars)	(380 bars)			
Length	70.94 in	84 in	84 in			
	(180 cm)	(213 cm)	(213 cm)			
Width	47 in	47 in	47 in			
	(119 cm)	(119 cm)	(119 cm)			
Height	91.5 in	109 in	120 in			
	(232.4 cm)	(276.8 cm)	(304.8 cm)			



WICK DRAIN







Note: All technical specifications are subject to change without notice.

	TOP DRIVE AUGERS									
	Model	12K	20K	50BB						
	Torque ft-lbs (kg-m)	12,000 Ft-lbs. (1,659 kgm)	20,000 Ft-lbs. (2,765 kgm)	9,688 per 1,000 psi (1,339.41 per 69 bar)						
Low	Max Pressure	4,500 psi (310 bar)	4,100 psi (283 bar)	5,800 psi (399.9 bar)						
Speed High	Rotation Speed	35 rpm	30 rpm	36 rpm						
Torque	Max Flow gpm (lpm)	30 gpm (114 lpm)	46 gpm (174 lpm)	120 @ 3.33 gal/rev (454 @ 12.6 lit/rev)						
	Max Horse Power	80 hp ()	110 hp (82 kW)	406 hp (302.75 kW)						
	Torque ft-lbs (kg-m)	N/A	N/A	4,844 per 1,000 psi (669.71 per 69 bar)						
High	Max Pressure	N/A	N/A	4,570 psi (315.09 bar)						
Speed Low	Rotation Speed	N/A	N/A	72 rpm						
Torque	Max Flow gpm (Ipm)	N/A	N/A	120 @ 1.66 gal/rev (454 @ 6.28 lit/rev)						
	Max Horse Power	N/A	N/A	320 hp (238.62 kW)						
	Crowd Force	Contact APE	Contact APE	150,000 lb (68,038.86 kg)						
	Suspended Weight	1,060 lbs (481 kg)	1,130 lbs (513 kg)	5,700 lb (2,585.48 kg)						
		18 in	(513 kg) 18 in	(2,565.46 kg) 25 in						
	Length	(45 cm)	(45 cm)	(63.5 cm)						
	Width of Lead Section	Contact APE	Contact APE	26 in (66.04 cm)						
	Shipping Width Overall	20 in (49 cm)	20 in (49 cm)	48 in (121.92 cm)						
	Height	59 in	59 in	68 in						
		(149 cm) 3 in	(149 cm) 3 in	(173 cm) 3 in						
	ID of Output Shaft	(7.62 cm)	(7.62 cm)	(7.62 cm)						
	ID of Rotary Joint	3 in (7.62 cm)	3 in (7.62 cm)	3 in (7.62 cm)						
	API Adapters (type)	3 inch Hex	3 inch Hex	3 inch, 4 inch						
	Lead Adapters (type)	Contact APE	Contact APE	8 x 26, 8 x 32						

Custom Available





TOP DRIVE AUGER

75BB	80BB	100BB
12,150 per 1,000 psi (1,679.8 per 69 bar)	14,572 per 1,000 psi (2,014.65 per 69 bar)	
5,800 psi	5,500 psi	5,500 psi
(399.9 bar)	(379.21 bar)	(379.21 bar)
30 rpm	30 rpm	30 rpm
120 @ 4.17 gal/rev	125 @ 5 gal/rev	140 @ 5 gal/rev
(454 @ 15.79 lit/rev)	(473 @ 18.93 lit/rev)	530 @ 18.93 lit/rev
508 hp	401 hp	401 hp
(378.72 kW)	(299.03 kW)	(299.03 kW)
6,075 per 1,000 psi	7,266 per 1,000 psi	7,266 per 1,000 psi
(839.9 per 69 bar)	(1,004.56 per 69 bar)	(1,004.56 per 69 bar)
5,800 psi	4,500 psi	4,500 psi
(400 bar)	(310.26 bar)	(310.26 bar)
60 rpm	61 rpm	61 rpm
120 @ 2.09 gal/rev	125 @ 2.5 gal / rev	140 @ 2.5 gal / rev
(454 @ 7.91 lit/rev)	(473 @ 9.46 lit / rev)	(530 @ 9.46 lit / rev)
406 hp	328 hp	465 hp
(302.75 kW)	(244.59 kW)	(348 kW)
150,000 lb	150,000 lbs	150,000 lbs
(68,038.86 kg)	(68,038.86 kg)	(68,038.86 kg)
3,130 lb	4,630 lbs	5,630 lbs
(1,419.74 kg)	(2,100.13 kg)	(2,554 kg)
25 in	25 in	25 in
(63.5 cm)	(63.5 cm)	(63.5 cm)
26 in	26 in	26 in
(66.04 cm)	(66.04 cm)	(66.04 cm)
48 in	48 in	48 in
(121.92 cm)	(121.92 cm)	(121.92 cm)
68 in	68 in	68 in
(173 cm)	(173 cm)	(173 cm)
3 in	3 in	3 in
(7.62 cm)	(7.62 cm)	(7.62 cm)
3 in	3 in	3 in
(7.62 cm)	(7.62 cm)	(7.62 cm)
3 inch, 4 inch	3 inch, 4 inch	3 inch, 4 inch
8 x 26, 8 x 32 Custom Available	8 x 26, 8 x 32 Custom Available	





RADIAL PISTON MOTOR HAS HIGHEST VOLUMETRIC AND MECHANICAL EFFICIENCIES WITH ITS OUTSIDE RADIAL PISTON DESIGN.

OVERSIZED SHAFT BEARINGS AND LOCKNUT RETENTION OFFERS THE HIGHEST VERTICAL AND RADIAL LOADS IN THE INDUSTRY.







HD DRIVERS

	Туре	HD40	HD50	HD50L	HD70	HD80	
	Torque ft-lbs (kg-m)	7,119 per 1,000 psi (641 per 69 bar)	7,700 per 1,000 psi (1,065 per 69 bar)	7,700 per 1,000 psi (1,065 per 69 bar)	12,122 per 1,000 psi (1,676 per 69 bar)	14,528 per 1,000 psi (2,009 per 69 bar)	
Low	Max Pressure	5,000 psi (345 bar)	4,500 psi (310 bar)	4,500 psi (310 bar)	4,640 psi (320 bar)	5,075 psi (350 bar)	
Speed High	Rotation Speed	105 rpm	38 rpm	38 rpm	30 rpm	29 rpm	
Torque	Max Flow gpm (lpm)	55 @1.11 gal/rev (208 @ 4.20 lit/rev)	100 @ 2.65 gal/rev (379 @ 10 lit/rev)	100 @ 2.65 gal/rev (379 @ 10 lit/rev)	120 @ 3.96 gal/rev (454 @ 14.99 lit/rev)	145 @ 4.99 gal/rev (549 @ 18.89 lit/rev)	
	Max Horse Power	240 hp (186kW)	180 hp (134 kW)	180 hp (134 kW)	325 hp (242 kW)	429 hp (320 kW)	
	Torque ft-lbs (kg-m)	3,560 per 1,000 psi (420 per 69 bar)	N/A	N/A	5,758 per 1,000 psi (796 per 69 bar)	7,267 per 1,000 psi (1005 per 69 bar)	
High	Max Pressure	3,000 psi (207 bar)	N/A	N/A	3,000 psi (207 bar)	5,075 psi (350 bar)	
Speed	Rotation Speed	210 rpm	N/A	N/A	61 rpm	58 rpm	
Low Torque	Max Flow gpm (lpm)	55 @ .55 gal/rev 208 @ 2.61 lit/rev)	N/A	N/A	120 @ 1.66 gal/rev (454 @ 6.28 lit/rev)	145 @ 2.46 gal/rev (549 @ 9.31 lit/rev)	
	Max Horse Power	96 hp (72 kW)	N/A	N/A	210 hp (157 kW)	429 hp (320 kW)	
Wei	ight (w/Clamp) * = No Clamp	4800 lb (2,177 kg)	4,725 lb (2,143 kg)	3,800 lb* (1,723 kg*)	8,640 lb (3,919 kg)	8,440 lb (3,828 kg)	
	Depth	29.5 in (749 mm)	25 in (635 mm)	25 in (635 mm)	24 in (610 mm)	24 in (610 mm)	
	Width	42 in (1,067 mm)	53 in (1,499 mm)	53 in (1,499 mm)	61 in (1,549 mm)	61 in (1,549 mm)	
	Height *= No Clamp	70 in (1,778 mm)	89 in (2,261 mm)	59 in* (1,499 mm)	99 in (2,515 mm)	97 in (2,464 mm)	
Minimum Excavator Capacity Example Listed		44,000 lb (19,958 kg) CAT 320D	44,000 lb (19,958 kg) CAT 320D	44,000 lb (19,958 kg) CAT 320D	56,440 lb (25,601 kg) CAT 320E	56,440 lb (25,601 kg) CAT 320E	







HD150	HD200	HD375	HD500
26,727 per 1,000 psi (3,695 per 69 bar)	40,029 per 1,000 psi (5,534 per 69 bar)	79,757 per 1,000 psi (11,027 per 69 bar)	93,681 per 1,000 psi (12,961 per 69 bar)
5,000 psi (345 bar)	5,000 psi (345 bar)	4,700 psi (324 bar)	5,400 psi (372 bar)
27 rpm	18 rpm	6.5 rpm	8 rpm
250 @ 9.31 gal/rev (946 @ 35.24 lit/rev)	250 @ 13.94 gal/rev (946 @ 52.77 lit/rev)	225 @ 34.6 gal/rev (852 @ 131.1 lit/rev)	237 @ 29.6 gal/rev (897 @ 112.1 lit/rev)
700 hp (522 kW)	700 hp (522 kW)	464 hp (346 kW)	746 hp (556 kW)
N/A	N/A	35,957 per 1,000 psi (4,971 per 69 bar)	N/A
N/A	N/A	4700 psi (324 bar)	N/A
N/A	N/A	9 rpm	N/A
N/A	N/A	130 @ 14.4 gal/rev (492.1 @ 54.6 lit/rev)	N/A
N/A	N/A	290 hp (216 kw)	N/A
11,850 lb (5,374 kg)	14,500 lb (6,576 kg)	17,500 lb (7938 kg)	Consult Factory
24 in (610 mm)	29.5 in (749 mm)	53.2 in (1,352 mm)	92.2 in (2,343 mm)
61 in (1,549 mm)	70 in (1,778 mm)	86 in (2,184 mm)	81 in (2,073 mm)
109 in (2,769 mm)	120 in (3,048 mm)	137 in (3,480 mm)	117 in (2,962 mm)
117,500 lb (53,297 kg)	156,000 lb (70,760 kg)	Consult Factory	Consult Factory















CAT 374D

CAT 349E







HYDRAULIC IMPACT

Туре		Low Headroom				hore	
Model	4-2	4-2 5-2 6-2 7-3		40-4	60-4		
Ram Weight	8,000 lbs (3,628 kg)	10,000 lbs (4,536 kg)	12,000 lbs (5,443 kg)	14,000 lbs (6,350 kg)	80,000 lbs (36,287 kg)	120,000 lbs (54,431 kg)	
Rated Energy	16,000 ft-lbs (21.69 kNm)	20,000 ft-lbs (27.12 kNm)	24,000 ft-lbs (32.54 kNm)	42,000 ft-lbs (56.94 kNm)	320,000 ft-lbs (433.86 kNm)	480,000 ft-lbs (650.79 kNm)	
Stroke at Rated Energy	24 in (60.96 cm)	24 in (60.96 cm)	24 in (60.96 cm)	36 in (91.44 cm)	48 in (121.92 cm)	48 in (121.92 cm)	
Blows Per Minute	45-75 min-max	45-75 min-max	45-75 min-max	30-65 min-max	30-65 min-max	30-65 min-max	
Weight w/o Insert	13,700 lb (6,214.22 kg)	15,200 lb (6,894.6 kg)	17,200 lb (7,801.79 kg)	20,500 lb (9,298.64 kg)	Varies with pile size	Varies with pile size	
Height	105 in (266.7 cm)	105 in (266.7 cm)	105 in (266.7 cm)	126 in (320.04 cm)	390 in (990.6 cm)	472 in (1,198.88 cm)	
Standard Lead Size	8"x26"	8"x26"	8"x26"	8"x26"	Offshore	Offshore	

HYDRAULIC IMPACT HAMMERS (HIH)





HAMMERS (HIH)

	Stan	dard			-5 Se	eries	
8-3	8-4	10-4	15-4	15-5	20-5	25-5	30-5
16,000 lbs	16,000 lbs	20,000 lbs	30,000 lbs	30,000 lbs	40,000 lbs	50,000 lbs	60,000 lbs
(7,257 kg)	(7,257 kg)	(9,072 kg)	(13,608 kg)	(13,608 kg)	(18,144 kg)	(22,680 kg)	27,215 kg)
48,000 ft-lbs	64,000 ft-lbs	80,000 ft-lbs	120,000 ft-lbs	150,000 ft-lbs	200,000 ft-lbs	250,000 ft-lbs	300,000 ft-lbs
(65.08 kNm)	(86.77 kNm)	(108.47 kNm)	(162.7 kNm)	(203 kNm)	(271 kNm)	(339 kNm)	(407 kNm)
36 in	48 in	48 in	48 in	60 in	60 in	60 in	60 in
(91.44 cm)	(121.92 cm)	(121.92 cm)	(121.92 cm)	(152.4 cm)	(152.4 cm)	(152.4 cm)	(152.4 cm)
30-65	30-65	30-65	30-65	25-55	25-55	25-55	25-55
min-max	min-max	min-max	min-max	min-max	min-max	min-max	min-max
22,500 lb	23,800 lb	27,800 lb	42,000 lb	46,000 lbs	56,000 lbs	72,000 lbs	82,000 lbs
(10,205.83 kg)	(10,795.5 kg)	(12,609.87 kg)	(19,050.88 kg)	(20,865 kg)	(25,401 kg)	(32,659 kg)	(37,194 kg)
126 in	144 in	144 in	175 in	234 in	252 in	270 in	288 in
(320.04 cm)	(365.76 cm)	(365.76 cm)	(444.5 cm)	(579.12 cm)	(640 cm)	(685.8 cm)	(731.5 cm)
8"x26"	8"x26"	8"x26"	8"x32"	8"x32"	8"x32"	8"x32"	



CONTROL PANEL WITH **TELEMATICS**



KIDNEY LOOP FILTRATION AND **HYDRAULIC** COOLING



CUSTOM BALL VALVES **FOR SERVICE**



COMPLETE TOOL SET MOUNTED IN DOOR PANEL



ADVANCED **HYDRAULIC** CONTROLLED **FAN DRIVE**

POWER UNIT TIER II & III SPECIFICATIONS								
Model 127 275 375 475 595 765 1050								1200
Engine Type	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar	Caterpillar
	C4.4 Tier III	C7 Tier III	C9 Tier III	C13 Tier III	C15 Tier III	C18 Tier II	C27 Tier II	C32 Tier II
Rated Horse Power	127 HP	275 HP	375 HP	475 HP	595 HP	765 HP	1050 HP	1,200 HP
	95 kW	205 kW	276 kW	354 kW	444 kW	570 kW	738 kW	895 kW
Rated Drive Pressure	2,500 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi
	172 bar	331 bar	331 bar	331 bar	331 bar	331 bar	331 bar	331 bar
Drive Flow	60 gpm	85 gpm	120 gpm	147 gpm	188 gpm	220 gpm	273 gpm	294 gpm
	227 lpm	322 lpm	454 lpm	556 lpm	712 lpm	833 lpm	1,033 lpm	1,113 lpm
Weight	4,750 lbs	11,000 lbs	12,600 lbs	13,800 lbs	19,000 lbs	19,000 lbs	22,500 lbs	23,000 lbs
	2,155 kg	4,990 kg	5,715 kg	6,260 kg	8,618 kg	8,618 kg	10,206 kg	10,433 kg
Length	99 in	116.5 in	126.5 in	127.5 in	151.75 in	151.75 in	169 in	169 in
	251 cm	296 cm	321 cm	324 cm	385 cm	385 cm	428 cm	428 cm
Width	45 in	58.75 in	68.5 in	73.5 in	82 in	82 in	87 in	87 in
	114 cm	149 cm	174 cm	187 cm	208 cm	208 cm	221 cm	221 cm
Height	66 in	83.5 in	82 in	92.25 in	94 in	94 in	103 in	103 in
	168 cm	212 cm	208 cm	234 cm	239 cm	239 cm	262 cm	262 cm

POWER	UNIT T	IER IV	SPEC	IFICAT	IONS		
Model	14	33	50	124	275	375	
Engine Type	Kohler CH440	Caterpillar C1.7 Tier IV	Caterpillar C2.2 Tier IV	Caterpillar C4.4 Tier IV	Caterpillar C7 Tier IV	Caterpillar C9B Tier IV	
Rated Horse Power	14 HP (10.5 kW)	33.5 HP (25 kW)	50 HP (37 kW)	124 HP (92 kW)	275 HP (205 kW)	375 HP (280 kW)	
Rated Drive Pressure	0 - 3,500 psi (241 bar)	0-2,500 psi (172 bar)	0 - 2,500 psi (172 bar)	0 - 2,500 psi (172 bar)	0 - 5,076 psi (350 bar)	0 - 5,076 psi (350 bar)	
Drive Flow	6 gpm (22 lpm)	20 gpm (76 lpm)	32 gpm (121 lpm)	60 gpm (227 lpm)	85 gpm (322 lpm)	120 gpm (454 lpm)	
Clamp Pressure	3,500 psi (241 bar)	Consult Factory	Consult Factory	Consult Factory	4,800 psi (331 bar)	4,800 psi (331 bar)	
Clamp Flow	6 gpm (23 lpm)	Consult Factory	Consult Factory	Consult Factory	10 gpm (38 lpm)	10 gpm (38 lpm)	
Engine Speed	3,000 rpm	2,800 rpm	1,800 rpm	2,200 rpm	1,800 rpm	1,800 rpm	
Weight	275 lb (125 kg)	1,500 lbs (680 kg)	2,900 lbs (1,315 kg)	4,750 lb (2,155 kg)	14,000 lb (6,350 kg)	15,000 lb (6,804 kg)	
Length	24 in (61 cm)	40 in (102 cm)	69 in (175 cm)	105 in (266 cm)	140 in (355 cm)	140 in (355 cm)	
Width	32 in (80 cm)	36 in (92 cm)	45 in (114 cm)	45 in (114 cm)	76 in (193 cm)	76 in (193 cm)	
Height	42 in (107 cm)	55 in (139 cm)	50 in (137 cm)	66 in (168 cm)	81 in (206 cm)	81 in (206 cm)	
Hydraulic Reservoir	20 gal (75 L)	30 gal (114 L)	55 gal (208 L)	140 gal (530 L)	300 gal (1,135 L)	300 gal (1,135 L)	
Fuel Capacity	1.50 gal (5.68 L)	12 gal (45 L)	24 gal (91 L)	75 gal (284 L)	140 gal (530 L)	140 gal (530 L)	



POWER UNITS

SOLID WELDED TUBULAR FRAME



HIGH PRESSURE **FILTERS** TO EXTEND HYDRAULIC OIL LIFE

MODELS WITH CAT TIER II, III, or IV **ENGINES**

LIFT OFF HINGES FOR EASY DOOR REMOVAL IN THE FIELD

WEATHER SEALED STAINLESS STEEL **HYDRAULIC GAUGES AND** CONTROL PANEL

456	475	580	755	800	950	1200
Caterpillar	Caterpillar	Caterpiller	Caterpiller	Caterpillar	Caterpillar	Caterpillar
C9B Tier IV	C13 Tier IV	C15 Tier IV	C18 Tier IV	C18 Tier IV	C27 Tier IV	C32 Tier IV
456 HP	475 HP	580 HP	755 HP	800 HP	950 HP	1,200 HP
(340 kW)	(354 kW)	(432 kW)	(563 kW)	(596 kW)	(708 kW)	(895 kW)
0 - 5,076 psi	0 - 5,800 psi	0-4700 psi	0 - 5,800 psi	0 - 5,800 psi	0 - 5,076 psi	0 - 5,076 psi
(350 bar)	(400 bar)	(324 bar)	(400 bar)	(400 bar)	(350 bar)	(350 bar)
150 gpm	150 gpm	225 gpm	241 gpm	242 gpm	278 gpm	294 gpm
(568 lpm)	(568 lpm)	(852 lpm)	(912 lpm)	(916 lpm)	(1,052 lpm)	(1,113 lpm)
4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi	4,800 psi
(331 bar)	(331 bar)	(331 bar)	(331 bar)	(331 bar)	(331 bar)	(331 bar)
10 gpm	10 gpm	10 gpm	10 gpm	10 gpm	10 gpm	10 gpm
(38 lpm)	(38 lpm)	(38 lpm)	(38 lpm)	(38 lpm)	(38 lpm)	(38 lpm)
1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm	1,800 rpm
15,000 lb	20,000 lb	17,500 lb	22,750 lb	23,300 lbs	28,000 lb	28,750 lb
(6,804 kg)	(9,072 kg)	(7,938 kg)	(10,319 kg)	(10,569 kg)	(12,701 kg)	(13,041 kg)
140 in	150 in	165 in	186 in	186 in	186 in	186 in
(355 cm)	(380 cm)	(419 cm)	(472 cm)	(472 cm)	(472 cm)	(472 cm)
76 in	80 in	88 in	96 in	96 in	87 in	87 in
(193 cm)	(201 cm)	(224 cm)	(244 cm)	(244 cm)	(221 cm)	(221 cm)
81 in	88 in	97 in	90 in	90 in	103 in	103 in
(206 cm)	(226 cm)	(247 cm)	(229 cm)	(229 cm)	(262 cm)	(262 cm)
300 gal	305 gal	568 gal	660 gal	660 gal	760 gal	760 gal
(1,135 L)	(1,155 L)	(2,150 L)	(2,498 L)	(2,498 L)	(2,877 L)	(2,877 L)
140 gal	117 gal	145 gal	178 gal	178 gal	180 gal	180 gal
(530 L)	(443 L)	(553 L)	(674 L)	(674 L)	(681 L)	(681 L)







	Maximum	Minimum	Ram	Hammer
	Energy	Energy	Weight	Weight
D8-42	19,845 ft-lbs	9,724 ft-lbs	1,764 lb	4,540 lb
	(27.79 kNm)	(13.13 kNm)	(0.8 tonnes)	(2,059 kg)
D12-42	29,768 ft-lbs	14,884 ft-lbs	2,646 lb	6,890 lb
	(40.19 kNm)	(20.09 kNm)	(1.2 tonnes)	(3,125 kg)
D16-52	39,690 ft-lbs	19,845 ft-lbs	3,528	8,000 lb
	(53.58 kNm)	(26.79 kNm)	(1.6 tonnes)	(3,629 kg)
D19-52	47,132 ft-lbs	23,566 ft-lbs	4,189 lb	8,400 lb
	(63.63 kNm)	(31.81 kNm)	(1.9 tonnes)	(3,810 kg)
D25-52	62,016 ft-lbs	31,008 ft-lbs	5,512 lb	12,569 lb
	(83.72 kNm)	(41.86 kNm)	(2.5 tonnes)	(5,700 kg)
D30-52	74,419 ft-lbs	37,209 ft-lbs	6,615 lb	13,571 lb
	(100.47 kNm)	(50.23 kNm)	(3 tonnes)	(6,156 kg)
D36-26	89,303 ft-lbs	44,651 ft-lbs	7,938 lb	17,150 lb
	(120.56 kNm)	(60.28 kNm)	(3.6 tonnes)	(7,779 kg)
D36-52	89,303 ft-lbs	43,758 ft-lbs	7,938 lb	22,795 lb
	(120.56 kNm)	(59.07 kNm)	(3.6 tonnes)	(10,339 kg)
D46-52	114,109 ft-lbs	55,913 ft-lbs	10,143 lb	25,000 lb
	(154.05 kNm)	(75.48 kNm)	(4.6 tonnes)	(11,340 kg)
D50-52	124,031 ft-lbs	60,775 ft-lbs	11,025 lb	25,882 lb
	(167.44 kNm)	(82.05 kNm)	(5 tonnes)	(11,740 kg)
D62-52	153,799 ft-lbs	76,899 ft-lbs	13,671 lb	29,100 lb
	(207.63 kNm)	(103.81 kNm)	(6.2 tonnes)	(13,200 kg)
D70-52	173,644 ft-lbs	86,822 ft-lbs	15,435 lb	30,864 lb
	(234.42 kNm)	(117.21 kNm)	(7 tonnes)	(14,000 kg)
D80-42	198,450 ft-lbs	127,008 ft-lbs	17,640 lb	38,434 lb
	(267.91 kNm)	(171.46 kNm)	(8 tonnes)	(17,433 kg)
D100-42	248,063 ft-lbs	158,760 ft-lbs	22,050 lb	47,000 lb
	(334.88 kNm)	(214.33 kNm)	(10 tonnes)	(21,319 kg)
D125-42	310,078 ft-lbs	198,450 ft-lbs	27,563 lb	62,000 lb
	(418.61 kNm)	(267.91 kNm)	(12.5 tonnes)	(28,123 kg)



SINGLE ACTING DIESEL HAMMER



SINGLE ACTING DIESEL HAMMERS - CON'T

	Maximum	Minimum	Ram	Hammer
	Energy	Energy	Weight	Weight
D128-42	317,520 ft-lbs	203,213 ft-lbs	28,224 lb	68,000 lb
	(428.65 kNm)	(275.34 kNm)	(12.8 tonnes)	(30,844 kg)
D138-42	342,326 ft-lbs	219,089 ft-lbs	30,429 lb	70,295 lb
	(462.14 kNm)	(295.77 kNm)	(13.8 tonnes)	(31,885 kg)
D160-42	396,900 ft-lbs	242,109 ft-lbs	35,280 lb	85,000 lb
	(535.82 kNm)	(326.85 kNm)	(16 tonnes)	(38,555 kg)
D180-42	446,513 ft-lbs	272,373 ft-lbs	39,690 lb	92,000 lb
	(602.79 kNm)	(367.70 kNm)	(18 tonnes)	(41,730 kg)
D220-42	545,738 ft-lbs	332,900 ft-lbs	48,510 lb	102,820 lb
	(736.75 kNm)	(449.41 kNm)	(22 tonnes)	(46,638 kg)
D260-42	644,963 ft-lbs	393,427 ft-lbs	57,330 lb	118,830 lb
	(870.70 kNm)	(531.13 kNm)	(26 tonnes)	(53,900 kg)
D320	785,500 ft-lbs	453,955 ft-lbs	70,550 lb	152,000 lb
	(1,065 kNm)	(612.84 kNm)	(32 tonnes)	(69,000 kg)









PIPE INSERTS

	Wt#	A	В	С	D	E	F	G	н
16" (406 mm)	730 lb (331 kg)	17 in (432 mm)	17.1 in (434 mm)	3 in (16 mm)	7.87 in (200 mm)	9.85 in (250 mm)	11.9 in (302 mm)	13.85 in (352 mm)	-
24" (610 mm)	1,770 lb (802 kg)	17 in (431 mm)	20 in (507 mm)	3 in (16 mm)	15 in (381 mm)	17 in (431 mm)	18.75 in (476 mm)	22.5 in (577 mm)	26 in (660 mm)
30" (762 mm)	2,340 lb (1,061 kg)	17 in (431 mm)	18.5 in (470 mm)	2.5 in (64 mm)	11 in (279 mm)	18 in (457 mm)	25 in (635 mm)	31.9 in (813 mm)	-

16" PIPE INSERT

24" PIPE INSERT

30" PIPE INSERT















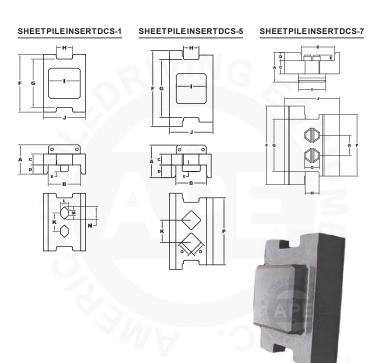


SHEET PILE INSERTS

	Wt#	Α	В	С	D	E	F	G
DCS-	1,700 lb	16 in	17 in	6 in	5 in	3.75	31.5 in	25.5 in
	(771 kg)	(406 mm)	(432 mm)	(152 mm)	(127 mm)	(95 mm)	(800 mm)	(648 mm)
DCS-	3,080 lb	18 in	19.75 in	6 in	5 in	3.5 in	42 in	32 in
	(1,397 kg)	457 mm)	(502 mm)	(152 mm)	(127 mm)	(89 mm)	(1,067 mm)	(813 mm)
DCS-	4,050	18 in	20.25 in	8 in	5 in	3.5 in	48 in	32 in
	(1,837 kg)	(457 mm)	(514 mm)	(203 mm)	(127 mm)	(89 mm)	(1,220 mm)	(813 mm)



INSERTS



Н	I	J	K	Г	M	N	0	Р
8.5 in (216 mm)	16.5 in (419 mm)	22 in) (559 mm)	10 in (254 in)	4 in (102 mm)	2.9 in (76 mm)	6.8 in (172 mm)	-	-
8.5 in (216 mm)	16.7 in (425 mm)	25.5 in (648 mm)	12.25 in (312 mm)	-	-	-	7.75 in (197 mm)	37.5 in (952 mm)
8.5 in (216 mm)	16.7 in (425 mm)	33.5 in (850 mm)	12.35 in (314 mm)	-	-	-	-	37.5 in (952 mm)

H-PILE INSERTS

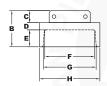
	Wt#	Α	В	С	
12" (305 mm) Round	1,060 lb (481 kg)	17 in (432 mm)	20 in (508 mm)	5 in (127 mm)	
14" (356 mm) Round	1,220 lb (553 kg)	25 in (635 mm)	20 in (508 mm)	5 in (127 mm)	
12" & 14" (305 & 356 mm) Waffle	850 lb (386 kg)	17 in (432 mm)	11 in (279 mm)	5 in (127 mm)	
16" & 18" (406 & 457 mm) Waffle	2,140 lb (971 kg)	17 in (432 mm)	17 in (432 mm)	5 in (127 mm)	

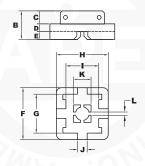
H-PILE INSERT - ROUND

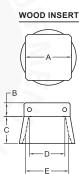


H-PILE INSERT - WAFFLE









WOOD INSERTS

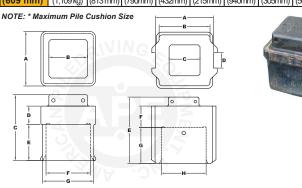
	Wt#	Α	В	С	D	E
17" (432 mm)				11.25 in (286 mm)		17 in (432 mm)
19" (483 mm)		19 in (484 mm)		18 in (457 mm)		19 in (482 mm)



INSERTS

D	E	F	G	Н	- 1	J	К	L
3 in (76 mm)	12 in (305 mm)	17 in (432 mm)	17.7 in (449 mm)	26.5 in (675 mm)	-	-	-	-
3 in (76 mm)	12 in (305 mm)	21 in (533 mm)	21.65 in (550 mm)	26.6 in (676 mm)	-	-	-	-
3 in (76 mm)	3 in (76 mm)	20 in (508 mm)	15 in (381 mm)	20 in (508 mm)	12.65 in (321 mm)	3.75 in (95 mm)	6.75 in (171 mm)	1.25 in (32 mm)
6 in (152 mm)	6 in (152 mm)	26 in (660 mm)	19 in (482 mm)	26 in (660 mm)	19 in (482 mm)	2.5 in (64 mm)	13 in (330 mm)	2.5 in (64 mm)

	BOX INSERTS									
	Wt# A B C D E F G H									
*10"	1,480 lb	20 in	17 in	27 in	6 in	16 in	11.5 in	14.5 in	-	
(254 mm)	(671 kg)	(508 mm)	(432 mm)	(685 mm)	(152 mm)	(406 mm)	(293 mm)	(369 mm)		
*12"	1,610 lb	20 in	17 in	27 in	6 in	16 in	13.5 in	16.5 in	-	
(305 mm)	(730 kg)	(508 mm)	(432 mm)	(685 mm)	(152 mm)	(406 mm)	(343 mm)	(419 mm)		
*14"	1,560 lb	20 in	17 in	27 in	6 in	16 in	15 in	20 in	-	
(356 mm)	(708 kg)	(508 mm)	(432 mm)	(686 mm)	(152 mm)	(406 mm)	(381 mm)	(508 mm)		
*16"	1,810 lb	22 in	17 in	27 in	6 in	16 in	17 in	20 in	-	
(406 mm)	(821 kg)	(359 mm)	(432mm)	(686 mm)	(152 mm)	(406 mm)	(432 mm)	(508 mm)		
*18"	2,360 lb	24 in	17 in	29 in	8 in	16 in	19 in	22 in	-	
(457 mm)	(1,070 kg)	(610 mm)	(432 mm)	(736 mm)	(203 mm)	(406 mm)	(482 mm)	(559 mm)		
*20"	2,840 lb	26 in	24 in	17 in	8.5 in	29 in	8 in	16 in	21.5 in	
(508 mm)	(1,288 kg)	(660 mm)	(610 mm)	(432 mm)	(216 mm)	(736 mm)	(203 mm)	(406 mm)	(546 mm)	
*24"	2,445 lb	32 in	31 in	17 in	8.5 in	37 in	12 in	20 in	25 in	
(609 mm)	(1,109 kg)	(813 mm)	(790mm)	(432mm)	(215mm)	(940mm)	(305mm)	(508mm)	(636mm)	

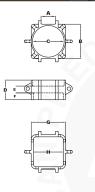


10"- 18" BOX INSERT

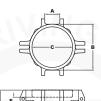
20" - 24" BOX INSERT

DRIVE CAP BASES

	Wt#	Α	В	С	D	Е	F	G	н
20" - 4"	750 lb	8.5 in	20 in	18.25 in		4 in	4 in	20 in	17.5 in
(508 - 102 mm)	(340 kg)	(216	(508)	(464	(292	(102	(101.6	(508	(445
, ,		mm) 8.5 in	mm) 26 in	mm) 23 in	mm) 14.5 in	mm) 4.5 in	mm) 4 in	mm) 21 in	mm) 17.5 in
26" - 6"	1,270 lb	(216	(660	(584	(367	(114	(101.6	(533	(445
(660 - 152 mm)	(576 kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
26" - 9"	1,350 lb	8.5 in	26 in	23 in	17.5 in	4.5 in	4 in	21 in	17.5 in
		(216	(660	(584	(443	(114	(101.6	(533	(445
(660 - 229 mm)	(612 kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
32" - 6"	2,270 lb	8.5 in	32 in	25.5 in	16.5 in	4.5 in	6 in	24 in	17.5 in
(813 - 152 mm)	(1,030	(216	(813	(648	(419	(114	(153	(612	(445
(013 - 132 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
32" - 9"	2,420 lb	8.5 in	32 in	25.5 in	19.5 in	4.5 in	6 in	24 in	17.5 in
(813 - 229 mm)	(1,097	(216	(813	(648	(495	(114	(153	(612	(445
(013 - 223 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
37" - 6"	3,020 lb	8.5 in	37 in	25.5 in	18.5 in	4.5 in	8 in	24 in	17.5 in
(940 - 152 mm)	(1,370	(216	(940	(648	(470	(114	(203	(612	(445
(340 - 102 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
37" - 9"	2,790 lb	8.5 in	37 in	25.5 in	19.5 in	4.5 in	6 in	24 in	17.5 in
(940 - 229 mm)	(1,266	(216	(940	(648	(495	(114	(153	(612	(445
(340 - 223 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
43" - 6"	3,400 lb	8.5 in	43 in	25.5 in	18.5 in	4.5 in	8 in	24 in	17.5 in
(1,092 - 152 mm)	(1,542	(216	(1092	(648	(470	(114	(203	(612	(445
(1,002 - 102 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
43" - 9"	4,070 lb	8.5 in	43 in	30.5 in	21.5 in	4.5 in	8 in	24 in	17.5 in
(1,092 - 229 mm)	(1,846	(216	(1092	(775	(545	(114	(203	(612	(445
(1,032 - 223 11111)	kg)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)



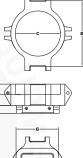






26" DRIVE CAP BASE

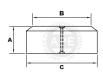






32" 37" & 43" DRIVE CAP BASE

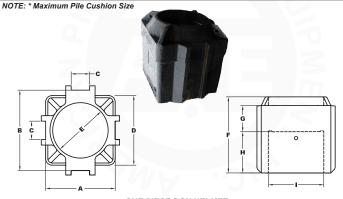
STRIKER PLATES | DRIVE CAP BASES | HELMETS





STRIKER PLATES								
	Wt#	Α	В	С				
17.75"	440 lb	6 in	14 in	17.75 in				
(450 mm)	(199 kg)	(152 mm)	(356 mm)	(451 mm)				
22.5"	650 lb	6 in	18 in	22.5 in				
(572 mm)	(295 kg)	(152 mm)	(457 mm)	(572 mm)				
25"	1,036 lb	8 in	19 in	25.0 in				
(635 mm)	(470 kg)	(203 mm)	(485 mm)	(635 mm)				
30"	2,400 lb	12 in	29 in	30 in				
(762 mm)	(1,089 kg)	(305 mm)	(737 mm)	(762 mm)				

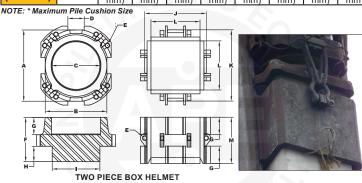
	ONE PIECE BOX HELMETS									
	Wt#	Α	В	С	D	Е	F	G	Н	-1
*24" (610 mm)	5,818 lb (2,639 kg)	32 in (813 mm)	37 in (940 mm)	8.5 in (216 mm)	32 in (813 mm)	25.5 in (648 mm)	35 in (889 mm)	12 in (305 mm)	19 in (483 mm)	25.5 in (645 mm)
*30" (762 mm)	6,195 lb (2,810 kg)	37 in (940 mm)	43 in (1092 mm)	8.5 in (216 mm)	36 in (914 mm)	١ .	(1,067	12 in (305 mm)	24 in (610 mm)	31.5 in (800 mm)



ONE PIECE BOX HELMET

TWO PIECE BOX HELMETS

	Wt#	Α	В	С	D	E	F	G	Н	
*24" (610 mm)	8,770 lb (3,978 kg)	37 in (940 mm)	32 in (813 mm)	25.5 in (648 mm)	8.5 in (216 mm)	2 in (51 mm)	23 in (584 mm)	9 in (229 mm)	8 in (203 mm)	
*30" (762 mm)	10,850 lb (4,921 kg)	43 in (1092 mm)	42.5 in (1080 mm)	30.5 in (775 mm)	8.5 in (216 mm)	2 in (51 mm)	23 in (584 mm)	9 in (229 mm)	8 in (203 mm)	
*36" (914 mm)	14,700 lb (6,667 kg)	54 in (1372 mm)	43 in (1092 mm)	30.5 in (775 mm)	8.5 in (216 mm)	2 in (51 mm)	23 in (584 mm)	9 in (229 mm)	8 in (203 mm)	



PIPE HELMETS

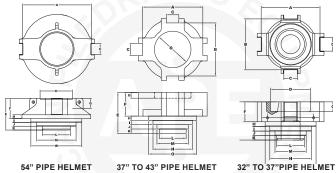
	Wt#	A	В	С	D	Ш	
32/37" - 25.5" (813/940 - 648 mm)	3,400 lb (1,542 kg)	17 in (432 mm)	37 in (940 mm)	8.5 in (216 mm)	25.5 in (648 mm)	24 in (610 mm)	
37/43" - 25.5" (940/1092 - 648 mm)	6,660 lb (3,021 kg)	43 in (1,092 mm)	37 in (940 mm)	8.5 in (216 mm)	25.5 in (648 mm)	28.5 in (724 mm)	
37/43" - 30.5" (940/1092 - 775 mm)	6,560 lb (2,976 kg)	43 in (1,092 mm)	37 in (940 mm)	8.5 in (216 mm)	30.5 in (775 mm)	28.5 in (724 mm)	
54" - 30.5" (1,372 - 775 mm)	8,810 lb (3,996 kg)	54 in (1,371 mm)	-	8.5 in (216 mm)	30.5 in (775 mm)	25 in (635 mm)	



TWO PIECE & PIPE HELMETS

- 1	J	K	L	M
24.75 in	32 in	37 in	25.5 in	36 in
(629	(813	(940	(648	(914
mm)	mm)	mm)	mm)	mm)
30.75 in	37 in	43 in	31.5 in	36 in
(781	(940	(1092	(800	(914
mm)	mm)	mm)	mm)	mm)
36.75 in	43 in	54 in	37.5 in	36 in
(933	(1092	(1372	(953	(914
mm)	mm)	mm)	mm)	mm)





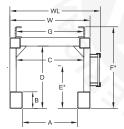
				7 10					
F	G	Н	1	J	K	٦	M	N	0
12.5 in	6 in	3 in	2.9 in	2.9 in	2.75 in	17.5 in	19.6 in	26.1 in	32 in
(318	(152	(76	(73	(73	(70	(445	(499	(663	(813
mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
16.5 in	6 in	3 in	3 in	3 in	3 in	18.75 in	22 in	27.5 in	33.5 in
(419	(152	(76	(76	(76	(76	(476	(559	(699	(851
mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
16.5 in	6 in	3 in	3 in	3 in	3 in	18.75 in	22 in	27.5 in	33.5 in
(419	(152	(76	(76	(76	(76	(476	(559	(699	(851
mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)	mm)
16 in (406 mm)	8 in (203 mm)	-	3 in (76 mm)	3 in (76 mm)	3 in (76 mm)	22 in (558 mm)	31 in (788 mm)	40 in (1,016 mm)	



BOX LEADS

			,				
	8 x 21	8 x 26	8 x 32	8 x 37	8 x 43	10 x 54	10 x 64
Α	21.50 in	26.50 in	32.50 in	37.50 in	43.50 in	54.50 in	64.50 in
	54.61 cm	67.31 cm	82.55 cm	95.25 cm	110.5 cm	138.43 cm	163.83 cm
В	8.00 in	8.00 in	8.00 in	8.00 in	8.00 in	10.00 in	10.00 in
	20.32 cm	20.32 cm	20.32 cm	20.32 cm	20.32 cm	25.4 cm	25.4 cm
С	27.50 in	32.50 in	38.50 in	43.50 in	49.50 in	62.50 in	72.50 in
	69.85 cm	82.55 cm	97.79 cm	110.5 cm	125.73 cm	158.75 cm	184.15 cm
D	30.00 in	30.00 in	34.00 in	42.00 in	46.00 in	48.00 in	48.00 in
	76.2 cm	76.2 cm	86.36 cm	106.68 cm	116.84 cm	121.92 cm	121.92 cm
Е	15.29 in	15.29 in	16.94 in	20.22 in	21.87 in	28.00 in	28.00 in
	38.84 cm	38.84 cm	43.03 cm	51.36 cm	55.55 cm	71.12 cm	71.12 cm
E*	22.10 in 56.13 cm	22.10 in 56.13 cm	24.50 in 62.23 cm	29.29 in 74.40 cm	31.69 in 80.49 cm	N/A	N/A
F	34.00 in	34.00 in	38.00 in	46.00 in	50.00 in	54.00 in	54.00 in
	86.36 cm	86.36 cm	96.52 cm	116.84 cm	127 cm	137.16 cm	137.16 cm
F*	39.25 in 99.70 cm	39.25 in 99.70 cm	43.25 in 109.86 cm	51.25 in 130.18 cm	55.25 in 140.33 cm	N/A	N/A
G	27.50 in 69.85 cm	32.50 in 82.55 cm	38.50 in 97.79 cm	43.50 in 110.49 cm	49.50 in 125.73 cm	N/A	N/A
W	33.50 in	38.50 in	44.50 in	49.50 in	55.50 in	74.50 in	84.50 in
	85.09 cm	97.79 cm	113.03 cm	125.73 cm	140.97 cm	189.23 cm	214.63 cm
WL	38.50 in 97.79 cm	43.50 in 110.5 cm	49.50 in 125.73 cm	54.50 in 138.43 cm	60.50 in 153.67 cm	79.50 in 201.93 cm	N/A
WT	130 lb/ft	135 lb/ft	141 lb/ft	146 lb/tf	152 lb/ft	280 lb/ft	290 lb/ft
	(193.19	(200.83	(209.75	(217.20	(226.15	(416.59	(431.56
	kg/m)	kg/m)	kg/m)	kg/m)	kg/m)	kg/m)	kg/m)

Pinup rail weight per ft. = 15 lbs







HEADBLOCK



LEADS

	FRONT RIDING LEADS										
	ST-75	ST-100	ST-150	ST-190							
А	28.5 in	28.5 in	28.5 in	37 in							
	(72.4 cm)	(72.4 cm)	(72.4 cm)	(93.98 cm)							
В	3 in	3 in	5 in	5 in							
	(7.62 cm)	(7.62 cm)	(12.7 cm)	(12.7 cm)							
С	36 in	36 in	36 in	45 in							
	(91.44 cm)	(91.44 cm)	(91.44 cm)	(114.3 cm)							
Weight per ft.	75 lb	100 lb	150 lb	190 lb							
	(34.01 kg)	(45.35 kg)	(68.02 kg)	(86.16 kg)							

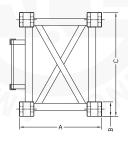




BOTTOM STABER



HEADBLOCK 2 OR 3 LINE





PILE GATE

OFFSHORE LEADS

Lead Size	Min pile size	Max pile size	Overall length	Overall width
43"	16 in	38 in	39 ft	61 in
	(40.6 cm)	(96.5 cm)	(11.8 m)	(155 cm)
54"	18 in	48 in	39 ft	72 in
	(45.7 cm)	(122 cm)	(11.8 m)	(183 cm)
78"	32 in	72 in	39 ft	90 in
	(81.3 cm)	(182.9 cm)	(11.8 m)	(228.6 cm)

Offshore leaders for up to 12 ft (3.65 m) piles are available

APE offshore leaders are designed to give the operator the best available control during the driving of both vertical and batter (raked) piles. Pin on offshore bells allow the greatest versatility for a standard lead section, Drive helmets and pin on drive bells are available for both pipe and concrete piles.







OFFSHORE LEADS | OFFSHORE BELLS

BOTTOM DRIVE SYSTEMS PIN ON OFFSHORE BELLS

Standard leader size	Minimum pile size	Maximum pile size	Overall length
8 x 32 in	16 in	42 in	6 ft
20.3 x 81.3 cm	(40.6 cm)	(106.7 cm)	(1.8 m)
8 x 37 in	60 in	122 in	8 ft
20.3 x 94 cm	(152.4 cm)	(310 cm)	(2.44 m)
8 x 43 in	32 in	72 in	8 ft
20.3 x 109.2 cm	(81.3 cm)	(182.8 cm)	(2.44 m)
10 x 54 in	36 in	122 in	12 ft
20.3 x 137.2 cm	(81.3 cm)	(310 cm)	(3.66 m)

APE Bottom Drives and pin on offshore bells are designed reduce the overall weight of a driving helmet by utilizing a mid or top section of standard lead. Bottom drive bells can be made for multiple pile diameters greatly increasing its versatility.





Bottom Drives for up to 36" upto 10' (3m) piles available including extended boots for batter/raked piles.

SPOTTERS

	APE	APE	APE	APE	J&M
	50	100	150	225	368
Hydraulic Extension	10 ft	10 ft	20 ft	20 ft	30 ft
	3.05 m	3.05 m	6.10 m	6.10 m	9.14 m
Manual	8 ft	10 ft	0 ft	0 ft	0 ft
Extension	2.43 m	3.05 m	0 m	0 m	0 m
Extend Force	31,400 lb	18,000 lb	28,000 lb	31,500 lb	60,000 lb
	14243 kg	8165 kg	12700 kg	14288 kg	27216 kg
Retract Force	16,600 lb	19,000 lb	32,000 lb	23,500 lb	62,000 lb
	7530 kg	8618 kg	14515 kg	10660 kg	28123 kg
Collapsed Length*	22 ft	17 ft	17 ft	21.5 ft	26 ft
	6.70 m	5.18 m	5.18 m	6.55 m	7.92 m
L/R Travel Extended	12 ft 7"	6 ft	35 ft	41.5 ft	52 ft
	5.39 m	1.83 m	10.67 m	12.65 m	15.85 m
L/R Force Extended	3,050 lb	7,200 lb	12,000 lb	28,000 lb	28,000 lb
	1383 kg	3266 kg	5443 kg	12700 kg	12700 kg
L/R Travel Retracted	6 ft 10"	6 ft	15 ft	20 ft	23 ft
	1.86	1.83 m	4.57 m	6.10 m	7.01 m
L/R Force Retracted	5,650 lb	7,200 lb	25,900 lb	64,000 lb	64,000 lb
	2562 kg	3266 kg	11748 kg	29030 kg	29030 kg
Maximum Width	6 ft	8 ft	8 ft	9 ft	10 ft
	1.83 m	2.44 m	2.44 m	2.74 m	3.05 m
Operating Pressure	2,500 psi				
Weight	5,600 lb	7,000 lb	8,500 lb	10,000 lb	31,100 lb
	2540 kg	3175 kg	3856 kg	4536 kg	31100 kg
Power Lead Rotation	Optional	Optional	Optional	Optional	Optional

* Distance from rear pivot to back of leads







J&M EQUIPMENT



J&M Foundation Equipment

J&M Foundation Equipment is a wholly owned subsidiary of American Piledriving Equipment, Inc.

30 years of excellence, and always J&M. Though we have designed and manufactured LBF, ICE & HMC brand equipment, the engineering expertise, and the invaluable experience gained, has always resided at J&M. Building our future on this foundation, and a commitment to customer satisfaction, the J&M name will always mean advanced design, extreme reliability and cost effective value. Couple this with a huge parts inventory, in house engineering, machining and fabrication; and no job is too special, no delivery is too stringent, and down time is not an option.

Vibratory Pile Driver/Extractors Power Units Hydraulic Impact Hammers Top Drive Earth Augers Robovib

Accessories and Attachments

J&M's proven concept of modularity provides exceptional flexibility for both customer operations and the J&M rental fleet. By designing our power units to operate various types of foundation equipment, maximum utilization, availability and value are achieved. A typical J&M power unit can operate a vibratory driver, a hydraulic impact hammer, an auger, a pile crusher and a submersible pump, without modification or special controls.

J&M	VIBRATORY
DRIVER	/EXTRACTORS

	23-51	28-35	44-50	66-80	77
Eccentric Moment	230	2,800	4,400	6,600	7,700
	in-lbs	in-lbs	in-lbs	in-lbs	in-lbs
Drive Force at Rated Frequency	8.4 tons	80 tons	160 tons	240 tons	298 tons
	(747 kN)	(711 kN)	(1423 kN)	(2135 kN)	(2648
(VPM) Rated Frequency	1,600	1,600	1,600	1,560	1,650
Amplitude	0.58 in	1.17 in	1.17 in	1.23 in	Contact
	(1.5 cm)	(3 cm)	(3 cm)	(3.1 cm)	APE
Max Extraction Pull	13 tons	75 tons	80 tons	80 tons	133 tons
	(115.6 kN)	(667 kN)	(711.7 kN)	(711.7 kN)	(1,183 kN)
Max Bare	1,520 lb	9,180 lb	12,400 lb	15,330 lb	17,000 lb
Hammer Weight	(690 kg)	(4164 kg)	(5625 kg)	(6940 kg)	(7,711 kg)
Length 26 in (66 cm		92 in	97 in	97 in	97 in
		(233.7 cm)	(246.4 cm)	(246.4 cm)	(246.4 cm)
Width	16 in	22 in	22 in	22 in	Contact
	(40.6 cm)	(56 cm)	(56 cm)	(56 cm)	APE
Throat Width	10.5 in	15 in	14.25 in	14.25 in	14.75 in
	(26.7 cm)	(38 cm)	(36.2 cm)	(36.2 cm)	(37 cm)
Height w/o clamp	42 in	70.25 in	83 in	100 in	100 in
	(106.4 cm)	(178.5 cm)	(211 cm)	(254 cm)	(254 cm)











VIBRATORY DRIVER/EXTRACTORS













- 30 years of innovation and refinement insure reliability
- Variable frequency, weight & line pull for job matching
- · Vibrator moment optimized for available horsepower
- · Largest selection of clamps and accessories in the industry
- · Forged high alloy gears are precision ground
- On hammer brake minimizes boom shake
- · High efficiency, bent axis, piston motors
- Gun drilling and machined manifolds eliminate leaks
- Proper bearings and lubrication insure long life
- Open loop hydraulics for efficiency and reliability
- Quickly adaptable for underwater or low head room applications
- Remote speed control and emergency stop on pendant
- · Clamp cylinders machined from solid & include lock valve







J&M HYDRAULIC IMPACT HAMMERS (HIH)							
115 160 220							
Ram Weight	11,500 lb	16,000 lb	22,000 lb				
Maximum Stroke	4 ft	4 ft	4 ft				
Minimum Stroke	1 ft	1 ft	1 ft				
Hammer Weight (bare)	17,000 lb	28,600 lb	35,000 lb				
Hyd. Hose Length	100 ft	100 ft	100 ft				
Hyd. Hose Weight	850 lb	1340 lb	1340 lb				
Depth	36 in	46 in	48 in				
Width	26 in	32 in	32 in				
Height (bare)	19'-9"	20'-3"	20'-3"				
Model # Power Unit	175	230	375				



HYDRAULIC IMPACT HAMMERS



- Single piece, chrome alloy, forged ram non-segmental
- · 100% hydraulic, infinitely variable, stroke control system
- · Elastomeric cylinder to ram, anti-shock, connection
- · No threaded fasteners permitted on ram forging.
- · Forged, alloy steel, striker block & standard drive caps
- · Proven and ultra-rugged, 4-column, tensioned cable frame
- · Piston style accumulators.
- · Hard-chromed columns and self-lubricating ram bearings
- · Optional wireless energy readout downloadable
- · Compatible with other hydraulic sources
- · No wires, no sensors, no computers, no problem

J&M TOP DRIVE AUGERS

		35AT	55AT	
	Torque (ft-lbs/kg-m)	5,430 ft-lbs per 1,000 psi (750 kgm per 69 bar)	10,547 ft-lbs per 1,000 psi (1,458 kgm per 69 bar)	
Low Max Pressure		5,500 psi (379.21 bar)	5,500 psi (379.21 bar)	
Speed High	Rotation Speed	47 rpm	24 rpm	Γ
Torque	Max Flow (gpm/lpm)	85 gpm @ 1.8 gal/rev (322 lpm @ 6.81 lit/rev)	85 gpm @ 3.5 gal/rev (322 lpm @ 13.2 lit/rev)	
	Max Horse Power	273 hp (204 kW)	273 hp (204 kW)	
	Torque (ft-lbs/kg-m)	3,473 ft-lbs per 1,000 psi (480 kgm per 69 bar)	3,555 ft-lbs per 1,000 psi (491 kgm per 69 bar)	
High	Max Pressure	5,500 psi (379.21 bar)	5,500 psi (379.21 bar)	
Speed Low	Rotation Speed	73 rpm	72 rpm	
Torque	Max Flow (gpm/lpm)	85 gpm @ 1.2 gal/rev (322 lpm @ 4.5 lit/rev)	85 gpm @ 1.2 gal/rev (322 lpm @ 4.5 lit/rev)	
	Max Horse Power	223 hp (166 kW)	223 hp (166 kW)	
	Crowd Force	35,000 lbs (15,875.73 kg)	80,000 lbs (36,290 kg)	
:	Suspended Weight	3,500 lb (1,588 kg)	5,000 lb (2,268 kg)	
	Depth	38 in (96.52 cm)	38 in (96.52 cm)	
Wid	Ith of Lead Section	26 in (66 cm)	26 in (66 cm)	
Ship	ping Width Overall	31.32 in (79.5 cm)	30.50 in (77.5 cm)	
	Height	52 in (132 cm)	52 in (132 cm)	
	ID of Output Shaft	3 in (7.6 cm)	3 in (7.6 cm)	
	Rotary Swivel ID	3 in (7.6 cm)	3 in (7.6 cm)	
Δ.	API Adapters (type)	API 3 inch, API 4 inch	API 3 inch, API 4 inch	
Le	ad Adapters (type)	8 x 26, 8 x 32	8 x 26, 8 x 32	
				_



TOP-DRIVE AUGERS



24,400 ft-lbs per 1,000 psi (3,373.42 kgm per 69 bar)

100K

4.500 psi (310.26 bar)

23 rpm

196 gpm @ 8.5 gal/rev (742 lpm @ 32.18 lit/rev)

> 500 hp (372.85 kW)

12.200 ft-lbs per 1.000 psi (1,686.71 kgm per 69 bar)

4,500 psi (310.26 bar)

46 rpm

196 gpm @ 4.3 gal/rev (742 lpm @ 16.28 lit/rev)

> 500 hp (372.85 kW)

80,000 lbs (36,290 kg)

9.500 lbs (4,309.13 kg)

62 in (157.48 cm)

37 in (93.98 cm)

79 in (200.66 cm)

127 in (322.58 cm)

7 38 in (18.75 cm)

> 3 in (7.6 cm)

200 mm Male Hex

U-37, ST-150, ST-190



- Single speed, two speed or Autotorque
- Pre-drill, tie backs, cast in place, soil-nails, mini-piles
- Bolted flange, Hex or API flighting connections
- Oversize roller bearings on output shaft for crowd
- Easy shaft seal replacement in field
- Heavy duty final drive gears practically indestructible
- Lifting bale with or without sheave
- Roller or angle lead guides for 20", 26", 32"
- · Compatible with other hydraulic sources
- Autotorque has ultra low speed for grouting & DHH
- 3", 4", 5" through hole in output shaft
- Rotary joint and plumbing for grout and fluid injection
- Grout hose connection via Victaulic™ connectors

RoboVibe

These excavator-mounted vibros allow a single operator to unload H and I beams and sheet piles, raise them to the vertical, position them precisely, and drive them to grade -- all with NO extra equipment needed, and with superior speed and power.

- The ROBOVIBE eccentrics are located within the fixed side grip arm. Centerline of dynamic force is much closer to the gripping jaws, reducing off center force input to pile.
- Vertical distance between side grip jaws is increased to better resists offcenter force
- ROBOVIBE eccentric moment is 22% greater than competitive units, producing significantly larger driving amplitude.
- Each clamp has an individual actuating cylinder. No poorly guided, trouble prone, dual purpose cylinders as in competitive units
- Side grip cylinders are directly mounted to arms and are hydraulically synchronized.
- Proven tilt and rotate mechanism is designed for digging duty, and has sealed lubrication for bearings and worm gear. Cast housing and integral rotation motor maintain perfect alignment for worm gear and massive rotation bearing. Dual tilt cylinders are

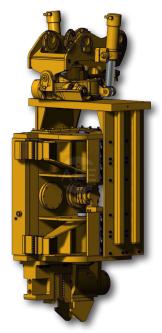
- telescopic, providing lower profile and equal left and right tilt torque.
- RÖBOVIBE +/- 40 deg tilt is 33% more than the competition, allowing additional reach when loading or unloading piles.
- Rectangular clamp jaws on side grips provide more clamping area than round jaws.
- Bottom clamp uses precision-guided slider per accepted vibratory hammer practice. Clamp cylinder is directly aligned with the fixed law - no offset.
- Most components contained within welded steel frame for protection and exceptional strength.
- No solenoid valves or wiring mounted on ROBOVIBE. Valves and wiring are remotely mounted on excavator boom to avoid vibration damage.
- Both the side grip and the bottom clamp jaws are identical to minimize inventory. Additionally, all ROBOVIBE jaws have the J&M exclusive "Kryponite" coating for exceptional wear life.





ROBOVIBE

- Three eccentrics are vertically stacked to minimize distance between driving force and pile center.
- Commonly available elastomers isolate vibration from excavator. Extra elastomer mounting positions are provided so spring rate may be optimized for tough pile extraction applications.
- Lockable adjusting nuts eliminate clearance in side grip arms to reduce vibration wear, and insure long life



Powered by excavator hydraulics and fully articulated, RoboVibe drives piles up to 40' long, much more economically and with greater safety than conventional crane-handled methods. Efficient, built for long life and heavy duty, and able to drive piles from the side or from the top, RoboVibe answers the need for a reliable excavator-mounted vibratory driver.

- Commercial, high pressure gear motor is interchangeable to exactly match excavator hydraulic flow to ROBO-VIB. No flow controls or restrictions to cause damaging heat buildup in excavator hydraulic system.
- Gun-drilled hydraulic distribution manifold is integral to suspension yoke to minimize plumbing, and perfectly align hydraulic swivel.
- Replaceable offset bushings at the excavator connection allow pin diameter and center distance changes to accommodate various brands and sizes of excavators.
- Minimum width, fixed side clamp arm allows driving of H-piles as small as 10".



Note: All technical specifications are subject to change without noti-

J&M LOW HEAD ROOM VIBRATORY DRIVER/EXTRACTORS

	216S	416S	448
Eccentric Moment	1,100 in-lb	2,200 in-lb	4,400 in-lb
Height with Clamp	45 in	59 in	68 in
Width	90 in	114 in	140 in
Depth	17 in	18 in	21 in
Throat Depth	14 in	13 in	18 in
Weight with Clamp	3,400 lb	4,700 lb	9,300 lb
Line Pull	10 tons	14 tons	28 tons





J&M VIBRATORY DRIVER/EXTRACTOR

	Type	Clamps	Pressure	Weight	
10'	Clamp Extension	126,127,55		2300 lb	
40'	Clamp Extension	126,127,196,55		16400 lb	
90°	Turning Plate	126,127		1100 lb	
Dbl	Diverting Valve		5000 psi	80 lb	Г
Dbl	Diverting Sol. Valve		5000 psi	250 lb	
Dbl	Inline Cross Relief		5000 psi	30 lb	



VIBROS | ACCESSORIES | CRUSHER



APE MODEL 24" & 30" PILE CRUSHER

- · 200 ton crushing force
- Extra heavy duty construction NO CASTING
- · Heat treated, alloy, steel blades
- Replaceable, abrasion resistant, blade guides
 - NFPA standard, repairable, hydraulic cylinders
 - Machined manifolds replace vulnerable plumbing
 - Low hydraulic operating pressure for long life
 - Special cylinder rod seals exclude dirt and abrasives
- · Chain suspension contains pile
- Universal blades Crush 12" thru 30" square piles
- Spacer stroke adjustment insures consistency



ACCESSORIES L x W x D Compatibility 120"x37"x14" 28-35, 44-50, 66-80 480"x37"x17" 28-35, 44-50, 66-80 4"x37"x37" 28-35, 44-50, 66-80 6"x7"x12" Vibro, Auger, HIH 16"x12"x6 Vibro, Auger, HIH

6"x6"x14"



Vibro, Auger, HIH

J&M CAISSON BEAMS							
	Compatibility	Range	Clamp	Weight	LxWxD		
3'	216	14.13"Ø - 36"Ø	80	725 lb (329 kg)	63"		
7'	416B, 28-35, 44-50	14.13ӯ - 84"Ø	80	1,400 lb (635 kg)	9"x110"x6"		
11'	416B, 44-50, 66-80	14.13"Ø - 136"Ø	80	6,725 lb (3,050 kg)	19"x150"x17"		





J&M VIBRATORY HYDRAULIC CLAMPS						
	Type	Range	Max Force	Weight	LxWxD	Compat- ibility
126	Sheeting	0 - 1.50"	126 Ton	2,400 lb (1,089 kg)	38"x46"x12"	28-35, 44-50, 416B
196	Sheeting	0 - 2.00"	196 Ton	2,940 lb (1,334 kg)	38"x57"x12"	66-80
80	Caisson	16"Ø - 132"Ø	80 Ton	990 lb (449 kg)	22"x28"x11"	44-50, 28-35, 416B
122	Caisson	22"Ø - 120"Ø	126 Ton	1,700 lb (771 kg)	25"x58"x14"	66-80



BEAMS | CLAMPS | MOBILE MAST

Model 3030 Drill Mast





NOTES
A CAPE S
1 5600 110
18028
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1 1/1/07

LOCATIONS

CORPORATE OFFICE NORTHWEST

7032 South 196th St.
Kent, Washington 98032
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