

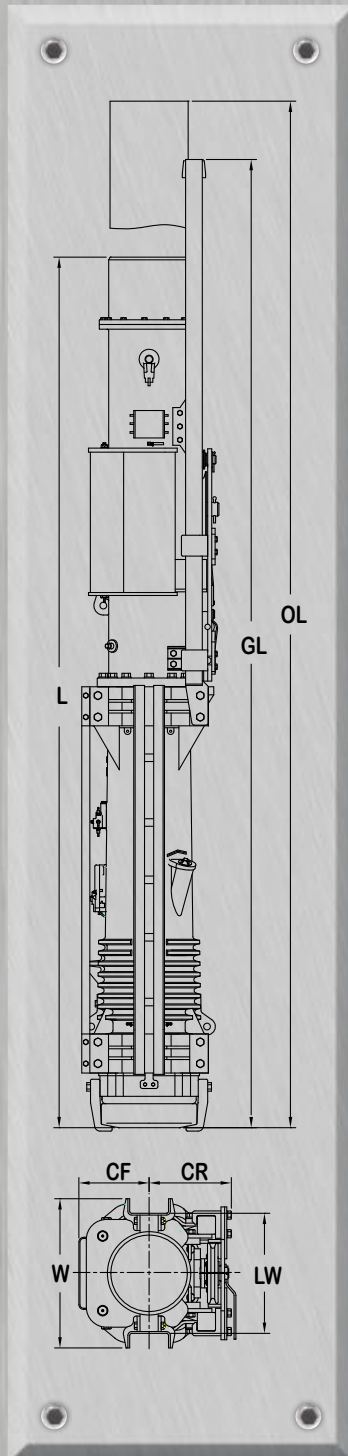
ICE[®] MODEL I-8^{V2}

SINGLE-ACTING DIESEL PILE HAMMER



Simple, reliable design
Automatic lubrication
Optional variable fuel control
Optional hydraulic trip

Equipped with ICE[®] Box leads guides
Uses standard ICE[®] drive caps
Swinging, fixed and sliding leads available
Spotters available for precise pile positioning



Working Specifications

Ram weight	1,764 lbs	800 kg
Rated energy (fuel setting 4)	18,700 ft-lbs	25 350 Nm
Stroke at rated energy (fuel setting 4)	10.60 feet	3 230 mm
Energy at fuel setting 3	17,935 ft-lbs	24 320 Nm
Energy at fuel setting 2	15,620 ft-lbs	21 180 Nm
Energy at fuel setting 1	14,465 ft-lbs	19 615 Nm
Energy at maximum stroke	20,675 ft-lbs	28 030 Nm
Maximum geometric stroke	11.72 feet	3 575 mm
Blows per minute	36-52	

Weights

Bare hammer with trip	5,270 lbs	2 390 kg
Hammer with box lead guides	6,065 lbs	2 750 kg
Drive cap base	DCB-20	
Drive cap base weight	760 lbs	345 kg
Striker plate	250 lbs	114 kg
Cushion material	30 lbs	14 kg
Pile insert	DCH-1	
Pile insert weight	780 lbs	354 kg
Operating weight with drive cap above	7,885 lbs	3 577 kg

Capacities

Fuel tank	8.3 gal	31.5 l
Lube oil tank	2.2 gal	8.2 l

Dimensions

Hammer length (L)	15.3 ft	4 650 mm
Length with trip guides (GL)	18.2 ft	5 550 mm
Length at max stroke (OL)	20.8 ft	6 325 mm
Overall width (W)	25.5 in	648 mm
Standard box leads width (LW)	20 in	508 mm
Overall depth (CR + CF)	27.9 in	708 mm
Centerline to rear (CR)	13.3 in	338 mm
Centerline to front (CF)	14.6 in	370 mm

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INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

Corporate offices: 301 Warehouse Drive, Matthews, NC USA
Phones: 888 ICEUSA1, 704 821-8200

info@iceusa.com
www.iceusa.com

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BEARING CHART



888-ICE-USA1
sales@iceusa.com
www.iceusa.com

This chart is based on the FHWA-modified version of the Gates Formula for pile bearing and is provided as a convenience only for those applications where this formula is specified. ICE[®] has no preference for this particular formula over any other.

$$R_u = \frac{1}{2} [1.75 \sqrt{E} \log(10 N) - 100]$$

Where:

R_u = Ultimate pile bearing (tons)

E = Rated hammer energy in

ft-lbs, or (ram weight ×

stroke) if lower fuel setting

N = Blow count per 1 in

CAUTION: Driving at ten blows per inch is considered practical refusal.

Driving in excess of ten blows per inch

for more than six inches of driving or

driving in excess of 20 blows per inch

at all is considered improper use and

will void the hammer warranty.

NOTE: The FHWA recommends

using a factor for safety of 3.5 with the

Gates formula.

Blows per Minute	Ram Stroke (feet)	Hammer Energy (ft-lbs)	Pile Set (Blows per inch)																		
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
35	11.76	20,689	114	136	152	164	174	182	190	196	202	207	212	216	220	224	227	231	234	237	240
36	11.11	19,556	109	131	146	158	168	176	183	189	195	200	204	209	213	216	220	223	226	229	232
37	10.52	18,513	105	126	141	152	162	170	177	183	188	193	198	202	206	209	212	216	218	221	222
38	9.97	17,551	101	121	136	147	156	164	171	177	182	187	191	195	199	202	206	209	211	214	217
39	9.47	16,663	97	117	131	142	151	158	165	171	176	181	185	189	192	196	199	202	205	207	210
40	9.00	15,840	93	113	126	137	146	153	160	165	170	175	179	183	186	190	193	196	198	201	203
41	8.57	15,077	90	109	122	133	141	148	154	160	165	169	173	177	181	184	187	190	192	195	197
42	8.16	14,367	86	105	118	128	136	144	150	155	160	164	168	172	175	178	181	184	187	189	191
43	7.79	13,707	83	101	114	124	132	139	145	150	155	159	163	167	170	173	176	178	181	183	186
44	7.44	13,091	80	98	110	120	128	135	141	146	150	154	158	162	165	168	171	173	176	178	180
45	7.11	12,516	77	95	107	116	124	131	136	141	146	150	154	157	160	163	166	168	171	173	175
46	6.81	11,977	75	91	103	113	120	127	132	137	142	145	149	152	156	158	161	164	166	168	170
47	6.52	11,473	72	88	100	109	117	123	128	133	137	141	145	148	151	154	157	159	161	164	166
48	6.25	11,000	69	86	97	106	113	119	125	129	134	137	141	144	147	150	152	155	157	159	161
49	6.00	10,556	67	83	94	103	110	116	121	126	130	134	137	140	143	146	148	151	153	155	157
50	5.76	10,138	65	80	91	100	107	113	118	122	126	130	133	136	139	142	144	147	149	151	153
51	5.54	9,744	62	78	88	97	104	109	114	119	123	126	130	133	135	138	140	143	145	147	149
52	5.33	9,373	60	75	86	94	101	106	111	116	119	123	126	129	132	134	137	139	141	143	145
53	5.13	9,022	58	73	83	91	98	103	108	112	116	120	123	126	128	131	133	135	137	139	141

Constant improvement and engineering progress make it necessary that ICE[®], Inc reserve the right to make specification changes without notice. Please consult ICE[®] for the latest available information.