

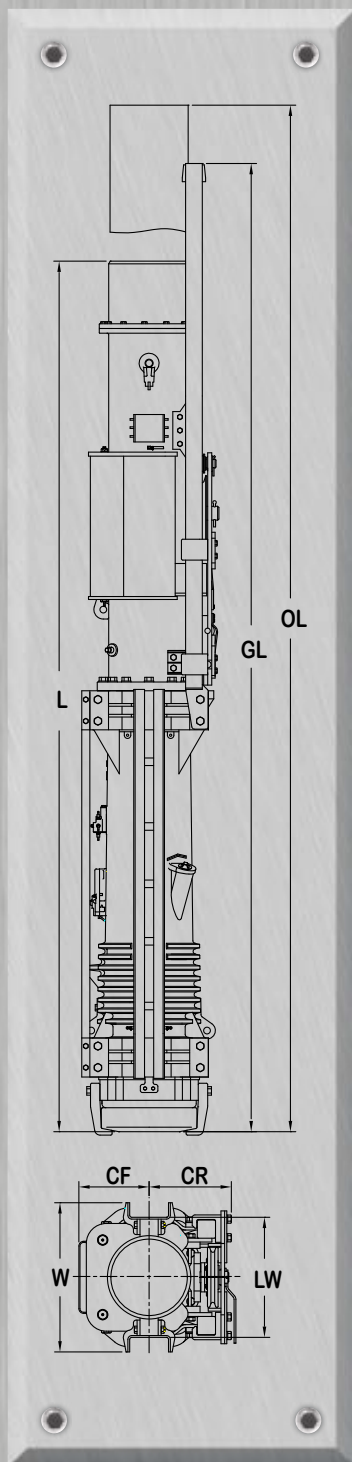
ICE® MODEL I-12^{v2}

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	2,822 lbs	1 280 kg
Rated energy (fuel setting 4)	29,630 ft-lbs	40 175 Nm
Stroke at rated energy (fuel setting 4)	10.50 feet	3 200 mm
Energy at fuel setting 3	28,700 ft-lbs	38 910 Nm
Energy at fuel setting 2	25,000 ft-lbs	33 890 Nm
Energy at fuel setting 1	23,145 ft-lbs	31 380 Nm
Energy at maximum stroke	32,330 ft-lbs	43 830 Nm
Maximum geometric stroke	11.46 feet	3 490 mm
Blows per minute	36-52	

Weights

Bare hammer with trip	7,210 lbs	3 270 kg
Hammer with box lead guides	8,055 lbs	3 654 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	9,875 lbs	4 481 kg

Capacities

Fuel tank	9.1 gal	34.5 l
Lube oil tank	2.6 gal	10 l

Dimensions

Hammer length (L)	15.7 ft	4 800 mm
Length with trip guides (GL)	19.4 ft	5 900 mm
Length at max stroke (OL)	20.7 ft	6 315 mm
Overall width (W)	25.5 in	648 mm
Standard box leads width (LW)	20 in	508 mm
Overall depth (CR + CF)	29.7 in	753 mm
Centerline to rear (CR)	14.3 in	363 mm
Centerline to front (CF)	15.4 in	390 mm

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INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

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SINGLE-ACTING DIESEL PILE HAMMER

BEARING CHART



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Blows per Minute	Ram Stroke	Hammer Energy	Pile Set (Blows per inch)																		
	(feet)	(ft-lbs)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
35	11.76	33,173	157	185	205	221	233	244	253	261	269	275	281	287	292	297	301	305	309	313	317
36	11.11	31,356	152	179	198	213	226	236	245	253	260	266	272	278	283	287	292	296	299	303	307
37	10.52	29,684	146	173	192	206	218	228	237	245	252	258	263	269	274	278	282	286	290	294	297
38	9.97	28,142	141	167	185	199	211	221	229	237	244	250	255	260	265	269	274	277	281	284	288
39	9.47	26,717	136	161	179	193	204	214	222	229	236	242	247	252	257	261	265	269	273	276	279
40	9.00	25,398	131	156	173	187	198	207	215	223	229	235	240	245	249	253	257	261	264	268	271
41	8.57	24,174	127	151	168	181	192	201	209	216	222	228	233	238	242	246	250	253	257	260	263
42	8.16	23,037	123	146	163	176	186	195	203	210	216	221	226	231	235	239	243	246	250	253	256
43	7.79	21,978	119	142	158	170	181	189	197	203	209	215	220	224	228	232	236	239	243	246	248
44	7.44	20,990	115	137	153	165	175	184	191	198	204	209	214	218	222	226	229	233	236	239	242
45	7.11	20,068	111	133	149	161	170	179	186	192	198	203	208	212	216	220	223	226	230	232	235
46	6.81	19,205	108	129	144	156	166	174	181	187	193	198	202	206	210	214	217	220	223	226	229
47	6.52	18,396	104	125	140	152	161	169	176	182	187	192	197	201	205	208	212	215	218	220	223
48	6.25	17,638	101	122	136	147	157	164	171	177	182	187	192	196	199	203	206	209	212	215	217
49	6.00	16,925	98	118	132	143	152	160	167	172	178	182	187	191	194	198	201	204	207	209	212
50	5.76	16,255	95	115	129	140	148	156	162	168	173	178	182	186	189	193	196	199	202	204	207
51	5.54	15,624	92	112	125	136	144	152	158	164	169	173	177	181	185	188	191	194	197	199	202
52	5.33	15,028	90	108	122	132	141	148	154	160	165	169	173	177	180	183	186	189	192	194	197
53	5.13	14,467	87	105	119	129	137	144	150	156	160	165	169	172	176	179	182	185	187	190	192

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.

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.