

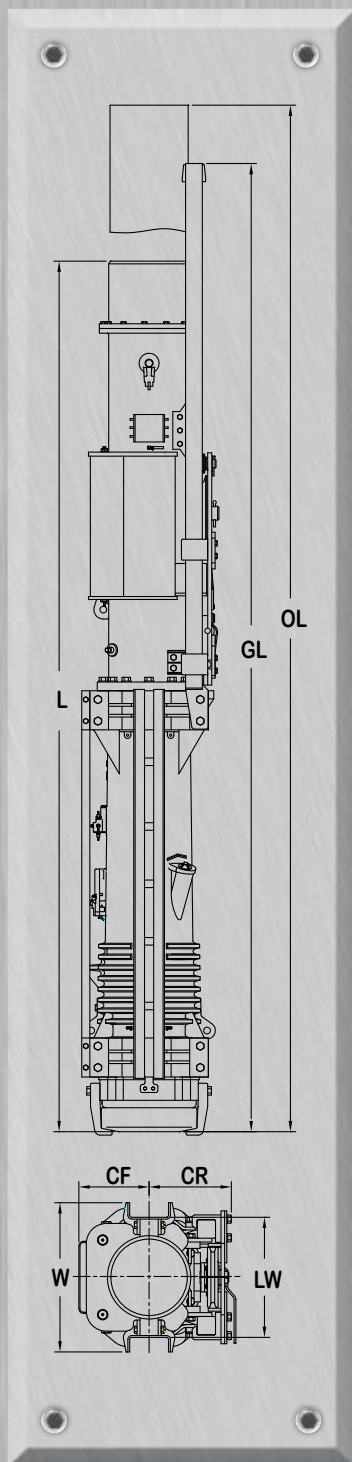
ICE[®] MODEL I-30^{v2}

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	6,615 lbs	3 000 kg
Rated energy (fuel setting 4)	76,070 ft-lbs	103 135 Nm
Stroke at rated energy (fuel setting 4)	11.50 feet	3 505 mm
Energy at fuel setting 3	69,435 ft-lbs	94 145 Nm
Energy at fuel setting 2	62,925 ft-lbs	85 315 Nm
Energy at fuel setting 1	56,415 ft-lbs	76 490 Nm
Energy at maximum stroke	83,370 ft-lbs	113 030 Nm
Maximum geometric stroke	12.60 feet	3 840 mm
Blows per minute	35-52	

Weights

Bare hammer with trip	13,440 lbs	6 095 kg
Hammer with box lead guides	14,750 lbs	6 690 kg
Drive cap base	DCB-1HD	
Drive cap base weight	1,245 lbs	565 kg
Striker plate	460 lbs	209 kg
Cushion material	110 lbs	25 kg
Pile insert	DCH-1	
Pile insert weight	780 lbs	345 kg
Operating weight with drive cap above	17,345 lbs	7 834 kg

Capacities

Fuel tank	16.8 gal	63.5 l
Lube oil tank	4.6 gal	17.5 l

Dimensions

Hammer length (L)	16.9 ft	5 160 mm
Length with trip guides (GL)	20.8 ft	6 325 mm
Length at max stroke (OL)	24.4 ft	7 445 mm
Overall width (W)	32.3 in	820 mm
Standard box leads width (LW)	26 in	660 mm
Overall depth (CR + CF)	34.0 in	863 mm
Centerline to rear (CR)	18.8 in	477 mm
Centerline to front (CF)	15.2 in	386 mm

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INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

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ICE® MODEL I-30^{v2}

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
33	13.22	87,471	287	332	365	390	410	427	442	456	468	478	488	497	505	513	520	527	534	540	545
34	12.46	82,401	277	321	352	377	397	413	428	441	452	463	472	481	489	497	504	510	516	522	528
35	11.76	77,760	267	310	341	365	384	400	414	427	438	448	457	466	474	481	488	494	500	506	511
36	11.11	73,500	259	300	330	353	372	388	401	414	424	434	443	451	459	466	473	479	485	491	496
37	10.52	69,581	250	291	320	342	360	376	389	401	412	421	430	438	445	452	459	465	471	476	481
38	9.97	65,967	242	282	310	332	350	365	378	389	399	409	417	425	432	439	445	451	457	462	467
39	9.47	62,627	235	273	301	322	339	354	367	378	388	397	405	413	420	427	433	438	444	449	454
40	9.00	59,535	228	265	292	313	330	344	356	367	377	386	394	401	408	415	421	426	431	437	441
41	8.57	56,666	221	258	284	304	320	334	346	357	367	375	383	390	397	403	409	415	420	425	429
42	8.16	54,000	215	250	276	295	312	325	337	347	357	365	373	380	386	392	398	404	409	413	418
43	7.79	51,518	208	243	268	287	303	316	328	338	347	355	363	370	376	382	388	393	398	403	407
44	7.44	49,202	203	237	261	280	295	308	319	329	338	346	354	360	367	372	378	383	388	392	397
45	7.11	47,040	197	230	254	272	287	300	311	321	330	337	345	351	357	363	368	373	378	382	387
46	6.81	45,017	192	224	247	265	280	293	303	313	321	329	336	342	348	354	359	364	369	373	377
47	6.52	43,122	186	218	241	259	273	285	296	305	313	321	328	334	340	345	350	355	360	364	368
48	6.25	41,344	181	213	235	252	266	278	289	298	306	313	320	326	332	337	342	347	351	355	359
49	6.00	39,673	177	207	229	246	260	272	282	291	299	306	312	318	324	329	334	339	343	347	351
50	5.76	38,102	172	202	224	240	254	265	275	284	292	299	305	311	317	322	326	331	335	339	343
51	5.54	36,623	168	197	218	234	248	259	269	277	285	292	298	304	309	314	319	323	328	332	335
52	5.33	35,228	164	193	213	229	242	253	263	271	278	285	291	297	302	307	312	316	320	324	328
53	5.13	33,911	160	188	208	224	237	247	257	265	272	279	285	291	296	301	305	309	313	317	321

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.