

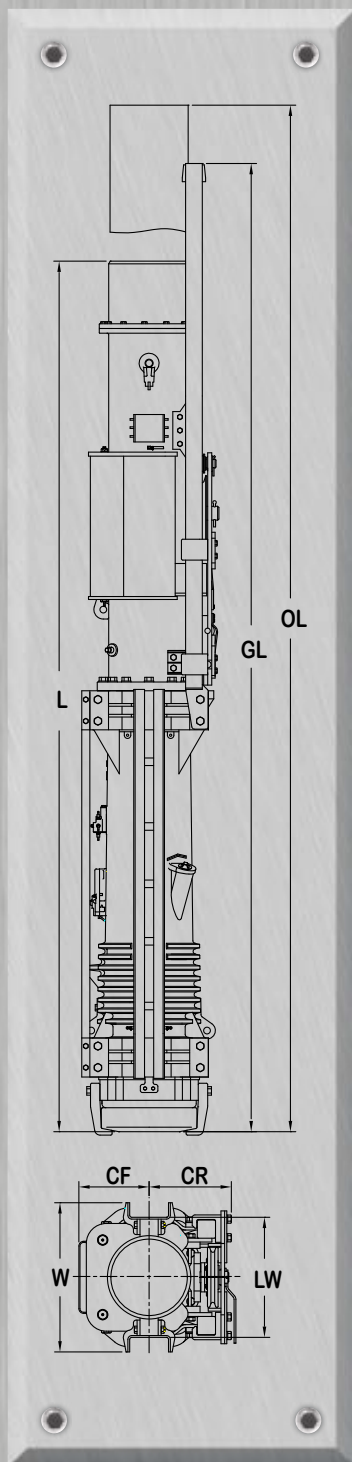
ICE[®] MODEL I-36^{v2}

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	7,940 lbs	3 600 kg
Rated energy (fuel setting 4)	93,740 ft-lbs	127 090 Nm
Stroke at rated energy (fuel setting 4)	11.81 feet	3 600 mm
Energy at fuel setting 3	83,325 ft-lbs	112 970 Nm
Energy at fuel setting 2	75,510 ft-lbs	102 380 Nm
Energy at fuel setting 1	67,700 ft-lbs	91 790 Nm
Energy at maximum stroke	103,740 ft-lbs	140 650 Nm
Maximum geometric stroke	13.07 feet	3 985 mm
Blows per minute	35-52	

Weights

Bare hammer with trip	19,480 lbs	8 835 kg
Hammer with box lead guides	21,065 lbs	9 555 kg
Drive cap base	DCB-2HD	
Drive cap base weight	1,670 lbs	758 kg
Striker plate	845 lbs	383 kg
Cushion material	134 lbs	61 kg
Pile insert	DCC-16	
Pile insert weight	1,260 lbs	572 kg
Operating weight with drive cap above	24,974 lbs	11 329 kg

Capacities

Fuel tank	21.9 gal	83 l
Lube oil tank	4.5 gal	17 l

Dimensions

Hammer length (L)	18.8 ft	5 740 mm
Length with trip guides (GL)	21.0 ft	6 415 mm
Length at max stroke (OL)	23.6 ft	7 190 mm
Overall width (W)	37.6 in	954 mm
Standard box leads width (LW)	32 in	813 mm
Overall depth (CR + CF)	36.1 in	918 mm
Centerline to rear (CR)	18.8 in	478 mm
Centerline to front (CF)	17.3 in	440 mm

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INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

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ICE® MODEL I-36^{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
34	12.46	98,907	308	356	391	418	439	458	474	488	500	512	522	532	541	549	557	564	571	577	583
35	11.76	93,336	298	345	378	404	425	443	459	472	485	496	506	515	524	532	539	546	553	559	565
36	11.11	88,222	288	334	366	392	412	430	445	458	470	481	490	499	508	516	523	530	536	542	548
37	10.52	83,518	279	324	355	380	400	417	431	444	456	466	476	485	493	500	507	514	520	526	532
38	9.97	79,180	270	314	344	368	388	404	419	431	442	453	462	470	478	486	493	499	505	511	517
39	9.47	75,172	262	304	334	358	377	393	407	419	430	440	449	457	465	472	479	485	491	497	502
40	9.00	71,460	254	296	325	347	366	382	395	407	418	427	436	444	452	459	466	472	478	483	488
41	8.57	68,017	247	287	316	338	356	371	384	396	406	416	424	432	440	447	453	459	465	470	475
42	8.16	64,816	240	279	307	328	346	361	374	385	396	405	413	421	428	435	441	447	452	458	463
43	7.79	61,837	233	271	299	320	337	351	364	375	385	394	402	410	417	423	430	435	441	446	451
44	7.44	59,058	227	264	291	311	328	342	355	366	375	384	392	400	406	413	419	424	430	435	439
45	7.11	56,462	221	257	283	303	320	334	346	356	366	374	382	390	396	402	408	414	419	424	428
46	6.81	54,034	215	250	276	296	312	325	337	347	357	365	373	380	387	393	398	404	409	413	418
47	6.52	51,759	209	244	269	288	304	317	329	339	348	356	364	371	377	383	389	394	399	404	408
48	6.25	49,625	204	238	262	281	297	310	321	331	340	348	355	362	368	374	380	385	390	394	399
49	6.00	47,620	198	232	256	274	290	302	313	323	332	340	347	354	360	366	371	376	381	385	389
50	5.76	45,734	193	226	250	268	283	295	306	316	324	332	339	346	352	357	362	367	372	376	381
51	5.54	43,958	189	221	244	262	276	288	299	309	317	325	331	338	344	349	354	359	364	368	372
52	5.33	42,284	184	216	238	256	270	282	292	302	310	317	324	330	336	342	347	351	356	360	364
53	5.13	40,703	180	211	233	250	264	276	286	295	303	310	317	323	329	334	339	344	348	352	356

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.