

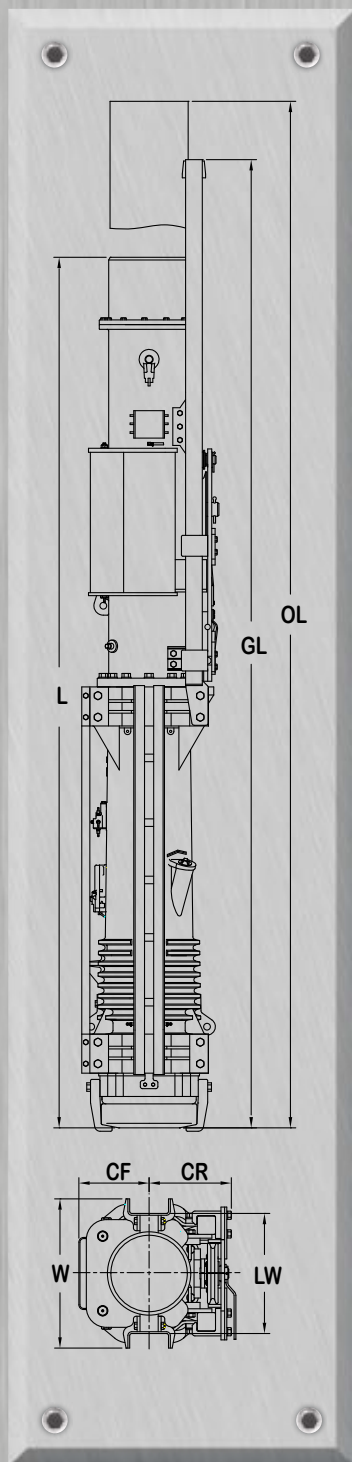
ICE[®] MODEL I-100^{v2}

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	22,050	lbs	10 000	kg
Rated energy (fuel setting 4)	260,385	ft-lbs	353 040	Nm
Stroke at rated energy (fuel setting 4)	11.81	feet	3 600	mm
Energy at fuel setting 3	231,450	ft-lbs	313 800	Nm
Energy at fuel setting 2	209,755	ft-lbs	284 390	Nm
Energy at fuel setting 1	188,050	ft-lbs	254 970	Nm
Energy at maximum stroke	330,760	ft-lbs	448 460	Nm
Maximum geometric stroke	15.00	feet	4 575	mm
Blows per minute	35-45			

Weights

Bare hammer with trip	43,025	lbs	19 515	kg
Hammer with box lead guides	45,325	lbs	20 560	kg
Drive cap base	DCB-3HD			
Drive cap base weight	2,340	lbs	1 061	kg
Striker plate	1,410	lbs	640	kg
Cushion material	192	lbs	87	kg
Pile insert	DCC-24			
Pile insert weight	1,775	lbs	805	kg
Operating weight with drive cap above	51,042	lbs	23 153	kg

Capacities

Fuel tank	34.1	gal	129.1	l
Lube oil tank	11.5	gal	43.5	l

Dimensions

Hammer length (L)	22.4	ft	6 835	mm
Length with trip guides (GL)	24.9	ft	7 600	mm
Length at max stroke (OL)	30.7	ft	9 355	mm
Overall width (W)	42.3	in	1 074	mm
Standard box leads width (LW)	36	in	914	mm
Overall depth (CR + CF)	45.6	in	1 159	mm
Centerline to rear (CR)	26.1	in	662	mm
Centerline to front (CF)	19.6	in	497	mm

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INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

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ICE® MODEL I-100^{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	312,225	586	672	733	781	819	852	880	905	928	948	967	984	999	1014	1028	1041	1053	1064	1075
34	12.46	294,129	567	651	710	756	794	826	853	877	899	919	937	953	968	983	996	1008	1020	1031	1042
35	11.76	277,561	550	631	689	733	770	801	827	851	872	891	908	924	939	953	966	978	990	1000	1011
36	11.11	262,356	533	612	668	711	747	777	803	826	846	865	882	897	912	925	938	950	961	971	981
37	10.52	248,366	517	594	649	691	725	755	780	802	822	840	857	872	886	899	911	923	933	944	953
38	9.97	235,466	502	577	630	671	705	733	758	780	799	817	833	848	861	874	886	897	908	918	927
39	9.47	223,546	488	561	613	653	686	713	737	758	777	795	810	825	838	850	862	873	883	893	902
40	9	212,508	475	546	596	635	667	694	718	738	757	773	789	803	816	828	839	850	860	869	878
41	8.57	202,268	462	531	580	619	650	676	699	719	737	753	768	782	795	806	817	828	838	847	856
42	8.16	192,751	450	517	565	603	633	659	681	701	718	734	749	762	774	786	797	807	816	825	834
43	7.79	183,890	438	504	551	587	617	642	664	683	700	716	730	743	755	767	777	787	796	805	813
44	7.44	175,626	427	492	537	573	602	627	648	667	683	699	712	725	737	748	758	768	777	786	794
45	7.11	167,908	416	480	524	559	588	612	632	651	667	682	695	708	719	730	740	750	759	767	775
46	6.81	160,687	406	468	512	546	574	597	618	635	652	666	679	691	703	713	723	732	741	749	757
47	6.52	153,922	397	457	500	533	560	583	603	621	637	651	664	676	687	697	707	716	724	732	740
48	6.25	147,575	387	447	489	521	548	570	590	607	622	636	649	661	671	681	691	700	708	716	723
49	6	141,613	378	436	478	509	536	558	577	593	609	622	635	646	657	667	676	684	693	700	708
50	5.76	136,005	370	427	467	498	524	545	564	581	595	609	621	632	643	652	661	670	678	685	693
51	5.54	130,724	362	417	457	487	513	534	552	568	583	596	608	619	629	638	647	656	663	671	678
52	5.33	125,744	354	408	447	477	502	522	540	556	571	583	595	606	616	625	634	642	650	657	664
53	5.13	121,044	346	400	438	467	491	512	529	545	559	571	583	594	603	612	621	629	637	644	650

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.