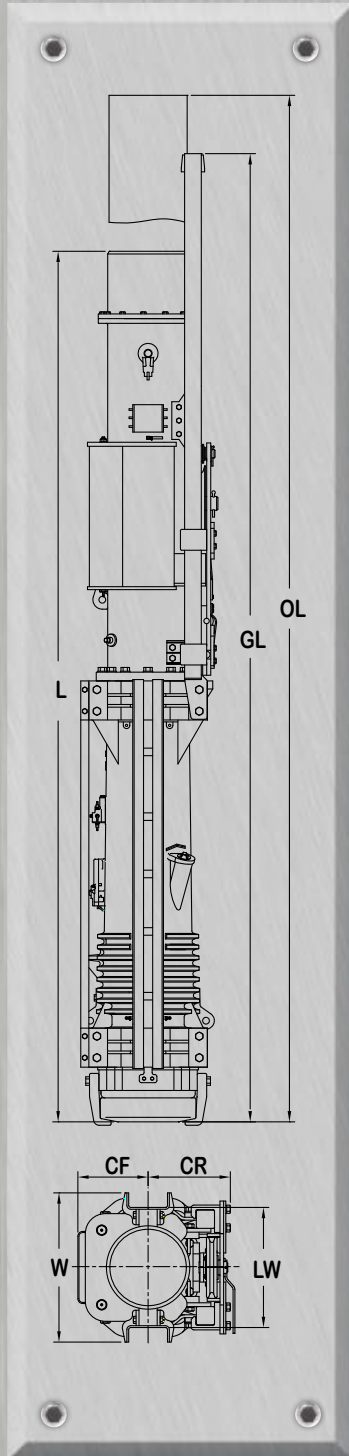


ICE[®] MODEL I-46^{v2} SINGLE-ACTING DIESEL PILE HAMMER



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	10,141	lbs	4600	kg
Rated energy (fuel setting 4)	119,780	ft-lbs	162 400	Nm
Stroke at rated energy (fuel setting 4)	11.81	feet	3600	mm
Energy at fuel setting 3	106,470	ft-lbs	144 350	Nm
Energy at fuel setting 2	96,490	ft-lbs	130 820	Nm
Energy at fuel setting 1	86,500	ft-lbs	117 290	Nm
Energy at maximum stroke	132,550	ft-lbs	179 720	Nm
Maximum geometric stroke	13.07	feet	3985	mm
Blows per minute	35-52			

Weights

Bare hammer with trip	21,682	lbs	9835	kg
Hammer with box lead guides	23,270	lbs	10555	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	27,179	lbs	12329	kg

Capacities

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

Dimensions

Hammer length (L)	18.8	ft	5740	mm
Length with trip guides (GL)	21.0	ft	6415	mm
Length at max stroke (OL)	26.0	ft	7915	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-46^{V2} SINGLE-ACTING DIESEL PILE HAMMER BEARING CHART



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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.

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

Where:

R_u = Ultimate pile bearing (tons)
 E = Rated hammer energy in ft-lbs, or (ram weight x 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
34	12.46	126,374	355	409	448	478	503	524	542	558	572	585	597	608	618	627	636	644	652	659	666
35	11.76	119,256	343	396	434	463	487	508	525	541	554	567	578	589	598	608	616	624	631	639	645
36	11.11	112,722	332	384	421	449	472	492	509	524	538	550	561	571	580	589	598	605	613	619	626
37	10.52	106,711	322	372	408	436	458	477	494	509	522	533	544	554	563	572	580	588	595	601	608
38	9.97	101,169	312	361	396	423	445	464	480	494	507	518	529	538	547	556	563	571	578	584	590
39	9.47	96,047	303	351	384	411	432	450	466	480	492	504	514	523	532	540	548	555	562	568	574
40	9	91,305	294	341	374	399	420	438	453	467	479	490	500	509	517	525	533	540	546	552	558
41	8.57	86,905	286	331	363	388	409	426	441	454	466	477	486	495	504	511	519	525	532	538	544
42	8.16	82,816	278	322	353	378	398	415	429	442	454	464	474	482	490	498	505	512	518	524	529
43	7.79	79,009	270	313	344	368	387	404	418	431	442	452	461	470	478	485	492	499	505	510	516
44	7.44	75,459	263	305	335	358	377	393	407	420	431	441	450	458	466	473	480	486	492	498	503
45	7.11	72,142	256	297	327	349	368	384	397	409	420	430	439	447	454	461	468	474	480	486	491
46	6.81	69,040	249	290	318	341	359	374	388	399	410	419	428	436	443	450	457	463	469	474	479
47	6.52	66,133	243	282	310	332	350	365	378	390	400	409	418	426	433	440	446	452	457	463	468
48	6.25	63,406	237	275	303	324	342	357	369	381	391	400	408	416	423	429	436	441	447	452	457
49	6	60,845	231	269	296	317	334	348	361	372	382	391	399	406	413	420	426	431	437	442	447
50	5.76	58,435	225	262	289	309	326	340	353	363	373	382	390	397	404	410	416	422	427	432	437
51	5.54	56,166	220	256	282	302	319	333	345	355	365	373	381	388	395	401	407	413	418	423	427
52	5.33	54,027	215	250	276	296	312	325	337	347	357	365	373	380	386	393	398	404	409	413	418
53	5.13	52,007	210	245	270	289	305	318	330	340	349	357	365	372	378	384	390	395	400	405	409

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.