

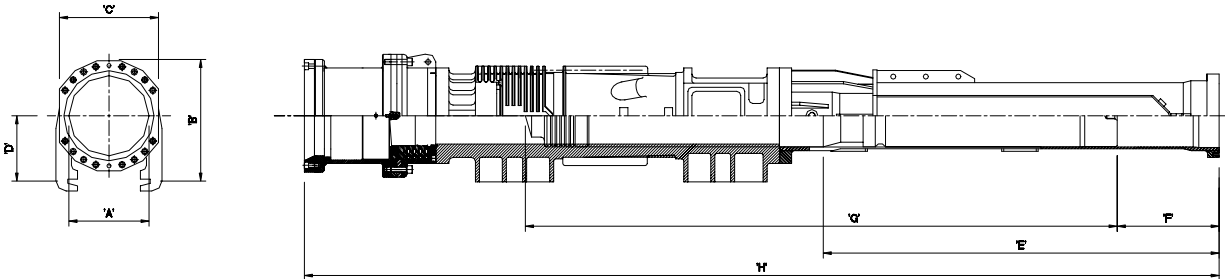
## B-4505 General Specifications

<b>Performance</b>		
Ram Weight X Max. Stroke	75,900 ft•lb	103 kN•m
Impact energy	47,400 ft•lb	64 kN•m
Ram weight/mass	6,600 lb	3,000 kg
Maximum ram stroke	11.5 ft	3.5 m
Impact block weight/mass	1,326 lbs	601 kg
Blows per minute	36-60	36-60
<b>Operating Weight</b>		
Total operating weight/mass	17,600 lb	7,982 kg
Weight of tool box	150 lb	68 kg
Total shipping weight/mass	17,750 lb	8,050 kg
<b>Capacity</b>		
Fuel tank capacity	20 gal (U.S)	76 liters
Fuel consumption	2.1gal/hr.	7.9 liters/hr.
Oil tank capacity	6.1gal (U.S)	23 liters
Oil consumption	0.24 gal/hr.	0.9 liters/hr.



*Impact Hammers B-4505*

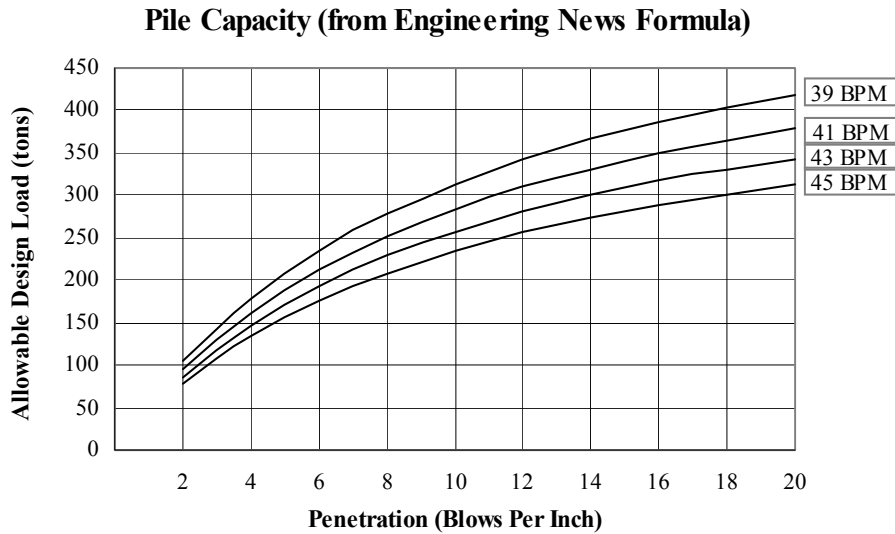
## Dimensional Specifications



Dimensions		Model-4505						
Units	A	B	C	D	E	F	G	H
Imperial	21.5 in	34 in	26 in	18 in	110 in	37.8 in	145.5 in	228.5 in
Metric	546 mm	864 mm	660 mm	457 mm	2794 mm	960 mm	3696 mm	5804 mm

<b>B-4505</b>					
<b>6600 lb Piston</b>					
BPM	Stroke (ft)	Potential Energy (ft.lb)	Velocity (ft/s)	Maximum Impact Force (tons)	Impact Energy (ft.lb)
35	11.8	77,900	22.5	535	54,530
36	11.2	73,920	22.0	524	49,600
37	10.6	69,960	21.5	512	47,400
38	10.0	66,000	21.0	501	45,200
39	9.5	62,700	20.5	589	43,100
40	9.0	59,400	20.0	477	41,000
41	8.6	56,760	19.5	465	39,000
42	8.2	54,120	19.0	453	37,000
43	7.8	51,480	18.5	441	35,100
44	7.5	49,500	18.0	429	33,200
45	7.1	46,860	17.5	417	31,400

Stroke height is a function of soil resistance and may not be attainable in certain driving conditions.  
 Standard Operating Range.



**WEAP Input Data**

<b>Ram</b>			<b>Stroke</b>				
Weight	Length	Diameter	Maximum	Minimum	Efficiency		
6.60 Kips	145.50 in	15.11 in	11.80 ft.	4.00	0.800		
<b>Impact Block Information</b>							
Weight	Length	Diameter	C.o.R	RoundOut			
1.33 Kips	27.25 in	14.80 in	0.900	0.0100			
<b>Diesel Hammer Combustion Chamber Information</b>							
Combustion Chamber Inf.			Combustion		A I Volume		
C-Stroke	Area	Volume	Delay	Duration	ExpCoef	Ignition	Fin.Comb
19.14 in	185.15 in <sup>2</sup>	290.10 in <sup>3</sup>	0.000	0.000	1.250	319.1 in <sup>3</sup>	383.4 in <sup>3</sup>
<b>Pressure</b>							
Atmospher	FS 1	FS 2	FS 3	FS 4	FS 5	Coeff. Conf.	
14.70 psi	1400 psi	1300 psi	1200 psi	1100 psi	1000 psi.	1.0	
<b>Helmet And Hammer Cushion Properties</b>							
Helmet		Hammer Cushion					
Weight	Material	WEAP Input	CoR	Cushion Area	Thickness		
2.40 Kips	Steel	30000 Ksi	0.70	346 in <sup>2</sup>	6.00 in		

