

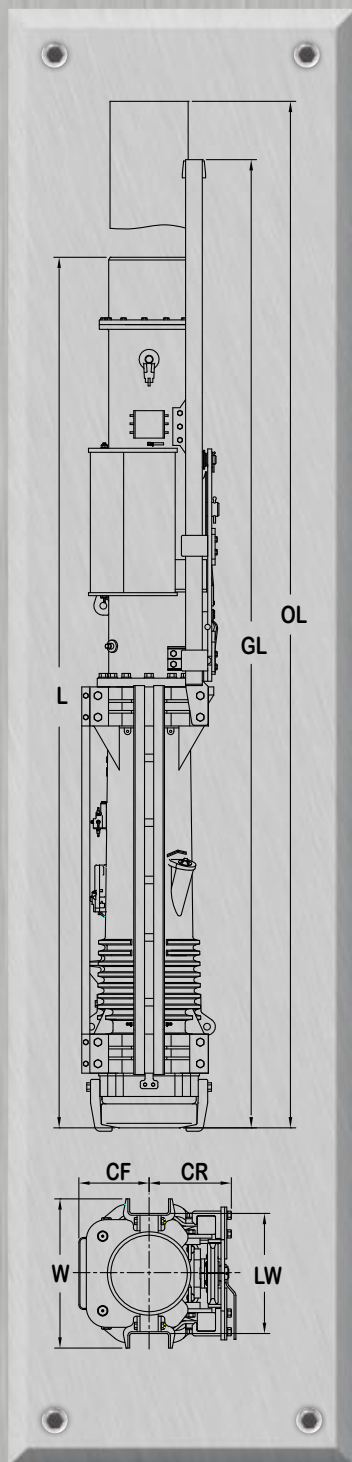
# ICE<sup>®</sup> MODEL I-125<sup>v2</sup>

## SINGLE-ACTING DIESEL PILE HAMMER



Simple, reliable design  
Automatic lubrication  
Optional variable fuel control  
Optional hydraulic trip

Equipped with ICE<sup>®</sup> Box leads guides  
Uses standard ICE<sup>®</sup> drive caps  
Swinging, fixed and sliding leads available  
Spotters available for precise pile positioning



### Working Specifications

|                                         |                |            |
|-----------------------------------------|----------------|------------|
| Ram weight                              | 27,560 lbs     | 12 500 kg  |
| Rated energy (fuel setting 4)           | 316,940 ft-lbs | 429 710 Nm |
| Stroke at rated energy (fuel setting 4) | 11.50 feet     | 3 430 mm   |
| Energy at fuel setting 3                | 280,275 ft-lbs | 380 010 Nm |
| Energy at fuel setting 2                | 244,100 ft-lbs | 330 975 Nm |
| Energy at fuel setting 1                | 226,030 ft-lbs | 306 460 Nm |
| Energy at maximum stroke                | 411,910 ft-lbs | 558 490 Nm |
| Maximum geometric stroke                | 14.95 feet     | 4 555 mm   |
| Blows per minute                        | 35-45          |            |

### Weights

|                                       |            |           |
|---------------------------------------|------------|-----------|
| Bare hammer with trip                 | 57,700 lbs | 26 170 kg |
| Hammer with box lead guides           | 60,030 lbs | 27 230 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 | 65,747 lbs | 29 823 kg |

### Capacities

|               |          |        |
|---------------|----------|--------|
| Fuel tank     | 48.9 gal | 185 l  |
| Lube oil tank | 11.5 gal | 43.5 l |

### Dimensions

|                               |         |          |
|-------------------------------|---------|----------|
| Hammer length (L)             | 23.0 ft | 7 000 mm |
| Length with trip guides (GL)  | 23.5 ft | 7 150 mm |
| Length at max stroke (OL)     | 29.6 ft | 9 000 mm |
| Overall width (W)             | 47.6 in | 1 210 mm |
| Standard box leads width (LW) | 42 in   | 1 067 mm |
| Overall depth (CR + CF)       | 51.9 in | 1 318 mm |
| Centerline to rear (CR)       | 30.8 in | 783 mm   |
| Centerline to front (CF)      | 21.1 in | 535 mm   |

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# INTERNATIONAL CONSTRUCTION EQUIPMENT, INC.

Corporate offices: 301 Warehouse Drive, Matthews, NC USA  
Phones: 888 ICEUSA1, 704 821-8200

info@iceusa.com  
www.iceusa.com

# ICE® MODEL I-125<sup>v2</sup>

## SINGLE-ACTING DIESEL PILE HAMMER

### BEARING CHART



888-ICE-USA1  
sales@iceusa.com  
www.iceusa.com

| Blows<br>per<br>Minute | Ram<br>Stroke | Hammer<br>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   |
| 32                     | 14.06         | 386,719          | 658                       | 754 | 822 | 874 | 918 | 954 | 986 | 1013 | 1038 | 1061 | 1081 | 1100 | 1118 | 1134 | 1149 | 1164 | 1177 | 1190 | 1202 |
| 33                     | 13.22         | 363,636          | 636                       | 729 | 795 | 846 | 888 | 924 | 954 | 981  | 1005 | 1027 | 1047 | 1065 | 1082 | 1098 | 1113 | 1127 | 1140 | 1152 | 1164 |
| 34                     | 12.46         | 342,561          | 616                       | 706 | 770 | 820 | 861 | 895 | 925 | 951  | 974  | 995  | 1015 | 1033 | 1049 | 1064 | 1079 | 1092 | 1105 | 1117 | 1128 |
| 35                     | 11.76         | 323,265          | 597                       | 685 | 747 | 795 | 835 | 868 | 897 | 922  | 945  | 966  | 984  | 1002 | 1018 | 1033 | 1047 | 1060 | 1072 | 1084 | 1095 |
| 36                     | 11.11         | 305,556          | 579                       | 664 | 725 | 772 | 810 | 842 | 870 | 895  | 917  | 937  | 956  | 972  | 988  | 1003 | 1016 | 1029 | 1041 | 1052 | 1063 |
| 37                     | 10.52         | 289,262          | 562                       | 645 | 704 | 750 | 787 | 818 | 846 | 870  | 891  | 911  | 928  | 945  | 960  | 974  | 987  | 1000 | 1011 | 1022 | 1033 |
| 38                     | 9.97          | 274,238          | 546                       | 627 | 684 | 728 | 765 | 795 | 822 | 845  | 866  | 885  | 903  | 919  | 933  | 947  | 960  | 972  | 983  | 994  | 1004 |
| 39                     | 9.47          | 260,355          | 531                       | 609 | 665 | 709 | 744 | 774 | 800 | 823  | 843  | 861  | 878  | 894  | 908  | 922  | 934  | 946  | 957  | 967  | 977  |
| 40                     | 9             | 247,500          | 516                       | 593 | 647 | 690 | 724 | 753 | 778 | 801  | 821  | 839  | 855  | 870  | 884  | 897  | 909  | 921  | 932  | 942  | 952  |
| 41                     | 8.57          | 235,574          | 503                       | 577 | 630 | 672 | 705 | 734 | 758 | 780  | 799  | 817  | 833  | 848  | 861  | 874  | 886  | 897  | 908  | 918  | 927  |
| 42                     | 8.16          | 224,490          | 489                       | 562 | 614 | 654 | 687 | 715 | 739 | 760  | 779  | 796  | 812  | 826  | 840  | 852  | 864  | 875  | 885  | 895  | 904  |
| 43                     | 7.79          | 214,170          | 477                       | 548 | 599 | 638 | 670 | 697 | 721 | 741  | 760  | 777  | 792  | 806  | 819  | 831  | 843  | 853  | 863  | 873  | 882  |
| 44                     | 7.44          | 204,545          | 465                       | 535 | 584 | 622 | 654 | 680 | 703 | 723  | 741  | 758  | 773  | 787  | 799  | 811  | 822  | 833  | 842  | 852  | 861  |
| 45                     | 7.11          | 195,556          | 453                       | 522 | 570 | 607 | 638 | 664 | 686 | 706  | 724  | 740  | 755  | 768  | 780  | 792  | 803  | 813  | 823  | 832  | 840  |
| 46                     | 6.81          | 187,146          | 442                       | 509 | 556 | 593 | 623 | 648 | 670 | 690  | 707  | 723  | 737  | 750  | 762  | 774  | 784  | 794  | 804  | 813  | 821  |
| 47                     | 6.52          | 179,267          | 432                       | 497 | 544 | 579 | 609 | 634 | 655 | 674  | 691  | 706  | 720  | 733  | 745  | 756  | 767  | 776  | 786  | 794  | 802  |
| 48                     | 6.25          | 171,875          | 422                       | 486 | 531 | 566 | 595 | 619 | 640 | 659  | 676  | 691  | 704  | 717  | 729  | 739  | 750  | 759  | 768  | 777  | 785  |
| 49                     | 6             | 164,931          | 412                       | 475 | 519 | 554 | 582 | 606 | 626 | 644  | 661  | 675  | 689  | 701  | 713  | 723  | 733  | 743  | 751  | 760  | 768  |
| 50                     | 5.76          | 158,400          | 403                       | 464 | 508 | 542 | 569 | 593 | 613 | 631  | 646  | 661  | 674  | 686  | 697  | 708  | 718  | 727  | 735  | 744  | 751  |
| 51                     | 5.54          | 152,249          | 394                       | 454 | 497 | 530 | 557 | 580 | 600 | 617  | 633  | 647  | 660  | 672  | 683  | 693  | 703  | 712  | 720  | 728  | 736  |
| 52                     | 5.33          | 146,450          | 386                       | 445 | 486 | 519 | 545 | 568 | 587 | 604  | 620  | 634  | 646  | 658  | 669  | 679  | 688  | 697  | 705  | 713  | 721  |
| 53                     | 5.13          | 140,975          | 377                       | 435 | 476 | 508 | 534 | 556 | 575 | 592  | 607  | 621  | 633  | 645  | 655  | 665  | 674  | 683  | 691  | 699  | 706  |

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.