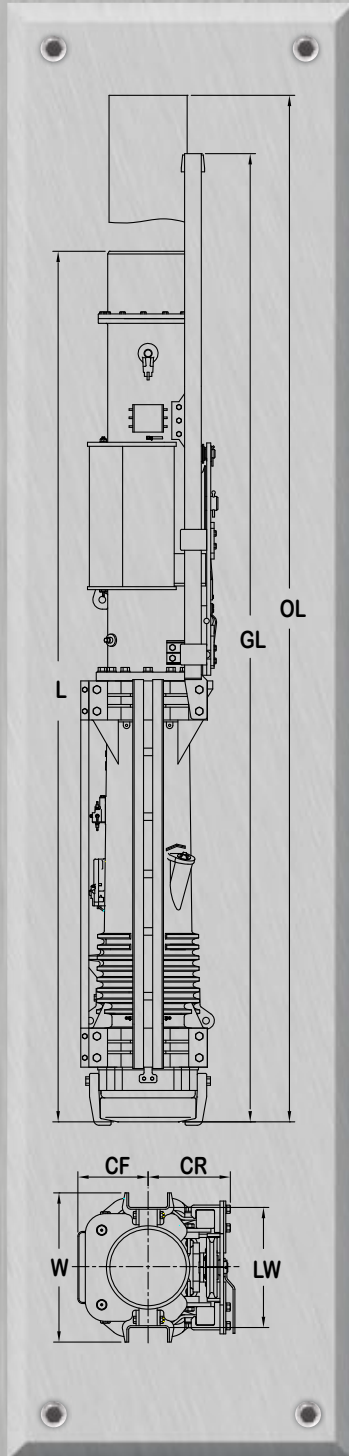


ICE[®] MODEL I-80^{v2} SINGLE-ACTING DIESEL PILE HAMMER



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 | 17,640 lbs | 8 000 kg |
| Rated energy (fuel setting 4) | 208,300 ft-lbs | 282 430 Nm |
| Stroke at rated energy (fuel setting 4) | 11.81 feet | 3 600 mm |
| Energy at fuel setting 3 | 185,160 ft-lbs | 251 050 Nm |
| Energy at fuel setting 2 | 167,800 ft-lbs | 227 510 Nm |
| Energy at fuel setting 1 | 150,440 ft-lbs | 203 980 Nm |
| Energy at maximum stroke | 264,600 ft-lbs | 358 760 Nm |
| Maximum geometric stroke | 15.00 feet | 4 575 mm |
| Blows per minute | 35-45 | |

Weights

| | | |
|---------------------------------------|------------|-----------|
| Bare hammer with trip | 38,615 lbs | 17 515 kg |
| Hammer with box lead guides | 40,915 lbs | 18 560 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 | 46,632 lbs | 21 153 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) | 27.1 ft | 8 275 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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ICE[®] MODEL I-80^{v2}

SINGLE-ACTING DIESEL PILE HAMMER

BEARING CHART



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| 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 |
| 33 | 13.22 | 234,050 | 501 | 575 | 628 | 669 | 703 | 731 | 756 | 777 | 797 | 814 | 830 | 845 | 858 | 871 | 883 | 894 | 905 | 915 | 924 |
| 34 | 12.46 | 220,484 | 485 | 557 | 608 | 648 | 681 | 708 | 732 | 753 | 772 | 789 | 804 | 819 | 832 | 844 | 856 | 866 | 877 | 886 | 895 |
| 35 | 11.76 | 208,065 | 469 | 540 | 589 | 628 | 660 | 686 | 710 | 730 | 748 | 765 | 780 | 794 | 807 | 819 | 830 | 840 | 850 | 860 | 868 |
| 36 | 11.11 | 196,667 | 455 | 523 | 572 | 609 | 640 | 666 | 688 | 708 | 726 | 742 | 757 | 770 | 783 | 794 | 805 | 815 | 825 | 834 | 843 |
| 37 | 10.52 | 186,180 | 441 | 508 | 555 | 591 | 621 | 647 | 669 | 688 | 705 | 721 | 735 | 748 | 760 | 772 | 782 | 792 | 801 | 810 | 819 |
| 38 | 9.97 | 176,510 | 428 | 493 | 539 | 575 | 604 | 628 | 650 | 668 | 685 | 700 | 714 | 727 | 739 | 750 | 760 | 770 | 779 | 788 | 796 |
| 39 | 9.47 | 167,574 | 416 | 479 | 524 | 559 | 587 | 611 | 632 | 650 | 666 | 681 | 695 | 707 | 719 | 729 | 739 | 749 | 758 | 766 | 774 |
| 40 | 9 | 159,300 | 404 | 466 | 509 | 543 | 571 | 594 | 615 | 632 | 648 | 663 | 676 | 688 | 699 | 710 | 720 | 729 | 738 | 746 | 754 |
| 41 | 8.57 | 151,624 | 393 | 453 | 496 | 529 | 556 | 579 | 598 | 616 | 631 | 646 | 658 | 670 | 681 | 691 | 701 | 710 | 718 | 726 | 734 |
| 42 | 8.16 | 144,490 | 383 | 441 | 483 | 515 | 541 | 564 | 583 | 600 | 615 | 629 | 642 | 653 | 664 | 674 | 683 | 692 | 700 | 708 | 715 |
| 43 | 7.79 | 137,847 | 373 | 430 | 470 | 502 | 528 | 549 | 568 | 585 | 600 | 613 | 625 | 637 | 647 | 657 | 666 | 675 | 683 | 690 | 698 |
| 44 | 7.44 | 131,653 | 363 | 419 | 459 | 489 | 515 | 536 | 554 | 570 | 585 | 598 | 610 | 621 | 631 | 641 | 650 | 658 | 666 | 673 | 681 |
| 45 | 7.11 | 125,867 | 354 | 409 | 447 | 477 | 502 | 523 | 541 | 557 | 571 | 584 | 595 | 606 | 616 | 626 | 634 | 642 | 650 | 657 | 664 |
| 46 | 6.81 | 120,454 | 345 | 399 | 437 | 466 | 490 | 510 | 528 | 543 | 557 | 570 | 581 | 592 | 602 | 611 | 619 | 627 | 635 | 642 | 649 |
| 47 | 6.52 | 115,383 | 337 | 389 | 426 | 455 | 479 | 498 | 516 | 531 | 544 | 557 | 568 | 578 | 588 | 597 | 605 | 613 | 620 | 627 | 634 |
| 48 | 6.25 | 110,625 | 329 | 380 | 416 | 444 | 467 | 487 | 504 | 519 | 532 | 544 | 555 | 565 | 575 | 583 | 591 | 599 | 606 | 613 | 620 |
| 49 | 6 | 106,156 | 321 | 371 | 407 | 434 | 457 | 476 | 493 | 507 | 520 | 532 | 543 | 553 | 562 | 570 | 578 | 586 | 593 | 600 | 606 |
| 50 | 5.76 | 101,952 | 313 | 363 | 398 | 425 | 447 | 465 | 482 | 496 | 509 | 520 | 531 | 541 | 550 | 558 | 566 | 573 | 580 | 587 | 593 |
| 51 | 5.54 | 97,993 | 306 | 355 | 389 | 415 | 437 | 455 | 471 | 485 | 498 | 509 | 520 | 529 | 538 | 546 | 554 | 561 | 568 | 574 | 580 |
| 52 | 5.33 | 94,260 | 300 | 347 | 380 | 406 | 428 | 446 | 461 | 475 | 487 | 498 | 509 | 518 | 527 | 535 | 542 | 549 | 556 | 562 | 568 |
| 53 | 5.13 | 90,737 | 293 | 339 | 372 | 398 | 419 | 436 | 452 | 465 | 477 | 488 | 498 | 507 | 516 | 524 | 531 | 538 | 544 | 551 | 556 |

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 × 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.