

Lone Star ALS
Counterweight position on crank

| Lone Star | | C640D-305-168 | | Y-series | |
|---------------------------------------|--|--|--|--|--|
| Qty of Cwts | Cwt position * on crank arm | ECB, lbs. @168" stroke, at position | ECB, lbs. @144" stroke, at position | ECB, lbs. @121" stroke, at position | |
| Counterweight No.: 2 (3 bolts) | | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 | |
| 4 | 10 | 7,933 | 8,996 | 10,488 | |
| 4 | 20 | 10,078 | 11,440 | 13,354 | |
| 4 | 30 | 12,223 | 13,885 | 16,219 | |
| 4 | 40 | 14,368 | 16,330 | 19,085 | |
| 4 | 50 | 16,512 | 18,775 | 21,950 | |
| 4 | 60 | 18,657 | 21,220 | 24,815 | |
| 4 | 70 | 20,802 | 23,665 | 27,681 | |
| 4 | max 80.5 | 23,054 | 26,232 | 30,689 | |
| 2 | 10 | 6,860 | 7,773 | 9,056 | |
| 2 | 20 | 7,933 | 8,996 | 10,488 | |
| 2 | 30 | 9,005 | 10,218 | 11,921 | |
| 2 | 40 | 10,078 | 11,440 | 13,354 | |
| 2 | 50 | 11,150 | 12,663 | 14,786 | |
| 2 | 60 | 12,223 | 13,885 | 16,219 | |
| 2 | 70 | 13,295 | 15,108 | 17,652 | |
| 2 | max 80.5 | 14,421 | 16,391 | 19,156 | |
| Counterweight No.: 3 (3 bolts) | | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 | |
| 4 | 10 | 7,612 | 8,630 | 10,060 | |
| 4 | 20 | 9,437 | 10,710 | 12,498 | |
| 4 | 30 | 11,261 | 12,790 | 14,935 | |
| 4 | 40 | 13,086 | 14,870 | 17,373 | |
| 4 | 50 | 14,910 | 16,949 | 19,810 | |
| 4 | 60 | 16,735 | 19,029 | 22,247 | |
| 4 | 70 | 18,559 | 21,109 | 24,685 | |
| 4 | 80 | 20,384 | 23,188 | 27,122 | |
| 4 | max 83.5 | 21,023 | 23,916 | 27,975 | |
| 2 | 10 | 5,788 | 7,591 | 8,842 | |
| 2 | 20 | 6,700 | 8,630 | 10,060 | |
| 2 | 30 | 7,612 | 9,670 | 11,279 | |
| 2 | 40 | 8,525 | 10,710 | 12,498 | |
| 2 | 50 | 9,437 | 11,750 | 13,716 | |
| 2 | 60 | 10,349 | 12,790 | 14,935 | |
| 2 | 70 | 11,261 | 13,830 | 16,154 | |
| 2 | 80 | 12,174 | 14,870 | 17,373 | |
| 2 | max 83.5 | 13,405 | 15,233 | 17,799 | |
| Counterweight No.: 4 (3 bolts) | | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 | |
| 4 | 10 | 7,442 | 8,436 | 9,832 | |
| 4 | 20 | 9,096 | 10,321 | 12,042 | |

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| | | | | |
|---------------------------------------|----------|--------|--------|--------|
| 4 | 30 | 10,750 | 12,206 | 14,251 |
| 4 | 40 | 12,403 | 14,092 | 16,461 |
| 4 | 50 | 14,057 | 15,977 | 18,670 |
| 4 | 60 | 15,711 | 17,862 | 20,880 |
| 4 | 70 | 17,365 | 19,747 | 23,089 |
| 4 | 80 | 19,019 | 21,632 | 25,298 |
| 4 | max 83.5 | 19,598 | 22,292 | 26,072 |
| 2 | 10 | 6,615 | 7,493 | 8,728 |
| 2 | 20 | 7,442 | 8,436 | 9,832 |
| 2 | 30 | 8,269 | 9,378 | 10,937 |
| 2 | 40 | 9,096 | 10,321 | 12,042 |
| 2 | 50 | 9,923 | 11,264 | 13,147 |
| 2 | 60 | 10,750 | 12,206 | 14,251 |
| 2 | 70 | 11,577 | 13,149 | 15,356 |
| 2 | 80 | 12,403 | 14,092 | 16,461 |
| 2 | max 83.5 | 12,693 | 14,421 | 16,847 |
| Counterweight No.: 5 (2 bolts) | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 |
| 4 | 10 | 7,197 | 8,150 | 9,498 |
| 4 | 20 | 8,594 | 9,750 | 11,372 |
| 4 | 30 | 9,998 | 11,349 | 13,247 |
| 4 | 40 | 11,401 | 12,949 | 15,122 |
| 4 | 50 | 12,804 | 14,548 | 16,996 |
| 4 | 60 | 15,208 | 16,148 | 18,871 |
| 4 | 70 | 15,611 | 17,748 | 20,746 |
| 4 | 80 | 17,014 | 19,347 | 22,620 |
| 4 | max 83.5 | 17,505 | 19,907 | 23,276 |
| 2 | 10 | 6,490 | 7,350 | 8,560 |
| 2 | 20 | 7,191 | 8,150 | 9,498 |
| 2 | 30 | 7,893 | 8,950 | 10,435 |
| 2 | 40 | 8,594 | 9,750 | 11,372 |
| 2 | 50 | 9,296 | 10,550 | 12,310 |
| 2 | 60 | 9,998 | 11,349 | 13,247 |
| 2 | 70 | 10,699 | 12,149 | 14,184 |
| 2 | 80 | 11,401 | 12,949 | 15,122 |
| 2 | max 83.5 | 11,647 | 13,229 | 15,450 |
| Counterweight No.: 6 (2 bolts) | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 |
| 4 | 10 | 6,909 | 7,828 | 9,120 |
| 4 | 20 | 8,029 | 9,105 | 10,617 |
| 4 | 30 | 9,150 | 10,383 | 12,114 |
| 4 | 40 | 10,270 | 11,660 | 13,611 |
| 4 | 50 | 11,391 | 12,937 | 15,108 |
| 4 | 60 | 12,511 | 14,215 | 16,605 |
| 4 | 70 | 13,632 | 15,492 | 18,102 |
| 4 | 80 | 14,753 | 16,769 | 19,599 |

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| | | | | |
|---------------------------------------|----------|--------|--------|--------|
| 4 | max 85.6 | 15,383 | 17,488 | 20,441 |
| 2 | 10 | 6,348 | 7,189 | 8,371 |
| 2 | 20 | 6,909 | 7,828 | 9,120 |
| 2 | 30 | 7,469 | 8,467 | 9,868 |
| 2 | 40 | 8,029 | 9,105 | 10,617 |
| 2 | 50 | 8,589 | 9,744 | 11,365 |
| 2 | 60 | 9,150 | 10,383 | 12,114 |
| 2 | 70 | 9,710 | 11,021 | 12,862 |
| 2 | 80 | 10,270 | 11,660 | 13,611 |
| 2 | max 85.6 | 10,585 | 12,019 | 14,032 |
| Counterweight No.: 7 (2 bolts) | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 |
| 4 | 10 | 6,628 | 7,509 | 8,746 |
| 4 | 20 | 7,469 | 8,467 | 9,868 |
| 4 | 30 | 8,309 | 9,425 | 10,991 |
| 4 | 40 | 9,150 | 10,383 | 12,114 |
| 4 | 50 | 9,990 | 11,341 | 13,237 |
| 4 | 60 | 10,831 | 12,299 | 14,359 |
| 4 | 70 | 11,671 | 13,257 | 15,482 |
| 4 | 80 | 12,511 | 14,215 | 16,605 |
| 4 | max 88.5 | 13,226 | 15,029 | 17,559 |
| 2 | 10 | 6,208 | 7,030 | 8,184 |
| 2 | 20 | 6,628 | 7,509 | 8,746 |
| 2 | 30 | 7,049 | 7,988 | 9,307 |
| 2 | 40 | 7,469 | 8,467 | 9,868 |
| 2 | 50 | 7,889 | 8,946 | 10,430 |
| 2 | 60 | 8,309 | 9,425 | 10,991 |
| 2 | 70 | 8,729 | 9,904 | 11,553 |
| 2 | 80 | 9,150 | 10,383 | 12,114 |
| 2 | max 88.5 | 9,507 | 10,790 | 12,591 |
| Counterweight No.: 8 (2 bolts) | | | | |
| cranks only | | 5,788 | 6,551 | 7,623 |
| 4 | 10 | 6,348 | 7,189 | 8,371 |
| 4 | 20 | 6,909 | 7,828 | 9,120 |
| 4 | 30 | 7,469 | 8,467 | 9,868 |
| 4 | 40 | 8,029 | 9,105 | 10,617 |
| 4 | 50 | 8,589 | 9,744 | 11,365 |
| 4 | 60 | 9,150 | 10,383 | 12,114 |
| 4 | 70 | 9,710 | 11,021 | 12,862 |
| 4 | 80 | 10,270 | 11,660 | 13,611 |
| 4 | max 92 | 10,943 | 12,426 | 14,509 |
| 2 | 10 | 6,068 | 6,870 | 7,997 |
| 2 | 20 | 6,348 | 7,189 | 8,371 |
| 2 | 30 | 6,628 | 7,509 | 8,746 |
| 2 | 40 | 6,909 | 7,828 | 9,120 |

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| | | | | |
|---|--------|-------|-------|--------|
| 2 | 50 | 7,189 | 8,147 | 9,494 |
| 2 | 60 | 7,469 | 8,467 | 9,868 |
| 2 | 70 | 7,749 | 8,786 | 10,243 |
| 2 | 80 | 8,029 | 9,105 | 10,617 |
| 2 | max 92 | 8,365 | 9,489 | 11,066 |