

Lone Star		RM640D-365-168		straight crank arm	COA= 9	SU = -360
Qty of Cwts	Cwt position * on crank arm	ECB, lbs. @168" stroke, at position	ECB, lbs. @139" stroke, at position	ECB, lbs. @112" stroke, at position		
Counterweight No.: 0 (3 bolts)						
cranks only		7,983	9,492	11,694		
4	10.7	11,460	13,633	16,804		
4	20	14,482	17,232	21,246		
4	30	17,732	21,102	26,022		
4	40	20,981	24,972	30,798		
4	50	24,231	28,842	35,574		
4	60	27,481	32,712	40,351		
4	70	30,730	36,582	45,127		
4	max 75	32,355	38,517	47,515		
2	10.7	9,722	11,562	14,249		
2	20	11,233	13,362	16,470		
2	30	12,858	15,297	18,858		
2	40	14,482	17,232	21,246		
2	50	16,107	19,167	23,634		
2	60	17,732	21,102	26,022		
2	70	19,357	23,037	28,410		
2	max 75	20,169	24,004	29,604		
Counterweight No.: 2#0+2#1 (3 bolts)						
2+2	10.7	11,156	13,270	16,357		
2+2	20	13,914	16,554	20,410		
2+2	30	16,879	20,086	24,769		
2+2	40	19,844	23,617	29,127		
2+2	50	22,809	27,148	33,485		
2+2	60	25,775	30,680	37,843		
2+2	70	28,740	34,211	42,201		
2+2	max 75\78	30,625	36,456	44,972		
Counterweight No.: 2#0+2#2 (3 bolts)						
2+2	10.7	10,865	12,924	15,930		
2+2	20	13,370	15,907	19,612		
2+2	30	16,064	19,115	23,571		
2+2	40	18,758	22,323	27,530		
2+2	50	21,451	25,531	31,489		
2+2	60	24,145	28,739	35,448		
2+2	70	26,838	31,947	39,407		
2+2	max 75\80.5	28,773	34,251	42,250		
Counterweight No.: (2)#1 & (2)#3						

2+2	10.7	10,327	12,283	15,139
2+2	20	12,483	14,850	18,307
2+2	30	14,733	17,530	21,614
2+2	40	16,982	20,209	24,921
2+2	50	19,232	22,888	28,227
2+2	60	21,482	25,568	31,534
2+2	70	23,732	28,247	34,841
2+2	max 78\83.5	26,032	30,986	38,221
Counterweight No.: 1 (3 bolts)				
cranks only		7,983	9,492	11,694
4	10.7	10,852	12,908	15,910
4	20	13,345	15,877	19,574
4	30	16,026	19,070	23,515
4	40	18,707	22,263	27,455
4	50	21,388	25,455	31,395
4	60	24,069	28,648	35,336
4	70	26,749	31,841	39,276
4	max 78	28,894	34,395	42,428
2	10.7	9,418	11,200	13,802
2	20	10,664	12,684	15,634
2	30	12,005	14,281	17,604
2	40	13,345	15,877	19,574
2	50	14,685	17,473	21,545
2	60	16,026	19,070	23,515
2	70	17,366	20,666	25,485
2	max 78	18,439	21,943	27,061
Counterweight No.: 2 (3 bolts)				
cranks only		7,983	9,492	11,694
4	10	10,121	12,037	14,836
4	20	12,258	14,583	17,977
4	30	14,396	17,129	21,119
4	40	16,534	19,675	24,261
4	50	18,671	22,220	27,403
4	60	20,809	24,766	30,545
4	70	22,946	27,312	33,686
4	max 80.5	25,191	29,985	36,985
2	10	9,052	10,764	13,265
2	20	10,121	12,037	14,836
2	30	11,190	13,310	16,407
2	40	12,258	14,583	17,977
2	50	13,327	15,856	19,548
2	60	14,396	17,129	21,119
2	70	15,465	18,402	22,690
2	max 80.5	16,587	19,738	24,340

Counterweight No.: 3 (3 bolts)				
cranks only		7,983	9,492	11,694
4	10	9,802	11,658	14,367
4	20	11,621	13,824	17,040
4	30	13,439	15,990	19,713
4	40	15,258	18,156	22,386
4	50	17,077	20,322	25,060
4	60	18,896	22,488	27,733
4	70	20,714	24,654	30,406
4	80	22,533	26,820	33,079
4	max 83.5	23,170	27,578	34,015
2	10	8,893	10,575	13,030
2	20	9,802	11,658	14,367
2	30	10,711	12,741	15,704
2	40	11,621	13,824	17,040
2	50	12,530	14,907	18,377
2	60	13,439	15,990	19,713
2	70	14,349	17,073	21,050
2	80	15,258	18,156	22,386
2	max 83.5	15,576	18,535	22,854
Counterweight No.: 4 (3 bolts)				
cranks only		7,983	9,492	11,694
4	10	9,632	11,455	14,117
4	20	11,281	13,418	16,540
4	30	12,929	15,382	18,963
4	40	14,578	17,345	21,386
4	50	16,226	19,309	23,810
4	60	17,875	21,272	26,233
4	70	19,524	23,236	28,656
4	80	21,172	25,199	31,079
4	max 83.5	21,749	25,886	31,927
2	10	8,808	10,473	12,905
2	20	9,632	11,455	14,117
2	30	10,456	12,437	15,329
2	40	11,281	13,418	16,540
2	50	12,105	14,400	17,752
2	60	12,929	15,382	18,963
2	70	13,753	16,364	20,175
2	80	14,578	17,345	21,386
2	max 83.5	14,866	17,689	21,810
Counterweight No.: 5 (2 bolts)				
cranks only		7,983	9,492	11,694
4	10	9,382	11,158	13,750
4	20	10,781	12,823	15,806
4	30	12,180	14,489	17,862

4	40	13,579	16,155	19,918
4	50	14,977	17,821	21,974
4	60	16,376	19,487	24,030
4	70	17,775	21,153	26,086
4	80	19,174	22,819	28,142
4	max 83.5	19,663	23,402	28,861
2	10	8,683	10,325	12,722
2	20	9,382	11,158	13,750
2	30	10,081	11,990	14,778
2	40	10,781	12,823	15,806
2	50	11,480	13,656	16,834
2	60	12,180	14,489	17,862
2	70	12,879	15,322	18,890
2	80	13,579	16,155	19,918
2	max 83.5	13,823	16,447	20,278
Counterweight No.: 6 (2 bolts)				
cranks only		7,983	9,492	11,694
4	10	9,103	10,825	13,339
4	20	10,222	12,158	14,985
4	30	11,342	13,492	16,630
4	40	12,462	14,825	18,276
4	50	13,581	16,158	19,922
4	60	14,701	17,492	21,567
4	70	15,820	18,825	23,213
4	80	16,940	20,158	24,858
4	max 85.6	17,567	20,905	25,780
2	10	8,543	10,158	12,517
2	20	9,103	10,825	13,339
2	30	9,663	11,492	14,162
2	40	10,222	12,158	14,985
2	50	10,782	12,825	15,808
2	60	11,342	13,492	16,630
2	70	11,902	14,158	17,453
2	80	12,462	14,825	18,276
2	max 85.6	12,775	15,198	18,737
Counterweight No.: 7 (2 bolts)				
cranks only		7,983	9,492	11,694
4	10	8,823	10,491	12,927
4	20	9,662	11,491	14,161
4	30	10,501	12,490	15,395
4	40	11,340	13,490	16,628
4	50	12,180	14,489	17,862
4	60	13,019	15,489	19,095
4	70	13,858	16,488	20,329

4	80	14,698	17,488	21,563
4	max 88.5	15,411	18,338	22,611
2	10	8,403	9,991	12,311
2	20	8,823	10,491	12,927
2	30	9,242	10,991	13,544
2	40	9,662	11,491	14,161
2	50	10,081	11,990	14,778
2	60	10,501	12,490	15,395
2	70	10,921	12,990	16,011
2	80	11,340	13,490	16,628
2	max 88.5	11,697	13,915	17,153
Counterweight No.: 8 (2 bolts)				
cranks only		7,983	9,492	11,694
4	10	8,599	10,225	12,598
4	20	9,214	10,957	13,503
4	30	9,829	11,690	14,407
4	40	10,445	12,423	15,312
4	50	11,060	13,156	16,216
4	60	11,676	13,889	17,121
4	70	12,291	14,622	18,025
4	80	12,906	15,355	18,930
4	max 92	13,645	16,234	20,015
2	10	8,291	9,858	12,146
2	20	8,599	10,225	12,598
2	30	8,906	10,591	13,051
2	40	9,214	10,957	13,503
2	50	9,522	11,324	13,955
2	60	9,829	11,690	14,407
2	70	10,137	12,057	14,860
2	80	10,445	12,423	15,312
2	max92	10,814	12,863	15,854