# COUNTERBALANCE EFFECT AT POLISH ROD WITH #6468-B CRANKS

#### STRUCTURE UNBALANCE OF 400# INCLUDED BELOW

										With #68 Mai	n & Filler Weights	With #50 Ma	in & Filler Weights	
										Constitution of the Personal Property and Assessment Property of the Personal Property of the Pe	ounds	Pounds		
									¥ =	CBE	Actual Weight	CBE	Actual Weight	
										@	of	@	of	
										74" Stroke	Counterweights	74" Stroke	Counterweights	
Cran	ks O	nly	7							3,970		3,970		
Cran	ıks Pi	lus	1 N	/lair	n Weight					5,030	735	4,750	550	
Cran	ıks P	lus	21	/lair	n Weights	S				6,080	1,470	5,530	1,100	
Cranks Plus 3 Main Weights										7,140	2,205	6,310	1,650	
Cran	ıks P	lus	41	//air	n Weights	S				8,190	2,940	7,090	2,200	
Crar	ıks P	lus	41	//air	n Weights	s and	11 F	'ille	r Weight	8,610	3,238	7,490	2,485	
· in	- 11	1	4	.11	· (11	11	2	11	11	9,030	3,536	7,890	2,770	
- 11	11		4	11	11	11	3	11	11	9,440	3,834	8,290	3,055	
-11	ij	!	4	:11	11	11	4	F1	11	9,860	4,132	8,690	3,340	
'n	11	1	4	11	ŧi	11	5	11	11	10,280	4,430	9,090	3,625	
91	11	t	4	11	11	11	6	11	11	10,700	4,728	9,490	3,910	
11	11		4	.11	11	11	7	11	11	11,110	5,026	9,890	4,195	
11	11	1	4	11	» II »	11	8	.11	11	11,530	5,324	10,290	4,480	
11	11	9	4	-11	11	11	9	11		11,950	5,622	10,690	4,765	
11	11	•	4	11	- 99	***	10	11	11	12,370	5,920	11,090	5,050	
11	11	1	4	11	- 11	11	11	11	tt.	12,780	6,218	11,490	5,355	
11		1	4	31		11	12	111	11	13,200	6,516	11,890	5,620	

(Over)

See Reverse Side for #78 Weights with Maximum CBE of 14,350#

# COUNTERBALANCE EFFECT AT POLISH ROD WITH #6468-B CRANKS

# STRUCTURE UNBALANCE OF 400# INCLUDED BELOW

									With #78 Ma	in & Filler Weights
									P	ounds
									CBE	Actual Weight
									@	of
									74" Stroke	Counterweights
Crank	s Only	7							3,970	
Crank	s Plus	1 1	Main	Weight					5,005	,795
Crank	s Plus	2	Main	Weights					6,040	1,590
Crank	s Plus	3 :	Main	Weights		1			7,075	2,385
Crank	s Plus	4	Main	Weights					8,110	3,180
Crank	s Plus	4	Main	Weights	and	d 1 F	ille	er Weight	8,630	3,585
11		4	11	11	11	2	11	īi .	9,150	3,990
11	n	4	11		11	3	11	II.	9,670	4,395
11.	, n	4	ŢĦ	. <u>u</u>	11	4	11	11	10,190	4,800
11	. u.	4	11	u	11	5	11	11	10,710	5,205
11		4	11	11	11	6	ш	11	11,230	5,610
. 11	11	4	11	11	11	7	11	ii.	11,750	6,015
~ <u>0</u>	"	4	11	II	11	8	"	III.	12,270	6,420
11		4	u	11	11	9	11	II	12,790	6,825
ш	п	4	11	ш	11	10	11	ai	13,310	7,230
11	11	4	11	u u	11	11	11	11	13,830	7,635
. 11	11	4.	11	11	11	12	ŋ	. 11	14,350	8,040

NOTE: The #78 Weights used on Crank #6468 require special stop bolts to prevent weights from extending beyond the ends of the cranks.

### COUNTERBALANCE EFFECT AT POLISH ROD WITH #7478-B CRANKS

### STRUCTURE UNBALANCE OF 900# INCLUDED BELOW

-										With #78 Main	n & Filler Weights	With #68 Main	n & Filler Weights	
										Po	unds	Pounds		
										CBE	Actual Weight	CBE	Actual Weight	
										@	of	@	of	
										74" Stroke	Counterweights	74" Stroke	Counterweights	
С	ranks	onl	у							5,850		5,850		
С	ranks	Plu	s 1	Main V	Veight					7,170	795	7,090	735	
С	ranks	Plu	s 2	Main W	/eights					8,500	1,590	8,340	1,470	
С	ranks	Plu	3	Main W	/eights					9,820	2,385	9,580	2,205	
C	ranks	Plus	4	Main W	/eights					11,140	3,180	10,820	2,940	
Cranks Plus 4 Main Weights and 1 Filler Weight										11,810	3,585	11,310	3,238	
	111	11	4	11	11	11	2	ii a	11	12,480	3,990	11,810	3,536	
	11	11	4	11	11	11	3	11	11	13,140	4,395	12,300	3,834	
	.11	-11	4	41	**	11	4	11	11	13,810	4,800	12,790	4,132	
	"m	, 11	4	41	11.	11	5	11	11	14,480	5,205	13,280	4,430	
	11	11	4	11	11	ti	6	11	11	15,140	5,610	13,780	4,728	
	11	111	4	11	11	11	7	11	11	15,810	6,015	14,270	5,026	
	11	11 ·	4	41	11	. 11	8	11	99	16,470	6,420	14,760	5,324	
	:11	111	4		-15	11	9	*1	11	17,140	6,825	15,260	5,622	
	-,0	111	4	.11	.11	11	10	11	11	17,810	7,230	15,750	5,920	
	*1	11	4	11	**	11	11	Ħ	11	18 <b>,4</b> 70	7,635	16,250	6,218	
	11	:11	4	.11	11	11	12	"m"	11	19,140	8,040	16,740	6,516	
	11	п	4	U «	11	11	13	11	11.	19,810	8,445	17,230	6,814	
	ц.	<u>u</u> ,	4	11	11	11	14	11	tt	20,480	8,850	17,720	7,112	

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# COUNTERBALANCE EFFECT AT POLISH ROD WITH #7478-B CRANKS

#### STRUCTURE UNBALANCE OF 500# INCLUDED BELOW

								With #78 Mai	n& Filler Weights	With #68 Main & Filler Weights Pounds		
								Po	ounds			
								CBE	Actual Weight	CBE	Actual Weight	
								@	of	@	of	
								86" Stroke	Counterweights	86" Stroke	Counterweights	
Crank	s Onl	у						4,780		4,780		
Crank	s Plus	s 1 Main	Weight					5,920	795	5,860	735	
Crank	s Plu	s 2 Main	Weight	ts				7,070	1,590	6,930	1,470	
Crank	s Plus	3 Main	Weight	ts				8,210	2,385	8,010	2,205	
Crank	s Plus	4 Main	Weight	ts .				9,350	3,180	9,080	2,940	
Crank	s Plus	s 4 Main	Weight	ts and	11F	iller	Weight	2,930	3,585	9,510	3,238	
; · · · · · · · · ·	» <b>11°</b>	4 11	***	u	2	11	11	10,510	3,990	9,930	3,536	
11	11	4 "	11	11	3	11	11	11,080	4,395	10,360	3,834	
.11	. 11	4 "	11	11	: 4	11	"	11,660	4,800	10,780	4,132	
11	11	4 "	-11	11	5	11	. и	12,240	5,205	11,210	4,430	
11	***************************************	4 11	311	11	6	Ħ	11	12,810	5,610	11,640	4,728	
11	11	4 11	11	11	7	11	и.	13,390	6,015	12,060	5,026	
11	11	4 .11		ü	8	11	п	13,960	6,420	12,490	5,324	
	11	4 "	**	11	9	11	ŢĹ.	14,540	6,825	12,920	5,622	
11	11	4 "	11	11	10	ш	ú	15,120	7,230	13,350	5,920	
<u>11</u>	11	4 11	11	11	11	11	п,	15,690	7,635	13,770	6,218	
11	11	4 11	88	11	12	11	***	16,270	§,Q40	14,200	6,1516	
11	11	4 "	" 11	11	13	11	11	16,850	8,445	14,630	6,814	
. 11	11	4. "	11	11	14	u	=u	17,430	8,850	15,060	7,112	