# COUNTERBALANCE EFFECT AT POLISH ROD WITH #4246-B CRANKS STRUCTURE UNBALANCE OF 600# INCLUDED BELOW

	With #46 Main & Filler Weights			
	Pounds			
	CBE	Actual Weight		
	@	of		
	42" Stroke	Counterweights		
Cranks Only	2,660			
Cranks Plus 1 Main Weight	3,345	475		
Cranks Plus 2 Main Weights	4,030	950		
Cranks Plus 3 Main Weights	4,715	1,425		
Cranks Plus 4 Main Weights	5,400	1,900		
Cranks Plus 4 Main Weights and 1 Filler Weight	5,745	2,150		
Cranks Plus 4 Main Weights and 2 Filler Weights	6,090	2,400		
Cranks Plus 4 Main Weights and 3 Filler Weights	6,435	2,650		
Cranks Plus 4 Main Weights and 4 Filler Weights	6,780	2,900		
Cranks Plus 4 Main Weights and 5 Filler Weights	7,120	3,150		
Cranks Plus 4 Main Weights and 6 Filler Weights	7,465	3,400		
Cranks Plus 4 Main Weights and 7 Filler Weights	7,807	3,650		
Cranks Plus 4 Main Weights and 8 Filler Weights	8,150	3,900		
Cranks Plus 4 Main Weights and 9 Filler Weights	8,495	4,150		
Cranks Plus 4 Main Weights and 10 Filler Weights	8,840	4,400		
Cranks Plus 4 Main Weights and 11 Filler Weights	9,185	4,650		
Cranks Plus 4 Main Weights and 12 Filler Weights	9,530	4,900		

# COUNTERBALANCE EFFECT AT POLISH ROD AT MAXIMUM STROKE AS WEIGHTS ARE MOVED TOWARD CRANKSHAFT FROM END OF CRANK

#### STRUCTURE UNBALANCE OF 600# INCLUDED BELOW

Distance of Counterweights From Crank End	4 Main Weights Only #46	4 Main and 4 Filler Wts. #46	4 Main and 8 Filler Wts. #46	4 Main and 12 Filler Wts. #46	1 Filler Weight Only #46
0"	5,400	6,780	8,150	9,530	345
6"	4,860	5,855	7,035	8,130	275
12"	4,315	5,125	5,920	6,730	200
16" (Max.)	3,950	4,570	5,180	5,800	155

For 32" Stroke Multiply Above CBE Values By 1.28

For 22" Stroke Multiply Above CBE Values By 1.83

80-95-48 57-95-48

### COUNTERBALANCE EFFECT AT POLISH ROD WITH #4246-B CRANKS

### STRUCTURE UNBALANCE OF 400# INCLUDED BELOW

	With #46 Main & Filler Weights		
	Pounds		
	CBE	Actual Weight	
	@	of	
	48" Stroke	Counterweights	
Cranks Only	2,200		
Cranks Plus 1 Main Weight	2,800	475	
Cranks Plus 2 Main Weights	3,400	950	
Cranks Plus 3 Main Weights	4,000	1,425	
Cranks Plus 4 Main Weights	4,600	1,900	
Cranks Plus 4 Main Weights and 1 Filler Weight	4,900	2,150	
Cranks Plus 4 Main Weights and 2 Filler Weights	5,200	2,400	
Cranks Plus 4 Main Weights and 3 Filler Weights	5,500	2,650	
Cranks Plus 4 Main Weights and 4 Filler Weights	5,800	2,900	
Cranks Plus 4 Main Weights and 5 Filler Weights	6,100	3,150	
Cranks Plus 4 Main Weights and 6 Filler Weights	6,405	3,400	
Cranks Plus 4 Main Weights and 7 Filler Weights	6,710	3,650	
Cranks Plus 4 Main Weights and 8 Filler Weights	7,010	3,900	
Cranks Plus 4 Main Weights and 9 Filler Weights	7,310	4,150	
Cranks Plus 4 Main Weights and 10 Filler Weights	7,610	4,400	
Cranks Plus 4 Main Weights and 11 Filler Weights	7,910	4,650	
Cranks Plus 4 Main Weights and 12 Filler Weights	8,210	4,900	
Cranks Plus 4 Main Weights and 13* Filler Weights	8,510	5,150	
Cranks Plus 4 Main Weights and 14* Filler Weights	8,810	5,400	

\*For 80 Reducer Only

## COUNTERBALANCE EFFECT AT POLISH ROD AT MAXIMUM STROKE AS WEIGHTS ARE MOVED TOWARD CRANKSHAFT FROM END OF CRANK

#### STRUCTURE UNBALANCE OF 400# INCLUDED BELOW

Distance of	4 Main Weights Only #46	4 Main and	4 Main and	4 Main and	1 Filler
Counterweights		4 Filler Wts.	8 Filler Wts.	12 Filler Wts.	Weight Only
From Crank End		#46	#46	#46	#46
0"	4,600	5,800	7,010	8,210	300
6"	4,150	5,075	6,035	6,960	235
12"	3,650	4,350	5,060	5,760	175
16" (Max.)	3,335	3,870	4,410	4,945	135

For 37" Stroke Multiply Above CBE Values By 1.29

For 25" Stroke Multiply Above CBE Values By 1.85