



SENTRY

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ISO 9002

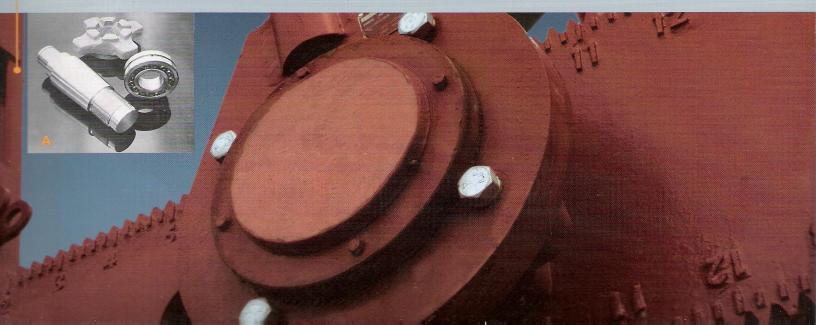


Equalizer beam bearing assembly: Unmatched in the industry for strength and durability, the assembly features machined ductile iron castings, oversized double row, self aligning roller bearing, metal to metal seals and large lubrication reservoirs. Sentry's design ensures constant equalization of loads to the pitman arms and crank pins. Proven, easy to maintain and extremely reliable in the long term.

Pump strong. Pump sure. Pump Sentry.

For 40 years Sentry pumping units have proven themselves in the field. Rugged, dependable, engineered for long and efficient use, Sentry units are simple to operate and easy to maintain. With dozens of models and hundreds of configurations, these units adapt to widely varied and

Crank pins: Pins assemblies feature oversized self-aligning double roller bearings mounted in machined ductile iron housings. Hardened, ground tapers of extended length on the high-tensile steel wrist pins (A) create additional surface contact. Cast steel knockoff pin nuts are standard on all units.





Horsehead: Fitted with a robust steel casting to provide full bridle support, the horsehead is easily attached and removed for well servicing. **Brake:** Equipped with a positive-stop locking pawl, the Sentry brake ensures totally safe lockouts during inclement weather and regular maintenance. **Counterbalance weights and crank arms:** Massive crank arms utilize integral T-slots and graduated markings for fast easy attachment and positioning of counterweights. The cast rack and pinion locks the weights in place. Simply. Safely. Surely.

highly specialized production requirements. These units mean fast, painless assembly, efficiency, and economy. Then, at the heart of the matter, there's smooth, smooth performance from Sentry's Massive Double Helical, involute gear reducer that significantly exceeds all API and ISO 9002

standards. You expect and receive low-maintenance, high output capacity day to day and quiet trouble-free operation year to year.

Center beam bearing assembly: Constructed of fully machined ductile iron, the casting houses over-sized self aligning roller bearings and a large lubricant reservoir, angular gussets transfer vertical and torsional stresses to the walking beam.





Model		C114 - 173 - 64			
Load Rating lbs		17, 300			
Basic Parameter	Stroke length in	64/54/40			
	Max stroke frequency r/min	12			
	Rated torque in. lbs	114, 000			
	Balanced type	Crank balanced			
	Crank direction	Counterclockwise			
Gear Reducer	Rated torque in lbs	114,000			
	Model		114D		
	Gear type	Divided - flow type, herringbone, involute gear reducer			
	Gear ratio	29. 818			
	Center range in	25. 59			
	Center height in	16. 93			
	Oil storage quantity U.S. gal	29			
	Lubricant	120#gear lubricant in winter 150#gear lubricant in summer			
	Big pulley diameter in	30			
	Pwuey groove type	4C			
	Weight of counterweight lbs	1543 × 4			
Balance	Weight of crank lbs	2006 × 2			
Assembly	Radius of crank in	31.1	25. 6	19. 7	
	Stroke length relevant to crank radius in	64	54	40	
	Туре	6 × 19s – 26 – 180			
Wire Line	Length in	228			
Structure Unbalance Ibs		1060			
Overall Dimensions Length × Width × Height in		327 × 72 × 206			
		(Nature gas engine configured)			
Total Wei	Total Weight lbs		28160 (Nature gas engine configured and Ex. engine)		

Model		C160 - 200 - 74			
Load Rating lbs		20, 000			
Basic Parameter	Stroke length in	74/64/53			
	Max stroke frequency r/min	12			
	Rated torque in. lbs	160, 000			
	Balanced type	Crank balanced			
	Crank direction	Counterclockwise			
Gear Reducer	Rated torque in. lbs	160, 000			
	Model	160D			
	Gear type	Divided - flow type, herringbone, involute gear reducer			
	Gear ratio	28. 506			
	Center range in	29. 53			
	Center height in	17. 72			
	Oil storage quantity U.S. gal	37			
	Lubricant	120#gear lubricant in winter			
	Big pulley diameter in	150#gear lubricant in summer 30			
	Pwuey groove type	4C			
	Weight of counterweight lbs	2204 × 4			
Balance	Weight of crank lbs	2094 × 2			
Assembly	Radius of crank in	36. 2	31.3	26. 4	
	Stroke length relevant to crank radius in	74	64	53	
	Туре	6 × 37 – 28 – 170			
Wire Line	Length in	274			
Structure Unbalance lbs		1070			
Overall Dimensions Length × Width × Height in		382 × 95 × 237 (Nature gas engine configured)			
Total Weight lbs		27190 (Nature gas engine configured and Ex. engine)			

	Model		C228 - 256 - 100	
	Load Rating lbs		25, 600	
Basic Parameter	Stroke length in	100/85/70		
	Max stroke frequency r/min	12		
	Rated torque in. lbs	228, 000		
	Balanced type	Crank balanced		
	Crank rotate direction	Counterclockwise		
Gear Reducer	Rated torque in. lbs	228, 000		
	Model		228D	
	Gear type	Divided - flow ty	pe, herringbone, invo	lute gear reducer
	Gear ratio	28. 873		
	Center range in	33. 46		
	Center height in	19. 69		
	Oil storage quantity U.S. gal	42. 8		
	Lubricant	120#gear lubricant in winter		
	Big pulley diameter in	150#gear lubricant in summer 36		
	Pwuey groove type	4C		
	Weight of counterweight lbs	2370 × 4		
Balance	Weight of crank lbs	3196 × 2		
Assembly	Radius of crank in	41.9	35. 8	29. 7
	Stroke length relevant to crank radius in	100	85	70
	Туре	6 × 37 – 32 – 170		
Wire Line	Length in	358		
Structure Unbalance lbs		990		
Overall Dimensions Length × Width × Height in		436 × 110 × 287 (Nature gas engine configured)		
Total Weight lbs		43000 (Nature gas engine configured and Ex. engine)		

	Model		C320 - 305 - 120		
Load Rating lbs		30, 500			
Basic Parameter	Stroke length in	120/99/78			
	Max stroke frequency r/min	12			
	Rated torque in. lbs	320, 000			
	Balanced type	Crank balanced			
	Crank direction	Counterclockwise			
Gear Reducer	Rated torque in. Ibs	320, 000			
	Model	320D			
	Gear type	Divided - flow type, herringbone, involute gear reducer			
	Gear ratio	28. 807			
	Center range in	37. 4			
	Center height in	23. 23			
	Oil storage quantity U.S. gal	75			
	Lubricant	120#gear lubricant in winter			
	Big pulley diameter in	150#gear lubricant in summer 36			
	Pwuey groove type	5C			
	Weight of counterweight lbs	3527 × 4			
Balance	Weight of crank lbs	4190 × 2			
Assembly	Radius of crank in	41.9	34. 8	27. 8	
	Stroke length relevant to crank radius in	120	99	78	
	Туре	18 × 7 – 28 – 185 – I			
Wire Line	Length in	335			
Structure Unbalance lbs		1025			
Fixed Ty	Fixed Type of Main Base		Press bars		
Overall Di	mensions Length × Width × Height in	421 × 91 × 301 (Nature gas engine configured)		ured)	
Total Weight lbs		51260 (Nature gas engine configured and Ex. engine)			

Model		C456 - 305 - 144			
Road Rating lbs		30, 500			
Basic Parameter	Stroke length in	144/123/102			
	Max stroke frequency r/min	12			
	Rated torque in. lbs	456, 000			
	Balanced type	Crank balanced			
	Crank direction	Counterclockwise			
Gear Reducer	Rated torque in. lbs	456, 000			
	Model	The second secon	456D		
	Gear type	Divided - flow ty	ype, herringbone, invo	lute gear reducer	
	Gear ratio	28. 25			
	Center range in	39. 37			
	Center height in	25. 59			
	Oil storage quantity U.S. gal	110			
	Lubricant	120#gear lubricant in winter			
	Big pulley diameter in	150#gear lubricant in summer 50			
	Pwuey groove type	6C			
	Weight of counterweight lbs	3748 × 4			
Balance	Weight of crank lbs	4420 × 2			
Assembly	Radius of crank in	46. 46	39.96	33. 46	
	Stroke length relevant to crank radius in	144	123	102	
	Туре	6 × 19s – 32 – 180			
Wire Line	Length in	381			
Structure Unbalance lbs		617			
Fixed Ty	ype of Main Base		Press bars		
Overall D	imensions Length × Width × Height in	445 × 106 × 329 (Nature gas engine configured)		ured)	
Total Wei	ght lbs	58510 (Nature gas engine configured and Ex. en		d Ex. engine)	