



Specifications for 3D-10-23-18

Gear Reducer

Peak Torque Rating ----- 10,000 in. lbs.
 Nominal Horsepower Rating (at 20 SPM) ----- 2.0
 Reduction Ratio (Double Reduction) ----- 40:1
 Type of Bearings ----- Taperd Roller
 Sheave Pitch Dia, Number of Grooves, and Section ----- 18 inches, 1-AB
 Gear Design ----- Helical, Ductile Iron
 Pinion Design ----- Helical, Heat Treated Steel
 Oil Capacity ----- 2 Gallons

Structure

Structure Rating ----- 2,300 lbs.
 Stroke Length Selections ----- 14", 18"
 Well Working Center ----- 23 inches
 Walking Beam size, weight, and section ----- 6" x 12# WF
 Height of Saddle Bearing above top of foundation ----- 46 inches
 Overall Length of T-Base Frame ----- 75 inches
 Overall Length of Wide Base Frame ----- 96 inches
 Width of Base of Samson Post ----- 25 inches
 Main Base Members size, weight, and section ----- 4" x 5.4# C Channel
 Beam Counterweights ----- 70 lbs. each
 Approximate weight of the Pump Jack - T-Base Frame ----- 675 lbs.
 Approximate weight of the Pump Jack - Wide Base Frame ----- 798 lbs.
 Wrist Pins equipped with double row taper roller bearings.

Note: This model is not equipped with a brake. (Optional Brake is available.)

Stroke Length	Pump Diameter	Lbs Counterbalance Required Per 100' Depth Sucker Rod Diameter			10 S.P.M.				20 S.P.M.			
					Max Well Depth in Ft Sucker Rod Diameter			Bbls Per 24 Hours	Max Well Depth in Ft Sucker Rod Diameter			Bbls Per 24 Hours
		1/2	5/8	3/4	1/2	5/8	3/4		1/2	5/8	3/4	
14	1-1/16	45	68	92	1934	1276	942	15	1934	1276	941	30
	1-1/4	48	71	95	1787	1210	905	20	1787	1210	905	41
	1-1/2	54	77	101	1555	1118	853	29	1512	1118	852	59
	1-3/4	61	84	108	1310	1026	798	40	1279	1002	798	80
	1-25/32	62	85	109	1283	1015	791	41	1253	986	791	83
	2	69	92	116	1109	904	743	52	1087	880	734	104
	2-1/8	73	96	120	1022	846	716	59	1004	825	695	118
	2-1/4	78	101	125	944	792	677	66	928	773	658	132
	2-1/2	88	111	135	810	695	605	82	798	981	590	163
	2-3/4	99	122	146	700	612	542	99	691	601	529	198
18	1-1/16	45	68	92	1934	1276	1109	19	1934	1276	1051	40
	1-1/4	48	71	95	1786	1210	1036	26	1767	1210	985	52
	1-1/2	54	77	101	1548	1118	937	38	1498	1118	895	75
	1-3/4	61	84	108	1305	1026	842	51	1270	992	808	103
	1-25/32	62	85	109	1278	1011	831	53	1244	976	798	107
	2	69	92	116	1105	900	743	67	1080	872	727	134
	2-1/8	73	96	120	1019	842	713	76	997	818	688	151
	2-1/4	78	101	125	941	788	674	85	923	767	652	170
	2-1/2	88	111	135	808	692	603	105	794	676	585	210
	2-3/4	99	122	146	698	610	539	127	688	597	525	254

>>>Note: Well Production Based on Pump Efficiency of 80%

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