



# Specifications for 16DB-43-30

## Gear Reducer

Peak Torque Rating ----- 16,000 in. lbs.  
 Nominal Horsepower Rating (at 20 SPM) ----- 3.5  
 Reduction Ratio (Double Reduction) ----- 31.8:1  
 Type of Bearings ----- Tapered Roller  
 Sheave Pitch Dia, Number of Grooves, and Section ----- 18 inches, 3-AB  
 Gear Design ----- Helical, Ductile Iron  
 Pinion Design ----- Helical, Heat Treated Steel  
 Oil Capacity ----- 2.5 Gallons

## Structure

Structure Rating ----- 4,300 lbs.  
 Stroke Length Selections ----- 19" - 23" - 26" - 30"  
 Well Working Center ----- 336 inches  
 Walking Beam size, weight, and section ----- 8" x 18.4# I  
 Height of Saddle Bearing above top of foundation ----- 67 inches  
 Overall Length of T-Base Frame ----- 93 inches  
 Overall Length of Wide Base Frame ----- 121 inches  
 Width of Base of Samson Post ----- 30 inches  
 Main Base Members size, weight, and section ----- 6" x 8.2# C Channel  
 Beam Counterweights ----- 70 lbs. each  
 Approximate weight of the Pump Jack - T-Base Frame ----- 1,150 lbs.  
 Approximate weight of the Pump Jack - Wide Base Frame ----- 1,420 lbs.  
 Wrist Pins equipped with double row taper roller bearings.

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		Bbbs Per 24 Hours	Max Well Depth in Ft Sucker Rod Diameter		Bbbs Per 24 Hours
				5/8	3/4		5/8	3/4	
19	1-1/16	68	92	2724	2075	20	2573	1951	40
	1-1/4	71	95	2492	1937	28	2364	1829	55
	1-1/2	77	101	2194	1752	40	2095	1663	80
	1-3/4	84	108	1923	1575	54	1846	1503	109
	1-25/32	85	109	1891	1554	56	1817	1483	112
	2	92	116	1683	1410	71	1624	1352	142
	2-1/8	96	120	1575	1334	80	1523	1281	160
	2-1/4	101	125	1475	1261	90	1429	1214	179
	2-1/2	111	135	1295	1127	111	1183	1090	222
	2-3/4	122	146	1142	1009	134	993	963	268
23	1-1/16	68	92	2724	2075	24	2538	1922	49
	1-1/4	71	95	2491	1937	33	2335	1804	67
	1-1/2	77	101	2194	1757	48	2071	1643	96
	1-3/4	84	108	1923	1575	66	1724	1486	131
	1-25/32	85	109	1891	1554	68	1675	1467	136
	2	92	116	1683	1411	86	1381	1300	171
	2-1/8	96	120	1575	1334	97	1244	1179	194
	2-1/4	101	125	1469	1261	109	1126	1072	217
	2-1/2	111	135	1198	1127	134	934	896	268
	2-3/4	122	146	996	985	162	786	759	325
26	1-1/16	68	92	2705	2058	27	2503	1895	55
	1-1/4	71	95	2475	1923	38	2305	1779	76
	1-1/2	77	101	2181	1741	54	1834	1622	109
	1-3/4	84	108	1913	1556	74	1447	1334	149
	1-25/32	85	109	1882	1545	77	1406	1229	154
	2	92	116	1576	1403	97	1163	1089	194
	2-1/8	96	120	1406	1327	109	1050	989	219
	2-1/4	101	125	1261	1237	123	952	902	254
	2-1/2	111	135	1031	1015	152	791	756	303
	2-3/4	122	146	858	846	183	667	642	367
30	1-1/16	68	92	2705	2058	32	2348	1868	63
	1-1/4	71	95	2475	1923	44	1928	1680	87
	1-1/2	77	101	2181	1741	63	1503	1348	126
	1-3/4	84	108	1752	1566	86	1192	1092	171
	1-25/32	85	109	1696	1545	89	1159	1065	178
	2	92	116	1366	1333	112	962	896	224
	2-1/8	96	120	1218	1192	126	870	816	252
	2-1/4	101	125	1093	1072	142	790	745	283
	2-1/2	111	135	893	879	175	658	627	350
	2-3/4	122	146	743	734	212	556	533	423

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

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