



# Specifications for 57DB-109-54

## Gear Reducer

Peak Torque Rating ----- 57,000 in. lbs.  
 Nominal Horsepower Rating (at 20 SPM) ----- 15.0  
 Reduction Ratio (Double Reduction) ----- 32:1  
 Type of Bearings ----- Taperd Roller  
 Sheave Pitch Dia, Number of Grooves, and Section ----- 22.5 inches, 3-AB  
 Gear Design ----- Helical, Ductile Iron  
 Pinion Design ----- Helical, Heat Treated Steel  
 Oil Capacity ----- 7.0 Gallons

## Structure

Structure Rating ----- 10,900 lbs.  
 Stroke Length Selections ----- 38" - 43" - 54"  
 Well Working Center ----- 63 inches  
 Walking Beam size, weight, and section ----- 14" x 53# WF  
 Height of Saddle Bearing above top of foundation ----- 115 inches  
 Overall Length of T-Base Frame ----- 168 inches  
 Overall Length of Wide Base Frame ----- 195 inches  
 Width of Base of Samson Post ----- 46 inches  
 Main Base Members size, weight, and section ----- 8" x 24# WF  
 Beam Counterweights ----- 150 lbs. each  
 Approximate weight of the Pump Jack - T-Base Frame ----- 4,320 lbs.  
 Approximate weight of the Pump Jack - Wide Base Frame ----- 4,740 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		Bbls Per 24 Hours	Max Well Depth in Ft Sucker Rod Diameter		Bbls Per 24 Hours
				5/8	3/4		5/8	3/4	
38	1-1/16	68	92	5991	4421	43	5060	3861	85
	1-1/4	71	95	5681	4250	59	4620	3600	118
	1-1/2	77	101	5251	4004	85	3722	3250	169
	1-3/4	84	108	4596	3748	115	2985	2701	231
	1-25/32	85	109	4452	3716	120	2907	2637	239
	2	92	116	3609	3488	151	2430	2238	301
	2-1/8	96	120	3228	3131	170	2204	2046	340
	2-1/4	101	125	2902	2824	191	2007	1874	381
	2-1/2	111	135	2381	2328	235	1680	1586	471
	2-3/4	122	146	1987	1950	285	1424	1356	570
43	1-1/16	68	92	5991	4421	48	4473	3412	96
	1-1/4	71	95	5681	4250	67	3850	3182	133
	1-1/2	77	101	5251	4004	96	3069	2694	192
	1-3/4	84	108	4061	3748	130	2475	2226	261
	1-25/32	85	109	3935	3716	135	2412	2174	270
	2	92	116	3189	3082	171	2023	1853	341
	2-1/8	96	120	2852	2766	192	1839	1697	385
	2-1/4	101	125	2565	2495	216	1676	1558	431
	2-1/2	111	135	2104	2057	266	1407	1323	533
	2-3/4	122	146	1756	1723	322	1195	1133	645
54	1-1/16	68	92	5991	4421	61	3148	2576	121
	1-1/4	71	95	5265	4250	84	2672	2248	167
	1-1/2	77	101	3935	3672	120	2155	1871	241
	1-3/4	84	108	3029	2871	164	1754	1561	328
	1-25/32	85	109	2938	2789	170	1711	1527	340
	2	92	116	2394	2294	214	1444	1311	428
	2-1/8	96	120	2147	2066	241	1316	1204	483
	2-1/4	101	125	1934	1868	271	1203	1109	542
	2-1/2	111	135	1592	1548	335	1014	946	669
	2-3/4	122	146	1332	1301	405	864	814	810

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

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