

Pitch	Driver Diameter (IN)	Driver Diameter (FT)	Width	Length	Driver RPM	Driver Teeth	Driven RPM	Driven Teeth	HP	Driven Torque	Tension (lbs)
14	3.859820667	0.321651722	20	2520	3450	22	3300	23	98.8	157.241697	977.714
14	4.035267061	0.336272255	20	2520	3450	23	3450	23	104	158.3211594	941.625
14	9.649551668	0.804129306	20	2520	3450	55	3450	55	290.8	442.6903188	1101.04
14	3.859820667	0.321651722	20	2520	3450	22	3450	22	98.8	150.4051014	935.205 //This show
14	5.087945425	0.423995452	20		3450	29	3450				
14	6.491516577	0.540959715	20		3450	37	3450				
14	6.842409364	0.57020078	20		3450	39	3450				
14			20		3450		3450				

Max Load :

1000	0.58 RPM	Horsepower By Sprocket Teeth									
		FT/s	MPH	22	25	28	29	34	37 Teeth		
		0	0	0	0	0	0	0	0	0	
		500	15.27	10.412	15.31091595	17.3987681	19.4866203	20.18	23.66232465	25.7502	
		1000	30.54	20.825	30.6218319	34.7975362	38.9732406	40.37	47.3246493	51.5004	
		1500	45.81	31.237	45.93274785	52.1963044	58.4598609	60.55	70.98697395	77.2505	
		2000	61.09	41.65	61.2436638	69.5950725	77.9464812	80.73	94.64929859	103.001	
		2500	76.36	52.062	76.55457975	86.9938406	97.43310149	100.9	118.3116232	128.751	
		3000	91.63	62.475	91.86549569	104.392609	116.9197218	121.1	141.9739479	154.501	
		3500	106.9	72.887	107.1764116	121.791377	136.4063421	141.3	165.6362725	180.251	
		4000	122.2	83.3	122.4873276	139.190145	155.8929624	161.5	189.2985972	206.001	
		4500	137.4	93.712	137.7982435	156.588913	175.3795827	181.6	212.9609218	231.752	
		5000	152.7	104.12	153.1091595	173.987681	194.866203	201.8	236.6232465	257.502	
		5500	168	114.54	168.4200754	191.386449	214.3528233	222	260.2855711	283.252	
		6000	183.3	124.95	183.7309914	208.785217	233.8394436	242.2	283.9478958	309.002	
		6500	198.5	135.36	199.0419073	226.183986	253.3260639	262.4	307.6102204	334.752	
		7000	213.8	145.77	214.3528233	243.582754	272.8126842	282.6	331.2725451	360.502	
		7500	229.1	156.19	229.6637392	260.981522	292.2993045	302.7	354.9348697	386.253	
		8000	244.3	166.6	244.9746552	278.38029	311.7859248	322.9	378.5971944	412.003	
		8500	259.6	177.01	260.2855711	295.779058	331.2725451	343.1	402.259519	437.753	
		9000	274.9	187.42	275.5964871	313.177826	350.7591654	363.3	425.9218437	463.503	
		9500	290.2	197.84	290.907403	330.576594	370.2457857	383.5	449.5841683	489.253	
		10000	305.4	208.25	306.218319	347.975362	389.732406	403.7	473.246493	515.004	

ms that the maximum limits are at the smallest diameter with the horsepower, EG the limit is belt tension from driven torque

1000 LBF (FS=1.8)

//Choose 29 tooth sprocket

Torque Max (FT-Lbf)  
211.997726

520.8333 (Machine Key Torque Limit)  
Machine Key Horsepower Transmission

	Available Belts (GATES PolyChain GT)			
	Circumference	Pitch Dia	Center Distances (IN)	(FT)
0				
49.58429				
99.16857				
148.7529	15.98425	71	39.13386	11.57480315 0.964567
198.3371		80	44.09449	14.05511811 1.17126
247.9214	1190	85	46.85039	15.43307087 1.286089
297.5057	1260	90	49.6063	16.81102362 1.400919
347.09	1400	100	55.11811	19.56692913 1.630577
396.6743	1568	112	61.73228	22.87401575 1.906168
446.2586	1610	115	63.38583	23.7007874 1.975066
495.8429	1750	125	68.89764	26.45669291 2.204724
545.4271	1890	135	74.40945	29.21259843 2.434383
595.0114	1960	140	77.16535	30.59055118 2.549213
644.5957	2100	150	82.67717	33.34645669 2.778871
694.18	2240	160	88.18898	36.1023622 3.00853
743.7643	2310	165	90.94488	37.48031496 3.12336
793.3486	2380	170	93.70079	38.85826772 3.238189
842.9329	2450	175	96.45669	40.23622047 3.353018
892.5171	2520	180	99.2126	41.61417323 3.467848
942.1014	2590	185	101.9685	42.99212598 3.582677
991.6857		190	104.7244	44.37007874 3.697507
		200	110.2362	47.12598425 3.927165
		224	123.4646	53.74015748 4.478346
		236	130.0787	57.04724409 4.753937
		240	132.2835	58.1496063 4.845801
		250	137.7953	60.90551181 5.075459
		275	151.5748	67.79527559 5.649606
		280	154.3307	69.17322835 5.764436
		309	170.315	77.16535433 6.430446
		315	173.622	78.81889764 6.568241