

6 Spline

Quick Change Gears

P/N 4400, Series (1" Wide)

P/N 4500, Series (1 3/8" Wide)

SAE 8620 Steel, Crown Cut, 6 Spline Quick Change Gears. When ordering 1" Wide Gears add Prefix 44 To Set Number. When ordering 1 3/8" Wide Gears add Prefix 45 To Set Number. Example 4401 or 4501



1580 Trolley Road
York, PA 17408 USA

Ph.: 717.764.9844

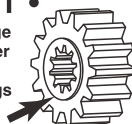
Fax: 717.764.0617

www.wintersperformance.com

Remember to refill gear cavity with good quality gear lube after quick change gear changes.

• **IMPORTANT** •

Install Quick Change Gears With Shoulder Facing Out Toward Gear Cover Bearings



3.78 R&P Ratio (9-34 Teeth)	4.11 R&P Ratio (9-37 Teeth)	4.33 R&P Ratio (9-39 Teeth)
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Gear Set #	Low Spur Ratio	High Spur Ratio	No. of Teeth	3.78 R&P Ratio (9-34 Teeth)		4.11 R&P Ratio (9-37 Teeth)		4.33 R&P Ratio (9-39 Teeth)	
				Low	High	Low	High	Low	High
1	1.000	1.000	24/24	3.78	3.78	4.11	4.11	4.33	4.33
2	0.958	1.043	23/24	3.62	3.94	3.94	4.29	4.15	4.52
3	0.920	1.087	23/25	3.48	4.11	3.78	4.47	3.98	4.71
3B	0.895	1.118	17/19	3.38	4.22	3.68	4.59	3.87	4.84
3A	0.880	1.136	22/25	3.33	4.30	3.62	4.67	3.81	4.92
4	0.846	1.182	22/26	3.20	4.47	3.48	4.86	3.66	5.12
5	0.808	1.238	21/26	3.05	4.68	3.32	5.09	3.50	5.36
5A	0.792	1.263	19/24	2.99	4.77	3.25	5.19	3.43	5.47
6	0.778	1.286	21/27	2.94	4.86	3.20	5.28	3.37	5.57
24	0.767	1.304	23/30	2.90	4.93	3.15	5.36	3.32	5.65
25	0.750	1.333	18/24	2.84	5.04	3.08	5.48	3.25	5.77
7	0.741	1.350	20/27	2.80	5.10	3.04	5.55	3.21	5.85
23	0.727	1.375	16/22	2.75	5.20	2.99	5.65	3.15	5.95
8	0.714	1.400	20/28	2.70	5.29	2.94	5.75	3.09	6.06
22	0.704	1.421	19/27	2.66	5.37	2.89	5.84	3.05	6.15
9	0.696	1.438	16/23	2.63	5.43	2.86	5.91	3.01	6.22
10	0.682	1.467	15/22	2.58	5.54	2.80	6.03	2.95	6.35
11	0.667	1.500	18/27	2.52	5.67	2.74	6.17	2.89	6.50
12	0.655	1.526	19/29	2.48	5.77	2.69	6.27	2.84	6.61
13	0.652	1.533	15/23	2.47	5.80	2.68	6.30	2.82	6.64
14	0.636	1.571	14/22	2.41	5.94	2.62	6.46	2.76	6.80
15	0.625	1.600	15/24	2.36	6.05	2.57	6.58	2.71	6.93
16	0.615	1.625	16/26	2.33	6.14	2.53	6.68	2.66	7.04
17	0.600	1.667	18/30	2.27	6.30	2.47	6.85	2.60	7.22
18	0.591	1.692	13/22	2.23	6.40	2.43	6.96	2.56	7.33
18A	0.571	1.750	16/28	2.16	6.62	2.35	7.19	2.47	7.58
19	0.560	1.786	14/25	2.12	6.75	2.30	7.34	2.42	7.73
20	0.556	1.800	15/27	2.10	6.80	2.28	7.40	2.41	7.79
27	0.542	1.846	13/24	2.05	6.98	2.23	7.59	2.35	7.99
21	0.531	1.882	17/32	2.01	7.12	2.18	7.74	2.30	8.15
28	0.528	1.895	19/36	2.00	7.16	2.17	7.79	2.29	8.20
29	0.522	1.917	12/23	1.97	7.25	2.14	7.88	2.26	8.30
26	0.517	1.933	15/29	1.96	7.31	2.13	7.95	2.24	8.37
30	0.500	2.000	20/40	1.89	7.56	2.06	8.22	2.17	8.66
31	0.488	2.050	20/41	1.84	7.75	2.00	8.43	2.11	8.88
32	0.475	2.105	19/40	1.80	7.95	1.95	8.65	2.06	9.12

(Numerical Ratio Listed)

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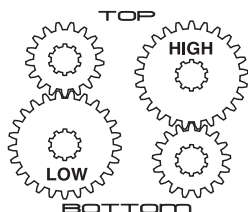
To Determine Gear RPM Change:

$$(RPM) \div (\text{Gear Ratio}) \times (\text{New Ratio}) = (\text{New RPM})$$

Example $8000 \div 6.58 \times 6.33 = 7696$

To Determine Final Drive:

$$(\# \text{ Teeth Top Gear}) \div (\# \text{ Teeth Bottom Gear}) \times \text{R\&P Ratio} = \text{Final Drive}$$



Gearing Formulas

$$\frac{\text{Ratio} \times \text{MPH}}{\text{Tire DIA}} \times 336 = \text{RPM}$$

or

$$\text{Ratio} = \frac{\text{RPM} \times \text{Tire DIA}}{\text{MPH} \times 336}$$



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4.88 R&P Ratio (8-39 Teeth)	5.13 R&P Ratio (8-41 Teeth)	5.38 R&P Ratio (8-43 Teeth)
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Gear Set #	Low Spur Ratio	High Spur Ratio	No. of Teeth	4.88 R&P Ratio		5.13 R&P Ratio		5.38 R&P Ratio	
				Low	High	Low	High	Low	High
1	1.000	1.000	24/24	4.88	4.88	5.13	5.13	5.38	5.38
2	0.958	1.043	23/24	4.68	5.09	4.92	5.35	5.16	5.61
3	0.920	1.087	23/25	4.49	5.30	4.72	5.58	4.95	5.85
3B	0.895	1.118	17/19	4.37	5.45	4.59	5.73	4.81	6.01
3A	0.880	1.136	22/25	4.29	5.55	4.51	5.83	4.73	6.11
4	0.846	1.182	22/26	4.13	5.77	4.34	6.06	4.55	6.36
5	0.808	1.238	21/26	3.94	6.04	4.14	6.35	4.35	6.66
5A	0.792	1.263	19/24	3.86	6.16	4.06	6.48	4.26	6.80
6	0.778	1.286	21/27	3.80	6.27	3.99	6.60	4.18	6.92
24	0.767	1.304	23/30	3.74	6.37	3.93	6.69	4.12	7.02
25	0.750	1.333	18/24	3.66	6.51	3.85	6.84	4.04	7.17
7	0.741	1.350	20/27	3.61	6.59	3.80	6.93	3.99	7.26
23	0.727	1.375	16/22	3.55	6.71	3.73	7.05	3.91	7.40
8	0.714	1.400	20/28	3.49	6.83	3.66	7.18	3.84	7.53
22	0.704	1.421	19/27	3.43	6.93	3.61	7.29	3.79	7.65
9	0.696	1.438	16/23	3.39	7.02	3.57	7.37	3.74	7.73
10	0.682	1.467	15/22	3.33	7.16	3.50	7.52	3.67	7.89
11	0.667	1.500	18/27	3.25	7.32	3.42	7.70	3.59	8.07
12	0.655	1.526	19/29	3.20	7.45	3.36	7.83	3.52	8.21
13	0.652	1.533	15/23	3.18	7.48	3.35	7.87	3.51	8.25
14	0.636	1.571	14/22	3.11	7.67	3.26	8.06	3.42	8.45
15	0.625	1.600	15/24	3.05	7.81	3.21	8.21	3.36	8.61
16	0.615	1.625	16/26	3.00	7.93	3.16	8.34	3.31	8.74
17	0.600	1.667	18/30	2.93	8.13	3.08	8.55	3.23	8.97
18	0.591	1.692	13/22	2.88	8.26	3.03	8.68	3.18	9.10
18A	0.571	1.750	16/28	2.79	8.54	2.93	8.98	3.07	9.42
19	0.560	1.786	14/25	2.73	8.71	2.87	9.16	3.01	9.61
20	0.556	1.800	15/27	2.71	8.78	2.85	9.23	2.99	9.68
27	0.542	1.846	13/24	2.64	9.01	2.78	9.47	2.91	9.93
21	0.531	1.882	17/32	2.59	9.19	2.73	9.66	2.86	10.13
28	0.528	1.895	19/36	2.58	9.25	2.71	9.72	2.84	10.19
29	0.522	1.917	12/23	2.55	9.35	2.68	9.83	2.81	10.31
26	0.517	1.933	15/29	2.52	9.43	2.65	9.92	2.78	10.40
30	0.500	2.000	20/40	2.44	9.76	2.57	10.26	2.69	10.76
31	0.488	2.050	20/41	2.38	10.00	2.50	10.52	2.62	11.03
32	0.475	2.105	19/40	2.32	10.27	2.44	10.80	2.56	11.33

(Numerical Ratio Listed)

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