

8V Stock Drive Selection



V-BELT DRIVES

Speed Ratio	Sheave Combination		DriveN Speeds and HP Per Belt								Nominal Center Distance And Arc-Length Correction Factors						
			1750 RPM DriveR		1160 RPM DriveR		870 RPM DriveR		690 RPM DriveR								
	DriveR O.D.	DriveN O.D.	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	8V Belt Length Designation						
											1000	1180	1320	1400	1600	1800	2000
1.00	12.50	12.50	1750	50.91	1160	42.57	870	35.00	690	29.32	30.4	39.4	46.4	50.4	60.4	70.4	80.4
1.00	13.20	13.20	1750	56.13	1160	47.26	870	38.87	690	32.56	29.3	38.3	45.3	49.3	59.3	69.3	79.3
1.00	14.00	14.00	1750	61.66	1160	52.48	870	43.24	690	36.21	28.0	37.0	44.0	48.0	58.0	68.0	78.0
1.00	15.00	15.00	+	+	1160	58.77	870	48.58	690	40.72	26.4	35.4	42.4	46.4	56.4	66.4	76.4
1.00	16.00	16.00	+	+	1160	64.81	870	53.81	690	45.16	24.9	33.9	40.9	44.9	54.9	64.9	74.9
ARC-LENGTH CORRECTION FACTOR											0.87	0.89	0.91	0.92	0.94	0.95	0.97
1.00	17.00	17.00	+	+	1160	70.58	870	58.90	690	49.53	23.3	32.3	39.3	43.3	53.3	63.3	73.3
1.00	18.00	18.00	+	+	1160	76.06	870	63.87	690	53.82	21.7	30.7	37.7	41.7	51.7	61.7	71.7
1.00	19.00	19.00	+	+	1160	81.25	870	68.70	690	58.04	—	29.2	36.2	40.2	50.2	60.2	70.2
1.00	20.00	20.00	+	+	1160	86.12	870	73.39	690	62.18	—	27.6	34.6	38.6	48.6	58.6	68.6
1.00	21.20	21.20	+	+	1160	91.55	870	78.82	690	67.05	—	25.7	32.7	36.7	46.7	56.7	66.7
ARC-LENGTH CORRECTION FACTOR											0.87	0.89	0.91	0.92	0.94	0.95	0.97
1.00	22.40	22.40	+	+	+	+	870	84.03	690	71.80	—	—	30.8	34.8	44.8	54.8	64.8
1.00	24.80	24.80	+	+	+	+	870	93.77	690	80.92	—	—	—	31.0	41.0	51.0	61.0
1.05	19.00	20.00	+	+	1101	82.51	826	69.65	655	58.80	—	28.4	35.4	39.4	49.4	59.4	69.4
1.06	12.50	13.20	1656	53.14	1098	44.06	823	36.11	653	30.21	29.8	38.8	45.8	49.8	59.8	69.8	79.8
1.06	13.20	14.00	1649	58.37	1093	48.75	820	39.99	650	33.44	28.6	37.6	44.6	48.6	58.6	68.6	78.6
ARC-LENGTH CORRECTION FACTOR											0.86	0.89	0.91	0.91	0.93	0.95	0.97
1.06	16.00	17.00	+	+	1091	66.29	818	54.92	649	46.04	24.1	33.1	40.1	44.1	54.1	64.1	74.1
1.06	17.00	18.00	+	+	1095	72.06	821	60.01	651	50.41	22.5	31.5	38.5	42.5	52.5	62.5	72.5
1.06	18.00	19.00	+	+	1098	77.54	824	64.98	653	54.71	—	29.9	36.9	40.9	50.9	60.9	70.9
1.06	20.00	21.20	+	+	1094	87.60	820	74.50	651	63.07	—	26.6	33.6	37.6	47.6	57.6	67.6
1.06	21.20	22.40	+	+	1097	93.03	823	79.93	653	67.93	—	—	31.8	35.8	45.8	55.8	65.8
ARC-LENGTH CORRECTION FACTOR											0.86	0.89	0.90	0.91	0.93	0.95	0.97
1.07	14.00	15.00	1632	64.21	1082	54.17	811	44.50	643	37.22	27.2	36.2	43.2	47.2	57.2	67.2	77.2
1.07	15.00	16.00	+	+	1087	60.46	815	49.85	646	41.73	25.6	34.6	41.6	45.6	55.6	65.6	75.6
1.11	18.00	20.00	+	+	1043	78.48	782	65.68	620	55.26	—	29.1	36.1	40.1	50.1	60.1	70.1
1.11	22.40	24.80	+	+	+	+	785	85.85	623	73.24	—	—	28.9	32.9	42.9	52.9	62.9
1.12	12.50	14.00	1560	54.80	1034	45.16	775	36.93	615	30.86	29.2	38.2	45.2	49.2	59.2	69.2	79.2
ARC-LENGTH CORRECTION FACTOR											0.86	0.89	0.90	0.91	0.93	0.95	0.97
1.12	17.00	19.00	+	+	1037	73.16	777	60.84	617	51.07	21.7	30.7	37.7	41.7	51.7	61.7	71.7
1.12	19.00	21.20	+	+	1038	83.83	779	70.63	618	59.58	—	27.4	34.4	38.4	48.4	58.4	68.4
1.12	20.00	22.40	+	+	1035	88.70	776	75.32	615	63.72	—	25.7	32.7	36.7	46.7	56.7	66.7
1.13	16.00	18.00	+	+	1030	67.55	772	55.86	612	46.79	23.3	32.3	39.3	43.3	53.3	63.3	73.3
1.14	13.20	15.00	1537	60.48	1019	50.15	764	41.04	606	34.27	27.8	36.8	43.8	47.8	57.8	67.8	77.8
ARC-LENGTH CORRECTION FACTOR											0.86	0.88	0.90	0.91	0.93	0.95	0.96
1.14	14.00	16.00	1528	66.01	1013	55.36	760	45.40	603	37.93	26.4	35.4	42.4	46.4	56.4	66.4	76.4
1.14	15.00	17.00	+	+	1022	61.66	766	50.74	608	42.44	24.8	33.9	40.9	44.9	54.9	64.9	74.9
1.17	21.20	24.80	+	+	990	94.83	743	81.28	589	69.00	—	—	29.8	33.8	43.8	53.8	63.8
1.18	17.00	20.00	+	+	984	73.98	738	61.45	585	51.55	—	29.9	36.9	40.9	50.9	60.9	70.9
1.18	18.00	21.20	+	+	983	79.46	737	66.42	585	55.85	—	28.2	35.2	39.2	49.2	59.2	69.2
ARC-LENGTH CORRECTION FACTOR											0.86	0.88	0.90	0.91	0.93	0.95	0.96
1.18	19.00	22.40	+	+	982	84.65	737	71.25	584	60.07	—	26.4	33.4	37.4	47.4	57.4	67.4
1.19	16.00	19.00	+	+	975	68.33	731	56.44	580	47.25	22.5	31.5	38.5	42.5	52.5	62.5	72.5
1.20	12.50	15.00	1454	56.38	964	46.20	723	37.72	573	31.48	28.4	37.4	44.4	48.4	58.4	68.4	78.4
1.20	15.00	18.00	+	+	964	62.40	723	51.30	574	42.88	24.0	33.0	40.1	44.1	54.1	64.1	74.1
1.21	24.80	30.00	+	+	+	+	718	96.57	570	83.14	—	—	—	—	36.9	46.9	56.9
ARC-LENGTH CORRECTION FACTOR											0.85	0.88	0.90	0.91	0.93	0.95	0.96
1.22	13.20	16.00	1440	61.91	954	51.09	716	41.75	568	34.84	27.0	36.0	43.0	47.0	57.0	67.1	77.1
1.22	14.00	17.00	1438	67.44	953	56.31	715	46.11	567	38.49	25.6	34.6	41.6	45.6	55.6	65.6	75.6
1.24	20.00	24.80	+	+	934	90.14	700	76.40	555	64.57	—	—	30.7	34.7	44.8	54.8	64.8
1.25	16.00	20.00	+	+	926	68.92	694	56.88	551	47.60	21.6	30.7	37.7	41.7	51.7	61.7	71.7
1.25	17.00	21.20	+	+	928	74.68	696	61.98	552	51.97	—	28.9	35.9	39.9	50.0	60.0	70.0
ARC-LENGTH CORRECTION FACTOR											0.85	0.88	0.90	0.91	0.93	0.95	0.96
1.25	18.00	22.40	+	+	930	80.16	698	66.95	553	56.26	—	27.2	34.2	38.2	48.2	58.2	68.2
1.27	15.00	19.00	+	+	913	63.04	685	51.78	543	43.26	23.2	32.2	39.2	43.2	53.2	63.2	73.2
1.28	12.50	16.00	1362	57.46	903	46.92	677	38.25	537	31.91	27.6	36.6	43.6	47.6	57.6	67.6	77.6
1.29	13.20	17.00	1354	62.79	898	51.68	673	42.19	534	35.18	26.2	35.2	42.2	46.2	56.2	66.2	76.2
1.29	14.00	18.00	1357	68.32	899	56.89	674	46.55	535	38.84	24.8	33.8	40.8	44.8	54.8	64.8	74.8
ARC-LENGTH CORRECTION FACTOR											0.85	0.88	0.89	0.90	0.93	0.94	0.96

8V = STANDARD V-BELT

+ IF RIM SPEED EXCEEDS 6500 FEET PER MINUTE, CONSULT *Martin*.



Stock Drive 8V Selection

V-BELT DRIVES

Nominal Center Distances And Arc-Length Correction Factor															Sheave Combination		Speed Ratio
8V Belt Length Designation															DriveR OD	DriveN OD	
2120	2240	2360	2500	2650	2800	3000	3150	3350	3550	3750	4000	4500	5000	5600			
86.4	92.4	98.4	105.4	112.9	120.4	130.4	137.9	147.9	157.9	167.9	180.4	205.4	230.4	260.4	12.50	12.50	1.00
85.3	91.3	97.3	104.3	111.8	119.3	129.3	136.8	146.8	156.8	166.8	179.3	204.3	229.3	259.3	13.20	13.20	1.00
84.0	90.0	96.0	103.0	110.5	118.0	128.0	135.5	145.5	155.5	165.5	178.0	203.0	228.0	258.0	14.00	14.00	1.00
82.4	88.4	94.4	101.4	108.9	116.4	126.4	133.9	143.9	153.9	163.9	176.4	201.4	226.4	256.4	15.00	15.00	1.00
80.9	86.9	92.9	99.9	107.4	114.9	124.9	132.4	142.4	152.4	162.4	174.9	199.9	224.9	254.9	16.00	16.00	1.00
0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12			
79.3	85.3	91.3	98.3	105.8	113.3	123.3	130.8	140.8	150.8	160.8	173.3	198.3	223.3	253.3	17.00	17.00	1.00
77.7	83.7	89.7	96.7	104.2	111.7	121.7	129.2	139.2	149.2	159.2	171.7	196.7	221.7	251.7	18.00	18.00	1.00
76.2	82.2	88.2	95.2	102.7	110.2	120.2	127.7	137.7	147.7	157.7	170.2	195.2	220.2	250.2	19.00	19.00	1.00
74.6	80.6	86.6	93.6	101.1	108.6	118.6	126.1	136.1	146.1	156.1	168.6	193.6	218.6	248.6	20.00	20.00	1.00
72.7	78.7	84.7	91.7	99.2	106.7	116.7	124.2	134.2	144.2	154.2	166.7	191.7	216.7	246.7	21.20	21.20	1.00
0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12			
70.8	76.8	82.8	89.8	97.3	104.8	114.8	122.3	132.3	142.3	152.3	164.8	189.8	214.8	244.8	22.40	22.40	1.00
67.0	73.0	79.0	86.0	93.5	101.0	111.0	118.5	128.5	138.5	148.5	161.0	186.0	211.0	241.0	24.80	24.80	1.00
75.4	81.4	87.4	94.4	101.9	109.4	119.4	126.9	136.9	146.9	156.9	169.4	194.4	219.4	249.4	19.00	20.00	1.05
85.8	91.8	97.8	104.8	112.3	119.8	129.8	137.3	147.3	157.3	167.3	179.8	204.8	229.8	259.8	12.50	13.20	1.06
84.6	90.6	96.6	103.6	111.1	118.6	128.6	136.1	146.1	156.1	166.1	178.6	203.6	228.6	258.6	13.20	14.00	1.06
0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12			
80.1	86.1	92.1	99.1	106.6	114.1	124.1	131.6	141.6	151.6	161.6	174.1	199.1	224.1	254.1	16.00	17.00	1.06
78.5	84.5	90.5	97.5	105.0	112.5	122.5	130.0	140.0	150.0	160.0	172.5	197.5	222.5	252.5	17.00	18.00	1.06
76.9	82.9	88.9	95.9	103.4	110.9	120.9	128.4	138.4	148.4	158.4	170.9	195.9	220.9	250.9	18.00	19.00	1.06
73.6	79.6	85.6	92.6	100.1	107.6	117.6	125.1	135.1	145.1	155.1	167.6	192.6	217.6	247.6	20.00	21.20	1.06
71.8	77.8	83.8	90.8	98.3	105.8	115.8	123.3	133.3	143.3	153.3	165.8	190.8	215.8	245.8	21.20	22.40	1.06
0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12			
83.2	89.2	95.2	102.2	109.7	117.2	127.2	134.7	144.7	154.7	164.7	177.2	202.2	227.2	257.2	14.00	15.00	1.07
81.7	87.7	93.7	100.7	108.2	115.7	125.7	133.2	143.2	153.2	163.2	175.7	200.7	225.7	255.7	15.00	16.00	1.07
76.1	82.1	88.1	95.1	102.6	110.1	120.1	127.6	137.6	147.6	157.6	170.1	195.1	220.1	250.1	18.00	20.00	1.11
68.9	74.9	80.9	87.9	95.4	102.9	112.9	120.4	130.4	140.4	150.4	162.9	187.9	212.9	242.9	22.40	24.80	1.11
85.2	91.2	97.2	104.2	111.7	119.2	129.2	136.7	146.7	156.7	166.7	179.2	204.2	229.2	259.2	12.50	14.00	1.12
0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.09	1.10	1.12			
77.7	83.7	89.7	96.7	104.2	111.7	121.7	129.2	139.2	149.2	159.2	171.7	196.7	221.7	251.7	17.00	19.00	1.12
74.4	80.4	86.4	93.4	100.9	108.4	118.4	125.9	135.9	145.9	155.9	168.4	193.4	218.4	248.4	19.00	21.20	1.12
72.7	78.7	84.7	91.7	99.2	106.7	116.7	124.2	134.2	144.2	154.2	166.7	191.7	216.7	246.7	20.00	22.40	1.12
79.3	85.3	91.3	98.3	105.8	113.3	123.3	130.8	140.8	150.8	160.8	173.3	198.3	223.3	253.3	16.00	18.00	1.13
83.8	89.8	95.8	102.8	110.3	117.8	127.8	135.3	145.3	155.3	165.3	177.8	202.8	227.8	257.8	13.20	15.00	1.14
0.97	0.98	0.99	1.00	1.01	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12			
82.4	88.4	94.4	101.4	108.9	116.4	126.4	133.9	143.9	153.9	163.9	176.4	201.4	226.4	256.4	14.00	16.00	1.14
80.9	86.9	92.9	99.9	107.4	114.9	124.9	132.4	142.4	152.4	162.4	174.9	199.9	224.9	254.9	15.00	17.00	1.14
69.8	75.8	81.8	88.8	96.3	103.8	113.8	121.3	131.3	141.3	151.3	163.8	188.8	213.8	243.8	21.20	24.80	1.17
76.9	82.9	88.9	95.9	103.4	110.9	120.9	128.4	138.4	148.4	158.4	170.9	195.9	220.9	250.9	17.00	20.00	1.18
75.2	81.2	87.2	94.2	101.7	109.2	119.2	126.7	136.7	146.7	156.7	169.2	194.2	219.2	249.2	18.00	21.20	1.18
0.97	0.98	0.99	1.00	1.01	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12			
73.5	79.5	85.5	92.5	100.0	107.5	117.5	125.0	135.0	145.0	155.0	167.5	192.5	217.5	247.5	19.00	22.40	1.18
78.5	84.5	90.5	97.5	105.0	112.5	122.5	130.0	140.0	150.0	160.0	172.5	197.5	222.5	252.5	16.00	19.00	1.19
84.4	90.4	96.4	103.4	110.9	118.4	128.4	135.9	145.9	155.9	165.9	178.4	203.4	228.4	258.4	12.50	15.00	1.20
80.1	86.1	92.1	99.1	106.6	114.1	124.1	131.6	141.6	151.6	161.6	174.1	199.1	224.1	254.1	15.00	18.00	1.20
62.9	68.9	74.9	81.9	89.4	96.9	106.9	114.4	124.4	134.4	144.4	156.9	181.9	206.9	236.9	24.80	30.00	1.21
0.97	0.98	0.99	1.00	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12			
83.1	89.1	95.1	102.1	109.6	117.1	127.1	134.6	144.6	154.6	164.6	177.1	202.1	227.1	257.1	13.20	16.00	1.22
81.6	87.6	93.6	100.6	108.1	115.6	125.6	133.1	143.1	153.1	163.1	175.6	200.6	225.6	255.6	14.00	17.00	1.22
70.8	76.8	82.8	89.8	97.3	104.8	114.8	122.3	132.3	142.3	152.3	164.8	189.8	214.8	244.8	20.00	24.80	1.24
77.7	83.7	89.7	96.7	104.2	111.7	121.7	129.2	139.2	149.2	159.2	171.7	196.7	221.7	251.7	16.00	20.00	1.25
76.0	82.0	88.0	95.0	102.5	110.0	120.0	127.5	137.5	147.5	157.5	170.0	195.0	220.0	250.0	17.00	21.20	1.25
0.97	0.98	0.99	1.00	1.01	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12			
74.2	80.2	86.2	93.2	100.7	108.2	118.2	125.7	135.7	145.7	155.7	168.2	193.2	218.2	248.2	18.00	22.40	1.25
79.3	85.3	91.3	98.3	105.8	113.3	123.3	130.8	140.8	150.8	160.8	173.3	198.3	223.3	253.3	15.00	19.00	1.27
83.6	89.6	95.6	102.6	110.1	117.6	127.6	135.1	145.1	155.1	165.1	177.6	202.6	227.6	257.6	12.50	16.00	1.28
82.3	88.3	94.3	101.3	108.8	116.3	126.3	133.8	143.8	153.8	163.8	176.3	201.3	226.3	256.3	13.20	17.00	1.29
80.8	86.8	92.8	99.8	107.3	114.8	124.8	132.3	142.3	152.3	162.3	174.8	199.8	224.8	254.8	14.00	18.00	1.29
0.97	0.98	0.99	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.12			

FOR BELT SIZES NOT SHOWN, INTERPOLATE FOR ADDITIONAL CENTER DISTANCE.

8V Stock Drive Selection



V-BELT DRIVES

Speed Ratio	Sheave Combination		DriveN Speeds and HP Per Belt								Nominal Center Distance And Arc-Length Correction Factors						
			1750 RPM DriveR		1160 RPM DriveR		870 RPM DriveR		690 RPM DriveR								
	DriveR O.D.	DriveN O.D.	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	8V Belt Length Designation						
											1000	1180	1320	1400	1600	1800	2000
1.31	19.00	24.80	+	+	887	85.80	665	72.11	527	60.75	—	—	31.5	35.5	45.5	55.5	65.5
1.32	17.00	22.40	+	+	878	75.19	658	62.36	522	52.27	—	27.9	35.0	39.0	49.0	59.0	69.0
1.33	16.00	21.20	+	+	873	69.49	655	57.31	519	47.94	—	29.7	36.7	40.7	50.7	60.7	70.7
1.34	15.00	20.00	+	+	867	63.51	650	52.13	516	43.54	22.4	31.4	38.4	42.4	52.5	62.5	72.5
1.34	22.40	30.00	+	+	+	+	648	87.58	514	74.61	—	—	—	—	38.7	48.7	58.7
ARC-LENGTH CORRECTION FACTOR											0.84	0.87	0.89	0.90	0.92	0.94	0.96
1.36	14.00	19.00	1285	68.97	851	57.32	639	46.87	506	39.10	24.0	33.0	40.0	44.0	54.0	64.0	74.0
1.37	12.50	17.00	1281	58.29	849	47.47	637	38.67	505	32.24	26.7	35.8	42.8	46.8	56.8	66.8	76.8
1.37	13.20	18.00	1278	63.51	847	52.16	635	42.55	504	35.47	25.4	34.4	41.4	45.4	55.4	65.5	75.5
1.38	18.00	24.80	+	+	839	81.01	630	67.58	499	56.77	—	25.2	32.2	36.2	46.3	56.3	66.3
1.41	16.00	22.40	+	+	826	69.89	619	57.62	491	48.19	—	28.7	35.7	39.7	49.7	59.8	69.8
ARC-LENGTH CORRECTION FACTOR											0.84	0.87	0.89	0.90	0.92	0.94	0.96
1.42	15.00	21.20	+	+	818	63.90	613	52.43	486	43.77	—	30.4	37.4	41.5	51.5	61.5	71.5
1.42	21.20	30.00	+	+	817	96.67	613	82.66	486	70.10	—	—	—	29.5	39.5	49.6	59.6
1.43	14.00	20.00	1220	69.45	808	57.64	606	47.11	481	39.29	23.1	32.2	39.2	43.2	53.2	63.2	73.2
1.43	24.80	35.50	+	+	+	+	606	97.64	481	83.99	—	—	—	—	—	42.3	52.4
1.45	12.50	18.00	1209	58.82	802	47.82	601	38.93	477	32.44	25.9	34.9	42.0	46.0	56.0	66.0	76.0
ARC-LENGTH CORRECTION FACTOR											0.84	0.87	0.89	0.90	0.92	0.94	0.96
1.45	13.20	19.00	1210	64.04	802	52.50	602	42.81	477	35.68	24.5	33.6	40.6	44.6	54.6	64.6	74.7
1.46	17.00	24.80	+	+	792	75.86	594	62.86	471	52.67	—	25.9	32.9	37.0	47.0	57.0	67.1
1.50	15.00	22.40	+	+	773	64.18	580	52.64	460	43.94	—	29.4	36.4	40.5	50.5	60.5	70.5
1.51	20.00	30.00	+	+	771	91.56	578	77.47	458	65.42	—	—	—	30.3	40.4	50.5	60.5
1.52	13.20	20.00	1149	64.38	762	52.73	571	42.98	453	35.81	23.7	32.7	39.8	43.8	53.8	63.8	73.8
ARC-LENGTH CORRECTION FACTOR											0.84	0.87	0.89	0.90	0.92	0.94	0.96
1.52	14.00	21.20	1150	69.91	762	57.95	572	47.34	453	39.47	22.1	31.1	38.2	42.2	52.2	62.3	72.3
1.53	12.50	19.00	1145	59.20	759	48.07	569	39.12	451	32.59	25.0	34.1	41.1	45.1	55.2	65.2	75.2
1.56	16.00	24.80	+	+	745	70.39	559	57.99	443	43.48	—	26.6	33.7	37.7	47.8	57.8	67.8
1.59	19.00	30.00	+	+	732	86.89	549	72.93	435	61.40	—	—	—	31.0	41.1	51.2	61.3
1.59	22.40	35.50	+	+	+	+	547	88.27	434	75.15	—	—	—	—	33.9	44.0	54.1
ARC-LENGTH CORRECTION FACTOR											0.83	0.86	0.88	0.89	0.92	0.94	0.95
1.61	12.50	20.00	1087	59.49	721	48.26	540	39.26	429	32.71	24.2	33.3	40.3	44.3	54.3	64.4	74.4
1.61	14.00	22.40	1088	70.24	721	58.17	541	47.50	429	39.60	—	30.1	37.2	41.2	51.2	61.3	71.3
1.62	13.20	21.20	1083	64.74	718	52.97	539	43.16	427	35.95	22.6	31.7	38.8	42.8	52.8	62.9	72.9
1.62	24.80	40.00	+	+	+	+	538	98.05	426	84.32	—	—	—	—	—	38.4	48.5
1.66	15.00	24.80	+	+	698	64.56	523	52.92	415	44.16	—	27.3	34.4	38.4	48.5	58.5	68.6
ARC-LENGTH CORRECTION FACTOR											0.83	0.86	0.88	0.89	0.92	0.94	0.95
1.67	18.00	30.00	+	+	693	81.86	520	68.22	412	57.27	—	—	27.7	31.7	41.9	52.0	62.0
1.68	21.20	35.50	+	+	690	97.36	518	83.18	410	70.51	—	—	—	—	34.7	44.9	55.0
1.71	12.50	21.20	1025	59.75	679	48.44	510	39.40	404	32.81	23.1	32.2	39.3	43.3	53.4	63.4	73.4
1.71	13.20	22.40	1025	64.98	679	53.13	509	43.27	404	36.05	21.5	30.7	37.8	41.8	51.8	61.9	71.9
1.77	17.00	30.00	+	+	654	76.52	490	63.36	389	53.07	—	—	28.3	32.4	42.6	52.7	62.7
ARC-LENGTH CORRECTION FACTOR											0.82	0.86	0.88	0.89	0.91	0.93	0.95
1.78	14.00	24.80	982	70.65	651	58.44	488	47.71	387	39.76	—	28.0	35.1	39.2	49.2	59.3	69.3
1.78	20.00	35.50	+	+	651	92.08	488	77.86	387	65.73	—	—	—	—	35.6	45.8	55.9
1.79	22.40	40.00	+	+	+	+	485	88.51	385	75.35	—	—	—	—	—	40.0	50.2
1.80	12.50	22.40	970	59.93	643	48.56	482	39.48	382	32.88	22.0	31.2	38.3	42.3	52.4	62.4	72.4
1.80	24.80	44.50	+	+	+	+	483	98.26	383	84.48	—	—	—	—	—	—	44.5
ARC-LENGTH CORRECTION FACTOR											0.81	0.85	0.87	0.89	0.91	0.93	0.95
1.88	19.00	35.50	+	+	618	87.31	463	73.25	367	61.65	—	—	—	—	36.3	46.5	56.6
1.89	13.20	24.80	925	65.29	613	53.34	460	43.43	365	36.17	—	28.6	35.7	39.7	49.8	59.9	69.9
1.89	16.00	30.00	+	+	615	70.89	461	58.36	366	48.78	—	—	29.0	33.1	43.3	53.4	63.5
1.90	21.20	40.00	+	+	612	97.63	459	83.38	364	70.67	—	—	—	—	—	40.9	51.1
1.98	18.00	35.50	+	+	585	82.21	439	68.48	348	57.48	—	—	—	—	36.9	47.2	57.3
ARC-LENGTH CORRECTION FACTOR											0.0	0.84	0.87	0.88	0.91	0.93	0.95
2.00	12.50	24.80	875	60.20	580	48.74	435	39.62	345	32.99	—	29.1	36.2	40.2	50.3	60.4	70.4
2.00	22.40	44.50	+	+	+	+	436	88.66	346	75.46	—	—	—	—	—	—	46.1
2.01	15.00	30.00	+	+	576	64.94	432	53.21	343	44.39	—	—	29.7	33.8	44.0	54.1	64.2
2.01	20.00	40.00	+	+	577	92.29	433	78.01	343	65.85	—	—	—	—	—	41.7	51.9
2.10	17.00	35.50	+	+	552	76.80	414	63.57	328	53.23	—	—	—	—	37.6	47.9	58.0
ARC-LENGTH CORRECTION FACTOR											0.0	0.84	0.86	0.88	0.90	0.93	0.94

8V = STANDARD V-BELT

+ IF RIM SPEED EXCEEDS 6500 FEET PER MINUTE, CONSULT *Martin*.



Stock Drive 8V Selection

Nominal Center Distances And Arc-Length Correction Factor															Sheave Combination		Speed Ratio
8V Belt Length Designation															DriveR OD	DriveN OD	
2120	2240	2360	2500	2650	2800	3000	3150	3350	3550	3750	4000	4500	5000	5600			
71.5	77.5	83.5	90.6	98.1	105.6	115.6	123.1	133.1	143.1	153.1	165.6	190.6	215.6	245.6	19.00	24.80	1.31
75.0	81.0	87.0	94.0	101.5	109.0	119.0	126.5	136.5	146.5	156.5	169.0	194.0	219.0	249.0	17.00	22.40	1.32
76.7	82.7	88.7	95.7	103.3	110.8	120.8	128.3	138.3	148.3	158.3	170.8	195.8	220.8	250.8	16.00	21.20	1.33
78.5	84.5	90.5	97.5	105.0	112.5	122.5	130.0	140.0	150.0	160.0	172.5	197.5	222.5	252.5	15.00	20.00	1.34
64.7	70.7	76.8	83.8	91.3	98.8	108.8	116.3	126.3	136.3	146.3	158.8	183.8	208.8	238.8	22.40	30.00	1.34
0.97	0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.08	1.10	1.11			
80.0	86.0	92.0	99.1	106.6	114.1	124.1	131.6	141.6	151.6	161.6	174.1	199.1	224.1	254.1	14.00	19.00	1.36
82.8	88.8	94.8	101.8	109.3	116.8	126.8	134.3	144.3	154.3	164.3	176.8	201.8	226.8	256.8	12.50	17.00	1.37
81.5	87.5	93.5	100.5	108.0	115.5	125.5	133.0	143.0	153.0	163.0	175.5	200.5	225.5	255.5	13.20	18.00	1.37
72.3	78.3	84.3	91.3	98.8	106.3	116.3	123.8	133.8	143.8	153.8	166.4	191.4	216.4	246.4	18.00	24.80	1.38
75.8	81.8	87.8	94.8	102.3	109.8	119.8	127.3	137.3	147.3	157.3	169.8	194.8	219.8	249.8	16.00	22.40	1.41
0.97	0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.08	1.10	1.11			
77.5	83.5	89.5	96.5	104.0	111.5	121.5	129.0	139.0	149.0	159.0	171.5	196.5	221.5	251.5	15.00	21.20	1.42
65.6	71.7	77.7	84.7	92.2	99.7	109.7	117.2	127.2	137.2	147.2	159.7	184.7	209.7	239.7	21.20	30.00	1.42
79.2	85.2	91.2	98.3	105.8	113.3	123.3	130.8	140.8	150.8	160.8	173.3	198.3	223.3	253.3	14.00	20.00	1.43
58.4	64.4	70.4	77.5	85.0	92.5	102.5	110.0	120.0	130.0	140.0	152.5	177.6	202.6	232.6	24.80	35.50	1.43
82.0	88.0	94.0	101.0	108.5	116.0	126.0	133.5	143.5	153.5	163.5	176.0	201.0	226.0	256.0	12.50	18.00	1.45
0.97	0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.05	1.06	1.08	1.10	1.11			
80.7	86.7	92.7	99.7	107.2	114.7	124.7	132.2	142.2	152.2	162.2	174.7	199.7	224.7	254.7	13.20	19.00	1.45
73.1	79.1	85.1	92.1	99.6	107.1	117.1	124.6	134.6	144.6	154.6	167.1	192.1	217.1	247.1	17.00	24.80	1.46
76.5	82.5	88.5	95.6	103.1	110.6	120.6	128.1	138.1	148.1	158.1	170.6	195.6	220.6	250.6	15.00	22.40	1.50
66.5	72.6	78.6	85.6	93.1	100.6	110.6	118.1	128.1	138.1	148.1	160.7	185.7	210.7	240.7	20.00	30.00	1.51
79.9	85.9	91.9	98.9	106.4	113.9	123.9	131.4	141.4	151.4	161.4	173.9	198.9	223.9	253.9	13.20	20.00	1.52
0.97	0.98	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.05	1.06	1.08	1.10	1.11			
78.3	84.3	90.3	97.3	104.8	112.3	122.3	129.8	139.8	149.8	159.8	172.3	197.3	222.3	252.3	14.00	21.20	1.52
81.2	87.2	93.2	100.2	107.7	115.2	125.2	132.7	142.7	152.7	162.7	175.2	200.2	225.2	255.2	12.50	19.00	1.53
73.8	79.8	85.8	92.9	100.4	107.9	117.9	125.4	135.4	145.4	155.4	167.9	192.9	217.9	247.9	16.00	24.80	1.56
67.3	73.3	79.3	86.3	93.9	101.4	111.4	118.9	128.9	138.9	148.9	161.4	186.4	211.4	241.5	19.00	30.00	1.59
60.2	66.2	72.2	79.3	86.8	94.3	104.3	111.8	121.8	131.9	141.9	154.4	179.4	204.4	234.4	22.40	35.50	1.59
0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.08	1.10	1.11			
80.4	86.4	92.4	99.4	106.9	114.4	124.4	131.9	141.9	151.9	161.9	174.4	199.4	224.4	254.4	12.50	20.00	1.61
77.3	83.3	89.3	96.3	103.8	111.3	121.3	128.8	138.8	148.8	158.8	171.4	196.4	221.4	251.4	14.00	22.40	1.61
78.9	84.9	90.9	97.9	105.4	112.9	122.9	130.4	140.4	150.4	160.4	172.9	197.9	222.9	253.0	13.20	21.20	1.62
54.6	60.6	66.7	73.7	81.3	88.8	98.8	106.3	116.4	126.4	136.4	148.9	173.9	199.0	229.0	24.80	40.00	1.62
74.6	80.6	86.6	93.6	101.1	108.6	118.6	126.1	136.2	146.2	156.2	168.7	193.7	218.7	248.7	15.00	24.80	1.66
0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.08	1.10	1.11			
68.0	74.1	80.1	87.1	94.6	102.1	112.1	119.7	129.7	139.7	149.7	162.2	187.2	212.2	242.2	18.00	30.00	1.67
61.0	67.1	73.1	80.1	87.7	95.2	105.2	112.7	122.8	132.8	142.8	155.3	180.3	205.3	235.4	21.20	35.50	1.68
79.4	85.4	91.4	98.4	105.9	113.4	123.5	131.0	141.0	151.0	161.0	173.5	198.5	223.5	253.5	12.50	21.20	1.71
77.9	83.9	89.9	96.9	104.4	111.9	122.0	129.5	139.5	149.5	159.5	172.0	197.0	222.0	252.0	13.20	22.40	1.71
68.8	74.8	80.8	87.8	95.4	102.9	112.9	120.4	130.4	140.4	150.4	163.0	188.0	213.0	243.0	17.00	30.00	1.77
0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.02	1.03	1.04	1.05	1.06	1.08	1.10	1.11			
75.3	81.3	87.4	94.4	101.9	109.4	119.4	126.9	136.9	146.9	156.9	169.4	194.4	219.4	249.5	14.00	24.80	1.78
61.9	68.0	74.0	81.0	88.6	96.1	106.1	113.6	123.7	133.7	143.7	156.2	181.2	206.3	236.3	20.00	35.50	1.78
56.3	62.4	68.4	75.5	83.0	90.6	100.6	108.1	118.2	128.2	138.2	150.7	175.8	200.8	230.8	22.40	40.00	1.79
78.4	84.4	90.5	97.5	105.0	112.5	122.5	130.0	140.0	150.0	160.0	172.5	197.5	222.5	252.5	12.50	22.40	1.80
50.6	56.7	62.8	69.9	77.4	85.0	95.1	102.6	112.6	122.7	132.7	145.2	170.3	195.3	225.4	24.80	44.50	1.80
0.96	0.97	0.98	0.99	1.00	1.00	1.02	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.11			
62.7	68.7	74.7	81.8	89.3	96.8	106.9	114.4	124.4	134.4	144.5	157.0	182.0	207.0	237.1	19.00	35.50	1.88
75.9	81.9	88.0	95.0	102.5	110.0	120.0	127.5	137.5	147.5	157.5	170.1	195.1	220.1	250.1	13.20	24.80	1.89
69.5	75.5	81.6	88.6	96.1	103.6	113.7	121.2	131.2	141.2	151.2	163.7	188.7	213.8	243.8	16.00	30.00	1.89
57.2	63.2	69.3	76.4	83.9	91.5	101.5	109.0	119.1	129.1	139.1	151.6	176.7	201.7	231.7	21.20	40.00	1.90
63.4	69.4	75.5	82.5	90.1	97.6	107.6	115.1	125.2	135.2	145.2	157.7	182.8	207.8	237.8	18.00	35.50	1.98
0.96	0.97	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.11			
76.5	82.5	88.5	95.5	103.0	110.5	120.5	128.1	138.1	148.1	158.1	170.6	195.6	220.6	250.6	12.50	24.80	2.00
52.3	58.4	64.5	71.6	79.2	86.8	96.8	104.4	114.4	124.5	134.5	147.0	172.1	197.1	227.2	22.40	44.50	2.00
70.3	76.3	82.3	89.3	96.9	104.4	114.4	121.9	131.9	142.0	152.0	164.5	189.5	214.5	244.5	15.00	30.00	2.01
58.0	64.1	70.2	77.2	84.8	92.3	102.4	109.9	120.0	130.0	140.0	152.5	177.6	202.6	232.7	20.00	40.00	2.01
64.1	70.2	76.2	83.3	90.8	98.3	108.4	115.9	125.9	136.0	146.0	158.5	183.5	208.6	238.6	17.00	35.50	2.10
0.96	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.11			

FOR BELT SIZES NOT SHOWN, INTERPOLATE FOR ADDITIONAL CENTER DISTANCE.

V-BELT DRIVES

8V Stock Drive Selection



V-BELT DRIVES

Speed Ratio	Sheave Combination		DriveN Speeds and HP Per Belt								Nominal Center Distance And Arc-Length Correction Factors						
			1750 RPM DriveR		1160 RPM DriveR		870 RPM DriveR		690 RPM DriveR		8V Belt Length Designation						
	DriveR O.D.	DriveN O.D.	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	1000	1180	1320	1400	1600	1800	2000
2.11	21.20	44.50	+	+	550	97.77	412	83.49	327	70.75	-	-	-	-	-	36.5	47.0
2.12	19.00	40.00	+	+	548	87.48	411	73.37	326	61.75	-	-	-	-	-	42.4	52.6
2.15	24.80	53.00	+	+	+	+	405	98.46	321	84.64	-	-	-	-	-	-	-
2.16	14.00	30.00	810	71.09	537	58.73	403	47.93	320	39.93	-	-	30.4	34.5	44.7	54.9	64.9
2.23	16.00	35.50	+	+	519	71.10	389	58.52	309	48.90	-	-	-	-	38.3	48.6	58.7
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.84	0.85	0.89	0.91	0.93
2.24	18.00	40.00	+	+	519	82.35	389	68.58	309	57.56	-	-	-	-	-	43.0	53.3
2.24	20.00	44.50	+	+	518	92.41	389	78.10	308	65.93	-	-	-	-	-	37.3	47.8
2.29	13.20	30.00	763	65.64	506	53.57	380	43.61	301	36.31	-	-	30.9	35.1	45.3	55.4	65.5
2.36	19.00	44.50	+	+	492	87.58	369	73.45	293	61.81	-	-	-	-	-	38.0	48.4
2.37	17.00	40.00	+	+	490	76.91	367	63.65	291	53.30	-	-	-	-	33.2	43.7	54.0
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.83	0.85	0.89	0.91	0.93
2.38	22.40	53.00	+	+	+	+	365	88.79	290	75.57	-	-	-	-	-	-	-
2.39	15.00	35.50	+	+	486	65.11	365	53.34	289	44.49	-	-	-	-	39.0	49.3	59.5
2.42	12.50	30.00	722	60.49	479	48.92	359	39.76	285	33.10	-	-	31.4	35.5	45.8	55.9	66.0
2.49	18.00	44.50	+	+	466	82.43	350	68.64	277	57.61	-	-	-	-	-	38.6	49.1
2.51	21.20	53.00	+	+	461	97.92	346	83.60	274	70.84	-	-	-	-	-	-	-
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.83	0.85	0.88	0.91	0.93
2.52	16.00	40.00	+	+	461	71.19	345	58.59	274	48.95	-	-	-	-	33.9	44.4	54.7
2.55	24.80	63.00	+	+	+	+	341	98.56	270	84.72	-	-	-	-	-	-	-
2.56	14.00	35.50	684	71.29	453	58.86	340	48.02	270	40.01	-	-	29.1	39.7	50.0	60.2	-
2.64	17.00	44.50	+	+	440	76.98	330	63.70	262	53.34	-	-	-	-	-	39.3	49.8
2.67	20.00	53.00	+	+	435	92.53	326	78.19	259	66.00	-	-	-	-	-	-	-
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.81	0.86	0.89	0.92
2.69	15.00	40.00	+	+	431	65.18	324	53.39	257	44.54	-	-	-	-	34.5	45.1	55.4
2.72	13.20	35.50	644	65.81	427	53.68	320	43.69	254	36.37	-	-	29.7	40.2	50.5	60.7	-
2.80	16.00	44.50	+	+	414	71.24	310	58.63	246	48.99	-	-	-	-	-	39.9	50.5
2.81	19.00	53.00	+	+	413	87.68	310	73.52	246	61.87	-	-	-	-	-	-	39.8
2.83	22.40	63.00	+	+	+	+	308	88.86	244	75.62	-	-	-	-	-	-	-
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.80	0.86	0.89	0.92
2.87	12.50	35.50	610	60.62	404	49.01	303	39.83	240	33.15	-	-	-	30.1	40.7	51.0	61.2
2.88	14.00	40.00	607	71.37	402	58.92	302	48.07	239	40.05	-	-	-	-	35.2	45.7	56.1
2.88	24.80	71.00	+	+	+	+	302	98.60	240	84.75	-	-	-	-	-	-	-
2.97	18.00	53.00	+	+	391	82.51	293	68.71	233	57.66	-	-	-	-	-	-	40.5
2.99	15.00	44.50	+	+	388	65.23	291	53.42	231	44.56	-	-	-	-	-	40.6	51.1
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.80	0.86	0.89	0.92
2.99	21.20	63.00	+	+	388	98.00	291	83.66	231	70.89	-	-	-	-	-	-	-
3.06	13.20	40.00	572	65.88	379	53.72	284	43.72	225	36.40	-	-	-	-	35.7	46.3	56.6
3.14	17.00	53.00	+	+	369	77.05	277	63.75	220	53.38	-	-	-	-	-	-	41.1
3.17	20.00	63.00	+	+	366	92.59	274	78.24	218	66.03	-	-	-	-	-	-	-
3.19	22.40	71.00	+	+	+	+	273	88.89	216	75.65	-	-	-	-	-	-	-
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.82	0.87	0.90
3.21	14.00	44.50	545	71.43	361	58.95	271	48.09	215	40.07	-	-	-	-	-	41.2	51.8
3.24	12.50	40.00	541	60.68	358	49.05	269	39.86	213	33.18	-	-	-	-	36.2	46.7	57.1
3.34	16.00	53.00	+	+	347	71.30	260	58.67	206	49.02	-	-	-	-	-	-	41.7
3.34	19.00	63.00	+	+	347	87.73	260	73.56	207	61.90	-	-	-	-	-	-	-
3.37	21.20	71.00	+	+	344	98.04	258	83.69	205	70.91	-	-	-	-	-	-	-
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.82	0.87	0.90
3.41	13.20	44.50	514	65.92	340	53.76	255	43.74	202	36.42	-	-	-	-	-	41.7	52.3
3.53	18.00	63.00	+	+	329	82.56	247	68.74	196	57.69	-	-	-	-	-	-	-
3.57	15.00	53.00	+	+	325	65.28	244	53.46	193	44.59	-	-	-	-	-	-	42.3
3.58	20.00	71.00	+	+	324	92.63	243	78.26	193	66.05	-	-	-	-	-	-	-
3.60	12.50	44.50	486	60.72	322	49.08	242	39.88	192	33.19	-	-	-	-	-	42.2	52.8
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.84	0.88

8V = STANDARD V-BELT

+ IF RIM SPEED EXCEEDS 6500 FEET PER MINUTE, CONSULT *Martin*.



Stock Drive 8V Selection

V-BELT DRIVES

Nominal Center Distances And Arc-Length Correction Factor															Sheave Combination		Speed Ratio
8V Belt Length Designation															DriveR OD	DriveN OD	
2120	2240	2360	2500	2650	2800	3000	3150	3350	3550	3750	4000	4500	5000	5600			
53.1	59.3	65.4	72.5	80.1	87.6	97.7	105.3	115.3	125.4	135.4	147.9	173.0	198.1	228.1	21.20	44.50	2.11
58.7	64.8	70.9	78.0	85.5	93.1	103.1	110.7	120.7	130.7	140.8	153.3	178.4	203.4	233.4	19.00	40.00	2.12
42.6	48.9	55.1	62.3	70.0	77.6	87.8	95.4	105.5	115.5	125.6	138.2	163.3	188.4	218.4	24.80	53.00	2.15
71.0	77.0	83.1	90.1	97.6	105.1	115.2	122.7	132.7	142.7	152.7	165.2	190.3	215.3	245.3	14.00	30.00	2.16
64.8	70.9	76.9	84.0	91.5	99.1	109.1	116.6	126.7	136.7	146.7	159.3	184.3	209.3	239.4	16.00	35.50	2.23
0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.06	1.07	1.09	1.11			
59.4	65.5	71.6	78.7	86.2	93.8	103.9	111.4	121.4	131.5	141.5	154.1	179.1	204.2	234.2	18.00	40.00	2.24
54.0	60.1	66.2	73.3	80.9	88.5	98.6	106.1	116.2	126.2	136.3	148.8	173.9	199.0	229.0	20.00	44.50	2.24
71.6	77.6	83.6	90.7	98.2	105.7	115.8	123.3	133.3	143.3	153.3	165.9	190.9	215.9	245.9	13.20	30.00	2.29
54.6	60.8	66.9	74.0	81.6	89.2	99.3	106.9	116.9	127.0	137.0	149.6	174.7	199.7	229.8	19.00	44.50	2.36
60.1	66.2	72.3	79.4	87.0	94.5	104.6	112.1	122.2	132.2	142.3	154.8	179.9	204.9	235.0	17.00	40.00	2.37
0.94	0.96	0.96	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.04	1.06	1.07	1.09	1.11			
44.1	50.5	56.7	64.0	71.6	79.3	89.5	97.1	107.2	117.3	127.4	139.9	165.1	190.2	220.2	22.40	53.00	2.38
65.5	71.6	77.7	84.7	92.3	99.8	109.9	117.4	127.4	137.5	147.5	160.0	185.1	210.1	240.1	15.00	35.50	2.39
72.1	78.1	84.2	91.2	98.7	106.3	116.3	123.8	133.8	143.9	153.9	166.4	191.4	216.4	246.4	12.50	30.00	2.42
55.3	61.5	67.6	74.7	82.3	89.9	100.0	107.6	117.7	127.7	137.8	150.3	175.4	200.5	230.5	18.00	44.50	2.49
44.9	51.3	57.5	64.8	72.5	80.1	90.3	97.9	108.1	118.2	128.2	140.8	166.0	191.1	221.2	21.20	53.00	2.51
0.94	0.95	0.96	0.97	0.98	0.99	1.01	1.01	1.02	1.03	1.04	1.05	1.07	1.09	1.11			
60.8	66.9	73.0	80.1	87.7	95.3	105.3	112.9	122.9	133.0	143.0	155.6	180.6	205.7	235.7	16.00	40.00	2.52
—	—	—	52.6	60.5	68.4	78.7	86.4	96.7	106.8	117.0	129.6	154.9	180.0	210.2	24.80	63.00	2.55
66.3	72.3	78.4	85.4	93.0	100.5	110.6	118.1	128.2	138.2	148.2	160.8	185.8	210.8	240.9	14.00	35.50	2.56
56.0	62.2	68.3	75.4	83.1	90.7	100.8	108.3	118.4	128.5	138.5	151.1	176.2	201.2	231.3	17.00	44.50	2.64
45.7	52.1	58.3	65.6	73.3	81.0	91.2	98.8	108.9	119.0	129.1	141.7	166.9	192.0	222.1	20.00	53.00	2.67
0.93	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.07	1.09	1.10			
61.5	67.6	73.7	80.8	88.4	96.0	106.1	113.6	123.7	133.7	143.8	156.3	181.4	206.4	236.5	15.00	40.00	2.69
66.8	72.9	79.0	86.0	93.6	101.1	111.2	118.7	128.8	138.8	148.8	161.4	186.4	211.5	241.5	13.20	35.50	2.72
56.7	62.9	69.0	76.2	83.8	91.4	101.5	109.1	119.1	129.2	139.3	151.8	176.9	202.0	232.0	16.00	44.50	2.80
46.3	52.7	59.0	66.3	74.0	81.7	91.9	99.5	109.6	119.7	129.8	142.4	167.6	192.7	222.8	19.00	53.00	2.81
—	—	46.5	54.1	62.1	70.0	80.4	88.1	98.3	108.5	118.7	131.4	156.6	181.8	212.0	22.40	63.00	2.83
0.93	0.94	0.95	0.96	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.07	1.09	1.10			
67.3	73.4	79.5	86.5	94.1	101.7	111.7	119.2	129.3	139.3	149.4	161.9	186.9	212.0	242.0	12.50	35.50	2.87
62.2	68.4	74.5	81.6	89.1	96.7	106.8	114.3	124.4	134.5	144.5	157.1	182.1	207.2	237.2	14.00	40.00	2.88
—	—	—	—	52.1	60.3	71.0	78.9	89.3	99.6	109.8	122.6	148.0	173.2	203.4	24.80	71.00	2.88
47.0	53.4	59.7	66.9	74.7	82.4	92.6	100.2	110.3	120.5	130.6	143.2	168.3	193.4	223.6	18.00	53.00	2.97
57.4	63.6	69.7	76.9	84.5	92.1	102.2	109.8	119.9	129.9	140.0	152.6	177.7	202.7	232.8	15.00	44.50	2.99
0.93	0.94	0.95	0.96	0.97	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.07	1.09	1.10			
—	—	47.2	54.9	62.9	70.8	81.2	88.9	99.2	109.4	119.5	132.2	157.5	182.7	212.8	21.20	63.00	2.99
62.8	68.9	75.0	82.1	89.7	97.3	107.4	114.9	125.0	135.1	145.1	157.6	182.7	207.8	237.8	13.20	40.00	3.06
47.6	54.0	60.3	67.6	75.4	83.1	93.3	100.9	111.1	121.2	131.3	143.9	169.1	194.2	224.3	17.00	53.00	3.14
—	—	48.0	55.7	63.7	71.6	82.0	89.7	100.0	110.2	120.4	133.1	158.4	183.6	213.7	20.00	63.00	3.17
—	—	—	—	53.6	61.9	72.6	80.5	90.9	101.2	111.5	124.3	149.7	175.0	205.2	22.40	71.00	3.19
0.92	0.93	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.06	1.08	1.10			
58.1	64.2	70.4	77.6	85.2	92.8	102.9	110.5	120.6	130.7	140.7	153.3	178.4	203.5	233.6	14.00	44.50	3.21
63.3	69.4	75.5	82.6	90.2	97.8	107.9	115.4	125.5	135.6	145.6	158.2	183.3	208.3	238.4	12.50	40.00	3.24
48.3	54.7	61.0	68.3	76.1	83.8	94.0	101.6	111.8	121.9	132.0	144.6	169.8	194.9	225.0	16.00	53.00	3.34
—	—	48.6	56.3	64.3	72.2	82.7	90.4	100.7	110.9	121.1	133.8	159.1	184.3	214.5	19.00	63.00	3.34
—	—	—	—	54.4	62.6	73.4	81.3	91.7	102.0	112.3	125.1	150.5	175.8	206.1	21.20	71.00	3.37
0.91	0.93	0.94	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.06	1.08	1.10			
58.6	64.8	71.0	78.1	85.8	93.4	103.5	111.1	121.2	131.2	141.3	153.9	179.0	204.1	234.2	13.20	44.50	3.41
—	—	49.2	56.9	65.0	72.9	83.3	91.1	101.4	111.6	121.8	134.5	159.8	185.0	215.2	18.00	63.00	3.53
48.9	55.3	61.7	69.0	76.7	84.5	94.7	102.3	112.5	122.6	132.7	145.4	170.5	195.7	225.8	15.00	53.00	3.57
—	—	—	—	55.1	63.4	74.1	82.1	92.5	102.9	113.2	125.9	151.4	176.7	207.0	20.00	71.00	3.58
59.1	65.3	71.4	78.6	86.2	93.9	104.0	111.6	121.7	131.8	141.8	154.4	179.5	204.6	234.7	12.50	44.50	3.60
0.90	0.91	0.93	0.94	0.96	0.97	0.98	0.99	1.01	1.02	1.03	1.04	1.06	1.08	1.10			

FOR BELT SIZES NOT SHOWN, INTERPOLATE FOR ADDITIONAL CENTER DISTANCE.

8V Stock Drive Selection



V-BELT DRIVES

Speed Ratio	Sheave Combination		DriveN Speeds and HP Per Belt								Nominal Center Distance And Arc-Length Correction Factors							
			1750 RPM DriveR		1160 RPM DriveR		870 RPM DriveR		690 RPM DriveR		8V Belt Length Designation							
	DriveR O.D.	DriveN O.D.	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	DriveN RPM	HP Per Belt 8V	1000	1180	1320	1400	1600	1800	2000	
3.74	17.00	63.00	—	—	310	77.09	233	63.79	185	53.40	—	—	—	—	—	—	—	
3.77	19.00	71.00	—	—	308	87.76	231	73.58	183	61.92	—	—	—	—	—	—	—	
3.83	14.00	53.00	457	71.49	303	58.99	227	48.12	180	40.09	—	—	—	—	—	—	43.0	
3.85	24.80	95.00	—	—	—	—	226	98.66	179	84.80	—	—	—	—	—	—	—	
3.97	16.00	63.00	—	—	292	71.33	219	58.70	174	49.04	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82
3.98	18.00	71.00	—	—	292	82.58	219	68.76	173	57.70	—	—	—	—	—	—	—	
4.06	13.20	53.00	431	65.97	286	53.79	214	43.77	170	36.44	—	—	—	—	—	—	43.4	
4.21	17.00	71.00	—	—	275	77.11	206	63.80	164	53.41	—	—	—	—	—	—	—	
4.24	15.00	63.00	—	—	273	65.31	205	53.48	163	44.61	—	—	—	—	—	—	—	
4.27	22.40	95.00	—	—	—	—	204	88.93	162	75.68	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82
4.29	12.50	53.00	408	60.76	270	49.11	203	39.90	161	33.21	—	—	—	—	—	—	43.9	
4.48	16.00	71.00	—	—	259	71.35	194	58.71	154	49.05	—	—	—	—	—	—	—	
4.51	21.20	95.00	—	—	257	98.09	193	83.72	153	70.94	—	—	—	—	—	—	—	
4.55	14.00	63.00	385	71.53	255	59.02	191	48.14	152	40.11	—	—	—	—	—	—	—	
4.78	15.00	71.00	—	—	242	65.32	182	53.49	144	44.62	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.81
4.79	20.00	95.00	+	+	242	92.67	182	78.30	144	66.08	—	—	—	—	—	—	—	
4.83	13.20	63.00	362	66.01	240	53.81	180	43.79	143	36.45	—	—	—	—	—	—	—	
5.04	19.00	95.00	+	+	230	87.80	173	73.61	137	61.94	—	—	—	—	—	—	—	
5.11	12.50	63.00	343	60.79	227	49.13	170	39.91	135	33.22	—	—	—	—	—	—	—	
5.13	14.00	71.00	341	71.54	226	59.03	170	48.15	134	40.11	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.33	18.00	95.00	+	+	218	82.62	163	68.79	130	57.72	—	—	—	—	—	—	—	
5.45	13.20	71.00	321	66.02	213	53.82	160	43.79	127	36.46	—	—	—	—	—	—	—	
5.64	17.00	95.00	+	+	206	77.14	154	63.82	122	53.43	—	—	—	—	—	—	—	
5.76	12.50	71.00	304	60.81	202	49.14	151	39.92	120	33.23	—	—	—	—	—	—	—	
6.00	16.00	95.00	+	+	193	71.38	145	58.73	115	49.07	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.41	15.00	95.00	+	+	181	65.34	136	53.51	108	44.63	—	—	—	—	—	—	—	
6.87	14.00	95.00	255	71.57	169	59.05	127	48.17	100	40.12	—	—	—	—	—	—	—	
7.29	13.20	95.00	240	66.05	159	53.84	119	43.81	95	36.47	—	—	—	—	—	—	—	
7.71	12.50	95.00	227	60.83	151	49.15	113	39.93	90	33.24	—	—	—	—	—	—	—	
ARC-LENGTH CORRECTION FACTOR											0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

8V = STANDARD V-BELT

+ IF RIM SPEED EXCEEDS 6500 FEET PER MINUTE, CONSULT *Martin*.



Stock Drive 8V Selection

Nominal Center Distances And Arc-Length Correction Factor															Sheave Combination		Speed Ratio
8V Belt Length Designation															DriveR OD	DriveN OD	
2120	2240	2360	2500	2650	2800	3000	3150	3350	3550	3750	4000	4500	5000	5600			
—	—	49.9	57.6	65.6	73.6	84.0	91.8	102.1	112.3	122.5	135.2	160.5	185.7	215.9	17.00	63.00	3.74
—	—	—	—	55.8	64.0	74.8	82.7	93.2	103.6	113.8	126.6	152.1	177.4	207.7	19.00	71.00	3.77
49.5	56.0	62.3	69.6	77.4	85.1	95.4	103.0	113.2	123.3	133.5	146.1	171.3	196.4	226.5	14.00	53.00	3.83
—	—	—	—	—	—	—	—	—	75.2	86.3	99.7	126.0	151.9	182.5	24.80	95.00	3.85
—	43.6	50.5	58.2	66.3	74.2	84.7	92.5	102.8	113.0	123.2	135.9	161.2	186.5	216.7	16.00	63.00	3.97
0.85	0.88	0.90	0.92	0.93	0.95	0.97	0.98	0.99	1.00	1.02	1.03	1.05	1.07	1.09			
—	—	—	—	56.4	64.7	75.4	83.4	93.9	104.2	114.5	127.3	152.8	178.1	208.4	18.00	71.00	3.98
50.1	56.5	62.9	70.2	78.0	85.7	95.9	103.6	113.8	123.9	134.0	146.7	171.9	197.0	227.1	13.20	53.00	4.06
—	—	—	48.3	57.0	65.3	76.1	84.0	94.5	104.9	115.2	128.0	153.5	178.8	209.1	17.00	71.00	4.21
—	44.2	51.1	58.8	66.9	74.9	85.4	93.1	103.5	113.7	123.9	136.6	162.0	187.2	217.4	15.00	63.00	4.24
—	—	—	—	—	—	—	—	65.2	76.7	87.8	101.3	127.6	153.5	184.2	22.40	95.00	4.27
0.85	0.87	0.89	0.91	0.93	0.95	0.97	0.98	0.99	1.00	1.02	1.03	1.05	1.07	1.09			
50.5	57.0	63.3	70.7	78.4	86.2	96.4	104.1	114.3	124.4	134.5	147.2	172.4	197.5	227.7	12.50	53.00	4.29
—	—	—	48.9	57.6	65.9	76.7	84.7	95.2	105.6	115.9	128.7	154.2	179.6	209.9	16.00	71.00	4.48
—	—	—	—	—	—	—	—	65.9	77.4	88.5	102.1	128.4	154.3	185.1	21.20	95.00	4.51
—	44.8	51.7	59.5	67.6	75.6	86.0	93.8	104.1	114.4	124.6	137.3	162.7	187.9	218.1	14.00	63.00	4.55
—	—	—	49.5	58.2	66.6	77.4	85.4	95.9	106.3	116.6	129.4	154.9	180.3	210.6	15.00	71.00	4.78
0.85	0.87	0.89	0.91	0.93	0.95	0.96	0.98	0.99	1.00	1.01	1.03	1.05	1.07	1.09			
—	—	—	—	—	—	—	—	66.6	78.2	89.3	102.8	129.2	155.1	185.9	20.00	95.00	4.79
—	45.3	52.2	60.0	68.1	76.1	86.6	94.4	104.7	115.0	125.2	137.9	163.3	188.5	218.7	13.20	63.00	4.83
—	—	—	—	—	—	—	—	67.2	78.8	89.9	103.5	129.9	155.8	186.6	19.00	95.00	5.04
—	45.7	52.6	60.4	68.6	76.5	87.0	94.8	105.2	115.4	125.7	138.4	163.8	189.0	219.2	12.50	63.00	5.11
—	—	—	50.1	58.8	67.2	78.0	86.0	96.5	106.9	117.3	130.1	155.6	181.0	211.3	14.00	71.00	5.13
0.0	0.78	0.83	0.86	0.89	0.91	0.94	0.95	0.97	0.99	1.00	1.01	1.04	1.06	1.08			
—	—	—	—	—	—	—	—	67.8	79.4	90.6	104.1	130.6	156.5	187.3	18.00	95.00	5.33
—	—	—	50.6	59.3	67.7	78.6	86.5	97.1	107.5	117.8	130.7	156.2	181.6	211.9	13.20	71.00	5.45
—	—	—	—	—	—	—	—	68.4	80.0	91.2	104.8	131.2	157.2	188.0	17.00	95.00	5.64
—	—	—	51.0	59.8	68.1	79.0	87.0	97.5	108.0	118.3	131.2	156.7	182.1	212.4	12.50	71.00	5.76
—	—	—	—	—	—	—	—	69.0	80.6	91.8	105.4	131.9	157.9	188.7	16.00	95.00	6.00
0.0	0.0	0.0	0.78	0.84	0.87	0.91	0.93	0.95	0.97	0.98	1.00	1.03	1.05	1.08			
—	—	—	—	—	—	—	—	69.6	81.3	92.5	106.1	132.6	158.6	189.4	15.00	95.00	6.41
—	—	—	—	—	—	—	—	70.2	81.9	93.1	106.7	133.2	159.2	190.1	14.00	95.00	6.87
—	—	—	—	—	—	—	—	70.7	82.4	93.6	107.2	133.8	159.8	190.6	13.20	95.00	7.29
—	—	—	—	—	—	—	58.5	71.1	82.8	94.0	107.7	134.2	160.3	191.1	12.50	95.00	7.71
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72	0.81	0.87	0.90	0.94	0.98	1.02	1.05			

FOR BELT SIZES NOT SHOWN, INTERPOLATE FOR ADDITIONAL CENTER DISTANCE.

V-BELT DRIVES