Variable And Wide Range Adjustable Drives

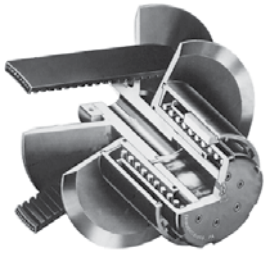
D1



TWO FLANGE MOVEABLE VARIABLE - TWO SPRING

ALL-PRO 1 - 30 HP @ 1750 RPM - Dry (no) Lubrication.....D1–2 thru D1–7

MCS 15 - 125 HP @ 1750 RPM - Oil Lubricated.....D1–8 thru D1–13



ONE FLANGE MOVEABLE VARIABLE

MS 1/2 - 25 HP @ 1750 rpm - Oil Lubricated.....D1–14 thru D1–22

VAR-A-CONE 1/3 - 1-1/2 HP @ 1750 RPM - Dry (no) Lubrication.....D1–32 thru D1–39



TWO FLANGE MOVEABLE

ROTO-CONE 1/2 - 30 HP @ 1750 rpm - Grease Lubrication.....D1–24 thru D1–31



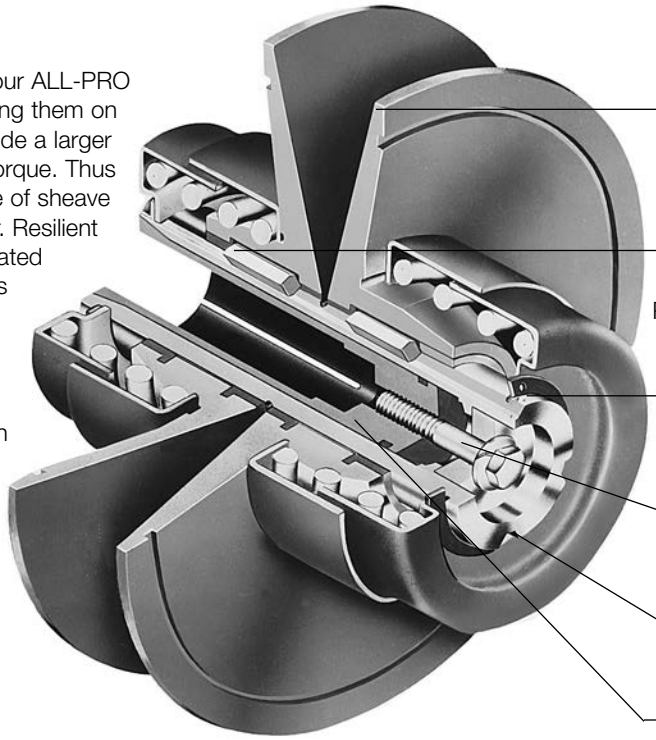
WIDE RANGE ADJUSTABLE DRIVES

VPS 7-1/2 - 40 HP @ 1750 RPM - No Lubrication.....D1–44 thru D1–48

All-Pro Sheave

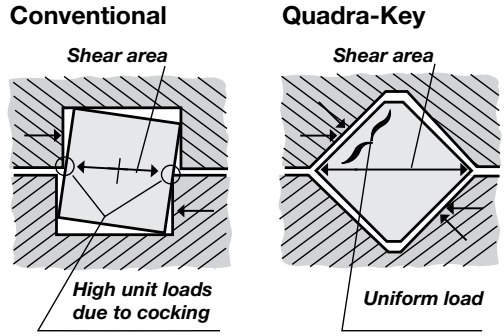
Features*

We rotated the keys 45° in our ALL-PRO variable speed sheave, placing them on edge rather than flat to provide a larger shear area for transmitting torque. Thus we eliminated another cause of sheave failure. Then we went further. Resilient keys and permanently lubricated precision machined bushings eliminate fretting corrosion that leads to seizing. Dynamically-balanced, hard-coated aluminum discs reduce inertia, vibration and wear. A keyless collet provides full 360° gripping action and simplifies installation and removal. The ALL-PRO variable speed sheave is designed to operate in the toughest motion-control application.



See the difference . . .

The unique ALL-PRO design provides larger shear area for transmitting torque and dramatically reduces sheave failure.

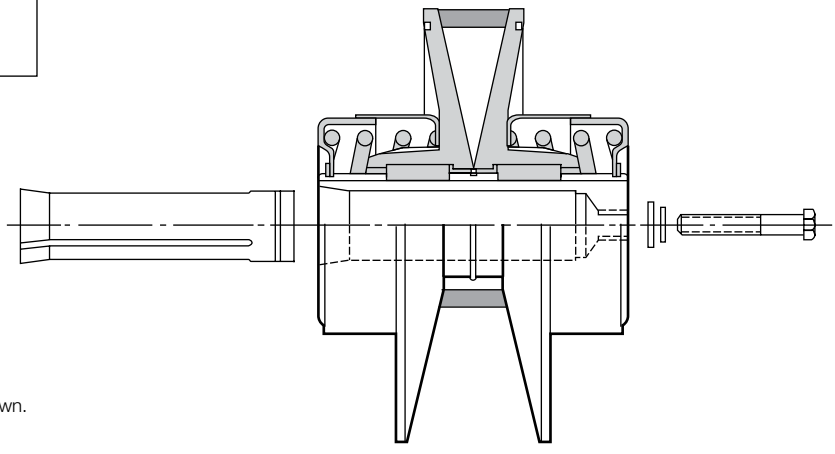


Features

- **Maintenance Free Design**
  Resilient keys eliminate need for periodic lubrication and cycling thru speed range.
- **Lightweight Aluminum Construction**
  Discs are of aluminum, hard coat anodized to prevent wear. Lightweight construction reduces inertia. Dynamic balancing assures smooth operation.
- **Collet Mounting (excludes AP160M & AP200N)**
  Interchangeable collets provide positive, vibration-free sheave to shaft fit and simplify installation and removal.
- **1 thru 30 Horsepower**

Easy on—Easy off

ALL-PRO's easy-on/easy-off collet mounting with 360° gripping action prevents vibration that leads to shaft fretting and burring.



* Note: AP160M & AP200N ALL-PRO sheaves differ from design shown.

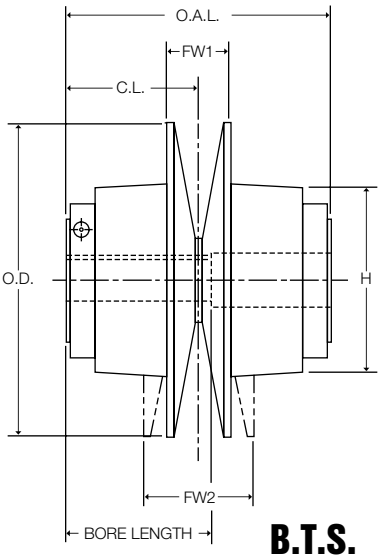
Selection

MODEL	HP RATING @			BELT	PITCH DIA.		DRIVE CHART PAGE NO.
	3600	1750	1160		MIN.	MAX.	
AP160M	1-1/2 - 3	1 - 1-1/2	3/4 - 1	1422V	2.05	6.25	D1—4
AP160M	1-1/2 - 3	1 - 1-1/2	3/4 - 1	1922V	2.10	6.30	D1—4
AP200N	-	2 - 5	1 - 3	1922V	2.62	7.87	D1—5
AP225P	-	2 - 5	1 - 3	2322V	2.93	8.80	D1—5
AP260T	-	5 - 10	3 - 7-1/2	2926V	3.42	10.20	D1—6
AP260U	-	5 - 10	3 - 7-1/2	3226V	4.23	10.20	-
AP255W	-	7-1/2 - 15	5 - 10	4430V	4.00	10.00	D1—6
AP255S	-	10 - 20	5 - 10	3230HV	4.00	10.00	D1—7
AP321W	-	7-1/2 - 10	5	4430V	4.25	12.75	D1—7
AP322W	-	10 - 20	5 - 10	4430V	4.25	12.75	D1—7
AP323W	-	15 - 30	10 - 20	4430V	4.25	12.75	D1—7

Horsepower ratings are based on constant torque and are shown for maximum pitch diameters.
Horsepower ratings at other pitch diameters reduce in proportion to the driven speed.

STOCK BORES SIZES

MODEL	COLLET NUMBER	BORE LENGTH	STOCK BORES					MAX. BORE
			7/8	1-1/8	1-3/8	1-5/8	1-7/8	
AP160M*	**B.T.S.**	2-7/8	X					7/8
AP200N*	**B.T.S.**	3-1/4	X	X				1-1/8
AP225P	**AP1C**	3-5/16	X	X				1-3/16
AP260T	**AP2C**	3-1/2	X	X	X			1-1/2
AP260U	**AP2C**	3-1/2	X	X	X			1-1/2
AP255W	**AP3C**	4-3/4			X	X	X	1-15/16
AP255S	**AP3C**	4-3/4			X	X	X	1-15/16
AP321W	**AP3C**	4-3/4			X	X	X	1-15/16
AP322W	**AP3C**	4-3/4			X	X	X	1-15/16
AP323W	**AP3C**	4-3/4			X	X	X	1-15/16



B.T.S.

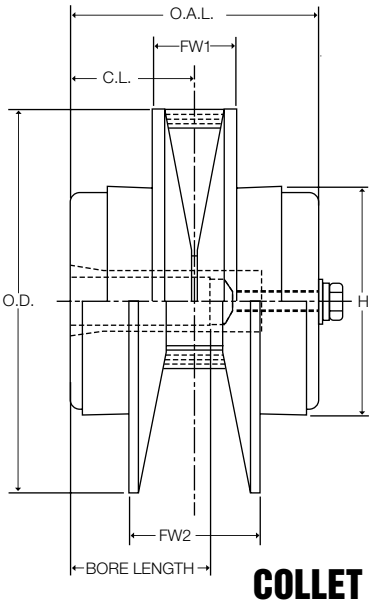
*Can be used in thru bore applications.

ORDERING EXAMPLE: **AP200N x 1-1/8**
AP225P & AP1C x 1-1/8

ALL-PRO SHEAVE DIMENSIONS

MODEL	O.D.	H	O.A.L.	C.L.	F.W. 1	F.W. 2	WT. LBS.
AP160M	6.50	4.00	5.50	2.75	1.46	2.26	7
AP200N	8.10	5.20	6.13	3.07	1.46	2.47	8.5
AP225P	9.05	5.40	5.75	2.88	1.94	3.00	15.5
AP260T	10.50	5.40	7.48	3.74	2.31	3.81	22.8
AP260U	10.50	5.40	7.48	3.74	2.31	3.81	22.8
AP255W	10.40	6.67	9.60	4.80	3.38	5.00	35.8
AP255S	10.40	6.67	9.60	4.80	2.62	4.25	35.8
AP321W	13.00	6.67	9.60	4.80	3.31	5.56	38.8
AP322W	13.00	6.67	9.60	4.80	3.31	5.56	38.8
AP323W	13.00	6.67	9.60	4.80	3.31	5.56	38.8

Weight includes collet where used.



COLLET

Selection Charts

AP160M (1422V BELT)

DRIVEN SPEEDS			PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
					VARIABLE SPEED V-BELT PART NUMBER							
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1422V 360	1422V 420	1422V 480	1422V 540	1422V 600	1422V 660	1422V 720	1422V 780
4167	2083	1381	**531M**	5.3 x 1M-SH	8.95	11.96	14.96	17.96	20.96	23.96	26.96	29.96
1367	683	453			12.15	15.17	18.19	21.20	24.21	27.21	30.22	33.22
3804	1902	1261	**581M**	5.8 x 1M-SH	8.57	11.57	14.56	17.57	20.57	23.57	26.57	29.57
1248	624	414			11.72	14.75	17.77	20.78	23.79	26.80	29.81	32.82
3241	1620	1074	**681M**	6.8 x 1M-SH	7.78	10.79	13.79	16.79	19.79	22.79	25.79	28.79
1063	531	352			10.82	13.87	16.91	19.94	22.96	25.97	28.98	31.99
2833	1411	935	**781M**	7.8 x 1M-SH	-	9.97	12.98	15.98	18.99	21.99	24.99	27.99
926	463	307			-	12.97	16.03	19.07	22.10	25.13	28.15	31.16
2500	1250	829	**881M**	8.8 x 1M-SH	-	9.13	12.15	15.16	18.17	21.18	24.18	27.19
820	410	272			-	12.03	15.12	18.19	21.23	24.27	27.29	30.32
2244	1122	744	**981M**	†9.8 x 1M-SH	-	-	11.29	14.32	17.34	20.35	23.36	26.37
736	368	244			-	-	14.18	17.28	20.34	23.39	26.43	29.46
2035	1017	674	**1081M**	†10.8 x 1M-SH	-	-	10.39	13.44	16.48	19.51	22.52	25.54
667	334	221			-	-	13.21	16.34	19.43	22.50	25.55	28.59
1862	931	617	**1181M**	†11.8 x 1M-SH	-	-	-	12.54	15.60	18.64	21.67	24.70
611	305	202			-	-	-	15.37	18.49	21.58	24.65	27.70
1591	795	527	**1381M**	†13.8 x 1M-SH	-	-	-	-	13.75	16.84	19.91	22.96
522	261	173			-	-	-	-	16.53	19.68	22.80	25.89

AP160M (1922V BELT)

DRIVEN SPEED			PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS											
					VARIABLE SPEED V-BELT PART NUMBER											
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1922V 443	1922V 460	1922V 526	1922V 604	1922V 646	1922V 686	1922V 721	1922V 751	1922V 806	1922V 891	1922V 1006	1922V 1146
3340	1670	1107	**661N**	6.6 x 1N-SK	12.0	12.9	16.2	20.1	22.2	24.2	25.9	27.4	30.2	34.4	40.2	47.2
1114	557	369			15.2	16.0	19.4	23.3	25.4	27.4	29.1	30.6	33.4	37.7	43.4	50.4
2900	1450	962	**761N**	7.6 x 1N-SK	11.2	12.1	15.4	19.3	21.4	23.4	25.1	26.6	29.4	33.6	39.4	46.4
968	484	321			14.3	15.1	18.5	22.4	24.5	26.5	28.3	29.8	32.6	36.8	42.6	49.6
2564	1282	849	**861N**	8.6 x 1N-SK	10.4	11.3	14.6	18.5	20.6	22.6	24.3	25.8	28.6	32.8	38.6	45.6
854	427	283			13.4	14.2	17.6	21.6	23.7	25.7	27.5	29.0	31.7	36.0	41.8	48.8
2296	1148	761	**961N**	9.6 x 1N-SK	9.5	10.4	13.7	17.6	19.8	21.8	23.5	25.0	27.8	32.0	37.8	44.8
766	383	254			12.4	13.3	16.7	20.7	22.8	24.8	26.6	28.1	30.9	35.2	41.0	48.0
2080	1040	689	**1061N**	10.6 x 1N-SK	-	9.5	12.8	16.8	18.9	20.9	22.7	24.2	26.9	31.2	37.0	44.0
694	347	230			-	12.3	15.8	19.8	21.9	24.0	25.7	27.2	30.0	34.3	40.1	47.1
1900	950	630	**1161N**	11.6 x 1N-SK	-	-	11.9	15.9	18.0	20.1	21.8	23.3	26.1	30.4	36.1	43.1
634	317	210			-	-	14.8	18.8	21.0	23.0	24.8	26.4	29.1	33.4	39.2	46.3
1622	811	537	**1361N**	13.6 x 1N-SK	-	-	-	14.1	16.3	18.3	20.1	21.6	24.4	28.7	34.5	41.5
540	270	179			-	-	-	16.9	19.1	21.2	23.0	24.6	27.4	31.7	37.5	44.6
1412	706	468	**1561N**	15.6 x 1N-SK	-	-	-	12.1	14.4	16.4	18.3	19.8	22.6	27.0	32.8	39.8
472	236	156			-	-	-	14.7	17.1	19.2	21.2	22.6	25.5	29.9	35.8	42.9
1252	626	415	**1761N**	17.6 x 1N-SK	-	-	-	-	-	14.4	16.3	17.9	20.8	25.1	31.0	38.1
418	209	138			-	-	-	-	-	17.0	19.0	20.6	23.5	28.0	33.9	41.4

Refer to table on page D1—52 for additional belts available.

†Check with factory for availability.

Selection Charts

AP200N (1922V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS											
				VARIABLE SPEED V-BELT PART NUMBER											
1750 RPM Motor	1160 RPM Motor			1922V 443	1922V 460	1922V 526	1922V 604	1922V 646	1922V 686	1922V 721	1922V 751	1922V 806	1922V 891	1922V 1006	1922V 1146
2086	1383	**661N**	6.6 x 1N-SK	10.8	11.6	15.0	18.9	21.0	23.0	24.7	26.2	29.0	33.2	39.0	45.9
695	461			14.8	15.6	19.0	22.9	25.0	27.0	28.8	30.3	33.0	37.3	43.0	50.1
1812	1201	**761N**	7.6 x 1N-SK	10.0	10.9	14.2	18.1	20.2	22.2	23.9	25.4	28.2	32.4	38.2	45.2
604	400			13.9	14.8	18.1	22.0	24.2	26.2	27.9	29.4	32.2	36.4	42.2	49.2
1601	1061	**861N**	8.6 x 1N-SK	-	10.1	13.4	17.3	19.4	21.4	23.1	24.6	27.4	31.6	37.4	44.4
534	354			-	13.9	17.2	21.2	23.3	25.3	27.1	28.6	31.3	35.6	41.4	48.4
1435	951	**961N**	9.6 x 1N-SK	-	-	12.5	16.5	18.6	20.6	22.3	23.8	26.6	30.8	36.6	43.6
478	317			-	-	16.3	20.3	22.4	24.5	26.2	27.8	30.5	34.8	40.6	47.6
1299	861	**1061N**	10.6 x 1N-SK	-	-	11.7	15.7	17.8	19.8	21.5	23.0	25.8	30.0	35.8	42.8
433	287			-	-	15.4	19.4	21.6	23.6	25.4	26.9	29.7	33.9	39.7	46.8
1187	787	**1161N**	11.6 x 1N-SK	-	-	10.9	14.8	16.9	18.9	20.7	22.2	25.0	29.2	35.0	42.0
396	262			-	-	14.4	18.5	20.6	22.7	24.5	26.0	28.8	33.1	38.9	45.9
1012	671	**1361N**	13.6 x 1N-SK	-	-	-	13.0	15.2	17.2	19.0	20.5	23.3	27.6	33.3	40.4
337	224			-	-	-	16.6	18.8	20.9	22.7	24.2	27.0	31.3	37.2	44.2
883	585	**1561N**	15.6 x 1N-SK	-	-	-	-	13.3	15.4	17.2	18.7	21.5	25.8	31.6	38.7
294	195			-	-	-	-	16.7	18.9	20.7	22.3	25.2	29.4	35.4	42.5
782	518	**1761N**	17.6 x 1N-SK	-	-	-	-	-	-	15.3	16.9	19.7	24.1	29.9	37.0
261	173			-	-	-	-	-	-	18.6	20.3	23.2	27.7	33.6	40.7

AP225P (2322V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVE COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS										
				BELT PART NUMBER										
1750 RPM Motor	1160 RPM Motor			2322V 441	2322V 481	2322V 521	2322V 541	2322V 601	2322V 661	2322V 681	2322V 721	2322V 801	2322V 1001	2322V 1061
2333	1547	**661P**	6.6 x 1P-SK	9.89	11.90	13.91	14.91	17.92	20.92	21.92	23.93	27.93	37.94	40.94
777	515			14.44	16.45	18.47	19.47	22.48	25.49	26.50	28.50	32.51	42.52	45.52
2026	1343	**761P**	7.6 x 1P-SK	-	11.15	13.15	14.15	17.16	20.16	21.16	23.16	27.16	37.16	40.16
675	447			-	15.59	17.61	18.62	21.64	24.66	25.66	27.67	31.69	41.71	44.71
1791	1187	**861P**	8.6 x 1P-SK	-	10.38	12.38	13.38	16.38	19.38	20.38	22.38	26.38	36.38	39.38
596	395			-	14.70	16.74	17.75	20.78	23.81	24.82	26.83	30.85	40.89	43.89
1604	1063	**961P**	9.6 x 1P-SK	-	-	11.59	12.59	15.59	18.59	19.59	21.59	25.59	35.59	38.59
534	354			-	-	15.83	16.86	19.91	22.95	23.96	25.98	30.01	40.06	43.07
1433	950	**1081P**	10.8 x 1P-SK	-	-	-	11.65	14.66	17.66	18.67	20.67	24.67	34.68	37.68
477	316			-	-	-	15.79	18.87	21.93	22.95	24.98	29.02	39.09	42.11
1311	869	**1181P**	11.8 x 1P-SK	-	-	-	-	13.82	16.84	17.84	19.85	23.86	33.87	36.88
436	289			-	-	-	-	17.95	21.03	22.05	24.09	28.15	38.24	41.26
1120	742	**1381P**	13.8 x 1P-SK	-	-	-	-	-	15.12	16.13	18.15	22.19	32.23	35.24
373	247			-	-	-	-	-	19.15	20.19	22.25	26.36	36.52	39.55
978	648	**1581P**	15.8 x 1P-SK	-	-	-	-	-	-	14.32	16.37	20.45	30.55	33.57
326	216			-	-	-	-	-	-	18.22	20.33	24.99	34.74	37.79
868	575	**1781P**	17.8 x 1P-SK	-	-	-	-	-	-	-	-	18.63	28.82	31.86
289	191			-	-	-	-	-	-	-	-	22.55	32.92	35.99

Refer to table on page D1—52 and D1—53 for additional belts available.

Selection Charts

AP260T (2926V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				BELT PART NUMBER							
1750 RPM Motor	1160 RPM Motor			2926V 574	2926V 606	2926V 646	2926V 686	2926V 726	2926V 834	2926V 906	2926V 1006
2360	1567	**761T**	7.6 x 1T-SK	14.61	16.22	18.23	20.23	22.24	27.64	31.25	36.25
788	522			19.93	21.53	23.54	25.55	27.56	32.97	36.58	41.59
2086	1383	**861T**	8.6 x 1T-SK	13.87	15.47	17.47	19.47	21.48	26.88	30.48	35.48
696	461			19.07	20.68	22.70	24.71	26.72	32.14	35.76	40.77
1868	1239	**961T**	9.6 x 1T-SK	13.10	14.70	16.70	18.70	20.71	26.11	29.71	34.71
623	413			18.19	19.81	21.84	23.86	25.87	31.31	34.92	39.94
1692	1122	**1061T**	10.6 x 1T-SK	12.32	13.92	15.92	17.92	19.92	25.32	28.92	33.92
565	374			17.29	18.92	20.96	22.99	25.01	30.46	34.08	39.11
1546	1025	**1161T**	11.6 x 1T-SK	-	13.12	15.12	17.12	19.12	24.53	28.13	33.13
516	342			-	18.01	20.06	22.10	24.13	29.60	33.23	38.27
1319	874	**1361T**	13.6 x 1T-SK	-	-	13.45	15.47	17.48	22.90	26.51	31.52
440	292			-	-	18.18	20.26	22.32	27.83	31.49	36.55
1150	762	**1561T**	15.6 x 1T-SK	-	-	-	-	15.75	21.21	24.84	29.86
384	254			-	-	-	-	20.41	26.00	29.69	34.79
1019	676	**1761T**	17.6 x 1T-SK	-	-	-	-	-	19.45	23.11	28.16
340	225			-	-	-	-	-	24.10	27.84	32.98
915	607	**1961T**	19.6 x 1T-SK	-	-	-	-	-	17.60	21.31	26.41
305	202			-	-	-	-	-	22.11	25.91	31.11

AP255W (4430V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS								
				BELT PART NUMBER								
1750 RPM Motor	1160 RPM Motor			4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1030	4430V 1090	4430V 1150	4430V 1320
1750	1160	**1001W**	10.0 x 1W-SF	20.79	23.79	26.79	29.79	32.79	35.79	38.79	41.79	50.29
744	493			25.13	28.15	31.16	34.18	37.19	40.19	43.20	46.21	54.72
1591	1055	**1101W**	11.0 x 1W-SF	20.00	23.00	26.00	29.00	32.00	35.00	38.00	41.00	49.50
676	448			24.27	27.30	30.32	33.34	36.35	39.36	42.38	45.38	53.91
1458	967	**1201W**	12.0 x 1W-SF	19.19	22.19	25.20	28.20	31.20	34.20	37.20	40.21	48.71
620	411			23.39	26.43	29.46	32.49	35.51	38.52	41.54	44.45	53.08
1346	892	**1301W**	13.0 x 1W-SF	18.37	21.38	24.38	27.39	30.39	33.40	36.40	39.40	47.91
572	379			22.50	25.55	28.59	31.62	34.65	37.68	40.70	43.71	52.25
1250	829	**1401W**	14.0 x 1W-SF	17.52	20.54	23.56	26.57	29.57	32.58	35.59	38.59	47.10
531	352			21.58	24.65	27.70	30.75	33.79	36.82	39.84	42.86	51.41
1167	773	**1501W**	15.0 x 1W-SF	16.66	19.69	22.71	25.73	28.74	31.76	34.76	37.77	46.29
496	329			20.64	23.73	26.80	29.86	32.91	35.95	38.98	42.01	50.57
1094	725	**1601W**	16.0 x 1W-SF	15.77	18.82	21.85	24.88	27.90	30.92	33.93	36.94	45.47
465	308			19.68	22.80	25.89	28.96	32.02	35.07	38.11	41.14	49.72
972	644	**1801W**	18.0 x 1W-SF	-	17.01	20.08	23.14	26.18	29.21	32.24	35.26	43.81
413	274			-	20.85	23.99	27.10	30.19	33.27	36.33	39.38	47.99
875	580	**2001W**	20.0 x 1W-SF	-	-	18.22	21.31	24.39	27.45	30.49	33.53	42.11
372	247			-	-	22.01	25.17	28.30	31.41	34.50	37.57	46.23
795	527	**2201W**	22.0 x 1W-SF	-	-	-	19.40	22.52	25.62	28.70	31.76	40.38
338	224			-	-	-	23.16	26.34	29.49	32.61	35.72	44.43
729	483	**2201W**	22.0 x 1W-SF	-	-	-	-	20.57	23.72	26.83	29.93	38.61
310	205			-	-	-	-	24.29	27.50	30.66	33.80	42.60
625	414	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	22.86	26.05	34.93
266	176			-	-	-	-	-	-	26.53	29.78	38.78

Refer to table on page D1—53 for additional belts available.

Selection Charts

AP255S (3230HV BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
				VARIABLE SPEED V-BELT PART NUMBER									
1750 RPM Motor	1160 RPM Motor			3230 HV 603	3230 HV 613	3230 HV 626	3230 HV 644	3230 HV 685	3230 HV 702	3230 HV 723	3230 HV 856	3230 HV 960	3230 HV 1060
1842	1221	**951S**	9.5 x 1S-SF	14.83	15.33	15.98	16.88	18.93	19.78	20.83	27.48	32.68	37.68
783	519			19.16	19.66	20.32	21.22	23.29	24.14	25.20	31.88	37.10	42.11
1750	1160	**1001S**	10.0 x 1S-SF	14.44	14.94	15.59	16.49	18.54	19.39	20.44	27.09	32.29	37.29
744	493			18.72	19.23	19.88	20.79	22.86	23.72	24.78	31.46	36.68	41.70
1591	1055	**1101S**	11.0 x 1S-SF	13.64	14.14	14.80	15.70	17.75	18.60	19.65	26.30	31.50	36.50
676	448			17.83	18.34	19.00	19.91	21.99	22.85	23.91	30.62	35.85	40.87
1458	967	**1201S**	12.0 x 1S-SF	12.83	13.33	13.98	14.88	16.94	17.79	18.84	25.50	30.70	35.70
620	411			16.91	17.43	18.09	19.01	21.10	21.97	23.04	29.76	35.00	40.03
1346	892	**1301S**	13.0 x 1S-SF	-	12.49	13.14	14.05	16.11	16.96	18.02	24.68	29.89	34.70
572	379			-	16.49	17.16	18.09	20.20	21.07	22.14	28.89	34.15	39.19
1250	829	**1401S**	14.0 x 1S-SF	-	-	-	13.18	15.26	16.11	17.17	23.86	29.07	34.08
531	352			-	-	-	17.14	19.26	20.14	21.22	28.01	33.28	38.33
1167	773	**1501S**	15.0 x 1S-SF	-	-	-	-	14.38	15.24	16.31	23.02	28.24	33.26
496	329			-	-	-	-	18.31	19.19	20.28	27.11	32.40	37.46
1094	725	**1601S**	16.0 x 1S-SF	-	-	-	-	-	14.34	15.42	22.16	27.40	32.43
465	308			-	-	-	-	-	18.21	19.31	26.19	31.51	36.59
972	644	**1801S**	18.0 x 1S-SF	-	-	-	-	-	-	-	20.39	25.67	30.72
413	274			-	-	-	-	-	-	-	24.31	29.68	34.80
875	580	**2001S**	20.0 x 1S-SF	-	-	-	-	-	-	-	18.53	23.88	28.97
372	247			-	-	-	-	-	-	-	22.33	27.78	32.96

AP321W, AP322W, & AP323W (4430V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS								
				BELT PART NUMBER								
1750 RPM Motor	1160 RPM Motor			4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1030	4430V 1090	4430V 1150	4430V 1320
2231	1479	**1001W**	10.0 x 1W-SF	18.57	21.58	24.59	27.59	30.60	33.60	36.60	39.60	48.11
744	493			25.13	28.15	31.16	34.18	37.19	40.19	43.20	46.21	54.72
2028	1345	**1101W**	11.0 x 1W-SF	17.87	20.82	23.83	26.83	29.83	32.83	35.83	38.83	47.34
676	448			24.27	27.30	30.32	33.34	36.35	39.36	42.38	45.38	53.91
1859	1233	**1201W**	12.0 x 1W-SF	17.05	20.06	23.06	26.06	29.06	32.06	35.06	38.06	46.56
620	411			23.39	26.43	29.46	32.49	35.51	38.52	41.54	44.55	53.08
1716	1138	**1301W**	13.0 x 1W-SF	16.27	19.27	22.27	25.27	28.27	31.27	34.27	37.27	45.77
572	379			22.50	25.55	28.59	31.62	34.65	37.68	40.70	43.71	52.25
1594	1056	**1401W**	14.0 x 1W-SF	15.47	18.48	21.48	24.48	27.48	30.48	33.48	36.48	44.98
531	352			21.58	24.65	27.70	30.75	33.79	36.82	39.84	42.86	51.41
1488	986	**1501W**	15.0 x 1W-SF	-	17.66	20.67	23.67	26.68	29.68	32.68	35.68	44.19
496	329			-	23.73	26.80	29.86	32.91	35.95	38.98	42.01	50.57
1395	924	**1601W**	16.0 x 1W-SF	-	16.83	19.84	22.85	25.86	28.87	31.87	34.88	43.38
465	308			-	22.80	25.89	28.96	32.02	35.07	38.11	41.14	49.72
1240	822	**1801W**	18.0 x 1W-SF	-	-	18.14	21.17	24.19	27.21	30.22	33.23	41.76
413	274			-	-	23.99	27.10	30.19	33.27	36.33	39.38	47.99
1116	740	**2001W**	20.0 x 1W-SF	-	-	-	19.41	22.46	25.50	28.53	31.55	40.10
372	247			-	-	-	25.17	28.30	31.41	34.50	37.57	46.23
1014	672	**2201W**	22.0 x 1W-SF	-	-	-	-	20.65	23.72	26.78	29.82	38.40
338	224			-	-	-	-	26.34	29.49	32.61	35.72	44.43
930	616	**2401W**	24.0 x 1W-SF	-	-	-	-	-	21.87	24.96	28.03	36.67
310	205			-	-	-	-	-	27.50	30.66	33.80	42.60
797	528	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	-	24.25	33.06
266	176			-	-	-	-	-	-	-	29.78	38.78

Refer to table on page D1—53 for additional belts available.

MCS Sheave

Features



Wood's MCS sheaves incorporate a proven lubrication system that eliminates fretting corrosion, freezing, and sticking. Wood's exclusive cam followers exert side wall pressure on the belt in proportion to the torque required to carry the load. As the load increases, so does the grip on the belt. Thus, constant pitch diameter and constant speed are maintained under varying torque loads. Heavy thrust springs are not constantly squeezing the flanges against the belt and cam pressure is exerted only when the load requires it, greatly prolonging belt life.

- **15 thru 125 HP @ 1750 RPM**
- **Rugged Cast Iron Construction**
- **Dynamically Balanced**
- **V to V Operation**
- **Exclusive Oil Lube Design**
- **Cam Assisted Operation**
- **Proven Reliability**

NOTE: **MCS sheaves are not recommended for vertical shaft applications or on applications involving the use of plug reversing or plug stop motors.**

Selection Charts

PRODUCT NO.	HP RATING @		BELT	PITCH DIA.		DRIVE CHART PAGE NO.
	1750	1160		MIN.	MAX.	
MCS-10W-HD	15	7-1/2 - 10	4430V	5.00	10.00	D1—10
MCS-12W-HD	15 - 20	7-1/2 - 15	4430V	6.00	12.00	D1—10
MCS-12S	15 - 25	7-1/2 - 15	3230HV	6.00	12.00	D1—11
MCS-13S	*25 - 30	15 - 20	3230HV	6.38	12.75	D1—11
MCS-13-Y	*25 - 40	15 - 30	4836V	6.38	12.75	D1—12
MCS-14-Y	*40 - 60	25 - 40	4836V	7.00	14.00	D1—12
MCS-15-Y	*60 - 125	40 - 75	4836V	10.00	15.00	D1—13

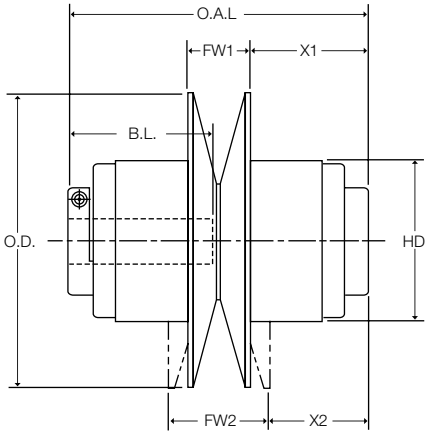
Horsepower ratings are based on constant torque and are shown for maximum pitch diameters.
Horsepower ratings at other pitch diameters reduce in proportion the driven speed.
* Use MBA motor base only.

STOCK BORE SIZES

PRODUCT NO.	1-5/8	1-7/8	2-1/8	2-3/8	2-7/8	MAX. BORE
MCS-10W-HD	X	X	-	-	-	1-7/8
MCS-12W-HD	X	X	-	-	-	1-7/8
MCS-12S ▲	X	X	-	-	-	1-7/8
MCS-13S ▲	-	X	-	-	-	1-7/8
MCS-13-Y ▲	-	X	X	-	-	2-1/8
MCS-14-Y ▲	-	-	X	X	-	2-7/8
MCS-15-Y ▲	-	-	-	X	X	2-7/8

♦ Clamp hub style.

ORDERING EXAMPLE: MCS12S x 1-5/8



MCS SHEAVE DIMENSIONS

PRODUCT NO.	O.D.	HD	O.A.L.	B.L.	FW 1	X1	FW2	X2	WT. LBS.
MCS-10W-HD	10.40	6-3/4	9-3/4	5-13/16	3-1/4	3.09	4-9/16	2-7/16	57
MCS-12W-HD	12-1/4	6-3/4	9-3/4	5-3/4	3-1/4	3.09	4-13/16	2-5/16	63
MCS-12S	12-1/4	6-3/4	9-9/16	6	2-1/2	3-3/16	4-1/16	2-3/8	69
MCS-13S	13	6-3/4	9-9/16	6	2-1/2	3-3/16	4-3/16	2-5/16	67
MCS-13-Y	13	6-5/8	10-15/16	6	3.40	3-3/8	5-1/2	2.34	72
MCS-14-Y	14.45	9.26	14	7-1/2	3-3/4	4.53	6.02	3.4	200
MCS-15Y	15.45	9.26	14	7-1/2	3-3/4	4.53	5.37	3.72	200

For optional Sight-Lube lubrication system, refer to D1—23.

Selection Charts

MCS-10W-HD (4430V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS												
				VARIABLE SPEED V-BELT NUMBER												
1750 RPM Motor	1160 RPM Motor			4430V 555	4430V 578	4430V 610	4430V 630	4430V 660	4430V 690	4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320
2188	1450	**801W**	8.0 x 1W-SF	13.5	14.7	16.2	17.2	18.7	20.2	22.2	25.2	28.2	31.2	34.2	40.2	51.7
1094	725			17.4	18.6	20.1	21.2	22.6	24.1	26.1	29.1	32.1	35.1	38.1	44.1	55.6
2059	1365	**851W**	8.5 x 1W-SF	13.1	14.3	15.8	16.8	18.3	19.8	21.8	24.8	27.8	30.8	33.8	39.8	51.3
1029	682			16.9	18.2	19.7	20.7	22.2	23.7	25.7	28.7	31.7	34.7	37.7	43.7	55.2
1944	1299	**901W**	9.0 x 1W-SF	12.7	13.9	15.4	16.4	17.9	19.4	21.4	24.4	27.4	30.4	33.5	39.5	51.0
972	644			16.5	17.8	19.3	20.3	21.8	23.3	25.3	28.3	31.3	34.3	37.3	43.3	54.8
1842	1221	**951W**	9.5 x 1W-SF	12.3	13.6	15.1	16.1	17.6	19.1	21.0	24.0	27.0	30.1	33.1	39.1	50.6
921	611			16.1	17.3	18.9	19.9	21.4	22.9	24.9	27.9	30.9	33.9	36.9	42.9	54.4
1750	1160	**1001W**	10.0 x 1W-SF	11.9	13.2	14.7	15.7	17.2	18.7	20.7	23.7	26.7	29.7	32.7	38.7	50.2
875	580			15.6	16.9	18.4	19.4	20.9	22.5	24.5	27.5	30.5	33.5	36.5	42.5	54.0
1591	1054	**1101W**	11.0 x 1W-SF	11.0	12.4	13.9	14.9	16.4	17.9	19.9	22.9	25.9	28.9	31.9	37.9	49.4
795	527			14.7	16.0	17.6	18.6	20.1	21.6	23.6	26.6	29.7	32.7	35.7	41.7	53.2
1458	967	**1201W**	12.0 x 1W-SF	-	11.6	13.1	14.1	15.6	17.1	19.1	22.1	25.1	28.1	31.1	37.1	48.6
729	483			-	15.1	16.7	17.7	19.2	20.7	22.7	25.8	28.8	31.8	34.8	40.9	52.4
1346	892	**1301W**	13.0 x 1W-SF	-	-	12.4	13.2	14.7	16.2	18.2	21.2	24.3	27.3	30.3	36.3	47.8
673	446			-	-	15.9	16.8	18.3	19.8	21.9	24.9	28.0	31.0	34.0	40.0	51.6
1250	828	**1401W**	14.0 x 1W-SF	-	-	-	12.5	13.9	15.4	17.4	20.4	23.4	26.5	29.5	35.5	47.0
625	414			-	-	-	16.0	17.3	18.9	21.0	24.0	27.1	30.1	33.2	39.2	50.8
1167	773	**1501W**	15.0 x 1W-SF	-	-	-	-	13.2	14.5	16.5	19.6	22.6	25.6	28.6	34.7	46.2
583	387			-	-	-	-	16.5	18.0	20.0	23.1	26.2	29.2	32.3	38.3	49.9
1094	725	**1601W**	16.0 x 1W-SF	-	-	-	-	-	13.8	15.7	18.7	21.7	24.8	27.8	33.8	45.4
547	363			-	-	-	-	-	17.1	19.1	22.2	25.3	28.3	31.4	37.5	49.1
972	644	**1801W**	18.0 x 1W-SF	-	-	-	-	-	-	-	16.9	20.0	23.0	26.1	32.1	43.7
486	322			-	-	-	-	-	-	-	19.2	24.4	26.5	29.6	35.7	47.4
875	580	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	-	-	18.1	21.2	24.3	30.4	42.0
438	290			-	-	-	-	-	-	-	-	21.4	24.6	22.7	33.9	45.6
795	527	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	-	-	19.3	22.4	28.6	40.3
398	264			-	-	-	-	-	-	-	-	-	22.6	25.8	32.0	43.9
729	483	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	20.5	26.8	38.5
365	242			-	-	-	-	-	-	-	-	-	-	23.7	30.1	42.0
625	414	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	-	-	-	-	-	22.9	35.0
312	207			-	-	-	-	-	-	-	-	-	-	-	26.1	38.4

MCS-12W-HD (4430V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS												
				VARIABLE SPEED V-BELT NUMBER												
1750 RPM Motor	1160 RPM Motor			4430V 555	4430V 578	4430V 610	4430V 630	4430V 660	4430V 690	4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320
2625	1740	**801W**	8.0 x 1W-SF	11.8	13.0	14.5	15.5	17.1	18.6	20.6	23.6	26.6	29.6	32.6	38.6	50.1
1313	870			16.6	17.9	19.4	20.4	21.9	23.4	25.3	28.3	31.3	34.4	37.4	43.4	54.9
2470	1638	**851W**	8.5 x 1W-SF	11.4	12.7	14.2	15.2	16.7	18.2	20.2	23.2	26.2	29.2	32.2	38.2	49.7
1235	819			16.2	17.4	18.9	19.9	21.5	23.0	24.9	27.9	30.9	34.0	37.0	43.0	54.5
2333	1547	**901W**	9.0 x 1W-SF	10.7	12.3	13.8	14.8	16.3	17.8	19.8	22.8	25.8	28.8	31.9	37.9	49.4
1167	773			15.9	17.0	18.5	19.5	21.0	22.5	24.5	27.5	30.5	33.6	36.6	42.6	64.1
2210	1465	**951W**	9.5 x 1W-SF	-	11.9	13.4	14.4	15.9	17.4	19.4	22.4	25.5	28.5	31.5	37.5	49.0
1105	733			-	16.6	18.1	19.1	20.6	22.1	24.1	27.1	30.1	33.2	36.2	42.2	53.7
2100	1392	**1001W**	10.0 x 1W-SF	-	11.6	13.1	14.1	15.6	17.1	19.1	22.1	25.1	28.1	31.1	37.1	48.6
1050	696			-	16.2	17.7	18.7	20.2	21.7	23.7	26.7	29.7	32.8	35.8	41.8	53.3
1909	1265	**1101W**	11.0 x 1W-SF	-	-	12.4	13.3	14.7	16.3	18.3	21.3	24.3	27.3	30.3	36.3	47.8
954	633			-	-	17.0	17.9	19.3	20.9	22.9	25.9	28.9	31.9	34.9	40.9	52.5
1750	1160	**1201W**	12.0 x 1W-SF	-	-	-	12.7	14.0	15.5	17.5	20.5	23.5	26.5	29.5	35.5	47.0
875	580			-	-	-	17.2	18.5	20.0	22.0	25.0	28.1	31.1	34.1	40.1	51.7
1615	1071	**1301W**	13.0 x 1W-SF	-	-	-	-	13.4	14.7	16.7	19.7	22.7	25.7	28.7	34.7	46.2
808	535			-	-	-	-	17.7	19.1	21.2	24.2	27.2	30.3	33.3	39.3	50.8
1500	994	**1401W**	14.0 x 1W-SF	-	-	-	-	-	14.1	15.9	18.9	21.9	24.9	27.9	33.9	45.4
750	497			-	-	-	-	-	18.4	20.3	23.3	26.4	29.4	32.4	38.5	50.0
1400	928	**1501W**	15.0 x 1W-SF	-	-	-	-	-	-	15.1	18.1	21.1	24.1	27.1	33.1	44.7
700	464			-	-	-	-	-	-	19.3	21.4	25.5	28.5	31.6	37.6	49.2
1313	870	**1601W**	16.0 x 1W-SF	-	-	-	-	-	-	-	17.3	20.3	23.3	26.3	32.3	43.8
656	435			-	-	-	-	-	-	-	21.5	24.6	27.6	30.7	36.8	48.3
1167	773	**1801W**	18.0 x 1W-SF	-	-	-	-	-	-	-	-	18.6	21.6	24.6	30.7	42.2
583	387			-	-	-	-	-	-	-	-	22.7	25.8	28.9	35.0	46.6
1050	696	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	-	-	16.8	19.8	22.9	29.0	40.6
525	348			-	-	-	-	-	-	-	-	20.8	23.9	27.1	33.2	44.9
954	633	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	-	-	18.1	21.1	27.2	38.9
477	316			-	-	-	-	-	-	-	-	-	22.0	25.1	31.4	43.2
875	580	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	19.2	25.4	37.1
438	290			-	-	-	-	-	-	-	-	-	-	23.1	29.4	41.3
750	497	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	-	-	-	-	-	-	33.6
375	248			-	-	-	-	-	-	-	-	-	-	-	-	37.7

Refer to table on page D1—53 for additional belts available.

Selection Charts

MCS-12S (3230HV BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS													
				VARIABLE SPEED V-BELT NUMBER													
1750 RPM Motor	1160 RPM Motor			3230 HV 585	3230 HV 603	3230 HV 613	3230 HV 620	3230 HV 626	3230 HV 644	3230 HV 670	3230 HV 685	3230 HV 702	3230 HV 723	3230 HV 821	3230 HV 931	3230 HV 960	3230 HV 1060
2210	1465	**951S**	9.5 x 1S-SF	12.3	13.2	13.7	14.1	14.4	15.3	16.6	17.3	18.2	19.2	24.3	25.9	31.1	36.1
1105	733			17.0	17.9	18.4	18.7	19.0	20.0	21.3	22.0	22.9	23.9	28.8	30.6	35.8	40.8
2100	1392	**1001S**	10.0 x 1S-SF	11.9	12.8	13.3	13.7	14.0	14.9	16.2	16.9	17.8	18.9	23.9	25.6	30.7	35.7
1050	696			16.6	17.5	18.0	18.3	18.6	19.5	20.8	21.6	22.5	23.5	28.4	30.2	35.5	40.4
1909	1265	**1101S**	11.0 x 1S-SF	-	12.1	12.6	12.9	13.2	14.1	15.4	16.2	17.0	18.1	23.0	24.3	29.9	34.9
955	633			-	16.8	17.1	17.5	17.8	18.7	20.0	20.8	21.6	22.7	27.6	29.4	34.6	39.6
1750	1160	**1201S**	12.0 x 1S-SF	-	-	-	-	12.4	13.4	14.7	15.4	16.3	17.3	22.3	24.0	29.2	34.2
875	580			-	-	-	-	16.9	17.8	19.1	19.9	20.7	21.8	26.8	28.5	33.7	38.8
1615	1071	**1301S**	13.0 x 1S-SF	-	-	-	-	-	12.5	13.9	14.6	15.5	16.5	21.4	23.2	28.3	33.4
807	535			-	-	-	-	-	16.9	18.2	19.0	19.9	20.9	25.9	27.7	32.9	37.9
1500	994	**1401S**	14.0 x 1S-SF	-	-	-	-	-	-	-	13.8	14.6	15.7	20.7	22.4	27.6	32.6
750	497			-	-	-	-	-	-	-	18.1	19.0	20.0	25.0	26.8	32.1	37.1
1400	928	**1501S**	15.0 x 1S-SF	-	-	-	-	-	-	-	-	13.8	14.9	20.0	21.6	26.8	31.3
700	464			-	-	-	-	-	-	-	-	18.1	19.1	24.6	26.0	31.2	36.2
1312	870	**1601S**	16.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	19.1	20.8	25.9	30.9
656	435			-	-	-	-	-	-	-	-	-	-	23.2	25.1	30.3	35.4
1166	733	**1801S**	18.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	17.3	19.0	24.3	29.3
583	386			-	-	-	-	-	-	-	-	-	-	21.4	23.2	28.5	33.6
1050	696	**2001S**	20.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	-	17.2	22.5	27.6
525	348			-	-	-	-	-	-	-	-	-	-	-	21.2	26.7	31.8

MCS-13S (3230HV BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS													
				VARIABLE SPEED V-BELT NUMBER													
1750 RPM Motor	1160 RPM Motor			3230 HV 585	3230 HV 603	3230 HV 613	3230 HV 620	3230 HV 626	3230 HV 644	3230 HV 670	3230 HV 685	3230 HV 702	3230 HV 723	3230 HV 821	3230 HV 931	3230 HV 960	3230 HV 1060
2348	1557	**951S**	9.5 x 1S-SF	11.7	12.6	13.1	13.4	13.7	14.6	15.9	16.7	17.5	18.6	23.6	29.1	30.5	35.5
1175	779			16.7	17.6	18.1	18.5	18.8	19.7	21.0	21.7	22.6	23.6	28.6	34.1	35.5	40.5
2231	1479	**1001S**	10.0 x 1S-SF	-	12.0	12.7	13.1	13.4	14.3	15.6	16.3	17.2	18.2	23.3	28.7	30.1	35.1
1116	740			-	17.2	17.7	18.0	18.3	19.2	20.6	21.3	22.2	23.2	28.2	33.7	35.1	40.1
2028	1344	**1101S**	11.0 x 1S-SF	-	-	-	12.3	12.6	13.5	14.8	15.6	16.4	17.5	22.5	27.9	29.3	34.3
1015	673			-	-	-	17.2	17.5	18.4	19.7	20.5	21.3	22.4	27.4	33.0	34.3	39.3
1859	1232	**1201S**	12.0 x 1S-SF	-	-	-	-	-	12.8	14.0	14.8	15.7	16.7	21.7	27.1	28.6	33.6
930	617			-	-	-	-	-	17.5	18.9	19.6	20.5	21.5	26.5	32.0	33.4	38.5
1784	1183	**1301S**	13.0 x 1S-SF	-	-	-	-	-	-	13.3	14.0	14.9	15.9	20.9	26.4	27.8	32.8
858	569			-	-	-	-	-	-	18.0	18.7	19.6	20.7	25.7	31.2	32.6	37.6
1593	1056	**1401S**	14.0 x 1S-SF	-	-	-	-	-	-	-	-	14.1	15.1	20.2	25.5	27.0	32.0
737	488			-	-	-	-	-	-	-	-	18.7	19.8	24.8	30.4	31.8	36.0
1487	986	**1501S**	15.0 x 1S-SF	-	-	-	-	-	-	-	-	-	14.3	19.3	24.8	26.2	31.2
744	493			-	-	-	-	-	-	-	-	-	18.9	23.9	29.5	30.9	36.0
1394	924	**1601S**	16.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	18.6	24.0	25.4	30.4
697	463			-	-	-	-	-	-	-	-	-	-	23.0	28.6	30.1	35.1
1240	822	**1801S**	18.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	16.8	22.3	23.7	28.8
620	411			-	-	-	-	-	-	-	-	-	-	21.1	27.4	28.3	33.4
1115	740	**2001S**	20.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	-	20.5	22.0	27.0
558	370			-	-	-	-	-	-	-	-	-	-	-	24.9	26.4	31.6

Refer to table on page D1—53 for additional belts available.

Selection Charts

MCS-13-Y (4836V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS										
				VARIABLE SPEED V-BELT PART NUMBER										
1750 RPM Motor	1160 RPM Motor			4836V 670	4836V 710	4836V 800	4836V 850	4836V 900	4836V 950	4836V 1000	4836V 1060	4836V 1120	4836V 1180	4836V 1250
2231	1479	**1001Y**	†10.0 x 1Y-F	15.6	17.6	22.1	24.6	27.1	29.6	32.1	35.1	38.1	41.1	44.6
1117	740			20.6	22.6	27.1	29.6	32.1	34.6	37.1	40.1	43.1	46.1	49.6
2028	1345	**1101Y**	†11.0 x 1Y-F	14.8	16.8	21.3	23.8	26.3	28.8	31.3	34.3	37.3	40.3	43.8
1015	673			19.7	21.7	26.3	28.8	31.3	33.8	36.3	39.3	42.3	45.3	48.8
1859	1233	**1201Y**	12.0 x 1Y-F	14.1	16.1	20.6	23.1	25.6	28.1	30.6	33.6	36.6	39.6	43.1
930	617			18.9	20.9	25.4	27.9	30.4	33.0	35.5	38.5	41.5	44.5	48.0
1594	1056	**1401Y**	14.0 x 1Y-F	-	14.5	19.0	21.5	24.0	26.5	29.0	32.0	35.0	38.0	41.5
798	529			-	19.1	23.7	26.2	28.7	31.3	33.8	36.8	39.8	42.8	46.3
1395	924	**1601Y**	16.0 x 1Y-F	-	-	17.3	19.9	22.4	24.9	27.4	30.4	33.4	36.4	39.9
698	463			-	-	21.9	24.5	27.0	29.5	32.1	35.1	38.1	41.1	44.7
1240	822	**1801Y**	18.0 x 1Y-F	-	-	-	18.2	20.7	23.2	25.7	28.7	31.8	34.8	38.3
620	411			-	-	-	22.6	25.2	27.8	30.3	33.4	36.4	39.4	43.0
1116	740	**2001Y**	20.0 x 1Y-F	-	-	-	-	18.9	21.5	24.0	27.0	30.1	33.1	36.6
558	370			-	-	-	-	23.3	25.9	28.5	31.5	34.6	37.7	41.2
930	616	**2401Y**	24.0 x 1Y-F	-	-	-	-	-	-	20.4	23.5	26.6	29.6	33.2
465	308			-	-	-	-	-	-	24.6	27.7	30.9	34.0	37.6
744	493	**3001Y**	30.0 x 1Y-F	-	-	-	-	-	-	-	-	-	23.9	27.6
372	247			-	-	-	-	-	-	-	-	-	28.0	31.8

† This companion sheave only recommended for 30 HP @ 1750 RPM & 20 HP @ 1160 RPM.

MCS-14-Y (4836V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS										
				VARIABLE SPEED V-BELT PART NUMBER										
1750 RPM Motor	1160 RPM Motor			4836V 670	4836V 710	4836V 750	4836V 850	4836V 900	4836V 950	4836V 1000	4836V 1060	4836V 1120	4836V 1180	4836V 1250
2450	1624	**1001Y**	†10.0 x 1Y-F	14.5	16.5	18.6	23.6	26.1	28.6	31.1	34.1	37.1	40.1	43.6
1225	812			20.1	22.1	24.1	29.1	31.6	34.1	36.6	39.6	42.6	45.6	49.1
2227	1476	**1101Y**	†11.0 x 1Y-F	13.8	15.8	17.8	22.8	25.3	27.8	30.3	33.3	36.3	39.3	42.8
1114	738			19.3	21.3	23.3	28.3	30.8	33.3	35.8	38.8	41.8	44.8	48.3
2042	1353	**1201Y**	†12.0 x 1Y-F	-	15.0	17.0	22.1	24.6	27.1	29.6	32.6	35.6	33.6	42.1
1021	677			-	20.4	22.4	27.5	30.0	32.5	35.0	38.0	41.0	44.0	47.5
1750	1160	**1401Y**	14.0 x 1Y-F	-	-	15.5	20.5	23.0	25.5	28.0	31.0	34.0	37.0	40.5
875	580			-	-	20.7	25.8	28.3	30.8	33.3	36.4	39.4	42.4	45.9
1531	1015	**1601Y**	16.0 x 1Y-F	-	-	-	18.9	21.4	23.9	26.4	29.4	32.4	35.4	38.9
766	508			-	-	-	24.0	26.5	29.1	31.6	34.6	37.7	40.7	44.2
1361	902	**1801Y**	18.0 x 1Y-F	-	-	-	17.3	19.8	22.3	24.8	27.8	30.8	33.8	37.3
681	451			-	-	-	22.2	24.8	27.3	29.9	32.9	36.0	39.0	42.5
1225	812	**2001Y**	20.0 x 1Y-F	-	-	-	-	18.1	20.6	23.1	26.1	29.2	32.2	35.7
613	406			-	-	-	-	22.9	25.5	28.1	31.1	34.2	37.2	40.8
1021	677	**2401Y**	24.0 x 1Y-F	-	-	-	-	-	-	-	22.6	25.7	28.7	32.3
510	338			-	-	-	-	-	-	-	27.3	30.5	33.6	37.2
816	541	**3001Y**	30.0 x 1Y-F	-	-	-	-	-	-	-	-	-	23.1	26.8
408	270			-	-	-	-	-	-	-	-	-	27.6	31.4

† This companion sheave only recommended for 50 HP @ 1750 RPM & 30 HP @ 1160 RPM.

Refer to table on page D1—53 for additional belts available.

Selection Charts

MCS-15-Y (4836V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
				VARIABLE SPEED V-BELT PART NUMBER									
1750 RPM Motor	1160 RPM Motor			4836V 710	4836V 750	4836V 850	4836V 900	4836V 950	4836V 1000	4836V 1060	4836V 1120	4836V 1180	4836V 1250
2625	1740	**1001Y**	†10.0 x 1Y-F	15.7	17.7	22.7	25.2	27.8	30.3	33.3	36.3	39.3	42.8
1750	1160			19.8	21.8	26.8	29.3	31.8	34.3	37.3	40.3	43.3	46.8
2386	1582	**1101Y**	†11.0 x 1Y-F	14.94	17.0	22.0	24.5	27.0	29.5	32.5	35.5	38.5	42.0
1590	1054			19.0	21.0	26.0	28.5	31.0	33.5	36.5	39.5	42.5	46.0
2188	1450	**1201Y**	†12.0 x 1Y-F	-	16.2	21.2	23.8	26.3	28.8	31.8	34.8	37.8	41.3
1458	967			-	20.2	25.2	27.7	30.2	32.7	35.7	38.7	41.7	45.2
1875	1242	**1401Y**	14.0 x 1Y-F	-	-	19.7	22.2	24.7	27.2	30.2	33.2	36.2	39.7
1250	828			-	-	23.6	26.1	28.6	31.1	34.1	37.1	40.1	43.6
1640	1088	**1601Y**	16.0 x 1Y-F	-	-	18.2	20.6	23.2	25.6	28.6	31.7	34.6	38.2
1094	725			-	-	21.9	24.4	26.9	29.4	32.4	35.4	38.5	42.0
1458	967	**1801Y**	18.0 x 1Y-F	-	-	-	19.0	21.5	24.0	27.0	30.0	33.0	36.5
972	644			-	-	-	22.7	25.2	27.7	30.8	33.8	36.8	40.3
1313	870	**2001Y**	20.0 x 1Y-F	-	-	-	-	19.9	22.4	25.4	28.4	31.4	34.9
875	580			-	-	-	-	23.4	26.0	29.0	32.1	35.1	38.6
1094	725	**2401Y**	24.0 x 1Y-F	-	-	-	-	-	-	21.9	25.0	28.0	31.5
729	483			-	-	-	-	-	-	25.3	28.4	31.5	35.1
875	580	**3001Y**	30.0 x 1Y-F	-	-	-	-	-	-	-	-	-	26.1
583	386			-	-	-	-	-	-	-	-	-	29.4

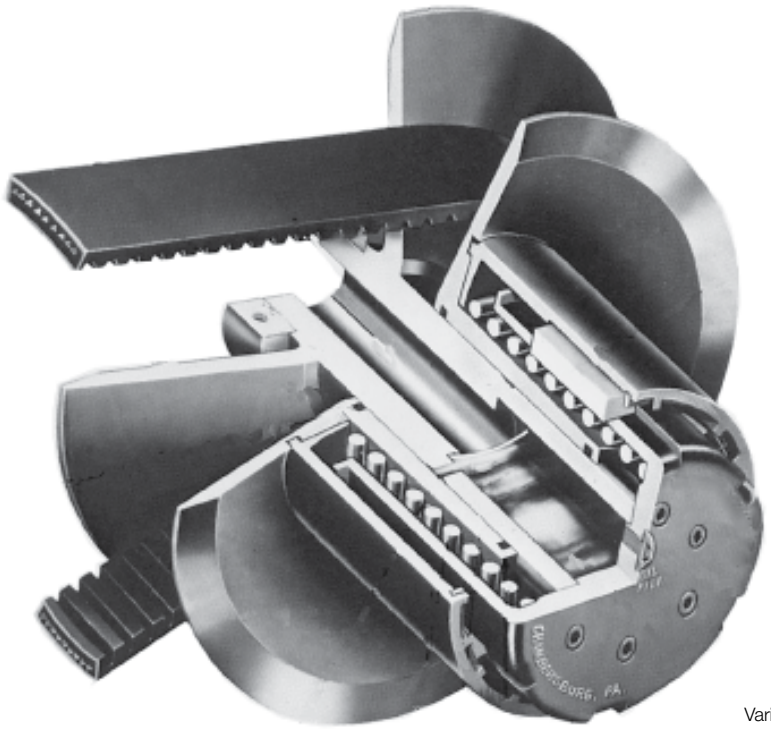
† This companion sheave only recommended for 75 HP @ 1750 RPM & 50 HP @ 1160 RPM.

Refer to table on page D1—53 for additional belts available.

MS Sheave

Features

Wood's MS variable speed drives allow smooth, infinitely variable speed changes without stopping the drive. MS oil lube sheaves employ a revolutionary design that assures continuous, positive lubrication of all moving parts. Single flange moving, they are designed for use with either a flat companion pulley or grooved companion sheave. Capacities from 1/2 to 25 HP @ 1750 RPM. Precision balanced, proven reliability.



MS
Motion Control
Variable Speed Pulley
U.S. Pat. 2.952.161

Wood's exclusive oil lubrication system is shown in this view of a MS sheave. From a built-in reservoir, oil is continually pumped onto the surface of the sleeve, where it spreads to form an oil film that covers the entire bearing surface. The result: no freezing or sticking from fretting corrosion, so speeds can be changed quickly and easily at any time . . . regardless of the time lapse between changes. Maintenance is kept to a minimum and speed-range run through is eliminated.

- **1/2 thru 25 HP @ 1750 RPM**
- **Rugged Cast Iron Construction**
- **Precision Balanced**
- **Revolutionary Oil Lubrication Design**
- **Proven Reliability**

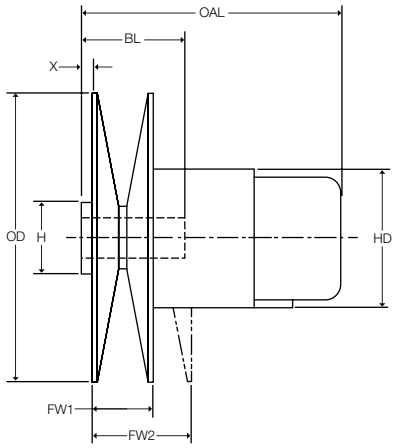
Selection

MODEL		HP RATING @ 3500	HP RATING @ 1750	HP RATING @ 1160	BELT	PITCH DIAMETER MIN.	PITCH DIAMETER MAX.	DRIVE CHART PAGE NO.
GENERAL PURPOSE								
MS-58	**V-F**	3/4 - 1-1/2	1/2 - 3/4	1/3 - 1/2	1422V	2.10	5.75	D1—16
MS-72	**V-F**	1-1/2 - 2	1 - 1-1/2	1/2 - 1	1922V	2.41	7.25	D1—16
MS-77	**V-F**	1-1/2 - 3	1-1/2 - 3	1 - 2	2322V	2.58	7.75	D1—17
MS-77	**V-V ***	-	1-1/2 - 3	1 - 2	2322V	2.58	7.75	D1—17
MS-97	**V-F**	-	5 - 7-1/2	3 - 5	2926V	3.25	9.75	D1—18
MS-97	**V-V ***	-	5 - 10	3 - 5	2926V	3.25	9.75	D1—18
MS-127	**V-F**	-	7-1/2 - 15	5 - 10	4430V	4.25	12.75	D1—19
MS-127	**V-V ***	-	15 - 25	7-1/2 - 15	4430V	4.25	12.75	D1—19
OTHERS								
MS-975-S	**V-V ***	-	15 - 20	7-1/2 - 10	3230HV	4.70	9.40	D1—20
MS-100W	**V-V ***	-	15	7-1/2 - 10	4430V	5.00	10.00	D1—20
• MS-127W-HD	**V-V ***	-	15 - 20	7-1/2 - 10	4430V	4.25	12.75	D1—19

Horsepower ratings are based on constant torque and are shown for maximum pitch diameters.
Horsepower ratings at other pitch diameters reduce in proportion to the driven speed.
* Angled motor base required (ref. page D1—22).
• For heavy duty reversing application.

STOCK BORE SIZES

MODEL	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8	1-7/8	28MM	MAX. BORE
MS-58	X	X	-	-	-	-	-	-	-	-	1-1/8
MS-72	X	X	X	X	-	-	-	-	-	-	1-1/8
MS-77	-	X	X	X	X	-	-	-	-	-	1-1/8
***MS-97**	-	-	-	X	X	X	X	-	-	X	1-3/8
***MS-127**	-	-	-	-	-	-	X	X	X	-	1-7/8
MS-975-S	-	-	-	-	-	-	-	X	-	-	1-7/8
MS-100W	-	-	-	-	-	-	-	X	-	-	1-7/8
***MS-127W-HD**	-	-	-	-	-	-	-	X	-	-	1-7/8



* Clamp hub style.

ORDERING EXAMPLE: MS-58 x 5/8

MS SHEAVE DIMENSIONS

MODEL	O.D.	H	HD	O.A.L.	B.L.	X	F.W.1	F.W.2	WT. LBS.
MS-58	6	1-7/8	3-7/8	5-1/16	2-5/8	5/16	1-1/16	1-13/16	10
MS-72	7-1/2	1-7/8	3-7/8	5-1/4	2-3/4	5/16	1-7/16	2-3/8	12
MS-77	8	2	3-7/8	5-7/16	2-7/8	5/16	1-11/16	2-3/4	13
MS-97	10	4	4-3/4	7-15/16	4-1/8	5/8	2-1/16	3-9/16	28
MS-127	13	4	6	9-3/16	5-1/4	1/2	3	5-1/4	53
MS-975-S	9-3/4	0	6	7-5/16	3-13/16	0	2-1/4	3-1/2	36
MS-100W	10-1/4	0	6	7-15/16	4	–9/16	3	4-5/16	37
MS-127W-HD	13	4	6	9-3/16	5-1/4	1/2	3	5-1/4	58

For optional Sight-Lube lubrication system, refer to D1—23.

Selection Charts

MS-58 V-FLAT OPERATION

DRIVEN SPEEDS			PRODUCT NUMBER	STRAIGHT FACE COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEED								
					VARIABLE SPEED V-BELT NUMBER								
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1422V 330	1422V 360	1422V 420	1422V 480	1422V 540	1422V 600	1422V 660	1422V 720	1422V 780
3135	1567	1039	**62S**	6 x 2-SH	6.9	8.4	11.4	14.4	17.4	20.4	23.4	26.4	29.4
1145	572	379			9.7	11.2	14.3	17.3	20.3	23.3	26.3	29.4	32.4
2712	1356	899	**72S**	7 x 2-SH	-	7.6	10.6	13.6	16.6	19.6	22.6	25.6	28.6
991	495	328			-	10.3	13.4	16.4	19.5	22.5	25.5	28.5	31.5
2390	1195	792	**82S**	8 x 2-SH	-	-	9.7	12.8	15.8	18.8	21.8	24.8	27.8
873	436	289			-	-	12.4	15.5	18.6	21.6	24.7	27.7	30.7
2136	1068	708	**92S**	9 x 2-SH	-	-	8.9	11.9	14.9	17.9	21.0	24.0	27.0
780	390	259			-	-	11.5	14.6	17.7	20.7	23.8	26.8	29.8
1931	966	640	**102S**	10 x 2-SH	-	-	-	11.0	14.1	17.1	20.1	23.1	26.2
705	353	234			-	-	-	13.6	16.8	19.8	22.9	25.9	29.0
1620	810	537	**122S**	12 x 2-SH	-	-	-	-	12.2	15.3	18.4	21.4	24.5
592	296	196			-	-	-	-	14.8	18.0	21.1	24.2	27.2
1396	698	463	**142S**	14 x 2-SDS	-	-	-	-	10.2	13.4	16.6	19.6	22.7
510	255	169			-	-	-	-	12.6	15.9	19.1	22.3	25.4
1226	613	406	**162S**	16 x 2-SDS	-	-	-	-	-	11.3	14.6	17.7	20.9
448	224	148			-	-	-	-	-	13.6	17.0	20.3	23.5

MS-72 V-FLAT OPERATION

DRIVEN SPEEDS			PRODUCT NUMBER	STRAIGHT FACE COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
					VARIABLE SPEED V-BELT NUMBER									
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1922V 363	1922V 403	1922V 426	1922V 454	1922V 484	1922V 544	1922V 604	1922V 666	1922V 726	1922V 756
3893	1947	1290	**62S**	6 x 2-SH	7.3	9.3	10.5	11.9	13.4	16.4	19.4	22.5	25.5	27.0
1298	649	430			10.9	13.0	14.1	15.5	17.1	20.1	23.1	26.2	29.2	30.7
3375	1688	1119	**72S**	7 x 2-SH	-	8.5	9.7	11.1	12.6	15.6	18.6	21.7	24.7	26.2
1125	563	373			-	12.1	13.2	14.7	16.2	19.2	22.2	25.4	28.4	29.9
2979	1489	987	**82S**	8 x 2-SH	-	-	8.9	10.3	11.8	14.8	17.8	20.9	23.9	25.4
993	496	329			-	-	12.3	13.8	15.3	18.3	21.4	24.5	27.5	29.0
2666	1333	884	**92S**	9 x 2-SH	-	-	-	9.5	11.0	14.0	17.0	20.1	23.1	24.6
889	444	295			-	-	-	12.8	14.4	17.5	20.5	23.7	26.7	28.2
2413	1206	800	**102S**	10 x 2-SH	-	-	-	-	10.1	13.1	16.2	19.3	22.3	23.8
804	402	267			-	-	-	-	13.4	16.5	19.6	22.8	25.8	27.3
2027	1014	672	**122S**	12 x 2-SH	-	-	-	-	-	11.4	14.4	17.6	20.6	22.1
676	338	224			-	-	-	-	-	14.6	17.7	20.9	24.0	25.6
1748	874	579	**142S**	14 x 2-SDS	-	-	-	-	-	-	12.6	15.8	18.9	20.3
583	291	193			-	-	-	-	-	-	15.7	19.0	22.2	23.6
1536	768	509	**162S**	16 x 2-SDS	-	-	-	-	-	-	-	13.9	17.0	18.5
512	256	170			-	-	-	-	-	-	-	16.9	20.2	21.8

Refer to table on page D1—52 for additional belts available.

Selection Charts

MS-77 V-FLAT OPERATION

DRIVEN SPEEDS			PRODUCT NUMBER	STRAIGHT FACE COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
					VARIABLE SPEED V-BELT NUMBER									
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			2322V 421	2322V 441	2322V 481	2322V 521	2322V 541	2322V 601	2322V 661	2322V 721	2322V 801	2322V 1001
3145	1572	1042	**8234S**	8 x 2-3/4-SD	8.2	9.3	11.4	13.2	14.4	17.3	20.3	23.4	27.4	37.4
1048	524	347			11.9	13.0	15.1	16.9	18.2	21.2	24.2	27.2	31.2	41.3
2818	1409	934	**9234S**	9 x 2-3/4-SD	-	-	10.6	12.4	13.6	16.6	19.6	22.6	26.6	36.7
939	470	311			-	-	14.3	16.0	17.4	20.4	23.4	26.4	30.4	40.5
2553	1276	846	**10234S**	10 x 2-3/4-SD	-	-	9.7	11.5	12.7	15.7	18.6	21.7	25.6	35.7
851	425	282			-	-	13.3	15.1	16.4	19.5	22.5	25.6	29.5	39.6
2333	1167	773	**11234S**	11 x 2-3/4-SD	-	-	-	10.6	11.8	14.8	17.8	20.9	24.9	35.0
778	389	258			-	-	-	14.2	15.5	18.5	21.6	24.6	28.7	38.8
2148	1074	712	**12234S**	12 x 2-3/4-SD	-	-	-	-	10.9	14.0	17.0	20.1	24.2	34.2
716	358	237			-	-	-	-	14.5	17.5	20.6	23.8	27.8	37.9
1855	927	615	**14234S**	14 x 2-3/4-SF	-	-	-	-	-	12.2	15.3	18.4	22.4	32.5
618	309	205			-	-	-	-	-	15.6	18.9	21.9	26.0	36.2
1631	816	541	**16234S**	16 x 2-3/4-SF	-	-	-	-	-	-	13.5	16.6	20.6	30.8
544	272	180			-	-	-	-	-	-	16.6	19.9	24.0	34.4
1456	728	483	**18234S**	18 x 2-3/4-SF	-	-	-	-	-	-	-	14.5	18.6	29.0
485	243	161			-	-	-	-	-	-	-	17.7	22.1	32.6
1315	658	436	**20234S**	20 x 2-3/4-SF	-	-	-	-	-	-	-	-	16.7	27.2
438	219	145			-	-	-	-	-	-	-	-	19.9	30.7

MS-77 V-V OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	GROOVED COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
				VARIABLE SPEED V-BELT NUMBER									
1750 RPM Motor	1160 RPM Motor			2322V 421	2322V 441	2322V 481	2322V 521	2322V 541	2322V 601	2322V 661	2322V 721	2322V 801	2322V 1001
2055	1362	**661P**	6.6 x 1P-SK	9.7	10.7	12.7	14.7	15.7	18.7	21.7	24.7	28.7	38.7
685	454			13.6	14.6	15.6	18.6	19.6	22.6	25.6	28.6	32.7	42.7
1785	1183	**761P**	7.6 x 1P-SK	8.9	9.9	11.9	13.9	14.9	17.9	20.9	23.9	27.9	37.9
595	394			12.7	13.7	15.7	17.8	18.8	21.8	24.8	27.8	31.8	41.9
1577	1045	**861P**	8.6 x 1P-SK	-	9.1	11.1	13.1	14.1	17.1	20.1	23.1	27.1	37.1
526	348			-	12.8	14.9	16.9	17.9	20.9	24.0	27.0	31.0	41.0
1413	936	**961P**	9.6 x 1P-SK	-	-	10.3	12.3	13.3	16.3	19.3	22.3	26.3	36.3
471	312			-	-	13.9	16.0	17.0	20.1	23.1	26.3	30.2	40.2
1262	836	**1081P**	10.8 x 1P-SK	-	-	-	11.4	12.4	15.4	18.5	21.5	25.5	35.5
420	278			-	-	-	15.0	16.0	19.1	22.2	25.2	29.3	39.4
1154	765	**1181P**	11.8 x 1P-SK	-	-	-	10.5	11.6	14.6	17.6	20.6	24.6	34.7
384	255			-	-	-	14.0	15.0	18.2	21.3	24.3	28.4	38.5
986	654	**1381P**	13.8 x 1P-SK	-	-	-	-	-	12.8	15.9	18.9	23.0	33.0
328	218			-	-	-	-	-	16.2	19.4	22.5	26.6	36.8
861	571	**1581P**	15.8 x 1P-SK	-	-	-	-	-	-	14.0	17.1	21.2	31.3
287	190			-	-	-	-	-	-	17.4	20.6	24.7	35.0
764	506	**1781P**	17.8 x 1P-SK	-	-	-	-	-	-	-	15.2	19.3	29.6
254	169			-	-	-	-	-	-	-	18.5	22.8	33.2

Refer to table on page D1—53 for additional belts available.

Selection Charts

MS-97 V-FLAT OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	STRAIGHT FACE COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				VARIABLE SPEED V-BELT NUMBER							
1750 RPM Motor	1160 RPM Motor			2926V 574	2926V 606	2926V 646	2926V 686	2926V 726	2926V 834	2926V 906	2926V 1006
1595	1057	**10234S**	†10 x 2-3/4-SD	12.5	14.3	16.3	18.4	20.3	25.6	29.4	34.3
532	352			17.2	19.0	21.0	23.0	25.0	30.4	34.2	39.2
1458	967	**11234S**	†11 x 2-3/4-SD	11.3	13.3	15.3	17.4	19.4	24.6	28.4	33.4
486	322			16.3	18.0	20.1	22.2	24.2	29.6	33.3	38.3
1344	841	**12234S**	12 x 2-3/4-SD	-	12.5	14.5	16.6	18.6	23.9	27.6	32.6
448	297			-	17.2	19.2	21.3	23.3	28.8	32.4	37.5
1161	769	**14234S**	14 x 2-3/4-SD	-	-	12.9	14.9	16.9	22.2	26.0	31.0
387	256			-	-	17.3	19.4	21.4	27.0	30.7	35.7
1022	677	**16234S**	16 x 2-3/4-SF	-	-	-	-	15.2	20.6	24.3	29.4
341	226			-	-	-	-	19.4	25.0	28.9	34.0
912	605	**18234S**	18 x 2-3/4-SF	-	-	-	-	-	18.8	22.7	27.7
304	202			-	-	-	-	-	23.2	27.0	32.0
824	546	**20234S**	20 x 2-3/4-SF	-	-	-	-	-	16.7	20.7	25.7
275	182			-	-	-	-	-	20.9	24.9	30.2
691	458	**24414S**	24 x 4-1/4-SF	-	-	-	-	-	-	-	22.1
230	153			-	-	-	-	-	-	-	26.2

† This companion pulley not recommended for 7-1/2 HP at 1750 RPM or 5 HP at 1160 RPM applications.

MS-97 V-V OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	GROOVED COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				VARIABLE SPEED V-BELT NUMBER							
1750 RPM Motor	1160 RPM Motor			2926V 574	2926V 606	2926V 646	2926V 686	2926V 726	2926V 834	2926V 906	2926V 1006
2245	1488	**761T**	7.6 x 1T-SK	15.03	16.63	18.63	20.66	22.66	28.07	31.67	36.67
748	496			20.07	21.68	23.68	25.68	27.68	33.12	36.73	41.73
1984	1315	**861T**	8.6 x 1T-SK	14.29	15.89	17.89	19.89	21.89	27.29	30.89	35.89
661	438			19.20	20.83	22.85	24.85	26.85	32.29	35.90	40.90
1777	1178	**961T**	9.6 x 1T-SK	13.51	15.11	17.11	19.11	21.11	26.51	30.11	35.11
592	392			18.34	19.96	21.96	24.01	26.01	31.46	35.06	40.09
1609	1067	**1061T**	10.6 x 1T-SK	12.72	14.32	16.32	18.32	20.32	25.72	29.32	34.32
536	355			17.43	19.08	21.11	23.13	25.17	30.61	34.23	39.26
1470	975	**1161T**	11.6 x 1T-SK	11.89	13.49	15.49	17.52	19.52	24.93	28.53	33.53
490	325			16.49	18.14	20.19	22.24	24.29	29.74	33.39	38.42
1254	831	**1361T**	13.6 x 1T-SK	-	-	13.82	15.86	17.87	23.27	26.91	31.92
418	277			-	-	18.32	20.42	22.47	27.97	31.65	36.71
1094	725	**1561T**	15.6 x 1T-SK	-	-	-	14.10	16.14	21.60	25.24	30.25
364	242			-	-	-	18.45	20.55	26.15	29.85	34.95
969	642	**1761T**	17.6 X 1T-SK	-	-	-	-	-	19.83	23.48	28.56
323	214			-	-	-	-	-	24.27	28.01	33.13
870	577	**1961T**	19.6 x 1T-SK	-	-	-	-	-	17.96	21.70	26.81
290	192			-	-	-	-	-	22.25	26.06	31.29

Refer to table on page D1—53 for additional belts available.

MS-127 V-FLAT OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	STRAIGHT FACE COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS													
				VARIABLE SPEED V-BELT NUMBER													
1750 RPM Motor	1160 RPM Motor			4430V 690	4430V 700	4430V 730	4430V 740	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1030	4430V 1090	4430V 1150	4430V 1320	4430V 1460	4430V 1610
1728	1145	**12414S**	†12 x 4-1/4-SF	14.3	14.7	16.3	16.8	19.2	22.3	25.3	28.4	31.4	34.2	37.4	45.7	52.3	60.6
576	382			20.6	21.2	22.7	23.2	25.7	28.8	31.7	34.8	37.8	40.8	43.9	52.4	58.8	67.3
1496	992	**14414S**	†14 x 4-1/4-SF	-	-	14.9	15.4	17.8	20.7	23.8	26.9	29.8	32.8	35.7	44.5	50.7	59.2
499	331			-	-	20.9	21.4	23.9	27.0	30.0	33.2	36.0	39.2	42.2	50.8	57.0	65.5
1319	875	**16414S**	†16 x 4-1/4-SF	-	-	-	-	16.2	19.2	22.2	25.4	28.4	31.2	34.1	42.8	49.2	57.9
440	292			-	-	-	-	22.0	25.1	28.3	31.3	34.4	37.4	40.4	49.1	55.3	63.9
1180	782	**18414S**	18 x 4-1/4-SF	-	-	-	-	-	17.2	20.3	23.3	26.5	29.3	32.4	41.0	47.3	56.0
393	261			-	-	-	-	-	23.1	26.3	29.4	32.5	35.6	38.6	47.2	53.6	61.9
1067	707	**20414S**	20 x 4-1/4-SF	-	-	-	-	-	-	18.6	21.7	24.8	27.7	30.6	39.4	45.7	54.3
356	236			-	-	-	-	-	-	24.7	27.7	30.8	33.6	36.9	45.5	51.8	60.5
896	594	**24414S**	24 x 4-1/4-SF	-	-	-	-	-	-	-	-	21.4	24.2	27.3	36.0	42.4	51.1
299	198			-	-	-	-	-	-	-	-	26.4	29.7	33.0	41.8	48.1	56.8

† This companion pulley not recommended for 15 HP at 1750 RPM or 10 HP at 1160 RPM applications.

MS-127 & MS-127W-HD V-V OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	GROOVED COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS													
				VARIABLE SPEED V-BELT NUMBER													
1750 RPM Motor	1160 RPM Motor			4430V 690	4430V 700	4430V 730	4430V 740	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1030	4430V 1090	4430V 1150	4430V 1320	4430V 1460	4430V 1610
2231	1479	**1001W**	10.0 x 1W-SF	16.5	17.0	18.5	19.0	21.5	24.5	27.5	30.5	33.5	36.5	39.5	48.0	55.3	62.7
744	493			23.0	23.5	25.0	25.5	28.0	31.0	34.1	37.1	40.1	43.1	46.1	54.6	61.8	69.2
2028	1344	**1101W**	11.0 x 1W-SF	15.7	16.2	17.7	18.2	20.7	23.7	26.7	29.7	32.7	35.7	38.7	47.2	54.6	62.0
676	448			22.1	22.6	24.1	24.7	27.2	30.2	33.2	36.2	39.2	42.3	45.3	53.8	60.9	68.4
1859	1233	**1201W**	12.0 x 1W-SF	14.9	15.4	16.9	17.4	19.9	22.9	25.9	28.4	31.9	34.9	37.9	46.4	53.7	61.2
620	411			20.9	21.4	22.9	23.4	25.9	30.0	32.0	35.0	38.0	41.1	44.1	52.6	60.2	67.8
1716	1138	**1301W**	13.0 x 1W-SF	14.2	14.7	16.1	16.7	19.1	22.1	25.2	28.2	31.1	34.2	37.2	45.7	53.0	60.5
572	379			20.4	20.9	22.4	22.9	25.4	28.5	31.5	34.6	37.6	40.6	43.6	52.1	59.3	66.8
1594	1056	**1401W**	14.0 x 1W-SF	-	-	15.3	15.9	18.3	21.3	24.4	27.4	30.4	33.4	36.4	44.9	52.0	59.6
531	352			-	-	21.5	22.0	24.5	27.6	30.7	33.7	36.7	39.7	42.8	51.3	58.5	66.0
1488	986	**1501W**	15.0 x 1W-SF	-	-	-	15.0	17.5	20.5	23.6	26.6	29.6	32.6	35.6	44.1	51.3	58.8
496	329			-	-	-	21.1	23.6	26.7	29.8	32.8	35.8	38.9	41.9	50.5	57.5	65.0
1394	924	**1601W**	16.0 x 1W-SF	-	-	-	-	16.7	19.7	22.7	25.8	28.7	31.8	34.8	43.3	50.8	58.0
465	308			-	-	-	-	22.7	25.8	28.9	31.9	35.0	38.0	41.1	49.6	56.8	64.4
1240	822	**1801W**	18.0 x 1W-SF	-	-	-	-	-	18.0	21.1	24.1	27.1	30.1	33.1	41.6	48.9	56.5
413	274			-	-	-	-	-	23.9	27.0	30.1	33.2	36.3	39.3	47.9	54.9	62.5
1116	740	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	19.3	22.4	25.4	28.4	31.5	40.0	47.5	54.9
372	247			-	-	-	-	-	-	25.1	28.2	31.3	34.4	37.5	46.2	53.4	60.9
1014	672	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	20.6	23.6	26.7	29.7	38.3	45.5	53.0
338	224			-	-	-	-	-	-	-	26.3	29.4	32.6	35.7	44.4	51.5	59.2
930	616	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	21.8	24.9	28.0	36.6	43.7	51.2
310	205			-	-	-	-	-	-	-	-	27.4	30.6	33.7	42.5	49.8	57.3
796	528	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	-	-	-	-	24.3	33.2	40.3	47.9
265	176			-	-	-	-	-	-	-	-	-	-	29.8	38.9	46.2	53.9

Refer to table on page D1—53 for additional belts available.

Selection Charts

MS-975-S V-V OPERATION

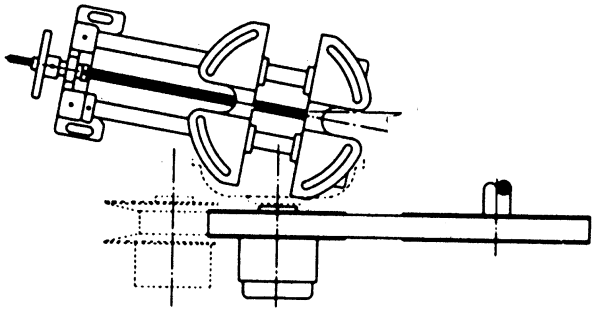
DRIVEN SPEEDS		PRODUCT NUMBER	GROOVED COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS																
				VARIABLE SPEED V-BELT NUMBER																
1750 RPM Motor	1160 RPM Motor			3230 HV 528	3230 HV 546	3230 HV 553	3230 HV 570	3230 HV 585	3230 HV 603	3230 HV 613	3230 HV 626	3230 HV 644	3230 HV 670	3230 HV 685	3230 HV 723	3230 HV 821	3230 HV 856	3230 HV 931	3230 HV 960	3230 HV 1060
1731	1147	**951S**	9.5 x 1S-SF	11.6	12.5	12.8	13.7	14.4	15.3	15.8	16.5	17.4	18.7	19.4	21.3	26.2	28.0	31.7	33.2	38.2
866	574			15.1	16.0	16.3	17.2	17.9	18.8	19.3	20.0	20.9	22.2	23.0	24.9	29.8	31.6	35.3	36.8	41.8
1645	1090	**1001S**	10.0 x 1S-SF	11.2	12.1	12.4	13.3	14.0	14.9	15.4	16.1	17.0	18.3	19.0	20.9	25.8	27.6	31.3	32.8	37.8
823	546			14.6	15.5	15.9	16.7	17.5	18.4	18.9	19.6	20.5	21.8	22.5	24.5	29.4	31.1	34.9	36.4	41.4
1495	991	**1101S**	11.0 x 1S-SF	-	11.3	11.6	12.5	13.2	14.1	14.6	15.3	16.2	17.5	18.2	20.1	25.0	26.8	30.5	32.0	37.0
748	496			-	14.6	15.0	15.9	16.6	17.5	18.0	18.7	19.6	20.9	21.7	23.6	28.5	30.3	34.1	35.5	40.1
1370	908	**1201S**	12.0 x 1S-SF	-	-	-	11.6	12.4	13.3	13.8	14.4	15.4	16.6	17.4	19.3	24.2	26.0	29.7	31.2	36.2
686	455			-	-	-	14.9	15.7	16.6	17.1	17.8	18.7	20.1	28.0	22.7	27.7	29.5	33.2	34.7	39.7
1265	838	**1301S**	13.0 x 1S-SF	-	-	-	-	-	12.4	12.9	13.6	14.5	15.8	16.6	18.5	23.4	25.1	28.9	30.4	35.4
633	420			-	-	-	-	-	15.7	16.2	16.9	17.8	19.1	19.9	21.9	26.8	28.6	32.4	33.8	38.9
1175	778	**1401S**	14.0 x 1S-SF	-	-	-	-	-	-	12.1	12.7	13.6	14.9	15.7	17.6	22.6	24.3	28.1	29.5	34.5
588	390			-	-	-	-	-	-	15.3	15.9	16.9	18.2	19.0	20.9	25.9	27.7	31.5	33.0	38.0
1096	726	**1501S**	15.0 x 1S-SF	-	-	-	-	-	-	-	-	12.7	14.1	14.8	16.8	21.7	23.5	27.2	28.7	33.7
549	364			-	-	-	-	-	-	-	-	15.9	17.3	18.0	20.0	25.0	26.8	30.6	32.1	37.2
1028	682	**1601S**	16.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	13.9	15.9	20.8	22.6	26.4	27.9	32.9
514	341			-	-	-	-	-	-	-	-	-	-	17.1	19.1	24.1	25.9	29.8	31.2	36.3
914	606	**1801S**	18.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	-	13.9	19.0	20.8	24.7	26.1	31.2
457	303			-	-	-	-	-	-	-	-	-	-	-	17.0	22.2	24.0	27.9	29.4	34.5
822	546	**2001S**	20.0 x 1S-SF	-	-	-	-	-	-	-	-	-	-	-	. ..	17.1	19.0	22.8	24.3	29.4
411	273			-	-	-	-	-	-	-	-	-	-	-	. ..	20.2	22.0	26.0	27.5	32.7

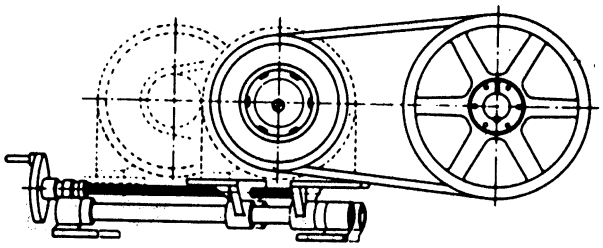
MS100W V-V OPERATION

DRIVEN SPEEDS		PRODUCT NUMBER	GROOVED COMPANION PULLEY	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS																
				VARIABLE SPEED V-BELT NUMBER																
1750 RPM Motor	1160 RPM Motor			4430V 530	4430V 555	4430V 578	4430V 610	4430V 630	4430V 660	4430V 690	4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320	4430V 1610		
2188	1450	**801W**	8.0 x 1W-SF	12.1	13.5	14.7	16.2	17.2	18.7	20.2	22.2	25.2	28.2	31.2	34.2	40.2	51.7	66.8		
1094	725			16.0	17.4	18.6	20.1	21.1	22.6	24.1	26.1	29.1	32.1	35.1	38.1	44.1	55.6	70.7		
2059	1365	**851W**	8.5 x 1W-SF	11.7	13.1	14.3	15.8	16.8	18.3	19.8	21.8	24.8	27.8	30.8	33.8	39.8	51.3	66.5		
1029	682			15.6	16.9	18.2	19.7	20.7	22.2	23.7	25.7	28.7	31.7	34.7	37.7	43.7	55.2	70.3		
1944	1289	**901W**	9.0 x 1W-SF	11.3	12.7	13.9	15.4	16.4	17.9	19.4	21.4	24.4	27.4	30.4	33.5	39.5	51.0	66.1		
972	644			15.1	16.5	17.8	19.3	20.3	21.8	23.3	25.3	28.3	31.3	34.3	37.3	43.3	54.8	69.9		
1842	1221	**951W**	9.5 x 1W-SF	11.0	12.3	13.6	15.1	16.1	17.6	19.1	21.0	24.0	27.0	30.1	33.1	39.1	50.6	65.6		
921	611			14.7	16.1	17.3	18.9	19.9	21.4	22.9	24.9	27.9	30.9	33.9	36.9	42.9	54.4	69.5		
1750	1160	**1001W**	10.0 x 1W-SF	10.6	11.9	13.2	14.7	15.7	17.2	18.7	20.7	23.7	26.7	29.7	32.7	38.7	50.2	65.2		
875	580			14.3	15.6	16.9	18.4	19.4	20.9	22.5	24.5	27.5	30.5	33.5	36.5	42.5	54.0	69.0		
1591	1054	**1101W**	11.0 x 1W-SF	-	11.0	12.4	13.9	14.9	16.4	17.9	19.9	22.9	25.9	28.9	31.9	37.9	49.4	64.2		
795	527			-	14.7	16.0	17.6	18.6	20.1	21.6	23.6	26.6	29.7	32.7	35.7	41.7	53.2	68.2		
1458	967	**1201W**	12.0 x 1W-SF	-	-	11.6	13.1	14.1	15.6	17.1	19.1	22.1	25.1	28.1	31.1	37.1	48.6	63.5		
729	483			-	-	15.1	16.7	17.7	19.2	20.7	22.7	25.8	28.8	31.8	34.8	40.9	52.4	67.4		
1346	892	**1301W**	13.0 x 1W-SF	-	-	-	12.4	13.2	14.7	16.2	18.2	21.2	24.3	27.3	30.3	36.3	47.8	62.7		
673	446			-	-	-	15.9	16.8	18.3	19.8	21.9	24.9	28.0	31.0	34.0	40.0	51.6	66.6		
1250	828	**1401W**	14.0 x 1W-SF	-	-	-	-	12.5	13.9	15.4	17.4	20.4	23.4	26.5	29.5	35.5	47.0	62.1		
625	414			-	-	-	-	16.0	17.3	18.9	21.0	24.0	27.1	30.1	33.2	39.2	50.8	65.8		
1167	773	**1501W**	15.0 x 1W-SF	-	-	-	-	-	13.2	14.5	16.5	19.6	22.6	25.6	28.6	34.7	46.2	61.3		
583	387			-	-	-	-	-	16.5	18.0	20.0	23.1	26.2	29.2	32.3	38.3	49.9	65.0		
1094	725	**1601W**	16.0 x 1W-SF	-	-	-	-	-	-	13.8	15.7	18.7	21.7	24.8	27.8	33.8	45.4	60.5		
547	363			-	-	-	-	-	-	17.1	19.1	22.2	25.3	28.3	31.4	37.5	49.1	64.0		
972	644	**1801W**	18.0 x 1W-SF	-	-	-	-	-	-	-	-	16.9	20.0	23.0	26.1	32.1	48.7	58.9		
486	322			-	-	-	-	-	-	-	-	19.2	24.4	26.5	29.6	35.7	47.4	62.4		
875	580	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	-	-	-	18.1	21.2	24.3	30.4	42.0	57.1		
438	290			-	-	-	-	-	-	-	-	-	21.4	24.6	27.7	33.9	45.6	60.8		
795	527	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	-	-	17.2	19.3	22.4	28.6	40.3	55.5		
398	264			-	-	-	-	-	-	-	-	-	19.3	22.6	25.8	32.0	43.9	59.0		
729	483	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	-	20.5	26.8	38.5	53.7		
365	242			-	-	-	-	-	-	-	. ..	-	-	-	23.7	30.1	42.0	57.4		
625	414	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	-	-	-	-	-	. ..	22.9	35.0	49.9		
312	207			-	-	-	-	-	. ..	-	-	-	-	. ..	. ..	26.1	38.4	53.4		

Refer to table on page D1—53 for additional belts available.

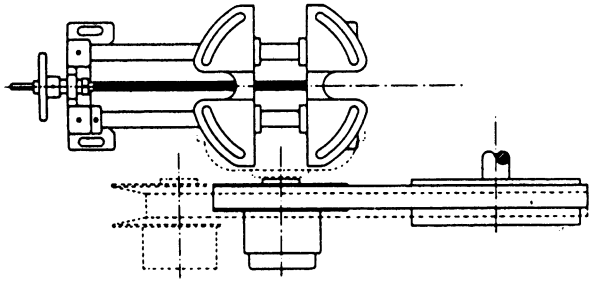
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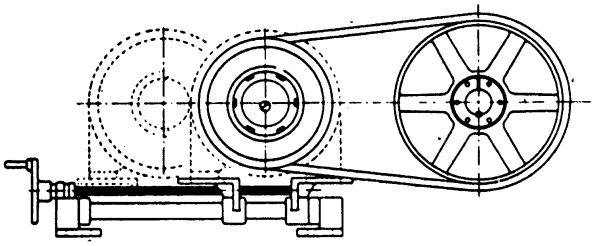




V-V Drive Set-up

On a v-groove to v-groove drive using a single flange moving sheave, it is necessary to angle mount the motor in order to keep the belt aligned. This is due to the fact that the belt is not only moving from max. to min. pitch it is also moving axially as it is being adjusted. The angle mount base compensates for this axial movement of the belt.





V-Flat Drive Set-up

On a v-groove to flat pulley drive using a single flange moving sheave, the movement of the base is perfectly perpendicular to the shafts. As the belt moves from max. to min. pitch on the variable it is also moving axially across the face of the flat pulley. In most cases the drive hp capacity is less on a v-flat than a v-v drive using the same spring-loaded sheave.

Angled Motor Case

Calculations

Because of the unique lubricating principle employed in the Wood's MS sheaves, they are constructed so that only a single flange is adjustable. When a straight face pulley is used as a companion, the belt will traverse across the face of the pulley as the pitch diameter of the MS is changed. However, in order to maintain correct belt alignment when running the MS sheave to a V-groove companion, the motor must be mounted on an angled base to compensate for the belt movement.

When an MC base is furnished, the motor mount holes are drilled in the sliding plate at the angle required by each specific application. When using an MBA motor base, slots are provided for offsetting the motor to any angle.

Angle to Offset Motor Base

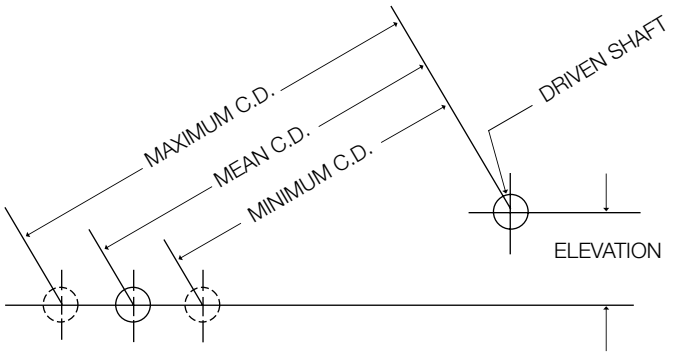
To Find Offset Angle:

1. Determine mean center distance.

$$\text{Mean C.D.} = \frac{\text{Max.} + \text{Min.}}{2}$$

2. Find difference in center line elevation.
3. Using appropriate table below with required elevation, read across until mean center is located; then read at bottom of table the offset angle. Interpolate for elevations or center distances not shown.

   Example: Sheave MS-100-W
   C.D. Min. 18.0, Max. 22.0
   Elevation 7"
   Offset Angle – 9-1/2°



MS-77

Elevation – inches	Mean Center Distance – inches							
3								9*
4	Offset angle 7-1/2° for less than						9	12*
5	3" elevation; all center					9	10	15*
6	distances.				9	10	12	18*
7			9	10	11	12	15	21*
8	9	10	10	11	12	14	17	24*
10	12	12	13	14	15	17	21	29*
12	14	14	15	16	18	21	25	35*
14	16	17	18	19	21	24	29	41*
16	18	19	20	22	24	27	33	47*
Offset Angle	4°	4-1/2°	5°	5-1/2°	6°	6-1/2°	7°	7-1/2°

MS-97

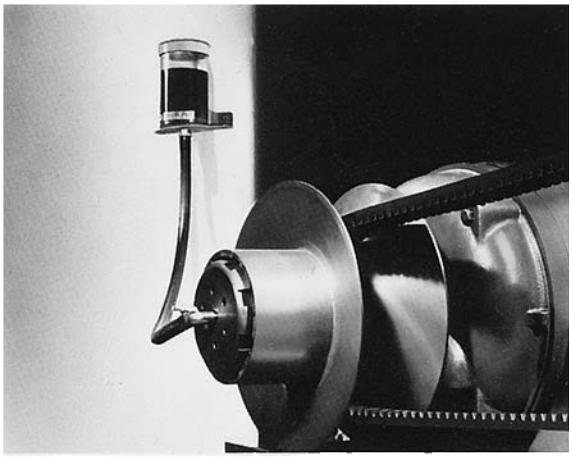
Elevation – inches	Mean Center Distance – inches							
3								10*
4	Offset angle 9° for less than							13*
5	3" elevation; all center						11	16*
6	distances.					11	13	19*
7					11	13	16	22*
8			11	12	13	15	18	25*
10	12	13	14	15	16	18	22	32*
12	15	15	16	18	20	22	27	38*
14	17	18	19	21	23	26	31	44*
16	20	21	22	24	26	30	36	50*
Offset Angle	5-1/2°	6°	6-1/2°	7°	7-1/2°	8°	8-1/2°	9°

MS-100W MS-127 MS-975-S

Elevation – inches	Mean Center Distance – inches										
3										11*	19*
4	Offset angle 10° for less than								12	15*	23*
5	3" elevation; all center							11	14	19*	29*
6	distances.						11	13	17	22*	35*
7						11	13	15	20	26*	41*
8					11	12	13	15	17	23	30*	47*
10	12	12	13	14	15	16	18	21	28	37*	58*
12	14	15	16	17	18	19	22	26	34	44*	
14	17	17	18	19	21	23	25	30	40	50*	
16	19	20	21	22	24	26	29	34	46	57*	
Offset Angle	5-1/2°	6°	6-1/2°	7°	7-1/2°	8°	8-1/2°	9°	9-1/2°	9-3/4°	10°

* Mean center distances and larger.

Lubrication System



The Sight-Lube lubrication system is available for Wood's MS and MCS motion control variable speed sheaves.

This system permits split-second checking of the oil level in the sheave's reservoir. The sight gauge can be mounted at any convenient location above the drive.

The advantages that the Sight-Lube lubrication offers combined with the unique features of Wood's exclusive motion control sheave oil lubrication system provide outstanding user benefits. While lubrication checks are required only infrequently with Wood's motion control variable speed drives, downtime for such routine maintenance is nonexistent.



Reservoir Kit

The ADAPTER KIT, shown at right, consisting of the sheave adapter, gasket and three cap screws is available to fit most existing Wood's oil lubricated variable speed sheaves, and can also be supplied for new units.

The RESERVOIR KIT, at left, is included with all Sight-Lube systems unless specified otherwise. The reservoir is of clear polycarbonate plastic permanently attached to a durable plastic bracket with holes for mounting to any vertical or horizontal surface. This kit also includes a 36-inch section of hose with the necessary clamps for connecting to the rotating joint on the sheave.



Sheave Adapter Kit

How to Order the Sight-Lube Lubrication System

Sight-Lube Kits for installation on existing Wood's motion control variable speed sheaves are available as listed in chart below. Determine the part number of the sheave and from the chart select the proper Sight-Lube Kit number. Example: If the Sight-Lube System is required for an existing MS-97 sheave, order one SL2K Adapter Kit and one SR2K Reservoir Kit.

Kits Available

For Use With Variable Sheave No.	Adapter Kit Kit No.	Reservoir Kit Kit No.
MS-97	SL2K	SR2K
MS-127, MS-100W, MS-975-S	SL3K	SR2K
MCS-All sizes except 14Y & 15Y	SL3K	SR2K
MCS 14Y & 15Y	SL4K	SR2K

Roto-Cone®

Features

Roto-Cone® variable speed sheaves and drives allow smooth, infinitely-variable speed changes without stopping the drive motor. Positive rack and pinion design provides equal and opposite lateral movement of both discs, so belts always travel on a fixed center line. Ratings to 30 HP at 1750 RPM. Needs only periodic lubrication. Positive pulling power, precision balanced, proven reliability.



Features

- **V to V Operating Principle**
  The exclusive rack and gear arrangement incorporated into the design of the ROTO-CONE® Motor Sheave imparts a positive and equal linear movement to each pulley disc. The movement of one disc is opposite to that of the other, thereby causing the belt to travel on a fixed center line. This fixed center line allows driving to a "V" groove companion sheave which need be only slightly wider than the belt. The "V" to "V" principle makes for more efficient power transmission, straight line adjustment of the motor and sheave, longer belt life, vibrationless drive, and eliminates twisting and curling of the belt when changing speeds.
- **Lubrication**
  Close-Grooving grease groove in the bore of the inner disc distributes grease throughout the entire hub length. Sheaves, from RC80 through RC1330 have additional grease fittings and passages to assure thorough lubrication throughout the pulley length. These features combine to practically eliminate fretting corrosion and sticking discs.
- **Bores**
  To ensure a true shaft mounting, all ROTO-CONE® Sheave shafts are precision bored with overall tolerances of .0005."

- **1/2 thru 30 HP**
- **V-to-V Drive**
- **Operates in Vertical or Horizontal Position**
- **Exclusive Rack and Pinion Design**
- **Proven Reliability**
- **Conventional and Compound Drives**
- **Rugged Cast Iron Construction**

Selection

MODEL	HP RATING @			BELT	PITCH DIA.		DRIVE CHART PAGE NO.
	3500	1750	1160		MIN.	MAX.	
RC55	1	1/2	1/3	1422V	1.75	5.25	D1—26
RC60	1-1/2	3/4	1/2	1922V	1.92	5.75	D1—26
RC75	-	1 - 1-1/2	7/8 - 1	1922V	2.42	7.25	D1—27
RC80	-	1-1/2 - 3	1 - 2	2322V	2.58	7.75	D1—27
RC105	-	1-1/2 - 3	1 - 2	2926V	2.58	10.38	D1—28
RC100	-	3 - 5	1-1/2 - 3	2926V	3.25	9.75	D1—28
RC1315	-	7-1/2 -15	5 - 10	4430V	4.25	12.75	D1—29
RC1330	-	15-30	10 - 20	4430V	4.63	12.75	D1—29

Horsepower ratings are based on constant torque and are shown for maximum pitch diameter.
Horsepower ratings at other pitch diameters reduce in proportion to the driven speed.

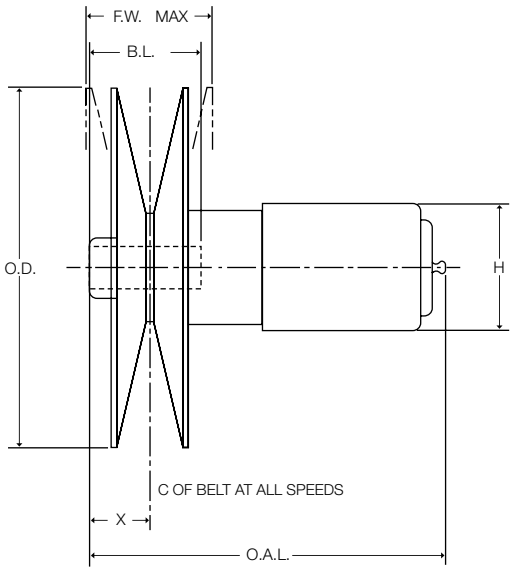
STOCK BORE SIZES AND BORE LENGTHS (BL)

MODEL	BORE SIZE IN INCHES										MAX. BORE
	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8	1-7/8	
	BORE LENGTH IN INCHES										
RC55	1-3/4 *	1-3/4	-	-	-	-	-	-	-	-	5/8
RC60	-	1-7/8	1-7/8	-	-	-	-	-	-	-	3/4
RC75	-	1-7/8	2-1/4	2-5/16	-	-	-	-	-	-	7/8
RC80	-	-	2-1/4	2-5/8	3	3-3/8	-	-	-	-	1-1/8
RC105	-	-	2-1/4	2-5/8	3	3-3/8	-	-	-	-	1-1/8
RC100	-	-	-	-	3	3-3/8	3-3/4	-	-	-	1-1/4
RC1315	-	-	-	-	-	3-3/8	3-3/4	4-1/8	4-7/8	-	1-15/16
RC1330	-	-	-	-	-	-	3-3/4	4-1/8	4-7/8	5-3/8	1-15/16

* No keyseat.
ORDERING EXAMPLE: RC60 x 5/8

ROTO-CONE SHEAVE DIMENSIONS

MODEL	O.D.	H	O.A.L.	X	F.W. MAX	WT. LBS.
RC55	5-1/2	2-1/8	5-1/8	1	1-13/16	6
RC60	6	2-1/8	6-1/16	15/16	2-1/4	7
RC75	7-1/2	2-1/2	7-1/2	1-1/4	2-5/8	13.5
RC80	8	3	8-1/2	1-7/16	2-3/4	17
RC105	10-5/8	3	8-1/2	1-13/16	3-1/4	24
RC100	10	3-7/8	10-13/16	2-1/16	3-7/8	34
RC1315	13	5	12-7/8	2-1/4	5-3/8	59
RC1330	13	6-1/4	12-3/8	2-1/2	5-5/8	70



Selection Charts

RC55 (1422V BELT)

DRIVEN SPEEDS			PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
					BELT PART NUMBER							
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1422V 360	1422V 420	1422V 480	1422V 540	1422V 600	1422V 660	1422V 720	1422V 780
3500	1750	1160	**531M**	5.3 x 1M-SH	9.75	12.75	15.75	18.75	21.75	24.75	27.75	30.75
1166	583	387			12.37	15.39	18.41	21.42	24.43	27.44	30.45	33.45
3196	1598	1159	**581M**	5.8 x 1M-SH	9.36	12.36	15.36	18.36	21.36	24.36	27.36	30.36
1066	533	353			11.93	14.96	17.99	21.01	24.02	27.03	30.04	33.04
2722	1361	902	**681M**	6.8 x 1M-SH	8.54	11.55	14.55	17.56	20.56	23.56	26.56	29.56
908	454	301			11.02	14.09	17.13	20.16	23.18	26.19	29.21	32.22
2370	1185	785	**781M**	7.8 x 1M-SH	7.68	10.71	13.73	16.74	19.75	22.75	25.76	28.76
790	395	262			10.07	13.18	16.24	19.29	22.32	25.35	28.37	31.38
2100	1050	696	**881M**	8.8 x 1M-SH	-	9.84	12.87	15.90	18.92	21.93	24.94	27.94
700	350	232			-	12.23	15.33	18.40	21.45	24.48	27.51	30.54
1884	942	625	**981M**	*9.8 x 1M-SH	-	8.92	11.99	15.40	18.07	21.09	24.10	27.12
628	314	208			-	11.24	14.38	17.48	20.55	23.60	26.64	29.68
1710	855	567	**1081M**	*10.8 x 1M-SH	-	-	11.07	14.15	17.20	20.23	23.26	26.28
570	285	189			-	-	13.40	16.54	19.63	22.71	25.76	28.80
1564	782	518	**1181M**	*11.8 x 1M-SH	-	-	10.11	13.22	16.30	19.35	22.39	25.42
522	261	172			-	-	12.38	15.56	18.69	21.79	24.86	27.92
1376	668	442	**1381M**	*13.8 x 1M-SDS	-	-	-	11.26	14.42	17.53	20.61	23.67
446	223	148			-	-	-	13.50	16.72	19.88	23.00	26.09

*Consult factory for availability.

RC60 (1922V BELT)

DRIVEN SPEEDS			PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
					BELT PART NUMBER									
3500 RPM Motor	1750 RPM Motor	1160 RPM Motor			1922V 363	1922V 403	1922V 426	1922V 454	1922V 484	1922V 544	1922V 604	1922V 666	1922V 726	1922V 756
3594	1797	1191	**561N**	5.6 x 1N-SK	9.23	11.23	12.38	13.78	15.28	18.28	21.28	24.38	27.38	28.88
1200	600	398			12.09	14.11	15.27	16.68	18.19	21.21	24.22	27.33	30.33	31.84
3050	1525	1011	**661N**	6.6 x 1N-SK	8.44	10.44	11.59	12.99	14.49	17.49	20.49	23.59	26.60	28.10
1018	509	337			11.20	13.24	14.40	15.82	17.34	20.36	23.38	26.50	29.51	31.01
2648	1324	878	**761N**	7.6 x 1N-SK	-	9.62	10.77	12.18	13.68	16.69	19.69	22.79	25.80	27.30
884	442	293			-	12.33	13.50	14.93	16.46	19.50	22.53	25.65	28.67	30.18
2340	1170	776	**861N**	8.6 x 1N-SK	-	8.75	9.92	11.33	12.84	15.86	18.87	21.98	24.98	26.49
782	391	259			-	11.38	12.57	14.02	15.56	18.62	21.66	24.79	27.82	29.33
2096	1048	695	**961N**	9.6 x 1N-SK	-	-	9.02	10.45	11.98	15.01	18.03	21.15	24.16	25.66
760	350	232			-	-	11.60	13.06	14.62	17.71	20.77	23.92	26.96	28.47
1898	949	629	**1061N**	10.6 x 1N-SK	-	-	-	9.53	11.07	14.13	17.17	20.30	23.32	24.83
634	317	210			-	-	-	12.07	13.65	16.77	19.86	23.03	26.08	27.60
1734	867	575	**1161N**	11.6 x 1N-SK	-	-	-	-	10.13	13.23	16.29	19.43	22.47	23.98
580	290	192			-	-	-	-	12.64	15.81	18.93	22.12	25.18	26.71
1480	740	490	**1361N**	13.6 x 1N-SK	-	-	-	-	-	11.30	14.44	17.64	20.70	22.23
494	247	164			-	-	-	-	-	13.77	16.98	20.23	23.34	24.88
1290	645	428	**1561N**	15.6 x 1N-SK	-	-	-	-	-	-	12.45	15.73	18.85	20.40
430	215	143			-	-	-	-	-	-	14.89	18.23	21.41	22.98
1194	572	379	**1761N**	17.6 x 1N-SK	-	-	-	-	-	-	-	13.68	16.89	18.48
382	191	127			-	-	-	-	-	-	-	16.10	19.37	20.98

Refer to table on page D1—52 for additional belts available.

Selection Charts

RC75 (1922V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
				BELT PART NUMBER									
1750 RPM Motor	1160 RPM Motor			1922V 363	1922V 403	1922V 426	1922V 454	1922V 484	1922V 544	1922V 604	1922V 666	1922V 726	1922V 756
2266	1502	**561N**	5.6 x 1N-SK	8.01	10.02	11.17	12.58	14.08	17.08	20.09	23.19	26.19	27.69
756	501			11.73	13.75	14.91	16.32	17.82	20.83	23.84	26.95	29.95	31.46
1922	1274	**661N**	6.6 x 1N-SK	-	9.26	10.42	11.82	13.32	16.32	19.32	22.42	25.42	26.92
642	425			-	12.88	14.05	15.46	16.98	20.00	23.01	26.12	29.13	30.64
1669	1107	**761N**	7.6 x 1N-SK	-	-	9.63	11.03	12.53	15.53	18.53	21.63	24.63	26.13
557	369			-	-	13.16	14.58	16.11	19.14	22.17	25.29	28.30	29.81
1475	978	**861N**	8.6 x 1N-SK	-	-	-	10.23	11.73	14.73	17.74	20.84	23.84	25.34
492	326			-	-	-	13.67	15.21	18.26	21.30	24.43	27.46	28.97
1322	876	**961N**	9.6 x 1N-SK	-	-	-	-	10.90	13.91	16.92	20.03	23.03	24.53
441	292			-	-	-	-	14.28	17.36	20.42	23.56	26.60	28.11
1197	793	**1061N**	10.6 x 1N-SK	-	-	-	-	-	13.06	16.08	19.20	22.21	23.71
400	265			-	-	-	-	-	16.44	19.52	22.68	25.72	27.24
1094	725	**1161N**	11.6 x 1N-SK	-	-	-	-	-	12.19	15.23	18.35	21.37	22.88
365	242			-	-	-	-	-	15.48	18.59	21.77	24.83	26.36
933	618	**1361N**	13.6 x 1N-SK	-	-	-	-	-	-	13.42	16.60	19.65	21.17
311	206			-	-	-	-	-	-	16.65	19.89	23.00	24.54
813	539	**1561N**	15.6 x 1N-SK	-	-	-	-	-	-	-	14.73	17.83	19.37
271	180			-	-	-	-	-	-	-	17.91	21.08	22.64
721	478	**1761N**	17.6 x 1N-SK	-	-	-	-	-	-	-	-	15.91	17.48
241	160			-	-	-	-	-	-	-	-	19.05	20.65

RC80 (2322V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS									
				BELT PART NUMBER									
1750 RPM Motor	1160 RPM Motor			2322V 421	2322V 441	2322V 481	2322V 521	2322V 541	2322V 601	2322V 661	2322V 721	2322V 801	2322V 1001
2055	1362	**661P**	6.6 x 1P-SK	9.76	10.76	12.76	14.77	15.77	18.77	21.77	24.77	28.77	38.77
684	453			13.68	14.69	16.71	18.72	19.73	22.74	25.75	28.76	32.77	42.79
1785	1183	**761P**	7.6 x 1P-SK	8.99	9.99	11.99	13.99	14.99	17.99	20.99	23.99	27.99	37.99
594	394			12.79	13.81	15.84	17.86	18.87	21.90	24.92	27.93	31.95	41.97
1577	1045	**861P**	8.6 x 1P-SK	-	9.20	11.20	13.20	14.20	17.20	20.20	23.20	27.20	37.20
525	348			-	12.90	14.94	16.98	18.00	21.04	24.06	27.09	31.11	41.15
1413	936	**961P**	9.6 x 1P-SK	-	-	10.38	12.38	13.39	16.39	19.40	22.40	26.40	36.41
470	312			-	-	14.02	16.08	17.10	20.15	23.20	26.23	30.26	40.32
1262	836	**1081P**	10.8 x 1P-SK	-	-	-	11.41	12.42	15.44	18.45	21.46	25.47	35.48
420	278			-	-	-	15.00	16.03	19.11	22.18	25.22	29.27	39.35
1154	765	**1181P**	11.8 x 1P-SK	-	-	-	-	11.55	14.58	17.61	20.63	24.64	34.67
384	255			-	-	-	-	15.07	18.18	21.27	24.33	28.40	38.50
986	654	**1381P**	13.8 x 1P-SK	-	-	-	-	-	12.79	15.86	18.91	22.95	33.01
328	218			-	-	-	-	-	16.24	19.38	22.49	26.60	36.77
861	571	**1581P**	15.8 x 1P-SK	-	-	-	-	-	-	13.99	17.10	21.19	31.31
287	190			-	-	-	-	-	-	17.38	20.56	24.73	34.99
764	506	**1781P**	17.8 x 1P-SK	-	-	-	-	-	-	-	15.17	19.34	29.57
254	169			-	-	-	-	-	-	-	18.52	22.78	33.16

Refer to table on page D1—53 for additional belts available.

Selection Charts

RC105 (2926V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				BELT PART NUMBER							
1750 RPM Motor	1160 RPM Motor			2926V 574	2926V 606	2926V 646	2926V 686	2926V 726	2926V 834	2926V 906	2926V 1006
2390	1584	**761T**	7.6 x 1T-SK	14.50	16.11	18.12	20.12	22.13	27.54	31.14	36.15
594	394			20.54	22.15	24.16	26.17	28.18	33.60	37.21	42.22
2112	1400	**861T**	8.6 x 1T-SK	13.76	15.36	17.37	19.37	21.37	26.78	30.38	35.38
525	348			19.67	21.29	23.31	25.32	27.34	32.77	36.38	41.40
1892	1254	**961T**	9.6 x 1T-SK	13.00	14.60	16.60	18.60	20.60	26.00	29.60	34.60
470	312			18.78	20.41	22.44	24.46	26.48	31.92	35.54	40.57
1714	1136	**1061T**	10.6 x 1T-SK	12.22	13.82	15.82	17.82	19.82	25.22	28.82	33.82
426	282			17.87	19.51	21.55	23.58	25.61	31.07	34.70	39.73
1566	1038	**1161T**	11.6 x 1T-SK	-	13.02	15.02	17.02	19.02	24.43	28.03	38.03
389	258			-	18.58	20.64	22.68	24.72	30.20	33.84	38.88
1336	885	**1361T**	13.6 x 1T-SK	-	-	13.36	15.37	17.38	22.80	26.41	31.42
332	220			-	-	18.75	20.82	22.89	28.42	32.08	37.15
1164	772	**1561T**	15.6 x 1T-SK	-	-	-	-	15.66	21.12	24.74	29.77
289	192			-	-	-	-	20.97	26.58	30.28	35.38
1032	684	**1761T**	17.6 x 1T-SK	-	-	-	-	-	19.36	23.02	28.07
257	170			-	-	-	. .	-	24.66	28.40	33.56
927	614	**1961T**	19.6 x 1T-SK	-	-	-	-	-	17.51	21.22	26.32
230	153			-	-	-	-	-	22.65	26.46	31.68

RC100 (2926V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				BELT PART NUMBER							
1750 RPM Motor	1160 RPM Motor			2926V 574	2926V 606	2926V 646	2926V 686	2926V 726	2926V 834	2926V 906	2926V 1006
2245	1488	**761T**	7.6 x 1T-SK	15.03	16.63	18.43	20.64	22.64	28.05	31.65	36.65
748	496			20.05	21.66	23.67	25.68	27.68	33.10	36.71	41.72
1984	1315	**861T**	8.6 x 1T-SK	14.27	15.87	17.88	19.88	21.88	27.28	30.88	35.88
661	438			19.19	20.81	22.82	24.84	26.85	32.27	35.88	40.90
1777	1178	**961T**	9.6 x 1T-SK	13.50	15.10	17.10	19.10	21.10	26.50	30.10	35.10
592	393			18.31	19.93	21.96	23.98	26.00	31.43	35.05	40.07
1610	1067	**1061T**	10.6 x 1T-SK	12.71	14.31	16.31	18.31	20.31	25.71	29.31	34.31
537	356			17.41	19.04	21.08	23.11	25.13	30.58	34.21	39.23
1471	975	**1161T**	11.6 x 1T-SK	-	13.50	15.50	17.50	19.51	24.91	28.51	33.52
490	325			-	18.13	20.17	22.22	24.25	29.72	33.35	38.39
1255	832	**1361T**	13.6 x 1T-SK	-	-	13.81	15.83	17.85	23.27	26.88	31.90
418	277			-	-	18.30	20.37	22.43	27.95	31.61	36.67
1294	725	**1561T**	15.6 x 1T-SK	-	-	-	14.06	16.10	21.57	25.20	30.23
365	242			-	-	-	18.93	20.53	26.12	29.81	34.91
969	643	**1761T**	17.6 x 1T-SK	-	-	-	-	-	19.80	23.46	28.53
323	214			-	-	-	-	-	24.21	27.85	33.10
871	577	**1961T**	19.6 x 1T-SK	-	-	-	-	-	17.94	21.65	36.76
290	192			-	-	-	-	-	22.22	26.02	31.23

Refer to table on page D1—53 for additional belts available.

Selection Charts

RC1315 (4430V BELT)

DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				BELT PART NUMBER							
1750 RPM Motor	1160 RPM Motor			4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320	4430V 1610
2028	1345	**1101W**	11.0 x 1W-SF	17.82	20.82	23.83	26.83	29.83	35.83	47.34	61.84
676	448			24.27	27.30	30.32	33.34	36.35	42.38	53.91	68.43
1859	1233	**1201W**	12.0 x 1W-SF	17.05	20.06	23.06	26.06	29.06	35.06	46.56	61.06
620	411			23.39	26.43	29.46	32.49	35.51	41.54	53.08	67.61
1716	1138	**1301W**	13.0 x 1W-SF	16.27	19.27	22.27	25.27	28.27	34.27	45.77	60.27
572	379			22.50	25.55	28.59	31.62	34.65	40.70	52.25	66.79
1594	1056	**1401W**	14.0 x 1W-SF	15.47	18.48	21.48	24.48	27.48	33.48	44.98	59.48
531	352			21.58	24.65	27.70	30.75	33.79	39.84	51.41	65.97
1488	986	**1501W**	15.0 x 1W-SF	-	17.66	20.67	23.67	26.68	32.68	44.19	58.69
496	329			-	23.73	26.80	29.86	32.91	38.98	50.57	65.14
1395	924	**1601W**	16.0 x 1W-SF	-	16.83	19.84	22.85	25.86	31.87	43.38	57.89
465	308			-	22.80	25.89	28.96	32.02	38.11	49.72	64.30
1240	822	**1801W**	18.0 x 1W-SF	-	-	18.14	21.17	24.19	30.22	41.76	56.28
413	274			-	-	23.99	27.10	30.19	36.33	47.99	62.61
1116	740	**2001W**	20.0 x 1W-SF	-	-	-	19.41	22.46	28.53	40.10	54.64
372	247			-	-	-	25.17	28.30	34.50	46.23	60.90
1014	672	**2201W**	22.0 x 1W-SF	-	-	-	-	20.65	26.78	38.40	52.98
338	224			-	-	-	-	26.34	32.61	44.43	59.16
930	616	**2401W**	24.0 x 1W-SF	-	-	-	-	-	24.96	36.67	51.30
310	205			-	-	-	-	-	30.66	42.60	57.40
797	528	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	33.06	47.84
266	176			-	-	-	-	-	-	38.78	53.77

RC1330 (4430V BELT)

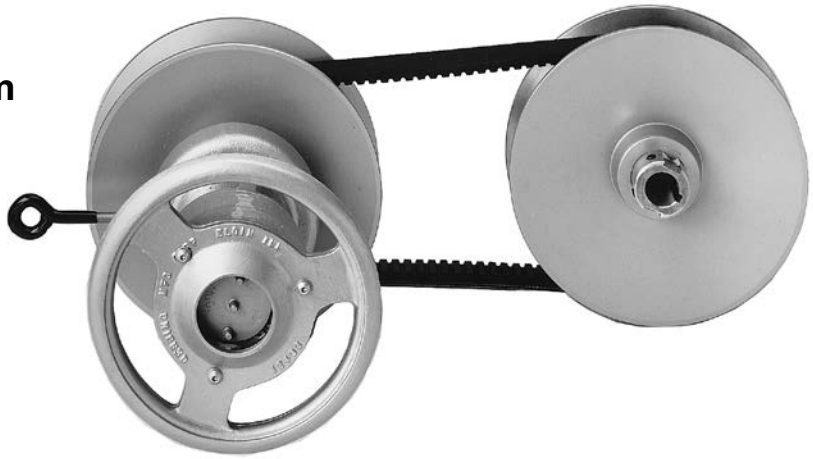
DRIVEN SPEED		PRODUCT NUMBER	GROOVED COMPANION SHEAVE	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS							
				BELT PART NUMBER							
1750 RPM Motor	1160 RPM Motor			4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320	4430V 1610
2028	1345	**1101W**	11.0 x 1W-SF	17.82	20.82	23.83	26.83	29.83	35.83	47.34	61.84
737	488			23.99	27.02	30.04	33.06	36.07	42.09	53.62	68.14
1859	1233	**1201W**	12.0 x 1W-SF	17.05	20.06	23.06	26.06	29.06	35.06	46.56	61.06
675	448			23.12	26.16	29.19	32.21	35.23	41.26	52.80	67.33
1716	1138	**1301W**	13.0 x 1W-SF	16.27	19.27	22.27	25.27	28.27	34.27	45.77	60.27
623	413			22.23	25.28	28.32	31.35	34.38	40.42	51.97	66.51
1594	1056	**1401W**	14.0 x 1W-SF	15.47	18.48	21.48	24.48	27.48	33.48	44.98	59.48
579	384			21.32	24.39	27.44	30.48	33.51	39.57	51.13	65.68
1488	986	**1501W**	15.0 x 1W-SF	-	17.66	20.67	23.67	26.68	32.68	44.19	58.69
540	358			-	23.47	26.54	29.59	32.64	38.71	50.29	64.86
1395	924	**1601W**	16.0 x 1W-SF	-	16.83	19.84	22.85	25.86	31.87	43.38	57.89
506	336			-	22.54	25.63	28.69	31.75	37.84	49.44	64.02
1240	822	**1801W**	18.0 x 1W-SF	-	-	18.14	21.17	24.19	30.22	41.76	56.28
450	298			-	-	23.74	26.85	29.93	36.06	47.72	62.34
1116	740	**2001W**	20.0 x 1W-SF	-	-	-	19.41	22.46	28.53	40.10	54.64
405	269			-	-	-	24.92	28.05	34.24	45.96	60.63
1014	672	**2201W**	22.0 x 1W-SF	-	-	-	-	20.65	26.78	38.40	52.98
368	244			-	-	-	-	26.09	32.36	44.17	58.89
930	616	**2401W**	24.0 x 1W-SF	-	-	-	-	-	24.96	36.67	51.30
338	224			-	-	-	-	-	30.41	42.34	57.13
797	528	**2801W**	28.0 x 1W-E	-	-	-	-	-	-	33.06	47.84
289	192			-	-	-	-	-	-	38.53	53.51

Refer to table on page D1—53 for additional belts available.

Roto-Cone® Type W

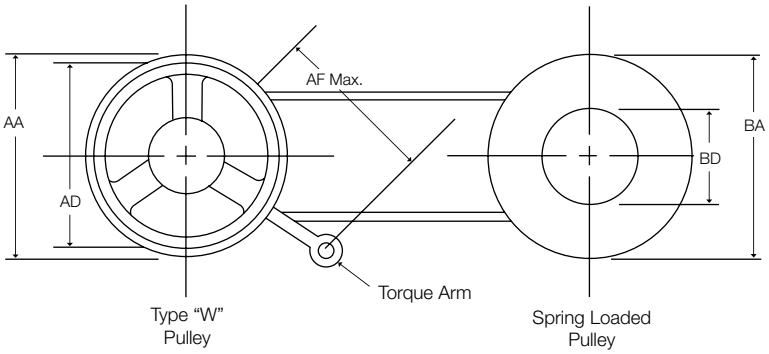
Dimensions

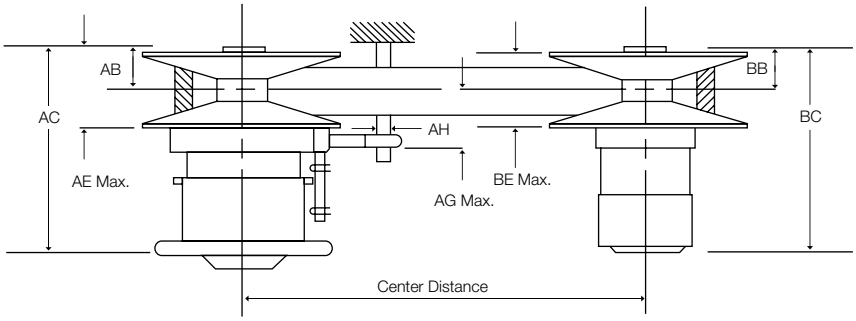
Fixed Center Drive
1/4 - 25 HP @ 1750 rpm



Standard Bores

Model	Standard Bores
RC55W	1/2, 5/8
RC60W	5/8, 3/4
RC75W	5/8, 3/4, 7/8
RC80W	3/4, 7/8, 1, 1-1/8
RC105W	3/4, 7/8, 1-1/8
RC100W	1-1/8, 1-1/4
RC1315W	1-3/8, 1-5/8
RC1330W	1-1/4, 1-5/8, 1-7/8





Roto-Cone Type W Dimensions

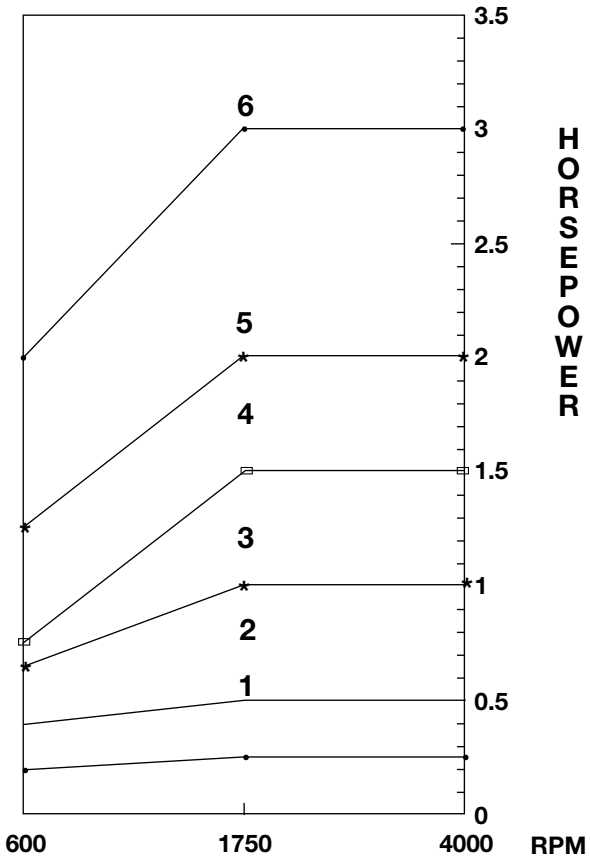
Driver Model	Driven Model	AA	AB	AC	AD	AE Max	AF Max.	AG Max.	AH	BA	BB	BC	BD	BE Max
RC55W	RC55	5.50	1.00	6.31	5.50	1.81	4.00	1.81	.50	5.50	1.00	4.75	2.06	1.18
RC60W	RC60	6.00	.94	6.75	5.50	2.25	4.00	2.38	.50	6.00	.94	5.75	2.25	2.25
RC75W	RC75	7.50	1.25	8.31	7.50	2.63	6.25	2.13	.63	7.50	1.25	7.13	2.63	2.63
RC80W	RC80	8.00	1.44	9.19	7.50	2.75	6.25	2.88	.63	8.00	1.44	8.00	2.88	2.75
RC105W	RC105	10.63	1.81	9.19	7.50	3.00	6.25	2.19	.63	10.63	1.81	8.00	2.88	3.25
RC100W	RC100	10.00	2.06	11.88	9.00	3.88	6.25	3.69	.63	10.00	2.06	10.19	3.63	3.88
RC1315W	RC1315	13.00	2.25	15.44	12.00	5.38	9.50	5.06	.63	13.00	2.25	12.56	4.50	5.38
RC1330W	RC1330	13.00	2.50	14.25	12.00	5.38	9.50	3.75	.88	13.00	2.50	12.00	6.25	5.63

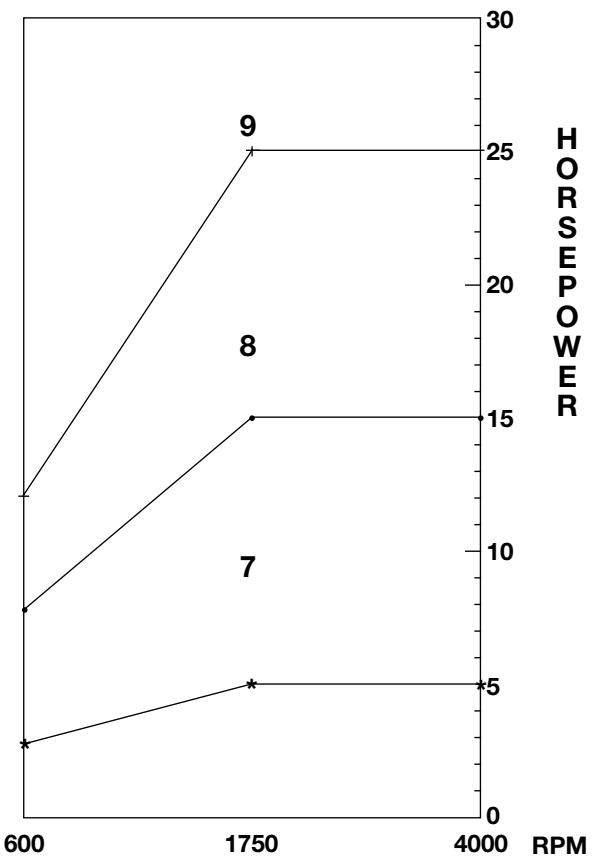
Dimensions

1/4 - 25 HP @ 1750 rpm

LINE NUMBER	HP RATING @1750	PULLEY MODELS		DRIVEN SPEEDS 1750 RPM DRIVER		CENTER DISTANCE (IN.)								
						1422V BELT								
		DRIVER	DRIVEN	MAX	MIN	360	420	480	540	600	660	720	780	
1	0.25	RC55W	RC55	5000	600	12.45	15.45	18.45	21.45	24.45	27.45	30.45	33.45	
						1922V BELT								
						363	403	426	454	484	544	604	666	726
2	0.5	RC60W	RC60	5000	600	12.05	14.05	15.2	16.6	18.1	21.1	24.1	27.2	30.2
3	1	RC60W	RC75	2700	490	10.79	12.79	13.94	15.34	16.84	19.84	22.84	25.94	28.94
4	1.5	RC75W	RC75	4800	600	10.47	12.47	13.62	15.02	16.52	19.52	22.52	25.62	28.62
						2322V BELT								
						441	481	521	541	601	661	721	801	1001
5	2	RC80W	RC80	4400	600	13.7	15.7	17.7	18.7	21.7	24.7	27.7	31.7	41.7
						2926V BELT								
						574	606	646	686	726	834	906	1006	
6	3	RC105W	RC105	3600	450	18.2	19.8	21.8	23.8	25.8	31.2	34.8	39.8	
7	5	RC100W	RC100	3820	600	18.1	19.7	21.7	23.7	25.7	31.1	34.7	39.7	
						4430V BELT								
						730	790	850	910	970	1030	1090	1150	1320
8	15	RC1315W	RC1315	3000	600	22.7	25.7	28.7	31.7	34.7	37.7	40.7	43.7	52.2

The following charts are based around a 1750 rpm motor.
All other motor speeds will be proportional.





Graphs show horsepower rating for line number indicated.

Var-A-Cone®

Selection Charts

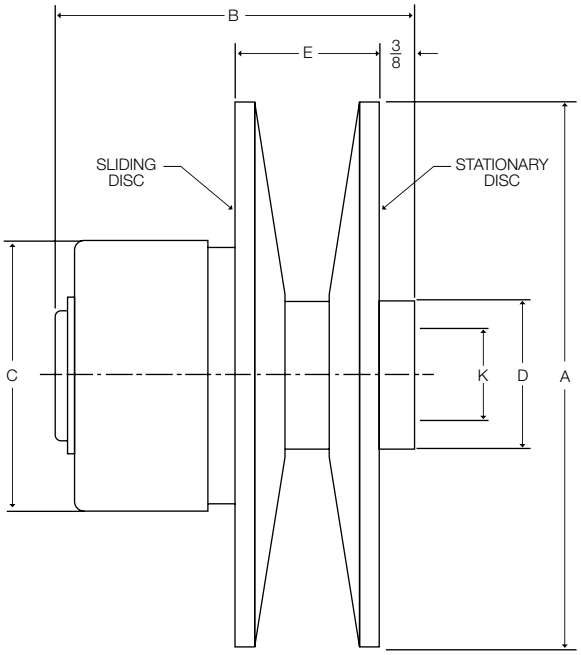
MODEL NO.	HP @ RPM		SPEED RATIO	BELT SECTION	PITCH DIA.		DRIVE CHART PAGE NO.
	1750	1160			MAX.	MIN.	
VC30	1/3	1/4	1.7:1	A	3.4	2.0	D1—33
VC40	1/2	1/3	2.0:1	A	4.0	2.0	D1—33
VC51	1	1/2	1.7:1	B	5.1	3.0	D1—34
VC57	2	1	2.2:1	B	5.8	2.7	D1—34

Horsepower ratings are based on constant torque and are shown for maximum pitch diameters.
Horsepower ratings at other pitch diameters reduce in proportion to the speed.



FEATURES

- **Cast Iron Construction**
- **No Lubrication**
- **Thru Shaft Mounting**
- **Economical, Compact Design**
- **1/2 HP thru 2 HP @ 1750 rpm**



Dimensions

MODEL NO.	DIMENSIONS IN INCHES					MAX.	WEIGHT BORE	LBS.
	A	B	C	D	E*	STOCK BORE		
VC30	3.38	2.77	2.13	1.38	1.09	1/2, 5/8, 3/4	3/4	1.8
VC40	4.00	2.88	2.13	1.38	1.25	1/2, 5/8, 3/4	3/4	2.5
VC51	5.25	3.69	2.95	1.63	1.46	5/8, 3/4, 7/8, 1	1-1/8	4.5
VC57	6.00	3.94	2.95	1.63	1.59	5/8, 3/4, 7/8, 1	1-1/8	6.8

* Maximum Dimension

ORDERING EXAMPLE: VC40 X 5/8

Bores and Keyseats

BORE	KEYSEAT
1/2	NONE
5/8 - 3/4 - 7/8	3/16 x 3/32
1”	1/4 x 1/8

Selection Charts

VC30 (A and 4L BELTS)

DRIVEN SPEEDS				FHP COMPANION SHEAVE PRODUCT NUMBER	MINIMUM CENTER DISTANCE (ADD 1" FOR MAXIMUM)								
1750 RPM		1160 RPM			BELT NUMBER								
MAX. SPEED	MIN. SPEED	MAX. SPEED	MIN. SPEED		AP25	AP30	AP35	AP40	AP45	AP55	AP65	AP75	AP80
1777	1034	1178	685	**AK32**	7.93	10.43	12.93	15.43	17.93	22.93	27.93	32.93	35.43
1543	898	1023	595	**AK39**	7.53	10.03	12.53	15.03	17.53	22.53	27.53	32.53	35.03
1466	853	972	566	**AK41**	7.37	9.87	12.37	14.87	17.37	22.37	27.37	32.37	34.87
1363	794	904	526	**AK44**	7.12	9.63	12.13	14.63	17.13	22.14	27.14	32.14	34.64
1106	644	733	427	**AK54**	6.27	8.80	11.31	13.82	16.32	21.33	26.34	31.34	33.84
1011	588	670	390	**AK59**	5.83	8.37	10.89	13.40	15.91	20.92	25.93	30.94	33.44
931	542	617	359	**AK64**	-	7.92	10.46	12.98	15.49	20.51	25.52	30.53	33.03
803	467	532	310	**AK74**	-	6.99	9.57	12.11	14.64	19.68	24.70	29.71	32.22
706	411	468	273	**AK84**	-	-	8.63	11.21	13.76	18.82	23.86	28.88	31.39
630	367	418	243	**AK94**	-	-	7.63	10.26	12.85	17.95	23.01	28.04	30.56
543	316	360	209	**AK109**	-	-	-	8.74	11.41	16.59	21.69	26.76	29.28
477	277	316	184	**AK124**	-	-	-	-	9.85	15.17	20.33	25.43	27.97
383	223	254	148	**AK154**	-	-	-	-	-	12.06	17.45	22.67	25.25

VC40 (A and 4L BELTS)

DRIVEN SPEEDS				FHP COMPANION SHEAVE PRODUCT NUMBER	MINIMUM CENTER DISTANCE (ADD 1.12" FOR MAXIMUM)								
1750 RPM		1160 RPM			BELT NUMBER								
MAX. SPEED	MIN. SPEED	MAX. SPEED	MIN. SPEED		AP25	AP30	AP35	AP40	AP45	AP55	AP65	AP75	AP80
2121	1034	1406	685	**AK32**	7.41	9.91	12.41	14.91	17.41	22.41	27.41	32.41	34.91
1842	898	1221	595	**AK39**	7.02	9.51	12.02	14.52	17.02	22.02	27.02	32.02	34.52
1750	853	1160	566	**AK41**	6.87	9.37	11.87	14.37	16.87	21.87	26.87	31.87	34.37
1628	794	1079	526	**AK44**	6.63	9.13	11.63	14.13	16.63	21.63	26.63	31.63	34.13
1321	644	875	427	**AK54**	5.81	8.32	10.82	13.33	15.83	20.83	25.84	30.84	33.34
1207	588	800	390	**AK59**	-	7.90	10.41	12.92	15.42	20.43	25.43	30.44	32.94
1111	542	737	359	**AK64**	-	7.46	9.99	12.50	15.01	20.02	25.03	30.04	32.54
959	467	636	310	**AK74**	-	6.55	9.11	11.65	14.17	19.20	24.21	29.22	31.73
843	411	559	273	**AK84**	-	-	8.19	10.76	13.30	18.35	23.38	28.40	30.91
753	367	499	243	**AK94**	-	-	-	9.83	12.40	17.49	22.53	27.56	30.08
648	316	430	209	**AK109**	-	-	-	8.33	10.98	16.14	21.23	26.29	28.81
569	277	377	184	**AK124**	-	-	-	-	9.44	14.73	19.89	24.98	27.51
458	223	303	148	**AK154**	-	-	-	-	-	11.65	17.02	22.23	24.81

Refer to table on page D1—35 for additional companions available.
Refer to table on page D1—40 for additional belts available.

Selection Charts

VC51 (B and 5L BELTS)

DRIVEN SPEEDS				FHP COMPANION SHEAVE PRODUCT NUMBER	MINIMUM CENTER DISTANCE (ADD 1.75" FOR MAXIMUM)								
1750 RPM		1160 RPM			BELT NUMBER								
MAX. SPEED	MIN. SPEED	MAX. SPEED	MIN. SPEED		BP25	BP30	BP35	BP40	BP45	BP55	BP65	BP75	BP80
2047	1184	1357	785	**BK46**	6.46	8.46	10.96	13.46	15.96	20.97	25.97	30.97	33.47
1697	981	1125	651	**BK55**	-	7.76	10.26	12.76	15.26	20.26	25.26	30.26	32.76
1635	946	1084	627	**BK57**	-	7.60	10.10	12.60	15.10	20.10	25.10	30.10	32.60
1497	866	993	574	**BK62**	-	7.20	9.70	12.20	14.71	19.71	24.71	29.71	32.21
1382	799	916	530	**BK67**	-	6.78	9.29	11.80	14.30	19.31	24.31	29.31	31.81
1320	764	875	506	**BK72**	-	-	9.04	11.55	14.06	19.06	24.07	29.07	31.57
1196	692	793	459	**BK77**	-	-	8.45	10.97	13.48	18.49	23.50	28.51	31.01
1019	589	675	391	**BK90**	-	-	-	9.83	12.37	17.41	22.43	27.45	29.95
914	529	606	351	**BK100**	-	-	-	8.91	11.48	16.55	21.59	26.62	29.13
793	458	525	304	**BK115**	-	-	-	-	10.06	15.22	20.30	25.35	27.86
759	439	503	291	**BK120**	-	-	-	-	9.56	14.76	19.86	24.92	27.44
699	405	464	268	**BK130**	-	-	-	-	-	13.81	18.96	24.04	26.57
566	328	375	217	**BK160**	-	-	-	-	-	-	16.10	21.31	23.88

VC57 (B and 5L BELTS)

DRIVEN SPEEDS				FHP COMPANION SHEAVE PRODUCT NUMBER	MINIMUM CENTER DISTANCE (ADD 2.6" FOR MAXIMUM)								
1750 RPM		1160 RPM			BELT NUMBER								
MAX. SPEED	MIN. SPEED	MAX. SPEED	MIN. SPEED		BP25	BP30	BP35	BP40	BP45	BP55	BP65	BP75	BP80
2308	1064	1530	705	**BK46**	5.91	7.93	10.43	12.94	15.44	20.45	25.45	30.45	32.95
1913	882	1268	584	**BK55**	-	7.25	9.75	12.25	14.75	19.75	24.75	29.75	32.25
1843	849	1222	563	**BK57**	-	7.09	9.59	12.09	14.59	19.59	24.59	29.59	32.09
1688	778	1119	516	**BK62**	-	-	9.20	11.70	14.20	19.20	24.20	29.20	31.70
1558	718	1033	476	**BK67**	-	-	8.80	11.30	13.80	18.81	23.81	28.81	31.31
1489	686	987	455	**BK72**	-	-	8.56	11.06	13.56	18.57	23.57	28.57	31.07
1349	622	894	412	**BK77**	-	-	7.97	10.49	12.99	18.00	23.01	28.01	30.51
1149	529	761	351	**BK90**	-	-	-	9.37	11.90	16.93	21.95	26.96	29.46
1031	475	683	315	**BK100**	-	-	-	-	11.02	16.08	21.11	26.13	28.64
894	412	592	273	**BK115**	-	-	-	-	9.63	14.76	19.83	24.87	27.39
856	394	567	261	**BK120**	-	-	-	-	-	14.31	19.40	24.45	26.96
789	363	523	241	**BK130**	-	-	-	-	-	13.38	18.51	23.58	26.11
638	294	423	195	**BK160**	-	-	-	-	-	-	15.68	20.87	23.44

Refer to table on page D1—35 for additional companions available.
Refer to table on page D1—40 for additional belts available.

Light Duty Sheaves

AK QT SHEAVES

DATUM DIA. A (4L) Belts	O.D. ◆	SINGLE-GROOVE PRODUCT NO.	TYPE	DIMENSIONS E	F	L	M	Wt. (lbs.)
2.8	3.0	AK30	E1	3/8	3/4	1-1/4	7/8	1.7
3.0	3.2	AK32	E1	3/8	3/4	1-1/4	7/8	1.8
3.2	3.4	AK34	C2	1/16	3/4	1-1/4	9/16	1.6
3.5	3.7	AK39	C2	1/16	3/4	1-1/4	9/16	2.0
3.7	3.9	AK41	C2	1/16	3/4	1-1/4	9/16	2.2
4.0	4.2	AK44	C2	1/16	3/4	1-1/4	9/16	2.5
4.2	4.4	AK46	C2	1/16	3/4	1-1/4	9/16	2.5
4.5	4.7	AK49	C2	1/16	3/4	1-1/4	9/16	2.6
4.7	4.9	AK51	C2	1/16	3/4	1-1/4	9/16	2.9
5.0	5.2	AK54	C2	1/16	3/4	1-1/4	9/16	2.6
5.2	5.4	AK56	C2	1/16	3/4	1-1/4	9/16	2.9
5.5	5.7	AK59	C2	1/16	3/4	1-1/4	9/16	3.0
5.7	5.9	AK61	D3	1/16	3/4	1-1/4	9/16	3.1
6.0	6.2	AK64	D3	1/16	3/4	1-1/4	9/16	3.3
6.2	6.4	AK66	D3	1/16	3/4	1-1/4	9/16	3.4
6.5	6.7	AK69	D3	1/16	3/4	1-1/4	9/16	3.8
6.7	6.9	AK71	D3	1/16	3/4	1-1/4	9/16	3.6
7.0	7.2	AK74	D3	1/16	3/4	1-1/4	9/16	3.9
7.5	7.7	AK79	D3	1/16	3/4	1-1/4	9/16	4.1
8.0	8.2	AK84	D3	1/16	3/4	1-1/4	9/16	4.2
8.5	8.7	AK89	D3	1/16	3/4	1-1/4	9/16	4.6
9.0	9.2	AK94	D3	1/16	3/4	1-1/4	9/16	5.0
9.5	9.7	AK99	D3	1/16	3/4	1-1/4	9/16	5.0
10.0	10.2	AK104	D3	1/16	3/4	1-1/4	9/16	5.1
10.5	10.7	AK109	D3	1/16	3/4	1-1/4	9/16	5.6
11.0	11.2	AK114	D3	1/16	3/4	1-1/4	9/16	6.1
12.0	12.2	AK124	D3	1/16	3/4	1-1/4	9/16	6.6
13.0	13.2	AK134	D3	1/16	3/4	1-1/4	9/16	8.0
14.0	14.2	AK144	D3	1/16	3/4	1-1/4	9/16	8.4
15.0	15.2	AK154	D3	1/16	3/4	1-1/4	9/16	9.4
18.0	18.2	AK184	D3	1/16	3/4	1-1/4	9/16	11.9

Weights for all Sure-Grip bushed items are approximate and include the bushing.

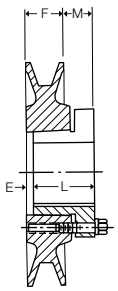
◆ P.D. same as O.D.

QT BUSHINGS

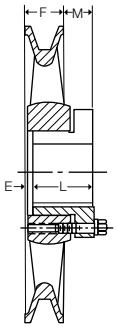
Product No.	Bore	Key Seat	Wt. (*)	Product No.	Bore (mm)	Key ■	Wt. (*)
QTMPB	7/16	No KS	.6	QT14MM	14	5 x 5	.6
QT12	1/2	1/8 x 1/16	.6	QT15MM	15	5 x 5	.6
QT9/16	9/16	1/8 x 1/16	.6	QT16MM	16	5 x 5	.6
QT58	5/8	3/16 x 3/32	.6	QT18MM	18	6 x 6	.6
QT11/16	11/16	3/16 x 3/32	.6	QT19MM	19	6 x 6	.6
QT34	3/4	3/16 x 3/32	.6	QT20MM	20	6 x 6	.6
QT13/16	13/16	3/16 x 3/32	.6	QT22MM	22	6 x 6	.6
QT78	7/8	3/16 x 3/32	.6	QT24MM	24	8 x 7	.6
QT15/16	15/16	1/4 x 1/8	.6	QT25MM	25	8 x 7	.6
QT1	1	1/4 x 1/8	.6	QT28MM	28	8 x 7	.6
QT1116	1-1/16	1/4 x 1/8	.6	QT30MM	30	8 x 7	.6
QT118	1-1/8	1/4 x 1/8	.6	QT32MM	32	10 x 6	.6
QT1316	1-3/16	1/4 x 1/8	.6	QT35MM	35	10 x 6	.6
QT114	1-1/4	1/4 x 1/8	.6	QT38MM	38	10 x 6	.6
QT1516	1-5/16	5/16 x 1/16	.6				
QT138	1-3/8	5/16 x 1/16	.6				
QT1716	1-7/16	3/8 x 1/16	.6				
QT112	1-1/2	3/8 x 1/16	.6				

* Approximate weight in lbs.

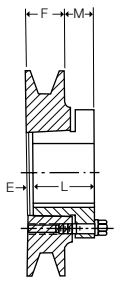
■ The metric system does not refer to keyseat or keyway dimensions as does the English system; instead, dimensions are given for the key itself, which is rectangular in shape and not square as in the English system. This meets ISO standards.



Type C2



Type D3



Type E1

BK QT SHEAVES

DATUM DIA. A (4L) Belts	DATUM DIA. B (5L) Belts	O.D. ◆	SINGLE-GROOVE PRODUCT NO.	TYPE	DIMENSIONS E	F	L	M	Wt. (lbs.)
2.4	2.8	3.1	BK30	E1	1/2	7/8	1-1/4	7/8	1.8
2.6	3.0	3.3	BK32	E1	1/2	7/8	1-1/4	7/8	2.0
2.8	3.2	3.5	BK34	E1	1/2	7/8	1-1/4	7/8	2.2
3.0	3.4	3.7	BK36	C2	1/16	7/8	1-1/4	7/16	1.6
3.2	3.6	3.9	BK40	C2	1/16	7/8	1-1/4	7/16	2.0
3.5	3.9	4.2	BK45	C2	1/16	7/8	1-1/4	7/16	2.4
3.7	4.1	4.4	BK47	C2	1/16	7/8	1-1/4	7/16	2.8
4.0	4.4	4.7	BK50	C2	1/16	7/8	1-1/4	7/16	2.6
4.2	4.6	4.9	BK52	C2	1/16	7/8	1-1/4	7/16	2.7
4.5	4.9	5.2	BK55	C2	1/16	7/8	1-1/4	7/16	3.2
4.7	5.1	5.4	BK57	D3	1/16	7/8	1-1/4	7/16	3.3
5.0	5.4	5.7	BK60	D3	1/16	7/8	1-1/4	7/16	3.1
5.2	5.6	5.9	BK62	D3	1/16	7/8	1-1/4	7/16	3.2
5.5	5.9	6.2	BK65	D3	1/16	7/8	1-1/4	7/16	3.4
5.7	6.1	6.4	BK67	D3	1/16	7/8	1-1/4	7/16	3.5
6.0	6.4	6.7	BK70	D3	1/8	7/8	1-1/4	1/2	3.4
6.2	6.6	6.9	BK72	D3	1/8	7/8	1-1/4	1/2	3.7
6.5	6.9	7.2	BK75	D3	1/8	7/8	1-1/4	1/2	3.9
6.7	7.1	7.4	BK77	D3	1/8	7/8	1-1/4	1/2	4.4
7.0	7.4	7.7	BK80	D3	1/8	7/8	1-1/4	1/2	4.0
7.5	7.9	8.2	BK85	D3	1/8	7/8	1-1/4	1/2	4.4
8.0	8.4	8.7	BK90	D3	1/8	7/8	1-1/4	1/2	4.9
8.5	8.9	9.2	BK95	D3	1/8	7/8	1-1/4	1/2	5.6
9.0	9.4	9.7	BK100	D3	1/8	7/8	1-1/4	1/2	5.8
9.5	9.9	10.2	BK105	D3	1/8	7/8	1-1/4	1/2	6.1
10.0	10.4	10.7	BK110	D3	1/8	7/8	1-1/4	1/2	6.6
10.5	10.9	11.2	BK115	D3	1/8	7/8	1-1/4	1/2	7.0
11.0	11.4	11.7	BK120	D3	1/8	7/8	1-1/4	1/2	7.5
12.0	12.4	12.7	BK130	D3	1/8	7/8	1-1/4	1/2	7.5
13.0	13.4	13.7	BK140	D3	1/8	7/8	1-1/4	1/2	9.1
14.0	14.4	14.7	BK150	D3	1/8	7/8	1-1/4	1/2	9.2
15.0	15.4	15.7	BK160	D3	1/8	7/8	1-1/4	1/2	10.4
18.0	18.4	18.7	BK190	D3	1/8	7/8	1-1/4	1/2	13.4

Weights for all Sure-Grip bushed items are approximate and include the bushing.

◆ P.D. for A belts = Datum Dia. + .38
P.D. for B belts = Datum Dia. + .36

FIXED CENTER DRIVE
DUAL-GROOVE VAR-A-CONE®

Fractional thru 1 HP



Selection

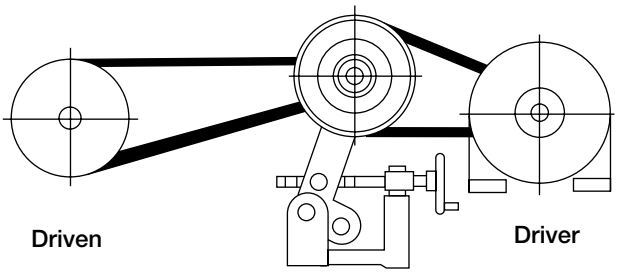
1. Determine desired maximum and minimum driven speed.

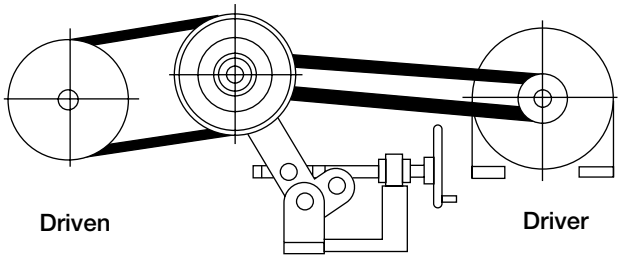
2. Select suitable DUAL-GROOVE pulley model dependent on required horsepower and speed ratio.

3. Divide maximum desired speed by the square root of the DUAL-GROOVE pulley speed ratio to obtain mean driven speed.

$$\text{Mean driven speed} = \frac{\text{Max. driven speed}}{\sqrt{\text{Speed ratio}}}$$

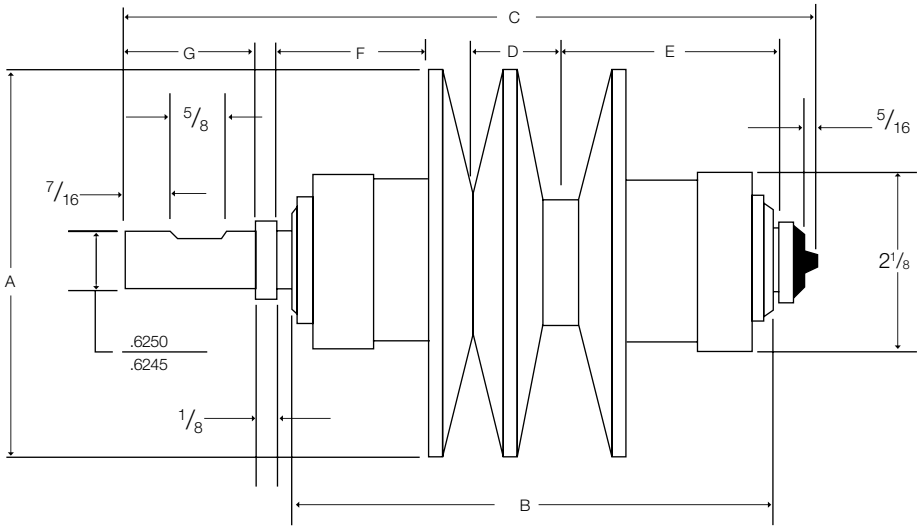
4. Determine required driver and driven pulley diameters to obtain the mean driven speed.





Dimensions

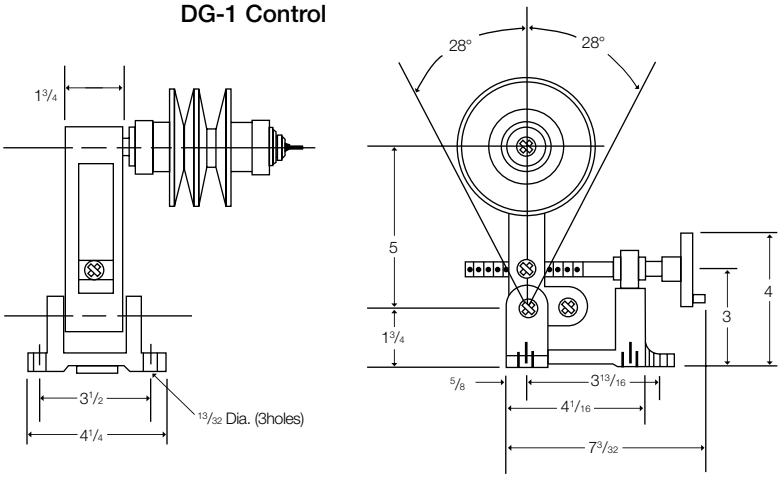
Pulley Specifications



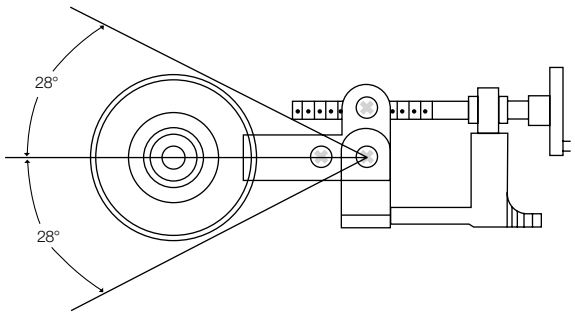
Product No.	Speed Ratio	Belt Size	Driver* Pulley P.D.	Horsepower			Dimensions in Inches							Pitch Dia.	
				Low Speed	Mean Speed	High Speed	A	B	C	D	E	F	G	Max.	Min.
VC4040	6:1	4L	2.5	.14	.34	.51	4	4-7/8	7-1/2	15/16	2-1/8	2-5/16	1-1/2	3.75	1.53
VC4040	4:1	5L	3.0	.20	.40	.60	4	4-7/8	7-1/2	1-1/16	2-1/16	2-1/4	1-1/2	3.75	1.88
VC5151	7.8:1	4L	3.2	.18	.50	.75	5	6-1/4	9-1/8	1-1/8	2-11/16	2-15/16	1-3/4	4.70	1.58
VC5151	5:1	5L	4.2	.30	.67	1.01	5	6-1/4	9-1/8	1-3/32	2-23/32	2-15/16	1-3/4	4.70	2.10

* Recommended Minimum

DG-1 Control



DG-1R Control

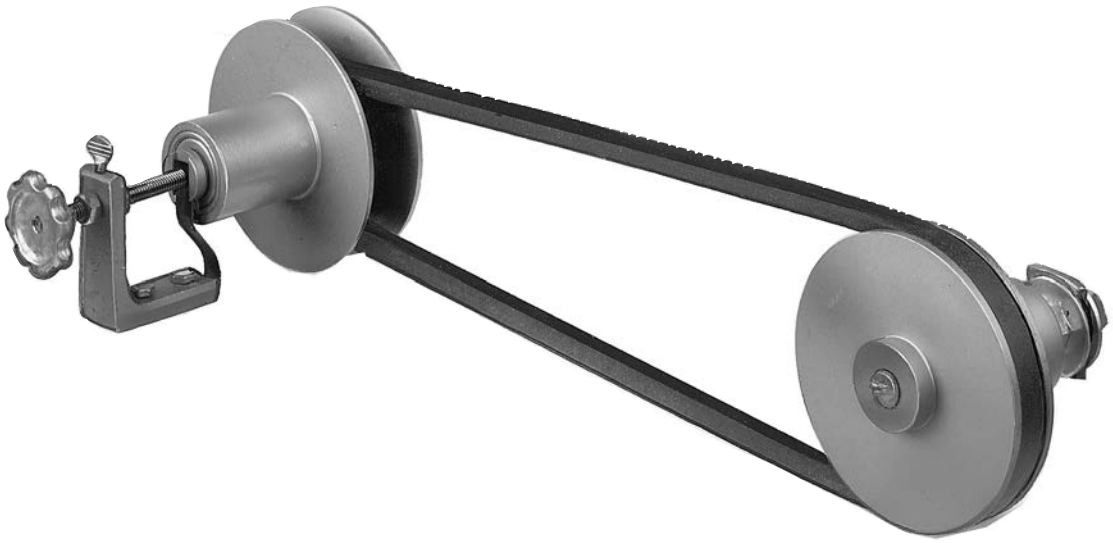


DG-1 control can be changed to DG 1R control or vice-versa by changing the location of the swivel nut.

Fixed Center Drives

Fractional Thru 2 HP

- Maintenance Free
- For use with 'A' (4L) and 'B' (5L) Belts



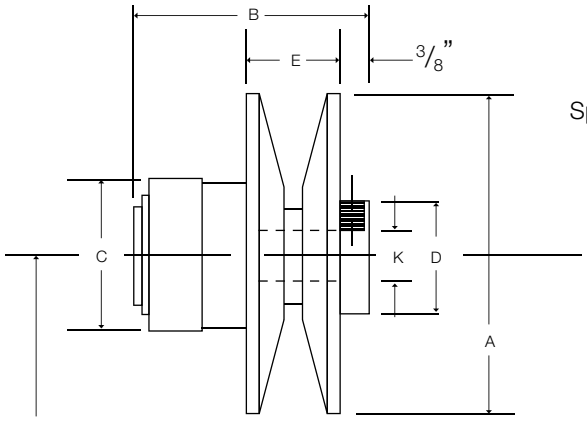
Drive should be installed as shown in the illustration above.

Selection chart for Type A fixed center Var-A-Cone drives

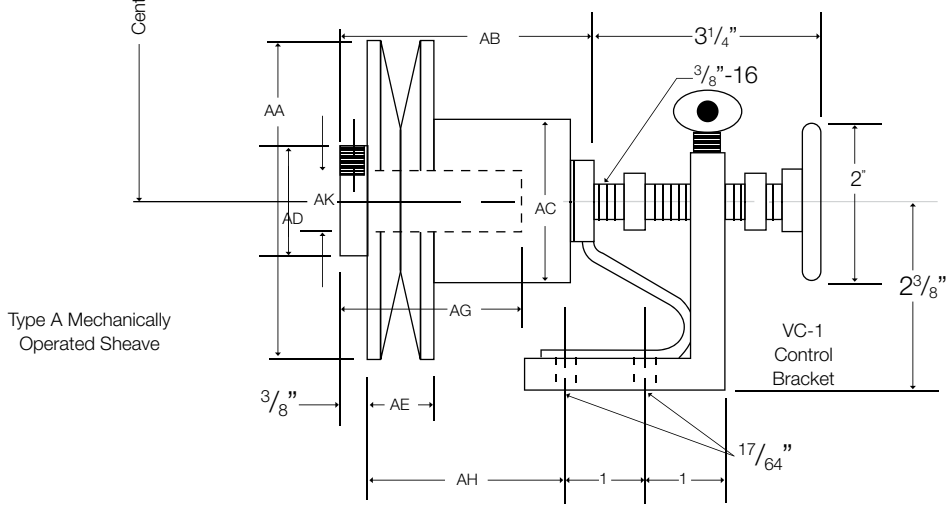
HP @ 1750	HP @ 1160	DRIVER	DRIVEN	1750 RPM		1160 RPM		CENTER DISTANCE (IN.) BELT NUMBER							
				MAX	MIN	MAX	MIN	AP40	AP46	AP49	AP53	AP57	AP65	AP75	AP85
		VC57A	VC30	4397	1254	2914	831	16.1	19.1	20.6	22.6	24.6	28.6	33.6	38.6
		VC51A	VC30	4083	1254	2706	831	16.1	19.1	20.6	22.6	24.6	28.6	33.6	38.6
		VC40A	VC30	3590	1019	2379	675	16.5	19.5	21.0	23.0	25.0	29.0	34.0	39.0
1/3	1/4	VC30A	VC30	3006	1019	1993	675	16.5	19.5	21.0	23.0	25.0	29.0	34.0	39.0
		VC30A	VC40	2229	853	1477	565	15.9	18.9	20.4	22.5	24.5	28.5	33.5	38.5
		VC30A	VC51	1826	750	1210	497	15.5	18.5	20.0	22.0	24.0	28.0	33.0	38.0
		VC30A	VC57	1859	696	1232	461	15.2	18.2	19.7	21.7	23.7	27.7	32.7	37.7
		VC57A	VC40	4397	1050	2915	696	15.6	18.6	20.1	22.1	24.1	28.1	33.1	38.1
		VC51A	VC40	4083	1050	2706	696	15.6	18.6	20.1	22.1	24.1	28.1	33.1	38.1
1/2	1/3	VC40A	VC40	3590	853	2326	565	15.9	18.9	20.4	22.5	24.5	28.5	33.5	38.5
		VC40A	VC51	2756	750	1826	497	15.5	18.5	20.0	22.0	24.0	28.0	33.0	38.0
		VC40A	VC57	2405	696	1594	461	15.2	18.2	19.7	21.7	23.7	27.7	32.7	37.7

HP @ 1750	HP @ 1160	DRIVER	DRIVEN	1750 RPM		1160 RPM		CENTER DISTANCE (IN.) BELT NUMBER							
				MAX	MIN	MAX	MIN	BP40	BP46	BP49	BP53	BP57	BP65	BP75	BP85
		VC57A	VC51	3411	909	2261	603	14.8	17.8	19.3	21.3	23.3	27.3	32.3	37.3
1	1/2	VC51A	VC51	3025	1012	2005	671	15.4	18.4	19.9	21.9	23.9	27.9	32.9	37.9
		VC51A	VC57	2445	897	1620	595	14.0	17.0	18.5	20.5	22.5	26.5	31.5	36.5
2	1	VC57A	VC57	3797	807	2517	535	14.2	17.2	18.7	20.7	22.8	26.8	31.8	36.8

Fixed Center Drives



Spring Loaded Type Pulley



Type A Mechanically Operated Sheave

Ordering Examples:

VC30 x 5/8
(spring loaded sheave)

VC40A x 5/8
(mechanically operated sheave)

VC-1
(control bracket)

MODEL NO.	DIMENSIONS IN INCHES					
	A	B	C	D	E*	K
VC30	3.38	2.77	2.13	1.38	1.09	1/2, 5/8, 3/4
VC40	4.00	2.88	2.13	1.38	1.25	1/2, 5/8, 3/4
VC51	5.25	3.69	2.95	1.63	1.46	5/8, 3/4, 7/8, 1
VC57	6.00	3.94	2.95	1.63	1.59	5/8, 3/4, 7/8, 1

	AA	AB*	AC	AD	AE*	AK	AG	AH
VC30A	3.38	4.23	2.00	1.38	1.20	1/2, 5/8, 3/4	2.77	2.94
VC40A	4.00	4.35	2.00	1.38	1.32	1/2, 5/8, 3/4	2.88	3.06
VC51A	5.25	5.31	2.75	1.63	1.46	5/8, 3/4, 7/8, 1	3.69	4.06
VC57A	6.00	5.45	2.75	1.63	1.59	5/8, 3/4, 7/8, 1	3.94	4.11

* Maximum dimension.

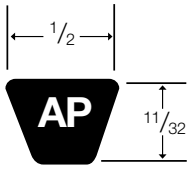
BORE	KEYSEAT
1/2	NONE
5/8 - 7/8	3/16 x 3/32
1"	1/4 x 1/8

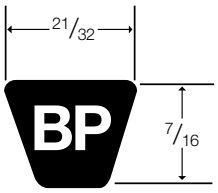
Furnished with one setscrew.

Premium V-Belts

AP Belts

Belt Number	Datum Length	Weight
AP20	21.3	.2
AP21	22.3	.2
AP22	23.3	.2
AP23	24.3	.2
AP24	25.3	.2
AP25	26.3	.2
AP26	27.3	.2
AP27	28.3	.2
AP28	29.3	.2
AP29	30.3	.2
AP30	31.3	.2
AP31	32.3	.2
AP32	33.3	.2
AP33	34.3	.2
AP34	35.3	.2
AP35	36.3	.2
AP36	37.3	.2
AP37	38.3	.2
AP38	39.3	.2
AP39	40.3	.3
AP40	41.3	.3
AP41	42.3	.3
AP42	43.3	.3
AP43	44.3	.3
AP44	45.3	.3
AP45	46.3	.3
AP46	47.3	.3
AP47	48.3	.3
AP48	49.3	.3
AP49	50.3	.3
AP50	51.3	.3
AP51	52.3	.3
AP52	53.3	.3
AP53	54.3	.3
AP54	55.3	.4
AP55	56.3	.4
AP56	57.3	.4
AP57	58.3	.4
AP58	59.3	.4
AP59	60.3	.4
AP60	61.3	.4
AP61	62.3	.4
AP62	63.3	.4
AP63	64.3	.4
AP64	65.3	.4
AP65	66.3	.4
AP66	67.3	.5
AP67	68.3	.5
AP68	69.3	.5
AP69	70.3	.5
AP70	71.3	.5
AP71	72.3	.5
AP72	73.3	.5
AP73	74.3	.5
AP74	75.3	.5
AP75	76.3	.5
AP76	77.3	.5
AP77	78.3	.5
AP78	79.3	.6
AP79	80.3	.6
AP80	81.3	.6
AP81	82.3	.6
AP82	83.3	.6
AP83	84.3	.6
AP84	85.3	.6
AP85	86.3	.6
AP86	87.3	.6
AP87	88.3	.6
AP88	89.3	.6
AP89	90.3	.6
AP90	91.3	.6
AP91	92.3	.6
AP92	93.3	.6
AP93	94.3	.6
AP94	95.3	.7
AP95	96.3	.7
AP96	97.3	.7
AP97	98.3	.7
AP98	99.3	.7
AP100	101.3	.7
AP103	104.3	.7
AP105	106.3	.7
AP110	111.3	.7
AP112	113.3	.8
AP116	117.3	.8
AP120	121.3	.8
AP128	129.3	.9
AP136	137.3	1.0
AP144	145.3	1.0
AP158	159.3	1.1
AP173	174.3	1.2
AP180	181.3	1.3





BP Belts

Belt Number	Datum Length	Weight
BP26	27.8	.3
BP28	29.8	.3
BP29	30.8	.3
BP30	31.8	.3
BP32	33.8	.3
BP33	34.8	.3
BP34	35.8	.4
BP35	36.8	.4
BP36	37.8	.4
BP37	38.8	.4
BP38	39.8	.4
BP39	40.8	.4
BP40	41.8	.4
BP41	42.8	.4
BP42	43.8	.4
BP43	44.8	.4
BP44	45.8	.5
BP45	46.8	.5
BP46	47.8	.5
BP47	48.8	.5
BP48	49.8	.5
BP49	50.8	.5
BP50	51.8	.5
BP51	52.8	.5
BP52	53.8	.5
BP53	54.8	.6
BP54	55.8	.6
BP55	56.8	.6
BP56	57.8	.6
BP57	58.8	.6
BP58	59.8	.6
BP59	60.8	.6
BP60	61.8	.6
BP61	62.8	.6
BP62	63.8	.6
BP63	64.8	.7
BP64	65.8	.7
BP65	66.8	.7
BP66	67.8	.7
BP67	68.8	.7
BP68	69.8	.7
BP69	70.8	.7
BP70	71.8	.7
BP71	72.8	.7
BP72	73.8	.8
BP73	74.8	.8
BP74	75.8	.8
BP75	76.8	.8
BP76	77.8	.8
BP77	78.8	.8
BP78	79.8	.9
BP79	80.8	.9
BP80	81.8	.9
BP81	82.8	.9
BP82	83.8	.9
BP83	84.8	.9
BP84	85.8	.9
BP85	86.8	.9
BP86	87.8	.9
BP87	88.8	.9
BP88	89.8	1.0
BP89	90.8	1.0
BP90	91.8	1.0
BP91	92.8	1.0
BP92	93.8	1.0
BP93	93.8	1.0
BP94	94.8	1.0
BP95	96.8	1.0
BP96	97.8	1.0
BP97	98.8	1.1
BP98	99.8	1.1
BP99	100.8	1.1
BP100	101.8	1.1
BP103	104.8	1.1
BP105	106.8	1.1
BP106	107.8	1.1
BP108	109.8	1.2
BP112	113.8	1.2
BP116	117.8	1.3
BP118	119.8	1.3
BP120	121.8	1.3
BP123	124.8	1.3
BP124	125.8	1.3
BP126	127.8	1.4
BP128	129.8	1.4
BP130	131.8	1.4
BP133	134.8	1.4
BP136	137.8	1.5
BP140	141.8	1.5
BP144	145.8	1.6
BP148	149.8	1.6
BP150	151.8	1.6
BP154	155.8	1.7
BP158	159.8	1.7
BP162	163.8	1.8
BP173	174.8	1.9
BP180	181.8	2.0
BP191	192.8	2.1
BP195	196.8	2.1
BP210	211.8	2.3
BP225	225.3	2.4
BP240	240.3	2.6
BP255	255.3	2.8
BP270	270.3	2.9
BP285	285.3	3.1
BP300	300.3	3.2
BP315	315.3	3.4
BP360	360.3	3.9

AP & BP Belts — Outside Length Equals Datum Length + 1".

Interchange

Current Design	
Wood's All-Pro	
Model	Max Pitch
AP160M	6.25
AP160M (1922V Belt)	6.30
AP200N	7.87
AP225P	8.80
AP260T	10.20
AP260U	10.20
AP255W	10.00
AP255S	10.00
AP321W	12.75
AP322W	12.75
AP323W	12.75

Old Designs			
Wood's Pro		Gerbing Quadra-key	
Model	Max Pitch	Model	Max Pitch
160N	6.30		
200N	7.87		
		2303	8.80
		2305	8.80
240T	9.45	2905	10.25
		2907	10.25
		2910	10.25
250W	10.00		
250S	10.00		
		4410	12.75
		4411	12.75
300W	11.90	4415	12.75
		4416	12.75
		4420	12.75
		4421	12.75
320W	12.60	4425	12.75
		4426	12.75
		4430	12.75
		4431	12.75

Competitors					
Speed Selector		Lovejoy		Hi-Lo	
Model	Max Pitch	Model	Max Pitch	Model	Max Pitch
8816	6.30	2-010	5.80		
		21401	5.80		
7707	6.90				
8827	7.53	2-030	8.00		
		21903	8.03		
7709	8.80			1590	8.62
8859	9.25				
		2-050	9.70	1711	10.65
		22905	9.70		
		2-075	9.70		
		22907	9.70		
7710	10.20				
8810	10.20				
7711-2.75	10.10				
7711-2	10.10	2-1532	10.37	2011	10.65
8811-2	10.10	2-3215	10.35		
		23220	10.35		
		2-2032	10.37		
8813	12.60	24407	12.10		
		2-100	12.10		
		24410	12.10		
8823	12.60	2-150	12.10		
		2-4415	12.10		
		24420	12.10		
		2-200	12.10		
8833	12.60	2-250	12.10	2513	12.60
		2-4425	12.10		
		24430	12.10		
		2-300	12.10		
		24430HD	12.10		
		24433HD	12.10		

MS Sheave

Interchange

WOOD'S		EATON (WORTHINGTON)		LOVEJOY		RELIANCE (REEVES)		RELIANCE (DODGE)		SPEED SELECTOR	
Model No.	Max. Pitch	Model No.	Max. Pitch	Model No.	Max. Pitch	Model No.	Max. Pitch	Model No.	Max. Pitch	Model No.	Max. Pitch
MS-58	5.75	-	-	1-007 11407 2600	5.80 5.80 5.80	5675	5.11	14SL	5.63	816	6.30
MS-72	7.25	219S	6.75	1-015 11901	8.00 8.03	7202 97	6.72 7.25	19SL	7.38	707 827	6.90 7.53
MS-77	7.75	20 523S	7.75 9.00	-	-	98	7.75	23SL	9.00	709 859	8.75 9.25
MS-97	9.75	1029S	9.95	1-050 12905 1-075 12907	9.70 9.70 9.70 9.70	9205	9.00	-	-	-	-
MS-127 & MS-127W-HD	12.75	2044S 150	12.60 11.75	1-150 1-4415 3215 1-200 14420 3220 1-250 1-4425 14430 3225	12.10 12.10 11.50 12.10 12.10 11.50 12.10 12.10 12.10 11.50	1320 912-15 1330	12.46 11.75 12.46	44SLN 44SLU	12.36 12.36	711 821 833	10.90 11.60 12.60
MS-975-S	9.40	-	-	1-2032 13220	10.37 10.35	-	-	-	-	-	-
MS-100W	10.00	100	11.75	1-100 14410 3210	12.10 12.10 11.50	1110 912 77	10.77 11.75 13.75	44SLK	12.36	-	-

Interchange

WOOD'S			LOVEJOY			MAUREY			HI-LO		
Model No.	Belt	Max. Pitch	Model No.	Belt	Max. Pitch	Model No.	Belt	Max. Pitch	Model No.	Belt	Max. Pitch
VC30	A	3.35	3403	A	3.13	6325	A or B	3.00	-	-	-
VC40	A	4.00	4005	A	3.75	6400	A or B	3.90	-	-	-
			3405	A	3.13						
			5005A	A	4.75						
VC51	B	5.10	5010	B	4.65	6500	A or B	4.84	30TBR	A	3.13
			5010A	A	4.75				40TBR	A	4.00
			3407	A	3.13						
			4007	A	3.75						
VC57	B	5.75	6010	B	5.65	6600	B	5.84	50TBR	B	3.06
						66150	B	5.84			
			6020	B	5.65	66200	B	5.84	57-20TBR	B	3.06

ROTO-CONE SHEAVE INTERCHANGE

WOOD'S		LEWELLEN		LOVEJOY	
Model No.	Max. Pitch	Model No.	Max. Pitch	Model No.	Max. Pitch
RC55	5.25	-	-	245	5.80
RC60	5.75	-	-	-	-
RC75	7.25	408	7.50	301	7.28
RC80	7.75	409	8.75	3030	8.12
RC105	10.38	411	10.75	401	10.60
				402	10.40
				403	10.60
				303	9.60
RC100	9.75			3050	9.60
RC1315	12.75	412	11.68	3075	12.50
		412/15	11.68	3100	12.50
				3150	12.50
RC1330	12.75	-	-	-	-

VPS Sheave

Features

Wood's VPS stationary control adjustable speed sheaves have patented features which eliminate the need for lubrication and assure quick, easy speed adjustment. Exclusive, positive locking collar construction completely eliminates freezing and sticking caused by fretting corrosion.

These drives provide infinite, accurate speed adjustment within their pitch diameter ranges and are accurately balanced for smooth operation and long life.



All VPS sheaves can be easily adjusted by loosening the clamping screws and turning a single adjusting screw.

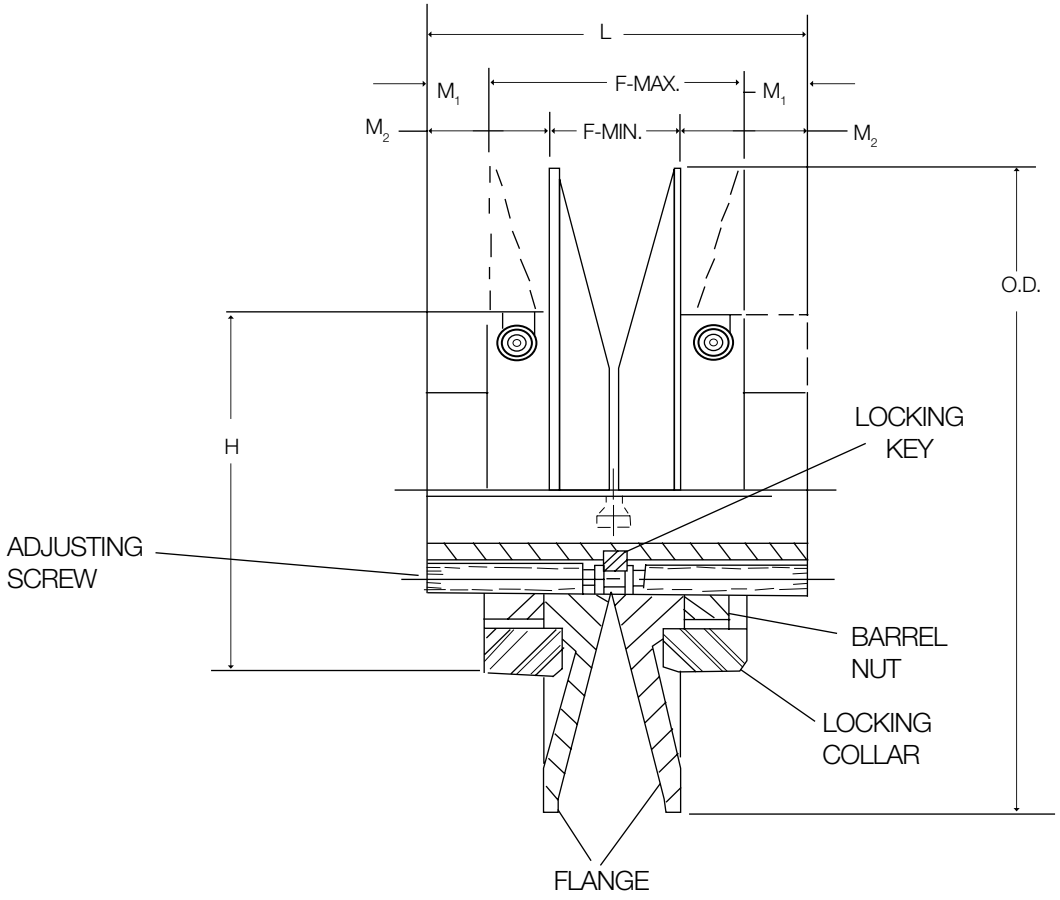
The table below lists the sizes of VPS sheaves available.

VPS SHEAVES AVAILABLE

Product No.	HP @ 1160	HP @ 1750	Drive Chart	Pitch Diameter Min.	Pitch Diameter Max.	Pitch Ratio	Belt Size	Stock Bores	Approx. Wt. (lbs.)
VPS7Q	5	7-1/2	NA	3.5	7.0	2:1	1930V	1-1/8	12.5
VPS9R	7-1/2	10	D1-46	4.25	9.0	2.1:1	2530V	1-3/8, 1-5/8	23.5
VPS10R	10	15	D1-46	5.25	10.0	1.9:1	2530V	1-1/4, 1-3/8, 1-5/8	27.5
VPS10W	15	20	D1-47	5.0	10.0	2:1	4430V	1-1/4, 1-3/8, 1-1/2, 1-5/8, 1-7/8	30.0
VPS129W	20	25	D1-48	4.3	12.9	3:1	4430V	1-5/8, 1-7/8	39.0
VPS13Y	30	40	D1-48	6.38	12.75	2:1	4836V	1-7/8, 2-1/8	51.0

Product No. Example: VPS9R sheave with 1-3/8 bore = VPS9R138 (Product No.)

Dimensions



Product No.	O.D.	Max. Bore	F Min.	F Max.	M_1	M_2	L	H
VPS7Q	7.25	1-3/8	1-7/16	2-3/8	13/16	1-9/32	4	4-1/8
VPS9R	9.25	1-7/8	1-13/16	3-3/32	57/64	1-17/32	4-7/8	5
VPS10R	10.25	1-7/8	1-13/16	3-3/32	57/64	1-17/32	4-7/8	5
VPS10W	10.25	1-7/8	3	4-11/32	53/64	1-1/2	6	5
VPS129W	13.00	1-7/8	2-31/32	5-1/4	7/8	2-1/64	7	5
VPS13Y	13.00	2-3/8	3.34	5.40	.80	1.83	7	5-1/2

Selection Charts

VPS-9-R DRIVE SELECTION
Using 2530V Belt

DRIVEN SPEED		Product Number	Companion Sheave	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS												
				VARIABLE SPEED V-BELT NUMBER												
1750 RPM Motor	1160 RPM Motor			2530V 531	2530V 550	2530V 595	2530V 630	2530V 670	2530V 690	2530V 730	2530V 750	2530V 790	2530V 890	2530V 990	2530V 1090	2530V 1190
1969	**1305**	**801R**	8.0 x 1R-SF	11.2	14.2	16.5	18.3	20.3	21.2	23.3	24.3	26.2	31.2	36.2	41.2	45.0
930	**616**			14.8	17.8	20.2	21.9	23.9	24.8	26.9	27.9	29.9	34.9	39.9	44.9	48.7
1575	**1044**	**1001R**	10.0 x 1R-SF	-	12.6	15.0	16.7	18.7	19.6	21.7	22.7	24.6	29.6	34.6	39.6	43.5
744	**493**			-	16.1	18.5	20.2	22.3	23.2	25.3	26.3	28.2	33.2	38.2	43.2	47.1
1313	**870**	**1201R**	12.0 x 1R-SF	-	-	13.3	15.1	17.1	18.0	20.1	21.1	23.0	28.0	33.0	38.0	41.9
620	**411**			-	-	16.7	18.5	20.5	21.4	23.6	24.6	26.5	31.5	36.6	41.6	45.5
1212	**803**	**1301R**	13.0 x 1R-SF	-	-	12.4	14.2	16.2	17.1	19.3	20.3	22.2	27.2	32.2	37.2	41.1
572	**379**			-	-	15.7	17.5	19.6	20.5	22.7	23.7	25.6	30.7	35.7	40.8	44.6
1125	**746**	**1401R**	14.0 x 1R-SF	-	-	-	13.3	15.4	16.3	18.4	19.4	21.3	26.4	31.4	36.4	40.2
531	**352**			-	-	-	16.6	18.7	19.6	21.8	22.8	24.7	29.8	34.9	39.9	43.8
984	**653**	**1601R**	16.0 x 1R-SF	-	-	-	-	13.5	14.5	16.6	17.7	19.6	24.7	29.7	34.7	38.6
465	**308**			-	-	-	-	16.7	17.7	19.9	20.9	22.9	28.0	33.1	38.2	42.1

VPS-10-R DRIVE SELECTION
Using 2530V Belt

DRIVEN SPEED		Product Number	Companion Sheave	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS												
				VARIABLE SPEED V-BELT NUMBER												
1750 RPM Motor	1160 RPM Motor			2530V 531	2530V 550	2530V 595	2530V 630	2530V 670	2530V 690	2530V 730	2530V 750	2530V 790	2530V 890	2530V 990	2530V 1090	2530V 1190
2188	**1450**	**801R**	8.0 x 1R-SF	10.4	13.4	15.7	17.5	19.5	20.4	22.5	23.5	25.4	30.4	35.4	40.4	44.2
1148	**761**			14.1	17.1	19.4	21.2	23.2	24.1	26.2	27.2	29.1	34.1	39.1	44.1	48.0
1750	**1160**	**1001R**	10.0 x 1R-SF	-	11.8	14.2	15.9	17.9	18.8	20.9	21.9	23.8	28.8	33.8	38.8	42.7
919	**609**			-	15.4	17.7	19.5	21.5	22.4	24.5	25.5	27.5	32.5	37.5	42.5	46.3
1458	**967**	**1201R**	12.0 x 1R-SF	-	-	12.6	14.3	16.3	17.2	19.3	20.3	22.2	27.2	32.2	37.2	41.1
766	**508**			-	-	16.0	17.8	19.8	20.7	22.8	23.8	25.8	30.8	35.8	40.9	44.7
1346	**892**	**1301R**	13.0 x 1R-SF	-	-	-	13.5	15.5	16.4	18.5	19.5	21.4	26.4	31.4	36.4	40.3
707	**468**			-	-	-	16.9	18.9	19.8	22.0	23.0	24.9	30.0	35.0	40.0	43.9
1250	**828**	**1401R**	14.0x 1R-SF	-	-	-	-	14.6	15.6	17.7	18.7	20.6	25.6	30.6	35.6	39.5
656	**435**			-	-	-	-	18.0	18.9	21.1	22.1	24.0	29.1	34.1	39.2	43.0
1094	**725**	**1601R**	16.0 x 1R-SF	-	-	-	-	-	-	15.9	17.0	18.9	23.9	29.0	34.0	37.8
574	**381**			-	-	-	-	-	-	19.2	20.2	22.2	27.3	32.4	37.5	41.3

Refer to Table on page D1–53 for additional belts.

VPS-10-W DRIVE SELECTION
Using 4430V Belt

DRIVEN SPEED		Product Number	Companion Sheave	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS													
				VARIABLE SPEED V-BELT NUMBER													
1750 RPM Motor	1160 RPM Motor			4430V 555	4430V 578	4430V 610	4430V 630	4430V 660	4430V 690	4430V 730	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320	4430V 1610
2188	1450	**801W**	8.0 x 1W-SF	13.5	14.7	16.2	17.2	18.7	20.2	22.2	25.2	28.2	31.2	34.2	40.2	51.7	65.5
1094	725			17.4	18.6	20.1	21.1	22.6	24.1	26.1	29.1	32.1	35.1	38.1	44.1	55.6	69.5
2059	1365	**851W**	8.5 x 1W-SF	13.1	14.3	15.8	16.8	18.3	19.8	21.8	24.8	27.8	30.8	33.8	39.8	51.3	65.2
1029	682			16.9	18.2	19.7	20.7	22.2	23.7	25.7	28.7	31.7	34.7	37.7	43.7	55.2	69.1
1944	1289	**901W**	9.0 x 1W-SF	12.7	13.9	15.4	16.4	17.9	19.4	21.4	24.4	27.4	30.4	33.5	39.5	51.0	65.0
972	644			16.5	17.8	19.3	20.3	21.8	23.3	25.3	28.3	31.3	34.3	37.3	43.3	54.8	68.7
1842	1221	**951W**	9.5 x 1W-SF	12.3	13.6	15.1	16.1	17.6	19.1	21.0	24.0	27.0	30.1	33.1	39.1	50.6	64.5
921	611			16.1	17.3	18.9	19.9	21.4	22.9	24.9	27.9	30.9	33.9	36.9	42.9	54.4	68.2
1750	1160	**1001W**	10.0 x 1W-SF	11.9	13.2	14.7	15.7	17.2	18.7	20.7	23.7	26.7	29.7	32.7	38.7	50.2	64.0
875	580			15.6	16.9	18.4	19.4	20.9	22.5	24.5	27.5	30.5	33.5	36.5	42.5	54.0	67.8
1591	1054	**1101W**	11.0 x 1W-SF	-	12.4	13.9	14.9	16.4	17.9	19.9	22.9	25.9	28.9	31.9	37.9	49.4	63.2
795	527			-	16.0	17.6	18.6	20.1	21.6	23.6	26.6	29.7	32.7	35.7	41.7	53.2	66.9
1458	967	**1201W**	12.0 x 1W-SF	-	-	13.1	14.1	15.6	17.1	19.1	22.1	25.1	28.1	31.1	37.1	48.6	62.4
729	483			-	-	16.7	17.7	19.2	20.7	22.7	25.8	28.8	31.8	34.8	40.9	52.4	66.2
1346	892	**1301W**	13.0 x 1W-SF	-	-	-	13.2	14.7	16.2	18.2	21.2	24.3	27.3	30.3	36.3	47.8	61.6
673	446			-	-	-	16.8	18.3	19.8	21.9	24.9	28.0	31.0	34.0	40.0	51.6	65.4
1250	828	**1401W**	14.0 x 1W-SF	-	-	-	-	13.9	15.4	17.4	20.4	23.4	26.5	29.5	35.5	47.0	60.8
625	414			-	-	-	-	17.3	18.9	21.0	24.0	27.1	30.1	33.2	39.2	50.8	64.6
1167	773	**1501W**	15.0 x 1W-SF	-	-	-	-	-	14.5	16.5	19.6	22.6	25.6	28.6	34.7	46.2	60.0
583	387			-	-	-	-	-	18.0	20.0	23.1	26.2	29.2	32.3	38.3	49.9	63.8
1094	725	**1601W**	16.0 x 1W-SF	-	-	-	-	-	-	15.7	18.7	21.7	24.8	27.8	33.8	45.4	59.2
547	363			-	-	-	-	-	-	19.1	22.2	25.3	28.3	31.4	37.5	49.1	63.0
972	644	**1801W**	18.0 x 1W-SF	-	-	-	-	-	-	-	16.9	20.0	23.0	26.1	32.1	43.7	57.7
486	322			-	-	-	-	-	-	-	19.2	24.4	26.5	29.6	35.7	47.4	61.3
875	580	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	-	-	18.1	21.2	24.3	30.4	42.0	55.7
438	290			-	-	-	-	-	-	-	-	21.4	24.6	27.7	33.9	45.6	59.4
795	527	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	-	17.2	19.3	22.4	28.6	40.3	53.6
398	264			-	-	-	-	-	-	-	-	19.3	22.6	25.8	32.0	43.9	58.0
729	483	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	20.5	26.8	38.5	52.5
365	242			-	-	-	-	-	-	-	-	-	-	23.7	30.1	42.0	56.3

Refer to Table on page D1–53 for additional belts.

Selection Charts

VPS-129-W DRIVE SELECTION
Using 4430V Belt

DRIVEN SPEED		Product Number	Companion Sheave	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS															
1750 RPM Motor	1160 RPM Motor			VARIABLE SPEED V-BELT NUMBER															
				4430V 478	4430V 610	4430V 630	4430V 660	4430V 670	4430V 690	4430V 700	4430V 730	4430V 740	4430V 790	4430V 850	4430V 910	4430V 970	4430V 1090	4430V 1320	4430V 1610
2822	1871	**801W**	8.0 x 1W-SF	13.1	14.1	15.0	16.6	17.1	18.1	18.7	20.2	20.6	23.2	26.2	29.2	32.3	38.4	50.0	63.5
942	624			19.4	20.9	21.9	23.5	23.9	24.9	25.4	26.9	27.5	30.0	33.0	36.0	39.0	45.0	56.5	70.0
2652	1759	**851W**	8.5 x 1W-SF	12.1	13.8	14.6	16.1	16.8	17.8	18.3	19.8	20.4	22.8	25.8	28.8	31.9	37.9	49.5	63.0
884	586			18.8	20.4	21.4	22.8	23.4	24.4	24.9	26.4	26.9	29.5	32.5	35.5	38.6	44.6	56.0	69.6
2500	1658	**901W**	9.0 x 1W-SF	11.6	13.5	14.3	15.8	16.4	17.4	17.8	19.3	19.9	22.4	25.4	28.4	31.5	37.5	49.0	62.5
838	555			18.5	19.9	21.0	22.5	23.0	24.1	24.5	26.0	26.5	29.0	32.0	35.0	38.1	44.1	55.6	69.1
2364	1568	**951W**	9.5 x 1W-SF	-	13.0	14.0	15.5	16.0	17.0	17.4	18.9	19.6	21.9	25.0	28.0	31.0	37.0	48.5	62.0
792	525			-	19.5	20.6	22.1	22.6	23.6	24.1	25.6	26.1	28.7	31.7	34.7	37.7	43.7	55.2	68.7
2243	1488	**1001W**	10.0 x 1W-SF	-	12.5	13.5	15.0	15.5	16.5	17.0	18.6	19.0	21.6	24.6	27.6	30.6	36.6	48.2	61.7
752	498			-	19.2	20.2	21.7	22.2	23.2	23.7	25.3	25.6	28.3	31.3	34.3	37.3	43.3	54.8	68.3
2060	1365	**1101W**	11.0 x 1W-SF	-	-	12.8	14.2	14.8	15.7	16.4	17.9	18.3	20.9	24.0	27.0	30.0	35.9	47.4	60.9
684	453			-	-	19.3	20.8	21.4	22.4	22.9	24.4	25.0	27.4	30.4	33.4	36.4	42.4	54.0	67.5
1882	1249	**1201W**	12.0 x 1W-SF	-	-	-	13.5	14.1	15.0	15.6	17.1	17.4	20.1	23.1	26.1	29.1	35.2	46.7	60.2
628	416			-	-	-	19.9	20.5	21.4	22.0	23.6	24.0	26.6	29.6	32.8	35.6	41.6	53.2	66.7
1733	1149	**1301W**	13.0 x 1W-SF	-	-	-	-	-	14.4	14.8	16.3	16.8	19.3	22.3	25.3	28.3	34.4	45.9	59.4
578	383			-	-	-	-	-	20.6	21.1	22.6	23.2	25.6	28.6	31.7	34.7	40.8	52.4	65.9
1607	1065	**1401W**	14.0 x 1W-SF	-	-	-	-	-	-	-	15.6	15.7	18.6	21.6	24.6	27.6	33.6	45.2	58.7
537	356			-	-	-	-	-	-	-	21.7	22.3	24.8	27.8	30.8	33.8	40.0	51.6	65.2
1509	1000	**1501W**	15.0 x 1W-SF	-	-	-	-	-	-	-	-	15.3	17.7	20.7	23.7	26.7	32.7	44.2	57.7
502	332			-	-	-	-	-	-	-	-	21.3	23.9	26.9	29.9	32.9	39.1	50.7	64.3
1411	935	**1601W**	16.0 x 1W-SF	-	-	-	-	-	-	-	-	-	16.8	19.8	22.8	25.8	31.8	43.3	56.6
470	312			-	-	-	-	-	-	-	-	-	22.9	26.0	29.1	32.2	38.3	49.9	63.4
1259	835	**1801W**	18.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	18.1	21.1	24.2	30.2	41.8	55.3
419	277			-	-	-	-	-	-	-	-	-	-	24.2	27.2	30.3	36.5	48.2	61.8
1129	748	**2001W**	20.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	-	19.4	22.4	28.5	40.7	53.7
376	250			-	-	-	-	-	-	-	-	-	-	-	25.4	28.4	34.6	46.4	60.0
1030	683	**2201W**	22.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	-	-	20.8	26.9	38.6	52.2
342	227			-	-	-	-	-	-	-	-	-	-	-	-	26.5	32.8	44.6	58.2
941	624	**2401W**	24.0 x 1W-SF	-	-	-	-	-	-	-	-	-	-	-	-	-	25.1	36.9	50.5
314	208			-	-	-	-	-	-	-	-	-	-	-	-	-	31.2	42.8	56.4
806	534	**2801W**	28.0 x 1W-SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.0	47.8
269	178			-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.9	53.8

VPS-13-Y DRIVE SELECTION
Using 4836V Belt

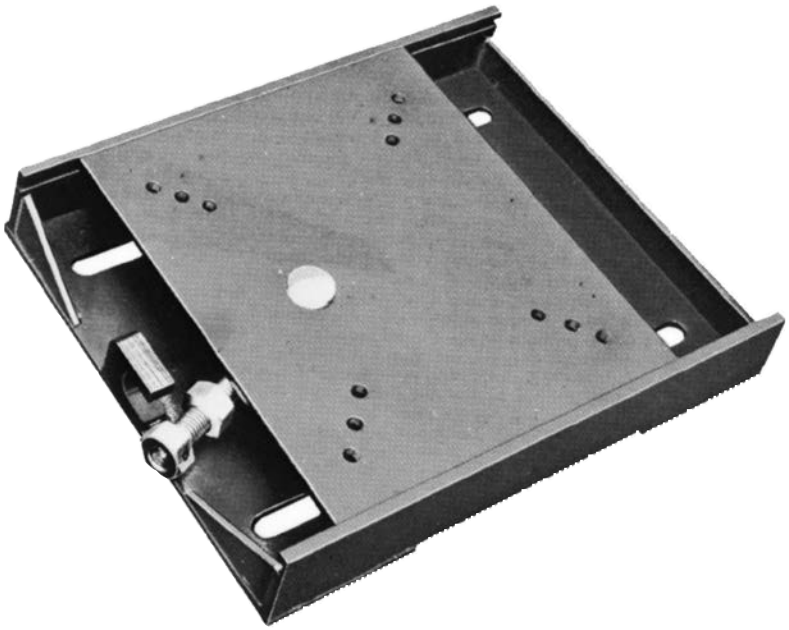
DRIVEN SPEED		Product Number	Companion Sheave	CENTER DISTANCE IN INCHES AT MAXIMUM AND MINIMUM SPEEDS										
1750 RPM Motor	1160 RPM Motor			VARIABLE SPEED V-BELT NUMBER										
				4836V 670	4836V 710	4836V 800	4836V 850	4836V 900	4836V 950	4836V 1000	4836V 1060	4836V 1120	4836V 1180	4836V 1250
2231	1479	**1001Y**	10.0 x 1Y-F	15.6	17.6	22.1	24.6	27.1	29.6	32.1	35.1	38.1	41.1	44.6
1117	740			20.6	22.6	27.1	29.6	32.1	34.6	37.1	40.1	43.1	46.1	49.6
2028	1345	**1101Y**	11.0 x 1Y-F	14.8	16.8	21.3	23.8	26.3	28.8	31.3	34.3	37.3	40.3	43.8
1015	673			19.7	21.7	26.3	28.8	31.3	33.8	36.3	39.3	42.3	5.3	48.8
1859	1233	**1201Y**	12.0 x 1Y-F	14.1	16.1	20.6	23.1	25.6	28.1	30.6	33.6	36.6	39.6	43.1
930	617			18.9	20.9	25.4	27.9	30.4	33.0	35.5	38.5	41.5	44.5	48.0
1594	1056	**1401Y**	14.0 x 1Y-F	-	14.5	19.0	21.5	24.0	26.5	29.0	32.0	35.0	38.0	41.5
798	529			-	19.1	23.7	26.2	28.7	31.3	33.8	36.8	39.8	42.8	46.3
1395	924	**1601Y**	16.0 x 1Y-F	-	-	17.3	19.9	22.4	24.9	27.4	30.4	33.4	36.4	39.9
698	463			-	-	21.9	24.5	27.0	29.5	32.1	35.1	38.1	41.1	44.7
1240	822	**1801Y**	18.0 x 1Y-F	-	-	-	18.2	20.7	23.2	25.7	28.7	31.8	34.8	38.3
620	411			-	-	-	22.6	25.2	27.8	30.3	33.4	36.4	39.4	43.0
1116	740	**2001Y**	20.0 x 1Y-F	-	-	-	-	18.9	21.5	24.0	27.0	30.1	33.1	36.6
558	370			-	-	-	-	23.3	25.9	28.5	31.5	34.6	37.7	41.2
930	616	**2401Y**	24.0 x 1Y-F	-	-	-	-	-	-	20.4	23.5	26.6	29.6	33.2
465	308			-	-	-	-	-	-	24.6	27.7	30.9	34.0	37.6
744	493	**3001Y**	30.0 x 1Y-F	-	-	-	-	-	-	-	-	-	23.9	27.6
372	247			-	-	-	-	-	-	-	-	-	28.0	31.8

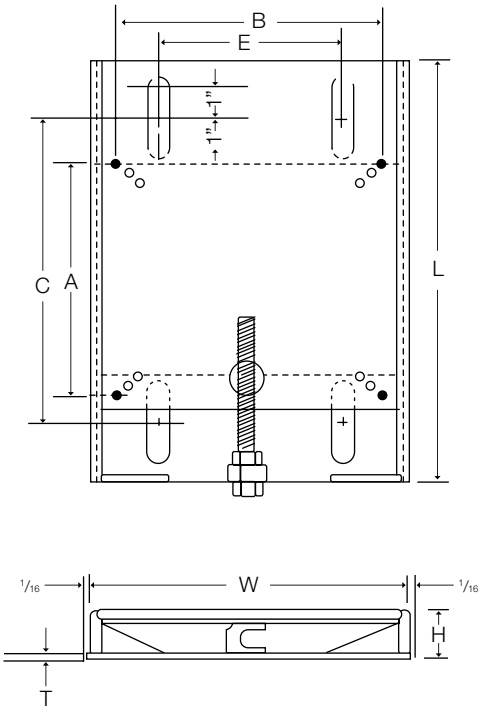
Refer to Table on page D1–53 for additional belts.

Dimensions

Wood's QS "Quick-Slide" Motor Bases are of heavy-duty welded steel construction. A unique feature of the QS Motor Base is the provision for releasing the adjusting screw, permitting the motor to be moved freely and quickly. Its slender construction makes it suitable for applications where space is at a premium.

For ceiling mounting, use MBA base, page D1–50.





Product No.	NEMA Motor Frame Number	DIMENSIONS–INCHES								Amount of Movement, inches	No. & Size of Cap Screws for Motor, inches	No. & Size of Floor Bolts,* inches	Wt. Lbs.
		A	B	C	E	H	L	T	W				
QS1A	143	5-1/2	4	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-5/16	4-5/8	17.5
QS1B	145	5-1/2	5	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-5/16	4-5/8	17.5
QS1A	182	7-1/2	4-1/2	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-3/8	4-5/8	17.5
QS1B	184	7-1/2	5-1/2	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-3/8	4-5/8	17.5
QS1A	213	8-1/2	5-1/2	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-3/8	4-5/8	17.5
QS1B	215	8-1/2	7	9-5/8	6-1/8	1-5/8	14	1/4	10-3/8	4-1/2	4-3/8	4-5/8	17.5
QS2A	254	10	8-1/4	12-3/8	9	1-21/32	16-3/4	1/4	13-1/4	6	4-1/2	4-5/8	30.5
QS2A	256	10	10	12-3/8	9	1-21/32	16-3/4	1/4	13-1/4	6	4-1/2	4-5/8	30.5
QS2A	284	11	9-1/2	12-3/8	9	1-21/32	16-3/4	1/4	13-1/4	6	4-1/2	4-5/8	30.5
QS3A	286	11	11	15-1/8	12	1-21/32	19-1/2	1/4	16-1/4	6	4-1/2	4-5/8	42.0
QS3A	324	12-1/2	10-1/2	15-1/8	12	1-21/32	19-1/2	1/4	16-1/4	6	4-5/8	4-5/8	42.0
QS3B	326	12-1/2	12	15-1/8	12	1-21/32	19-1/2	1/4	16-1/4	6	4-5/8	4-5/8	43.5
QS3B	364	14	11-1/4	15-1/8	12	1-21/32	19-1/2	1/4	16-1/4	6	4-5/8	4-5/8	43.5
QS3A	365	14	12-1/4	15-1/8	12	1-21/32	19-1/2	1/4	16-1/4	6	4-5/8	4-5/8	42.0

*Floor bolts not furnished

MBA Motor Bases

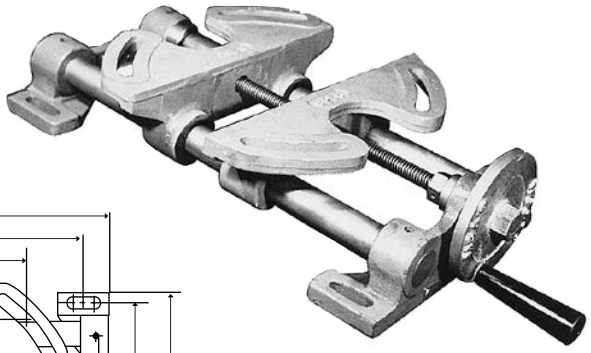
Dimensions

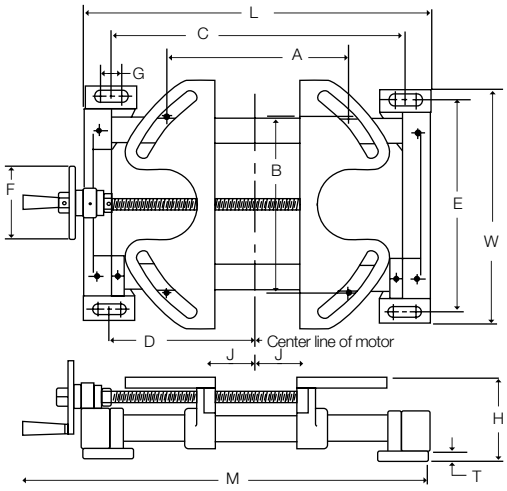
Wood's MBA Motor Bases feature heavy-duty cast iron construction for use with all types of variable speed drives. The base can be mounted in any position, and will accommodate NEMA motor frames 48 through 405. For applications requiring an angled motor base, the MBA base is designed to permit up to a 12° angle.

MBA MOTOR BASE DIMENSIONS

PRODUCT NO.	NEMA MOTOR FRAME NO.	ALL DIMENSIONS - INCHES												
		A	B	C	D	E	F	G	H	L	M	T	W	J TRAVEL EACH WAY
MB5*	48	4-1/4	2-3/4	16	8	7-5/8	2-13/16	13/16	3-3/8	18	20-1/2	9/16	9-1/2	4-15/16
	56	4-7/8	3	16	8	7-5/8	2-13/16	13/16	3-3/8	18	20-1/2	9/16	9-1/2	4-5/8
	143	5-1/2	4	16	8	7-5/8	2-13/16	13/16	3-3/8	18	20-1/2	9/16	9-1/2	4-5/16
	145	5-1/2	5	16	8	7-5/8	2-13/16	13/16	3-3/8	18	20-1/2	9/16	9-1/2	4-5/16
MBA15	143	5-1/2	4	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	5-3/4
	145	5-1/2	5	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	5-1/2
	182	7-1/2	4-1/2	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	4-5/8
	184	7-1/2	5-1/2	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	4-3/8
	213	8-1/2	5-1/2	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	3-7/8
	215	8-1/2	7	15	7-1/2	9-5/16	2-13/16	1-1/4	3-3/8	17-1/2	21	7/16	10-1/2	3-1/4
MBA25	254	10	8-1/4	18-3/8	9-3/16	13-9/16	5	1-1/2	5	25	30-5/16	7/8	15	6-1/4
	256	10	10	18-3/8	9-3/16	13-9/16	5	1-1/2	5	25	30-5/16	7/8	15	5-9/16
	284	11	9-1/2	18-3/8	9-3/16	13-9/16	5	1-1/2	5	25	30-5/16	7/8	15	5-1/4
	286	11	11	18-3/8	9-3/16	13-9/16	5	1-1/2	5	25	30-5/16	7/8	15	4-9/16
MBA30	324	12-1/2	10-1/2	20-1/4	10-1/8	14-1/2	5	1-1/2	5-11/16	23-7/8	28-5/8	3/4	16	4-9/16
	326	12-1/2	12	20-1/4	10-1/8	14-1/2	5	1-1/2	5-11/16	23-7/8	28-5/8	3/4	16	4
	364	14	11-1/4	20-1/4	10-1/8	14-1/2	5	1-1/2	5-11/16	23-7/8	28-5/8	3/4	16	3-1/2
	365	14	12-1/4	20-1/4	10-1/8	14-1/2	5	1-1/2	5-11/16	23-7/8	28-5/8	3/4	16	3-1/16
MB40*	404	16	12-1/4	24-1/2	12-1/4	17-1/2	6-3/4	1-1/2	6-1/2	28	33	7/8	19-3/16	4-5/16
	405	16	13-3/4	24-1/2	12-1/4	17-1/2	6-3/4	1-1/2	6-1/2	28	33	7/8	19-3/16	4-5/16

PRODUCT NO.	NEMA MOTOR FRAME NO.	SIZE OF 4 MOTOR CAPSCR.†	SIZE OF 4 FLOOR BOLTS†	WT. (LBS.)
MB5*	48	5/16	3/8	30
	56	5/16	3/8	30
	143	5/16	3/8	30
	145	5/16	3/8	30
MBA15	143	5/16	3/8	32
	145	5/16	3/8	32
	182	3/8	3/8	32
	184	3/8	3/8	32
	213	3/8	3/8	32
	215	3/8	3/8	32
MBA25	254	1/2	5/8	105
	256	1/2	5/8	105
	284	1/2	5/8	105
	286	1/2	5/8	105
MBA30	324	5/8	5/8	115
	326	5/8	5/8	115
	364	5/8	5/8	115
	365	5/8	5/8	115
MB40*	404	3/4	5/8	200
	405	3/4	5/8	200



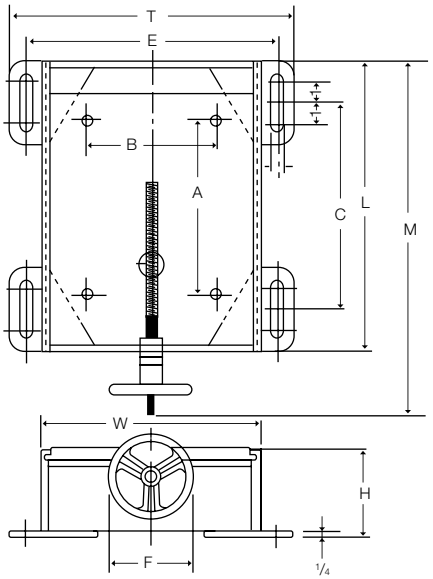


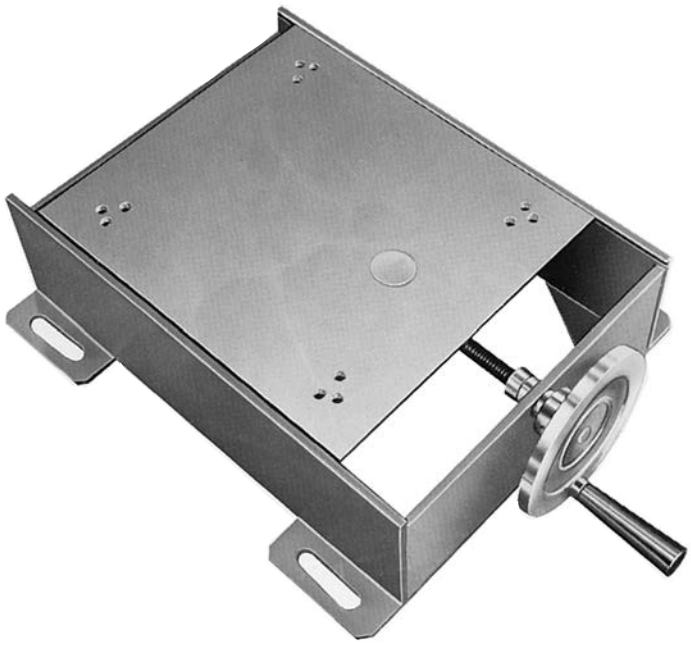
† Cap screw & bolts not furnished.
* The MB5 & MB40 are not designed for angle mounting.

Dimensions

Wood's MC Motor Bases are of heavy duty welded steel construction. This base is equipped with a hand-wheel for maximum ease of adjustment. For applications requiring an angled Motor Base, the motor base must be ordered with the drilling at the proper angle. Refer to page D1—22 for information on how to determine the proper angle for mounting the Motor Base.

This base is designed for floor mounting only. For ceiling mounting, use MBA base, page D1—50.





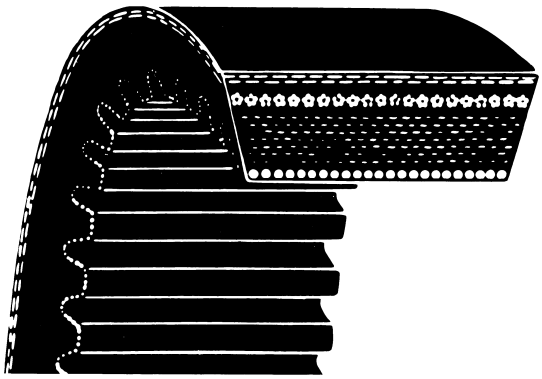
DO NOT use the MC-3 motor base for applications with MCS sheaves. For these applications use MBA motor base.

Motion Control Base Number	NEMA Motor Frame Number	DIMENSIONS – INCHES										Amount of Movement, Inches	No. & Size of Cap Screws for Motor, Inches	No. & Size of Floor Bolts,* Inches	Wt. Lbs.
		A	B	C	E	F	H	L	M	T	W				
MC-1A	143	5-1/2	4	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-5/16	4-5/8	25
MC-1B	145	5-1/2	5	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-5/16	4-5/8	25
MC-1A	182	7-1/2	4-1/2	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-3/8	4-5/8	25
MC-1B	184	7-1/2	5-1/2	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-3/8	4-5/8	25
MC-1A	213	8-1/2	5-1/2	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-3/8	4-5/8	25
MC-1B	215	8-1/2	7	9-1/2	12	4	4-1/4	14	17-5/8	13-1/2	10-3/8	6	4-3/8	4-5/8	25
MC-2A	254	10	8-1/4	13-3/4	15-1/8	6	5-9/32	18-1/4	24	16-5/8	13-1/4	8	4-1/2	4-5/8	50
MC-2A	256	10	10	13-3/4	15-1/8	6	5-9/32	18-1/4	24	16-5/8	13-1/4	8	4-1/2	4-5/8	50
MC-2A	284	11	9-1/2	13-3/4	15-1/8	6	5-9/32	18-1/4	24	16-5/8	13-1/4	8	4-1/2	4-5/8	50
MC-3A	286	11	11	20	18-1/8	6	5-9/32	24-1/2	30-1/4	19-5/8	16-1/4	10	4-1/2	4-5/8	66
MC-3A	324	12-1/2	10-1/2	20	18-1/8	6	5-9/32	24-1/2	30-1/4	19-5/8	16-1/4	10	4-5/8	4-5/8	66
MC-3B	326	12-1/2	12	20	18-1/8	6	5-9/32	24-1/2	30-1/4	19-5/8	16-1/4	10	4-5/8	4-5/8	66
MC-3B	364	14	11-1/4	20	18-1/8	6	5-9/32	24-1/2	30-1/4	19-5/8	16-1/4	10	4-5/8	4-5/8	66
MC-3A	365	14	12-1/4	20	18-1/8	6	5-9/32	24-1/2	30-1/4	19-5/8	16-1/4	10	4-5/8	4-5/8	66

*Floor bolts not furnished.

Variable Speed Belts

Dimensions

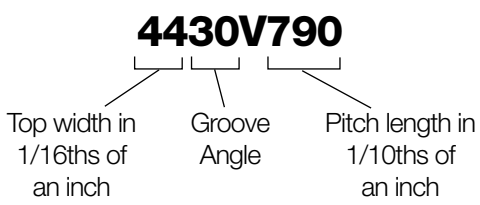


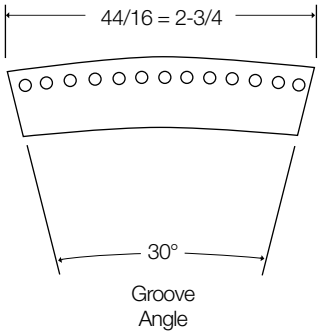
All Wood's Variable Speed Belts are precision molded to assure a completely uniform cross section. This allows even tracking and smooth running, without any vibration problems, extending the life of the belt, bearings, sheaves and other drive components.

These belts are built thin with precision, uniform notches on the underside for maximum lengthwise flexibility. Therefore, they can be used on small pulley drives without sacrificing any gripping action or cross-rigidity. Because of their arched construction, Variable Speed Belts have amazing crosswise rigidity that resists distortion under speed change tensions.

The aramid fiber tensile members of the Variable Speed Belts are dimensionally stable, therefore extending belt life. The rubber used in these belts is especially compounded for a strong resistance to the harmful, belt-damaging effects of heat and oil. Also, they are static conducting.

BELT CODE EXPLANATION





1422 V Belts [M]

Belt No.	Pitch Length	Wt.
*1422V235	23.5	.29
*1422V240	24.0	.29
*1422V270	27.0	.32
*1422V290	29.0	.35
*1422V300	30.0	.36
*1422V330	33.0	.39
*1422V340	34.0	.40
*1422V360	36.0	.43
*1422V400	40.0	.47
*1422V420	42.0	.50
*1422V440	44.0	.52
*1422V460	46.0	.55
*1422V466	46.6	.55
*1422V470	47.0	.55
*1422V480	48.0	.57
*1422V540	54.0	.64
*1422V600	60.0	.72
*1422V660	66.0	.75
*1422V720	72.0	.82
*1422V780	78.0	.89

1922 V Belts [N]

Belt No.	Pitch Length	Wt.
1922V256	25.6	.48
1922V277	27.7	.52
1922V282	28.2	.53
1922V298	29.8	.56
1922V302	30.2	.57
1922V321	32.1	.60
1922V332	33.2	.62
1922V338	33.8	.63
1922V363	36.3	.68
1922V381	38.1	.71
1922V386	38.6	.72
1922V403	40.3	.75
1922V417	41.7	.78
1922V426	42.6	.79
1922V443	44.3	.83
1922V454	45.4	.85
1922V460	46.0	.86
1922V484	48.4	.90
1922V526	52.6	.98
*1922V544	54.4	1.01

1922 V Belts [N]

Belt No.	Pitch Length	Wt.
*1922V604	60.4	1.12
*1922V630	63.0	1.17
*1922V646	64.6	1.20
*1922V666	66.6	1.23
*1922V686	68.6	1.37
*1922V706	70.6	1.40
*1922V721	72.1	1.33
*1922V726	72.6	1.44
*1922V751	75.1	1.39
*1922V756	75.6	1.40
*1922V806	80.6	1.60
*1922V846	84.6	1.68
*1922V891	89.1	1.77
*1922V966	96.6	1.92
*1922V1146	114.6	2.27

*These sizes are machine cut notch with envelope construction.
All others are molded notch, rubber edge construction.

Dimensions

1930 V Belts [Q]

Product No.	Pitch Length	Weight
1930V366	36.6	.86
1930V400	40.0	.93
1930V425	42.5	.99
1930V431	43.1	1.00
1930V450	45.0	1.05
1930V491	49.1	1.14
1930V500	50.0	1.16
1930V541	54.1	1.25
1930V560	56.0	1.30
1930V591	59.1	1.37
1930V600	60.0	1.39
1930V641	64.1	1.48
1930V691	69.1	1.60
1930V991	99.1	2.28
1930V1091	109.1	2.51

2322 V Belts [P]

Product No.	Pitch Length	Weight
2322V329	32.9	1.08
2322V347	34.7	1.14
2322V364	36.4	1.08
2322V384	38.4	1.14
2322V396	39.6	1.17
2322V421	42.1	1.24
2322V434	43.4	1.28
2322V441	44.1	1.30
2322V461	46.1	1.36
2322V481	48.1	1.42
2322V521	52.1	1.53
2322V541	54.1	1.59
2322V601	60.1	1.76
2322V621	62.1	1.82
2322V661	66.1	1.94
2322V681	68.1	2.00
2322V701	70.1	2.05
2322V721	72.1	2.11
2322V801	80.1	2.34
2322V826	82.6	2.42
2322V846	84.6	2.47
2322V886	88.6	2.59
*2322V921	92.1	2.71
*2322V1001	100.1	2.94
*2322V1061	106.1	3.12

*These sizes are machine cut notch with envelope construction. All others are molded notch, rubber edge construction.

2530 V Belts [R]

Product No.	Pitch Length	Weight
2530V300	30.0	.84
2530V335	33.5	1.24
2530V490	49.0	2.01
2530V500	50.0	2.07
2530V530	53.0	2.17
2530V550	55.0	2.25
2530V575	57.5	2.35
2530V595	59.5	2.43
2530V600	60.0	2.45

2530 V Belts [R] (Continued)

Product No.	Pitch Length	Weight
2530V610	61.0	2.49
2530V630	63.0	2.57
2530V660	66.0	2.67
2530V670	67.0	2.73
2530V690	69.0	2.82
2530V700	70.0	2.86
2530V730	73.0	2.98
2530V750	75.0	3.06
2530V790	79.0	3.22
2530V840	84.0	3.42
2530V850	85.0	3.46
2530V890	89.0	3.62
2530V934	93.4	3.81
2530V990	99.0	4.02
2530V1090	109.0	4.42
2530V1190	119.0	4.83

2926 V Belts [T]

Product No.	Pitch Length	Weight
2926V366	36.6	1.47
2926V400	40.0	1.60
2926V426	42.6	1.70
2926V471	47.1	1.88
2926V477	47.7	1.90
2926V486	48.6	1.93
2926V491	49.1	1.95
2926V521	52.1	2.07
2926V534	53.4	2.12
2926V546	54.6	2.17
2926V574	57.4	2.28
2926V586	58.6	2.32
2926V606	60.6	2.40
2926V616	61.6	2.44
2926V636	63.6	2.52
2926V646	64.6	2.56
2926V666	66.6	2.64
2926V686	68.6	2.72
2926V706	70.6	2.80
2926V726	72.6	2.87
2926V776	77.6	3.07
2926V786	78.6	3.11
2926V834	83.4	3.29
2926V856	85.6	3.38
2926V891	89.1	3.52
2926V906	90.6	3.58
2926V921	92.1	3.64
2926V966	96.6	3.81
2926V1006	100.6	3.97
2926V1026	102.6	3.57
2926V1086	108.6	3.78
2926V1106	110.6	3.84
2926V1146	114.6	3.98

3230 HV Belts [S]

Product No.	Pitch Length	Weight
3230HV528	52.8	3.13
3230HV546	54.6	3.22
3230HV553	55.3	3.28
3230HV570	57.0	3.38
3230HV585	58.5	3.47
3230HV603	60.3	3.57
3230HV613	61.3	3.63
3230HV620	62.0	3.67
3230HV626	62.6	3.69
3230HV644	64.4	3.81
3230HV685	68.5	4.05
3230HV702	70.2	4.15
3230HV723	72.3	4.27
3230HV821	82.1	4.85
3230HV856	85.6	5.05
3230HV931	93.1	5.49
3230HV960	96.0	5.66
3230HV1060	106.0	6.25

4430 V Belts [W]

Product No.	Pitch Length	Weight
4430V510	51.0	4.05
4430V530	53.0	4.20
4430V548	54.8	4.35
4430V555	55.5	4.40
4430V560	56.0	4.44
4430V570	57.0	4.51
4430V578	57.8	4.58
4430V600	60.0	4.75
4430V610	61.0	4.82
4430V630	63.0	4.98
4430V652	65.2	5.10
4430V660	66.0	5.21
4430V670	67.0	5.29
4430V690	69.0	5.44
4430V700	70.0	5.52
4430V710	71.0	5.60
4430V718	71.8	5.66
4430V730	73.0	5.76
4430V740	74.0	5.84
4430V750	75.0	5.91
4430V760	76.0	5.99
4430V780	78.0	6.10
4430V790	79.0	6.23
4430V800	80.0	6.30
4430V850	85.0	6.69
4430V900	90.0	7.08
4430V910	91.0	7.16
4430V930	93.0	7.31
4430V950	95.0	7.47
4430V970	97.0	7.63
4430V1000	100.0	7.86
4430V1030	103.0	8.09
4430V1060	106.0	8.33
4430V1090	109.0	8.56
4430V1120	112.0	8.79
4430V1150	115.0	9.03
4430V1180	118.0	9.26
4430V1250	125.0	9.90
4430V1320	132.0	10.35

4430 V Belts [W] (Continued)

Product No.	Pitch Length	Weight
4430V1410	141.0	10.55
4430V1460	146.0	10.93
4430V1610	161.0	12.04

4836 V Belts [Y]

Product No.	Pitch Length	Weight
4836V608	60.8	5.12
4836V618	61.8	5.54
4836V655	65.5	5.82
4836V670	67.0	5.99
4836V710	71.0	6.35
4836V800	80.0	7.16
4836V850	85.0	7.68
4836V900	90.0	8.04
4836V950	95.0	8.50
4836V1000	100.0	9.75
4836V1060	106.0	10.34
4836V1120	112.0	10.93
4836V1180	118.0	11.52
4836V1250	125.0	12.20

Note: Longer 4836 V belts are available on special order. Contact factory for availability.

Note: The Variable Speed Belts listed on these pages are only those used with Wood's stock Variable Speed Drives. For other available belts, refer to catalog WLP or consult the factory.

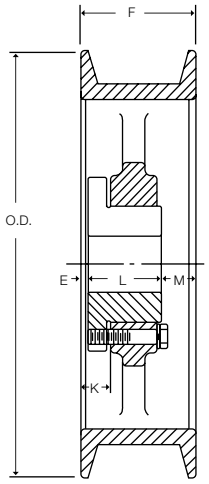
Wide Range Companion Sheaves

Dimensions

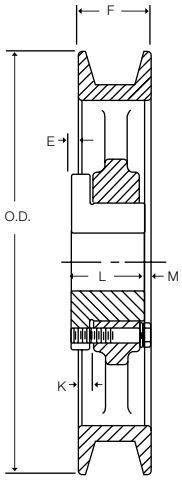
The companion sheaves for the motion control variable speed driver sheaves are made to accommodate Sure-Grip Bushings for ease of installation. The tables below list the dimensions for each.

PRODUCT NO.	Pitch Dia.	O.D.	BUSHING	TYPE	E	K	L	M	WT.
SINGLE "M" GROOVE FOR 1422V BELT			**F = 1-1/8**		**GROOVE TOP WIDTH = 7/8**				
531M	5.3	5.45	SH	D1	9/32	9/32	1-1/4	5/32	4.4
581M	5.8	5.95	SH	D1	9/32	9/32	1-1/4	5/32	5.3
681M	6.8	6.95	SH	D2	9/32	9/32	1-1/4	5/32	5.3
781M	7.8	7.95	SH	D2	9/32	9/32	1-1/4	5/32	6.5
881M	8.8	8.95	SH	D2	9/32	9/32	1-1/4	5/32	7.8
SINGLE "N" GROOVE FOR 1922V BELT			**F = 1-7/16**		**GROOVE TOP WIDTH = 1-3/16**				
561N	5.6	5.82	SK	D1	19/32	1/8	1-7/8	5/32	6.8
661N	6.6	6.82	SK	D1	19/32	1/8	1-7/8	5/32	9.7
761N	7.6	7.82	SK	D2	19/32	1/8	1-7/8	5/32	10.4
861N	8.6	8.82	SK	D2	19/32	1/8	1-7/8	5/32	12.0
961N	9.6	9.82	SK	D2	19/32	1/8	1-7/8	5/32	13.8
1061N	10.6	10.82	SK	D2	19/32	1/8	1-7/8	5/32	14.8
1161N	11.6	11.82	SK	D2	19/32	1/8	1-7/8	5/32	12.5
1361N	13.6	13.82	SK	D3	19/32	1/8	1-7/8	5/32	19.4
1561N	15.6	15.82	SK	D3	19/32	1/8	1-7/8	5/32	22.1
1761N	17.6	17.82	SK	D3	19/32	1/8	1-7/8	5/32	25.2
SINGLE "P" GROOVE FOR 2322V BELT			**F = 1-11/16**		**GROOVE TOP WIDTH = 1-7/16**				
661P	6.6	6.85	SK	D1	1/2	7/32	1-7/8	5/16	6.8
731P	7.3	7.50	SK	D1	1/2	7/32	1-7/8	5/16	9.7
761P	7.6	7.85	SK	D1	1/2	7/32	1-7/8	5/16	9.9
861P	8.6	8.85	SK	D2	1/2	7/32	1-7/8	5/16	13.3
961P	9.6	9.85	SK	D2	1/2	7/32	1-7/8	5/16	12.8
1081P	10.8	11.05	SK	D2	1/2	7/32	1-7/8	5/16	15.0
1181P	11.8	12.00	SK	D3	1/2	7/32	1-7/8	5/16	15.7
1381P	13.8	14.00	SK	D3	1/2	7/32	1-7/8	5/16	19.4
1581P	15.8	16.00	SK	D3	1/2	7/32	1-7/8	5/16	22.1
1781P	17.8	18.00	SK	D3	1/2	7/32	1-7/8	5/16	25.2
SINGLE "R" GROOVE FOR 2530V BELT			**F = 1-15/16**		**GROOVE TOP WIDTH = 1-9/16**				
801R	8.0	8.30	SF	D1	5/16	3/8	2	1/4	16.1
1001R	10.0	10.30	SF	D2	5/16	3/8	2	1/4	20.4
1201R	12.0	12.30	SF	D3	5/16	3/8	2	1/4	24.5
1301R	13.0	13.30	SF	D3	5/16	3/8	2	1/4	26.9
1401R	14.0	14.30	SF	D3	5/16	3/8	2	1/4	28.9
1601R	16.0	16.30	SF	D3	5/16	3/8	2	1/4	34.8
SINGLE "S" GROOVE FOR 3230HV BELT			**F = 2-3/8**		**GROOVE TOP WIDTH = 2**				
801S	8.0	8.4	SF	D1	1/16	5/8	2	7/16	17.3
901S	9.0	9.4	SF	D1	1/16	5/8	2	7/16	21.8
951S	9.5	9.9	SF	D2	1/16	5/8	2	7/16	19.4
1001S	10.0	10.4	SF	D2	1/16	5/8	2	7/16	21.6
1101S	11.0	11.4	SF	D3	1/16	5/8	2	7/16	22.8
1201S	12.0	12.4	SF	D3	1/16	5/8	2	7/16	25.5
1301S	13.0	13.4	SF	D3	1/16	5/8	2	7/16	28.1
1401S	14.0	14.4	SF	D3	1/16	5/8	2	7/16	32.5
1501S	15.0	15.4	SF	D3	1/16	5/8	2	7/16	35.1
1601S	16.0	16.4	SF	D3	1/16	5/8	2	7/16	40.4
1801S	18.0	18.4	SF	D3	1/16	5/8	2	7/16	44.2
2001S	20.0	20.4	SF	D3	1/16	5/8	2	7/16	51.2





Type A



Type D

Weights for all Sure-Grip items are approximate and include the bushing.
All dimensions in inches.
Figures following letter in column headed "Type" in tables on these pages indicate sheave constructions.
1 - Solid, No Web / 2 - Web / 3 - Arms

SURE GRIP BUSHINGS

Bushing	Flg. Dia.	Length	Stock Bore Range		Wt. (lbs.)
			Inches	MM	
SH	2-11/16	1-1/4	1/2 - 1-11/16	24-35	.9
SDS	3-3/16	1-5/16	1/2 - 2	24-42	1.3
SD	3-3/16	1-13/16	1/2 - 2	24-42	1.6
SK	3-7/8	1-7/8	1/2 - 2-5/8	24-55	2.8
SF	4-5/8	2	1/2 - 2-15/16	28-65	3.9
E	6	2-5/8	7/8 - 3-1/2	35-80	8.5
F	6-5/8	3-5/8	1 - 4	45-90	13.9

For more detailed information see A1 section of catalog WGC.

Dimensions

The companion sheaves for the motion control variable speed-driver sheaves are made to accommodate Sure-Grip Bushings for ease of installation. The tables below list the dimensions for each.

Product No.	Pitch Dia.	O.D.	Bushing	Type	E	K	L	M	Weight
SINGLE "T" GROOVE FOR 2926V BELT			**F = 2-1/8**		**GROOVE TOP WIDTH = 1-13/16**				
761T	7.6	7.90	SK	D1	9/32	7/16	1-7/8	15/32	13.6
861T	8.6	8.90	SK	D2	9/32	7/16	1-7/8	15/32	12.8
961T	9.6	9.90	SK	D2	9/32	7/16	1-7/8	15/32	14.8
1061T	10.6	10.90	SK	D2	9/32	7/16	1-7/8	15/32	18.2
1161T	11.6	11.90	SK	D2	9/32	7/16	1-7/8	15/32	20.0
1361T	13.6	13.90	SK	D3	9/32	7/16	1-7/8	15/32	21.2
1561T	15.6	15.90	SK	D3	9/32	7/16	1-7/8	15/32	24.2
1761T	17.6	17.90	SK	D3	9/32	7/16	1-7/8	15/32	30.0
1961T	19.6	19.90	SK	D3	9/32	7/16	1-7/8	15/32	34.1
SINGLE "W" GROOVE FOR 4430V BELT			**F = 3-1/8**		**GROOVE TOP WIDTH = 2-3/4**				
801W	8.0	8.4	SF	A1	1/8	13/16	2	1	18.6
851W	8.5	8.9	SF	A1	1/8	13/16	2	1	20.9
901W	9.0	9.4	SF	A1	1/8	13/16	2	1	23.3
951W	9.5	9.9	SF	A2	1/8	13/16	2	1	21.2
1001W	10.0	10.4	SF	A2	1/8	13/16	2	1	24.0
1101W	11.0	11.4	SF	A2	1/8	13/16	2	1	25.7
1201W	12.0	12.4	SF	A3	1/8	13/16	2	1	28.3
1301W	13.0	13.4	SF	A3	1/8	13/16	2	1	31.1
1401W	14.0	14.4	SF	A3	1/8	13/16	2	1	33.6
1501W	15.0	15.4	SF	A3	1/8	13/16	2	1	38.4
1601W	16.0	16.4	SF	A3	1/8	13/16	2	1	41.0
1801W	18.0	18.4	SF	A3	1/8	13/16	2	1	46.6
2001W	20.0	20.4	SF	A3	1/8	13/16	2	1	57.0
2201W	22.0	22.4	SF	A3	1/8	13/16	2	1	63.8
2401W	24.0	24.4	SF	A3	1/8	13/16	2	1	73.7
2801W	28.0	28.4	E	A3	1/32	15/16	2-5/8	19/32	106.0
SINGLE "Y" GROOVE FOR 4836V BELT			**F = 3-3/8**		**GROOVE TOP WIDTH = 3**				
1001Y	10.0	10.45	F	D1	9/16	7/16	3-5/8	5/16	44.8
1101Y	11.0	11.45	F	D1	9/16	7/16	3-5/8	5/16	54.7
1201Y	12.0	12.45	F	D1	9/16	7/16	3-5/8	5/16	66.4
1401Y	14.0	14.45	F	D2	9/16	7/16	3-5/8	5/16	56.7
1601Y	16.0	16.45	F	D3	9/16	7/16	3-5/8	5/16	65.8
1801Y	18.0	18.45	F	D3	9/16	7/16	3-5/8	5/16	72.8
2001Y	20.0	20.45	F	D3	9/16	7/16	3-5/8	5/16	80.0
2401Y	24.0	24.45	F	D3	9/16	7/16	3-5/8	5/16	101.1
3001Y	30.0	30.45	F	D3	9/16	7/16	3-5/8	5/16	135.6

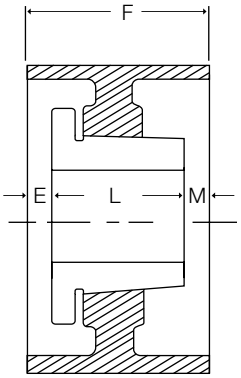
Wide Range Companion Pulleys

Dimensions

The companion pulleys for the motion control variable speed-driver sheaves are made to accommodate Sure-Grip Bushings for ease of installation. The tables below list the dimensions for each.

COMPANION PULLEYS

PRODUCT NO.	BUSH	TYPE	E	L	M	WT.
2" STRAIGHT FACE COMPANION PULLEYS						
62S	SH	A3	1/16	1-1/4	11/16	4
72S	SH	A3	1/16	1-1/4	11/16	5
82S	SH	A3	1/16	1-1/4	11/16	6
92S	SH	A3	1/16	1-1/4	11/16	6
102S	SH	A3	1/16	1-1/4	11/16	7
112S	SH	A3	1/16	1-1/4	11/16	9
122S	SH	A3	1/16	1-1/4	11/16	11
142S	SDS	A3	0	1-5/16	11/16	14
162S	SDS	A3	0	1-5/16	11/16	16
2-3/4" STRAIGHT FACE COMPANION PULLEYS						
4234S	SD	A1	1/2	1-13/16	7/16	4
5234S	SD	A2	1/2	1-13/16	7/16	5
6234S	SD	A3	1/2	1-13/16	7/16	6
7234S	SD	A3	1/2	1-13/16	7/16	7
8234S	SD	A3	1/2	1-13/16	7/16	9
9234S	SD	A3	1/2	1-13/16	7/16	9
10234S	SD	A3	1/2	1-13/16	7/16	12
11234S	SD	A3	1/2	1-13/16	7/16	12
12234S	SD	A3	1/2	1-13/16	7/16	16
14234S	SF	A3	7/16	2	5/16	20
16234S	SF	A3	7/16	2	5/16	22
18234S	SF	A3	0	2	3/4	27
20234S	SF	A3	0	2	3/4	30
4-1/4" STRAIGHT FACE COMPANION PULLEYS						
4414S	SD	A1	1/2	1-13/16	1-15/16	5
5414S	SD	A2	1/2	1-13/16	1-15/16	6
6414S	SD	A3	5/8	1-13/16	1-13/16	8
7414S	SD	A3	5/8	1-13/16	1-13/16	8
8414S	SD	A3	5/8	1-13/16	1-13/16	11
9414S	SD	A3	13/16	1-13/16	1-5/8	14
10414S	SD	A3	13/16	1-13/16	1-5/8	14
11414S	SD	A3	13/16	1-13/16	1-5/8	16
12414S	SF	A3	1-3/16	2	1-1/16	21
14414S	SF	A3	1-3/16	2	1-1/16	25
16414S	SF	A3	1-3/16	2	1-1/16	28
18414S	SF	A3	3/4	2	1-1/2	34
20414S	SF	A3	3/4	2	1-1/2	35
24414S	SF	A3	3/4	2	1-1/2	50



Part no. explanation:
Example: 62S
6 = Outside Diameter
2 = Face Width
STR = Designates straight face
(Necessary to be used as companion.)