Stock D-V Wedge Drives: Standard Motor Speeds

Step 1—Determine Service Factor. Refer to Typical Service Factors, Table 2. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated). Correct factor is determined by: **1.** The extent and frequency of peak loads. **2.** Number of operating hours/year (broken down in average hours/day of continuous service). **3.** Proper service category. (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

Step 2—Compute Design HP. Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

Step 3—Choose Belt Section. Using Table 1, below, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

Step 4—Select the Drive. a). Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7–46. **b).** Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 3). **c).** Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row **below** the C.D. figure. **d).** Read to the top of the table for the belt size. **e). To determine number of belts,** multiply the HP per Belt value by the ArcLength Correction Factor. This is the corrected hp/belt. Divide design HP by corrected HP figure to determine number of belts required.

EXAMPLE OF SELECTION

Select a D-V Wedge drive for a positive blower, with a 2-$^{15}/_{16}$″ shaft, to run @ 290 RPM, driven by a 30 HP, 1160 squirrel cage electric motor with a 2$^{1}/_{8}$″ shaft. Desired center distance is 26″. Service is continuous.

Step 1—Service factor from Table 2 is 1.4.

Step 2—Design HP = 1.4x30 = 42 HP.

Step 3—A 5V belt section is shown in Table 1 when reading to the right of 1160 RPM and up from 42 design HP.

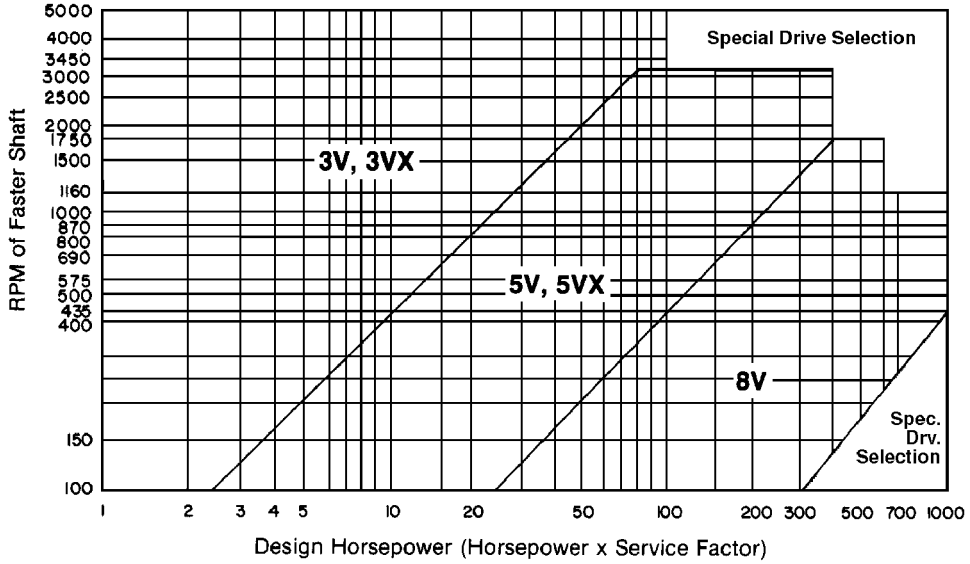
Step 4—Turn to 5V Stock Drive Selection Tables. On page PT7–68, under 1160 RPM Driver, read down to find 290 RPM. The nearest appears as 291.

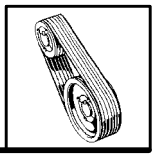
Note HP/belt as 10.00 for all D-V and POLYBAND belts over 200” and 12.00 for POLYBAND belts under 200”. Also note sheaves listed as 7.1 Driver, 28.0 Driven. Table 3 shows driver is not undersize. Reading toward the right the C.D. figure nearest 26″ is 26.4. The correction factor below the C.D. figure is .92. Top of table shows belt size as 5VX 1120.

The HP/belt for D-V is 12.00. This value x the .92 factor= 11.04 corrected HP/belt. 42 HP ÷ 11.04 = 3.80 Going to the next whole number, drive requires 3 belts. (Center to center operating distance is 26.4 nominal.)

Order: 1. 4-5VX 1120 D-V belts. **2.** 1 - 4/5V7.1-2517 Taper-Lock Sheave. **3.** 1 - 2$^{1}/_{8}$″ bore 2517 bushing. **4.** 1 - 4/5V28.0-3535 TAPER-LOCK Sheave. **5.** 1 - 2$^{15}/_{16}$″ bore 3535 bushing.

TABLE 1 — NARROW CROSS SECTION SELECTION CHART





Service Factors

Table 2 - Typical Service Factors

Driven Machine Types Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r.	Driver: Normal Torque NEMA Des. A or B Motors DC Shunt Wound Motors Multi-Cylinder Engines			Driver: High Torque NEMA Des. C or D Motors DC Series Wound Motors Single Cylinder Engines		
	Service*			Service*		
	Intermit.	Normal	Contin.	Intermit.	Normal	Cont.
Agitators for Liquids Blowers and Exhausters Centrif. Pumps, Compressors Fans up to 10HP Light Duty Conveyors	**1.0**	**1.1**	**1.2**	**1.1**	**1.2**	**1.3**
Belt Conveyors, Bulk Mat'l Dough Mixers Fans over 10 HP Generators Line Shafts Laundry Machinery Machine Tools Punches, Presses, Shears Printing Machinery Positive Displ. Rotary Pumps Revolving & Vibrating Screens	**1.1**	**1.2**	**1.3**	**1.2**	**1.3**	**1.4**
Brick Machinery Bucket Elevators Exciters Piston Compressors Conveyors: Drag, Pan, Screw Paper Mill Beaters Piston Pumps Pos. Displacement Blowers Pulverizers Saw Mill, Woodworking Mach'y Textile Machinery	**1.2**	**1.3**	**1.4**	**1.4**	**1.5**	**1.6**
Crushers: Gyratory, Jaw, Roll Mills: Ball, Rod, Tube Hoists Rubber Calendars, Extruders, Mills	**1.3**	**1.4**	**1.5**	**1.6**	**1.7**	**1.8**
Chokable Equipment, Fire Hazzard	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

*** Note:**
Intermittent:
Up to 6 Hrs/Day
Normal:
6-16 Hrs/Day
Continuous:
16-24 Hrs/Day

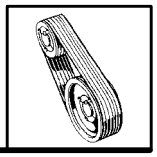
Adder for Idlers:
Outside on slack side 0.1
Inside on tight side 0.1
Outside on tight side 0.2

Table 3 - NEMA Min. Sheave Dia. for D-V Wedge Drives

Motor		Motor Horsepower																								
RPM	Sheave	1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	250	300	350	400
870	Min O.D.	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	5.2	6.0	6.8	6.8	6.8	8.2	8.4	10.0	9.5	12.0	12.5	13.2	13.2	15.0	. . .	. . .	. . .
	Max F.W.	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	8.5	8.5	11.6	11.6	11.6	. . .	. . .	. . .
1160	Min O.D.	. . .	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.4	5.2	6.0	6.8	6.8	8.2	9.0	10.0	10.0	12.0	13.2	13.2	13.2	15.0	14.1	. . .
	Max F.W.	. . .	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	8.5	8.5	11.6	11.6	11.6	11.6	. . .
1750	Min O.D.	. . .	. . .	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.4	4.4	5.2	6.0	6.8	7.4	8.6	8.6	10.5	10.5	13.2	13.2	13.2	13.2	14.1
	Max F.W.	. . .	. . .	2.3	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	9.4	9.4	11.6	11.6	11.6
3500	Min O.D.	. . .	. . .	. . .	2.2	2.4	2.4	3.0	3.8	4.4	4.4	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
	Max F.W.	. . .	. . .	. . .	2.3	2.3	2.8	2.8	3.4	4.0	4.0	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .

Data in unshaded area is per NEMA Standard MG1-14.42. Data in shaded area subject to approval of motor manufacturer.
F.W. = Face Width of sheave

SHEAVES PAGES PT7–2-PT7–27	BELTS PAGES PT7–28-PT7–41	SELECTION: CLASSICAL PAGES PT7–84-PT7–123	ENGINEERING/TECHNICAL PAGES PT7–123-PT7–128



Stock D-V Wedge Drives: Non Standard Motor Speeds & Speed-up Drives

For Speeds Other Than Standard Motor Speeds:

Step 1 - Determine Speed Ratio $= \left(\frac{\text{Driver RPM}}{\text{Driven RPM}}\right)$

Step 2 - Compute Design HP Multiply normal running HP required or nameplate rating by service factor from Table 2.

Step 3 - Determine Maximum Diameter of Driver Sheave

@ 6500 FPM : O.D. $= \frac{6500 \text{ FPM}}{.262 \times \text{RPM}}$

Step 4 - Select Belt Cross Section. Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

Step 5 - Select Drive. Using the belt section from Step 4, make a tentative sheave selection from **stock drive tables**. (Note that several choices are available in the ratio obtained from Step 1. Other choices close to this ratio may also produce a functional drive.) Read onto opposite page and find figure nearest the required center distance. The Arc-Length correction factor is listed in the **shaded row below** the C.D. figure. Read to the top of the table for the belt size.

Step 6 - Size the Drive. From basic horsepower tables locate HP rating at intersection of RPM of faster shaft row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts : $\frac{\text{Design HP}}{\text{Correction HP/Belt}}$

EXAMPLE OF SELECTION

A V-drive is needed for a 30 HP 2200 RPM gasoline engine, with a $2^1/_4$″ dia. shaft, driving a generator, with a $2^7/_{16}$″ dia. shaft, @ 1800 RPM. It runs 8 hrs. a day. Center distance is 31″.

Step 1 - Speed Ratio $= \frac{2200}{1800} = 1.23$

Step 2 - Service Factor = 1.2 Design HP = 30 x 1.2 = 36

Step 3 - Driver Sheave Max. Dia. $= \frac{6500}{.262 \times 2200} = 11.3$

Step 4 - Belt Cross Section = Table 1 indicates 3VX.

Step 5 - In 3VX **Stock Drive Selection Tables** on pages PT7–48 and PT7–49, find the 1.23 ratio obtained in the Step 1 calculation. At the top of page PT7–48, the most economical drive is shown as 6.5 Driver, 8.0 Driven. The C.D. nearest 31″ is 31.1. The correction factor below the C.D. figure is 1.05. Top of the column shows a 3VX850 belt. Refer to **Basic HP Tables** on page PT7–78. and PT7–79. From the 2200 RPM of faster shaft row and down from the 6.5 smaller sheave heading: 10.2 HP/belt plus an additional hp of .23 in the 1.19 thru 1.26 ratio column. The sum = 10.43 HP/belt x 1.05 arc length correction factor = 10.95 HP/belt.

Number of belts $= \frac{36}{10.95} = 3.28$ or 4 belts

Order: 1- 4 groove 3V 6.5 TAPER-LOCK Sheave, 1-2517 $2^1/_4$″ bore bushing, 1-4 groove 8.0 TAPER-LOCK Sheave, 1- 2517 $2^7/_{16}$″ bore bushing, 4-3VX850 D-V Wedge Belts.

Example of a 3V Speed-Up Drive—

A 20 HP 1750 RPM AC motor, with a 1-5/8" dia. shaft, is to drive a blower, with a 1-7/16" shaft, @ 2500 RPM. The center distance = 26". Equipment runs 24 hrs./day.

1. Service Factor from Table 2 is 1.2.
2. Design HP=20x1.2=24 HP
3. Speed Ratio $= \frac{2500}{1750} = 1.43$
4. In Stock Drive Table, under 1.43 ratio, sheaves are listed as 5.6 Driver/8.0 Driven. (In a speed-up drive, the 5.6 sheave becomes the Driven, the 8.0 the Driver). The opposite page of the table shows the closest center distance as 26.8 with an arc correction factor of 1.03. Belt shown at top of column is 3VX750.
5. From **Basic Horsepower Tables** a 5.6 sheave @ 2500 RPM = (9.46 + .37) = 9.83. 9.83 X 1.03 arc length correction factor = 10.12 corrected HP/belt.
6. Number of Belts $= \frac{\text{Design HP}}{\text{Corrected HP}} = \frac{24}{10.12} = 2.37$ or 3 belts.
7. Order: 1-3 groove 3V 8.0 TAPER-LOCK Sheave, 1-$1^5/_8$″ bore 2517 bushing, 1-3 groove 3V 5.6 TAPER-LOCK Sheave, 1-$1^7/_{16}$″ bore 1610 bushing, 3-3VX750 D-V belts.

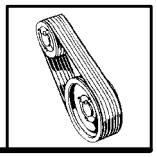


Table 4 - Narrow Belt Length Correction Factors

Belt Lgth. s	Factor for Belts: 3VX	5V, 5VX	8V, 8VX	Belt Lgth. s	Factor for Belts: 3VX	5V, 5VX	8V, 8VX
25	.83	...	...	118	1.12	.99	.89
26.5	.84	...	...	125	1.13	1.00	.90
28	.85	...	...	132	1.14	1.01	.91
30	.86	...	...	140	1.15	1.02	.92
31.5	.87	...	...	150	1.16	1.03	.93
33.5	.88	...	...	160	...	1.04	.94
35.5	.89	..	...	170	...	1.05	.94
37.5	.90	..	...	180	...	1.06	.95
40	.92	...	...	190	...	1.07	.96
42.5	.93	...	...	200	...	1.08	.97
45	.94	...	...	212	...	1.09	.98
47.5	.95	...	...	224	...	1.09	.98
50	.96	.85	...	236	...	1.10	.99
53	.97	.86	...	250	...	1.11	1.00
56	.98	.87	...	265	...	1.12	1.01
60	.99	.88	...	280	...	1.13	1.02
63	1.00	.89	...	300	...	1.14	1.03
67	1.01	.90	...	315	...	1.15	1.03
71	1.02	.91	...	335	...	1.16	1.04
75	1.03	.92	...	355	...	1.17	1.05
80	1.04	.93	...	375	...	...	1.06
85	1.06	.94	...	400	...	...	1.07
90	1.07	.95	...	425	...	...	1.08
95	1.08	.96	...	450	...	..	1.09
100	1.09	.96	.87	475	...	...	1.09
106	1.10	.97	.88	500	...	...	1.10
112	1.11	.98	.88	560	...	...	1.11

s Outside circumference in inches.

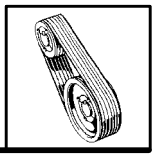
Table 5 - Arc Correction Factors

$\frac{D-d}{C}$ ★	Approx. Arc of Contact on Small Shv.	Factor
.00	180°	1.00
.10	174°	.99
.20	169°	.97
.30	163°	.96
.40	157°	.94
.50	151°	.93
.60	145°	.91
.70	139°	.89
.80	133°	.87
.90	127°	.85
1.00	120°	.82
1.10	113°	.80
1.20	106°	.77
1.30	99°	.73
1.40	91°	.70
1.50	83°	.65

★ D = Dia. of large sheave.
d = Dia. of small sheave.
C= Center distance.

NOTE: To determine required belt length when center distance and sheave diameters are known, use the following formula.

$$L = 2C + 1.57\,(D + d) + \frac{(D - d)^2}{4c}$$



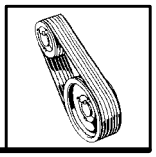
8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance							
	Diameter		Driven RPM	HP Per Belt	Driven RPM	HP Per Belt	Driven RPM	HP Per Belt	8VX 1000	8VX 1060	8VX 1120	8VX 1180	8VX 1250	8VX 1320	8VX 1400	8VX 1500
	Driver	Driven		8V		8V		8V								
1.00	12.5	12.5	1750	50.9	1160	42.6	870	35.0	30.4	33.4	36.4	39.4	42.9	46.4	50.4	55.4
	13.2	13.2	1750	56.1	1160	47.3	870	38.9	29.3	32.3	35.3	38.3	41.8	45.3	49.3	54.3
	14.0	14.0	1750	61.7	1160	52.5	870	43.2	28.0	31.0	34.0	37.0	40.5	44.0	48.0	53.0
	15.0	15.0	...	...	1160	58.8	870	48.6	26.4	29.4	32.4	35.4	38.9	42.5	46.5	51.5
	16.0	16.0	...	...	1160	64.8	870	53.8	24.9	27.9	30.9	33.9	37.4	40.9	44.9	49.9
	17.0	17.0	...	...	1160	70.6	870	58.9	23.3	26.3	29.3	32.3	35.8	39.3	43.3	48.3
	18.0	18.0	...	...	1160	76.1	870	63.9	21.7	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	19.0	19.0	...	...	1160	81.2	870	68.7	...	23.2	26.2	29.2	32.7	36.2	40.2	45.2
	20.0	20.0	...	...	1160	86.1	870	73.3	...	...	24.6	27.6	31.1	34.6	38.6	43.6
	21.2	21.2	...	...	1160	91.5	870	78.8	...	...	...	25.7	29.2	32.7	36.7	41.7
	22.4	22.4	...	...	....	....	870	84.0	...	...	...	...	27.3	30.8	34.8	39.8
	24.8	24.8	...	...	....	...	870	93.8	...	...	...	...	...	...	31.0	36.0
1.05	19.0	20.0	...	...	1101	82.5	826	69.6	...	...	25.4	28.4	31.9	...	39.4	44.4
1.06	12.5	13.2	1656	53.0	1098	44.1	823	36.1	29.8	32.8	35.8	38.8	42.3	45.8	49.8	54.8
	13.2	14.0	1649	58.4	1093	48.7	820	40.0	28.6	31.6	34.6	37.6	41.1	44.6	48.6	53.6
	16.0	17.0	...	...	1091	66.3	818	54.9	24.1	27.1	30.1	33.1	36.6	40.1	44.1	49.1
	17.0	18.0	...	...	1095	72.1	821	60.0	22.5	25.5	28.5	31.5	35.0	38.5	42.5	47.5
	18.0	19.0	...	...	1098	77.5	824	65.0	...	23.9	27.0	30.0	33.5	37.0	41.0	46.0
	20.0	21.2	...	...	1094	87.6	820	74.5	...	...	...	26.7	30.2	33.7	37.7	42.7
	21.2	22.4	...	...	1097	93.0	823	79.9	...	...	...	...	28.3	31.8	35.8	40.8
1.07	14.0	15.0	1632	64.2	1082	54.2	811	44.5	27.2	30.2	33.2	36.2	39.7	43.2	47.2	52.2
	15.0	16.0	...	...	1087	60.5	815	49.8	25.7	28.7	31.7	34.7	38.2	41.7	45.7	50.7
1.11	18.0	20.0	...	...	1043	78.5	782	65.7	...	23.1	26.2	39.2	32.7	36.2	40.2	45.2
	22.4	24.8	...	...	...	...	785	85.8	...	...	...	...	...	28.9	32.9	37.9
						ARC-LENGTH CORRECTION FACTOR ▶			.86	.87	.86	.89	.90	.90	.91	.92
1.12	12.5	14.0	1560	54.8	1034	45.2	775	37.0	29.2	32.2	35.2	38.2	41.7	45.2	49.2	54.2
	17.0	19.0	...	...	1037	73.2	777	60.8	21.7	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	19.0	21.2	...	...	1038	83.8	779	70.6	...	...	24.4	27.4	30.9	34.4	38.4	43.4
	20.0	22.4	...	...	1035	88.7	776	75.3	...	...	...	25.7	29.3	32.7	36.7	41.7
1.13	16.0	18.0	...	...	1030	67.5	772	55.9	23.3	26.3	29.3	32.3	35.8	39.3	43.3	48.3
1.14	13.2	15.0	1537	60.4	1019	50.1	764	41.0	27.8	30.8	33.9	36.9	40.4	43.9	47.9	52.9
	14.0	16.0	1528	66.1	1013	55.4	760	45.4	26.4	29.4	32.4	35.4	38.9	42.4	46.4	51.4
	15.0	17.0	...	...	1022	61.66	766	50.7	24.9	27.9	30.9	33.9	37.4	40.9	44.9	49.9
1.17	21.2	24.8	...	...	990	94.83	743	81.3	...	...	...	...	...	29.8	33.8	38.8
1.18	17.0	20.0	...	...	984	73.98	738	61.4	...	23.9	26.9	29.9	33.4	36.9	40.9	45.9
	18.0	21.2	...	...	983	79.46	737	66.4	...	...	25.2	28.2	31.7	35.2	39.2	44.2
	19.0	22.4	...	...	982	84.65	737	71.3	...	...	...	26.4	30.0	33.5	37.5	42.5
1.19	16.0	19.0	...	...	975	68.33	731	56.4	22.5	25.5	28.5	31.5	35.0	38.5	42.5	47.5
1.20	12.5	15.0	1454	56.4	964	46.20	723	37.7	28.4	31.4	34.4	37.4	40.9	44.4	48.4	53.4
	15.0	18.0	...	...	964	62.40	723	51.3	24.0	27.1	30.1	33.1	36.6	40.1	44.1	49.1
1.21	24.8	30.0	...	...	...	...	718	96.6	...	...	...	...	...	...	...	31.9
1.22	13.2	16.0	1440	61.8	954	51.09	716	41.7	27.0	30.0	33.0	36.1	39.6	43.1	47.1	52.1
	14.0	17.0	1438	67.4	953	56.31	715	46.1	25.6	28.6	31.6	34.6	38.1	41.6	45.6	50.6
1.24	20.0	24.8	...	...	934	90.14	700	76.4	...	...	...	...	27.2	30.7	34.7	39.7
1.25	16.0	20.0	...	...	926	68.92	694	56.9	21.6	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	17.0	21.2	...	...	928	74.68	696	62.0	...	22.9	25.9	28.9	32.4	36.0	40.0	45.0
	18.0	22.4	...	...	930	80.16	698	66.9	...	...	24.2	27.2	30.7	34.2	38.2	43.2
1.27	15.0	19.0	...	...	913	63.04	685	51.8	23.2	26.2	29.2	32.2	35.8	39.3	43.3	48.3
1.28	12.5	16.0	1362	57.5	903	46.92	677	38.2	27.6	30.6	33.6	36.6	40.1	43.6	47.6	52.6
1.29	13.2	17.0	1354	62.8	898	51.68	673	42.2	26.2	29.2	32.2	35.2	38.7	42.3	46.3	51.3
	14.0	18.0	1357	68.3	899	56.89	674	46.5	24.8	27.8	30.8	33.8	37.3	40.8	44.8	49.8
1.31	19.0	24.8	...	...	887	85.80	665	72.1	...	...	...	...	27.9	31.5	35.5	40.5
1.32	17.0	22.4	...	...	878	75.19	658	62.4	...	...	24.9	27.9	31.5	35.0	39.0	44.0
1.33	16.0	21.2	...	...	873	69.49	655	57.3	...	23.7	26.7	29.7	33.2	36.7	40.7	45.7
1.34	15.0	20.0	...	...	867	63.51	650	52.1	22.4	25.4	28.4	31.4	34.9	38.4	42.5	47.5
	22.4	30.0	...	...	...	...	648	87.6	...	...	...	...	...	...	...	33.7
						ARC-LENGTH CORRECTION FACTOR ▶			.84	.85	.86	.87	.88	.89	.90	.90

NOTES: Arc & Length factors are approximate values
Refer to Selection Procedure for more precise calculations

SHEAVES PAGES PT7–2-PT7–27	BELTS PAGES PT7–28-PT7–41	SELECTION: CLASSICAL PAGES PT7–84-PT7–123	ENGINEERING/TECHNICAL PAGES PT7–123-PT7–128



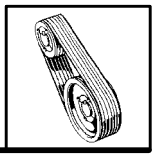
8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																						
	8VX 1600	8VX 1700	8VX 1800	8VX 1900	8VX 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
1.00	60.4	65.4	70.4	75.4	80.4	86.4	92.4	98.4	105	113	120	130	138	148	158	168	180	193	205	218	230	260
	59.3	64.3	69.3	74.3	79.3	85.3	91.3	97.3	104	112	119	129	137	147	157	167	179	192	204	217	229	259
	58.0	63.0	68.0	73.0	78.0	84.0	90.0	96.0	103	110	118	128	135	145	155	165	178	190	203	215	228	258
	56.5	61.5	66.5	71.5	76.5	82.5	88.5	94.5	101	109	116	126	134	144	154	164	176	189	201	214	226	256
	54.9	59.9	64.9	69.9	74.9	80.9	86.9	92.9	100	107	115	125	132	142	152	162	175	187	200	212	225	255
	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
	50.2	55.2	60.2	65.2	70.2	76.2	82.2	88.2	95	103	110	120	127	138	148	158	170	183	195	208	220	250
	48.6	53.6	56.6	63.6	68.6	74.6	80.6	86.6	94	101	109	119	126	136	146	156	169	181	194	206	219	248
	46.7	51.7	56.7	61.7	66.7	72.7	78.7	84.7	92	99	107	117	124	134	144	154	167	179	192	204	217	247
	44.8	49.8	54.8	59.8	64.8	70.8	76.8	82.8	90	97	105	115	122	132	142	152	165	177	190	202	215	245
	41.0	46.0	51.0	56.0	61.0	67.0	73.0	79.0	86	93	101	111	118	128	138	148	161	173	186	198	211	241
1.05	49.4	54.4	59.4	64.4	69.4	75.4	81.4	87.4	94	102	109	119	127	137	147	1570	169	182	194	267	219	249
1.06	59.8	64.8	69.8	74.8	79.8	85.8	91.8	97.8	105	112	120	130	137	147	157	167	180	192	205	217	230	26
	58.6	63.6	68.6	73.6	78.6	84.6	90.6	96.6	104	111	119	129	136	146	156	166	179	191	204	216	229	259
	54.1	59.1	64.1	69.1	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
	51.0	56.0	61.0	66.0	71.0	77.0	83.0	89.0	96	103	111	121	128	138	148	158	171	183	196	208	221	251
	47.7	52.7	57.7	62.7	67.7	73.7	79.7	85.7	93	100	108	118	125	135	145	155	168	180	193	206	218	248
	45.8	50.8	55.8	60.8	65.8	71.8	77.8	83.8	91	98	106	116	123	133	143	153	166	178	191	203	216	246
1.07	57.2	62.2	67.2	72.2	77.2	83.2	89.2	95.2	102	110	117	127	134	145	155	165	177	190	202	215	227	257
	55.2	60.7	65.7	70.7	75.7	81.7	87.7	93.7	101	108	116	126	133	143	153	163	176	188	201	213	226	256
1.11	50.2	55.2	60.2	65.2	70.2	76.2	82.2	86.2	95	103	110	120	128	138	148	158	170	183	195	208	220	250
	42.9	47.9	52.9	57.9	62.9	68.9	74.9	80.9	88	95	103	113	120	130	140	150	163	175	188	200	213	243
	.93	.94	.95	.96	.97	.97	.98	.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.09	1.10	1.12
1.12	59.2	64.2	69.2	74.2	79.2	85.2	91.2	97.2	104	112	119	129	137	147	157	167	179	192	204	217	229	259
	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
	48.4	53.4	58.4	63.4	68.4	74.4	80.4	86.4	93	101	108	118	126	136	146	156	168	181	193	206	218	248
	46.7	51.7	56.7	61.7	66.7	72.7	78.7	84.7	92	99	107	117	124	134	144	154	167	179	191	204	217	247
1.13	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
1.14	57.9	62.9	67.9	72.9	77.9	83.9	89.9	95.9	103	110	118	128	135	145	155	165	118	190	203	215	228	258
	56.4	61.4	66.4	71.4	76.4	82.4	88.4	94.4	101	109	116	126	134	144	154	164	17	189	201	214	226	256
	54.9	59.9	64.9	69.9	74.9	80.9	86.9	92.9	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.17	43.8	48.8	53.8	58.8	63.8	69.8	75.9	81.9	89	96	104	114	121	131	141	151	164	176	189	201	214	244
1.18	50.9	55.9	60.9	65.9	70.9	76.9	82.9	88.9	96	103	111	121	128	138	148	158	171	183	196	208	221	251
	49.2	54.2	59.2	64.2	69.2	75.2	81.2	87.2	94	102	109	119	127	137	147	157	169	182	194	207	219	249
	47.5	52.5	57.5	62.5	67.5	73.5	79.5	85.5	92	100	107	117	125	135	145	155	167	180	192	205	217	247
1.19	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.20	58.4	63.4	68.4	73.4	78.4	84.4	90.4	96.4	103	111	118	128	136	146	156	166	178	191	203	216	228	258
	54.1	59.1	64.1	69.1	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
1.21	36.9	41.9	46.9	51.9	56.9	62.9	68.9	74.9	82	89	97	107	114	124	134	144	157	169	182	194.	207	237
1.22	57.1	62.1	67.1	72.1	77.1	83.1	89.1	95.1	102	110	117	127	135	145	155	165	177	190	202	215	227	257
	55.6	60.6	65.6	70.6	75.7	81.7	87.7	93.7	101	108	116	126	133	143	153	163	176	186	201	213	226	256
1.24	44.8	49.8	54.8	59.8	64.8	70.8	76.8	82.8	90	97	105	115	122	132	142	152	165	177	190	202	215	244
	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
1.25	50.0	55.0	60.0	65.0	70.0	76.0	82.0	88.0	95	102	110	120	127	137	147	157	170	182	195	207	220	250
	48.2	53.2	58.2	63.2	68.3	74.3	80.3	86.3	93	101	108	118	126	136	146	156	168	181	193	206	218	248
1.27	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	212	223	253
1.28	57.6	62.6	67.6	72.6	77.6	83.6	89.6	95.6	103	110	118	128	135	145	155	165	178	190	203	21	228	258
1.29	56.3	61.3	66.3	71.3	76.3	82.3	88.3	94.3	101	109	116	126	134	144	154	164	176	189	201	214	226	256
	54.8	59.8	64.8	69.9	74.9	80.9	86.9	92.9	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.31	45.5	50.5	55.5	60.5	65.5	71.5	77.5	83.5	91	98	106	116	123	133	143	153	166	178	191	203	216	245
1.32	49.0	54.0	59.0	64.0	69.0	75.0	81.0	87.0	94	101	109	119	126	135	146	156	169	182	194	207	219	249
1.33	50.7	55.7	60.7	65.7	70.8	76.8	82.8	88.8	96	103	111	121	128	138	148	158	171	183	196	208	221	251
1.34	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
	38.7	43.7	48.7	53.7	58.7	64.8	70.8	76.8	84	91	99	109	116	126	136	146	159	171	184	196	209	239
	.92	.93	.94	.95	.96	.97	.98	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.08	1.09	1.10	1.11

SHEAVES PAGES PT7-2-PT7-27	BELTS PAGES PT7-28-PT7-41	SELECTION: CLASSICAL PAGES PT7-84-PT7-123	ENGINEERING/TECHNICAL PAGES PT7-123-PT7-128

DODGE®



8V D-V Wedge & POLYBAND Belts

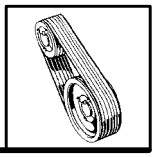
STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance							
	Outside Diameter		Driven RPM	HP Per Belt	Driven RPM	HP Per Belt	Driven RPM	HP Per Belt	8VX 1000	8VX 1060	8VX 1120	8VX 1180	8VX 1250	8VX 1320	8VX 1400	8VX 1500
	Driver	Driven		8V		8V		8V								
1.36	14.0	19.0	1285	69.0	851	57.3	639	46.9	24.0	27.0	30.0	33.0	36.5	40.0	44.0	49.0
1.37	12.5	17.0	1281	58.3	849	47.5	637	38.7	26.7	29.8	32.8	35.8	39.3	42.8	46.8	51.8
	13.2	18.0	1278	63.5	847	52.2	635	42.5	25.4	28.4	31.4	34.4	37.9	41.4	45.4	50.5
1.38	18.0	24.8	...	...	839	81.0	630	67.6	...	...	..	25.2	28.7	32.2	36.2	41.2
1.41	16.0	22.4	...	...	826	69.9	619	57.6	...	...	25.7	28.7	32.2	35.7	39.7	44.7
1.42	15.0	21.2	...	...	818	63.9	613	52.4	...	24.4	27.4	30.4	33.9	37.5	41.5	46.5
	21.2	30.0	...	...	817	96.7	613	82.7	...	...	...	...	...	...	29.5	34.5
1.43	14.0	20.0	1220	69.5	808	57.7	606	47.1	23.1	26.1	29.2	32.2	35.7	39.2	43.2	48.2
	24.8	35.5	...	...	...	...	606	97.6	...	...	...	...	...	...	...	...
1.45	12.5	18.0	1209	58.8	802	47.8	601	38.9	25.9	28.9	31.9	34.9	38.5	42.0	46.0	51.0
	13.2	19.0	1210	64.0	802	52.5	602	42.8	24.6	27.6	30.6	33.6	37.1	40.6	44.6	49.6
1.46	17.0	24.8	...	...	792	75.9	594	62.9	...	...	...	25.9	29.4	32.9	37.0	42.0
1.50	15.0	22.4	...	...	773	64.2	580	52.6	...	23.3	26.4	29.4	32.9	36.5	40.5	45.5
1.51	20.0	30.0	...	...	771	91.5	578	77.5	...	...	...	...	...	...	30.3	35.4
1.52	13.2	20.0	1149	64.4	762	52.7	571	43.0	23.7	26.7	29.7	32.8	36.3	39.8	43.8	48.8
	14.0	21.2	1150	69.9	762	57.9	572	47.3	22.1	25.1	28.1	31.2	34.7	38.2	42.2	47.2
1.53	12.5	19.0	1145	59.2	759	48.2	569	39.1	25.1	28.1	31.1	34.1	37.6	41.1	45.2	50.2
1.56	16.0	24.8	...	...	745	70.4	559	58.0	...	...	...	26.6	30.1	33.7	37.7	42.7
1.59	19.0	30.0	...	...	732	86.9	549	72.9	...	...	...	...	...	...	31.0	36.1
	22.4	35.5	...	...	...	...	547	88.3	...	...	...	...	...	...	...	...
1.61	12.5	20.0	1087	59.5	721	48.3	540	39.3	24.2	27.2	30.3	33.3	36.8	40.3	44.3	49.3
	14.0	22.4	1088	70.2	721	58.2	541	47.5	...	24.1	27.1	30.1	33.7	37.2	41.2	46.2
1.62	13.2	21.2	1083	64.7	718	53.0	539	43.2	22.6	25.7	28.7	31.7	35.3	38.8	42.8	47.8
	24.8	40.0	...	...	...	...	538	98.0	...	...	...	...	...	...	...	...
1.66	15.0	24.8	...	...	698	64.6	523	52.9	...	...	24.2	27.3	30.9	34.4	38.4	43.5
ARC-LENGTH CORRECTION FACTOR ▶									.83	.84	.85	.86	.87	.88	.89	.91
1.67	18.0	30.0	...	...	693	81.9	520	68.2	...	...	...	...	...	27.7	31.7	36.8
1.68	21.2	35.5	...	...	690	97.4	518	83.2	...	...	...	...	...	...	...	...
1.71	12.5	21.2	1025	59.7	679	48.4	510	39.4	23.1	26.2	29.2	32.3	35.8	39.3	43.3	48.3
	13.2	22.4	1025	65.0	679	53.1	509	43.3	21.6	24.6	27.7	30.7	34.2	37.8	41.8	46.8
1.77	17.0	30.0	...	...	654	76.5	490	63.4	...	...	...	...	...	28.4	32.5	37.5
1.78	14.0	24.8	982	70.6	651	58.4	488	47.7	...	...	24.9	28.0	31.6	35.1	39.2	44.2
	20.0	35.5	...	...	651	92.1	488	77.9	...	...	...	...	...	...	...	...
1.79	22.4	40.0	...	...	...	...	485	88.5	...	...	...	...	...	...	...	...
1.80	12.5	22.4	970	59.9	643	48.6	482	39.5	22.0	25.1	28.2	31.2	34.7	38.3	42.3	47.3
	24.8	44.5	...	...	...	...	483	98.3	...	...	...	...	...	...	...	...
1.88	19.0	35.5	...	...	618	87.3	463	73.2	...	...	...	...	...	...	...	31.1
1.89	13.2	24.8	925	65.3	613	53.3	460	43.4	...	...	25.5	28.6	32.1	35.7	39.7	44.8
	16.0	30.0	...	...	615	70.9	461	58.4	...	...	...	...	...	29.0	33.1	38.2
1.90	21.2	40.0	...	...	612	97.6	459	83.4	...	...	...	...	...	...	...	...
1.98	18.0	35.5	...	...	585	82.2	439	68.5	...	...	...	...	...	...	...	31.8
2.00	12.5	24.8	875	60.2	580	48.7	435	39.6	...	22.9	26.0	29.1	32.6	36.2	40.2	45.3
	22.4	44.5	...	...	...	...	436	88.7	...	...	...	...	...	...	...	...
2.01	15.0	30.0	...	...	576	64.9	432	53.2	...	...	...	...	26.1	29.7	33.8	38.9
	20.0	40.0	...	...	577	92.3	433	78.0	...	...	...	...	...	...	...	...
2.10	17.0	35.5	...	...	552	76.8	414	63.6	...	...	...	...	...	...	...	32.4
2.11	21.2	44.5	...	...	550	97.8	412	83.5	...	...	...	...	...	...	...	...
2.12	19.0	40.0	...	...	548	87.5	411	73.4	...	...	...	...	...	...	...	...
2.15	24.8	53.0	...	...	...	...	405	98.5	...	...	...	...	...	...	...	...
2.16	14.0	30.0	810	71.1	537	58.7	403	47.9	...	...	...	...	26.7	30.4	34.5	39.6
2.23	16.0	35.5	...	...	519	71.1	389	58.5	...	...	...	...	...	...	...	33.1
2.24	18.0	40.0	...	...	519	82.3	389	68.6	...	...	...	...	...	...	...	...
	20.0	44.5	...	...	518	92.4	389	78.1	...	...	...	...	...	...	...	...
2.29	13.2	30.0	763	65.6	506	53.6	380	43.6	...	...	...	...	27.3	30.9	35.1	40.2
2.36	19.0	44.5	...	...	492	87.6	369	73.4	...	...	...	...	...	...	...	...
2.37	17.0	40.9	...	...	490	76.9	367	63.6	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR ▶									.80	.80	.81	.81	.82	.83	.85	.87

NOTES: Arc & Length factors are approximate values
Refer to Selection Procedure for more precise calculations

SHEAVES PAGES PT7-2-PT7-27	BELTS PAGES PT7-28-PT7-41	SELECTION: CLASSICAL PAGES PT7-84-PT7-123	ENGINEERING/TECHNICAL PAGES PT7-123-PT7-128

DODGE®



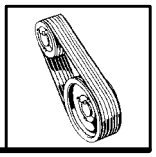
8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																					
	8VX 1600	8VX 1700	8VX 1800	8VX 1900	8VX 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
1.36	54.0	59.0	64.0	69.0	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
1.37	56.8	61.8	66.8	71.8	76.8	82.8	88.8	94.8	102	109	117	127	134	144	154	164	177	189	202	214	227	257
	55.5	60.5	65.5	70.5	75.5	81.5	87.5	93.5	101	108	115	125	133	143	153	163	175	186	200	213	225	255
1.38	46.3	51.3	56.3	61.3	66.3	72.3	78.3	84.3	91	99	106	116	124	134	144	154	166	179	191	204	216	246
1.41	49.8	54.8	59.8	64.8	69.8	75.8	81.8	87.8	95	102	110	120	127	137	147	157	170	182	195	207	220	250
1.42	51.5	56.5	61.5	66.5	71.5	77.5	83.5	89.5	97	104	111	121	129	139	149	159	172	184	197	209	222	252
	39.6	44.6	49.6	54.6	59.6	65.7	71.7	77.7	85	92	100	110	117	127	137	147	160	172	185	197	210	240
1.43	53.2	58.2	63.2	68.2	73.2	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
	...	37.3	42.3	47.3	52.4	58.4	64.4	70.4	77	85	92	102	110	120	130	140	152	165	178	190	203	233
1.45	56.0	61.0	66.0	71.0	76.0	82.0	88.0	94.0	101	108	116	126	133	143	153	163	176	188	201	213	226	256
	54.6	59.7	64.7	69.7	74.7	80.7	86.7	92.7	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.46	47.0	52.0	57.0	62.0	67.1	73.1	79.1	85.1	92	100	107	117	125	135	145	155	167	180	192	205	217	247
1.50	50.5	55.5	60.5	65.5	70.5	76.6	82.6	88.6	96	103	111	121	128	138	148	158	171	183	196	208	221	251
1.51	40.4	45.5	50.5	55.5	60.5	66.6	72.6	78.6	86	93	101	111	118	128	138	148	161	173	186	198	211	241
1.52	53.8	58.8	63.8	68.9	73.9	79.9	85.9	91.9	99	106	114	124	131	141	151	161	174	186	199	211	224	254
	52.2	57.3	62.3	67.3	72.3	78.3	84.3	90.3	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.53	55.2	60.2	65.2	70.2	75.2	81.2	87.2	93.2	100	108	115	125	133	143	153	163	175	188	200	213	225	255
1.56	47.8	52.8	57.8	62.8	67.8	73.8	79.8	85.8	93	100	108	118	125	135	145	155	168	180	193	205	218	248
1.59	41.1	46.2	51.2	56.2	61.3	67.3	73.3	79.3	86	94	101	111	119	129	139	149	161	174	186	199	211	241
	33.9	39.0	44.0	49.1	54.1	60.2	66.2	72.2	79	87	94	104	111	122	132	142	154	167	179	192	204	234
1.61	54.4	59.4	64.4	69.4	74.4	80.4	86.4	92.4	99	107	114	124	131	142	151	162	174	187	199	212	224	254
	51.3	56.3	61.3	66.3	71.3	77.3	83.3	89.3	96	104	111	121	129	139	149	159	171	184	196	209	221	251
1.62	52.8	57.9	62.9	67.9	72.9	78.9	84.9	90.9	98	105	113	123	130	140	150	160	173	185	198	210	223	253
	...	...	36.4	43.8	48.5	54.6	60.6	66.7	74	81	89	99	106	116	126	136	149	161	174	186	199	229
1.66	48.5	53.5	58.4	63.6	68.6	74.6	80.6	86.6	94	101	109	1119	126	136	146	156	169	181	194	206	219	249
	.92	.93	.94	.95	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11
1.67	41.9	46.9	52.0	57.0	62.0	68.0	74.1	80.1	87	95	102	112	120	130	140	150	162	175	187	200	212	242
1.68	34.7	39.8	44.9	50.0	55.0	61.0	67.1	73.1	80	88	95	105	113	123	133	143	155	168	180	193	205	235
1.71	...	58.4	63.4	68.4	73.4	79.4	85.4	91.4	98	106	113	123	131	141	151	161	173	186	198	211	223	253
	51.8	56.9	61.9	66.9	71.9	77.9	83.9	89.9	97	104	112	122	129	139	149	159	172	184	197	209	222	252
1.77	42.6	47.7	52.7	57.7	62.8	68.8	74.8	80.8	88	95	103	113	120	130	140	150	163	175	188	200	213	243
1.78	49.2	54.3	59.3	64.3	69.3	75.3	81.3	87.4	94	102	109	119	127	137	147	157	169	182	194	207	219	249
	35.6	40.7	45.8	50.8	55.9	61.9	68.0	74.0	81	89	96	106	114	124	134	144	156	169	181	194	206	236
1.79	...	34.9	40.0	45.1	50.2	56.3	62.4	68.4	76	83	91	101	108	118	128	138	151	163	176	186	201	231
1.80	52.4	57.4	62.4	67.4	72.4	78.4	84.4	90.5	97	105	112	122	130	140	150	160	172	185	197	210	225	252
	...	...	...	39.3	44.5	50.6	56.7	62.8	70	77	85	95	103	113	123	133	145	158	170	183	195	225
1.88	36.3	41.4	46.5	51.5	56.6	62.7	68.7	74.7	82	89	97	107	114	124	134	144	157	169	182	194	207	237
1.89	49.8	54.8	59.9	64.9	69.9	75.9	81.9	88.0	95	102	110	120	127	137	147	157	170	183	195	208	220	250
	43.3	48.4	53.4	58.5	63.5	69.5	75.5	81.6	89	96	104	114	121	131	141	151	164	176	189	201	214	244
1.90	...	35.7	40.9	46.0	51.1	57.2	63.2	69.3	76	84	91	101	109	119	129	139	152	164	177	189	202	232
1.98	36.9	42.1	47.2	52.2	57.3	63.4	69.4	75.5	82	90	98	108	115	125	135	145	158	170	183	195	208	238
2.00	50.3	55.4	60.4	65.4	70.4	76.5	82.5	88.5	95	103	111	120	128	138	148	158	171	183	196	208	221	251
	...	...	...	41.0	46.1	52.3	58.4	64.5	72	79	87	97	104	114	124	134	147	160	172	185	197	227
2.01	44.0	49.1	54.1	59.2	64.2	70.3	76.3	82.3	89	97	104	114	122	132	142	152	164	177	189	202	214	244
	...	36.5	41.7	46.8	51.9	58.0	64.1	70.2	77	85	92	102	110	120	130	140	152	165	178	190	203	233
2.10	37.6	42.8	47.9	53.0	58.0	64.1	70.2	76.2	83	91	98	108	116	126	136	146	158	171	183	196	209	237
2.11	...	...	36.5	41.8	47.0	53.1	59.3	65.4	72	80	88	98	105	115	125	135	148	160	173	185	198	228
2.12	...	37.2	42.4	47.5	52.6	58.7	64.8	70.9	78	85	93	103	111	121	131	141	153	166	178	191	203	233
2.15	...	...	...	...	...	42.6	48.9	55.1	62	70	78	88	95	105	115	126	138	151	163	176	188	218
2.16	44.7	44.8	54.9	59.9	64.9	71.0	77.0	83.1	90	98	105	115	123	133	143	153	165	178	190	203	215	245
2.23	38.3	43.5	48.6	53.7	58.7	64.8	70.9	76.9	84	91	99	109	117	127	137	147	159	172	184	197	209	239
2.24	...	37.8	43.0	48.2	53.3	59.4	65.5	71.6	79	86	94	104	111	121	131	141	154	167	179	192	204	234
	...	...	37.3	42.6	47.8	54.0	60.1	66.2	73	81	89	99	106	116	126	136	149	161	174	186	199	229
2.29	45.3	50.4	55.4	60.5	65.5	71.6	77.6	83.6	91	98	106	116	123	133	143	153	166	178	191	203	216	246
2.36	...	...	38.0	43.2	48.4	54.6	60.8	66.9	74	82	89	99	107	117	127	137	150	162	175	187	120	230
2.37	33.2	38.5	43.7	48.9	54.0	60.1	66.2	72.3	79	87	95	105	112	122	132	142	155	167	180	192	205	235
	.89	.90	.91	.92	.93	.94	.96	.96	.98	.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.11

SHEAVES PAGES PT7–2-PT7–27	BELTS PAGES PT7–28-PT7–41	SELECTION: CLASSICAL PAGES PT7–84-PT7–123	ENGINEERING/TECHNICAL PAGES PT7–123-PT7–128

DODGE®



8V D-V Wedge & POLYBAND Belts

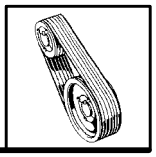
STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves (4, 5, 6, 8, 10, 12 Grooves) Outside Diameter		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance (Con't. opposite page)							
	Driver	Driven	Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	8VX 1250	8VX 1320	8VX 1400	8VX 1500	8VX 1600	8VX 1700	8VX 1800	8VX 1900
2.38	22.4	53.0	...	...	...	...	366	88.8	...	...	...	...	...	...	...	...
2.39	15.0	35. 5	...	...	486	65.1	365	53.	...	...	...	33.8	39.0	44.1	49.3	54.4
2.42	12.5	30.0	722	60.5	479	48.9	359	39.8	27.7	31.4	35.5	40.7	45.8	50.9	55.9	61.0
2.49	18.0	44.5	...	...	466	82.4	350	68.6	...	...	...	...	...	...	38.6	43.9
2.51	21.2	53.0	...	...	461	97.9	346	83.6	...	...	...	...	...	...	...	...
2.52	16.0	40.0	...	...	461	71.2	345	58.6	...	...	...	...	33.9	39.2	44.4	49.6
2.55	24.8	63.0	...	...	...	...	341	98.6	...	...	...	...	...	...	...	...
2.56	14.0	35.5	684	71.3	453	58.9	340	48.0	...	...	29.1	34.4	39.7	44.8	50.0	55.1
2.64	17.0	44.5	...	...	440	77.0	330	63.7	...	...	...	...	...	...	39.3	44.6
2.67	20.0	53.0	...	...	435	92.5	326	78.2	...	...	...	...	...	...	...	...
2.69	15.0	40.0	...	...	431	65.2	324	53.4	...	...	...	...	34.5	39.8	45.1	50.2
2.72	13.2	35.5	644	65.	427	53.7	320	43.7	...	...	29.7	35.0	40.2	45.4	50.5	55.6
2.80	16.0	44.5	...	...	414	71.	310	58.6	...	...	...	...	...	34.5	39.9	45.2
2.81	19.0	53.0	...	...	413	87.7	310	73.5	...	...	...	...	...	...	...	...
2.83	22.4	63.0	...	...	...	...	308	88.9	...	...	...	...	...	...	...	...
2.87	12.5	35.5	610	60.	404	49.	303	39.8	...	...	30.1	35.4	40.7	45.9	51.0	56.1
2.88	14.0	40.0	607	71.4	402	58.	302	48.1	...	...	...	...	35.2	40.5	45.7	50.9
	24.8	71.0	...	...	...	...	302	98.6	...	...	...	...	...	...	...	...
2.97	18.0	53.0	...	...	391	82.	293	68.7	...	...	...	...	...	...	...	...
2.99	15.0	44.5	...	...	388	65.2	291	53.4	...	...	...	...	...	35.2	40.6	45.9
ARC-LENGTH CORRECTION FACTOR ▶									.80	.81	.82	.83	.86	.87	.88	.90
2.99	21.2	63.0	...	...	388	98.0	291	83.7	...	...	...	...	...	...	...	...
3.06	13.2	40.0	572	65.9	379	53.7	284	43.7	...	...	...	30.2	35.7	41.0	46.3	51.5
3.14	17.0	53.0	...	...	369	77.0	277	63.7	...	...	...	...	...	...	...	...
3.17	20.0	63.0	...	...	366	92.6	274	78.2	...	...	...	...	...	...	...	...
3.19	22.4	71.0	...	...	...	...	273	88.9	...	...	...	...	...	...	...	...
3.21	14.0	44.5	545	71.4	361	58.9	271	48.1	...	...	...	...	...	35.8	41.2	46.6
3.24	12.5	40.0	541	60.7	358	49.0	269	39.9	...	...	...	30.7	36.2	41.5	46.7	51.9
3.34	16.0	53.0	...	...	347	71.3	260	58.7	...	...	...	...	...	...	...	...
	19.0	63.0	...	...	347	87.7	260	73.6	...	...	...	...	...	...	...	...
3.37	21.2	71.0	...	...	344	98.0	258	83.7	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR ▶									...	...	...	.78	.82	.85	.87	.88
3.41	13.2	44.5	514	65.9	340	53.8	255	43.7	...	...	...	...	...	36.3	41.7	47.1
3.53	18.0	63.0	...	...	329	82.6	247	68.7	...	...	...	...	...	...	...	...
3.57	15.0	53.0	...	...	325	65.3	244	53.5	...	...	...	...	...	...	...	...
3.58	20.0	71.0	...	...	324	92.6	243	78.3	...	...	...	...	...	...	...	...
3.60	12.5	44.5	486	60.7	322	49.1	242	39.9	...	...	...	...	...	36.7	42.2	47.5
ARC-LENGTH CORRECTION FACTOR ▶									...	...	...	...	...	.81	.84	.88
3.74	17.0	63.0	...	...	310	77.1	233	63.8	...	...	...	...	...	...	...	...
3.77	19.0	71.0	...	...	308	87.8	231	73.6	...	...	...	...	...	...	...	...
3.83	14.0	53.0	457	71.5	303	59.0	227	48.1	...	...	...	...	...	...	...	37.3
3.97	16.0	63.0	...	...	292	71.3	219	58.7	...	...	...	...	...	...	...	...
3.98	18.0	71.0	...	...	292	82.6	219	68.8	...	...	...	...	...	...	...	...
4.06	13.2	53.0	431	66.0	286	53.8	214	43.8	...	...	...	...	...	...	...	...
4.21	17.0	71.0	...	...	275	77.1	206	63.8	...	...	...	...	...	...	...	...
4.24	15.0	63.0	...	...	273	65.1	205	53.5	...	...	...	...	...	...	...	...
4.29	12.5	53.0	408	60.8	270	49.1	203	39.9	...	...	...	...	...	...	...	38.2
4.48	16.0	71.0	...	...	259	71.3	194	58.7	...	...	...	...	...	...	...	...
4.55	14.0	63.0	385	71.5	255	59.0	191	48.1	...	...	...	...	...	...	...	...
4.78	15.0	71.0	...	...	242	65.3	182	53.5	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR ▶									...	...	...	...	...	...	...	.77
4.83	13.2	63.0	362	66.0	240	53.8	180	43.8	...	...	...	...	...	...	...	...
5.11	12.5	63.0	343	60.8	227	49.1	170	39.9	...	...	...	...	...	...	...	...
5.13	14.0	71.0	341	71.5	226	59.0	170	48.1	...	...	...	...	...	...	...	...
5.45	13.2	71.0	321	66.0	213	53.8	160	43.8	...	...	...	...	...	...	...	...
5.76	12.5	71.0	304	60.8	202	49.1	151	39.9	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR ▶									...	...	...	...	...	...	...	...

NOTES: Arc & Length factors are approximate values
Refer to Selection Procedure for more precise calculations

SHEAVES PAGES PT7-2-PT7-27	BELTS PAGES PT7-28-PT7-41	SELECTION: CLASSICAL PAGES PT7-84-PT7-123	ENGINEERING/TECHNICAL PAGES PT7-123-PT7-128

DODGE®

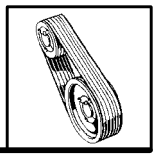


8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																	
	8VX 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
2.38	...	44.1	50.5	56.7	64	72	79	89	97	107	117	127	140	152	165	178	190	220
2.39	59.5	65.5	71.6	77.7	85	92	100	110	117	127	137	147	160	172	185	197	210	240
2.42	66.0	72.1	78.1	84.2	91	99	106	116	124	134	144	154	166	179	191	204	216	246
2.49	49.1	55.3	61.5	67.6	75	82	90	100	108	118	128	138	150	163	175	188	200	230
2.51	...	44.9	51.3	57.5	65	72	80	90	98	108	118	128	141	153	166	178	191	221
2.52	54.7	60.8	66.9	73.0	80	88	95	105	113	123	133	143	156	168	181	193	206	236
2.55	...	...	...	...	53	60	68	79	86	97	107	117	130	142	156	167	180	210
2.56	60.2	66.3	72.3	78.4	85	93	100	111	118	128	138	148	161	173	186	198	211	241
2.64	49.8	56.0	62.2	68.3	75	83	91	101	108	118	128	138	151	164	176	189	201	231
2.67	...	45.7	52.1	58.3	66	73	81	91	99	109	119	129	142	154	167	179	192	222
2.69	55.4	61.5	67.6	73.7	81	88	96	106	114	124	134	144	156	168	181	194	206	236
2.72	60.7	66.8	72.9	79.0	86	94	101	111	119	129	139	149	161	174	186	199	211	241
2.80	50.5	56.7	62.9	69.0	76	84	91	101	109	119	129	139	152	164	177	189	202	232
2.81	39.8	46.3	52.7	59.0	66	74	82	92	99	110	120	130	142	155	168	180	193	223
2.83	...	...	...	46.5	54	62	70	80	88	98	108	119	131	144	157	169	182	212
2.87	61.2	67.3	73.4	79.5	86	94	102	112	119	129	139	149	162	174	187	199	212	242
2.88	56.1	62.2	68.4	74.5	82	89	97	107	114	124	134	144	157	170	182	195	207	237
	...	...	...	...	...	52	60	71	79	89	100	110	123	135	148	161	173	203
2.97	40.5	47.0	53.4	59.7	67	75	82	93	100	110	120	131	143	156	168	181	193	224
2.99	51.1	57.4	63.6	59.7	77	84	92	102	110	120	130	140	153	165	178	190	203	233
	.92	.93	.94	.95	.96	.97	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10
2.99	...	...	...	47.2	55	63	71	81	89	99	109	119	132	145	157	170	183	213
3.06	56.6	62.8	68.9	75.0	82	90	97	107	115	125	135	145	158	170	183	195	208	238
3.14	41.4	47.6	54.0	60.3	68	75.	83	93	101	111	121	131	144	156	169	182	194	224
3.17	...	...	...	48.0	56	64	72	82	90	100	110	120	133	146	158	171	184	214
3.19	...	...	...	...	...	54	62	73	81	91	101	111	124	137	150	162	175	205
3.21	51.8	58.1	64.2	70.4	78	85	93	103	111	121	131	141	153	166	178	191	203	234
3.24	57.1	63.3	69.4	75.5	83	90	98	108	115	125	136	146	158	171	183	196	208	233
3.34	41.7	48.3	54.7	61.0	68	76	84	94	102	112	122	132	145	157	170	182	195	225
	...	...	...	48.6	56	64	72	83	90	101	111	121	134	146	159	172	184	214
3.37	...	...	...	...	...	54	63	73	81	92	102	112	125	138	150	163	176	206
	.90	.91	.93	.94	.95	.97	.96	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10
3.41	52.3	58.6	64.8	71.0	78	86	93	104	111	121	131	141	154	166	179	191	204	234
3.53	...	...	...	49.2	57	65	73	83	91	101	112	122	134	147	160	172	185	215
3.57	42.3	48.9	55.3	61.7	69	77	84	95	102	112	123	133	145	158	170	183	196	226
3.58	...	...	...	...	...	55	63	74	82	92	103	113	126	139	151	164	177	207
3.60	52.8	59.1	65.3	71.4	79	86	94	104	112	122	132	142	154	167	179	192	204	235
	.88	.90	.91	.93	.94	.96	.97	.98	.99	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10
3.74	...	...	...	49.9	58	66	74	84	92	102	112	122	135	148	160	173	186	216
3.77	...	...	...	...	...	56	64	75	83	93	104	114	127	139	152	165	177	208
3.83	43.0	49.5	56.0	62.3	70	77	85	95	103	113	123	133	146	159	171	184	196	226
3.97	...	...	43.6	50.5	58	66	74	85	92	103	113	123	135	149	161	174	186	217
3.98	...	...	...	...	...	56	65	75	83	94	104	114	127	140	153	165	178	208
4.06	43.4	50.1	56.5	62.9	70	78	86	96	104	114	124	134	147	159	172	184	197	227
4.21	...	...	...	...	48	57	65	76	84	94	105	115	128	141	153	166	179	209
4.24	...	...	44.2	51.1	59	67	75	85	93	103	114	124	137	149	162	175	187	217
4.29	43.9	50.5	57.0	63.3	71	78	86	96	104	114	124	134	147	160	172	185	197	228
4.48	...	...	...	...	49	58	66	77	85	95	106	116	129	141	154	167	180	210
4.55	...	...	44.8	51.7	59	68	76	86	94	104	114	125	137	150	163	175	188	218
4.78	...	...	...	...	49	58	67	77	85	96	106	117	129	142	155	168	180	211
	.81	.85	.87	.89	.91	.93	.95	.96	.98	.99	1.00	1.01	1.03	1.04	1.05	1.06	1.07	1.09
4.83	...	...	45.3	52.2	60	68	76	87	94	105	115	125	138	151	163	176	188	219
5.11	...	...	45.7	52.6	60	69	76	87	95	105	115	126	138	151	164	176	189	219
5.13	...	...	...	...	50	59	67	78	86	96	107	117	130	143	156	168	181	211
5.45	...	...	...	...	51	59	68	79	86	97	107	118	131	143	156	169	182	2120
5.76	...	...	...	...	51	60	68	79	87	97	108	118	131	144	157	169	182	212
	...	...	.79	.80	.82	.84	.87	.91	.93	.95	.97	.98	1.00	1.02	1.03	1.04	1.05	1.08

SHEAVES PAGES PT7-2-PT7-27	BELTS PAGES PT7-28-PT7-41	SELECTION: CLASSICAL PAGES PT7-84-PT7-123	ENGINEERING/TECHNICAL PAGES PT7-123-PT7-128



8V BASIC HORSEPOWER RATINGS▲

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:												Additional HP per Belt for Speed Ratio of:†								
	12.5	13.2	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.2	22.4	24.8	1.02 to 1.05	1.06 to 1.11	1.12 to 1.18	1.19 to 1.26	1.27 to 1.38	1.39 to 1.57	1.58 to 1.94	1.95 to 3.38	3.39 and up
435	20.1	22.3	24.8	27.8	30.9	33.9	36.8	39.8	42.7	46.2	49.7	56.4	.20	.56	.97	1.32	1.60	1.87	2.11	2.30	2.43
485	22.0	24.4	27.1	30.5	33.8	37.1	40.4	43.6	46.9	50.7	54.4	61.8	.23	.62	1.08	1.47	1.78	2.09	2.35	2.56	2.71
585	25.7	28.5	31.7	35.6	39.5	43.4	47.2	50.9	54.6	59.0	63.3	71.6	.27	.75	1.30	1.77	2.15	2.52	2.83	3.09	3.27
690	29.3	32.6	36.2	40.7	45.2	49.5	53.8	58.0	62.2	67.0	71.8	80.9	.32	.88	1.54	2.09	2.54	2.97	3.34	3.64	3.86
725	30.5	33.8	37.6	42.3	46.9	51.5	55.9	60.3	64.5	69.5	74.4	83.7	.34	.93	1.61	2.20	2.67	3.12	3.51	3.83	4.06
870	35.0	38.9	43.2	48.6	53.8	58.9	63.9	68.7	73.4	78.8	84.0	93.8	.41	1.11	1.94	2.64	3.20	3.74	4.22	4.59	4.87
950	37.3	41.4	46.0	51.7	57.2	62.6	67.7	72.8	77.6	83.1	88.4	98.1	.45	1.21	2.11	2.88	3.49	4.09	4.60	5.02	5.32
1160	42.6	47.3	52.5	58.8	64.8	70.6	76.1	81.2	86.1	91.5	96.5	104.8	.54	1.48	2.58	3.52	4.27	4.99	5.62	6.13	6.49
1425	47.6	52.7	58.4	65.0	71.2	76.9	82.1	86.8	90.9	95.0	98.3	102.1	.67	1.82	3.17	4.32	5.24	6.13	6.91	7.52	7.97
1750	50.9	56.1	61.7	67.9	73.3	77.8	81.5	84.2	85.8	86.5	...	...	.82	2.24	3.90	5.30	6.44	7.53	8.48	9.24	9.79
50	3.01	3.31	3.64	4.06	4.47	4.88	5.30	5.70	6.11	6.60	7.09	8.0	.02	.06	.11	.15	.18	.22	.24	.26	.28
100	5.59	6.15	6.79	7.59	8.38	9.17	9.96	10.7	11.5	12.5	13.4	15.2	.05	.13	.22	.30	.37	.43	.48	.53	.56
150	8.00	8.82	9.76	10.9	12.1	13.2	14.4	15.5	16.6	18.0	19.4	22.0	.07	.19	.33	.45	.55	.65	.73	.79	.84
200	10.3	11.4	12.6	14.1	15.6	17.1	18.6	20.1	21.6	23.3	25.1	28.6	.09	.26	.45	.61	.74	.86	.97	1.06	1.12
250	12.5	13.8	15.3	17.2	19.0	20.9	22.7	24.5	26.3	28.5	30.7	34.9	.12	.32	.56	.76	.92	1.08	1.21	1.32	1.40
300	14.6	16.2	18.0	20.2	22.4	24.5	26.7	28.8	31.0	33.5	36.0	41.0	.14	.38	.67	.91	1.10	1.29	1.45	1.58	1.68
350	16.7	18.5	20.5	23.1	25.6	28.1	30.5	33.0	35.4	38.3	41.2	46.9	.16	.45	.78	1.06	1.29	1.51	1.70	1.85	1.96
400	18.7	20.7	23.0	25.9	28.7	31.5	34.3	37.0	39.8	43.0	46.3	52.6	.19	.51	.89	1.21	1.47	1.72	1.94	2.11	2.24
450	20.7	22.9	25.5	28.6	31.8	34.9	37.9	41.0	44.0	47.6	51.1	58.1	.21	.58	1.00	1.36	1.66	1.94	2.18	2.38	2.52
500	22.6	25.0	27.8	31.3	34.7	38.1	41.5	44.8	48.1	51.9	55.8	63.3	.23	.64	1.11	1.52	1.84	2.15	2.42	2.64	2.80
550	24.4	27.1	30.1	33.9	37.6	41.3	44.9	48.5	52.0	56.2	60.3	68.3	.26	.70	1.22	1.67	2.02	2.37	2.67	2.90	3.08
600	26.2	29.1	32.4	36.4	40.4	44.3	48.2	52.0	55.8	60.2	64.6	73.0	.28	.77	1.34	1.82	2.21	2.58	2.91	3.17	3.36
650	28.0	31.0	34.5	38.8	43.1	47.2	51.4	55.4	59.4	64.1	68.7	77.5	.31	.83	1.45	1.97	2.39	2.80	3.15	3.43	3.64
700	29.7	32.9	36.6	41.2	45.7	50.1	54.4	58.7	62.9	67.8	72.6	81.7	.33	.89	1.56	2.12	2.57	3.01	3.39	3.70	3.92
750	31.3	34.7	38.7	43.5	48.2	52.8	57.4	61.8	66.2	71.3	76.2	85.6	.35	.96	1.67	2.27	2.76	3.23	3.63	3.96	4.20
800	32.9	36.5	40.6	45.7	50.6	55.4	60.2	64.8	69.3	74.6	79.6	89.3	.38	1.02	1.78	2.43	2.94	3.44	3.88	4.22	4.48
850	34.4	38.2	42.5	47.8	52.9	57.9	62.8	67.6	72.3	77.6	82.8	92.5	.40	1.09	1.89	2.58	3.13	3.66	4.12	4.49	4.76
900	35.9	39.8	44.3	49.8	55.1	60.3	65.4	70.3	75.0	80.5	85.8	95.5	.42	1.15	2.00	2.73	3.31	3.87	4.36	4.75	5.04
950	37.3	41.4	46.0	51.7	57.2	62.6	67.7	72.8	77.6	83.1	88.4	98.1	.45	1.21	2.11	2.88	3.49	4.09	4.60	5.02	5.32
1000	38.7	42.9	47.7	53.5	59.2	64.7	70.0	75.1	80.0	85.6	90.8	100.3	.47	1.28	2.23	3.03	3.68	4.30	4.85	5.28	5.60
1050	39.9	44.4	49.3	55.3	61.1	66.7	72.1	77.2	82.1	87.7	92.9	102.2	.49	1.34	2.34	3.18	3.86	4.52	5.09	5.54	5.88
1100	41.2	45.7	50.8	56.9	62.9	68.5	74.0	79.2	84.1	89.6	94.7	103.6	.52	1.41	2.45	3.33	4.05	4.73	5.33	5.81	6.16
1150	42.3	47.0	52.2	58.5	64.5	70.2	75.7	80.9	85.9	91.2	96.2	104.6	.54	1.47	2.56	3.49	4.23	4.95	5.57	6.07	6.44
1200	43.5	48.2	53.5	59.9	65.0	71.8	77.3	82.5	87.3	92.6	97.4	105.2	.56	1.53	2.67	3.64	4.41	5.17	5.82	6.34	6.71
1250	44.5	49.4	54.8	61.2	67.4	73.2	78.7	83.8	88.5	93.7	98.2	105.4	.59	1.60	2.78	3.79	4.60	5.38	6.06	6.60	6.99
1300	45.5	50.4	55.9	62.5	68.7	74.5	79.9	84.9	89.5	94.5	98.7	105.1	.61	1.66	2.89	3.94	4.78	5.60	6.30	6.86	7.27
1350	46.4	51.4	57.0	63.6	69.8	75.6	80.9	85.8	90.3	94.9	98.8	104.3	.63	1.73	3.01	4.09	4.97	5.81	6.54	7.13	7.55
1400	47.2	52.3	57.9	64.5	70.8	76.5	81.7	86.5	90.7	95.1	98.6	102.9	.66	1.79	3.12	4.24	5.15	6.03	6.78	7.39	7.83
1450	48.0	53.1	58.8	65.4	71.6	77.2	82.4	86.9	90.9	94.9	98.0	101.1	.68	1.85	3.23	4.40	5.33	6.24	7.03	7.66	8.11
1500	48.7	53.9	59.5	66.2	72.3	77.8	82.8	87.1	90.8	94.4	97.0	98.8	.70	1.92	3.34	4.55	5.52	6.46	7.27	7.92	8.39
1550	49.3	54.5	60.2	66.8	72.8	78.2	83.0	87.1	90.5	93.6	95.5	95.9	.73	1.98	3.45	4.70	5.70	6.67	7.51	8.18	8.67
1600	49.8	55.1	60.7	67.2	73.2	78.4	82.9	86.7	89.8	92.3	93.7	...	.75	2.05	3.56	4.85	5.88	6.89	7.75	8.45	8.95
1650	50.2	55.5	61.1	67.6	73.4	78.4	82.7	86.2	88.8	90.8	91.4	...	.77	2.11	3.67	5.00	6.07	7.10	8.00	8.71	9.23
1700	50.6	55.9	61.5	67.8	73.4	78.2	82.2	85.3	87.5	88.8	88.7	...	.80	2.17	3.78	5.15	6.25	7.32	8.24	8.98	9.51
1800	51.2	56.3	61.7	67.8	73.0	77.2	80.5	82.7	83.9	83.7	...	...	.84	2.30	4.01	5.46	6.62	7.75	8.72	9.5	10.1
1900	51.2	56.3	61.5	67.2	71.8	75.4	77.8	79.0	78.9	...	...	...	.89	2.43	4.23	5.76	6.99	8.18	9.21	10.0	10.6
2000	51.0	55.9	60.8	65.9	69.9	72.6	74.0	74.0	...	...	...	...	.94	2.56	4.45	6.06	7.36	8.61	9.69	10.6	11.2
2200	49.4	53.7	57.7	61.5	63.7	64.2	...	...	...	...	...	...	1.03	2.81	4.90	6.67	8.09	9.47	10.7	11.6	12.3
2400	46.0	49.5	52.4	54.2	54.1	...	...	...	...	...	...	...	1.13	3.07	5.34	7.28	8.83	10.3	11.6	12.7	13.4
2600	40.9	43.2	44.5	...	...	...	...	...	...	...	...	...	1.22	3.32	5.79	7.88	9.56	11.2	12.6	13.7	14.5

Shaded Areas indicate rim speeds exceeding 6500 FPM which require higher strength sheaves.

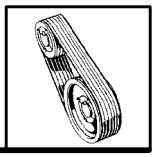
TOTAL RATING = Rated HP + "additional HP" from right hand column.

† Additional HP below 1.02 ratio equals zero.

▲ Subject to Arc and Length Correction Factors on page PT7–47.

SHEAVES PAGES PT7–2-PT7–27	BELTS PAGES PT7–28-PT7–41	SELECTION: CLASSICAL PAGES PT7–84-PT7–123	ENGINEERING/TECHNICAL PAGES PT7–123-PT7–128

DODGE®



5VF BASIC HORSEPOWER RATINGS▲
Aramide Cord Belt
SEE CAUTION BELOW

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:														Additional HP per Belt for Speed Ratio of:†				
	7.1	8.0	8.5	9.0	9.75	10.3	10.9	11.3	11.8	12.5	13.2	14.0	15.0	16.0	1.02 to 1.20	1.21 to 1.50	1.51 to 2.19	2.20 to 3.32	3.33 and up
200	3.55	4.42	4.91	5.39	6.11	6.63	7.2	7.58	8.05	8.71	9.36	10.1	11.0	11.9	.10	.24	.33	.37	.38
300	5.01	6.29	6.99	7.69	8.74	9.5	10.3	10.9	11.5	12.5	13.5	14.5	15.9	17.2	.15	.36	.50	.55	.57
400	6.39	8.05	8.97	9.88	11.2	12.2	13.3	14.0	14.9	16.1	17.4	18.8	20.5	22.2	.19	.47	.66	.74	.76
500	7.71	9.74	10.9	12.0	13.6	14.8	16.2	17.0	18.1	19.6	21.1	22.8	24.9	27.0	.24	.59	.83	.92	.94
600	8.96	11.4	12.7	14.0	15.9	17.4	18.9	19.9	21.2	23.0	24.8	26.7	29.2	31.7	.29	.71	.99	1.11	1.13
700	10.2	12.9	14.4	15.9	18.2	19.8	21.6	22.8	24.2	26.3	28.3	30.5	33.3	36.1	.34	.83	1.16	1.29	1.32
800	11.3	14.4	16.1	17.8	20.4	22.2	24.2	25.5	27.1	29.4	31.6	34.2	37.3	40.4	.39	.95	1.32	1.48	1.51
900	12.4	15.9	17.8	19.7	22.5	24.5	26.7	28.2	29.9	32.4	34.9	37.7	41.1	44.5	.44	1.07	1.49	1.66	1.70
1000	13.5	17.3	19.4	21.5	24.5	26.7	29.1	30.7	32.7	35.4	38.0	41.1	44.8	48.4	.49	1.18	1.65	1.85	1.89
1100	14.6	18.7	20.9	23.2	26.5	28.9	31.5	33.2	35.3	38.2	41.1	44.3	48.2	52.1	.53	1.30	1.82	2.03	2.08
1200	15.6	20.0	22.4	24.8	28.4	30.9	33.7	35.5	37.8	40.9	43.9	47.4	51.5	55.6	.58	1.42	1.99	2.22	2.27
1300	16.6	21.3	23.9	26.4	30.2	32.9	35.9	37.8	40.2	43.5	46.7	50.3	54.7	58.9	.63	1.54	2.15	2.40	2.45
1400	17.5	22.5	25.3	28.0	32.0	34.9	37.9	40.0	42.5	45.9	49.3	53.0	57.6	61.9	.68	1.66	2.32	2.59	2.64
1600	19.3	24.9	27.9	30.9	35.3	38.5	41.8	44.1	46.8	50.5	54.1	58.1	62.8	67.3	.78	1.89	2.65	2.96	3.02
1800	20.9	27.0	30.3	33.6	38.4	41.7	45.4	47.7	50.6	54.5	58.2	62.3	67.2	71.6	.88	2.13	2.98	3.32	3.40
2000	22.4	29.0	32.6	36.0	41.1	44.7	48.5	50.9	53.9	57.9	61.7	65.8	70.5	74.8	.97	2.37	3.31	3.69	3.78
2200	23.8	30.8	34.5	38.2	43.5	47.2	51.2	53.7	56.7	60.7	64.5	68.5	72.9	76.7	1.07	2.60	3.64	4.06	4.15
2400	24.9	32.4	36.3	40.1	45.6	49.4	53.4	55.9	58.9	62.8	65.5	70.2	74.1	77.3	1.17	2.84	3.97	4.43	4.53
2600	26.0	33.7	37.8	41.7	47.3	51.1	55.1	57.6	60.5	64.3	67.6	70.9	...	...	1.26	3.08	4.30	4.80	4.91
2800	26.9	34.8	39.0	43.0	48.6	52.4	56.3	58.7	61.4	64.9	67.8	...	...	...	1.36	3.31	4.63	5.17	5.29
3000	27.6	35.8	40.0	44.0	49.6	53.3	56.9	59.2	61.7	64.7	...	...	...	...	1.46	3.55	4.96	5.54	5.66
3200	28.1	36.4	40.7	44.6	50.1	53.6	57.0	59.0	61.2	...	...	...	...	...	1.56	3.79	5.30	5.91	6.04
3400	28.4	36.8	41.0	44.9	50.1	53.4	56.5	58.2	...	...	...	...	...	...	1.65	4.02	5.63	6.28	6.42
3600	28.6	36.9	41.1	44.8	49.7	52.7	...	...	...	...	...	...	...	...	1.75	4.26	5.96	6.65	6.80

8VF
SEE CAUTION BELOW

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:												Additional HP per Belt for Speed Ratio of:†				
	12.5	13.2	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.2	22.4	24.8	1.02 to 1.20	1.21 to 1.50	1.51 to 2.19	2.20 to 3.32	3.33 and up
200	12.6	14.5	16.6	19.3	21.9	24.6	27.2	29.8	32.433	35.5	38.6	44.7	.59	1.43	2.00	2.24	2.29
250	15.0	17.4	20.0	23.3	26.5	29.7	33.0	36.2	39.4	43.2	46.9	54.5	.74	1.79	2.51	2.80	2.86
300	17.4	20.1	23.2	27.1	30.9	34.7	38.5	42.3	46.1	50.5	55.0	63.8	.88	2.15	3.01	3.36	3.43
350	19.6	22.7	26.3	30.7	35.2	39.6	43.9	48.3	52.6	57.7	62.8	72.9	1.03	2.51	3.51	3.91	4.00
400	21.7	25.2	29.3	34.3	39.3	44.2	49.1	54.0	58.9	64.6	70.4	81.7	1.18	2.87	4.01	4.47	4.57
450	23.7	27.7	32.2	37.7	43.2	48.7	54.2	59.6	65.0	71.4	77.7	90.2	1.33	3.23	4.51	5.03	5.15
500	25.6	30.0	34.9	41.0	47.1	53.1	59.1	65.0	70.9	77.8	84.8	98.4	1.47	3.58	5.01	5.59	5.72
600	29.3	34.4	40.1	47.3	54.4	61.4	68.4	75.3	82.2	90.2	98.2	113.9	1.77	4.30	6.01	6.71	6.86
700	32.6	38.4	45.0	51.2	61.2	69.2	77.1	84.9	92.6	101.7	110.7	128.1	2.06	5.02	7.01	7.83	8.00
800	35.6	42.1	49.5	58.6	67.6	76.5	85.2	93.8	102.3	112.3	122.1	141.1	2.36	5.73	8.02	8.95	9.15
900	38.3	45.5	53.6	63.6	73.5	83.1	92.7	102.0	111.2	121.9	132.4	152.5	2.65	6.45	9.02	10.1	10.3
1000	40.7	48.5	57.4	68.2	78.8	89.2	99.4	109.4	119.1	130.5	141.5	162.4	2.95	7.17	10.0	11.2	11.4
1100	42.9	51.3	60.7	72.3	83.6	94.7	105.5	116.0	126.2	138.0	149.4	170.7	3.24	7.89	11.0	12.3	12.6
1200	44.7	53.7	63.7	75.9	87.9	99.5	110.8	121.7	132.2	144.4	155.9	177.3	3.53	8.60	12.0	13.4	13.7
1300	46.2	55.7	66.3	79.2	91.6	103.7	115.3	126.5	137.3	149.5	161.1	181.9	3.83	9.32	13.1	14.5	14.8
1400	47.4	57.3	68.4	81.8	94.7	107.1	119.0	130.4	141.2	153.4	164.7	184.5	4.12	10.1	14.1	15.7	16.0
1500	48.3	58.6	70.1	83.9	97.1	109.8	121.8	133.2	143.9	155.8	165.7	184.9	4.42	10.7	15.0	16.8	17.1
1600	48.8	59.5	71.3	85.4	98.9	111.7	123.7	135.0	145.4	156.8	167.0	...	4.71	11.5	16.0	17.9	18.3
1700	49.0	59.0	72.0	86.4	100.0	112.8	124.7	135.7	145.6	156.3	165.5	...	5.01	12.2	17.0	19.0	19.4
1800	48.8	60.0	72.2	86.8	100.4	113.0	124.6	135.1	144.5	154.2	...	...	5.30	12.9	18.0	20.1	20.6
1900	48.2	59.5	71.9	86.5	100.0	112.4	123.5	133.4	141.9	...	...	...	5.60	13.6	19.0	21.2	21.7
2000	47.2	58.7	71.1	85.6	98.8	110.7	121.3	130.3	...	...	...	...	5.89	14.3	20.0	22.3	22.8
2100	45.8	57.3	69.7	84.0	96.8	108.1	117.9		...	...	...	...	6.19	15.0	21.0	23.5	24.0
2200	43.9	55.5	67.7	81.7	94.0	104.5	...	...	...	...	...	...	6.48	15.8	22.0	24.6	25.1

Shaded Areas indicate rim speeds exceeding 6500 FPM which require higher strength sheaves.

▲ Subject to Arc and Length Correction Factors on page PT7–47.

TOTAL RATING = Rated HP + "additional HP" from right hand column.

† Additional HP below 1.02 ratio equals zero.

CAUTION: Belt horsepower ratings may exceed design capacity of stock sheaves. Consult factory for recommendations.

SHEAVES PAGES PT7–2-PT7–27	BELTS PAGES PT7–28-PT7–41	SELECTION: CLASSICAL PAGES PT7–84-PT7–123	ENGINEERING/TECHNICAL PAGES PT7–123-PT7–128