

V-Belts Design Data

Belt Section	Diameters of Pulleys For V-Belt
A	90, 100, 125, 132, 140, 150, 160, 170, 180, 190, 200, and over
B	125, 132, 140, 150, 160, 170, 180, 190, 200, 212, 224, 236, 250, 265, 280, and over
C	200, 212, 224, 236, 250, 265, 280, 300, 315, 355, 375, 400, and over
D	315, 355, 375, 400, 425, 450, 475, 500, 530, 560, 600, 630, and over
E	500, 530, 560, 600, 630, 670, 710, 750, 800, 900, 1000, and over

Table 1 (Standard Diameters of V-Belt Pulleys)

Speed Ratio	Small Diameter Factor (K_e)
1.000 to 1.019	1.00
1.020 to 1.032	1.01
1.033 to 1.055	1.02
1.056 to 1.081	1.03
1.082 to 1.109	1.04
1.110 to 1.142	1.05
1.143 to 1.178	1.06
1.179 to 1.222	1.07
1.223 to 1.274	1.08
1.275 to 1.340	1.09
1.341 to 1.429	1.10
1.430 to 1.562	1.11
1.563 to 1.814	1.12
1.815 to 2.948	1.13
2.949 and over	1.14

Table 2 (Small Diameter Factor K_e)

Pitch Lengths of belts	
Belt Type	Pitch lengths of belt, mm.
A	645, 696, 747, 823, 848, 925, 950, 1001, 1026, 1051, 1102, 1128, 1204, 1255, 1331, 1433, 1458, 1509, 1560, 1636, 1661, 1687, 1763, 1814, 1941, 2017, 2068, 2093, 2195, 2322, 2474, 2703, 2880, 3084, 3287, 3693.
B	932, 1008, 1059, 1110, 1212, 1262, 1333, 1415, 1440, 1466, 1567, 1694, 1770, 1821, 1948, 2024, 2101, 2202, 2329, 2507, 2583, 2710, 2888, 3091, 3294, 3701, 4056, 4158, 4437, 4615, 4996, 5177.
C	1275, 1351, 1453, 1580, 1681, 1783, 1834, 1961, 2088, 2113, 2215, 2342, 2494, 2723, 2901, 3104, 3205, 3307, 3459, 3713, 4069, 4171, 4450, 4628, 5009, 5390, 6101, 6863, 7625, 8387, 9149.
D	3127, 3333, 3736, 4092, 4194, 4473, 4651, 5032, 5413, 6124, 6886, 7648, 8410, 9172, 9934, 10696, 12220, 13744, 15268, 16792.
E	5426, 6137, 6899, 7661, 8423, 9185, 9947, 10709, 12233, 13757, 15283, 16805.

Table 3 (Pitch Lengths of Belts)