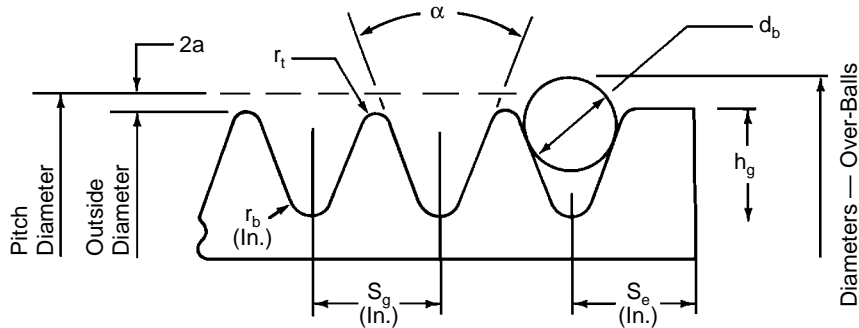


Micro-V[®] Belt Sheave Specifications

Sheave Groove Dimensions



Where: Face Width = $S_g (N_g - 1) + 2S_e$
 N_g = Number of grooves

Table No. 81 Sheave Groove Dimension

Cross Section	Minimum Recommended Outside Diameter (In.)	α Groove Angle (± 0.25) (°)	S_g^* (In.)	r_t + 0.005 - 0.000 (In.)	a (In.)	r_b (In.)	h_g Min. (In.)	d_b ± 0.0005 (In.)	S_e (In.)
J	0.80	40	0.092 ± 0.001	0.008	0.030	0.015 + 0.000 - 0.005	0.071	0.0625	0.125 + 0.030 - 0.015
L	3.00	40	0.185 ± 0.002	0.015	0.058	0.015 + 0.000 - 0.005	0.183	0.1406	0.375 + 0.075 - 0.030
M	7.00	40	0.370 ± 0.003	0.030	0.116	0.030 + 0.000 - 0.010	0.377	0.2812	0.500 + 0.100 - 0.040

*Summations of deviations from S_g for all grooves in any one sheave shall not exceed ± 0.010 .

The variations in pitch diameter between the grooves in any one sheave must be within the following limits:

Up through 2.9" outside diameter and up 0.002" through 6 grooves (Add 0.0001" for each additional groove)
 Over 2.9" to and including 19.9" and up. 0.0005" through 10 grooves (Add 0.0002" for each additional groove)
 Over 19.9" and up through 10 grooves 0.0100" (Add 0.0005" for each additional groove)

This variation can be easily obtained by measuring the distance across two measuring balls or rods placed in the grooves diametrically opposite each other. Comparing this "diameter-over-balls or -rods" measurement between grooves will give the variation in pitch diameter.

Other Sheave Tolerances

Outside Diameter

Up through 2.9" outside diameter ± 0.010 "
 Over 2.9" to and including 8.0" outside diameter ± 0.020 "
 For each additional inch of outside diameter over 8", add ± 0.0025 "

Radial Runout**

Up through 2.9" outside diameter 0.005"
 Over 2.9" to and including 10.0" outside diameter 0.010"
 For each additional inch of outside diameter over 10.0", add 0.0005"

Axial Runout**

0.001" per inch of outside diameter

**Total Indicator Reading