



GatesFacts™ Technical Information Library
Gates Compass™ Power Transmission CD-ROM version 1.2



The Gates Rubber Company
Denver, Colorado USA

STEPSTONE SHEAVES

Stepstone sheaves are those where through multiple single grooves, various driveN speeds are achieved. These sheaves are traditionally used with fractional horsepower belts on drives such as smaller drill presses, band saws and other power tools. The driveR sheave will typically consist of 3-5 grooves with increasing diameters. The driveN will also have the same 3-5 grooves with decreasing diameter. In each case the diameters are selected so that the center distance remains constant with a given belt effective length.

Speed change is accomplished by stopping the drive, removing the belt tension (quite often by moving the motor on a pivoting motor base), and manually moving the belt to a different set of aligning grooves.