



Custom-Made Sheaves & Sprockets

V-Belt Sheaves & Synchronous Sprockets

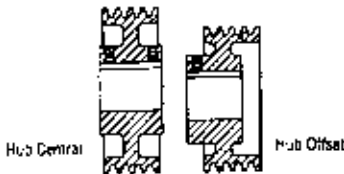
Standard stock products offer the best value for most power transmission operations. But, for requirements that cannot be served with stock products, DODGE manufactures custom-made sheaves and synchronous belt sprockets.

Custom Construction Options

- Non-stock pitch diameter
- Non-stock number of teeth
- Alternate hub location
- Special material: ductile, steel, etc.
- Alternate bushing or bore configuration for mounting product onto shaft
- Other non-standard requirements

Hub Locations

- Hub central
Typical for larger diameter products
- Hub offset
This location is preferred for wider face widths. It is positioned to accommodate the shaft and provides centralized sheave support
- Hub projection
- Required for access to setscrews on smaller bored-to-size products



Materials

Stock sheaves, as well as synchronous sprockets, are manufactured typically from high quality gray iron. Frequently specified alternate materials are shown below.

ALTERNATE MATERIALS		
MATERIAL	GRADE	MAX. RIM SPEED (FPM)
GRAY IRON:	-	6,500
DUCTILE IRON:	65-45-12	8,000
IRON:	80-55-06	10,000
STEEL:	-	10,000

Dynamic (two-plane) balance normally required for rim speeds above 6,500 feet per minute (FPM).

Drives that exceed 8,000 FPM should be reviewed by DODGE Engineering.



Synchronous Sprockets



V-Belt Sheaves

Mounting Styles

Bored-to-size

Required when rim diameter cannot accommodate the bushing that is required for the bore size. One keyseat, as well as one or two setscrews are usually specified.

Taper bushed

Specify TAPER-LOCK or QD bushing for required bore size. Verify that hub diameter accommodates bushing. Taper bushed mounting is preferred because this mounting compensates for variations in shaft diameter; provides tight, secure fit; and removes easily for servicing.

Taper bore

For use on taper shafts (sketch below). If hub is not central with face, specify which hub end takes large end of bore. Hub at small end will extend 1/8" beyond the "T" dimension. Keyways are standard size, as well as parallel with the taper, unless specified otherwise.

