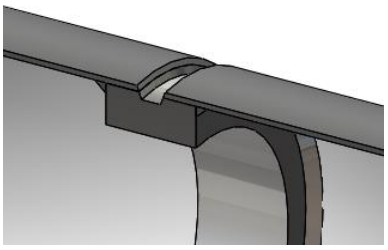
CONVEYOR PULLEYS

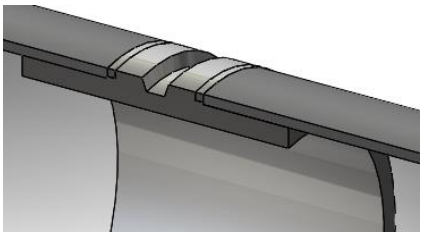
V-Groove Construction Styles

2-Piece Sleeve



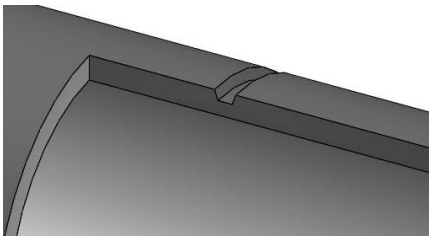
A steel sleeve is inserted inside the pulley and welded 360° on both sides. A V-groove is then machined into the pulley core and the sleeve.

3-Piece Sleeve



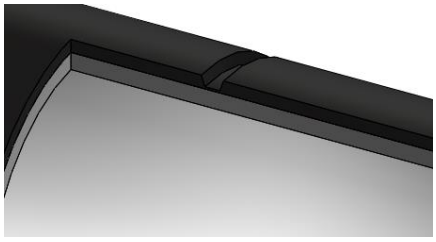
A pre-machined steel v-groove sleeve is inserted between two separate sections of pulley core and welded 360° around the pulley from the outside.

Direct Machine Into Core



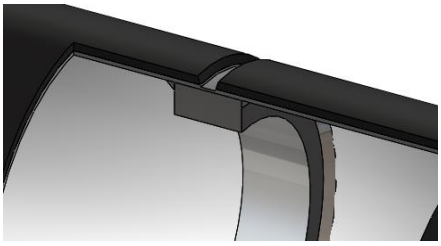
Desired v-groove dimensions are machined directly into a pulley core of a thickness greater than the depth of the v-groove.

Vulcanized Lagging Only



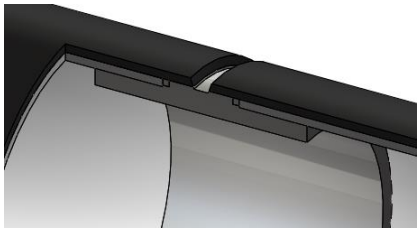
Desired v-groove dimensions are machined directly into lagging of a thickness greater than the depth of the v-groove.

Vulcanized Lagging 2 pc. Sleeve



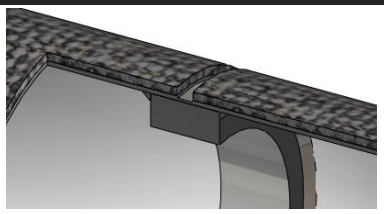
A steel sleeve is inserted inside the pulley and welded 360° on both sides. The pulley is lagged, and the V-groove is then machined into the lagging, the pulley core and the sleeve.

Vulcanized Lagging 3 pc. Sleeve



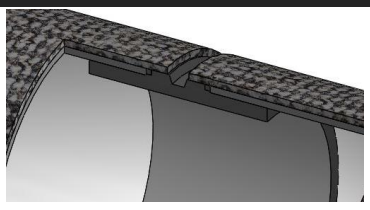
A steel sleeve is inserted between two separate sections of pulley core and welded 360° around the pulley from the outside. The pulley is lagged, and the V-groove is then machined into the lagging and the sleeve.

SWRT / 2-Piece Sleeve Style



A steel sleeve is inserted inside the pulley and welded 360° on both sides. A V-groove is machined into the pulley core and the sleeve. Spiral wrap rough top (SWRT) lagging is then installed such that it is flush with the edge of the v-groove.

SWRT / 3-Piece Sleeve Style



A steel sleeve machined to the V-groove depth minus the lagging thickness is inserted between two separate sections of pulley core and welded 360° from the outside. SWRT lagging is installed so it is flush with the edge of the v-groove.

NOTE:
V-groove clearances on pulleys are typically up to ¼" wider and 1/16" deeper than belting V-guide dimensions.

When V-grooves are required, consult the belt manufacturer's recommendations for minimum pulley diameter based on the type and style of belt being used.