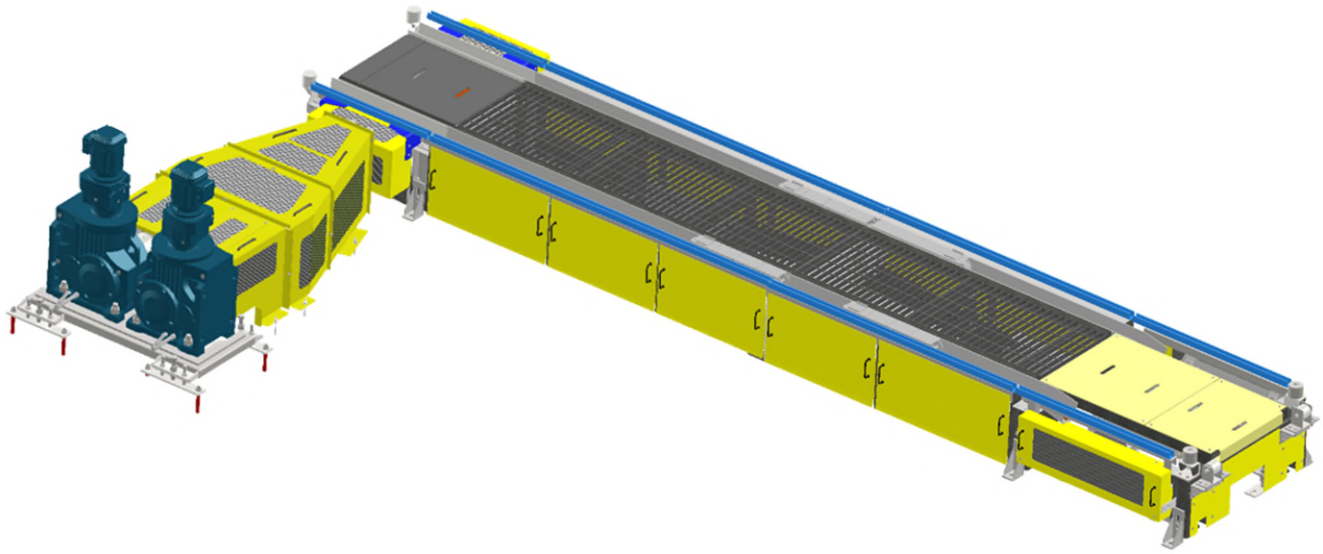
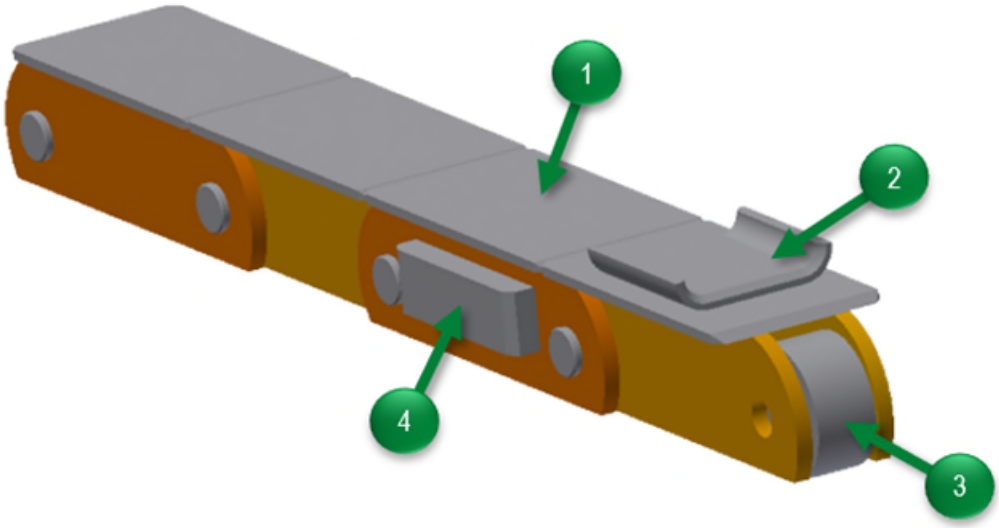
2-Strand Chain System Components

Your Asset system contains the following major components:

- ***2-Strand Chain***
- ***2-Strand Chain Drive Unit***
- ***2-Strand Chain Take-Up Unit***



2-Strand Chain



1 Flattop

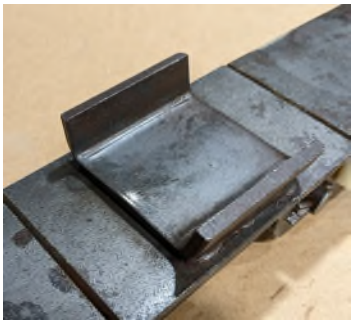
2 Saddle

3 Roller

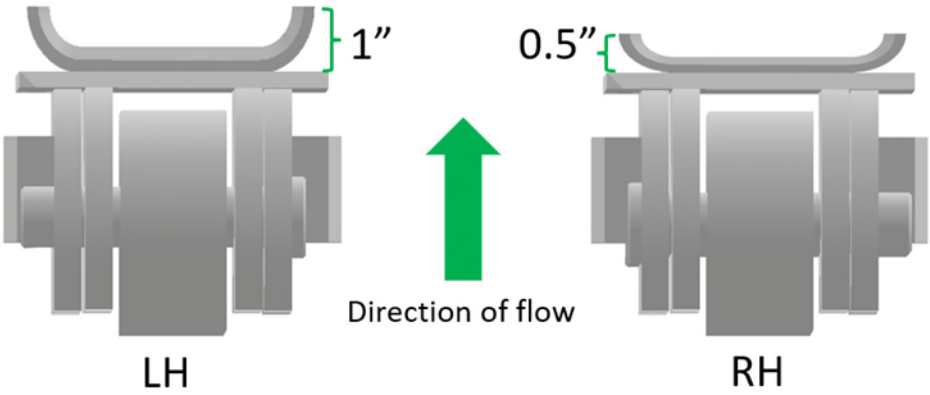
4 Wearpad

2-Strand Chain Overview

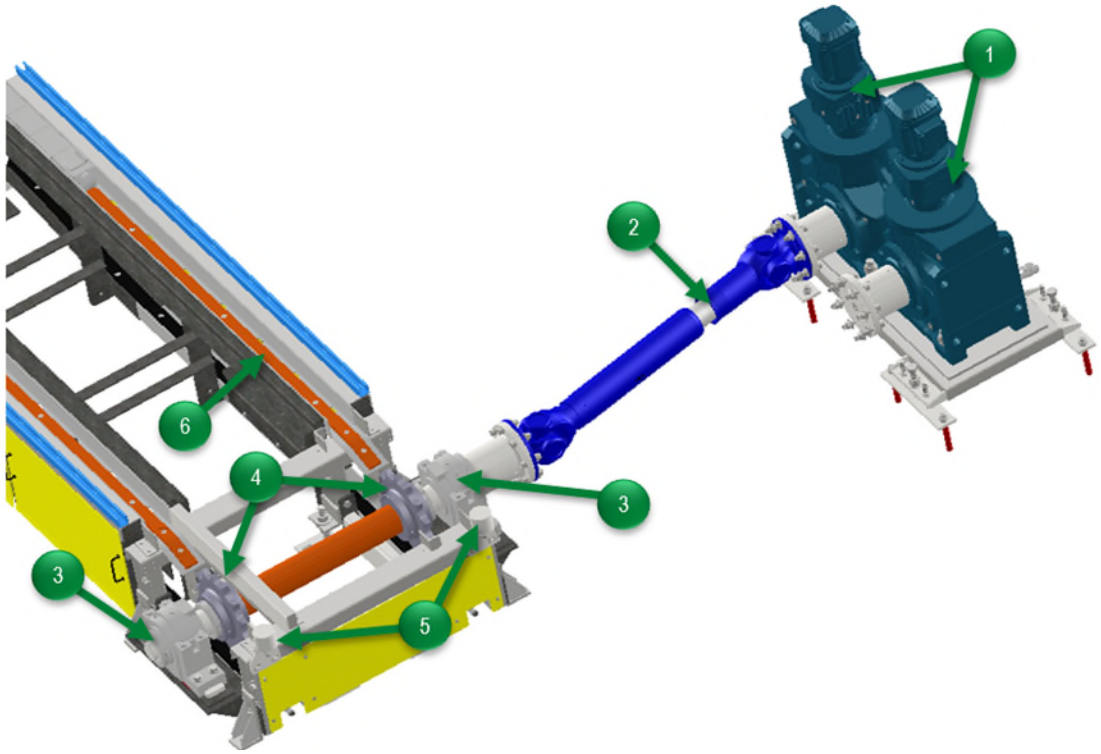
The chain for this conveyor is a flattop style with mounted saddles. The skid rests in the seat of the saddle as it traverses the length of the conveyor. The left-hand and right-hand chains have two different saddles mounted outlined in the diagram below. The underside of the chain has rollers secured at each of the linkages that ride on wear plates. On the side are bolted wearpads that may interact with the walls of the track as the chain is pulled along.



Chain saddle



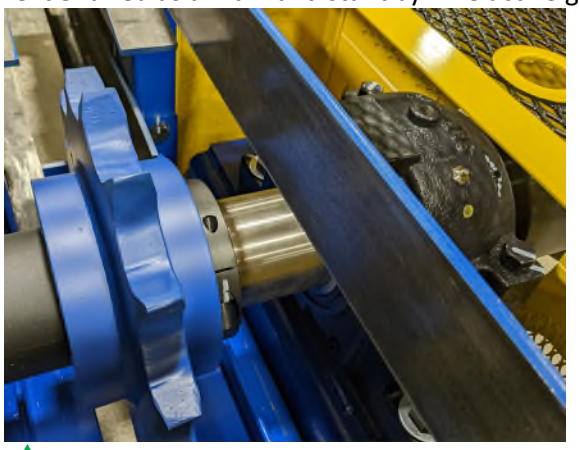
2-Strand Chain Drive Unit



1	Gearmotor	3	Split Block Bearing	5	Guide Roller
2	Cardan Shaft	4	Drive Sprocket	6	Wear Plate

2-Strand Chain Drive Unit Overview

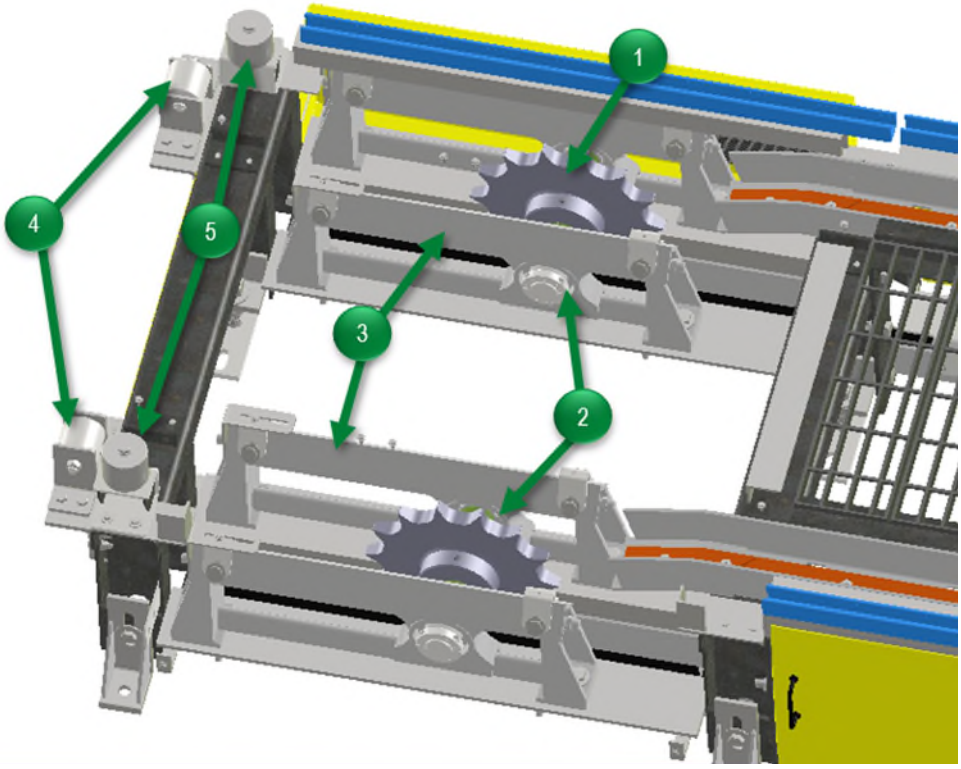
This chain conveyor has a double chain that is driven by one of two external mounted gearmotors. The gearmotors are identified as a main and standby. The active gearmotor can be changed by mounting the cardan shaft to the appropriate gearmotor. The cardan shaft transfers momentum to the drive shaft that is supported by two split block bearings mounted on either end of the shaft.



Drive Sprocket and Split Block Bearing

The chain underside engages with the teeth on the drive sprockets to provide forward momentum on the conveyor. As the chain is pulled along the track it moves along the wear plates that run the length of the conveyor. As the skid leaves the chain conveyor, a pair of guide rollers correct alignment if needed for proper transfer to the next part of the system.

2-Strand Chain Take-Up Unit



1 Take-Up Sprocket

2 Take-Up Bearing

3 Bearing Frame

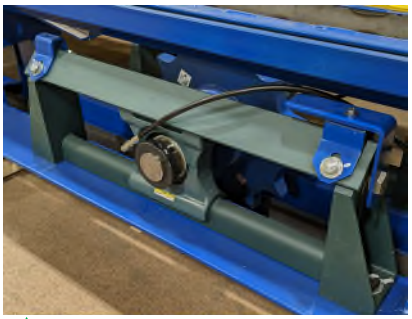
4 Roller

5 Guide Roller

2-Strand Chain Take-Up Unit Overview

The take-up unit is the beginning of the chain conveyor where the tension of the chain is maintained. The chain engages with the teeth of the take-up sprockets and begins its journey to the drive unit. The take-up sprockets are mounted on shafts that are held with take-up bearings. These bearings are housed within a support frame to maintain alignment. The bearing positions within the frame can be adjusted to correct tension if necessary, during maintenance routines.

As the skid begins its travel, it engages with the chain and rollers for forward momentum. As it enters the take-up unit, the skid is lined up via the guide rollers for proper alignment as it travels.



Take-Up Bearing and Frame