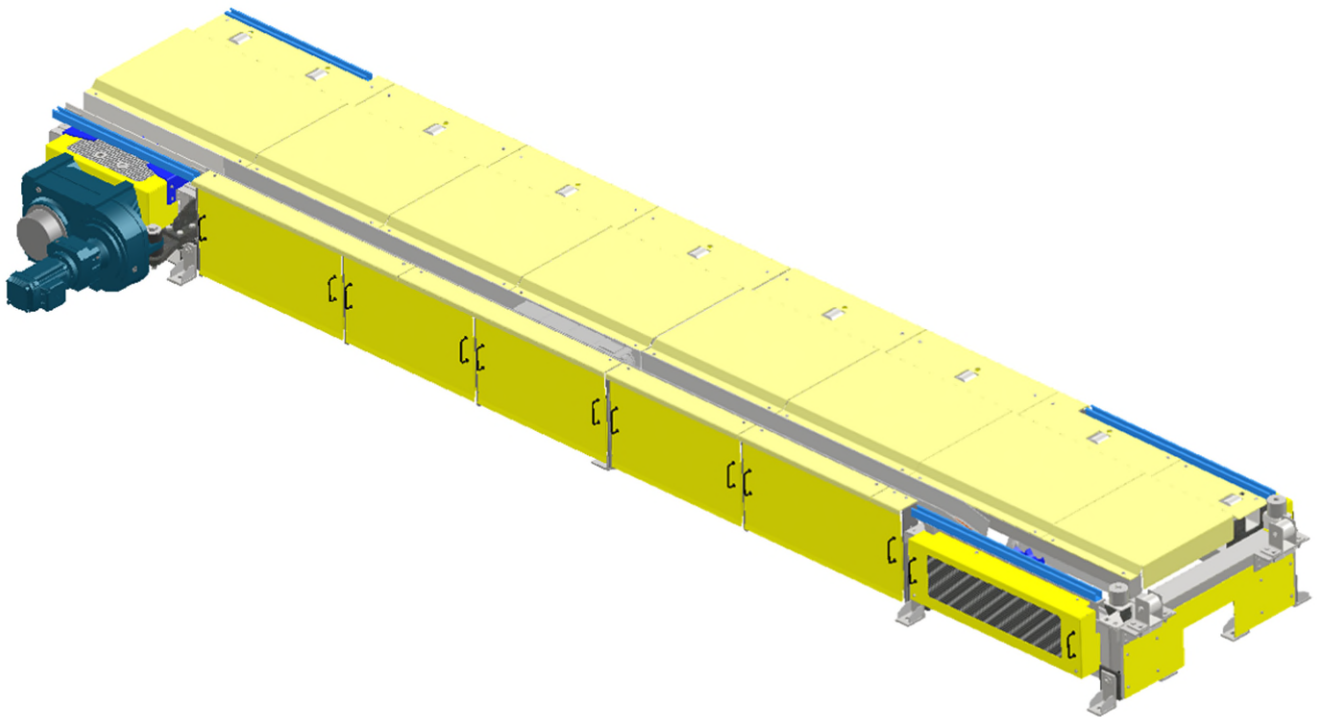


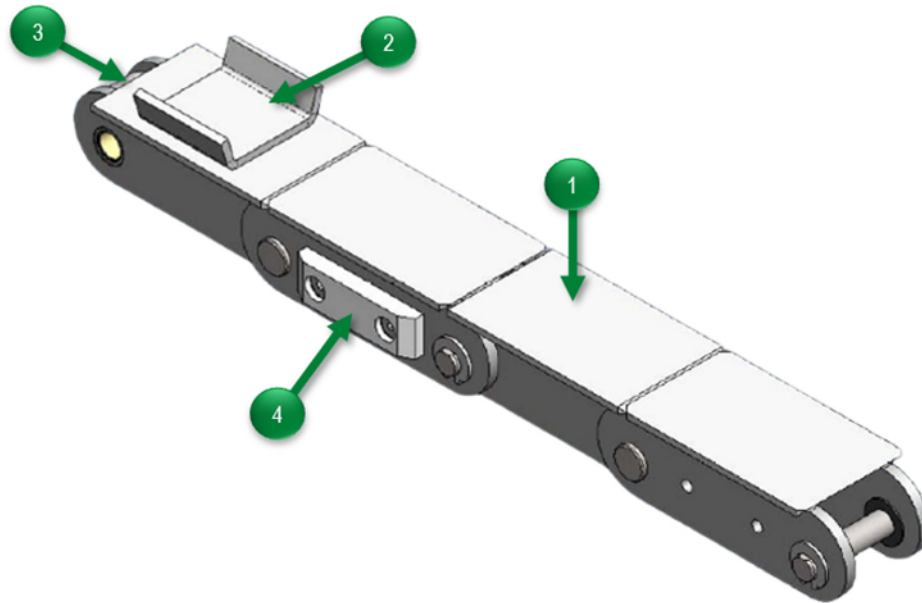
# 1-Strand Chain System Components

Your Asset system contains the following major components:

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



# 1-Strand Chain



1 Flattop

2 Saddle

3 Roller

4 Wearpad

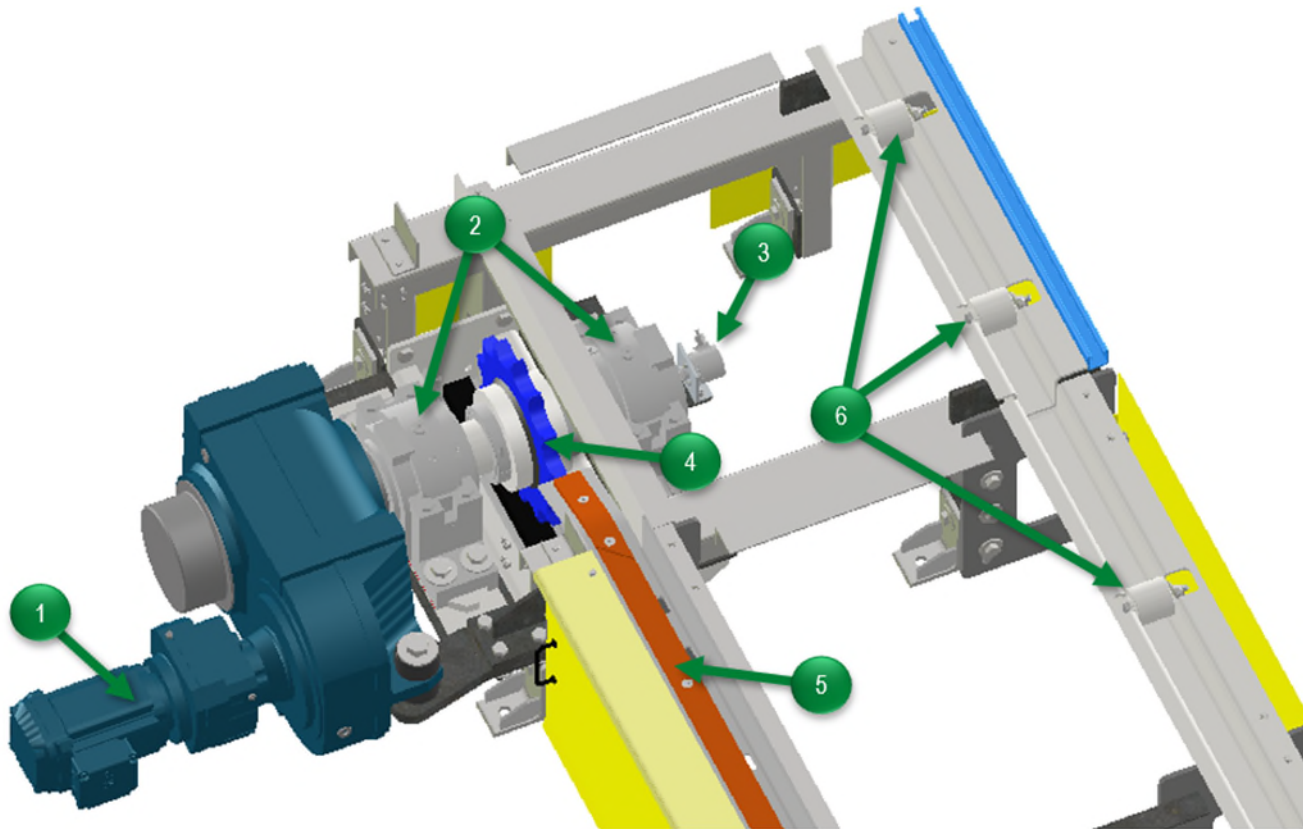
## 1-Strand Chain Overview

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 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 Wearpad

# 1-Strand Chain Drive Unit



- 1 Gearmotor
- 2 Split Block Bearing
- 3 Encoder
- 4 Drive Sprocket
- 5 Wear Plate
- 6 Roller

## 1-Strand Chain Drive Unit Overview

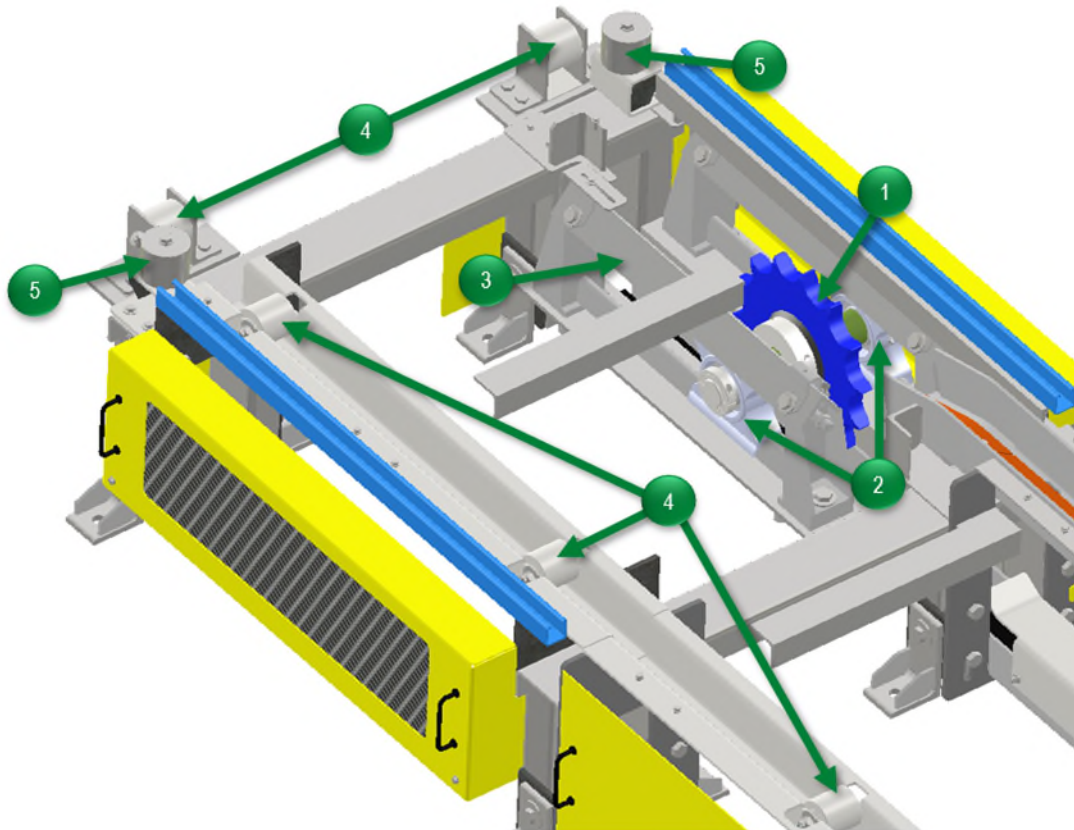
This chain conveyor has a single chain that is driven by one external mounted gearmotor. A motor mount plate attached to the side of the frame provides stability and torque. The drive shaft is supported by two split block bearings mounted on either side of the drive sprocket. At the end of the shaft is a multiturn absolute encoder to monitor positioning and movement.

The chain underside engages with the teeth on the drive sprocket 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 and utilizes rollers installed opposite to the chain aid the skid in forward movement.



▲ Split Block Bearing with shaft end

# 1-Strand Chain Take-Up Unit



1 Take-Up Sprocket

3 Bearing Frame

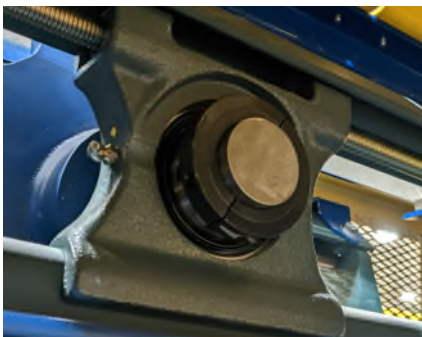
5 Guide Rollers

2 Take-Up Bearing

4 Roller

## 1-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 sprocket and begins its journey to the drive unit. The take-up sprocket is mounted on a shaft that's 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.



▲ Take-Up Bearing

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 by the guide rollers for proper alignment as it travels.