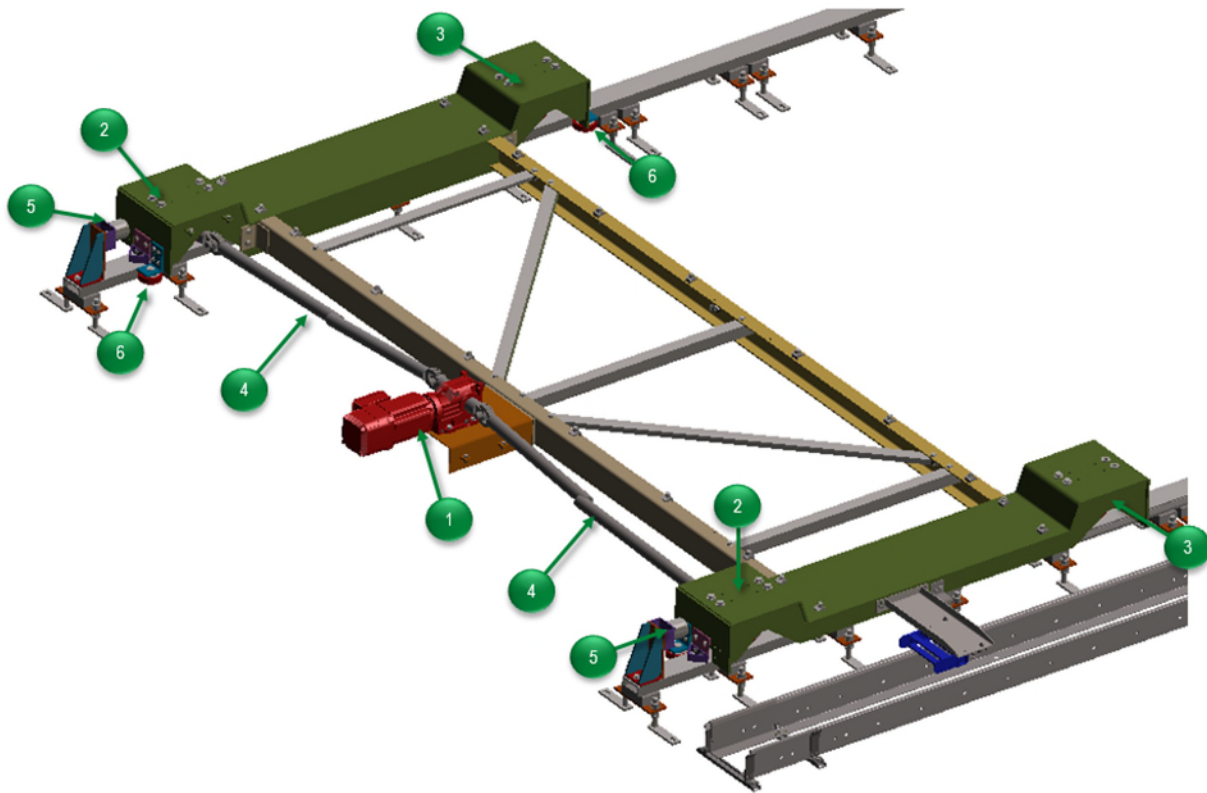


# Shuttle Typical Components



- 1 Gearmotor
- 2 Drive Wheel
- 3 Idle Wheel
- 4 Cardan Shaft
- 5 Bumper
- 6 Guide Wheel

## Shuttle Overview

The function of the shuttle is to move a skid laterally between two or more conveyor lines.

The shuttle consists of four wheel assemblies that move the skid on a rail between conveyor lines. Two of the wheel assemblies are driven by a centrally mounted gearmotor and are actuated through cardan shafts. In line with each drive wheel assembly is an idle wheel assembly. The wheel assemblies are guarded as well as the cardan shaft. The rail has a U-profile for the wheel assemblies to ride in. These rails are fixed to the floor via adjustable feet. On the inside of both ends of the wheel assemblies a guide wheel is mounted. These wheels guide the whole shuttle in the cross direction alongside the rails. The bumpers at the end of the rails ensure that the shuttle, in the case of failure in control, cannot run off the tracks. Not shown in the figure below are trailing cables within a caterpillar track that provide power and communication to the shuttle and roll table gearmotors drive controllers.



▲ Idle wheel and guide wheel.