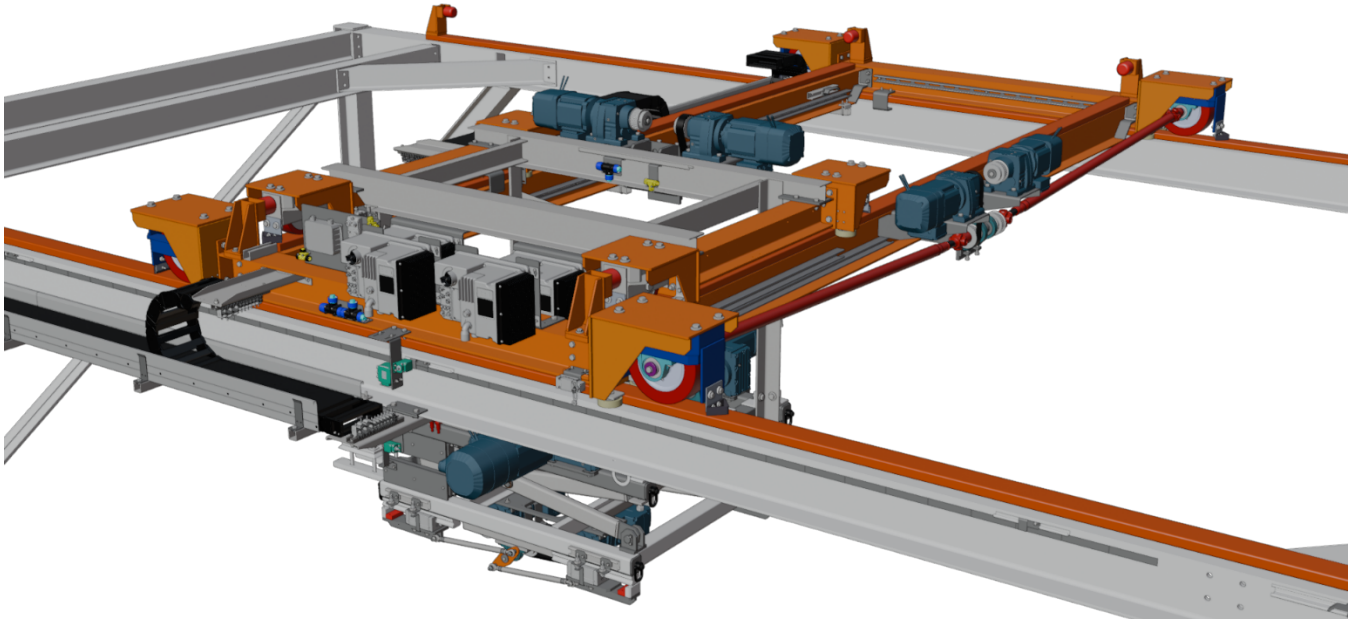


Gantry Box Lift – Typical Components

Your Gantry Box Transfer contains the following major components:

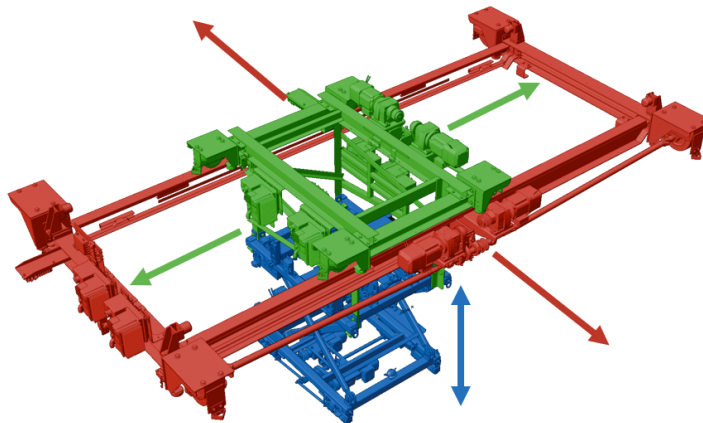
- Left-Right Shuttle
- Fore/Aft Shuttle
- Box Lift Assembly



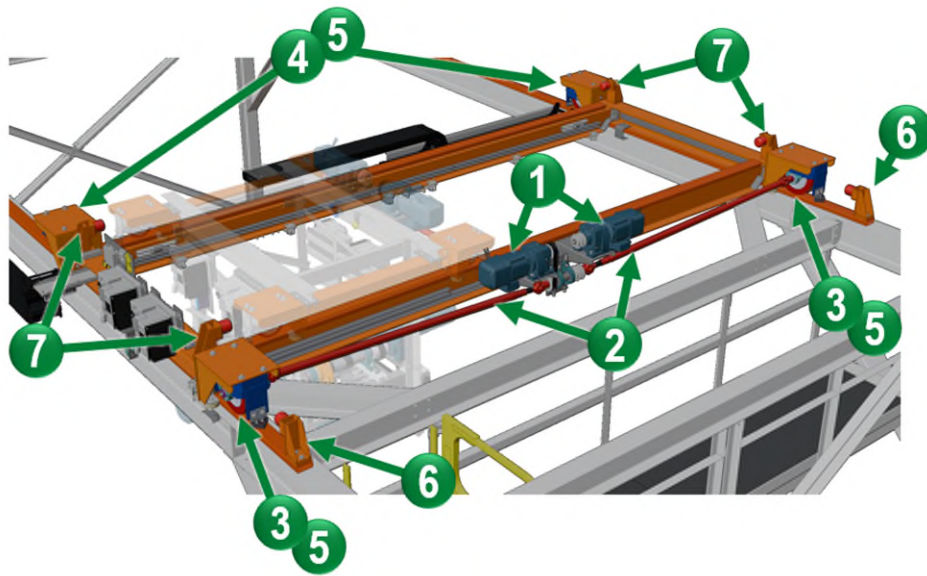
Gantry Box Lift – Overview

The Gantry Box Lift is an overhead crane that positions itself by traveling along a rail. The Left/Right Shuttle, driven by a gearmotor, moves along the rails of the gantry frame to allow for single-axis movement. The Fore/Aft Shuttle is mounted on top of the Left/Right Shuttle, allowing another axis of movement along its rails.

A Box Lift assembly is mounted underneath the Fore/Aft shuttle and can extend itself downwards with a scissor lift system. Sliding forks then extend outwards from the Box Lift to grab the cargo, at which point the scissor lift retracts to pick it up.



Left/Right Shuttle Components



▲ Left/Right Shuttle shown with transparent Fore/Aft Shuttle & Box Lift.

1 Gearmotor

2 Cardan Shaft

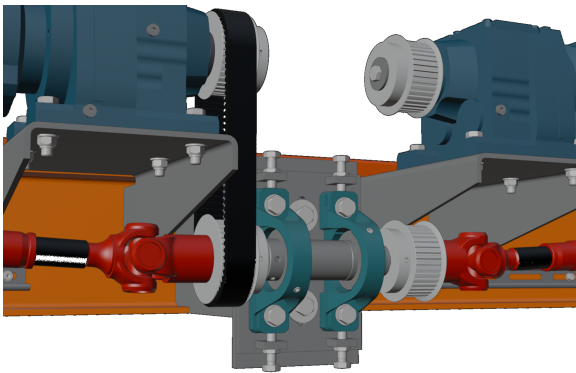
3 Drive Wheel Assembly

4 Idle Wheel Assembly

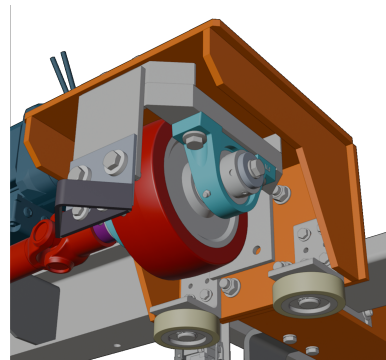
5 Guide Wheel Assembly

6 Left/Right Bumper

7 Fore/Aft Bumper

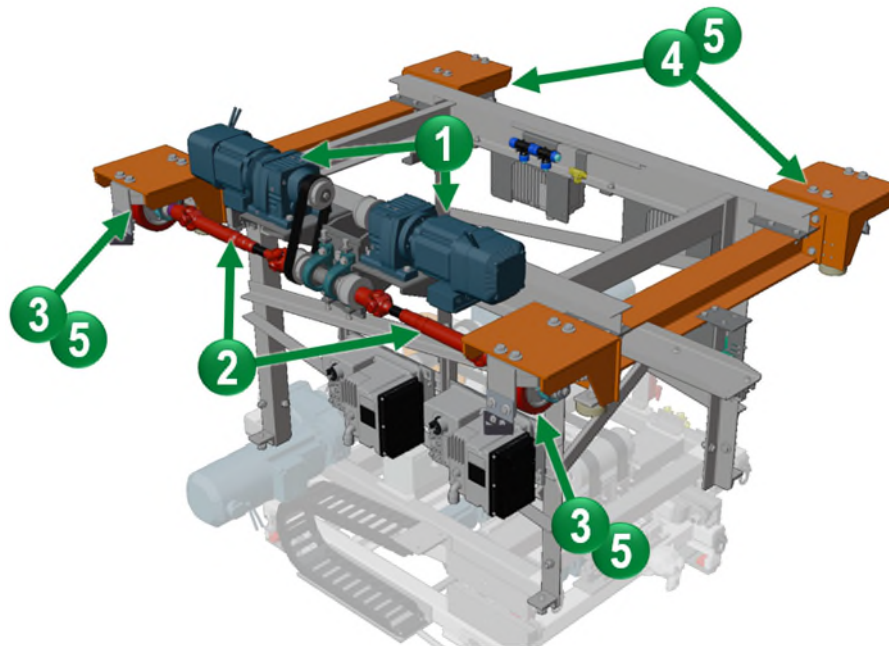


▲ A shuttle's drive motor and drive shaft assembly.



▲ A Drive Wheel and Guide Wheel Assembly.

Fore/Aft Shuttle Components



▲ Fore/Aft Shuttle shown with transparent Box Lift

1

Gearmotor & Standby

2

Cardan Shaft

3

Drive Wheel Assembly

4

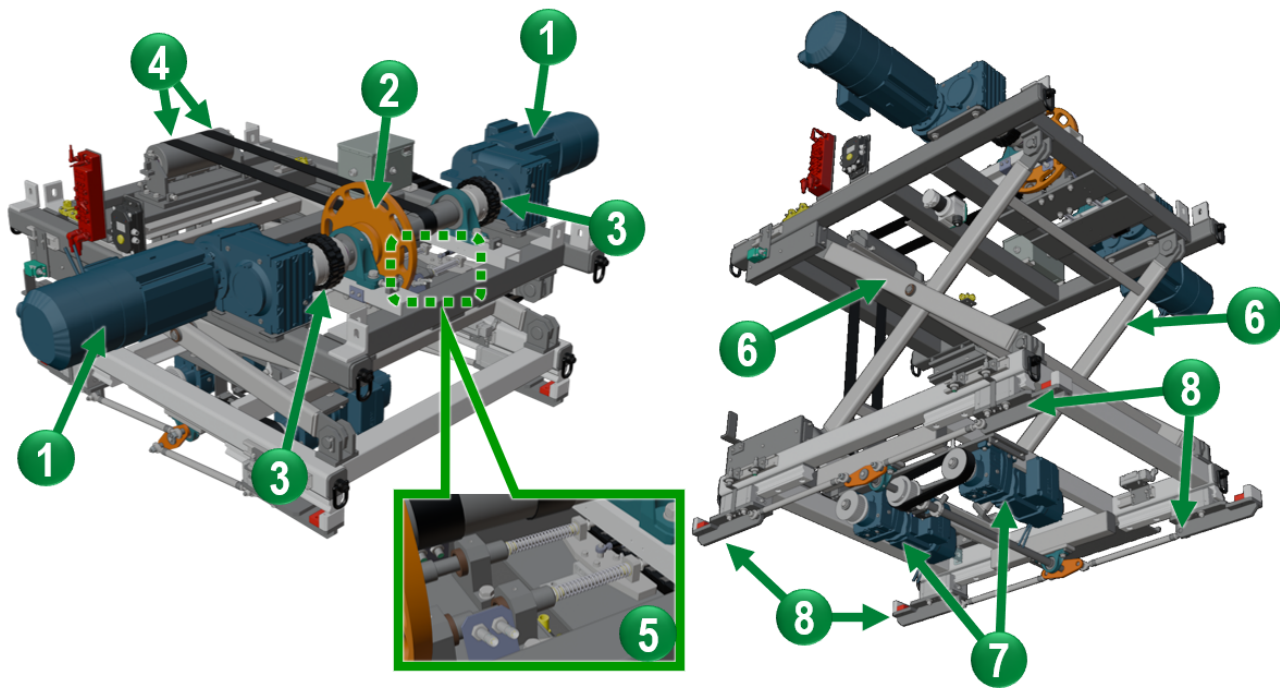
Idle Wheel Assembly

5

Guide Wheel Assembly

6

Box Lift Assembly Components



▲ Box Lift & fork slides retracted

▲ Box Lift & fork slides extended, from below

1 Lifting Gearmotor

2 Drum Shaft Assembly

3 Chain Coupling

4 Lifting Belt

5 Locking Pin Assembly

6 Scissor Assembly

7 Slide Gearmotor

8 Slide Assembly