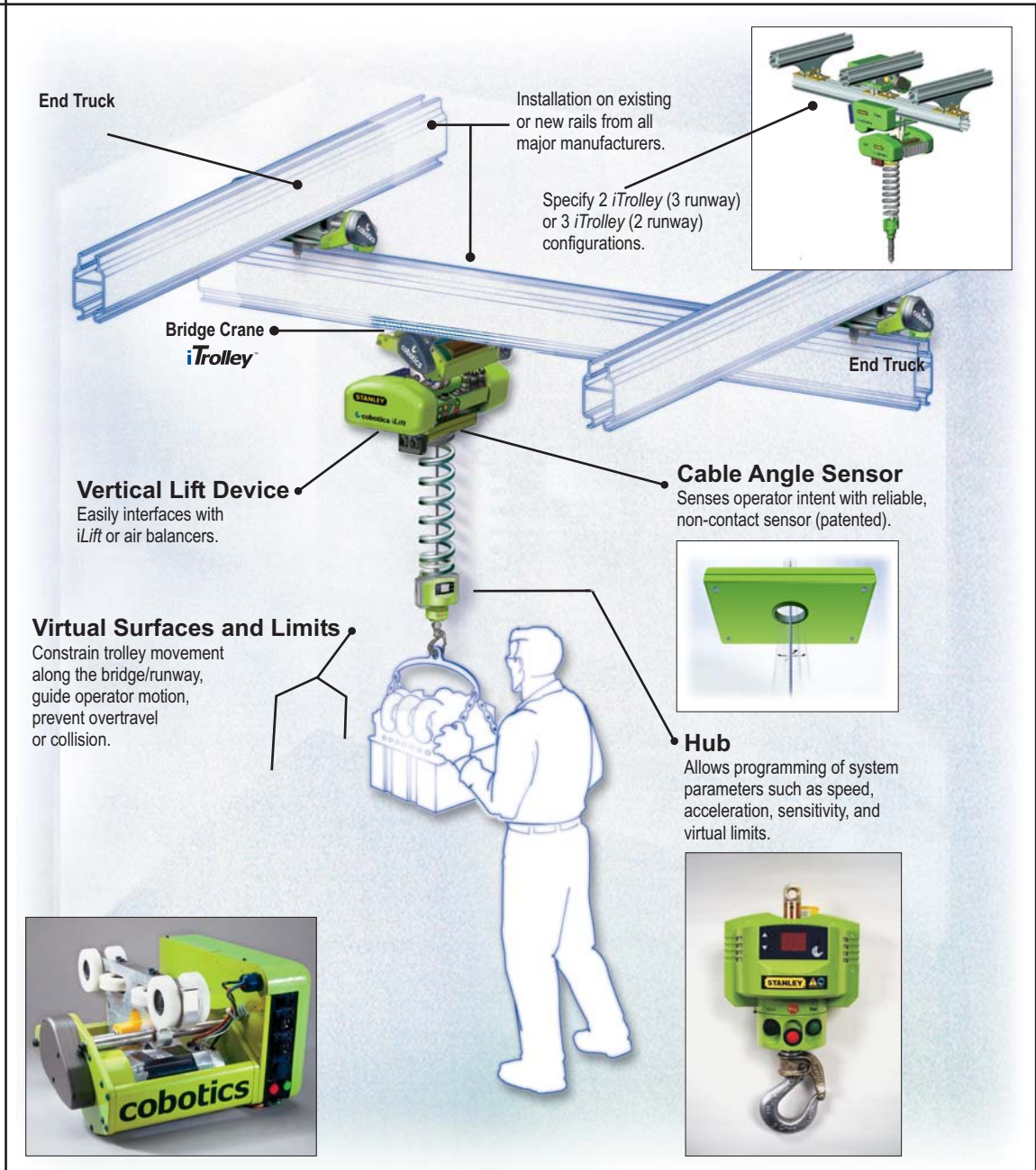


Does your ergonomic assist equipment slow operators down?

Are upper extremity strains and injuries increasing in your plant?

Do you need more control of your process to improve quality?

Do you need to add error proofing?



Unmatched Productivity. Unparalleled Ergonomics.

With Stanley's new iTrolley for enclosed and patented track rail systems, moving loads with large unwieldy bridge cranes is now possible with greater speed and precision than ever before. The system masks the momentum and inertia of the overhead crane, greatly reducing the starting-and-stopping strain that causes most operators to abandon the equipment and perform the task manually.

The servo-driven iTrolley is the highest performance drive system ever created for enclosed and patented track rail systems. The system utilizes a collection of intent sensors, such as the cable angle sensor, that measure human intent and command the iTrolley system to respond as if it was an extension of the human operator.

Providing easy mounting with all conventional rail profiles (both new and existing installations), quick programmability from its central hub, semi-automation, and much more, the iTrolley helps get the highest performance and productivity from overhead rail systems.

Flexible Configurations

Monorail or bridge crane applications

Depending on the application, a one, two, or three-trolley system can be installed. Using the *iTrolley* for horizontal movement, vertical lifting can be accomplished with a Cobotics' *iLift* or standard air balancer.

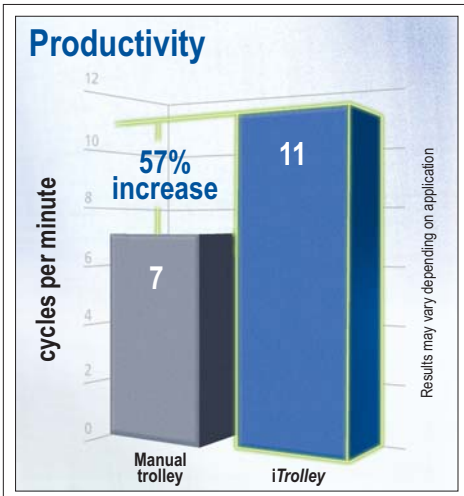
Versatility

iTrolley interfaces with both cable-based and rigid arm lift assist systems.

Benefits

Greater Productivity

Fast, accurate movements with improved ergonomics and semi-automation help operators work faster, for longer periods of time. Tests show an average of 57% greater productivity compared with manual systems.



iTrolley increases productivity by reducing push/pull forces and amplifying strength.

Reduced Strain

By masking the inertia and momentum of the overhead load, the *iTrolley* greatly reduces the push/pull forces as well as the energy required to perform each cycle.

Eliminates Overtravel

iTrolley stops precisely on the intended mark, eliminating the productivity losses associated with multiple repositioning.

Semi-automation

With commands such as "return to home", the *iTrolley* can automate portions of the load movement process, freeing operators to perform secondary tasks.



Features

Non-contact Cable Angle Sensor

This exclusive patented sensor detects the operator's movement in the intended direction and provides immediate power assist. Eliminating the need to push multiple buttons, the operator simply grasps the load and pushes it in the direction they want to travel. The non-contact cable angle sensor measures the proportional deflection of the cable and the intelligent system responds as quickly as the operator moves.

Virtual Limits

Programmable from the Hub, virtual limits prevent load damage and enhance productivity.

Disengage Function

The *iTrolley* drive is easily disengaged for service or for manual backup.

iTrolley Specifications

Maximum Velocity:

±2.0 m/sec (393 ft/min) at 300 lbs. per trolley

Maximum Acceleration:

±0.4 G peak acceleration at 300 lbs. per trolley

Primary Power:

120VAC

Current Draw:

20 amps max (for 3 trolley system)

Maximum Trolley Load Capacity:

1000 lbs. (453.59 kg)

Maximum Travel:

Unlimited runway travel

Maximum Bridge Length:

Up to 9m (30ft) bridge length

Compatible with the following:

Stanley, KBK, Knight, Unified, Zimmerman/IR, CES, Patented Track & I-Beam

Programmable Hub with RS232 interface

As the high-speed communication link and main operator interface, the Hub allows the user to:

- Easily set up, configure, and program the system with a laptop.
- Program and switch between operator preferences for speed, acceleration, and sensitivity.
- Perform data collection for QA/QC, error correction, and tracking.

iTrolley Effectively Minimizes the Force Required to Start/Stop a Load.

