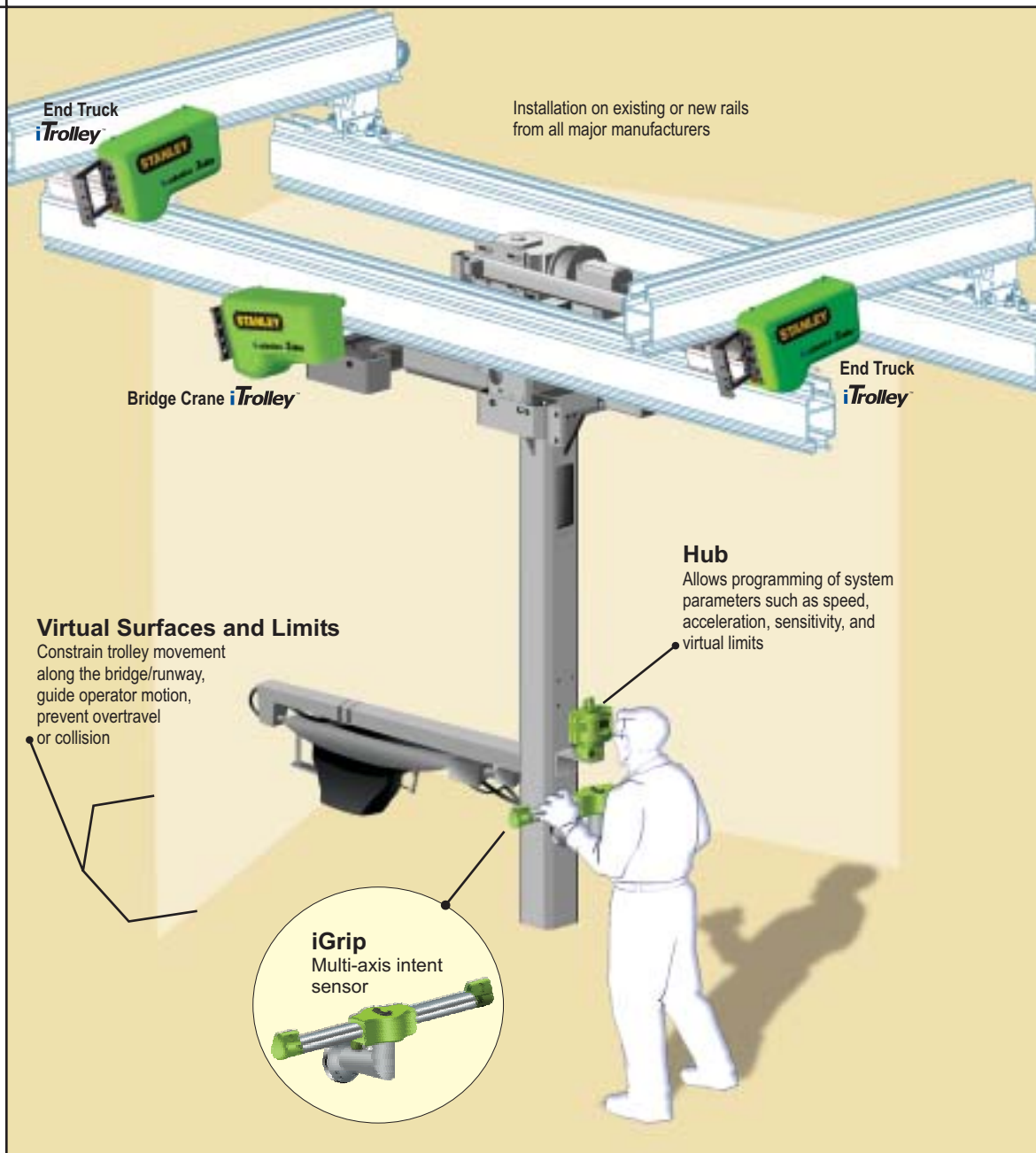


Do you need highly responsive power assist in your arm application?

Are you having trouble meeting your productivity goals?

Does your ergonomic assist equipment slow operators down?

Are upper extremity strains and injuries increasing in your plant?



A Better, More Powerful Ergonomic Arm Solution

Gain high productivity while minimizing operator injury, with the ultimate power assisted solution, the RailCobot Rigid Arm System from Stanley.

The RailCobot System offers the most intuitive power assist technology available with automation features such as virtual limits and line tracking. The System delivers greater productivity as compared to manual methods. When the operator begins to push the iGrip, the RailCobot System's actuators provide instant power assist in the desired direction at 90% less ergonomic force.

The RailCobot system is ideal for applications such as automobile seat and door assembly, instrument panel install, engine/transmission and drive train assembly, handling of large sheet metal, and movement of parts in and out of racks.

Using Cobotics' iTrolley components, the RailCobot System easily integrates with most conventional rail profiles and helps realize the highest performance from overhead rail systems.

RailCobot

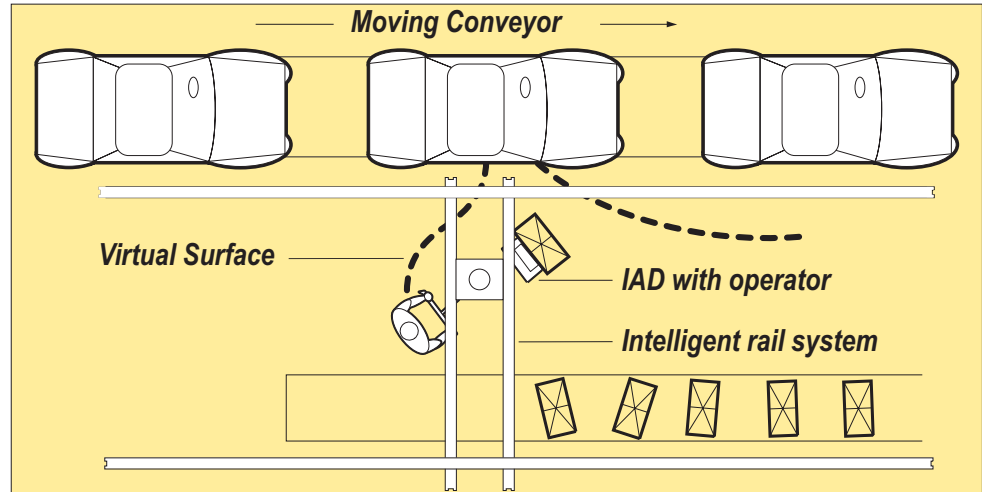
Flexible Configurations

Interface with existing or new manipulator arms

The *iTrolley* System can add power assist to existing or new manipulator arms. This addition maximizes productivity, quality and ergonomics for arm applications.

Monorail or bridge crane applications.

Using the *iTrolley* for horizontal movement, vertical lifting can be accomplished with a pneumatic or electric cylinder, Cobotics *iLift* or air balancer. The System also integrates seamlessly with end effectors.



Benefits

Intuitive power assist The Rail Cobot System provides instantaneous power assist in response to operator movements. It uses "intent sensors" to track operator motions without noticeable delay. This dramatically reduces the forces that the operator must apply.

Reduced strain and improved ergonomics By masking the inertia and momentum of the arm and load, the *iTrolley* System greatly reduces the push/pull forces as well as the energy required to perform each cycle.

Eliminates overtravel Stops precisely on the intended mark, eliminating the productivity losses associated with repositioning.



iTrolley Component

Greater productivity Fast, accurate movements with improved ergonomics and semi-automation help operators meet the ever increasing need to reduce cycle time.

Semi-automation Using commands such as line tracking and "return to home," the *iTrolley* can automate portions of the load movement process, freeing operators to perform secondary tasks. Automated functionality includes:

- Line tracking capability in which the system is synchronized with a line or conveyor, allowing operator and line to move together easily
- Network capable for communication with plant information systems

Error proofing Virtual surface capability enables the Rail Cobot to pick only from a selected rack. This capability can prevent the use of incorrect parts.

Features

Programmable Hub with RS232 interface As the high-speed communication link and main operator interface, the Hub allows for:

- Easy set up, configuration, and programming of the system with a laptop computer.
- Switching between operator preferences for speed, acceleration, and sensitivity.

Intent sensors follow the direct movement of the operator to provide power assist with no physical strain. The sensors quantify the speed and direction of motion that the operator requires. Proprietary algorithms then direct the system's movement.

Virtual surfaces and limits enable the programming of virtual surfaces, paths or funnels to ensure swift, efficient movements without collision or load damage.

Self-contained unit Each *iTrolley* is completely self-contained, with on-board controls requiring only 120VAC power.

For more information or to discuss your application,
Call Stanley at 1.877.709.8006 Today.

Specifications

Maximum Velocity:
±2 m/sec (390 ft/min) @ 300 lbs/trolley

Maximum Acceleration:
±0.4 G peak acceleration 300 lbs/trolley

Power Supply:
120 VAC, 20 amps max (for 3 trolley system)

Maximum Trolley Load Capacity: 455 kg (1,000lb)

Maximum Travel:
Unlimited runway travel

Maximum Bridge Length:
Up to 9m (30ft) bridge length

Compatible with the following rail systems:
Knight, Demag, Zimmerman/IR, CES, Unified, Patented Track & I-Beam

STANLEY

MAKE SOMETHING GREAT™

www.StanleyAssembly.com

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