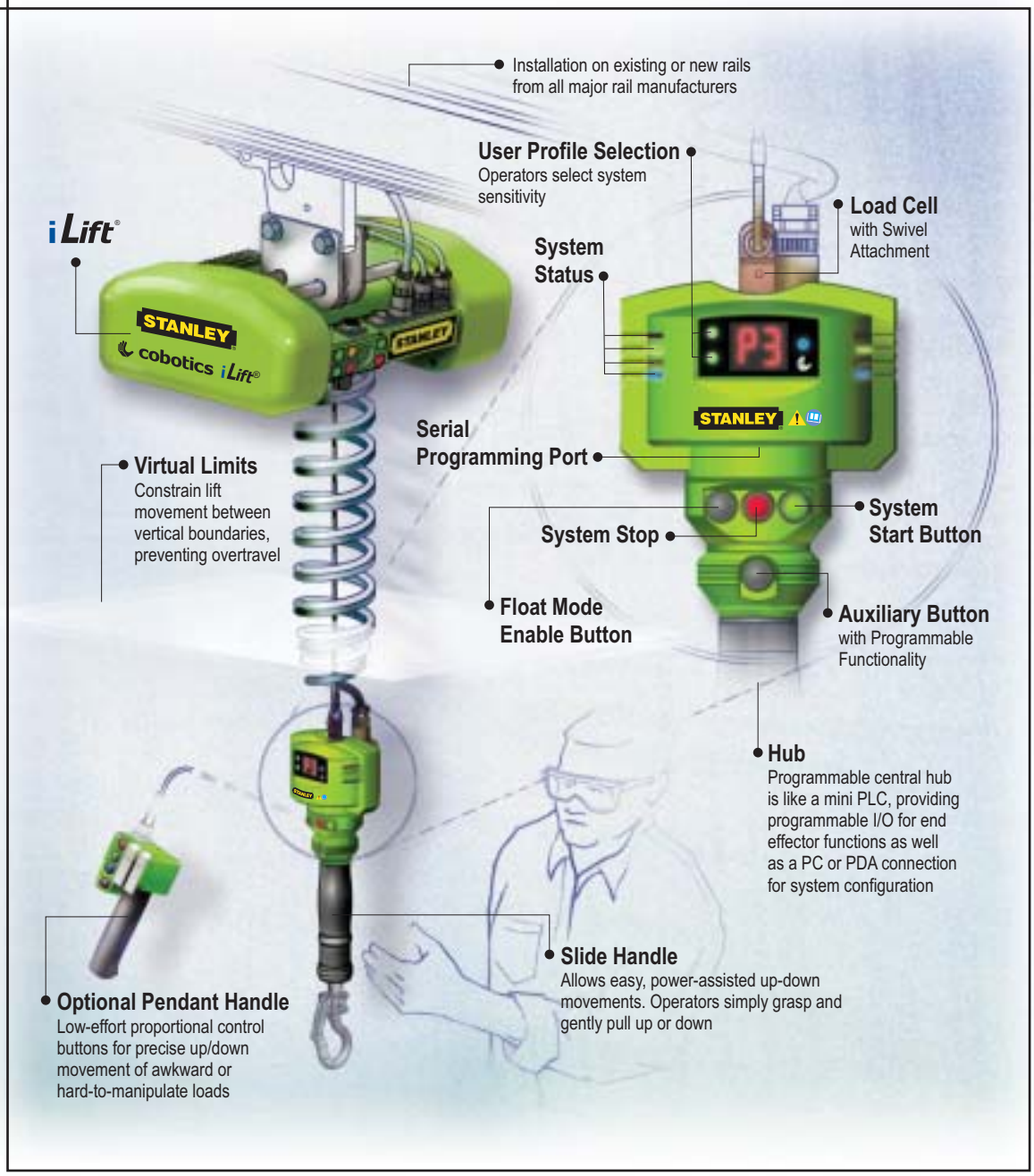
iLift® Intelligent Lifting & Balancing

Does your lift equipment slow you down?

Having trouble meeting productivity goals?

Are upper extremity strains and injuries increasing in your plant?

Would you like to enhance the functionality of your end effector?



Today's Fastest, Most Precise Lifting System

Stanley's i*Lift*, the most advanced lifting and balancing system available, allows operators to manipulate loads with greater speed and precision than ever before. By simply grasping the slide handle or the load itself and gently applying force in the desired direction, the operator can manipulate payloads as if they weighed ounces.

Operators can meet productivity goals while reducing ergonomic strain, with programmable virtual limits, user-selectable operating profiles, and vertical speeds up to 4.9 ft/sec. Offering a blend of power assist and hands-on ("float mode") load positioning, the i*Lift* combines computerized control with human manipulation.

The i*Lift* maximizes the capability of end effectors—with a programmable hub featuring internal logic for control of end effector functions via air cylinders, interlocks, proximity switches, and a locally mounted E-Stop.

Allowing easy installation on existing or new rail configurations, quick programmability, and semi-automation, the i*Lift* is the highest performing lift assist available today.

STANLEY®

cobotics™

iLift®

The iLift integrated with the iTrolley system for powered, multi-axis movement. Shown operating in Float Mode.

Flexible Configurations

Trolley or rail applications. The i*Lift* mounts to most standard trolleys and rail profiles and allows seamless end effector interface. It can also be configured with the Stanley i*Trolley* to create multi-axis Intelligent Assist Device (IAD) systems.

Interface with rigid arm configurations. For added versatility, the i*Lift* can also be configured to provide vertical lift for rigid arm systems.

Benefits

Reduced strain. Low operator force will move heavy loads with ease when using the slide handle.

Eliminates vertical overtravel. The responsive slide handle allows stopping precisely in the intended position, with no noticeable delay.

Greater productivity. Faster cycle times are achieved with the system's speed, float mode, and semi-automation features, allowing operators to accomplish more in a shorter period of time. The i*Lift* offers continuous, variable-speed lift control with a maximum speed up to 5 times faster than speeds offered by standard hoists.

Semi-automation. Commands such as "return to home" allow automation of some load movements, freeing operators to perform Secondary tasks.

Features

Slide or Pendant Handle. Choose from two handles for direct or proportional push-button control.

Float Mode. Featuring an advanced patented float mode available, the i*Lift* allows:

- Hands-on ("float mode") fine tuning of load position
- Automatic mass estimation—no need to push a button each cycle
- Movement of loads without the need to push buttons from the central control position—shaving seconds from cycle times

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

- Program the system using a laptop computer or PDA—eliminating the need to configure hoses or valves
- Program in and switch between operator preferences for speed, acceleration, and sensitivity
- Configure PLC type end effector functions with a simple interface

The iLift is available with Pendant (left) or Slide Handle

Specifications

Capacity (load & end effector):
150 lbs. (68 kg.)

Vertical Travel:
120 in. (3m) with 1/8 in. wire rope

Maximum Velocity:
±295 ft/min (1.5 m/sec) peak speed

Maximum Acceleration:
±1 G peak acceleration

Primary Power:
120 V AC, 15 amps max current draw (for single i*Lift*)

Hub Power available for End Effectors:
12 V 3 amps

Hub Configuration Inputs:
3 digital, 3 analog

Hub Configuration Outputs:
2 digital, 1 Interlock, & 1 E-Stop

Virtual limits. Easily programmable virtual limits prevent load damage and enhance productivity by constraining up/down movement.

Access to system information. Valuable feature for analyzing real-time conditions of the IAD system. Examples include:

- Maintenance—tracking preventative maintenance schedules
- Error-proofing—comparing actual load weight against an expected value
- Optional Ethernet connection—enables communication with user plant information systems

Dump mode. Permits drift-free load dumping

Self-contained unit. *iLift* is completely self-contained, with on-board controls requiring only 120 V AC power.

For more information or to discuss your application, call Stanley at 1.877.709.8006 today, or visit our website at www.StanleyAssembly.com

STANLEY
MAKE SOMETHING GREAT™

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