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?

Intuitive Control Provides Fast, Precise Movement

Stanley’s iLift, 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 295 ft/min (1.5 m/sec). Offering a blend of power assist and hands-on (“float mode”) load positioning, the iLift combines computerized control with human manipulation.

The iLift 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 iLift is the highest performing lift assist available today.

www.StanleyAssembly.com
## Flexible Configurations

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

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

## Features

**Slide or Pendant Handle**
Choose from two handle configurations for direct, hands-on or proportional push-button control.

**Float Mode**
Featuring an advanced patented float mode, the iLift enables:

- 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.

**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

**Locked position**
Permits drift-free payload changes, ideal for dumping applications.

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

## Benefits

**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 iLift offers continuous, variable-speed lift control with a maximum speed up to 5 times faster than speeds offered by standard hoists.

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

**Error-proofing** automatically compares actual load weight to an expected value. By identifying loads that are either under or over the expected weight, operators can easily and reliably identify errors that may have occurred in assembly or packing operations.

## iLift Specifications

<table>
<thead>
<tr>
<th></th>
<th>150 lb.</th>
<th>500 lb.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity:</td>
<td>150 lbs.</td>
<td>500 lbs.</td>
</tr>
<tr>
<td>Maximum Lift Speed:</td>
<td>295 fpm</td>
<td>137 fpm</td>
</tr>
<tr>
<td>Acceleration:</td>
<td>1 G</td>
<td>0.5 G</td>
</tr>
<tr>
<td>Vertical Travel:</td>
<td>120 in. / 3048 m</td>
<td>120 V AC 220 V AC</td>
</tr>
<tr>
<td>Duty Cycle:</td>
<td>Continuous (&gt;H5)</td>
<td>1 Phase 1 Phase</td>
</tr>
<tr>
<td>Power Requirement:</td>
<td>120 V AC</td>
<td>220 V AC</td>
</tr>
<tr>
<td>Max. Current Draw:</td>
<td>15 amps</td>
<td></td>
</tr>
<tr>
<td>Wire Rope Diameter:</td>
<td>1/8 in. 3/16 in.</td>
<td>31.8 mm 4.76 mm</td>
</tr>
<tr>
<td>Unit Weight:</td>
<td>71 lb. 133 lb.</td>
<td>32.2 kg 60 kg</td>
</tr>
<tr>
<td>Hub Power Available:</td>
<td>12 V 3 amps</td>
<td></td>
</tr>
<tr>
<td>Hub Inputs:</td>
<td>3 digital, 3 analog</td>
<td></td>
</tr>
<tr>
<td>Hub Outputs:</td>
<td>2 digital, 1 Interlock, &amp; 1 E-Stop</td>
<td></td>
</tr>
</tbody>
</table>

## Additional system features

- Precision set-down
- Speed reduction points
- Load interlock
- Odometer function
- Anti-recoil
- Capacity overload protection
- E-Stop

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