access rail
improving safety
while working at height

work at height with freedom of movement
The Access Rail system is designed for use as an adjustable anchorage point for rope access and fall arrest. It provides the operator freedom of movement at height and also the ability to lock into position while working. It's ideal for vessel maintenance where the operator needs to be suspended over the side.

Available standard in clear-anodized. A wide range of optional specialty colors are available via request/special order.
Ask your Harken Industrial rep for details.

design
Lightweight trolleys are constructed of strong, one-piece solid aluminum. The adjustable pinstop allows trolleys to be moved along the rail and locked into a new location.

Durability
Trolleys and rails are available in black hardcoat or clear-anodized finishes for maximum corrosion protection in harsh marine environments.

low maintenance ball bearings
Torlon® ball bearings handle high loads, reducing friction so the trolley moves smoothly along the rail. Retaining clips keep ball bearings captive when the trolleys are removed for maintenance.

options
The Access Rail system can be mounted in 3 horizontal planes. A wheel toggle attachment can be used for discrete over-edge parapet and inclined surface installations.

industry regulations
27 mm and 32 mm Access Rail systems can be used for human suspension. The rails are independently tested and CE certified under EN795.2012 Type D and meet ANSI Z359, and are OSHA compliant. The trolleys are independently tested and CE certified under EN795.2012 Type B and meet ANSI Z359, and are OSHA compliant.

Torlon is a registered trademark of Solvay Advanced Polymers.
**REQUIRED SYSTEM CONFIGURATION**

**FULL-BODY SAFETY HARNESS TROLLEY**
Use a full-body safety harness attached to access trolley with pinstop. Full-body safety harness must meet CE/ANSI and OSHA support standards.

**WORKING HARNESS TROLLEY**
Use a working harness or chair attached to access trolley. Working harness or chair must meet CE/ANSI and OSHA support standards.

**TOOL SERVICE TROLLEY**
Add an optional trolley and coupler to work as your tool service carrier.

**ACCESS RAIL SYSTEMS BY APPLICATION**
Harken Industrial manufactures several rail systems for Architectural and Commercial Marine applications. The following matrix offers a quick method of selecting a rail type based on the work-at-height application.

<table>
<thead>
<tr>
<th>Industrial rail type</th>
<th>Fall restraint</th>
<th>Fall arrest</th>
<th>Rope access/suspension</th>
<th>Work positioning</th>
<th>Certifications</th>
<th>Static strength* (kN)</th>
<th>Max span between brackets</th>
</tr>
</thead>
<tbody>
<tr>
<td>R27</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>13</td>
<td>0.3 m</td>
</tr>
<tr>
<td>R27LS</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>22</td>
<td>3 m</td>
</tr>
<tr>
<td>R32</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>22</td>
<td>0.3 m</td>
</tr>
<tr>
<td>TR31</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>1.3 m</td>
</tr>
</tbody>
</table>

*Static strength obtained by independent test.

**WARNING!** Avoid personal injury. The Access Rail System must be used with a full body safety harness and/or working harness or chair that meets CE/ANSI EN813 and OSHA support standards.

**FAQs**

**Q: IS THE HARKEN INDUSTRIAL ACCESS RAIL COVERED BY ANY INDUSTRY LEGISLATION?**
A: Yes. The rails are independently tested and are EN795.2012 Type D compliant, meet ANSI Z359, and are OSHA compliant. The trolleys are independently tested and CE certified under EN795.2012 Type B, meet ANSI Z359, and are OSHA compliant.

**Q: I ALREADY WORK WITH A RAIL SYSTEM. DO I NEED ADDITIONAL TRAINING TO WORK WITH THE HARKEN INDUSTRIAL ACCESS RAIL?**
A: Skills learned while working with other rail systems are transferable. However, a short training session to become familiar with the Harken Industrial system is required to ensure safe installation and working practice. Harken Industrial offers an approved installer training course; contact your local Harken Industrial office for more information.

**Q: CAN THE HARKEN INDUSTRIAL ACCESS RAIL BE FITTED RETROACTIVELY?**
A: Yes. The simplicity of the system means it can be installed on existing buildings.

**Q: WHAT BENEFITS DOES THE HARKEN INDUSTRIAL ACCESS RAIL SYSTEM OFFER ME OVER OTHERS?**
A: The construction and materials used in the Harken Industrial Access Rail have created a stronger system, with smoother linear motion and precise positioning capabilities. The Access Rail is made of anodized, one-piece aluminum components, ensuring corrosion resistance, low maintenance, and a long working life.
SIMPLE TO USE AND IDEAL FOR VESSEL MAINTENANCE

- Wash downs
- Window cleaning
- Paint touch ups

To order black hardcoat-anodized, remove .CLEAR from end of part number.

R27 COMPONENTS

R27 Rail & Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length</th>
<th>Width</th>
<th>Fits rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN10448.CLEAR*</td>
<td>2-trolley assembly/coupler</td>
<td>15 3/16</td>
<td>385</td>
<td>3 11/32</td>
</tr>
<tr>
<td>IN150.CLEAR*</td>
<td>32 mm rail endstop</td>
<td>2 9/16</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>IN10459.CLR*</td>
<td>Removable endstop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IN9565.CLEAR*</td>
<td>Splice link</td>
<td>3 &quot;</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>IN9606.CLEAR</td>
<td>Coupler plate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-50547</td>
<td>Manual provided by Harken Industrial in order to avoid an accident. Never, under any circumstances, exceed the maximum rated load.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Use only endstops listed above.      *To order black hardcoat-anodized, remove .CLEAR or .CLR from end of part number.
R32 COMPONENTS

SIMPLE TO USE AND IDEAL FOR VESSEL MAINTENANCE

- Wash downs
- Window cleaning
- Paint touch ups

R32 Trolleys

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length in</th>
<th>Width in</th>
<th>Fits rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN150.CLEAR*</td>
<td>Single trolley with pinstop</td>
<td>7 3/8</td>
<td>3 11/32</td>
<td>85</td>
</tr>
<tr>
<td>IN151.CLEAR*</td>
<td>Single trolley</td>
<td>7 3/8</td>
<td>3 11/32</td>
<td>85</td>
</tr>
<tr>
<td>IN10448.CLEAR*</td>
<td>2-trolley assembly/coupler</td>
<td>15 3/16</td>
<td>385</td>
<td>85</td>
</tr>
</tbody>
</table>

*To order black hardcoat-anodized, remove .CLEAR from end of part number.

R32 Rail & Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length in</th>
<th>Mounting hole spacing in</th>
<th>Fasteners</th>
<th>Endstop</th>
<th>Splice link</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN10459.CLR*</td>
<td>Pinstop rail for countersunk fasteners</td>
<td>9 10 1/16&quot;</td>
<td>3 15/16</td>
<td>3/8 FH</td>
<td>IN3212, IN185</td>
<td>IN3198</td>
</tr>
<tr>
<td>IN3198</td>
<td>Splice link</td>
<td>3&quot;</td>
<td>76 mm</td>
<td>Purchase one splice link for each rail joint.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IN3212.CLEAR</td>
<td>Removable endstop</td>
<td>2 9/16&quot;</td>
<td>65 mm</td>
<td>Purchase one endstop for each end of system rail.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IN185.CLEAR*</td>
<td>32 mm rail endstop</td>
<td>2 9/16&quot;</td>
<td>65 mm</td>
<td>Purchase one endstop for each end of system rail.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*To order black hardcoat-anodized, remove .CLEAR or .CLR from end of part number.

HARKEN INDUSTRIAL EXCEPTION: The Access Rail system may be used for human suspension.

WARNINGS AND INSTRUCTIONS. You must carefully read, understand, and follow all of the warnings and instructions in the manual provided by Harken Industrial in order to avoid an accident. Never, under any circumstances, exceed the maximum rated load.
The Long-Span Access Rail (R27LS) was developed as an alternative to its flagship R27 Classic Access Rail system. The R27LS has a more robust profile than the classic system, allowing it to handle longer spans without compromising strength. Support brackets are offered in a variety of styles for ease of installation, and for mounting on surfaces of different types and configurations.

Available standard in clear-anodized. A wide range of optional specialty colors are available via request/special order. Ask your Harken Industrial rep for details.

**ENGINEERED FOR DIVERSE APPLICATIONS**
The R27LS is used as a horizontal rail system in many fields (industrial, architectural, civil, etc.) to create a rigid mobile anchor for fall protection and rope access systems.

**PROVEN TROLLEY ASSEMBLY**
The Long-Span Access Rail uses the proven R27 ball bearing trolley assembly for freedom of movement under load.

**LONGER SPAN REDUCES COST**
The longer span between brackets reduces installation costs: 3 m (9.84’) span for fall protection; as much as 1.5 m (4.90’) for rope access.

**MULTIPLE USERS**
The R27LS is certified to support as many as four users on a single span for fall protection and two users for rope access.

**LOW-PROFILE ALUMINUM AND STAINLESS STEEL BRACKETS**
Low-profile, corrosion-resistant brackets of extruded T6082 anodized-aluminum or polished stainless steel mount on a variety of surfaces.

**INDUSTRY REGULATIONS**
The Long-Span Access Rail is independently tested and compliant with EN795:2012 Class D, CEN/TS 16415, UNI11578, meets ANSI Z359, and is OSHA compliant.
### R27 Long-Span Access Rail & Turntables

#### Trolleys

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length (in)</th>
<th>Width (in)</th>
<th>Fits rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN158.CLEAR*</td>
<td>2-trolley without pinstop</td>
<td>10 3/4</td>
<td>2 3/4</td>
<td>IN1643, IN1650, R27.LS</td>
</tr>
<tr>
<td>IN9606.CLEAR*</td>
<td>2-trolley **</td>
<td>10 3/4</td>
<td>2 3/4</td>
<td>IN1643, IN1650, R27.LS</td>
</tr>
<tr>
<td>IN9608.CLEAR*</td>
<td>Trolley</td>
<td>5 3/16</td>
<td>2 3/4</td>
<td>IN1643, IN1650, R27.LS</td>
</tr>
<tr>
<td>IN9565.CLEAR*</td>
<td>Trolley with pinstop</td>
<td>5 3/16</td>
<td>2 3/4</td>
<td>IN1643, IN1650, R27.LS</td>
</tr>
</tbody>
</table>

*To order black hardcoat-anodized, remove .CLEAR from end of part number. **IN9606 and IN158 trolleys do not work with turntables.

#### Rail

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Weight (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR27.LS</td>
<td>Long-span rail, clear*</td>
<td>Anodized aluminum</td>
<td>9' 10 1/16&quot;</td>
<td>1.7</td>
</tr>
</tbody>
</table>

*Available standard in clear-anodized. A wide range of optional specialty colors are available via request/special order. Ask your Harken Industrial rep for details.

#### Mounting Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Fasteners</th>
<th>Includes</th>
</tr>
</thead>
<tbody>
<tr>
<td>INBRKT.1</td>
<td>Bracket “L””</td>
<td>Stainless steel</td>
<td>3/8 - 7/16</td>
<td>1 bracket, 1 double-hole insert, 2 screws, 2 washers</td>
</tr>
<tr>
<td>INBRKT.2</td>
<td>Bracket “S””</td>
<td>Stainless steel</td>
<td>3/8 - 7/16</td>
<td>1 bracket, 1 single-hole insert, 1 screw, 1 washer</td>
</tr>
<tr>
<td>INBRKT.3</td>
<td>Bracket “L””</td>
<td>Stainless steel</td>
<td>3/8 - 7/16</td>
<td>1 bracket, 1 single-hole insert, 1 screw, 1 washer</td>
</tr>
<tr>
<td>INBRKT.4</td>
<td>Bracket “C””</td>
<td>Stainless steel</td>
<td>3/8 - 7/16</td>
<td>1 bracket, 1 single-hole insert, 1 screw, 1 washer</td>
</tr>
<tr>
<td>INLINK.LS</td>
<td>Structural connector</td>
<td>Stainless steel</td>
<td></td>
<td>1 complete connector, 2 INPIN.LS</td>
</tr>
<tr>
<td>INBRKT.AL</td>
<td>Low-profile bracket</td>
<td>Anodized aluminum</td>
<td>3/8 - 7/16</td>
<td>1 bracket, 2 stud screws</td>
</tr>
<tr>
<td>INLINK.AL</td>
<td>Low-profile connector</td>
<td>Anodized aluminum</td>
<td>3/8 - 7/16</td>
<td>1 connector, 10 stud screws, 2 INPIN.LS</td>
</tr>
<tr>
<td>INSTOP.LS</td>
<td>Fixed endstop</td>
<td>Stainless steel</td>
<td>3/8 - 7/16</td>
<td>1 endstop, 2 M6 self-threading screws</td>
</tr>
<tr>
<td>IN1642.CLEAR*</td>
<td>Endstop with adjustable pin (sold individually)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IN9561.CLEAR ‡</td>
<td>Endstops (sold in pairs)</td>
<td>Stainless steel</td>
<td>5/16 FH</td>
<td>8 FH</td>
</tr>
<tr>
<td>INPIN.LS</td>
<td>Alignment pin</td>
<td>Stainless steel</td>
<td></td>
<td>1 pin (order 2 INPIN.LS for each rail section)</td>
</tr>
</tbody>
</table>

*Mounting bracket centers: Fall Arrest: 3 meters; Rope Access/Suspension: 1.5 meters.
**To mount this endstop, drill and tap a hole for M8 threads on the rail.
‡To order black hardcoat-anodized, remove .CLEAR from end of part number.

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OPTIONAL TURNTABLES

Turntables allow users to easily change trolley directions without disconnecting from the rail system. INTURN1.LS allows 90° directional changes. INTURN2.LS is designed for 'T' rail layouts and 180° or 90° directional changes. Both options are certified to EN795 – 2012 Class D; meet ANSI Z359, and are OSHA compliant.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Mounting accessories</th>
<th>Includes</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTURN1.LS</td>
<td>Turntable “L”</td>
<td>Aluminum/Stainless Steel</td>
<td>All R27 LS brackets</td>
<td>4 INPIN.LS</td>
</tr>
<tr>
<td>INTURN2.LS</td>
<td>Turntable “T”</td>
<td>Aluminum/Stainless Steel</td>
<td>All R27 LS brackets</td>
<td>6 INPIN.LS</td>
</tr>
</tbody>
</table>

Double trolleys (IN9606.CLEAR) cannot be used with the turntable. Two single trolleys must be used.

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