HOLLAND COUPLING PRODUCTS

PINTLE HOOK, COUPLER AND DRAWBAR CATALOG AND SPECIFICATION GUIDE

NEW PRODUCTS

SAF-HOLLAND Group

Engineering Your Road to Success
In 2006, two industrial icons merged to form SAF-HOLLAND, a global leader in the design and manufacture of high-quality components and systems for the commercial vehicle industry. Today, SAF-HOLLAND represents a range of brands providing suspension/axle systems, fifth wheels, kingpins, coupling products, landing gear and liftgate solutions for truck, tractor, bus, and trailer applications.
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Replacement Part Numbers & NSN Reference Chart

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<td>DB-060FQ1</td>
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<td>EH-3050</td>
<td>PH-T-90-A &amp; PH-T-100-A</td>
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* Mounting hole pattern different

National Stock Number* (NSN) Reference Chart
*also referred to as ‘NATO’ Stock Number

HOLLAND Cage Code – 74410
HOLLAND Casting Code – HLH

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| 2540015584395 | PH-775SL21                      | Active       | PH-775SL21            |

COUPLERS

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DRAWBARS

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# Coupling Products by Mounting Type and Rated Capacities

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<td>Rigid Bolt-On</td>
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<td>DB-1400</td>
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<td>DB-100FQ1</td>
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<td>9,072</td>
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<td><strong>DRAWBARS ‘AIR CUSHIONED’</strong></td>
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<tr>
<td>DB-1400AC</td>
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### Identifying Marks on Pintle Hooks, Couplers and Drawbars

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<th>DISTINGUISHING FEATURES</th>
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<tr>
<td>PH-30</td>
<td>AA-52550-4</td>
<td>Has Push-Button Lock</td>
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<tr>
<td>PH-30RP41</td>
<td>AA-52550-4</td>
<td>Rigid Pintle Hook with 4-Bolt 1.75” x 2.38” Bolt Pattern</td>
</tr>
<tr>
<td>PH-35</td>
<td>AA-52550-1</td>
<td>Swivel Pintle Hook with Mounting Flanges</td>
</tr>
<tr>
<td>PH-200</td>
<td>XD-02384-2</td>
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<tr>
<td>PH-210</td>
<td>XD-10570</td>
<td>7/8” 4-Bolt Mounting</td>
</tr>
<tr>
<td>PH-300</td>
<td>XD-01155-1</td>
<td>7/8” 6-Bolt Mounting 1.88” x 6” Spacing</td>
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<tr>
<td>PH-310</td>
<td>XD-10572</td>
<td>7/8” 6-Bolt Mounting 1.88” x 6” Spacing</td>
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<tr>
<td>PH-400</td>
<td>XD-02275-1</td>
<td>7/8” 10-Bolt Mounting</td>
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<tr>
<td>PH-400-H</td>
<td>XD-02275-1</td>
<td>7/8” 8-Bolt Mounting</td>
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<td>7/8” 6-Bolt Mounting 2.38” x 5” Spacing</td>
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<td>PH-419</td>
<td>XD-11231</td>
<td>7/8” 6-Bolt Mounting 2.38” x 5” Spacing</td>
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<tr>
<td>PH-760</td>
<td>AA-52550-2</td>
<td>3/4” 2-Bolt Mounting Flanges 6.5” Apart</td>
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<tr>
<td>PH-775L11</td>
<td>AA-55220-3 74410</td>
<td>Swivel Pintle Hook with Housing</td>
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<tr>
<td>PH-775L21</td>
<td>AA-55220-3 74410</td>
<td>Swivel Pintle Hook with Housing</td>
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<tr>
<td>PH-T-60-AL</td>
<td>XA-T-60-A</td>
<td>1/2” 4-Bolt Mounting 2.12” x 3.4” Bolt Pattern</td>
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<tr>
<td>PH-T-60-AOL-8</td>
<td>AA-52550-4</td>
<td>Has Cotter Pin and Chain Latch Lock</td>
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<tr>
<td>PH-T-60-AOS-L-8</td>
<td>AA-52550-1</td>
<td>Swivel Pintle Hook with Mounting Flanges</td>
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<tr>
<td>PH-T-90-A</td>
<td>XE-T-91</td>
<td>Swivel Pintle Hook with Mounting Flanges and Square Spring</td>
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<tr>
<td>PH-T-100-A</td>
<td>XE-T-87</td>
<td>Swivel Pintle Hook with Mounting Flanges and Round Spring</td>
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<tr>
<td>PH-T-125-A</td>
<td>XE-T-87</td>
<td>Swivel Pintle Hook - Undermount and Round Spring</td>
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<tr>
<td>PH-T-126-A</td>
<td>XE-T-91</td>
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<td>PH-990ST71</td>
<td>XD-10286</td>
<td>Swivel Pintle Hook with Housing and Large “Fish Mouth”</td>
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<tr>
<td>CP-360</td>
<td>XD-361</td>
<td>Rigid Coupler 6-Bolt Mounting</td>
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<td>CP-380</td>
<td>XD-380</td>
<td>Rigid Coupler 4-Bolt 4.5” x 4.5”</td>
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<tr>
<td>CP-380-A</td>
<td>XD-380</td>
<td>Rigid Coupler 4-Bolt 4.5” x 4.5” Bolt Pattern and Secondary Lock</td>
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<tr>
<td>CP-400-5A</td>
<td>XD-400-5-1</td>
<td>Rigid Coupler 4-Bolt 1.5” x 3.25” Bolt Pattern</td>
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<tr>
<td>CP-400-CA</td>
<td>XD-400</td>
<td>Rigid Coupler 4-Bolt 4.5” x 4.5” Bolt Pattern</td>
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<td>CP-400-GSE</td>
<td>XD-400</td>
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<tr>
<td>CP-400-H</td>
<td>XD-400</td>
<td>Rigid Coupler 4-Bolt 4.5” x 4.5” Bolt Pattern with Secondary Lock</td>
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<tr>
<td>CP-740</td>
<td>XD-731</td>
<td>Rigid Coupler with Hood</td>
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<tr>
<td>DB-010EJ1</td>
<td>DB-010EJ1</td>
<td>2.5” I.D. Eye with 2” x 4” Mounting Mase</td>
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<tr>
<td>DB-020FK1</td>
<td>MH-1800-D</td>
<td>3” I.D. Eye</td>
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<tr>
<td>DB-030DQ1</td>
<td>XE-10373</td>
<td>2.38” Eye with 4-Bolt Mounting for 1/2” Bolts</td>
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<tr>
<td>DB-040DQ1</td>
<td>XE-10373</td>
<td>2.38” Eye with 4-Bolt Mounting for 5/8” Bolts</td>
</tr>
<tr>
<td>DB-060FQ1</td>
<td>XE-1385</td>
<td>3” I.D. Eye with 4-Bolt Mounting for 3/4” Bolts</td>
</tr>
<tr>
<td>DB-100FQ1</td>
<td>XE-1385</td>
<td>3” I.D. Eye with 4-Bolt Mounting for 7/8” Bolts</td>
</tr>
<tr>
<td>DB-045BW1</td>
<td>Date Stamp Only</td>
<td>2.38” I.D. Eye Drawbar with Housing 3” x 4” x 6”</td>
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<tr>
<td>DB-610-30</td>
<td>XW-1249-48</td>
<td>3” I.D. Eye Drawbar with Housing 3” x 4” x 6”</td>
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<tr>
<td>DB-1228-1</td>
<td>XE-1228</td>
<td>2.5” I.D. Eye with 6-Bolt Mounting 1.25” x 3” Shank</td>
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<tr>
<td>DB-1235-1</td>
<td>XE-1235</td>
<td>3” I.D. Eye with 6-Bolt Mounting 3.12” x 3.12” Shank</td>
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<td>DB-1235-3</td>
<td>XW-1235</td>
<td>3.0” I.D. Eye with 6-Bolt Mounting 3.12” x 3.0” Shank</td>
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<tr>
<td>DB-1238</td>
<td>XE-1230</td>
<td>3” I.D. Eye with 6-Bolt Mounting 1.62” x 3” Shank</td>
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<tr>
<td>DB-1245-1</td>
<td>XE-1245</td>
<td>2.38” I.D. Eye with 6-Bolt Mounting 3.12” x 3.12” Shank</td>
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<tr>
<td>DB-1249-2H</td>
<td>XE-1249-2H-10</td>
<td>3” I.D. Eye with 2” O.D. x 4.25” Shank</td>
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<td>DB-1249-49</td>
<td>XE-1249-48</td>
<td>3” I.D. Eye with 2” O.D. x 8.5” Shank</td>
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<tr>
<td>DB-1250-3</td>
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<td>2.5” I.D. Eye Drawbar with 1.5” Diameter x 3.25” Shank</td>
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<tr>
<td>DB-1307-S-1</td>
<td>XE-1249</td>
<td>3” I.D. Eye Drawbar with Housing 5” O.D. x 8.25”</td>
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<tr>
<td>DB-1400</td>
<td>DB-1400</td>
<td>2.38” I.D. Eye Weld-on Drawbar</td>
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<tr>
<td>DB-1400AC-1</td>
<td>DB-1400AC</td>
<td>2.38” I.D. Eye Weld-on Drawbar with Snubber on 12” Rod</td>
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<tr>
<td>DB-1400AC-2</td>
<td>DB-1400AC</td>
<td>2.38” I.D. Eye Weld-on Drawbar with Snubber on 8” Rod</td>
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<tr>
<td>DB-1400AC-3</td>
<td>DB-1400AC</td>
<td>2.38” I.D. Eye Weld-on Drawbar with Snubber on 7” Rod</td>
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<tr>
<td>DB-1400AC-4</td>
<td>DB-1400AC</td>
<td>2.38” I.D. Eye Weld-on Drawbar with Snubber on 10” rod</td>
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<tr>
<td>DB-1407-S</td>
<td>Date Stamp Only</td>
<td>2.38” I.D. Eye Drawbar with Housing 5” O.D. x 8.25”</td>
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<tr>
<td>DB-1407-SE</td>
<td>Date Stamp Only</td>
<td>2.38” I.D. Eye Drawbar with Housing 5” O.D. x 9.63”</td>
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<tr>
<td>DB-1422</td>
<td>1422</td>
<td>2.38” I.D. Eye Drawbar for “A-Frame” Mounting</td>
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</table>
PINTLE HOOKS

- Combination Ball / Hook
- Rigid Mount
- Swivel Mount
- NoLube™
- Air Cushioned
- FastLatch™
Pintle Hooks – Rigid Mount

BH-200RN41 Features 2” diameter ball
BH-50mmRN41 Features 50mm diameter ball

Application
A rigid mount pintle hook that combines a pintle hook and ball hitch. Designed for customers who need the strength and capacity to pull trailers equipped with drawbars, as well as the flexibility to pull trailers with a 2” or 50mm ball hitch.

For BH-200RN41/50mmRN41
use RK-10636

Weight: 10 lbs. (4.5 kg)

Capacities
Pintle Hook:
4,000 lbs. (1,810 kg) Maximum Vertical Load
20,000 lbs. (9,070 kg) Maximum Gross Trailer Weight

2” Ball / 50mm Ball:
1,000 lbs. (454 kg) Maximum Vertical Load
10,000 lbs. (4,540 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document numbers:
  - XL-PH377 for BH-200RN41
  - XL-PH385 for BH-200RN51
  - XL-PH379 for BH-50mmRN41
  - XL-PH384 for BH-50mmRN51

For BH-200RN51/50mmRN51
use RK-10636-1
PH-10RP41

Application
A rigid mount pintle hook designed for over-the-road and off-road towing.

Mounting Dimensions

Drawbar Eye Dimensions
2” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH350. For PH-10RP51, refer to XL-PH387.

Weights & Capacities

Capacities
2,000 lbs. (910 kg) Maximum Vertical Load
10,000 lbs. (4,540 kg) Maximum Gross Trailer Weight

Replacement Parts
For PH-10RP41 use RK-10632
For PH-10RP51 use RK-10632-1
Pintle Hooks – Rigid Mount

**PH-T-60-AOL-8** (with chained cotter pin)  
**PH-T-60-S10646** (with tethered lock pin)

**Application**  
A rigid mount pintle hook designed for over-the-road and off-road towing within stated capacities.

Forced from a special steel alloy that is heat treated for strength and durability.  
The latch is forced steel alloy and heat treated for strength and long life.  

**Weight:** 11 lbs. (5 kg)

**Capacities**  
6,000 lbs. (2,720 kg) Maximum Vertical Load  
30,000 lbs. (13,610 kg) Maximum Gross Trailer Weight

**Drawbar Eye Dimensions**  
2” to 3” I.D. with 1.25” to 1.63” diameter section.

**Additional Information**  
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.  
- Tested in accordance with SAE J847.  
- For additional specification detail, refer to document number XL-PH203, or XL-PH333 for PH-T-60-S10646.

**Mounting Dimensions**

**Replacement Parts**

For PH-T-60-AOL-8 use RK-62-O  
For PH-T-60-S10646 use RK-S10646
PH-30RP41

Application
A versatile rigid mount pintle hook designed for over-the-road and off-road towing.

Mounting Dimensions

Weight: 8.4 lbs. (4.2 kg)

Capacities
6,000 lbs. (2,720 kg) Maximum Vertical Load
30,000 lbs. (13,610 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
• For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
• Tested in accordance with SAE J847.
• For additional specification detail, refer to document number XL-PH351. For PH-30RP51, refer to XL-PH364.
PH-30SA41

Application
A split flange mount, swivel style pintle hook designed for over-the-road and off-road applications. The spring provides shock absorption at the coupling—ideal for utility and construction applications.

Capacities
- 6,000 lbs. (2,720 kg) Maximum Vertical Load
- 30,000 lbs. (13,610 kg) Maximum Gross Trailer Weight

Weight: 32 lbs. (14.5kg)

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH368. For PH-30SA51, refer to XL-PH369.

Mounting Dimensions

Replacement Parts
For PH-30SA41 use RK-10632-1
For PH-30SA51 use RK-10632-1
PH-30SB41

Application
An under-mount, swivel style pindle hook designed for over-the-road and off-road applications. The spring provides shock absorption at the coupling—ideal for utility and construction applications.

Mounting Dimensions
The fully machined, high-strength, cast ductile iron housing with a zerk fitting for easy lubrication.

Steel spring provides shock absorption.

Integrated mount for cross-bracing.

Weight: 38 lbs. (17.2 kg)

Capacities
6,000 lbs. (2,720 kg) Maximum Vertical Load
30,000 lbs. (13,610 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH365. For PH-30SB51, refer to XL-PH371.

Replacement Parts
For PH-30SB51 use RK-10632-1

RK-10632

For PH-30SB51 use RK-10632-1

RK-11157

RK-10632-1

One-hand operation and automatic secondary lock Patent #7,431,321
PH-T-60-AOS-L-8

Application
A split flange mounted, swivel style pintle hook designed for over-the-road and off-road applications.

The body is forged from special alloy steel that is heat treated for strength and durability. The special pintle shape is designed for maximum articulation and reduced wear.

The rear flange includes a grease fitting for easy lubrication.

Mounting flanges allow for a maximum .69” plate.

Weight: 15 lbs. (6.8 kg)

Capacities
3,600 lbs. (1,630 kg) Maximum Vertical Load
18,000 lbs. (8,160 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH208.

Mounting Dimensions

Replacement Parts

RK-T-61
XB-767
XB-T-45-1 (Qty. 4)
XB-758 (Qty. 4)
XB-T-89 (Qty. 4)

RK-62-O
XB-T-89-4
XB-11048
XA-199-1

Latch is forged steel alloy and heat treated for strength and long life.
**Application**

Heavy-duty construction for on- and off-road applications where a significant amount of articulation is required in a swivel-style split flange mount pintle hook.

To ensure long life, the front and rear flanges and pivot bolt include zerk fittings for easy lubrication.

The hook is designed for maximum articulation.

Weight: 36 lbs. (16.3 kg)

**Capacities**

9,800 lbs. (4,440 kg) Maximum Vertical Load

49,000 lbs. (22,230 kg) Maximum Gross Trailer Weight

**Drawbar Eye Dimensions**

3" I.D. with 1.25" to 1.63" diameter section.

**Additional Information**

- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH215.

**Mounting Dimensions**

**Replacement Parts**
Pintle Hooks – Swivel Mount

**PH-775-01552 (Lubricated)**

**Application**
Heavy-duty construction for on- and off-road applications where a significant amount of articulation is required.

**Mounting Dimensions**

**Weight:** 60 lbs. (27.2 kg)

**Capacities**
- 20,000 lbs. (9,070 kg) Maximum Vertical Load
- 100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

**Drawbar Eye Dimensions**
3” I.D. with 1.63” diameter section.

**Additional Information**
- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH246.

The Holland PH-775-01552 complies with NOM-035-SCT-2-2010 Safety Specifications and Test Methods.

**Interchangeable with New PH-995SH71, see page 33.**
PH-775SL11 (NoLube®)

Application
Heavy-duty construction for on- and off-road applications where a significant amount of articulation is required.

A one-piece sealed housing keeps contaminants from entering the pintle hook assembly.

Body and housing are forged from special steel alloy and heat treated for high strength and wear resistance.

Weight: 57 lbs. (25.8 kg)  
No lubrication required.

Capacities
20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
3˝ I.D. with a 1.63˝ diameter section.

Additional Information
• For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
• Tested in accordance with SAE J847.
• For additional specification detail, refer to document number XL-PH334. For PH-775SL21, refer to XL-PH339.

The Holland PH-775SL NoLube complies with NOM-0350-SCT-2-2010 Safety Specifications and Test Methods.
PH-300 and PH-300-R

Application
A rigid mount pintle hook designed for enhanced wear resistance. Used for on- and off-road applications.

Unique one-handed latch operation. Also available with reversed latch handle, PH-300-R (see inset).

Plunger/snubber force is developed by the vehicle’s air system to reduce wear and to provide shock absorption.

Austenitic Manganese steel alloy body for enhanced wear resistance.

Weight: 42 lbs. (19 kg)

The complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hooks without an air chamber, bracket, or plunger, order PH-300-1 or PH-300-R-1.

The PH-300 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 56.

Capacities
18,000 lbs. (8,160 kg) Maximum Vertical Load
72,000 lbs. (32,660 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847 (Type II).
- For additional specification detail, refer to document number XL-PH243. For PH-300-R, refer to XL-PH248.

Mounting Dimensions

* Center hole not required if used without air chamber.

Replacement Parts

PH-300 use RK-02536
XB-03104
XB-03103

PH-300-R use RK-03179
XB-03104

Included with XB-165945

XA-04156

Included with XB-165945

XA-02608 Cylinder and Bracket Sub-Assembly
PH-210

Application
A rigid mount pintle hook designed for trailers and semitrailers in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the gap between the pintle hook and the drawbar on vehicles with air systems.

Plunger/snubber force is developed by the vehicle's air system to reduce wear and to provide shock absorption.

Weight: 38 lbs. (17.2 kg)
PH-210RA11 – Complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket.
PH-210RN11 – Pintle hook without an air chamber, bracket or plunger.
PH-210RM11 – Pintle hook with plunger only.
For additional model numbers, see page 26.
The PH-210 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 56.

Capacities
18,000 lbs. Maximum Vertical Load
90,000 lbs. Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH340.
- Also available – PH210 Series with tethered lock pin. Replace “11” with “21” in model number.

PH-310

Application
A rigid mount pintle hook designed for trailers and semitrailers in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the space between the pintle hook and the drawbar on vehicles with air systems.

Plunger/snubber force is developed by the vehicle's air system to reduce wear and to provide shock absorption.

Weight: 39 lbs. (17.7 kg)

For PH-310RN21 use RK-10545-1 LATCH KIT.

PH-310RA11 – Complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket.

PH-310RN11 – Pintle hook without an air chamber, bracket or plunger.

PH-310RM11 – Pintle hook with plunger only.

The PH-310 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 26.

Capacities
20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH341.
- Also available – PH310 Series with tethered lock pin. Replace “11” with “21” in model number.

PH-400 and PH-400-H

Application
A rigid mount pintle hook designed for trailers and semitrailers in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the gap between the pintle hook and the drawbar on vehicles with air systems.

Weight: 48 lbs. (21.8 kg)
The complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hooks without an air chamber, bracket, or plunger, order PH-400-1 or PH-400-1-H.
The PH-400 and PH-400-H can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 56.

Capacities
20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH244 or PH-247.

The Holland PH-400 and PH-400-H complies with NOM-0350-SCT-2-2010 Safety Specifications and Test Methods.
PH-410

Application
A rigid mount pintle hook designed for trailers and semitrailers in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the gap between the pintle hook and the drawbar on vehicles with air systems.

Plunger/snubber force is developed by the vehicle’s air system to reduce wear and to provide shock absorption.

Weight: 42 lbs. (19 kg)

PH-410RA11 – Complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket.
PH-410RN11 – Pintle hook without an air chamber, bracket or plunger.
PH-410RM11 – Pintle hook with plunger only.

For additional model numbers, see page 26.
The PH-410 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 56.

Capacities
20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information
• For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
• Tested in accordance with SAE J847.
• For additional specification detail, refer to document number XL-PH342.
• Also available – PH410 Series with tethered lock pin. Replace “11” with “21” in model number.


Mounting Dimensions

Replacement Parts

RK-10545 LATCH KIT
XB-10537
XB-10537
XB-03104

For PH-410RN21 use Rk-10545-1 LATCH KIT
XB-10537
XB-03104
XB-03104
XB-03104

XA-02608 Cylinder and Bracket Sub-Assembly
PH-550

Application
A rigid mount pintle hook designed for trailers and semitrailers in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the gap between the pintle hook and the drawbar on vehicles with air systems.

Weight: 47 lbs. (21.3 kg)

The complete assembly includes a pintle hook, bullet, mounting bracket, and air chamber. For pintle hook and plunger only, order PH-550-1. The PH-550 must be operated with an air chamber. For easier coupling, drawbar guides are available; see page 56.

Capacities
25,000 lbs. (11,340 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.63” to 1.75” diameter section.

Additional Information
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH261.

Pintle Hooks – Rigid Mount – Air Cushioned

PH-419

Application
A rigid mount pintle hook designed for trailers and semitrailers used in doubles and triples operations. Used for off- and over-the-road applications. Air cushioned snubber is designed to minimize the gap between the pintle hook and the drawbar on vehicles with air systems.

Plunger/snubber force is developed by the vehicle’s air system to reduce wear and to provide shock absorption.

Mounting Dimensions

Air chambers are available for different mounting widths; see page 26.

Weight: 42 lbs. (19 kg)

PH-419RA11 – Complete assembly includes a pintle hook, plunger, air chamber, and mounting bracket.
PH-419RN11 – Pintle hook without an air chamber, bracket or plunger.
PH-419RM11 – Pintle hook with plunger only.

For additional model numbers, see page 26.

The PH-419 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 26.

Capacities

20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions

3” I.D. with 1.25” to 1.63” diameter section.

Additional Information

- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- Tested in accordance with SAE J847.
- For additional specification detail, refer to document number XL-PH10409.
- Also available – PH419 Series with tethered lock pin. Replace “11” with “21” in model number.

The Holland PH-419 complies with NOM-0350-SCT-2-2010 Safety Specifications and Test Methods.

Replacement Parts

RK-10545 LATCH KIT
RK-10545-1 LATCH KIT
(See FastLatch Note Below)

XA-02608 - CYLINDER AND BRACKET SUB-ASSEMBLY

XA-02608 Cylinder and Bracket Sub-Assembly
NEW PH-419 – BEST COMBINATION OF WEAR RESISTANCE, STRENGTH AND SAFETY

Enhanced Wear Resistance

- Austenitic manganese steel alloy body
- The hook ‘work hardens’ at contact surfaces with the drawbar eye

Strength by Design

- Body designed to optimize strength based on the non-linear material properties of the austenitic manganese steel alloy
- Compared to a PH-410, which features our higher-strength carbon steel alloy, the PH-419 body is visibly more robust having been optimized via CAD / FEA for the austenitic manganese material properties

Safety by HOLLAND

- Our high standards of safety are the result of over a century of experience in the design, testing, manufacturing, and quality control of coupling products

NEW PH-419 PINTLE HOOK

The PH-419 can be used with or without air chamber and is compatible with drawbar eye dimensions of 3” (76mm) I.D. with a 1.63” (41.5mm) cross section.

CAPACITIES
- 20,000 Lbs. (9,070 Kg)
- Maximum Vertical Load
- 100,000 Lbs. (45,860 Kg)
- Maximum Gross Trailer Weight

APPLICATIONS
- Heavy-duty ‘A’ train (converter dolly) applications for bulk liquids, dry bulk, aggregates and quarry materials.

Patent Pending
# Pintle Hooks – Rigid Mount – Air Cushioned

## Air Chamber Assemblies and Mounting Kits

![Diagram](image)

<table>
<thead>
<tr>
<th>SELECT &quot;X&quot; DIMENSION FOR MOUNTING</th>
<th>AIR CHAMBER ROD LENGTH</th>
<th>AIR CHAMBER/PLUNGER ASSEMBLY P/N WHEN ORDERED SEPARATELY</th>
<th>PINTLE HOOK PART NUMBERS *****</th>
</tr>
</thead>
<tbody>
<tr>
<td>PINTLE HOOK ONLY</td>
<td></td>
<td>P-210RN11, P-300-1, P-300-R-1, P-310RN11, P-400-1, P-400-1-H, P-410RN11, P-410RN11</td>
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<tr>
<td>PINTLE HOOK WITH PLUNGER ONLY</td>
<td></td>
<td>P-210RM11, P-310RM11, P-410RM11, P-419RM11, P-550-1</td>
<td></td>
</tr>
<tr>
<td>PINTLE HOOK WITH COMPLETE AIR CHAMBER ASSEMBLY</td>
<td>.75&quot; - 2.0&quot;</td>
<td>1.8&quot;</td>
<td>XA-02608*</td>
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<tr>
<td></td>
<td>2.0&quot; - 12.0&quot;</td>
<td>12.0&quot;</td>
<td>XA-10198***</td>
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<tr>
<td></td>
<td>.75&quot; - 2.25&quot;</td>
<td>1.8&quot;</td>
<td>XA-02608*</td>
</tr>
<tr>
<td></td>
<td>.50&quot; - 2.25&quot;</td>
<td>1.8&quot;</td>
<td>XA-09862**</td>
</tr>
</tbody>
</table>

**WHAT’S INCLUDED:**

* Includes plunger, mounting bracket, and air chamber.
** For PH-550, includes bullet, mounting bracket, and air chamber (plunger is factory installed to the pintle hook).
*** Includes plunger and air chamber with cut-to-length rod.
**** To add the Tethered Lock Inset Pin Option for FastLatch models PH-210, PH-310, PH-410 and PH-419, replace the ‘11’ with ‘21’ in the part number.

**XA-02608**

![Image](image)

**XA-09862**

![Image](image)

**XA-10198**

![Image](image)
COUPLERS

- Rigid Mount
- Swivel Mount
- Pin & Clevis
- Ball Hitch
**CP-400-H**

**Application**
A versatile rigid mount coupler used for trailers and equipment in over-the-road and off-road applications. Especially useful when frequent and automatic coupling is desired, and when the weight of the drawbar makes it impractical to lift. The latch automatically closes and locks upon coupling.

**Mounting Dimensions**

**Drawbar Eye Dimensions**
2.50” to 3” I.D. with 1.25” to 1.63” diameter section.

**Weight**
26 lbs. (11.8 kg)

**Capacities**
- 7,500 lbs. (3,400 kg) Maximum Vertical Load
- 30,000 lbs. (13,610 kg) Maximum Gross Trailer Weight

**Jaw**
Forged steel alloy and heat treated.

**Body**
 Cast steel alloy and heat treated for strength.

**Secondary lock**
For added safety.

**Minimal lubrication**
And maintenance is required.

**Springs**
Attach here

**Secondary lock**
For added safety.

**Jaw**
Forged steel alloy and heat treated.

**Mounting Dimensions**

**Replacement Parts**

- XA-401-X3 SUB ASSY.
- XB-04473
- XB-10109
- XA-402-X1
- XB-708 Springs attach here
- XB-403
- XB-382
- XA-404-X

**Additional Information**
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- For additional specification detail, refer to document number XL-PH233.
**Application**
A rigid mount coupler used for trailers and equipment in over-the-road and off-road applications. Especially useful when frequent and automatic coupling is desired, and when the weight of the drawbar makes it impractical to lift. The latch automatically closes and locks upon coupling.

**Mounting Dimensions**

**Body is cast steel alloy and heat treated for strength.**

**Jaw is cast steel alloy and heat treated.**

**To ensure long life, grease fittings are provided for easy lubrication.**

**Secondary lock for added safety.**

**Bottom handle pull is primary lock release.**

**Drawbar Eye Dimensions**
2.50” to 3” I.D. with 1.25” to 1.63” diameter section.

**Additional Information**
- For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
- For additional specification detail, refer to document number XL-PH231.

**Capacities**
3,000 lbs. (1,360 kg) Maximum Vertical Load
52,000 lbs. (23,590 kg) Maximum Gross Trailer Weight

**Replacement Parts**

- XB-T-33-A
- XB-T-377
- XB-01154
- XB-T-377
- XB-767
- XB-3094
- XA-394
- XA-07760
- XA-393
- XB-5
- XB-T-20-2
- XB-767
- XA-392
- XA-T-88
- XA-T-88
- XA-06101
- XA-T-88
CP-740 and CP-730

Application
A very strong, specialized coupler used for trailers and equipment in over-the-road and off-road applications. Especially useful when frequent and automatic coupling is desired. The latch automatically closed and locks upon coupling.

CP-740 Rigid Mount
Primary lock release mechanism.
Secondary lock release mechanism automatically locks for added safety.

Mounting Dimensions (CP-740)

Hooded guide directs the drawbar into the jaw for easy coupling.

Jaw is forged steel alloy and heat treated.

Body is cast steel alloy and heat treated.

Weight: 70 lbs. (32.7 kg)

Capacities
20,000 lbs. (9,070 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
3” I.D. with a 1.63” diameter section.

Additional Information
• For severe off-road applications, reduce the above maximum capacities by 25% and use with a swivel-mount drawbar.
• For additional specification detail, refer to document number XL-PH268.

CP-730 Swivel Mount
The CP-730 is an on- and off-road coupler featuring the CP-740 coupler with a lubricated, swivel mount housing and spring-loaded lock pin.

When the spring-loaded lock pin is engaged, the coupler remains rigid when coupling, or when towing a trailer equipped with a swivel-style drawbar. Simply disengage the lock pin to return the coupler to swivel mode.

Please contact SAF-HOLLAND for more information.
**PH-990ST71 (Rubber Cushioned)**

**Application**

A special frame-mount, swivel style pin coupler with a “fish mouth” head and rubber cushions for shock absorption. Designed for extreme-duty trailers and semitrailers in doubles and triples operations. Used for over-the-road and off-road applications.

Easy to maintain and requires no lubrication.

internal rubber cushions provide shock absorption.

For added security, a safety pin serves as a secondary lock.

The clevis pin is forged steel alloy that is heat treated for strength, durability, and wear resistance.

Weight: 160 lbs. (72.6 kg)

**Capacities**

3,000 lbs. (1,360 kg) Maximum Vertical Load

100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

**Drawbar Eye Dimensions**

3” I.D. with a 1.63” diameter section.

**Additional Information**

- For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
- For additional specification detail, refer to document number XL-PH219.

**Mounting Dimensions**

**Replacement Parts**

RK-T-551
Parts required for PH-990ST71
May also be used with PH-T-990
XB-T-307 (6 REQ.)
XB-T-993 (4 REQ.)
XB-T-361 (4 REQ.)
XB-T-362 (4 REQ.)
XB-T-993-1 (4 REQ.)
XB-0437 (2 REQ.)
XB-T-61 (4 REQ.)
RK-T-993
XA-10287 (2 Req.)
XA-10008 (4 Req.)
XA-10738 (4 Req.)
XA-10000-7 (2 Req.)
XA-10738-1 (4 Req.)
XA-10738-8 (4 Req.)
XA-10739 (4 Req.)
XA-10739-8 (4 Req.)
XA-10739-1 (4 Req.)
XA-10287 (2 Req.)
RK-10291

Internal rubber cushions provide shock absorption.

‘Fish-mouth’ clevis head helps guide the drawbar into position for easier coupling.

Wear plates in fish mouth provide a replaceable wear surface and minimize drawbar 'slop'.

R-K-T-551
Parts required for PH-990ST71
May also be used with PH-T-990
XB-T-307 (6 REQ.)
XB-T-993 (4 REQ.)
XB-T-361 (4 REQ.)
XB-T-362 (4 REQ.)
XB-T-993-1 (4 REQ.)
XB-0437 (2 REQ.)
RK-T-993
XA-10287 (2 Req.)
XA-10008 (4 Req.)
XA-10738 (4 Req.)
XA-10000-7 (2 Req.)
XA-10738-1 (4 Req.)
XA-10738-8 (4 Req.)
XA-10739 (4 Req.)
XA-10739-8 (4 Req.)
XA-10739-1 (4 Req.)
XA-10287 (2 Req.)
RK-10291

XA-10008 (2 Req.)
XA-10738 (4 Req.)
XB-T-61 (4 Req.)
XA-10000-7 (2 Req.)
XA-10738 (4 Req.)
XB-T-993 (2 Req.)
XB-T-993 (2 Req.)

For added security, a safety pin serves as a secondary lock.

The clevis pin is forged steel alloy that is heat treated for strength, durability, and wear resistance.
Pin and Clevis Coupler – Swivel Mount (Over-the-Road)

PH-995SH71 (Non-Cushioned) • NEW

Application
A non-cushioned swivel-mount pin and clevis coupler designed for over-the-road and off-road applications of drawbar style trailers.

Grease fitting for easy lubrication.

A one-piece housing helps keep contaminants out.

For added security, a safety pin serves as a secondary lock.

Large 2.75” (70 mm) diameter clevis pin reduces ‘slop’ between the pin and drawbar eye.

Weight: 97 lbs. (44 kg)

Capacities
3,000 lbs. (1,360 kg) Maximum Vertical Load
100,000 lbs. (45,360 kg) Maximum Gross Trailer Weight

Drawbar Eye Dimensions
3” I.D. with a 1.63” diameter section.

Additional Information
• For severe off-road applications, reduce the above maximum capacities by 25%. Not for use with a swivel-mount drawbar.
• For additional specification detail, refer to document number XL-PH10412UM.

Interchangeable with PH-775-01552, see page 33.
New Installations

Complete Pintle Hook Assembly
PH-775-01552
Features XA-749-1 Lubricated Housing
100,000 lb. (45,360 kg) Max. GTW
20,000 lb. (9,070 kg) Max. Vertical
See page 16

Complete Pin & Clevis Assembly
PH-995SH71
Features XA-749-1 Lubricated Housing
100,000 lb. (45,360 kg) Max. GTW
3,000 lb. (1,360 kg) Max. Vertical
See page 32

Retrofit/Interchange Installations

XA-749-1 Lubricated Swivel Housing

Hook & Latch Sub-Assemblies

PH-775-D
Compatible with XA-749-1
Lubricated Swivel Housing only
Standard Latch with Chained Cotter Pin

PH-775SN11 with FastLatch™
Compatible with XA-749-1
Lubricated and XA-10546
NoLube™ Swivel Housings

PH-775SN21 with FastLatch™ and Tethered Lock Pin
Compatible with XA-749-1
Lubricated and XA-10546
NoLube™ Swivel Housings

Pin & Clevis Sub-Assembly

PH-995SN71
Compatible with XA-749-1
Lubricated Swivel Housing only
BH-50 (Includes Ball and Receiver Assemblies)

Application

This ball hitch is ideal for heavy-duty over-the-road applications where high articulation (up to 30°) in all directions is required, and in applications where the vehicle and trailer remain coupled. The BH-50 minimizes reduces chucking.

Mounting Dimensions

Weight: 135 lbs. (61.2 kg)

Capacities

8,000 lbs. (3,630 kg) Maximum Vertical Load
80,000 lbs. (36,290 kg) Maximum Gross Trailer Weight

Additional Information

- For additional specification detail, refer to document number XL-PH254.
COUPLINGS
INDUSTRIAL / GSE

- Couplers
- E-Hitch
- Lunettes
CP-400-GSE and CP-400-CA

Application

Strong rigid mount couplers that are designed for industrial material handling and ground support applications. The CP-400-GSE and CP-400-CA are useful where coupling is frequent, and quick and easy coupling release is desired. The latch automatically closes and locks upon coupling. The CP400-CA features an integral roller which accommodates a cable release system to open the coupler from the driver’s position.

Lubrication and maintenance are minimal.

Body is cast steel alloy.

Jaw is forged alloy steel and heat treated for strength, toughness, and durability.

Weight: 25 lbs. (11.3 kg)

Capacities

7,500 lbs. (3,400 kg) Maximum Vertical Load
30,000 lbs. (13,610 kg) Maximum Drawbar Pull

IMPORTANT: There is no secondary lock mechanism. This coupler is not designed for over-the-road applications.

Drawbar Eye Dimensions

2.50” to 3” I.D. with 1.25” to 1.63” diameter section.

Additional Information

- For more product specific mounting information and operating instructions, refer to SAF-HOLLAND document number XL-PH348 or XL-PH232.

Mounting Dimensions

Replacement Parts

XA-211 XA-401-X1 XA-402-X1
XA-06181 SUB ASSY.
XA-404-X
XA-10109 SPRINGS attach here
XB-708
XB-382
XB-04473
XB-0473
XB-708
XB-382
**XA-T-150-AF Bolt-On and CP-T-150-S02986 Weld-On**

**Application**

Automatic rigid mount coupler designed for a variety of industrial material handling applications. Useful in instances where coupling is frequent and quick coupling is desired. The latch automatically closes and locks upon coupling.


**Mounting Dimensions**

```
Body is cast steel alloy.

Bottom pull lock release mechanism.
```

Weight: 15 lbs. (6.8 kg)

**Capacities for both Coupler and Coupler Ring**

- Maximum Vertical Load: 50 lbs. (23 kg)
- Maximum Drawbar Pull: 15,000 lbs. (6,800 kg)

**Important:**

There is no secondary lock mechanism. This coupler is not designed for over-the-road applications.

**Drawbar Eye Dimensions**

Maximum 1” diameter cross-section.

**Additional Information**

- For more product specific mounting information and operating instructions, refer to SAF-HOLLAND document number XL-PH235.

**Replacement Parts**

```
RK-T-150-S02986 Jaw Replacement Kit
```

**NOTE:** Maximum of 16.76 linear inches of .38” fillet weld required to develop rated capacity.
EH-3050 e-Hitch™

- 30,000 lb. (13,610 kg) or 50,000 lb. (22,680 kg) Maximum Drawbar Pull, depending on mounting fasteners
- 500 lb. (227 kg) Maximum Vertical Load
- NATO 3” (76mm) Drawbar Eye Compatible

Drawbar Eye Dimensions
2.375” (60mm) to 3.0” (76mm) with maximum 1.75” (44mm) diameter section.

PATENT PENDING DESIGN
- High-strength, cast steel frame, pin and handle.
- Upper Pin Guard and an internally mounted spring helps protect the e-Hitch from impacts.
- The 2.125” (54mm) diameter steel pin minimizes towbar ‘slop’. Pin wear is decreased due to it’s larger surface area and heat-treating to increase hardness.
- Throat area features a negative slope to minimize towbar ‘chucking’ (bouncing).
- Corrosion resistant coatings on all components. A choice of yellow or white powder coat frame is available.
  - EH-3050-13  Safety Yellow
  - EH-3050-14  White
- Handle is interchangeable between rigid and fold-down settings. Simply remove the handle, turn 180º, and reinstall to provide the other setting.

INTERNALLY MOUNTED PIN SPRING AND INTEGRAL KEYWAY FOR HANDS-FREE HOLD OPEN PIN POSITION

Steel spring is mounted inside the robust pin to protect it from impact damage.

Keyway is designed into the pin, and the key is designed into the frame. This eliminates the need to ‘hunt’ for the keyway when opening and closing. The integral keyway also includes a ‘hold-open’ position via a 1/8-turn of the handle.

For additional specification detail, refer to document XL-PH10399.

IMPORTANT: There is no secondary lock mechanism. This coupler is not designed for over-the-road applications.
“Flex-Mount” Bolt Pattern

EH-3050 bolt pattern is interchangeable with the above HOLLAND models.

VARIABLE FOUR (4) BOLT MOUNTING PATTERN
Use only Grade 8 bolts.
Two 1/2” bolts are required for all installations in either the top or middle rows.
Two bolts are required in the bottom row.
For 30,000 lb. (13,610 kg) MDBP installation, use upper slot sized for 1/2” bolts.
For 50,000 lb. (22,680 kg) MDBP installation, use lower slot sized for 5/8” bolts.

Dimensions - Inch (mm)

Replacement Parts

EH-20/40/60
Replacement Parts

Additional Information
DB-010EJ1 and DB-020FK1

- Forged, one-piece steel alloy lunettes
- Non-hardened/non-painted for weldability
- Intended for industrial truck and GSE applications
- Tested in accordance with SAE J847

**Additional Information**

- For additional specifications, refer to document XL-DB124.

### Rigid Tongue Trailers

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<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
<th>Weight</th>
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<tbody>
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<td>GTW VERTICAL</td>
<td>10,000</td>
<td>4,536</td>
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<td>DB-020FK1 3” Eye</td>
<td>GTW VERTICAL</td>
<td>20,000</td>
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**500 lb. Maximum Vertical Load**

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<tr>
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<td>DB-020FK1</td>
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**Weight**

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### Hinged Tongue Trailers

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**500 lb. Maximum Vertical Load**

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<td>DB-020FK1</td>
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<td>22</td>
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</table>

**Weight**

<table>
<thead>
<tr>
<th></th>
<th>lb.</th>
<th>kg</th>
</tr>
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<tr>
<td>DB-010EJ1</td>
<td>18</td>
<td>4.1</td>
</tr>
<tr>
<td>DB-020FK1</td>
<td>27</td>
<td>10</td>
</tr>
</tbody>
</table>

### Mounting Dimensions

**DB-010EJ1**

- A minimum of 12” linear inches of .38” weld on 2” x 4” (11 gauge) structural tubing required to obtain ratings.

**DB-020FK1**

- 8.5” of linear weld .38” bevel groove weld (3” x 1.25” bar used) required to obtain ratings.
DRAWBARS

- Compatibility Chart
- Rigid Mount Bolt-On/Weld-On
- Air Cushioned
- Swivel Mount
### Drawbar Compatibility

<table>
<thead>
<tr>
<th>DRAWBAR NUMBER</th>
<th>DB-010E1</th>
<th>DB-020F1</th>
<th>DB-1250-3</th>
<th>DB-1228-1</th>
<th>DB-1238</th>
<th>DB-030DQ1</th>
<th>DB-1235-1</th>
<th>DB-1235-3</th>
<th>DB-040DQ1</th>
<th>DB-1245-1</th>
<th>DB-1249-2H</th>
<th>DB-1249-4G</th>
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<tr>
<td>Max Vertical Load</td>
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<td>8,000</td>
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<tr>
<td>GTW</td>
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<td>20,000</td>
<td>15,000</td>
<td>20,000</td>
<td>22,000</td>
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<td>2.38˝</td>
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### PINTLE HOOK MODEL MAX GTW

- **PH-10RP**: R 10,000 X X X X X X X X X X X X
- **BH-200RN**: R 20,000 X X X X X X X X X X X X
- **BH-50mmRN**: R 20,000 X X X X X X X X X X X X
- **PH-T-60 AOS-L-8**: S 18,000 X X X X X X X X X X X X
- **PH-T-60 AQL-8**: R 30,000 X X X X X X X X X X X X
- **PH-30RP**: R 30,000 X X X X X X X X X X X X
- **PH-30SA**: S 30,000 X X X X X X X X X X X X
- **PH-30S8**: S 30,000 X X X X X X X X X X X X
- **PH-300 / 300-R**: R 72,000 X X X X X X X X X X X X
- **PH-210**: R 90,000 X X X X X X X X X X X X
- **PH-310**: R 100,000 X X X X X X X X X X X X
- **PH-400 / 400-H**: R 100,000 X X X X X X X X X X X X
- **PH-410**: R 100,000 X X X X X X X X X X X X
- **PH-419**: R 100,000 O X O O O X X O X X X X X
- **PH-550**: R 100,000 X X X X X X X X X X X X
- **PH-760**: S 49,000 O O O O X X O X X O X X
- **PH-775**: S 100,000 O O O O O X O X X O X X

### COUPLER MODEL

- **CP-400-H**: R 30,000 X X X X X X X X X X X X
- **CP-360**: R 52,000 X X X X X X X O X X X X X
- **CP-730**: S 100,000 O O O O O O X O X O O X
- **CP-740**: R 100,000 O O O O O O X X O O O X
- **PH-990T71**: S 100,000 O O O O O O X X O O O X
- **PH-995T71**: S 100,000 O O O O O O X X O O O X

### INDUSTRIAL / AVIATION GROUND SUPPORT EQUIPMENT (Non-Road)

- **CP-400 GSE / CA**: R 30,000 X X X X X X X X X X X X
- **EH-3050**: R 50,000 X X X X X X X X X X X X

R = RIGID  X = COMPATIBLE  S = SWIVEL  O = NOT COMPATIBLE

This information reflects only the dimensional compatibility between HOLLAND lunettes (eyes) and HOLLAND pintle hook horns, coupler jaws and clevis pins.

This information is not an assurance of operational or application compatibility between coupling products. Compatibility of the complete ‘coupling system’ requires additional information.

Please go to the Reference Sections of this catalog (page 59) for helpful information, including:

- Safety Information
- Coupling System Selection
- Operating Conditions
- Mounting Information
### Drawbar Compatibility

<table>
<thead>
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<th>S</th>
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<th>R</th>
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**PINTLE HOOK MODEL**

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**COUPLER MODEL**

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**INDUSTRIAL / AVIATION GROUND SUPPORT EQUIPMENT** (Non-Road)

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</tbody>
</table>

**Notes:**

- **R = RIGID**
- **X = COMPATIBLE**
- **S = SWIVEL**
- **O = NOT COMPATIBLE**

This information reflects only the dimensional compatibility between HOLLAND lunettes (eyes) and HOLLAND pintle hook horns, coupler jaws and clevis pins.

This information is not an assurance of operational or application compatibility between coupling products. Compatibility of the complete ‘coupling system’ requires additional information.

Please go to the Reference Sections of this catalog (page 59) for helpful information, including:

- Safety Information
- Coupling System Selection
- Operating Conditions
- Mounting Information
Drawbars – Rigid Mount Bolt-On (Shank Mount)

DB-1250-3 and DB-1249-2H

- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

**DB-1250-3**

[Diagram showing DB-1250-3]

**DB-1249-2H**

[Diagram showing DB-1249-2H]

**Replacement Parts**

**Additional Information**

- Not recommended for swivel mount applications.
- When mounted, high clamp force is required to provide rated capacities.
- For off-road applications, reduce published capacities by 25% and use with swivel-mount coupling.
- For additional specifications, refer to documents XL-D8104 and XL-D8103.

**Mounting Dimensions**

**DB-1250-3**

[Diagram showing Mounting Dimensions for DB-1250-3]

**DB-1249-2H**

[Diagram showing Mounting Dimensions for DB-1249-2H]

*NOTE: The mounting surface must have an adequate chamfer, as shown above, so that the drawbar mounts flush with the mounting surface.*
DB-040DQ1, DB-060FQ1 and DB-100FQ1

- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- Tested in accordance with SAE J847.

### Rigid Tongue Trailers

<table>
<thead>
<tr>
<th>Capacities</th>
<th>GTW</th>
<th>Dimension ‘A’</th>
<th>Grade 8 Fastener Size</th>
<th>Weight</th>
<th>lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-040DQ1 2.5˝ Eye</td>
<td></td>
<td>18,144 3,629</td>
<td>0.656˝ 5/8˝</td>
<td></td>
<td>14</td>
<td>6.4</td>
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<tr>
<td>DB-060FQ1 3˝ Eye</td>
<td></td>
<td>27,216 6,804</td>
<td>0.780˝ 3/4˝</td>
<td></td>
<td>19</td>
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<tr>
<td>DB-100FQ1 3˝ Eye</td>
<td></td>
<td>56,700 9,072</td>
<td>0.910 7/8˝</td>
<td></td>
<td>19</td>
<td>8.6</td>
</tr>
</tbody>
</table>

### Additional Information

- **IMPORTANT – DO NOT WELD** – Not designed for welded installation.
- Use only Grade 8 bolts and Grade C locknuts
- For off-road applications, reduce published capacities by 25% and use with swivel-mount coupling.
- For additional specifications, refer to documents XL-DB126 and XL-DB125.

### Mounting Dimensions

**DB-040DQ1**

**DB-060FQ1 & DB100FQ1**
DB-1228-1, DB-1238, DB-1245-1, DB-1235-1 & DB-1235-3

- Forged, one-piece steel alloy drawbars
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance.
- Tested in accordance with SAE J847.

Rigid Tongue Trailers
SAF-HOLLAND testing confirms that the type of drawbar mount for a rigid tongue trailer can affect the vertical load capacity of the tongue/drawbar assembly due to the bolt loads associated with the particular mounting type (reference chart below).

Hinged Tongue Trailers
When used in hinged tongue trailer applications where maximum vertical load cannot exceed 500 lbs. (227 kg).
Hinged tongue capacities are not affected by over/under-tongue mounting.

<table>
<thead>
<tr>
<th>Rigid Tongue Trailers</th>
<th>Hinged Tongue Trailers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacities</strong></td>
<td><strong>Capacities</strong></td>
</tr>
<tr>
<td><strong>lb.</strong></td>
<td><strong>lb.</strong></td>
</tr>
<tr>
<td><strong>kg</strong></td>
<td><strong>kg</strong></td>
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<tr>
<td><strong>GTW VERTICAL</strong></td>
<td><strong>GTW VERTICAL</strong></td>
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<tr>
<td><strong>GTW VERTICAL</strong></td>
<td><strong>GTW VERTICAL</strong></td>
</tr>
<tr>
<td>DB-1228-1 2.5˝ ID Eye</td>
<td>GTW 20,000</td>
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<tr>
<td>20,000</td>
<td>9,072</td>
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<tr>
<td>4,000</td>
<td>1,814</td>
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<td>DB-1238 3˝ ID Eye</td>
<td>GTW 22,000</td>
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<tr>
<td>22,000</td>
<td>9,979</td>
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<td>4,500</td>
<td>2,041</td>
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<td>DB-1245-1 2.38˝ ID Eye</td>
<td>GTW 40,000</td>
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<td>18,144</td>
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<td>8,000</td>
<td>3,629</td>
</tr>
<tr>
<td>DB-1235-3 3˝ ID Eye</td>
<td>GTW 35,000</td>
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<td>15,876</td>
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<td>7,000</td>
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<td>DB-1235-1 3˝ ID Eye</td>
<td>GTW 35,000</td>
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<td>35,000</td>
<td>15,876</td>
</tr>
<tr>
<td>7,000</td>
<td>3,175</td>
</tr>
</tbody>
</table>

**Over-Tongue Mount**
Vertical rating may be increased by 50% from over-tongue mount.

**Under-Tongue Mount**

Additional Information
- SAF-HOLLAND recommends that all bolt holes be used.
- Use only Grade 8 bolts and Grade C locknuts.
- **IMPORTANT – DO NOT WELD** – Not designed for welded installation.
- For off-road applications, reduce published capacities by 25% and use with swivel-mount coupling.
- For additional specifications, refer to document XL-DB101.
Mounting Dimensions

**DB-1228-1**
- A: 2.50”
- B: 1.25” x 1.50” Oval
- E: 1.25
- Weight: 20 lb. 9.1 kg

**DB-1238**
- A: 3.0”
- B: 1.63” Round
- E: 1.62”
- Weight: 26 lb. 11.8 kg

### Dimensions
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Weight (lb.)</th>
<th>Weight (kg)</th>
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<td>2.50”</td>
<td>1.25” x 1.50” Oval</td>
<td>1.25</td>
<td>20</td>
<td>9.1</td>
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<tr>
<td>DB-1238</td>
<td>3.0”</td>
<td>1.63” Round</td>
<td>1.62”</td>
<td>26</td>
<td>11.8</td>
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</table>

**Mounting Dimensions**

**DB-1245-1**
- A: 2.38”
- B: 6.0”
- C: 0.75”
- D: 3.0”
- E: 3.0”
- Weight: 41 lb. 18.6 kg

**DB-1235-1**
- A: 3.0”
- B: 6.5”
- C: 0.75”
- D: 3.0”
- E: 3.0”
- Weight: 41 lb. 18.6 kg

**DB-1235-3**
- A: 3.0”
- B: 6.0”
- C: 0.82”
- D: 3.12”
- E: 3.12”
- Weight: 42 lb. 19.1 kg

### Dimensions
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Weight (lb.)</th>
<th>Weight (kg)</th>
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<td>2.38”</td>
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<td>0.75”</td>
<td>3.0”</td>
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<td>0.75”</td>
<td>3.0”</td>
<td>3.0”</td>
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<tr>
<td>DB-1235-3</td>
<td>3.0”</td>
<td>6.0”</td>
<td>0.82”</td>
<td>3.12”</td>
<td>3.12”</td>
<td>42</td>
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</table>
**DB-1400 and DB-1422**

- Forged, one-piece steel alloy drawbar
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

**DB-1400**

Use with 3” channel or square tubing.

Designed for 20° minimum and 60° maximum angle.

**DB-1422**

Use with 3” channel or rectangular tube mounting configuration.

Weld tabs can be heated and bent ± 10° to accommodate installation requirements.

**Designed for 30° angle.**

**Additional Information**

- For off-road applications, reduce the published capacities by 25% and use with a swivel-mount coupling.
- For additional specifications, refer to documents XL-DB113 and XL-DB116.

**Mounting Dimensions**

---

**Rigid Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
<th>500 lb. Max. Vertical Load</th>
<th>Weight</th>
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<td>54,432</td>
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<td>2.38” Eye</td>
<td>18,000</td>
<td>8,165</td>
<td>500</td>
<td>227</td>
</tr>
<tr>
<td><strong>DB-1422</strong></td>
<td>90,000</td>
<td>40,824</td>
<td>120,000</td>
<td>54,432</td>
</tr>
<tr>
<td>2.38” Eye</td>
<td>18,000</td>
<td>8,165</td>
<td>500</td>
<td>227</td>
</tr>
</tbody>
</table>

**Hinged Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
<th>500 lb. Max. Vertical Load</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DB-1400</strong></td>
<td>90,000</td>
<td>40,824</td>
<td>120,000</td>
<td>54,432</td>
</tr>
<tr>
<td>2.38” Eye</td>
<td>18,000</td>
<td>8,165</td>
<td>500</td>
<td>227</td>
</tr>
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<td><strong>DB-1422</strong></td>
<td>90,000</td>
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</tr>
<tr>
<td>2.38” Eye</td>
<td>18,000</td>
<td>8,165</td>
<td>500</td>
<td>227</td>
</tr>
</tbody>
</table>

---
DB-1400AC Series: DB-1400AC-1, DB-1400AC-2, DB-1400AC-3, DB-1400AC-4

- Forged, one-piece steel alloy drawbar
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

Use with 3” channel or square tubing.

Designed for 20° minimum and 60° maximum angle.

Snubber force is developed by the vehicle’s air system to provide shock absorption.

Mounting Dimensions

Rigid Tongue Trailers

<table>
<thead>
<tr>
<th>Capacities</th>
<th>DB-1400AC</th>
<th>2.38” Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTW VERTICAL</td>
<td>90,000</td>
<td>18,000</td>
</tr>
<tr>
<td>GB Vertical</td>
<td>40,824</td>
<td>8,165</td>
</tr>
</tbody>
</table>

Hinged Tongue Trailers

<table>
<thead>
<tr>
<th>Capacities</th>
<th>DB-1400AC</th>
<th>2.38” Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTW VERTICAL</td>
<td>120,000</td>
<td>500</td>
</tr>
<tr>
<td>GB Vertical</td>
<td>54,432</td>
<td>227</td>
</tr>
</tbody>
</table>

Additional Information

- For off-road applications, reduce the published capacities by 25% and use with a swivel-mount coupling.
- For additional specifications, refer to document XL-DB114.

Replacement Parts

Drawbar includes a plunger and turnbuckle

A = Distance required to mount air chamber
B = Rod length

<table>
<thead>
<tr>
<th>MODEL*</th>
<th>DIM *A”</th>
<th>DIM *B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-1400AC-1</td>
<td>15.25”</td>
<td>12.00”</td>
</tr>
<tr>
<td>DB-1400AC-2</td>
<td>11.25”</td>
<td>8.00”</td>
</tr>
<tr>
<td>DB-1400AC-3</td>
<td>10.25”</td>
<td>7.00”</td>
</tr>
<tr>
<td>DB-1400AC-4</td>
<td>13.25”</td>
<td>10.00”</td>
</tr>
</tbody>
</table>

*Air cylinder is NOT included; order separately.
DB-1407

- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

**Rigid Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-1407-L-1/-S-1/-SE-1</td>
<td>GTW VERTICAL</td>
<td>85,000</td>
</tr>
<tr>
<td>2.38˝ Eye</td>
<td></td>
<td>38,556</td>
</tr>
</tbody>
</table>

**Hinged Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTW VERTICAL</td>
<td>120,000</td>
<td>500</td>
</tr>
<tr>
<td>500 lb. Max. Vertical Load</td>
<td>54,432</td>
<td>227</td>
</tr>
</tbody>
</table>

**Additional Information**

- For off-road applications, reduce the published capacities by 25% and use with a rigid-mount coupling.
- For additional specifications, refer to document XL-DB117.

**Mounting Dimensions**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th><strong>CHAMFER D</strong></th>
<th>WEIGHT lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-1407-S-1*</td>
<td>11.62˝</td>
<td>9.6˝</td>
<td>9.5˝</td>
<td>.38˝ x 45°</td>
<td>24</td>
<td>10.9</td>
</tr>
<tr>
<td>DB-1407-L-1*</td>
<td>12.25˝</td>
<td>10.3˝</td>
<td>10.1˝</td>
<td>.38˝ x 45°</td>
<td>25</td>
<td>11.3</td>
</tr>
<tr>
<td>DB-1407-SE-1*</td>
<td>13.13˝</td>
<td>11.1˝</td>
<td>11.0˝</td>
<td>.38˝ x 45°</td>
<td>26</td>
<td>11.8</td>
</tr>
</tbody>
</table>

* Includes drawbar washer, nut and retaining ring.
** The mounting surface must have adequate chamfer, as shown above, so that the drawbar mounts flush with the mounting surface.

**Replacement Parts**

- XB-T-318
- XB-05788
- XB-05789
**DB-1407-SE and DB-1407-S Weld-On Assemblies**

- Steel housing features replaceable rubber bushings
- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

### Hinged Tongue Trailers

<table>
<thead>
<tr>
<th></th>
<th>500 lb. Max. Vertical Load</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb.</td>
<td>kg</td>
</tr>
<tr>
<td><strong>DB-1407-SE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.38˝ Eye</td>
<td>34,000</td>
<td>15,422</td>
</tr>
<tr>
<td>GTW VERTICAL</td>
<td>500</td>
<td>227</td>
</tr>
<tr>
<td><strong>DB-1407-S</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.38˝ Eye</td>
<td>40,000</td>
<td>18,144</td>
</tr>
<tr>
<td>GTW VERTICAL</td>
<td>500</td>
<td>227</td>
</tr>
</tbody>
</table>

### Additional Information
- Rubber cushioned housings are recommended for hinged tongue trailer applications only.
- For off-road applications, reduce the published capacities by 25% and use with a swivel-mount coupling.
- For additional specifications, refer to documents XL-DB119 and 118.

### Mounting Dimensions

**DB-1407-SE**

- Minimum of 34 linear inches of .38˝ fillet weld is required to develop rated capacity.

**DB-1407-S**

- Minimum of 34 linear inches of .38˝ fillet weld is required to develop rated capacity.

### Replacement Parts

- XB-05789
- XA-05809
- XB-05788
- XB-05808
- XB-05807
- XA-05833-SE

- XB-05789
- XA-05798
- XA-05799
- XB-05813
- XB-05788
- XB-05813
- XA-05833-S
DB-045BW1 Weld-On Assembly
- Steel block housing features close dimensional tolerances
- Features grease zerk for easy lubrication

DB-045BS1 Bolt-On Drawbar
- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

Rigid Tongue Trailers | Hinged Tongue Trailers
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacities</td>
<td>lb.</td>
<td>kg</td>
<td>lb.</td>
<td>kg</td>
<td>lb.</td>
</tr>
<tr>
<td>DB-045BW1 Assembly 2.38’’ Eye</td>
<td>GTW</td>
<td>45,000</td>
<td>9,000</td>
<td>20,412</td>
<td>4,082</td>
</tr>
<tr>
<td></td>
<td>GTW VERTICAL</td>
<td>38,556</td>
<td>227</td>
<td>85,000</td>
<td>500</td>
</tr>
<tr>
<td>DB-045BS1 Drawbar 2.38’’ Eye</td>
<td>GTW</td>
<td>45,000</td>
<td>9,000</td>
<td>20,412</td>
<td>4,082</td>
</tr>
<tr>
<td></td>
<td>VERTICAL</td>
<td>38,556</td>
<td>227</td>
<td>23</td>
<td>10.4</td>
</tr>
</tbody>
</table>

Additional Information
- For off-road applications, reduce the published capacities by 25% and use with a rigid-mount coupling.
- For additional specifications, refer to document XL-DB131 or XL-DB132.

Mounting Dimensions

*NOTE: Minimum of 24 linear inches of .38” fillet weld required to develop rated capacity.

NOTE: The mounting surface must have an adequate chamfer, as shown above, so that the drawbar mounts flush with the mounting surface.
**DB-610-30 Weld-On Assembly**

- Steel block housing features close dimensional tolerances
- Features grease zerk for easy lubrication

**DB-1249-49 Bolt-On Drawbar**

- Forged, one-piece steel alloy drawbar
- Heat treated for strength
- I.D. of eye is induction hardened for wear resistance
- Tested in accordance with SAE J847

---

**Rigid Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
<th>Weight</th>
<th>lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DB-610-30 Assembly</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3&quot; Eye GTW</td>
<td>45,000</td>
<td>9,000</td>
<td>85,000</td>
<td>38,556</td>
<td>227</td>
</tr>
<tr>
<td><strong>DB-1249-49 Drawbar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3&quot; Eye GTW</td>
<td>45,000</td>
<td>9,000</td>
<td>85,000</td>
<td>38,556</td>
<td>227</td>
</tr>
</tbody>
</table>

---

**Hinged Tongue Trailers**

<table>
<thead>
<tr>
<th>Capacities</th>
<th>lb.</th>
<th>kg</th>
<th>Weight</th>
<th>lb.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DB-610-30 Assembly</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3&quot; Eye GTW</td>
<td>20,412</td>
<td>4,082</td>
<td>36</td>
<td>16.3</td>
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<tr>
<td><strong>DB-1249-49 Drawbar</strong></td>
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<td></td>
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<tr>
<td>3&quot; Eye GTW</td>
<td>20,412</td>
<td>4,082</td>
<td>24</td>
<td>10.9</td>
<td></td>
</tr>
</tbody>
</table>

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**Additional Information**

- For off-road applications, reduce the published capacities by 25% and use with a rigid-mount coupling.
- For additional specifications, refer to document XL-DB109 or XL-DB106.

---

**Mounting Dimensions**

*NOTE: Minimum of 24 linear inches of .38" fillet weld required to develop rated capacity.

NOTE: The mounting surface must have an adequate chamfer, as shown above, so that the drawbar mounts flush with the mounting surface.
COUPLING ACCESSORIES

- Drawbar Guides
- Pintle Hook Wear Gages
- Plunger Adjustment Gages
- Tow Hooks
- Dolly Master
Coupling Accessories

Drawbar Guides: XA-02556 (left) and XA-02555 (right)

Application
Used in conjunction with PH-210, PH-300(R), PH-310, PH-400(H), PH-410, PH-419 and PH-550 Series pintle hooks to simplify the coupling procedure by guiding the drawbar into the pintle hook throat.
For installation instructions, refer to document number XL-PH353.

Pintle Hook Wear Gages

<table>
<thead>
<tr>
<th>PINTLE HOOK</th>
<th>WEAR GAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-550</td>
<td>TF-10520</td>
</tr>
<tr>
<td>PH-200, PH-210, PH-300, PH-400, PH-400-H, PH-310 &amp; PH-410</td>
<td>TF-10612 (shown)</td>
</tr>
<tr>
<td>PH-760 and PH-775</td>
<td>TF-10521</td>
</tr>
<tr>
<td>PH-T-60-AOL-8, PH-T-60-AOS-L-8, PH-30, PH-35</td>
<td>TF-10522</td>
</tr>
<tr>
<td>PH-T-90-A and PH-T-126-A</td>
<td>TF-10523</td>
</tr>
<tr>
<td>PH-30RP, PH-30SA, PH-30SB</td>
<td>TF-10960</td>
</tr>
<tr>
<td>PH-10RP with Frame Numbers XD-11047 or XE-10634</td>
<td>TF-10960</td>
</tr>
<tr>
<td>PH-10RP with Frame Number XD-11047-10</td>
<td>TF-11402</td>
</tr>
</tbody>
</table>

Plunger Adjustment Gages

Application
The plunger adjustment gage establishes proper air cylinder plunger adjustment.

PH-200, PH-300, PH-400, PH-400-H and PH-550 Series

Product Information
- For more product specific mounting information and operating instructions, refer to document number XL-PH304.

PH-210, PH-310 and PH-410 Series

- Not available for PH-419
TH-10050-3 and TH-10050-5

Application
Super strong and tough, these tow hooks are designed to be used in pairs for a tow cable or chain attachment. The tow hooks are designed for emergency towing only. Forges steel alloy tow hooks are heat treated and angled configuration to be used in pairs.

Mounting Dimensions

TH-10050-3L, -3R or -3B for boxed pair
Use (2) 3/4˝ Grade 8 bolts

TH-10050-5L, -5R or -5B for boxed pair
Use (2) 20mm Grade 8 bolts

Full Face* Mount rating: 45,000 lbs. (20,410 kg)
Full Cantilevered** rating: 33,000 lbs. (14,970 kg)

Weight: 4.6 lbs. (2.1 kg) each

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Drawbar Hinge and Frame Brackets: XD-5275, XD-5315, RK-1024, XB-1020

XD-5275
Description
Drawbar front bracket.
Replaces Fruehauf part FLA-005275

Capacities
200 lbs. Maximum Vertical Load
53,000 lbs. Maximum Gross Trailer Weight

XD-5315
Description
Drawbar hinge.
Replaces Fruehauf part FCA-005315

Capacities
200 lbs. Maximum Vertical Load
56,000 lbs. Maximum Gross Trailer Weight

RK-1024
Description
Equalizer bushing assembly.

XB-1020
Description
Bushing.
Replaces Fruehauf part UXA-00000

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TF-675 and TF-675-1 Dolly Master™

Application

The Dolly Master™ provides a low-cost, efficient way to position converter dollies in the yard. The Dolly Master is an air-operated, truck-mounted steel frame assembly that includes a vertical slide with guide ramps to which a 1.75˝ diameter coupling pin is attached. A double-acting air cylinder, which uses the truck's air supply, raises and lowers the slide. A control valve is operated from within the cab.

IMPORTANT: The Dolly Master is not intended for use in trailer spotting or coupling.

The Dolly Master can be bolted or welded to the tow vehicle. It has few moving parts so it's easy to maintain.

Up/Down cab control allows the driver to secure and release the dolly from within the cab.

Weight: 116 lbs.

Capacities

390 lbs. (177 kg) Maximum Vertical Load
15,000 lbs. (6,800 kg) Maximum Gross Trailer Weight

TF-675 Mounting Dimensions

Replacements Parts

TF-675-1 Mounting Dimensions

Replacements Parts

Additional Information

• For more product specific mounting information and operating instructions, refer to document number XL-PH-240-01.
REFERENCE
SECTIONS

- Safety Information
- Warranty
- Coupling System Selection
- Operating Conditions
- Cushioning Systems
- Mounting Information
- Glossary
General Safety Information

Introduction
In the following section of this catalog, you will notice the terms “IMPORTANT” and “WARNING” followed by important product information. Those terms are described as follows:

IMPORTANT: Included additional information that if not followed could lead to hindered product performance.

WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

General Safety Information
In the safety information below, you will notice the term ‘WARNING’ which indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

1. Always read the Product Specification Sheet or Owner’s Manual associated with each product before installation or use of the product. These manuals are shipped with each product or can be obtained from the SAF-HOLLAND website at www.safholland.us.

2. Do not modify or add to these products.

3. Never exceed the manufacturer’s rated capacities of a coupling device, including Maximum Gross Trailer Weight and Maximum Vertical Load.

4. For over-the-road applications, SAF-HOLLAND recommends that a coupling device be equipped with both a primary and secondary lock.

5. For off road applications or vehicle operation over rough terrain, use a 1) swivel-mount coupling device with a rigid-mount drawbar, or 2) a rigid-mount coupling device with a swivel-mount drawbar. Never use a swivel-mount coupling device with a swivel-mount drawbar.

6. For rigid tongue trailers towed with ball, pintle hook or coupler style coupling devices, most hitch and trailer manufacturers recommend a vertical (tongue) load of 10% - 15% of the gross trailer weight (GTW). Do not tow a trailer that has a negative vertical load.

IMPORTANT: Do not weld on these products, except as specified by SAF-HOLLAND for welded installation.

WARNING Weld repairs to repair a broken part or to build-up a worn surface are strictly forbidden. Such weld repairs could locally alter the chemistry and heat treatment of the metal, alter the strength of the coupling device, or create a stress concentration that could result in structural failure resulting in death or serious injury.

8. Prior to use, always inspect a coupling device for excessive wear, cracks, bent or deformed components, secure mounting, and damaged or missing parts. Immediately inspect a coupling device which has been subjected to overload or binding due to jackknifing or excessive articulation.

WARNING Failure to inspect a coupling device prior to use could result in vehicle and trailer separation which, if not avoided, could result in death or serious injury.

9. Never strike any part of a coupling product with a hammer or other tool as parts could break.

10. Mounting bolts must be long enough to provide a minimum of two (2) full threads beyond the end of the nut. Always use ASTM Grade 8 bolts with ASTM Grade C lock nuts with hardened steel washers for installation and mounting. Torque to manufacturer’s specifications and do not over-torque.

WARNING Failure to use a long enough bolt or proper fastener type for mounting could result in vehicle and trailer separation which, if not avoided, could result in death or serious injury.

11. Verify that the drawbar size is compatible with the coupling device of the tow vehicle. Refer to the ‘Drawbar Compatibility Chart’ located in this catalog.

12. Verify that a pintle hook latch closes and locks completely prior to use.

WARNING Failure to correctly close and lock a pintle hook latch can result in vehicle and trailer separation which, if not avoided, could result in death or serious injury.

13. Check the pintle hook latch gap, which is the space between a closed latch and the top of the pintle hook horn. If the latch gap is 0.38˝ (9.5mm) or larger, do not use the pintle hook.

14. Do not over-articulate a coupling connection by jackknifing or binding during vehicle operations.

WARNING Failure to avoid over-articulation of a coupling connection due to jackknifing or binding could result in failure of the coupling device(s) which, if not avoided, could result in death or serious injury.

15. Do not apply grease or other lubricants to the hook of the coupling device or drawbar eye which may trap abrasive sand and dirt which can accelerate wear in the coupling connection. Additionally, grease or other lubricants can hide cracks or damage present in coupling components.

17. Always use SAF-HOLLAND Original Parts for repair.

**WARNING** Installation and use of non original SAF-HOLLAND parts could result in failure of the coupling device(s) which, if not avoided, could result in death or serious injury.

SAF-HOLLAND recommends that trailer and dolly manufacturers, distributors, and users be familiar with applicable national, state and local regulations governing coupling systems and safety devices such as safety chains.

Within the United States, the following is a partial list of sources for regulations and information pertaining to trailer towing:

- National Highway Traffic Safety Administration (NHTSA) – Federal Motor Carrier Safety Standards and Regulations
- National Association of Trailer Manufacturers (NATM)
- Trailer Safety Industry Coalition (TSIC)
- Society of Automotive Engineers (SAE) Design and Test Standards
- American Trucking Association (ATA) – Technology & Maintenance Council (TMC) Recommended Practices
- Truck Trailer Manufacturers Association (TTMA)

Recommended coupling and uncoupling procedures are also available from several of the above listed sources.

**Warranty**

Products in this catalog are covered by SAF-HOLLAND’s Commercial Warranty for Coupling Products. For North America, this is a two-year parts and labor warranty. For other countries or regions, refer to the appropriate coupling products warranty available on our website.
Coupling System Selection

Gross Trailer Weight (GTW)

GTW is the weight of an empty trailer plus the weight of its maximum payload. This is shown as Gross Vehicle Weight Rating (GVWR) as specified by the trailer manufacturer and is shown on the manufacturer’s identification label located on the trailer. If the label is missing or unreadable, contact the trailer manufacturer for GVWR information.

Always use the GVWR as supplied by the trailer manufacturer as the ‘minimum’ gross trailer weight that the coupling system is to be selected for.

If various size trailers will be towed, the trailer with the largest GVWR must be used to determine the capacity requirements of the coupling device.

If a tow vehicle will pull multiple trailers at the same time, as with doubles, triples and road trains, the sum of the GVWRs for all towed trailers must be used to determine the capacity requirements of the coupling device.

Maximum Vertical Load

Vertical load is the upward force exerted on the drawbar eye of the trailer and the downward force exerted on the coupling device of the tow vehicle.

Hinged Tongue Trailer

The tongue is hinged to the trailer so that the tongue will not transfer the vertical weight of the trailer or payload to the coupling devices. The vertical load imposed on a coupling device by a hinged tongue trailer is approximately one-half of the weight of the hinged tongue/drawbar assembly only. Where vertical load on the coupling device is limited due to a hinged tongue, the maximum gross trailer weight rating for the drawbar/eye may be increased (see drawbar product pages for specific ratings).

Rigid Tongue Trailer

The tongue and trailer form a single rigid unit so that the vertical load measured at the drawbar eye includes the weight of the trailer and its payload. The vertical load is generally recommended to be a minimum of 10% - 15% of the maximum gross trailer weight.

Payload Changes Vertical Load

The type of load, density of the load, and placement of the load in relation to the trailer axles will have a significant effect on the vertical load at the trailer tongue. Excessive vertical loads, approaching 20% of gross trailer weight, can result in accelerated wear and over-loading of the coupling devices.

<table>
<thead>
<tr>
<th>Payload</th>
<th>Vertical Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td></td>
</tr>
<tr>
<td>4,000</td>
<td></td>
</tr>
<tr>
<td>8,000</td>
<td></td>
</tr>
</tbody>
</table>

Drawbar Compatibility

The size of the drawbar eye (lunette) must be compatible with the coupling device of the tow vehicle. This includes the inside diameter (I.D.) of the eye and the cross-section dimension(s) of the eye. Proper eye selection will allow for adequate clearance between the eye and its mating component to help prevent binding between coupling components. If a trailer is to be pulled by more than one tow vehicle, compatibility should be checked with the coupling devices of each tow vehicle.

Over-The-Road Locking Systems

SAF-HOLLAND recommends that all couplers and pintle hooks used in over-the-road applications be equipped with both a primary lock and secondary lock. Holland FastLatch™ incorporates both the primary and secondary locks into a single integrated latch system.
Operating Conditions

Off-Road / Rough Terrain Applications

Reduction in Rated Capacities

For off-road and rough terrain applications, the rated capacities (MGTW and Maximum Vertical Load) of the coupling devices for both the tow and towed vehicles should be reduced by a minimum of 25% to accommodate the increase in dynamic loading.

Example – A pintle hook rated at 100,000 lbs. (45,360 kg) MGTW and 20,000 lbs. (9,070 kg) maximum vertical load would, for off-road applications, be rated at 75,000 lbs. (34,020 kg) MGTW and 15,000 lbs. (6,800 kg) Maximum Vertical Load.

Articulation

Maximizing the range of articulation between the drawbar eye of the trailer and the coupling device of the tow vehicle is critical for good off-road performance. Holland pintle hooks are designed for maximum articulation with Holland drawbars. Other considerations include:

- A swivel-mount coupler/pintle hook or swivel-mount drawbar can further enhance articulation in off-road applications. The swivel-mount feature provides rotation to help prevent binding between the drawbar eye, coupler or pintle hook. Note however that you should never use a swivel-mount coupler/pintle hook with a swivel-mount drawbar. The two swivel-mount components could lead to over-rotation of the coupling device.

- It is important to coordinate the size of the drawbar eye with the mating component of the coupler or pintle hook. Proper sizing will allow for optimum articulation of the coupling system when driving over uneven terrain. Reference Drawbar Compatibility Chart on pages 42 – 43 for assistance in the selection process.

Cushioning Systems

Holland cushioning (shock absorption) systems include:

- **Rubber Mount**
  Absorbs shock loads from hard coupling, vehicle launch and braking (reference Holland products PH-990, DB-1407-S, and DB-1407-SE).

- **Steel Spring**
  Absorbs shock loads during vehicle launch and acceleration (reference Holland products PH-30SA and PH-30SB).

- **Pneumatic Snubber**
  For vehicles equipped with air systems, a snubber with force supplied by an air service chamber helps to minimize ‘free play’ or ‘slack’ between the drawbar eye and coupling device as well as absorbing shock loads during deceleration and braking (Reference Holland products PH-210, PH-300(R), PH-310, PH-400(H), PH-410, PH-419, PH-550, and DB-1400AC).
Mounting Information

Mounting Height
When mounting a coupling device, a height should be selected that results in the chassis of the towed vehicle being close to level with the ground. An offset in mounting height will create vertical and horizontal displacement of the drawbar in relation to the mating component of the coupling device. This mismatch in height will lead to accelerated wear and changes in vehicle handling.

Improper Mounting Height
(causing excessive vertical and horizontal movement)

Mounting Surface
The mounting surface for a coupling device must be flat and of adequate strength to support the rated capacity of the coupling device. It must have sufficient vertical load and horizontal load capability to comply with the requirements of SAE J847.

Mounting Hardware
All mounting hardware must be new ASTM Grade 8 bolts with hardened steel washers and ASTM Grade C locknuts. Bolts should be of sufficient length to provide a minimum of two (2) full threads beyond the end of the nut under recommended torque.

Proper Fastener Selection

Bolt head designation for Grade 8 is 6 equally spaced bars as shown.

A minimum of 2 full threads must be exposed after proper torquing.

To develop the full rated capacity of a coupling device, all required mounting fasteners must be present with proper and equal torque applied to each fastener. Torque values and procedures should follow SAE J429 and are stated in the Owner’s Manual shipped with each Holland coupling product. This information is also available online at the SAF-HOLLAND website.
**Glossary**

**ASTM**
American Society for Testing and Materials

**Converter Dolly / Dolly**
An auxiliary axle chassis consisting of a frame with single or tandem axles, suspension, fifth wheel, and tongue with drawbar. A dolly is used to convert a semi-trailer into a full trailer.

**‘A’ Dolly**
A converter dolly with a single point of attachment to the towing vehicle; the point being located along the centerline of the dolly.

**‘C’ Dolly**
A converter dolly with two points of attachment to the towing vehicle; the points being equally spaced along the centerline of the dolly.

**Drawbar**
The structural member of the trailer tongue that attaches the drawbar eye or lunette to the trailer tongue. Drawbars are typically bolt-on or weld-on and are available as rigid mount or swivel mount.

**Drawbar Eye / Lunette**
A round “doughnut” shaped device used to couple a trailer tongue to a towing vehicle equipped with a coupling device such as a pintle hook or coupler.

**Full Trailer**
A trailer equipped with two or more axles that support the entire weight of the trailer. Full trailers typically feature a hinged trailer tongue.

**Gross Trailer Weight (GTW) / Maximum Gross Trailer Weight (MGTW)**
The actual total weight measured at the ground of a fully loaded trailer or multiple coupled trailers. Maximum Gross Trailer Weight is the largest weight of both the trailer(s) and payload that can safely be towed by a coupling device.

**Gross Vehicle Weight Rating (GVWR)**
The value specified by the manufacturer as the loaded maximum weight of a single motor vehicle or trailer.

**Jackknife**
Over-articulation between the towing and towed vehicles (generally greater than 90 degrees) that results in binding at the coupling connection.

**Negative Vertical Load**
The load as an upward force measured at the drawbar located at the coupling end of the trailer tongue. A negative vertical load typically results from the payload being placed behind the trailer axle (see illustration).

**Off-Road**
Refers to terrain on which a towing/towed vehicle will operate which is ungraded, rough or undulating, with no maintained travel surface, generally considered to not be part of the public road system. Examples include agricultural fields, construction sites, utility right-of-way, temporary logging roads, and what is commonly referenced as ‘two-track’ roads.

**Over-The-Road**
Refers to terrain on which a towing/towed vehicle will operate which is paved or features a graded surface, generally considered to part of the public road system.

**SAE**
Society of Automotive Engineers
- J429 - Mechanical and material requirements for externally threaded fasteners
- J847 - Trailer towbar eye and pintle hook/coupler performance

**Semi-trailer**
A trailer, except pole trailer, so constructed that a substantial part of its weight rests upon or is carried by another vehicle or converter dolly.

**Tare Weight / Unloaded Vehicle Weight (UVW)**
The total weight of a vehicle at the ground, including normal fluids and equipment, in a condition to receive occupants and payload.

**Trailer Tongue**
The structural member of a trailer that connects to a towing vehicle.

**Vertical Load / Maximum Vertical Load**
The load or downward force measured at the drawbar located at the coupling end of the trailer tongue. Maximum Vertical Load is the manufacturer’s recommended static vertical load (down) that can be safely applied to the coupling device.
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