Cataloque and Selection Guide

Pintle Hooks
Couplers
Drawbars
Tow Hooks
Tow Shackle
The Holland Group, Inc. is an internationally recognized leader in the design, manufacturing, and distribution of a wide variety of components for the transportation industry. Products include:

- Coupling systems and equipment.
- Lift and suspension systems for trucks, buses, tractors, and trailers
- Airline ground support equipment
- Industrial material handling segments of the industry.

Holland products include:

- Tractor fifth wheels and suspensions
- Trailer landing gear
- Air and mechanical suspensions
- Roll formed products
- Kingpins
- And a broad line of Holland branded pintle hooks, couplers, and drawbars reaching across all the above-listed industry segments.

All Holland products are application specific. They have been designed, tested, and manufactured to rigid quality standards and distributed through our industry's North American tractor and trailer OEMs, their dealer networks, and through Holland's extensive independent warehouse distribution networks in the U.S., Canada, and Mexico. Holland products are distributed worldwide through OEMs and a variety of aftermarket distribution networks.

This publication has been developed to aid coupler components users (pintle hooks, couplers, drawbars, tow hooks, and tow shackles) in product selection. Product application, product features and benefits, mounting, safety and operational considerations are thoroughly covered. Replacement part explosions are shown for ease in identification.

Holland also separately provides individual specification sheets for each coupling component, covering applications, installation, mounting dimensions, operating and safety instructions, and replacement parts explosions. These are available from any Holland warehouse distributor, Holland USA (1-888-396-6501), Holland customer service department, and on our website at www.thehollandgroupinc.com.
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**Holland reserves the right, without prior notice, to change specifications and dimensions as designs are altered and/or improved. Options and features other than those shown may be provided. Contact a Holland representative for information.**
Section I – Items to Consider in Selecting a Coupling System

Design Guidelines

Pintle hooks, couplers and mating drawbars are designed to provide reliable, durable connections in commercial and industrial towing applications where capacities usually exceed 10,000 lbs. gross trailer weight. These components are designed to be used primarily for towing and where backing up of vehicles is limited. Damage to the coupling components, fasteners, mounting structure and safety chains can occur from the drawbar binding in the pintle horn or from jackknifing if the vehicle is turned while backing up.

Selection Process

Selecting the proper coupling device requires knowing the specific details of the application and selecting components that are compatible with those requirements.

1. The process begins by defining the components to be used:
   a. Pintle Hook – a coupling device that utilizes a fixed towing horn. It mates with a drawbar that is attached to a towed vehicle. This device is coupled by raising that drawbar eye over the pintle horn and securing it by closing a pivoting swing-down latch (see Figure 1).

   Figure 1

   Pintle hooks are designed in two mounting types: rigid or swivel (See Sec. II for details). Models are available with air, rubber, or spring cushioning.

   b. Coupler – a coupling device that differs from a pintle hook in that the towing horn is not fixed, but pivots. This device is coupled by backing the coupler into a drawbar that is attached to the towed vehicle. The drawbar activates the pivoting horn (or jaw), which automatically swings up into the center of the drawbar eye securing the drawbar to the coupler (see Figure 2).

   Figure 2

   Couplers are generally the rigid mount type (see Sec. II for details). They are designed primarily for material handling applications where some additional slack between the coupling device and drawbar is not detrimental to its operation. Some additional considerations for the use of a coupler are:
   1. Frequent coupling and uncoupling
   2. Swivel mounting is not required
   3. Coupling ease and speed is required
   4. Drawbar is fixed or when lifting the drawbar is not desired

   c. Drawbar (also called a Lunette) – is the mating part to the pintle hook or coupler in the coupling system. It is a steel “doughnut” shaped component that is attached to the towed vehicle by various bolting or welding configurations (see Sec. II for details). There are five types of drawbars:
   1. Welded-on rigid mount
   2. Welded-on swivel mount (with rubber cushion option)
   3. Welded-on rigid mount with air cushion
   4. Rigid bolt-on (square mounting base)
   5. Rigid bolt-on (rectangular shank)

   The common drawbar eye diameters are 2.38”, 2.5” and 3” (see Sec. I, item 6 below).

   d. Tow Hook – a coupling device that is usually mounted to the underside of the front bumper of a truck. It is used to provide an attachment point for pulling vehicles when stuck in sand, mud, snow, etc. Tow hooks are usually sold in sets. Tow hooks are not designed for towing vehicles on the road. Tow hooks are available in two types: a straight hook and an angled hook (either to the right or to the left).

   e. Tow Shackle – a coupling device that is primarily (but not always) used to tie down loads onto a trailer.

2. Rated capacities must be considered in the application/selection process. They include: gross trailer weight, vertical load, and combined drawbar load/vertical load capacity ratings.

   The published rated capacities of a coupling device are the maximum operating loads that can be applied under dynamic or operating conditions. Rated capacities have been established to safely handle the stresses created on the coupling system during operation and result from the combination of the vertical load, drawbar load, and maximum gross trailer weight. Note: The rated capacities must never be exceeded.

   continued
Section I – Items to Consider in Selecting a Coupling System

cont.

a. **Gross Trailer Weight Capacity**

The capacities of each coupling device are shown on that product’s specification sheet. Included is the maximum gross trailer weight rating (GTW) for each product. Holland tests coupling devices in accordance with SAE J847 and J849 standards. These two SAE standards refer to Type I and Type II load conditions. Type I typically applies to applications using hinged tongue drawbars or where the maximum vertical load is 500 lbs. Type II rating occurs in applications where maximum vertical load is being applied.

The gross trailer weight is the weight of the trailer plus the maximum payload. If the actual gross trailer weight for the application is not known, or if there are multiple load conditions, use the trailer’s maximum gross vehicle weight rating, also known as the GVWR. The GVWR is specified by the trailer manufacturer and appears on a tag attached to the trailer. If various size trailers will be towed, the trailer with the largest GVWR must be used to determine the capacity requirements for a coupling device. If the towing vehicle will pull multiple trailers at the same time, the sum of the GVWRs for all towed trailers must be used.

b. **Vertical Load Capacity**

The vertical load capacity of each coupling device is given on the product’s specification sheet as maximum vertical load. The vertical load of a rigid tongue trailer is the tongue weight that results from the weight of the trailer and its payload and is measured at the coupling device.

The vertical load of a hinged tongue trailer is not affected by trailer weight or by the amount or location of the payload (see Figure 3). The pivot point provided on the tongue does not transfer the trailer’s vertical weight or payload through the drawbar. The vertical load imposed on the coupling device by a hinged tongue trailer is approximately one-half the weight of the drawbar.

**Figure 3**

**Hinged Tongue Trailers**

**Rigid Tongue Trailers**

Additional Factors

The maximum vertical load is the weight of the trailer tongue when the trailer is loaded to its maximum gross vehicle weight rating. For coupling component selection purposes, the load should be placed in such a way that it results in the largest tongue weight the application will receive (see Figure 4). The placement of the load on the trailer is very important and will have a **drastic** effect on the vertical load at the trailer tongue. When selecting a coupling device, the maximum operating requirements should be coordinated with the published rated capacities.

In some pintle hook and all drawbar applications where the vertical load on the coupling device can be limited because of a hinged tongue drawbar, the maximum allowed gross trailer weight is increased. These capacities are also specified on the product’s specification sheet.

**Figure 4**

For selection purposes only, the payload should be located such that it results in the largest tongue weight.

If the proposed application requires operating at the maximum vertical and maximum gross trailer weight capacities, and the combination may see some shock loading, consideration should be given to selecting a coupling device with a higher rated capacity.

3. **Vertical Load Calculation**. The vertical load at the trailer tongue should be at least 10% of the gross trailer weight, but not more than the rated vertical capacity. This provides a good balance between insufficient and excessive vertical loads.

A proper vertical load assists in stabilizing the drawbar in the coupling device to provide better directional control on cornering. It also reduces the sawing effect of the drawbar in the coupling device, which results from slight speed changes. Insufficient vertical load increases this sawing effect and results in excessive component wear. Excessive vertical load (approaching or exceeding 20%) can also result in accelerated wear of both the coupling device and drawbar. It also unnecessarily increases the weight on the towing vehicle’s suspension and frame.

Exceeding the vertical capacity rating is the single largest contributor to coupling device failure. Operating a coupling device in a condition where its rated capacities are exceeded—even if it happens only one time—can lead to a fatigue failure of the coupling device.

Vertical load can vary dramatically. This occurs when the type of load, its density, or the placement of the
load in relation to the axles vary. Utility type trailer applications can experience large variations in vertical load when hauling such things as bulldozers, backhoes, and front-end loaders (see Figure 6). Some provision should be made (for example: a stop) to assure that the trailer is loaded appropriately, so the vertical rated capacity of the coupling device is not exceeded.

Figure 6  Payload Changes Vertical Load

1,000 POUNDS

4,000 POUNDS

8,000 POUNDS

4. Off-Road Applications
For off-road applications, the rated capacity of the coupling device must be reduced by 25%, and either the drawbar or the pintle hook must be of a swivel construction. The swivel provides additional side-to-side rotation (oscillation) over uneven terrain. The capacities are reduced by 25% to provide for the increased dynamic shock loads generated by operating over rough terrain. The calculation in Section III, Step 4 can be used to modify the capacities to allow for shock loads in lieu of modifying the capacity of the coupling device (see item 6 – drawbar considerations – for additional off-road recommendations).

5. Over-The-Road Locking Systems
Holland recommends that all pintle hooks or couplers used in over-the-road applications be equipped with a secondary lock.

6. Drawbar Considerations
   Drawbar Eye Size
   a. It is important to coordinate the size of the drawbar eye with the mating coupler component for proper fit. Common drawbar eye diameters are 2.38”, 2.5”, and 3”. A proper fit will allow for adequate clearance during the turning and rotation (oscillation) on uneven terrain. If the horn of the coupling component is too large, binding between drawbar and coupler will occur. Recommended drawbar sizes are shown on each coupler’s specification sheet.

b. If there is potential for the drawbar to reach its limit of rotation (oscillation), even in an over-the-road application, then either a swiveling pintle hook/coupler or drawbar must be used to provide necessary oscillation and to eliminate damage to the coupling devices.

   CAUTION  Never use both a swiveling drawbar and swiveling coupler component at the same time.

7. Cushioning Considerations
There are two types of cushioning designs:
   a. One provides shock absorption upon start-up.
   b. The other provides snubbing of the clearance between drawbar eye and pintle or coupler horn for shock absorption during decelerations (see Figure 7A).

Both are available on various pintle hooks and drawbars, but not on couplers. If a coupler is used and cushioning is required, a cushioned drawbar must be used (see Figure 7B).

Figure 7A
Shock Absorption Cushion

Figure 7B
Snubber Cushions

Snubber Cushion

Shock absorption cushioning is generally specified when a soft start-up is desired. Snubber cushioning is used to provide improved trailer direction control and to eliminate 'free play' for hinged tongue drawbars. They are also used in applications where vertical load is minimal in relationship to the gross trailer weight. Snubber cushioning also provides shock absorption upon deceleration on braking.
Section II – Description of Pintle Hook, Coupler, and Drawbar Types

Pintle Hook Types

Rigid Mount

**Standard**
A rigid mounted pintle hook is fixed firmly to the towing vehicle and does not have any swivel capability. (For swivel mount pintle hooks, see below.) Used for on-road applications, or in conjunction with a swivel drawbar for off-road applications.

**Duplex®**
The Holland Duplex® pintle hook is a combination pintle hook and ball hitch. It is intended for customers who pull trailers equipped with ball couplers and also trailers equipped with drawbars.

Air Cushioned (Snubber Type)
An air-cushioned pintle hook is a rigid pintle hook equipped with an air chamber connected to a plunger. This removes the slack between the pintle horn and drawbar. Air-cushioned pintle hooks are generally used in over-the-road applications.

Swivel Mount

**Without Shock Absorption Cushion**
A swivel pintle hook differs from the rigid type in that the pintle horn swivels about an axis parallel with the towing vehicle. Swivel-mounted pintle hooks are intended for on-road or off-road applications in conjunction with a non-swivel drawbar.

**With Shock Absorption Cushion**
A shock-absorption cushion is provided to cushion the start-up load and absorb any shock at start up. The cushion is provided when the shank spring is compressed. This type of pintle hook is used in the utility industry where both on- and off-road applications occur. Use with a non-swivel drawbar.
Section II – Description of Pintle Hook, Coupler, and Drawbar Types cont.

**Pintle Hook Types continued**

**Swivel Mount continued**

**Rubber Cushion**

A rubber-cushioned pintle hook is a shock-absorption style that provides both start-up cushion and side-to-side cushion. This type of pintle hook is used in the construction industry where both on- and off-road applications occur. Use with a non-swivel drawbar (i.e. DB-1224-49 or DB-610-30).

**Ball Hitch**

A ball hitch is a ball and coupler coupling device that provides a positive, no-slack fit. These hitches allow oscillation up to 30 degrees in all directions. A ball hitch is used in applications where minimal slack is desired and a high degree of articulation or oscillation is needed.

**Coupler Types**

**Rigid Mount**

**Over-the-Road**

A rigid mount coupler has the coupler body fixed in location after mounting on the towing vehicle. It includes a secondary lock and is appropriate for over-the-road applications.

**Industrial and Airport Ground Support Equipment**

These couplers are intended for industrial material handling and airport ground support applications and not for over-the-road use. They do not include a secondary lock, but feature special release systems.
Section II – Description of Pintle Hook, Coupler, and Drawbar Types cont.

Drawbar Types

Rigid Mount

Weld-On
DB-1400 slides over the tongue first and is then welded.

Weld-On with Air Cushion
This drawbar type utilizes an air chamber connected to a plunger pad to remove the slack between the pintle horn and drawbar. Air-cushioned drawbars are typically used on A-frame-type tongues where an air-cushioned pintle hook is not feasible.

Bolt-On (Plate Mount)
These drawbars are available in two configurations:
1. Rectangular shank (DB-1228-1)
2. Square mounting base (DB-060FQ1).

Bolt-On (Shank Mount)
This type of drawbar uses a large shank and nut to develop a clamping force between the drawbar and its mounting surface. This style drawbar cannot be used as a swivel drawbar because the clamping force is needed to develop the rated capacities.

Drawbar Types

Swivel Mount

Weld-On
This drawbar style allows the drawbar eye to rotate about an axis parallel with the towing vehicle, providing oscillation relief. The DB-610-20 (shown at right) can also be converted to a non-swivel drawbar.

Weld-On with Rubber Cushion
This drawbar contains an internal rubber cushion to cushion the start-up load and shock.
Section II – Description of Pintle Hook, Coupler, and Drawbar Types cont.

**Tow Hooks**

**Straight Hook Type**

These coupling devices are usually used in sets. They are available in two types:

1. Straight hooks (see TH-1276-A)
2. Angled either left or right (see TH-10050-3L or -3R)

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**Tow Shackle**

A coupling device used to tie down loads on a trailer.
Section III – Selection Procedure/How to Use this Guide

Steps in the Selection Process

Be sure to review Sec. I of this guide (items to consider before selecting a coupling component) and Sec. II (description of pintle hook, coupler and drawbar types) before proceeding to Step 1.

STEP 1 Determine the required gross trailer weight (GTW) capacity (trailer weight + maximum payload).

**NOTE:** If the actual gross trailer weight for the particular application is not known, use the GVWR (attached to the trailer). If various size trailers will be towed, the largest capacity GTW or GVWR trailer must be specified here. When the towing vehicle will pull more than one trailer at the same time (i.e. doubles, triples, etc.), the sum of the GTW capacities of all trailers towed at the same time must be used. (See following examples #1 and #2.)

GTW Max = __________

STEP 2 Determine the required vertical load capacity.

**NOTE:** If the actual vertical load (VL) for the particular application is not known, use 15% of the trailer’s GVWR (attached to the trailer), or weigh the trailer tongue when the trailer is loaded to the capacity determined in Step 1 (the trailer should be loaded such that it results in the largest possible tongue weight). (See the following examples #1 and #2.)

VL Max = __________

STEP 3 If the vehicle is to be used on road, go to Step 5.

If the vehicle is to be used off road or on road and off road, go to Step 4.

STEP 4 Adjust the capacity requirements for off-road applications.

**NOTE:** This procedure adjusts the capacities for off-road applications (allowing for a 25% reduction in capacities) as outlined in Holland specifications sheets. (Also see following examples #1 and #2.)

OFF-ROAD GTW max = GTW max (Step 1) divided by .75 = __________

OFF-ROAD VL max = VL max (Step 2) divided by .75 = __________

**NOTE:** Either a swivel drawbar or swivel pintle hook is required for off-road applications. **Do not use a swivel drawbar with a swivel pintle hook.**

STEP 5 Select the series of coupling devices that meet your requirements from Section IV of this publication, based upon the capacities determined in Step 1 and Step 2 (for over-the-road applications), or Step 4 (for off-road applications).

STEP 6 Review the specification sheets of the various pintle hooks/drawbars selected (in Step 5, above) for specific information. This literature is available from Holland USA (1-888-396-6501) or any Holland warehouse distributor, truck dealer, or on our website, www.thehollandgroupinc.com. Contact your Holland distributor for prices on models selected or your Holland representative for additional information.

STEP 7 Based upon this information, select the specific model.

**NOTE:** If there is still insufficient information to make a selection, contact your Holland representative for assistance or call Holland USA customer service (1-888-396-6501).

Selection Examples

The examples below will help clarify the selection procedure listed above. Each example poses a hypothetical situation and follows through the selection procedure.

**EXAMPLE #1**

The owner of a construction company needs to pull a 5,825 lbs. air compressor to and on construction sites. The compressor is equipped with a rigid drawbar having a 700 lbs. vertical load.

(Follow the procedure from the previous column.)

**STEP 1** GTW = 5,825 lbs.

**Explanation**
In this case, the gross trailer weight (GTW) is the same as the weight of the air compressor, because that is all that will be towed.

**STEP 2** VL max = 700 lbs.

**Explanation**
The maximum vertical load is defined as the weight of the drawbar at the drawbar (Lunette) eye. In this case the vertical load is 700 lbs.

**STEP 3** Since the load is to be towed on and off road, proceed to Step 4.

**Explanation**
This air compressor will be used at construction sites. Generally, this will involve off-road use even though most of the travel is on road. Step 3 of the selection procedure suggests that for on-road applications, go to Step 5 and for both on- and off-road applications, go to Step 4.
STEP 4  Off-Road GTW = 7,767 lbs.

Explanation
Off-Road GTW = 5,825 ÷ .75 = 7,767 lbs.
Off-Road VL = 700 ÷ .75 = 933 lbs.

This step adjusts the capacities for off-road use. Because this adjustment is done here, it will not be necessary to adjust the capacities as outlined in the detail sheets.

STEP 5  Selection Possibilities
Review Sec. IV of this publication. Select a coupling device and drawbar that have capacities greater than or equal to those calculated in Step 4 above. Remember that because this vehicle will be operated off road, either the coupling device or drawbar must have a swivel. If a drawbar has already been selected and installed on the air compressor, this will simplify the selection procedure.

STEP 6  Review the sales specification sheets.
Sales specification sheets are available from any Holland distributor or from the Holland website: www.thehollandgroupinc.com. The specification sheet gives important application and mounting information to assist the selection process.

STEP 7  Select a specific model.
PH-T-60-AOS-L-8
In this case the owner already had a rigid drawbar installed on the air compressor. Therefore, he had to have a swivel pintle hook. The PH-T-60-AOS-L-8 model chosen has a GTW capacity of 18,000 lbs. and VL of 3,600 lbs.

EXAMPLE #2
An independent contractor needs to tow a bulldozer weighing 30,000 lbs. on a trailer that weighs 15,000 lbs. to work sites.

(Follow the procedure from page 13.)

STEP 1  GTW = 45,000 lbs.

Explanation
GTW = Weight of Trailer (15,000) + Weight of Payload (30,000) = 45,000

STEP 2  VL max = 6,750 lbs.
There was no vertical load given; therefore, use 15% of the GTW: 15% of 45,000 = 6,750

STEP 3  Since the load is to be towed on and off road, proceed to Step 4.

STEP 4  Off-Road GTW = 60,000 lbs.

Explanation
Off-Road GTW = 45,000 ÷ .75 = 60,000 lbs.
Off-Road VL = 6,750 ÷ .75 = 9,000 lbs.

STEP 5  Selection Possibilities
Review Sec. IV of this publication. Select a coupling device and drawbar that have capacities greater than or equal to those calculated in Steps #1 and #4 above. Since this vehicle will be operated off-road, either the coupling device or drawbar must have a swivel.

STEP 6  Review the sales specification sheets.
Sales specification sheets are available from any Holland distributor or from the Holland website: www.thehollandgroupinc.com. The specification sheet gives important application and mounting information to assist the selection process.

STEP 7  Select a specific model.
The heavy capacities required in this application narrow the choice to one drawbar, the rigid DB-060Q1. With a rigid drawbar, the pintle hook must be a swivel model for off-road use—use model PH-775SL11.
Important Safety Information
Maintain adequate vertical (tongue) load to adequately control the trailer (generally 10% of the gross vehicle weight) but do not exceed the capacity ratings listed.
The equipment listed in this catalog must not be used or maintained in a careless manner.

During Operation
1. Be sure that the drawbar sizes are compatible with the coupling device on the tow vehicle.
2. Do not damage the jaw lock (couplers) or latch (pintle hooks). Be particularly careful during coupling and uncoupling. Make sure that the coupler jaw or pintle hook latch close and lock properly.
3. Inspect the coupling device on the tow vehicle for proper operation. Do not use any coupling device that does not operate properly.
4. Other steps and inspections are also required. Consult OSHA and D.O.T. regulations and the American Trucking Association for complete coupling and uncoupling procedures. These cover items such as cargo securement, brakes, lights, safety chains, and other important requirements.

General Information
1. Do not modify or add to these products.
2. Wear safety goggles during installation and removal.
3. Never strike any part of these products with a hammer.
4. Do not weld on these products.
These products are covered by Holland's Commercial Products Warranty. Holland reserves the right, without giving prior notice, to change specifications and dimensions as designs are altered or improved.

General Holland Coupler Product Maintenance Information
For proper performance, the following maintenance steps should be performed every 30,000 miles or 3 months, whichever comes first.
1. Clean and check for proper operation. Inspect for worn, damaged or missing parts. Replace as required using only Holland parts.
2. Inspect the coupling contact area and periodically disassemble to inspect for wear on the shank mounting flanges (example PH-760). Replace any component when wear exceeds 1/8” (0.125”) from the original surface profile.
3. Regularly lubricate latch pivot with a light oil lubricant.
4. Check mounting fasteners for proper torque.

General Holland Coupler Product Mounting Information
1. Use a mounting structure of sufficient strength to support the rated capacity of the pintle hook in accordance with SAE J849 and SAE J847 respectively.
2. Use grade 8 fasteners that are properly tightened.
For more detailed mounting information, refer to individual product specification sheets.

Important Product Information
In certain application circumstances, a medium-duty product can be used in a light-duty application; or a heavy-duty product can be used in medium- or light-duty applications.
Never use a light-duty product in medium- or heavy-duty applications.

Holland uses non-destructive testing on key or critical components. This testing includes magnetic particle inspection and ultrasonic inspection.
How to Use this Index of Components

For ease of selection, Holland has categorized pintle hooks, couplers, and drawbars according to application using vehicle gross trailer weights as follows:

- Light duty (10,000 lbs. – 19,000 lbs. GTW)
- Medium duty (20,000 lbs. – 40,000 lbs. GTW)
- Heavy duty (49,000 lbs. – 100,000 lbs. GTW)
- Doubles/Triples duty (72,000 lbs. – 100,000 lbs. GTW)
- Special duty/industrial/airport ground support equipment

These five categories are further defined throughout the following pages. Coupling products are listed by category. Features and benefits, specifications, drawbar compatibility, safety and general information, operating instructions, maintenance, mounting instructions and dimensions and exploded views for parts replacement are presented.

For further detail or the most current information, visit our website at: www.thehollandgroupinc.com

Light Duty Applications 10,000 lbs. – 19,000 lbs. GTW

- These products are used 90% on-road (maintained concrete or asphalt)
- Used to tow trailers with 1 or 2 axles
- Used with a ball coupler or pintle hook and drawbar with a small eye
- Used with an SAE rated Class III or IV receiver system
- Operated less than 50 miles between stops or trailer is lightly loaded or is empty 50% of the time.

Suggested Products:

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</table>
PINTLE HOOKS – Rigid Mount

**PH-T-60-AL**

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

Chain and cotter pin are the secondary lock.

Body and latch are made from durable cast steel for long life.

Surfaces are machined to tight tolerance to ensure durability.

**Weight:** 7 lbs.

**Capacities**
2,000 lbs. Maximum Vertical Load
10,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

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

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH202.

**Mounting Dimensions**

**Replacement Parts**

**Product Cross Reference Information**

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Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount

PH-75

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

**Capacities**
- 2,800 lbs. Maximum Vertical Load
- 14,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

**Drawbar Eye Dimensions**
2” to 3” I.D. with 1.25” to 1.62” diameter section.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH211.

**Mounting Dimensions**

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<td>6.88”</td>
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<tr>
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<tr>
<td>1.75”</td>
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<td>.52” DIA.</td>
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**Replacement Parts**

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**Product Cross Reference Information**

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Weight: 12 lbs.
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount – Duplex

PH-16-B (2” diameter ball)

Application
A special rigid mount duplex 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 ball hitches.

The secondary lock is a “D” ring for added safety.

Lighter weight yet stronger than the competitor’s offering.

Forged from a special alloy steel body that is heat treated for strength, toughness, and durability.

Our unique design is stronger and more durable than a removable ball design. The special shape eliminates premature wear typically caused by the drawbar pulling against the ball. Provides better oscillation or articulation in off-road conditions than a removable ball hitch.

Weight: 10 lbs.

Capacities

Pintle Hook:
3,800 lbs. Maximum Vertical Load
19,000 lbs. Maximum Gross Trailer Weight

2” Ball:
10,000 lbs. Maximum Gross Trailer Weight

NOTE 1: A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II). Meets J684 Class 4 standard for a 2” ball.

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH238.

Product Cross Reference Information

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<td>DPH2000</td>
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Mounting Dimensions

Replacement Parts

RK-02155 (SUB-ASSY.)

XA-02137-1
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount – Duplex

**PH-16-BA (2 5/16” diameter ball)**

**Application**

A unique rigid mount duplex pintle hook that combines a pintle hook and a 2.31” 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 ball hitches.

- Latch is made from cast steel for strength and durability.
- 2.31” ball is permanently attached. It cannot be stolen or misplaced.
- Forged alloy steel body is heat treated throughout for durable operation.
- The secondary lock is a “D” ring for added safety.
- Lighter weight yet stronger than the competitor’s offering.
- Our unique design is stronger and more durable than a removable ball design. The special shape eliminates premature wear typically caused by the drawbar pulling against the ball. Provides better oscillation or articulation in off-road conditions than a removable ball hitch.

**Weight:** 10 lbs.

**Capacities**

**Pintle Hook:**
- 3,800 lbs. Maximum Vertical Load
- 19,000 lbs. Maximum Gross Trailer Weight

**2.31” Ball:**
- 10,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

**Drawbar Eye Dimensions**

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

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH252.

**Product Cross Reference Information**

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**OBSOLETE**

Available while supplies last
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Swivel Mount

PH-T-60-AOS-L-8

Application

A swivel mount clamp mount pintle hook designed for on- and off-road applications provides torsional relief where a significant amount of articulation is required. Ideal for utility and construction applications.

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

To ensure long life, the rear mounting flange includes a zerk fitting for easy lubrication.

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

Surfaces are machined to tight tolerances to promote durability.

The secondary lock consists of a chain and cotter pin.

Weight: 15 lbs.

Capacities

Pintle Hook:
3,600 lbs. Maximum Vertical Load
18,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25%.

IMPORTANT: Must only be used with non-swivel mount drawbars.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions

2” to 3” I.D. with 1.25” to 1.62” diameter section.

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH208.

Product Cross Reference Information

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Mounting Dimensions

Replacement Parts
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Swivel Mount

PH-35

Application
A versatile swivel mount, clamp mount pintle hook designed for on- and off-road applications. This swivel pintle hook design provides torsional relief where a significant amount of articulation is required. Ideal for utility and construction applications.

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

To ensure long life, the rear mounting flange includes a zerk fitting for easy lubrication.

Latch is forged alloy steel which provides strength and durability.

Surfaces are machined to tight tolerances to promote durability.

Mounting flanges allow for varying structural thicknesses up to .69”.

NOTE: A pair of braces (XA-100-80) is available to provide added structural strength where required. See page 85 for details.

Weight: 15 lbs.

Capacities
3,600 lbs. Maximum Vertical Load
18,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25%.

IMPORTANT: Must only be used with non-swivel mount drawbars.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions
2” to 3” I.D. with 1.25” to 1.65” diameter section.

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH267.

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Mounting Dimensions

Replacement Parts

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<th>RK-05643</th>
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Latch is forged alloy steel which provides strength and durability.

Mounting flanges allow for varying structural thicknesses up to .69”.

Automatic secondary lock eliminates the need for a chain and cotter pin.

NOTES:
**DRAWBARS – Rigid Mount Bolt-On (Shank Mount)**

**DB-1250-3**

**Application**
A versatile bolt-on (shank mounted) drawbar designed for on- and off-road trailer and equipment towing within the stated capacities.

**Capacities**

3,000 lbs. Maximum Vertical Load
15,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** This drawbar cannot be used as a swivel drawbar because a clamping force is needed to develop rated capacities.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 50,000 lbs.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB104.

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</table>

**Mounting Dimensions**

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

**Replacement Parts**

XB-T-60
XB-T-9N
XA-T-56
XA-1250-13

Forged alloy steel drawbar is heat treated throughout for toughness and durable operation.

1.50” O.D. shank.

1.25” x 1.50” diameter section.

The eye shape is designed to match the pintle horn or coupler jaw in order to assure more durability and minimal wear.

The shank mount is easy to replace and offers compact installation.

Weight: 9 lbs.
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Rigid Mount Bolt-On (Rectangular Shank/Plate Mount)

DB-1228-1

Application
Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye is induction hardened in the pintle hook contact area for durable service.

For maximum durability and minimum wear, the drawbar eye has a 2.5” I.D. with a 1.25” x 1.5” diameter section to match a pintle horn or coupler jaw.

Weight: 20 lbs.

Capacities

4,000 lbs. Maximum Vertical Load
20,000 lbs. Maximum Gross Trailer Weight

NOTE 1: Do not weld! Not designed to be welded to a trailer tongue.

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 60,000 lbs.

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB101.

Mounting Dimensions

The capacities published for these drawbars are based on an over-tongue mount as shown in Figure A.

If mounted under-tongue, as in Figure B, the vertical rating may be increased by 50%. (The hinged tongue rating is not affected by over/under tongue mounting.)

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**Section IV – Holland’s Complete Line of Coupling Products continued**

**DRAWBARS – Rigid Mount Bolt-On (Rectangular Shank/Plate Mount)**

**DB-1238**

**Application**
Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

Forged alloy steel and heat treated throughout for strength, durability, and toughness.

The drawbar eye is induction hardened in the pintle hook contact area for durable service.

For maximum durability and minimum wear, the drawbar eye has a 3.0” I.D. with a 1.63” diameter section to match a pintle horn or coupler jaw.

Weight: 26 lbs.

**Capacities**

- **4,500 lbs. Maximum Vertical Load**
- **22,000 lbs. Maximum Gross Trailer Weight**

**NOTE 1: Do not weld!** Not designed to be welded to a trailer tongue.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 70,000 lbs.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB101.

**Product Cross Reference Information**

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<tr>
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<td>Safe-Tite 238DB</td>
<td>0-52-D</td>
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The capacities published for these drawbars are based on an over-tongue mount as shown in Figure A.

If mounted under-tongue, as in Figure B, the vertical rating may be increased by 50%.

(The hinged tongue rating is not affected by over/under tongue mounting.)

**Mounting Dimensions**

For maximum durability and minimum wear, the drawbar eye has a 3.0” I.D. with a 1.63” diameter section to match a pintle horn or coupler jaw.

The capacities published for these drawbars are based on an over-tongue mount as shown in Figure A.

If mounted under-tongue, as in Figure B, the vertical rating may be increased by 50%.

(The hinged tongue rating is not affected by over/under tongue mounting.)

**Figure A**

**Figure B**
Section IV – Holland’s Complete Line of Coupling Products  

**DRAWBARS** – Rigid Mount Bolt-On (4 Bolt Mounting Base/Plate Mount)  

**DB-030DQ1**

**Application**

Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The bolt pattern is the same as Holland model DB-1250-15. Use 1/2” bolts.

The bolt head area is strengthened for greater durability than similar products.

For maximum durability and minimum wear, the drawbar eye has a 2.5” I.D. with a 1.25” x 1.5” diameter section to match a pintle horn or coupler jaw.

One piece, forged alloy steel drawbar is heat treated throughout for greater strength, durability, and toughness.

Weight: 14 lbs.

**Capacities**

6,000 lbs. Maximum Vertical Load  
30,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** Not designed to be welded to a trailer tongue.

**NOTE 2:** A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

**NOTE 3:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 38,000 lbs.

Tested in accordance with SAE J847 (Type II).

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH126.

**Product Cross Reference Information**

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<tr>
<td>DB-030DQ1</td>
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</table>
Medium Duty Applications  
*(20,000 lbs. – 40,000 lbs. GTW)*

- These products are used 75% on-road (maintained concrete or asphalt).
- These products are used 25% off-road (gravel, crushed rock, hard-packed dirt, unimproved/unmaintained roads).
- Used to tow trailers with two or more axles
- Used with a pintle hook (or coupler) and drawbar (one of which will be a swivel design)
- Trailer is fully loaded 50% of the time
- No mileage requirement

**Suggested Products:**

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<td>PH-T-90-A (20,000 lbs. GTW)</td>
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<td>CP-400-H (30,000 lbs. GTW)</td>
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<th>Drawbars (rigid tongues)</th>
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<td>DB-1235-1 (35,000 lbs. GTW)</td>
<td>35</td>
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<tr>
<td>DB-040DQ1 (40,000 lbs. GTW)</td>
<td>36</td>
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<tr>
<td>DB-1245-1 (40,000 lbs. GTW)</td>
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<tr>
<td>DB-1249-2H (45,000 lbs. GTW)</td>
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<td>DB-1249-49 (45,000 lbs. GTW)</td>
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<td>DB-610-30 (45,000 lbs. GTW)</td>
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<td>DB-045BW1 (45,000 lbs. GTW)</td>
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<td>DB-060FQ1 (60,000 lbs. GTW)</td>
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<tr>
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<tr>
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<td>DB-1407-SE (34,000 lbs. GTW)</td>
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<td>DB-1250-3 (50,000 lbs. GTW)</td>
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<td>DB-040DQ1 (60,000 lbs. GTW)</td>
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<tr>
<td>DB-1228-1 (60,000 lbs. GTW)</td>
<td>23</td>
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</tbody>
</table>
PINTLE HOOKS – Rigid Mount

PH-T-60-AOL-8

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

Forged from a special alloy steel that is heat treated for strength, toughness, and durability.

A chain and cotter pin are the secondary lock.

Surfaces are machined to tight tolerances to ensure durability.

The latch is forged alloy steel and heat treated for strength and long life.

The special pintle body shape is designed for maximum articulation or oscillation and reduced wear.

Weight: 11 lbs.

Capacities
6,000 lbs. Maximum Vertical Load
30,000 lbs. Maximum Gross Trailer Weight

NOTE 1: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

NOTE 2: A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH203.

Mounting Dimensions

Replacement Parts

Product Cross Reference Information

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<tr>
<td>PH-T-60-AOL-8</td>
<td>160 Coupling</td>
<td>R15-TON</td>
<td>PH15</td>
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</table>
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount

PH-30

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

Forged from a special alloy steel that is heat treated for strength, toughness, and durability.

Unique, patented automatic secondary lock eliminates the need for a chain and cotter pin.

Surfaces are machined to tight tolerances to ensure durability.

The latch is forged alloy steel and heat treated for long life.

The special pintle body shape is designed for maximum articulation or oscillation and reduced wear.

Weight: 10 lbs.

Capacities
6,000 lbs. Maximum Vertical Load
30,000 lbs. Maximum Gross Trailer Weight

NOTE 1: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

NOTE 2: A hardware mounting kit including bolts, nuts, and flat washers (RK-10389) is available.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH258.

Product Cross Reference Information

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<tr>
<td>PH-30</td>
<td>160 Coupling</td>
<td>R15 Ton</td>
<td>PH15</td>
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</table>

Mounting Dimensions

Replacement Parts

RK-05643

XA-T-60-0-3
PINTLE HOOKS – Swivel Mount (with Spring Shock Absorption)

PH-T-90-A

Application
A multifaceted swivel style and clamp-mount pintle hook designed for over-the-road and off-road applications where a significant amount of articulation is desired for torsional relief. The spring provides shock absorption at start up—ideal for lighter-duty (as compared to PH-T-100-A) municipality, utility, and construction applications when hauling air compressors, generators, cement mixers, etc.

The latch is a maintenance-free, stamped steel assembly with an enclosed integral spring that is protected from damage and from the environment.

Forged from a special alloy steel that is heat treated for strength, toughness, and durability.

Alloy steel mounting flanges allow for structural thicknesses from .31”.

A square spring configuration provides start up shock absorption in lighter-duty applications.

NOTE: A pair of braces (XA-100-80) is available to provide added structural strength where required. See page 80 for details.

Weight: 26 lbs.

Capacities
4,000 lbs. Maximum Vertical Load
20,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25%.

IMPORTANT: Must only be used with non-swivel mount drawbar.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH207.

Product Cross Reference Information

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IMPORTANT: Must only be used with non-swivel mount drawbar.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH207.

Product Cross Reference Information

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<tr>
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</table>

NOTE: A pair of braces (XA-100-80) is available to provide added structural strength where required. See page 80 for details.
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Swivel Mount (with Spring Shock Absorption)

**PH-T-100-A**

**Application**
A multifaceted swivel style and clamp-mount pintle hook designed for over-the-road and off-road applications where a significant amount of articulation is desired for torsional relief. The spring provides shock absorption at the coupling—ideal for heavier-duty (as compared to PH-T-90-A) municipality, utility, and construction applications.

The latch is a maintenance-free, stamped steel assembly with an enclosed integral spring that is protected from damage and from the environment. A round spring configuration provides shock absorption in heavier-duty applications.

Forged from a special alloy steel that is heat treated for strength, toughness, and durability. Alloy steel mounting flanges allow for structural thicknesses from .62".

**Weight:** 33 lbs.

**NOTE:** A pair of braces (XA-100-80) is available to provide added structural strength where required. See page 80 for details.

**Capacities**
**4,000 lbs. Maximum Vertical Load**
**20,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** For off-road applications, reduce the above capacities by 25%

**IMPORTANT:** Must only be used with non-swivel mount drawbar.

Tested in accordance with SAE J847 (Type II).

**Drawbar Eye Dimensions**
2.38” to 3” I.D. with 1.25” to 1.62” diameter section.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH210.

**Product Cross Reference Information**

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</table>
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Swivel Mount (with Spring Shock Absorption)

**PH-T-125-A**

**Application**
A versatile swivel style and front-mount pintle hook designed for over-the-road and off-road applications where a significant amount of articulation is desired for torsional relief. The spring provides shock absorption at the coupling—ideal for **heavier-duty** (as compared with PH-T-126-A) utility and construction applications.

The latch is a maintenance-free, stamped steel assembly with an enclosed, integral spring that is protected from damage and from the environment.

Forged from a special alloy steel that is heat treated for strength, toughness, and durability.

**Weight:** 42 lbs.

**Capacities**

**6,000 lbs. Maximum Vertical Load**
**30,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** For off-road applications, reduce the above capacities by 25%.

**IMPORTANT:** Must only be used with non-swivel mount drawbar.

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

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH205.

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**Product Cross Reference Information**

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**Mounting Dimensions**

**Replacement Parts**

![Replacement Parts Diagram]

**RK-93-A1**

XA-H-11S-A  XB-767

XA-T-56  XA-T-101-A

XB-T-52  XB-T-60  XA-T-9N
PINTLE HOOKS – Swivel Mount (with Spring Shock Absorption)

**PH-T-126-A**

**Application**
A versatile swivel style and front-mount pintle hook designed for over-the-road and off-road applications where a significant amount of articulation is desired for torsional relief. The spring provides shock absorption at the coupling—ideal for lighter-duty (as compared with PH-T-125-A) utility and construction applications.

Forged from a special alloy steel that is heat treated for strength, toughness, and durability.

The latch is a maintenance-free, stamped steel assembly with an enclosed, integral spring that is protected from damage and from the environment.

The fully machined, high-strength, fabricated steel housing includes a zerk fitting for easy lubrication which ensures long life.

A square spring configuration provides shock absorption in lighter-duty applications.

Weight: 37 lbs.

**Capacities**
5,800 lbs. Maximum Vertical Load
29,000 lbs. Maximum Gross Trailer Weight

**NOTE:** For off-road applications, reduce the above capacities by 25%.

**IMPORTANT:** Must only be used with non-swivel mount drawbar.

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

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH204.

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**Mounting Dimensions**

**Replacement Parts**

**Product Cross Reference Information**

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Section IV – Holland’s Complete Line of Coupling Products

Coupler – Rigid Mount (Over-the-Road)

**CP-380-A**

**Application**
A versatile rigid mount light duty (as compared to CP-400-H) coupler, designed for a variety of industrial material handling and airport ground support equipment applications. Also used for trailers and equipment in over-the-road applications. Especially useful when frequent and automatic coupling is desired, and when the weight of the drawbar makes it impractical to lift. Often used with trailers equipped with limited load-lifting capacity drop-leg jacks. The latch automatically closes upon coupling.

**Weight:** 17 lbs.

**Capacities**

5,750 lbs. Maximum Vertical Load
23,000 lbs. Maximum Gross Trailer Weight

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

**Drawbar Eye Dimensions**

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

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH223.

**Mounting Dimensions**

![Mounting Dimensions Diagram]

**Replacement Parts**

![Replacement Parts Diagram]

**Product Cross Reference Information**

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<tr>
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</tbody>
</table>
**Application**
A versatile rigid mount coupler, designed for a variety of medium duty industrial material handling and airport ground support equipment applications. Also used for trailers and equipment in over-the-road applications. Especially useful when frequent and automatic coupling is desired, and when the weight of the drawbar makes it impractical to lift. Often used with trailers equipped with limited load-lifting capacity drop-leg jacks. The latch automatically closes upon coupling.

**Capacities**
- **7,500 lbs. Maximum Vertical Load**
- **30,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

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

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH233.

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<td>RPR (ring release)</td>
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**Mounting Dimensions**

**Replacement Parts**

- XA-401-X3
- XA-402-X1
- XB-403
- XB-708
- XB-10109
- XA-400-2
- XB-382
- XB-04473
- XB-04473
- XB-382
- XB-04473

**Secondary lock for added safety.**

**Jaw is forged alloy steel and heat treated for strength, toughness, and wear resistance.**

**Body is cast alloy steel.**

**Very minimal lubrication and maintenance is required.**
**DRAWBARS** – Rigid Mount Bolt-On (Square Shank/Plate Mount)

**DB-1235-1**

**Application**

Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

Forged alloy steel and heat treated throughout for strength, durability, and toughness.

The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance and durable service.

Often used in 3.12” x 3.12” square tube.

For maximum durability and minimum wear, the drawbar eye has a 3” I.D. with a 1.63” diameter section to match a pintle horn or coupler jaw.

Weight: 42 lbs.

**Capacities**

**7,000 lbs. Maximum Vertical Load**

**35,000 lbs. Maximum Gross Trailer Weight**

**NOTE 1:** Not designed to be welded to a trailer tongue.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 80,000 lbs.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB101.

**Mounting Dimensions**

The capacities published for these drawbars are based on an over-tongue mount as shown in Figure A.

If mounted under-tongue, as in Figure B, the vertical rating may be increased by 50%. (The hinged tongue rating is not affected by over/under tongue mounting.)

**Product Cross Reference Information**

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**Section IV – Holland’s Complete Line of Coupling Products**

**DRAWBARS – Rigid Mount Bolt-On (4 Bolt Mounting Base/Plate Mount)**

**DB-040DQ1 (replaces DB-1250-15)**

**Application**

Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The bolt pattern is the same as Holland model DB-1250-15. Use 5/8” bolts.

The bolt head area is strengthened for more durability than similar products.

For maximum durability and minimum wear, the drawbar eye has a 2.5” I.D. with a 1.25” x 1.5” diameter section to match a pintle horn or coupler jaw.

One piece, forged alloy steel drawbar is heat treated throughout for greater strength, durability, and toughness.

**Weight:** 14 lbs.

**Capacities**

8,000 lbs. Maximum Vertical Load

40,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** Not designed to be welded to a trailer tongue.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, the maximum vertical load cannot exceed 500 lbs, and the maximum gross trailer weight is 60,000 lbs.

Tested in accordance with SAE J847 (Type II).

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB126.

**Product Cross Reference Information**

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<td>DB-040DQ1</td>
<td>–</td>
<td>R49A</td>
<td>BDB125015</td>
</tr>
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</table>
**Application**

Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance and durable service.

For maximum durability and minimum wear, the drawbar eye has a 2.38” I.D. with a 1.62” diameter section to match a pintle horn or coupler jaw.

**Weight:** 41 lbs.

** Capacities**

8,000 lbs. **Maximum Vertical Load**
40,000 lbs. **Maximum Gross Trailer Weight**

**NOTE 1:** Not designed to be welded to a trailer tongue.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 90,000 lbs.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB101.

**Product Cross Reference Information**

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</table>
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Rigid Mount Bolt-On (Shank Mount)

**DB-1249-2H**

**Application**
A versatile, compact bolt-on (shank mounted) drawbar used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

- The shank mount is easy to replace and offers compact installation.
- Drawbar includes a washer, a nut, and a cotter pin.
- Forged alloy steel and heat treated throughout for long life and weldability.
- The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance and durable service.

**Capacities**

9,000 lbs. Maximum Vertical Load  
45,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** This drawbar cannot be used as a swivel drawbar because clamping force provided by the large shank and nut is needed to develop rated capacities.

**NOTE 2:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 85,000 lbs.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB103.

**Mounting Dimensions**

- The drawbar eye is 3” I.D. with a 1.63” diameter cross section.

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

**Replacement Parts**

- XB-T-316-A
- XB-T-318
- XB-121
- XA-1249-2H-10

**Product Cross Reference Information**

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Weight: 14 lbs.
DRAWBARS – Rigid Mount Bolt-On (Shank Mount)

DB-1249-49

Application
A very versatile bolt-on (shank mounted) drawbar used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The shank mount is easy to replace and offers compact installation.

Drawbar includes a washer, a nut, and a cotter pin.

2” OD shank.

Forced alloy steel and heat treated throughout for strength and toughness.

The drawbar eye is 3” I.D. with a 1.63” diameter cross section.

Weight: 24 lbs.

Capacities
9,000 lbs. Maximum Vertical Load
45,000 lbs. Maximum Gross Trailer Weight

NOTE 1: This drawbar cannot be used as a swivel drawbar unless it is installed in a Holland approved structure (refer to DB-610-30 on page 40).

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 85,000 lbs.

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB106.

Mounting Dimensions

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

Replacement Parts

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<th>XB-121</th>
<th>XB-T-316-A</th>
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Product Cross Reference Information

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</table>
**Application**

Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The shank mount is easy to replace and offers compact installation.

Drawbar includes a washer, nut, cotter pin, and the assembly includes a zerk fitting for easy lubrication.

Steel fabricated housing. Surfaces are machined to tight tolerances to provide durability and long life.

Weight: 36 lbs.

**Capacities**

9,000 lbs. Maximum Vertical Load
45,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** This drawbar must be used only in conjunction with a rigid mount coupling device.

**NOTE 2:** For off-road applications, reduce the above capacities by 25%.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 85,000 lbs.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB109.

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**Product Cross Reference Information**

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</table>
**DRAWBARS – Swivel Mount Weld-On**

**DB-045BW1**

**Application**

Used on straight tongue trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

| The shank mount is easy to replace and offers compact installation. |
| Forged alloy steel and heat treated throughout for toughness, strength, and durable operation. |
| Drawbar includes a washer, nut, cotter pin, and the assembly includes a zerk fitting for easy lubrication. |
| The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance and durable service. |

**Capacities**

9,000 lbs. **Maximum Vertical Load**  
45,000 lbs. **Maximum Gross Trailer Weight**

**NOTE 1:** This drawbar must be used only in conjunction with a rigid mount coupling device.

**NOTE 2:** For off-road applications, reduce the above capacities by 25%.

**IMPORTANT:** When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 85,000 lbs.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB131-01.

**Product Cross Reference Information**

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</table>

**Mounting Dimensions**

*NOTE:* 24 linear inches of .38" fillet weld are required to develop hitch strength.

**Replacement Parts**

- XB-121
- XB-T-318-A
- XA-610-23
- XA-05833-A

**Steel fabricated housing.** Surfaces are machined to tight tolerances to provide durability and long life.

**Weight:** 38 lbs.
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Rigid Mount Bolt-On (4 Bolt Mounting Base/Plate Mount)

DB-060FQ1 (replaces DB-1385)

Application

Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The bolt pattern is the same as the previous DB-1385 model. Use 3/4” bolts.

Weight: 19 lbs.

Capacities

15,000 lbs. Maximum Vertical Load
60,000 lbs. Maximum Gross Trailer Weight

NOTE 1: Not designed to be welded to the trailer tongue.

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 90,000 lbs.

Tested in accordance with SAE J847 (Type II).

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB125.

Product Cross Reference Information

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New!

Mounting Dimensions

The drawbar eye is 3.0” I.D. with a 1.63” diameter cross section. It is induction hardened in the pintle hook contact area for increased strength and wear resistance.

One piece forged alloy steel drawbar is heat treated throughout for greater strength, durability, and toughness.
**DRAWBARS – Swivel Mount Weld-On (with Rubber Cushion)**

**DB-1407-S**

**Application**

Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye has a 2.38” I.D. with a 1.63” x 1.56” diameter cross section and is induction hardened in the pintle hook contact area for increased strength and durable operation.

Forged alloy steel drawbar is heat treated throughout for strength, toughness, and durable service.

**Capacities**

500 lbs. Maximum Vertical Load
40,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** This drawbar must be used only in conjunction with a rigid mount coupling device.

**NOTE 2:** For off-road applications, reduce the above capacities by 25%.

Tested in accordance with SAE J847 (Type I).

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB118.

**Mounting Dimensions**

Minimum of 34 linear inches required to develop rated capacity

**Replacement Parts**

- XB-05789
- XA-05798
- XA-05799
- XB-05813
- XA-05833-S

**Product Cross Reference Information**

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Weight: 45 lbs.
Section IV – Holland’s Complete Line of Coupling Products continued

DRAWBARS – Swivel Mount Weld-On (with Rubber Cushion)

**DB-1307-S**

**Application**

Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye has a 3” I.D. with a 1.63” diameter cross section and is induction hardened in the pintle hook contact area for increased strength and durable operation.

Weight: 47 lbs.

**Capacities**

500 lbs. Maximum Vertical Load

40,000 lbs. Maximum Gross Trailer Weight

**NOTE 1:** This drawbar must be used only in conjunction with a rigid mount coupling device.

**NOTE 2:** For off-road applications, reduce the above capacities by 25%.

Tested in accordance with SAE J847 (Type I).

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB121.

**Mounting Dimensions**

![Mounting Dimensions Diagram]

**Replacement Parts**

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**Product Cross Reference Information**

- Holland: DB-1307-S
- Premier: 307S & 536A
- Wallace: –
- Buyers: –
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Swivel Mount Weld-On (with Rubber Cushion)

DB-1407-SE

Application
Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye has a 2.38˝ I.D. with a 1.63˝ x 1.56˝ diameter cross section and is induction hardened in the pintle hook contact area for increased strength and durable operation.

Includes washer, nut, and retaining ring.

Forged alloy steel drawbar is heat treated throughout for strength, toughness, and durable service.

Weight: 50 lbs.

Capacities

500 lbs. Maximum Vertical Load
34,000 lbs. Maximum Gross Trailer Weight

NOTE 1: This drawbar must be used only in conjunction with a rigid mount coupling device.

NOTE 2: For off-road applications, reduce the above capacities by 25%.

Tested in accordance with SAE J847 (Type I).

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB119.

Mounting Dimensions

Minimum of 34 linear inches required to develop rated capacity

Replacement Parts

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XL-PH329-02 Rev A 45
DRAWBARS – Hinged Tongue

Following is a list of other drawbars that are suitable for medium duty hinged tongue applications:

- DB-1250-3 (see “Light Duty”): 22
- DB-040DQ1 (see “Medium Duty”): 36
- DB-1228-1 (see “Light Duty”): 23
**Section IV – Holland’s Complete Line of Coupling Products**

**Heavy Duty Applications**

(49,000 lbs. – 100,000 lbs. GTW)

- These products are used both on-road (maintained concrete or asphalt) and off-road (gravel, crushed rock, hard-packed dirt, or unimproved/unmaintained roads)
- Used to tow trailers with two or more axles
- Used with a pintle hook (or coupler) and drawbar (one of which will be a swivel design)
- Trailer is full loaded 70% of the time
- No mileage requirement

**Suggested Products:**

**Pintle Hooks**

PH-300 Series (72,000 lbs. GTW) ......................................48
PH-300-R Series (72,000 lbs. GTW) ...................................49
PH-210 Series (90,000 lbs. GTW) ......................................50
PH-310 Series (100,000 lbs. GTW) ....................................51
PH-410 Series (100,000 lbs. GTW) ....................................52
PH-411 Series (100,000 lbs. GTW) ....................................53
PH-760 (49,000 lbs. GTW).................................................54
PH-775SL11 (100,000 lbs. GTW).......................................55
PH-990ST71 (100,000 lbs. GTW) ........................................56

**Couplers**

CP-360 (52,000 lbs. GTW) .................................................57
CP-740 (100,000 lbs. GTW) ..............................................58

**Ball Hitch**

BH-50 (80,000 lbs. GTW) ..................................................59

**Drawbars (rigid tongues)**

DB-1407 Series (85,000 lbs. GTW) ....................................60
DB-1307-S-1 (85,000 lbs. GTW) ........................................61
DB-1400 (90,000 lbs. GTW) ..............................................62
DB-1400AC Series (90,000 lbs. GTW)...............................63
DB-1422 (90,000 lbs. GTW) ...............................................64
DB-100FQ1 (100,000 lbs. GTW) ........................................65

**Drawbars (hinged tongues)**

DB-1238 (70,000 lbs. GTW) .............................................24
DB-1235-1 (80,000 lbs. GTW) ..........................................35
DB-1249-2H (85,000 lbs. GTW) ........................................38
DB-1249-49 (85,000 lbs. GTW) ........................................39
DB-610-30 (85,000 lbs. GTW) ..........................................40
DB-045BW1 (85,000 lbs. GTW) ........................................41
DB-1245-1 (90,000 lbs. GTW) ...........................................37
DB-060FQ1 (90,000 lbs. GTW) ..........................................42
DB-1407 Series (120,000 lbs. GTW) ..................................60
DB-1307-S-1 (120,000 lbs. GTW) ......................................61
DB-1400 (120,000 lbs. GTW) ............................................62
DB-1400AC Series (120,000 lbs. GTW).............................63
DB-1422 (120,000 lbs. GTW) ............................................64
DB-100FQ1 (125,000 lbs. GTW) ........................................65
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

PH-300 Series

Application
A rigid mount pintle hook designed for trailers, semitrailers, and doubles operations. Used for off- and over-the-road applications, with an air cushioned snubber, designed to minimize the space between the pintle hook and the drawbar and helps provide some shock absorption. This pintle hook is recommended for severe duty applications.

Automatic secondary lock for improved safety.
Unique one-handed latch operation. Also available with reversed latch handle, PH-300-R. (The forward handle model is shown.)
Body is wear hardening austenitic manganese material for wear resistance.
Threaded plunger is adjustable.

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

Also available without air chamber and mounting bracket.

Air chambers are available with a variety of rod lengths to accommodate your specific mounting structures, see page 83.

Capacities
18,000 lbs. Maximum Vertical Load
72,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH243.

Product Cross Reference Information

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</table>

Weight: 42 lbs.

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

The PH-300 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Replacement Parts

Search for related parts or contact Holland for further information.

Mounting Dimensions

Air chambers are available with a variety of rod lengths to accommodate specific mounting structures, see page 83.

Capacities
18,000 lbs. Maximum Vertical Load
72,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH243.

Product Cross Reference Information

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</table>
Section IV – Holland’s Complete Line of Coupling Products continued

PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

PH-300-R Series

Application
A rigid mount pintle hook designed for trailers, semitrailers, and doubles operations. Used for off- and over-the-road applications, with an air cushioned snubber, designed to minimize the space between the pintle hook and the drawbar and helps provide some shock absorption. This pintle hook is recommended for severe duty applications.

- Automatic secondary lock for improved safety.
- Unique one-handed latch operation. Also available with reversed latch handle, PH-300.
- Body is wear hardening austenitic manganese material for wear resistance.
- Threaded plunger is adjustable.
- Plunger/snubber force is developed by the vehicle’s air system to reduce wear and to provide shock absorption.
- Also available without air chamber and mounting bracket.
- Air chambers are available with a variety of rod lengths to accommodate a variety of mounting structures, see page 83.

Weight: 42 lbs.

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

The PH-300-R can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities
18,000 lbs. Maximum Vertical Load
72,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.65” diameter section.

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH248.

Product Cross Reference Information

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Mounting Dimensions

Weight: 42 lbs.

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

The PH-300-R can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities
18,000 lbs. Maximum Vertical Load
72,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.65” diameter section.

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH248.

Product Cross Reference Information

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Mounting Dimensions

Weight: 42 lbs.

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

The PH-300-R can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities
18,000 lbs. Maximum Vertical Load
72,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Drawbar Eye Dimensions
2.38” to 3” I.D. with 1.25” to 1.65” diameter section.
Section IV – Holland’s Complete Line of Coupling Products continued

PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

PH-210 Series (replaces PH-200 Series)

Application

A rigid mount pintle hook designed for trailers, semitrailers, and doubles and triples operations. Used for off- and over-the-road applications, with an air cushioned snubber, 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.

Also available without an air chamber and mounting bracket, and with or without plunger.

Air chambers are available with a variety of rod lengths to accommodate a variety of mounting structures, see page 83.

Threaded plunger is adjustable.

Cast alloy steel body is heat treated for increased strength, durability, and wear resistance.

Weight: 38 lbs.

The complete assembly (PH-210RA11) includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hook without an air chamber, bracket or plunger, order PH-210RN11. For pintle hook with plunger only, order PH-210RM11. For additional model numbers with various air chamber rod lengths, see page 83.

The PH-210 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities

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

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions

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

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH242.

Product Cross Reference Information

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Mounting Dimensions

Replacement Parts
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

PH-310 Series (A “standard alloy steel” version of PH-300 Series)

Application

A rigid mount pintle hook designed for trailers, semitrailers, and doubles and triples operations. Used for off- and over-the-road applications, with an air cushioned snubber, 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.

Also available without an air chamber and mounting bracket, and with or without plunger.

Air chambers are available with a variety of rod lengths to accommodate a variety of mounting structures, see page 83.

Threaded plunger is adjustable.

Automatic secondary lock for improved safety.

New! Unique one-handed latch operation.

Cast alloy steel body is heat treated for increased strength, durability, and wear resistance.

Weight: 39 lbs.

The complete assembly (PH-310RA11) includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hook without an air chamber, bracket or plunger, order PH-310RN11. For pintle hook with plunger only, order PH-310RM11. For additional model numbers with various air chamber rod lengths, see page 83. The PH-310 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities

20,000 lbs. Maximum Vertical Load
100,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions

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

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH341.

Product Cross Reference Information

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Mounting Dimensions

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<th>3/8” NPT PLUG</th>
<th>3/8” TO 1/4” NPT REDUCER</th>
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<td>7.06”</td>
<td>6.11”</td>
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<tr>
<td>5.97”</td>
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Replacement Parts

RK-10545 LATCH KIT
XB-10537
XB-10545 (SUB-ASSY.)
XB-03104
XA-10572
XA-04156
XE-01544-1
XB-T-199
Included with XB-165945
Included with XB-165945
XA-02608 Cylinder and Bracket Sub-Assembly
Section IV – Holland’s Complete Line of Coupling Products continued

PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

PH-410 Series (replaces PH-400 Series)

Application

A rigid mount pintle hook designed for trailers, semitrailers, and doubles and triples operations. Used for off- and over-the-road applications, with an air cushioned snubber, 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.
- Also available without an air chamber and mounting bracket, and with or without plunger.
- Air chambers are available with a variety of rod lengths to accommodate a variety of mounting structures, see page 83.
- Cast alloy steel body is heat treated for increased strength, durability, and wear resistance.
- Threaded plunger is adjustable.

Weight: 42 lbs.

The complete assembly (PH-410RA11) includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hook without an air chamber, bracket or plunger, order PH-410RN11. For pintle hook with plunger only, order PH-410RM11. For additional model numbers with various air chamber rod lengths, see page 83.

The PH-410 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

Capacities

20,000 lbs. Maximum Vertical Load
100,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions

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

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH342.

Product Cross Reference Information

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Mounting Dimensions

![Mounting Dimensions Diagram]

Replacement Parts

- RK-10545 LATCH KIT
- XB-10537
- XB-10545 (SUB-ASSY.)
- XB-03104
- XA-1057X
- XA-04156
- XE-01544-1
- XB-T-199
- Included with XB-165945
- XA-02608 Cylinder and Bracket Sub-Assembly
PINTLE HOOKS – Rigid Mount (with Air Cushioned Snubber)

**PH-411 Series** (replaces PH-400-H Series)

### Application
A rigid mount pintle hook designed for trailers, semitrailers, and doubles and triples operations. Used for off- and over-the-road applications, with an air cushioned snubber, 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 shock absorption.

Also available without an air chamber and mounting bracket, and with or without plunger.

Air chambers are available with a variety of rod lengths to accommodate a variety of mounting structures, see page 83.

**Weight:** 42 lbs.

The complete assembly (PH-411RA11) includes a pintle hook, plunger, air chamber, and mounting bracket. For pintle hook without an air chamber, bracket or plunger, order PH-411RN11. For pintle hook with plunger only, order PH-410RM11. For additional model numbers with various air chamber rod lengths, see page 83.

The PH-411 can be operated with or without the air chamber. For easier coupling, drawbar guides are available, see page 80.

### Capacities

- **20,000 lbs. Maximum Vertical Load**
- **100,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

Tested in accordance with SAE J847 (Type II).

### Drawbar Eye Dimensions

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

### Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH343.

### Product Cross Reference Information

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<td>2400H</td>
<td>Safe-Tite 100-4H</td>
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</tr>
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</table>

### Mounting Dimensions

- Automatic secondary lock for improved safety.
- New! Unique one-handed latch operation.
- Cast alloy steel body is heat treated for increased strength, durability, and wear resistance.
- Threaded plunger is adjustable.

### Replacement Parts

- RK-10545 LATCH KIT
- XB-10517
- XB-10545 (SUB-ASSY.)
- XB-03104
- XA-1057X
- XA-04156
- XE-01544-1
- XB-T-199
- Included with XB-165945
- XB-165945
- Included with XB-165945
- XA-02608 Cylinder and Bracket Sub-Assembly
Section IV – Holland’s Complete Line of Coupling Products

PINTLE HOOKS – Swivel Mount

PH-760

Application
Heavy duty construction, utility (heavy haul) primarily off-road applications provides torsional relief where a significant amount of articulation is required in a swivel-type clamp mount pintle hook.

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

Mounting flanges allow for structural thicknesses up to .75”.

The forged alloy steel body, flanges, and the cast steel latch are heat treated for strength, toughness, and durable service.

For added safety, a chain and cotter pin serve as a secondary lock.

Surfaces are machined to tight tolerances to ensure durability.

The well-rounded body is designed for maximum articulation.

Weight: 36 lbs.

Capacities
9,800 lbs. Maximum Vertical Load
49,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a non-swivel mount drawbar.

Tested in accordance with SAE J847 (Type II).

Drawbar Eye Dimensions
3” I.D. with 1.25” to 1.62” diameter section.

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH215.

Product Cross Reference Information

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<tr>
<td>PH-760</td>
<td>235NT Coupling</td>
<td>B30</td>
<td>BP760</td>
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</table>

Mounting Dimensions

Replacement Parts
PINTLE HOOKS – Swivel Mount

PH-775SL11 & PH-775SL21 NoLube (replaces PH-775-01552)

Application

**Extreme** duty construction, logging, milk hauling primarily off-road applications provides torsional relief where a significant amount of articulation is required in a swivel-type mount pintle hook. Exclusive “NoLube” design, no front lubrication required.

- A one piece housing keeps contaminants from entering the pintle hook assembly.
- New! One-handed operation special cast alloy steel latch is heat treated for extreme strength and durability. An automatic secondary lock – no chains or pins.
- Body and housing are forged from special alloy steel and heat treated for high strength, toughness, and wear resistance for extreme duty applications.
- Surfaces are machined to tight tolerances to ensure durability.

Mounting Dimensions

**Weight**: 57 lbs.

**Capacities**

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<th>Capacity</th>
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<tr>
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</tr>
<tr>
<td>Maximum Gross Trailer Weight</td>
<td>100,000 lbs.</td>
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</table>

**NOTE**: For off-road applications, reduce the above capacities by 25% and use only with a non-swivel mount drawbar.

**Drawbar Eye Dimensions**

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

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH334.

Also available – PH-775SL21 with additional tertiary lock.

Product Cross Reference Information

<table>
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<th>Holland</th>
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<tbody>
<tr>
<td>PH-775SL11</td>
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<td>B50</td>
<td>–</td>
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<tr>
<td>PH-775SL21</td>
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</table>

Replacement Parts

**RK-10545-1 LATCH KIT**

- XB-10545-1 (SUB-ASSY.)
- XB-10537 (SUB-ASSY.)
- XB-10569
- XB-10539
- XB-10568
- XB-10567
- XB-03104
- XB-781-1
- XB-780-1
- XB-10538-1
- XB-10517-1
- XB-10546 (SUB-ASSY.)

Significantly tougher than the competition. See page 14 for details.
PINTLE HOOKS – Swivel Mount

PH-990ST71 (replaces PH-T-990)

Application
A special swivel-mounted, frame-mount pintle hook with a “fish mouth” type head and rubber cushion for shock absorption at the coupling. Swivel action provides torsional relief. Designed for extreme duty, trailers, semitrailers, and doubles operation applications. Used for off- and over-the-road applications, where a large amount of articulation is required.

The cast alloy steel body is heat treated for toughness and durable service. Easy to maintain and requires no lubrication.

Rubber cushion provides shock absorption.

Surfaces are machined to tight tolerances to minimize chucking.

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

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

Weight: 160 lbs.

Capacities
3,000 lbs. Maximum Vertical Load
100,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25%. This pintle hook must be used only with a non-swivel type drawbar.

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH219.

Mounting Dimensions

Replacement Parts

Product Cross Reference Information

<table>
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<tr>
<td>PH-990ST71</td>
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</tbody>
</table>
Section IV – Holland’s Complete Line of Coupling Products

Coupler – Rigid Mount (Over-the-Road)  CP-360

Application
A one-of-a-kind, versatile rigid mount coupler, designed for a variety of industrial material handling and airport ground support equipment applications. Also used for trailers and equipment in over-the-road and in heavy-duty (off-road, logging, etc.) applications. Especially useful when frequent and automatic coupling is desired, and when the weight of the drawbar makes it impractical to lift. Often used with trailers equipped with limited load-lifting capacity drop-leg jacks. The latch automatically closes upon coupling.

Capacities
3,000 lbs. Maximum Vertical Load
52,000 lbs. Maximum Gross Trailer Weight

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH231.

Product Cross Reference Information

<table>
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</table>

Mounting Dimensions

Replacement Parts
Section IV – Holland’s Complete Line of Coupling Products continued

Coupler – Rigid Mount (Over-the-Road)

**CP-740**

**Application**
A very strong, specialized rigid mount coupler, designed for a variety of industrial material handling and airport ground support equipment applications. Also used for trailers and equipment in over-the-road, off-road (i.e. logging), extreme duty, and military applications. Especially useful when frequent and automatic coupling is desired. The latch automatically closes upon coupling.

**Capacities**

| 20,000 lbs. Maximum Vertical Load | 100,000 lbs. Maximum Gross Trailer Weight |

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount drawbar.

**Drawbar Eye Dimensions**
Use only with Holland model DB-1249-49 drawbar (on a hinged tongue).

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH268.

**Mounting Dimensions**

**Replacement Parts**

**Product Cross Reference Information**

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</table>
**Section IV – Holland’s Complete Line of Coupling Products**

**Ball Hitch – Rigid Mount (Over-the-Road)**

**BH-50**

**Application**

A versatile ball hitch configuration is ideal for extreme-duty on- and over-the-road applications where extremely high articulation (up to 30°) in all directions is required. Especially where a hinged-tongue drawbar is used. Ideal in applications where the vehicle and trailer are frequently coupled: logging, gravel, liquid bulk, and grain trailers. The BH-50 significantly reduces chucking.

Top mounted adjustment ratchet provides easier coupling, uncoupling, and slack adjustment.

The release includes a compression spring to aid in uncoupling.

Fabricated alloy steel bolt-on frame for ease of installation and strength.

Jaws are alloy steel, machined, and heat treated for strength and durable service.

The 5˝ diameter ball is steel alloy, machined, and heat treated for superior strength, toughness, and durability.

Weight: 135 lbs.

**Capacities**

8,000 lbs. Maximum Vertical Load
80,000 lbs. Maximum Gross Trailer Weight

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH254.

**Mounting Dimensions**

![Mounting Dimensions Diagram](image)

**Replacement Parts**

<table>
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**Product Cross Reference Information**

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<tr>
<td>BH-50</td>
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</table>

**NOTE:** A minimum of 35 linear inches of weld of the size noted is required to develop sufficient hitch strength.
Section IV – Holland’s Complete Line of Coupling Products continued

DRAWBARS – Rigid Mount Bolt-On (Shank Mount)

DB-1407 Series: DB-1407-L-1, DB-1407-S-1, DB-1407-SE-1

Application
A versatile bolt-on (shank mounted) drawbar used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

This forged alloy steel drawbar is heat treated throughout for strength, toughness, and durable operation.

The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance.

Drawbar includes a washer, a nut, and a retaining ring.

The shank mount is easy to replace and offers compact installation.

The drawbar eye is 2.38” I.D. with a 1.63” x 1.56” diameter cross section that matches the profile of the pintle horn or coupler jaw for maximum durability.

DB-1407-L-1 shown.

Weight:
DB-1407-L-1: 25 lbs.
DB-1407-S-1: 24 lbs.
DB-1407-SE-1: 26 lbs.

Capacities
16,000 lbs. Maximum Vertical Load
85,000 lbs. Maximum Gross Trailer Weight

NOTE 1: This drawbar cannot be used as a swivel drawbar because clamping force provided by the large shank and nut is needed to develop rated capacities.

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 120,000 lbs.

Tested in accordance with SAE J847 (Type I).

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB117.

Product Cross Reference Information

<table>
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<td>DB-1407-S-1</td>
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<tr>
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<td>207SE</td>
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* DB-1407-SE is also interchangeable with a Silver Eagle model.

Mounting Dimensions

<table>
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<tr>
<th>MODEL NO.</th>
<th>DRAWBAR NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>XA-05833-L</td>
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<td>10.1”</td>
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<tr>
<td>DB-1407-S-1</td>
<td>XA-05833-S</td>
<td>11.62”</td>
<td>9.6”</td>
<td>9.5”</td>
<td>.38” x 45°</td>
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<tr>
<td>DB-1407-SE-1</td>
<td>XA-05833-SE</td>
<td>11.13”</td>
<td>11.1”</td>
<td>11.0”</td>
<td>.38” x 45°</td>
</tr>
</tbody>
</table>

Replacement Parts

SEE CHART ABOVE

DB-1407-SE is also interchangeable with a Silver Eagle model.
Section IV – Holland’s Complete Line of Coupling Products  

DRAWBARS – Rigid Mount Bolt-On (Shank Mount)  

DB-1307-S-1  

**Application**  
A versatile bolt-on (shank mounted) drawbar used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities. 

This forged alloy steel drawbar is heat treated throughout for strength, toughness, and durable operation. 

The shank mount is easy to replace and offers compact installation. 

The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance. 

Drawbar includes a washer, a nut, and a retaining ring. 

2” OD machined shank. 

No chamfering is required in the mounting structure for this drawbar. 

Tested in accordance with SAE J847 (Type I). 

**Capacities**  
16,000 lbs. Maximum Vertical Load  
85,000 lbs. Maximum Gross Trailer Weight  

NOTE 1: This drawbar cannot be used as a swivel drawbar because clamping force is needed to develop rated capacities. 

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device. 

IMPORTANT: When used with hinged tongue trailers where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 120,000 lbs. 

Weight: 26 lbs. 

**Product Information**  
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog. 

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB122. 

**Mounting Dimensions**  

<table>
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<tr>
<td>B Hole size</td>
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**Replacement Parts**  

- XA-07465-S  
- XB-T-318  
- XB-05788  
- XB-05789  

**Product Cross Reference Information**  

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<td>DB-1307-S-1</td>
<td>3075</td>
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**Application**
Used on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

The drawbar eye is 2.38” I.D. with a 1.63” diameter cross section that matches the profile of the pintle horn or coupler jaw for maximum durability.

Used with 3” channel or square tubing.

The drawbar eye is induction hardened in the pintle hook contact area for increased wear resistance.

Weight: 14 lbs.

**Capacities**

**18,000 lbs. Maximum Vertical Load**

**90,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 120,000 lbs.

Tested in accordance with SAE J847 (Type II).

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB113.

**Product Cross Reference Information**

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<tr>
<td>DB-1400</td>
<td>20 Weld-On</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
**Application**

Rigid mount, air-cushioned drawbar designed for trailers, semitrailers, doubles, and triples operations. Used for on- and off-road towing applications within stated capacities, on vehicles with air systems where a snubber cushion force is needed to remove shock between the pintle hook and drawbar.

The drawbar eye is 2.38” I.D. with a 1.63” diameter cross section that matches the profile of the pintle horn or coupler jaw for maximum durability.

Used with 3” channel or square tubing.

Designed for 20° minimum and 60° maximum angle.

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

Weight: 14 lbs.

**Capacities**

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

**NOTE:** For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

**IMPORTANT:** When used with hinged tongue trailers where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 120,000 lbs.

Tested in accordance with SAE J847 (Type II).

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB114.

**Product Cross Reference Information**

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<td>DB-1400AC-2</td>
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<td>DB-1400AC-4</td>
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</table>

(Air cylinder is NOT included - order separately)

**Mounting Dimensions**

A = Distance required to mount air cylinder to channel C
B = Rod length

Drawbar includes a plunger and turnbuckle.
Section IV – Holland’s Complete Line of Coupling Products continued

DRAWBARS – Rigid Mount Weld-On

DB-1422

Application

This drawbar is used—within the stated capacities—on trailers, semitrailers (including doubles), and equipment designed for on- and off-road towing applications that utilize an “A” frame type of tongue.

The drawbar eye is 2.38” I.D. with a 1.63”x1.69” diameter cross section that matches the profile of the pintle horn or coupler jaw for maximum durability.

Used with 3” channel or rectangular tube mounting configuration.

Weight: 11 lbs.

Capacities

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

NOTE: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 120,000 lbs.

Tested in accordance with SAE J847 (Type II).

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB116.

Product Cross Reference Information

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<td>22 Weld-On</td>
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* 30° “V”
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Rigid Mount Bolt-On (4 Bolt Mounting Base/Plate Mount)

DB-100FQ1

Application

This unique heavy duty drawbar is used on trailers, semi trailers (including doubles), and equipment designed for on- and off-road towing applications within the stated capacities.

Capacities

20,000 lbs. Maximum Vertical Load
100,000 lbs. Maximum Gross Trailer Weight

NOTE 1: Not designed to be welded to a trailer tongue.

NOTE 2: For off-road applications, reduce the above capacities by 25% and use with a swivel-mount coupling device.

IMPORTANT: When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 125,000 lbs.

Tested in accordance with SAE J487 (Type II).

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB125.

Mounting Dimensions

Product Cross Reference Information

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<tr>
<td>DB-100FQ1</td>
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</table>
DRAWBARS – Hinged Tongue

Following is a list of other drawbars that are suitable for heavy duty hinged tongue applications:

DB-1238 (see “Light Duty”) .................................................. 25
DB-1235-1 (see “Medium Duty”) ......................................... 37
DB-1249-2H (see “Medium Duty”) ........................................ 41
DB-1249-49 (see “Medium Duty”) ......................................... 42
DB-610-30 (see “Medium Duty”) .......................................... 40
DB-045BW1 (see “Medium Duty”) ........................................ 41
DB-1245-1 (see “Medium Duty”) .......................................... 37
DB-060FQ1 (see “Medium Duty”) ......................................... 42
DB-1407 Series (see “Heavy Duty”) ................................... 60
DB-1307-S-1 (see “Heavy Duty”) ......................................... 61
DB-1400 (see “Heavy Duty”) ............................................... 62
DB-1400AC Series (see “Heavy Duty”) .............................. 63
DB-1422 (see “Heavy Duty”) ............................................... 64
DB-100FQ1 (see “Heavy Duty”) .......................................... 65
Doubles/Triples Duty Applications
(90,000 lbs. – 100,000 lbs. GTW)

- These products are 100% on-road (maintained concrete or asphalt)
- Used to tow two or three trailers each with two or more axles
- Used with a pintle hook and drawbar
- Trailers are fully loaded 80% of the time
- Usually used in long-haul applications
- Used to connect the second and third trailers to the Class 8 tractor

Suggested Products:

Pintle Hooks
PH-300 Series (72,000 lbs. GTW) ......................................48
PH-300-R Series (72,000 lbs. GTW) ..................................49
PH-210 Series (90,000 lbs. GTW) .....................................50
PH-310 Series (100,000 lbs. GTW) ..................................51
PH-410 Series (100,000 lbs. GTW) ..................................52
PH-411 Series (100,000 lbs. GTW) ..................................53

Drawbars (rigid tongue)
DB-1400 (90,000 lbs. GTW) .............................................62
DB-1400AC Series (90,000 lbs. GTW) ...............................63
DB-1422 (90,000 lbs. GTW) .............................................64

Drawbars (hinged tongues)
DB-610-30 (85,000 lbs. GTW) ...........................................40
DB-045BW1 (85,000 lbs. GTW) .........................................41
DB-1245-1 (90,000 lbs. GTW) ..........................................37
DB-1407 Series (120,000 lbs. GTW) ...............................60
DB-1307-S-1 (120,000 lbs. GTW) ..................................61
DB-1400 (120,000 lbs. GTW) ............................................62
DB-1400AC Series (120,000 lbs. GTW) .............................63
DB-1422 (120,000 lbs. GTW) ............................................64
DB-100FQ1 (125,000 lbs. GTW) ......................................65
Special Duty/Industrial/Airport Ground Support Equipment Applications

- These products are 100% off-road (maintained concrete, asphalt, gravel, crushed rock) or used in an industrial/manufacturing environment (maintained concrete, asphalt)
- Used to tow trailers with two or more axles
- Used with an E-Hitch, pintle hook or coupler and drawbar
- Trailer is fully loaded 70% of the time
- No mileage requirement

**Suggested Products:**

**Couplers (non highway)**
- CP-400-5A (14,000 lbs. GTW) ............................................69
- XA-T-150AF (15,000 lbs. GTW) ...........................................70
- CP-380 (23,000 lbs. GTW) ................................................71
- CP-400-CA (30,000 lbs. GTW) ...........................................72
- EH-20 RP Series (20,000 lbs. GTW) .........................73-74
- EH-40 RP Series (40,000 lbs. GTW) .........................73-74
- EH-60 RP Series (60,000 lbs GTW) .........................73-74

**Drawbars**
- DB-010EJI (10,000 lbs. GTW) ...........................................75
- DB-020FKI (20,000 lbs. GTW) ...........................................75
- DB-1228-1 (20,000 lbs. GTW) ...........................................23
- DB-1249-2H (45,000 lbs. GTW) ...........................................38
- DB-1250-3 (15,000 lbs. GTW) ...........................................22
- DB-040DQ1 (40,000 lbs. GTW) ...........................................36
- DB-060FQ1 (60,000 lbs. GTW) ...........................................42

*For other suitable drawbars, see page 76.*

**Tow Hooks**
- TH-1257-AR or -AL (10,000 lbs. Max. drawbar pull) .......77
- TH-1255-R or -L (15,000 lbs. Max. drawbar pull) .........77
- TH-1276-A (14,000 lbs. Max. drawbar pull) ...............77
- TH-1274-R or -L (17,000 lbs. Max. drawbar pull) .........77
- TH-10050-1B and TH-10050-2B  (34,000 lbs./45,000 lbs. Max. drawbar pull) ..................78
- TH-10050-3B & TH-10050-4B  (45,000 lbs./34,000 lbs. Max. drawbar pull) ..................78

**Tow Shackle**
- TH-0681 (18,000 lbs. Max. drawbar pull) .....................79

**Coupling Products Accessories**
- Drawbar Guides (XA-02556 & XA-02555) .......................80
- Pintle Hook Braces (XA-100-80) .................................80
- Drawbar Hinge and Frame Brackets ...........................81
- Plunger Adjustment Gage (TF-03147 & TF-03147-10) ......81
- Pintle Mounts (PM-204A, PM-207A, PM-252A) .............82
- Pintle Hook Latch and Flange Repair Kits ...................83
- TF-675 and TF-675-1 Dolly Master™ ............................84
Section IV – Holland’s Complete Line of Coupling Products

Coupler – Rigid Mount (Industrial/Airport Ground Support Equipment)

**CP-400-5A**

**Application**
A versatile rigid mount coupler that utilizes a cable pull release for easy uncoupling in industrial material handling and airport ground support applications. Useful in instances where coupling is frequent, and easy, quick coupling release is desired. The latch automatically closes upon coupling.

Lubrication and maintenance are minimal. Roller for cable release system.

The cable pull release mechanism for easy uncoupling.

Body is cast alloy steel and heat treated for strong, durable service.

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

**Weight:** 12 lbs.

**Capacities**

3,500 lbs. Maximum Vertical Load
14,000 lbs. Maximum Gross Trailer Weight

**NOTE:** There is no secondary locking mechanism. This coupler is not designed for over-the-road applications.

**Drawbar Eye Dimensions**

2” to 2.5” I.D. with 1.25” to 1.50” diameter section.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH224.

**Mounting Dimensions**

**Replacement Parts**

**Product Cross Reference Information**

<table>
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</table>
Section IV – Holland’s Complete Line of Coupling Products continued

Coupler – Rigid Mount (Industrial)

**XA-T-150-AF Coupler**

**Application**
A unique rigid mount coupler designed for a variety of industrial material handling applications. Useful in instances where coupling is frequent, and easy, quick coupling release is desired. The latch automatically closes upon coupling.

**XA-T-150-AF**
Weight: 15 lbs.

**Capabilities for both Coupler and Coupler Ring**

**50 lbs. Maximum Vertical Load**
**15,000 lbs. Maximum Gross Trailer Weight**

**NOTE:** There is no secondary locking mechanism. This coupler is not designed for over-the-road applications.

**Drawbar Eye Dimensions**

5” I.D. with 1” diameter section.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH235.

**Product Cross Reference Information**

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</table>

**Mounting Dimensions XA-T-150-AF**

![Mounting Dimensions Diagram](image-url)
Coupler – Rigid Mount (Industrial/Airport Ground Support Equipment)
CP-380

Application
A one-of-a-kind rigid mount coupler that utilizes a cable pull release for easy uncoupling in industrial material handling and airport ground support applications. The CP-380 is useful in instances where coupling is frequent, and quick and easy coupling release is desired. The latch automatically closes upon coupling.

Lubrication and maintenance are minimal.

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

Bottom ring release mechanism for easy uncoupling and remote cable release.

Weight: 16 lbs.

Capacities
5,750 lbs. Maximum Vertical Load
23,000 lbs. Maximum Gross Trailer Weight

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

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

Product Information
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH222.

Mounting Dimensions

Replacement Parts

Product Cross Reference Information

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XL-PH329-02 Rev A
Section IV – Holland’s Complete Line of Coupling Products  

**Coupler – Rigid Mount (Industrial/Airport Ground Support Equipment)**  
**CP-400-CA**

**Application**
A strong rigid mount coupler that utilizes a cable pull release for easy uncoupling in industrial material handling and airport ground support applications. The CP-400-CA is useful in instances where coupling is frequent, and quick and easy coupling release is desired. The latch automatically closes upon coupling.

**Lubrication and maintenance are minimal.**

The cable pull release mechanism for easy uncoupling.

**Weight:** 25 lbs.

**Capacities**
7,500 lbs. Maximum Vertical Load  
30,000 lbs. Maximum Gross Trailer Weight

**NOTE:** There is no secondary locking mechanism. This coupler is not designed for over-the-road applications.

**Drawbar Eye Dimensions**
2.44˝ to 3˝ I.D. with 1.25˝ to 1.63˝ diameter section.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH232.

**Mounting Dimensions**

**Replacement Parts**

**Product Cross Reference Information**

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Section IV – Holland’s Complete Line of Coupling Products

Coupler – Rigid Mount (Industrial/Airport Ground Support Equipment)

**EH Series: EH-20, EH-40, and EH-60**

**Application**
A versatile series of patent pending, rigid mount couplers that are rated from 20,000 lbs. gross trailer weight (GTW) through 60,000 lbs. (GTW). Designed for a variety of airport ground support equipment and industrial material handling towing applications. Available with a standard pull-up handle or a drop down handle, and remote release options. Not intended for over-the-road applications.

**Capacities**
See the chart on page 74 for the Maximum Vertical Load and the Maximum Gross Trailer Weight for each option.

**NOTE:** There is no secondary locking mechanism. This coupler is not designed for over-the-road applications.

**Drawbar Eye Dimensions**
1.25” to 3” I.D. with up to 1.69” diameter section.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH309.

**Product Cross Reference Information**

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For EH-40 and EH-60 Series options, turn to page 74.
### E-Hitch Models Available

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<th>APPROX. WEIGHT LBS.</th>
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<td>EH-20RP22</td>
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</table>

Available in “Safety Yellow” paint.
Section IV – Holland’s Complete Line of Coupling Products

DRAWBARS – Rigid Mount Weld-On

DB-010EJ1 and DB-020FK1

Application

Used on a variety of airport ground support equipment and industrial material handling towing applications.

DB-010EJ1

Weight: 15 lbs.

The drawbar eye is 2.9” I.D. with a 1” diameter cross section.

Weld onto 2” x 4” (11 gauge) structural tubing.

DB-020FK1

Weight: 22 lbs.

The drawbar eye is 3” I.D. with a 1.63” diameter cross section.

Forged steel universal weld-on drawbar ring.

These drawbars are forged alloy steel and are designed to be readily welded to rectangular tube or bar without preheating.

Capacities

DB-010EJ1:
2,000 lbs. Maximum Vertical Load
10,000 lbs. Maximum Gross Trailer Weight

DB-020FK1:
4,000 lbs. Maximum Vertical Load
20,000 lbs. Maximum Gross Trailer Weight

IMPORTANT:
When used with hinged tongue trailers, where the maximum vertical load cannot exceed 500 lbs, the maximum gross trailer weight is 20,000 lbs for the DB-010EJ1 and 40,000 for the DB-020FK1.

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-DB124.

Product Cross Reference Information

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

Mounting Dimensions

DB-010EJ1

DB-020FK1

*NOTE: 12” of linear weld .38” bevel groove weld on 2” x 4” 11 gauge structural tubing required to obtain ratings.

**NOTE: 8.5” of linear weld .38” bevel groove weld (3” x 1.25” bar used) required to obtain ratings.
Section IV – Holland’s Complete Line of Coupling Products continued

**DRAWBARS**

Following is a list of other drawbars that are suitable for specialty, industrial/airport ground support equipment applications:

- DB-040DQ1 (see “Medium Duty”) ...........................................36
- DB-060FQ1 (see “Medium Duty”) ...........................................42
- DB-1228-1 (see “Light Duty”) .............................................23
- DB-1249-2H (see “Medium Duty”) ...........................................38
- DB-1250-3 (see “Light Duty”) ...............................................22
Section IV – Holland’s Complete Line of Coupling Products

Tow Hooks – Angled and Straight Type

TH-1257-AR or -AL, TH-1255-R or -L, TH-1276-A, TH-1274-R or -L

Application

Designed to be used in pairs for a tow cable or chain attachment. These tow hooks are to be used for only emergency towing. Not intended for use in towing trailers or equipment on- or off-road.

Forged alloy steel tow hooks—heat treated, angled configuration and are to be used in pairs.

TH-1257-AR or -AL

Right or left hand tow hook with 1.88” opening.

10,000 lbs. Maximum Drawbar Pull

Weight: 2 lbs. each

TH-1255-R or -L

Right or left hand tow hook with 2.5” opening.

15,000 lbs. Maximum Drawbar Pull

Weight: 5 lbs. each

TH-1276-A

Straight tow hook with 2.38” opening.

14,000 lbs. Maximum Drawbar Pull

Weight: 7 lbs. each

TH-1274-R or -L

Right or left hand tow hook with 2.5” opening.

17,000 lbs. Maximum Drawbar Pull

Weight: 5 lbs. each

Capacities

See above for individual tow hook capacities.

Product Information

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH220.

Product Cross Reference Information

<table>
<thead>
<tr>
<th>Holland</th>
<th>Premier</th>
<th>Wallace</th>
<th>Buyers</th>
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<tbody>
<tr>
<td>TH-1257-AR or -AL</td>
<td>–</td>
<td>057R or L</td>
<td>–</td>
</tr>
<tr>
<td>TH-1255-R or -L</td>
<td>–</td>
<td>055R or L</td>
<td>B2800A</td>
</tr>
<tr>
<td>TH-1276-A</td>
<td>–</td>
<td>076A</td>
<td>B2801C</td>
</tr>
<tr>
<td>TH-1274-R or -L</td>
<td>–</td>
<td>074R or L</td>
<td>–</td>
</tr>
</tbody>
</table>
Tow Hooks – Heavy Duty Angled Type

**TH-10050-1B, TH-10050-2B, TH-10050-3B, TH-10050-4B, TH-10050-5B**

**Application**
Super strong and tough, these tow hooks are designed to be used in pairs for a tow cable or chain attachment. These tow hooks are to be used for only emergency towing. Not intended for use in towing trailers or equipment on- or off-road. Forged alloy steel tow hooks—heat treated, angled configuration and are to be used in pairs. (They are sold in sets.)

**TH-10050-1B**
- Full Face* Mount rating: 34,000 lbs.
- Full Cantilevered** rating: 23,000 lbs.
- Weight: 4 5/8 lbs. each
- Use (2) 5/8” bolts to mount.

**TH-10050-2B**
- Full Face* Mount rating: 45,000 lbs.
- Full Cantilevered** rating: 33,000 lbs.
- Weight: 4 1/2 lbs. each
- Use (2) 3/4” bolts to mount.

**TH-10050-3B**
- Full Face* Mount rating: 45,000 lbs.
- Full Cantilevered** rating: 33,000 lbs.
- Weight: 4 1/2 lbs. each
- Use (2) 3/4” bolts to mount

**TH-10050-4B**
- Full Face* Mount rating: 34,000 lbs.
- Full Cantilevered** rating: 23,000 lbs.
- Weight: 4 5/8 lbs. each
- Use (2) 5/8” bolts to mount

**Capacities**
See above for individual tow hook capacities.

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.
For more product specific mounting information and operating instructions, refer to Holland specification sheets XL-PH306 and PH-310.

**Product Cross Reference Information**

<table>
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<tr>
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<td>–</td>
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<td>TH-10050-2B</td>
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<tr>
<td>TH-10050-4B</td>
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</tr>
</tbody>
</table>

**Mounting Dimensions**

![TH-10050-1B Diagram]

![TH-10050-2B Diagram]

![TH-10050-3B Diagram]

![TH-10050-4B Diagram]
Section IV – Holland’s Complete Line of Coupling Products

**Tow Shackle**

**TH-0681**

**Application**

This versatile tow shackle is used for lifting, tie downs, and emergency tow cable or chain attachment within stated capacities. Tow shackles are to be used for only emergency towing. They are not intended for use in towing trailers or equipment on- or off-road.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH221.

**Capacity**

18,000 lb. Maximum Drawbar Pull

Weight: 5 lbs.

Use 5/8” bolts to fasten

**Mounting Dimensions**

<table>
<thead>
<tr>
<th>TH-0681</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.75” I.D. Clevis with a .88” diameter cross section.</td>
</tr>
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</table>

**Product Cross Reference Information**

<table>
<thead>
<tr>
<th>Holland</th>
<th>Premier</th>
<th>Wallace</th>
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</thead>
<tbody>
<tr>
<td>TH-0681</td>
<td>–</td>
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</tr>
</tbody>
</table>
**Coupling Products and Accessories**

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

**Application**

Used in conjunction with PH-210, PH-300, PH-310, PH-410, PH-411 Series pintle hooks to simplify the coupling procedure by guiding the drawbar into the pintle hook throat.

**Description:**

**XA-02556**
- Left drawbar to pintle guide.
- Weight: 8 lbs.

**XA-02555**
- Right drawbar to pintle guide.
- Weight: 8 lbs.

**Pintle Hook Braces: XA-100-80**

**Application**

Used in conjunction with pintle hooks listed below to provide additional structural strength, where needed. Must be used in pairs. Designed for 3/4” frame width.

This end is to be used with the following pintle hooks:
- PH-T-60-AOS-L-8 (pg 20)
- PH-35 (pg 21)
- PH-T-60-AOL-8 (pg 27)
- PH-30 (pg 28)
- PH-16-B (pg 18)
- PH-16-BA (pg 19)
- PH-T-60-AL (pg 16)

This end is to be used with the following pintle hooks:
- PH-T-90-A (pg 29)
- PH-T-100-A (pg 30)
Coupling Products and Accessories

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-000004

Pintle Hook Wear Gage

<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-300, PH-400</td>
<td>TF-10612</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>
</tbody>
</table>

**Plunger Adjustment Gage**

**Application**
The plunger adjustment gage establishes proper air cylinder/pintle hook plunger adjustment.

**PH-200, 300, 400, 400-H & PH-550 Series**

TF-03147

**PH-210, 310, 410 & 411 Series**

TF-03147-10

**Product Information**
For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog. For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH304.
Section IV – Holland’s Complete Line of Coupling Products

Coupling Products and Accessories

**Pintle Mounts: PM-204A, PM-207A, PM-252A**

**Application**

These unique, patented, one piece cast pintle mounts provide more strength and lighter weight. They are used in conjunction with light duty pintle hooks in such applications as utility, construction, landscaping and municipal vehicles that tow a variety of trailers, air compressors, mixers, etc. Typically, they are used with Holland’s PH-60-AL, PH-16-B, PH-16-BA, PH-30, and PH-T-60-AOL-8 pintle hooks. These mounts fit into standard receivers on vehicles.

**PM-204A** (2” square shank)

SAE J684 Information:

Class IV Max. .......10,000 lbs. GTW

1,000 lbs. Max. Vertical Weight

Tested in accordance with SAE J847 (Type I)

**PM-207A** (2” square shank)

SAE J684 Information:

Class IV Max. .......10,000 lbs. GTW

1,000 lbs. Max. Vertical Weight

Tested in accordance with SAE J847 (Type I)

**PM-252A** (2.5” square shank)

SAE J684 Information:

Class IV Max. .......12,000 lbs. GTW

1,200 lbs. Max. Vertical Weight

Tested in accordance with SAE J847 (Type I)

**NOTE 1:** For off-road applications, reduce the above capacities by 25%.

**Product Information**

For general safety, maintenance, and mounting instructions, refer to page 14 of this catalog.

For more product specific mounting information and operating instructions, refer to Holland specification sheet XL-PH312.
**Section IV – Holland’s Complete Line of Coupling Products**  

**Coupling Products and Accessories**

**Pintle Hook Latch and Flange Kits**

**Application**

Replacement part latch and flange kits are available for most Holland pintle hooks. Latch kits are pre-assembled to eliminate loose parts and improper component assembly and reduce replacement time. In addition, the kits ensure that all worn and damaged parts are replaced. Flange kits include both front and back flanges to ensure that both are replaced at the same time to maximize product durability and to minimize wear on the pintle shank.

**NOTE:** Both latch and flange kits are conveniently boxed for easy resale. Boxes include replacement installation instructions. The instruction sheet form numbers are listed below.

### Available Pintle Hook Latch and/or Flange Replacement Kits

#### Latch Assembly Kits

**Rigid Mount**

<table>
<thead>
<tr>
<th>PINTLE HOOK MODEL NUMBER</th>
<th>LATCH ASSEMBLY KIT NUMBER</th>
<th>LITERATURE FORM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-16-B or PH-16-BA</td>
<td>RK-02155</td>
<td>XL-PH317</td>
</tr>
<tr>
<td>PH-30</td>
<td>RK-05643</td>
<td>XL-PH320</td>
</tr>
<tr>
<td>PH-75</td>
<td>RK-76-A</td>
<td>XL-PH319</td>
</tr>
<tr>
<td>PH-200 (-300, -400, -400-H) Series</td>
<td>RK-02536</td>
<td>XL-PH305</td>
</tr>
<tr>
<td>PH-200-R or PH-300-R</td>
<td>RK-03179</td>
<td>XL-PH305</td>
</tr>
<tr>
<td>PH-210</td>
<td>RK-10545</td>
<td>XL-PH340</td>
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<td>PH-310</td>
<td>RK-10545</td>
<td>XL-PH341</td>
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<td>PH-410</td>
<td>RK-10545</td>
<td>XL-PH342</td>
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<tr>
<td>PH-411</td>
<td>RK-10545</td>
<td>XL-PH343</td>
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<tr>
<td>PH-T-60-AL</td>
<td>RK-62-XA</td>
<td>XL-PH318</td>
</tr>
<tr>
<td>PH-T-60-AOL-8</td>
<td>RK-62-O</td>
<td>XL-PH321</td>
</tr>
</tbody>
</table>

*Exceptions: PH-200-R and PH-300-R

**Swivel Mount**

<table>
<thead>
<tr>
<th>PINTLE HOOK MODEL NUMBER</th>
<th>LATCH ASSEMBLY KIT NUMBER</th>
<th>LITERATURE FORM NUMBER</th>
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<tr>
<td>PH-35</td>
<td>RK-05643</td>
<td>XL-PH320</td>
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<tr>
<td>PH-760**</td>
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<tr>
<td>PH-775-01552**</td>
<td>RK-76-5A</td>
<td>XL-PH325</td>
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<td>PH-775SL11</td>
<td>RK-10545-1</td>
<td>XL-PH344</td>
</tr>
<tr>
<td>PH-775SL21</td>
<td>RK-10545-3</td>
<td>XL-PH345</td>
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<tr>
<td>PH-T-60-AOS-L-8</td>
<td>RK-62-0</td>
<td>XL-PH321</td>
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</table>

**Flange Assembly Kits**

<table>
<thead>
<tr>
<th>PINTLE HOOK MODEL NUMBER</th>
<th>FLANGE ASSEMBLY KIT NUMBER</th>
<th>LITERATURE FORM NUMBER</th>
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<tr>
<td>PH-760</td>
<td>RK-02772</td>
<td>XL-PH316</td>
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<tr>
<td>PH-T-60-AOS-L-8</td>
<td>RK-T-61</td>
<td>XL-PH313</td>
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<tr>
<td>PH-T-90-A</td>
<td>RK-T-92</td>
<td>XL-PH314</td>
</tr>
<tr>
<td>PH-T-100-A</td>
<td>RK-T-92-A2</td>
<td>XL-PH315</td>
</tr>
</tbody>
</table>

### Air Chamber Assemblies

**Application**

For different mounting structure widths.  
(Include the air chamber and plunger or bullet.)

*For PH-210, PH-310, PH-410 and PH-411 Series Pintle Hooks*

<table>
<thead>
<tr>
<th>PH-210</th>
<th>PH-310</th>
<th>PH-410</th>
<th>PH-411</th>
<th>MOUNTING STRUCTURE WIDTH WHEN X IS</th>
<th>AIR CHAMBER ROD LENGTH IS</th>
<th>HOLLAND PART # FOR AIR CHAMBER &amp; PLUNGER ASSEMBLY</th>
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</thead>
<tbody>
<tr>
<td>PH-210RA11</td>
<td>PH-310RA11</td>
<td>PH-410RA11</td>
<td>PH-411RA11</td>
<td>.5” to 2.0”</td>
<td>1.8”</td>
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<td>PH-210RC11</td>
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<td>PH-410RC11</td>
<td>PH-411RC11</td>
<td>6.0” to 8.0”</td>
<td>6.1”</td>
<td>XA-10196</td>
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<td>PH-210RD11</td>
<td>PH-310RD11</td>
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<tr>
<td>PH-210RE11</td>
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<td>PH-410RE11</td>
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<td>9.1”</td>
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<td>PH-210RF11</td>
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<td>PH-410RF11</td>
<td>PH-411RF11</td>
<td>12.0”</td>
<td>12.0”</td>
<td>XA-10198</td>
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</table>

*Includes mounting bracket*
**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 cab control valve is operated from within the cab.

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

**Capacities**

390 lbs. Maximum Vertical Load

15,000 lbs. Maximum Gross Trailer Weight

**Weight:** 116 lbs.

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.

**Mounting Dimensions: TF-675**

**Mounting Dimensions: TF-675-1**

**TF-675**

- **A** Maximum drawbar elevation range: 9”
- **B** 12” usable stroke
- **C** 14.75” total stroke
- **D** Provide adequate clearance

**TF-675-1**

- **A** Maximum drawbar elevation range: 9”
- **B** 12” usable stroke
- **C** 14.75” total stroke
- **D** Provide adequate clearance
Mounting Heights

When mounting a pintle hook, coupler, or drawbar, a height should be selected that results in the towed vehicle being approximately level to the towing vehicle. Any offset in height will create vertical and horizontal displacement of the drawbar in the pintle or coupler horn (see figure 1). This mismatch in height will lead to accelerated wear of the coupling device and changes in vertical load and vehicle handling.

![Improper Mounting Height](causing vertical and horizontal movement)

Mounting Surfaces

The mounting surface must be flat and of adequate strength to support the rated capacity of the coupling device. It must also have sufficient vertical strength and drawbar strength in accordance with the requirements of SAE J849 and SAE J847 Type I and Type II. If the mounting surface is not flat, warping or distortion of the coupling device may occur. A distorted mounting surface will also lead to uneven loading of the mounting hardware, coupling device and mounting structure, which may lead to mounting failure.

Fastener Selection

Selected fasteners must correspond to the mounting recommendations contained in the Holland specification sheets. All hardware selected must be Grade 8 and of adequate length to provide a minimum of two full threads beyond the end of the nut when properly tightened (see Figure 2). Grade 8 bolts should be used in conjunction with hardened flat washers and Grade C locknuts.

![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.)

Fastener Torquing

To develop the fully rated capacity for a coupling device, the fasteners must be Grade 8. They must all be present and properly torqued to the bolt manufacturer’s recommendations. This is a critical requirement. There are three situations that can develop from improper torquing:

1. Undertorquing can lead to loose fasteners, which will in turn cause movement between the coupling device and its mount. Undertorquing can also result in fastener failure from impact forces created by inadequate preload.

2. Overtorquing can lead to fastener elongation and loosening by exceeding the fastener’s yield point. Excessive overtorquing can result in the fastener’s failure.

3. Torquing the mounting fasteners at different values will have the effect of operating with the lower torqued bolts missing. The load is carried only by the most highly torqued fasteners. This condition overloads the most highly torqued fastener, resulting in its elongation. When a bolt becomes elongated or stretched, it will loosen up or fail. A coupling device should never be used with loose or missing fasteners.

Air Cushions

To receive maximum benefit, a snubber-type cushion air chamber (used to control the clearance between the drawbar and coupling device) should be plumbed so the plunger is always energized (tight against the drawbar) when the drawbar is present.

When operating without a drawbar, some means should be provided to de-energize the plunger to prevent jamming and damage to the plunger and/or air chamber. The air supply should not be plumbed from the service air brake system, but must be plumbed from the emergency side of the relay valve. The air source, plumbing, and pressure protection required should be per the vehicle manufacturer’s recommendations. It is also important when mounting air cushions to properly align the plunger, plunger rod, and air chamber. Improper alignment can result in the failure of the chamber and/or the plunger rod.

The plunger should be adjusted to hold the drawbar firmly against the coupling device when it is energized, to provide adequate clearance for coupling and uncoupling when de-energized.

continued
Safety Chains

Safety chains are an integral part of the coupling system. The safety chain system is intended to keep the towing and towed vehicles together and to control the direction of travel of the towed vehicle in the event of an improper coupling or coupling device failure.

Safety chains are required on all vehicles using a pintle hook/coupler and drawbar device to pull a trailer. These requirements are outlined in the Federal Motor Carrier Safety Regulation 393.70. Similar recommended practices are covered in the Society of Automotive Engineers (SAE) J697 and Truck Trailer Manufacturers Association (TTMA) RP-6. Most states have either adopted the Federal Motor Carrier Safety Regulations as the state standard or have developed a similar standard that parallels the Federal Motor Carrier Safety Regulations. These regulations require the following items regarding safety chains or cables:

1. The safety device must not be attached to the pintle hook or other device.
2. The safety device must have no more slack than is necessary to permit the vehicles to be turned properly.
3. The safety device, and means of attaching it to the vehicles, must have an ultimate strength of not less than the gross weight of the vehicle being towed.
4. The safety device must be connected to the towed and towing vehicle and the tow bar in a manner that prevents the tow bar from dropping to the ground if it fails or becomes disconnected.

To ensure that the above regulations are adhered to, the following actions must be taken:

1. The safety chains must be short enough to keep the drawbar from contacting the ground, and need to be connected so they cross beneath the tongue of the towed vehicle (see Figure 3A). If the towed vehicle accidentally becomes disconnected, the tongue would then be supported by the chains. This will eliminate the tongue digging into the ground, resulting in the sudden overload (and failure) of the safety chains (see Figure 3B).

2. To be effective, the attachment points on the towing and towed vehicles should be located as close to the frame width as possible (see Figure 4A). This positioning will allow the safety chain (attached to the right side of the tow vehicle) to pull the trailer to the right, while the left side pulls the trailer to the left. These two forces will balance, resulting in proper tracking so the equipment can be controlled while stopping. As shown in Figure 4B, having the chains attached near the center allows considerable off-tracking and violent moving from left to right. This can result in safety chain failure or collisions with oncoming vehicles.

3. When attaching safety chains to the towed vehicle it is important that the attaching device is of equal or greater strength than the chain.
4. A hinged tongue is not an integral part of the trailer. Consequently, if the towed vehicle has a hinged tongue drawbar, the safety chain cannot be attached to the drawbar. It must be attached to the frame.

Utilizing safety chains of the proper size and condition is a very important step toward safe vehicle operation.


**Weld Repairs**

Holland pintle hooks, drawbars, and couplers are made from quenched and tempered alloy steels. **Weld repairs to either repair a broken part or build up a worn surface are strictly forbidden.** Such weld repairs can locally alter the chemistry, heat treatment, and strength of the coupling device, leading to its failure, or create a stress concentration which could initiate a fatigue failure.

**Inspection and Replacement**

All coupling devices and safety chains should be regularly inspected as outlined in the maintenance section of the appropriate specification sheet.

Additional inspections should be conducted immediately if there is:

- overloading
- binding of the drawbar upon backing
- jackknifing
- bottoming of articulation
- bottoming of oscillation
- any other abuse suspected.

Immediate replacement is required if any cracks are noted or if wear exceeds the limits outlined in the specifications sheet.
Section VI – Glossary

“A” Dolly
A type of dolly used to convert a semi-trailer to a full trailer that has one drawbar/pintle hook connection located at the longitudinal center of both units (see figure, right).

Air-cushion
A snubber-type device which uses air pressure to control the clearance between the drawbar and coupling device.

Articulation
Movement between the towing and towed vehicles as they negotiate over hills and valleys.

Ball hitch
A coupling device that uses a ball attached to the towing vehicle and a socket coupler attached to the towed vehicle similar to a boat trailer connection.

Cast body
A part or housing of a pintle hook, drawbar, or coupler formed by the casting process.

Chamfer
A beveled edge or corner, such as one cut at a 45 degree angle (see figure, right).

Clevis
A U-shaped piece of steel with holes in the ends through which a pin is attached making it a “D” shaped link. Frequently used to attach safety chains.

Converter dolly
See “A” Dolly.

Coupler
A coupler differs from a pintle hook (see pintle hook) in that the towing horn is not fixed but pivots. This device is coupled by backing the coupler into the (lunette) drawbar eye attached to the towed vehicle.

De-energize
To remove power or air pressure, to retract.

Dolly
A device consisting of a frame, axle(s) drawbar(s), fifth wheel and suspension used to convert a semitrailer to a full trailer.

Drawbar
See “(Lunette) Drawbar.”

Drawbar capacity
The maximum horizontal pulling force that can be safely applied to a coupling device during service.

Energize
To apply power or air pressure, to extend.

Fastener torque
The procedure to measure the tightness of a fastener using a torque wrench (i.e. in-lbs., ft-lbs., etc.).

Fatigue
The gradual failure of a part or fastener resulting from the application and removal or reversal of a load many times.

Forged body
A part or housing of a pintle hook, drawbar or coupler formed by the forging process.

G.C.V.W. – Gross Combination Vehicle Weight
The total weight of the towing vehicle, the towed vehicle(s), and payload. Same as GTW if the vehicle is a trailer.

G.T.W. – Gross Trailer Weight or Gross Towed Weight
The sum of the weight of an empty trailer(s) and its payload.

G.V.W.R. – Gross Vehicle Weight Rating
The vehicle’s maximum gross capacity. This rating is found on the trailer’s identification tag, which generally includes the manufacturer’s name, vehicle model and vehicle serial number (VIN).

Jackknife
Articulation between the towing and towed vehicles (generally greater than 90 degrees) that may result in binding.

(Lunette) Drawbar
A lunette drawbar eye is a steel “doughnut” shaped coupling device which is attached to the towed vehicle by various bolting or welding configurations. It is intended to mate with a pintle hook or coupler. The drawbar eye dimensions can vary, but are usually one of the three sizes listed below.

- 2.38” I.D. with a 1.62” section.
- 2.5” I.D. with a 1.25” x 1.5” oval section.
- 3” I.D. with a 1.62” section.

Maximum Gross Trailer Weight capacity
The largest weight of both the trailer and its contents that can be safely towed by a coupling device.

Maximum Vertical Load capacity
The maximum recommended static vertical load (down) that can be applied to a coupling device for safe operation.

Mounting height
The vertical height from the ground to the bottom of the drawbar interface when the vehicle is on level ground.

Mounting surface (coupling device)
A flat area to attach a coupling device. This surface must have adequate strength to support the rated capacity of the coupling device and also withstand a drawbar pull equivalent to 115% of the GTW of the towed vehicle.

continued
**Section VI – Glossary continued**

**Off-road application**
Refers to the terrain on which the towing/towed vehicle will operate which is unpaved, rough, or ungraded. Any terrain not considered part of the public highway system.

**Oscillation**
Rotation about an axis parallel with the towing vehicle.

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

**Pintle horn**
The hook or towing portion of a pintle hook body.

**Pintle hook**
A pintle hook is a trailer coupling device which utilizes a fixed towing horn which mates with a (lunette) drawbar eye attached to the towing vehicle. This device is coupled by raising the drawbar eye over the pintle horn and securing it by closing a pivotal latch.

**Plunger**
The device that contacts the drawbar on a (snubber) cushioned pintle hook or the pintle hook horn on a cushioned drawbar.

**Plunger rod**
The part of a pintle hook or drawbar cushion that attaches the plunger to the actuating device (which generally includes the adjustment).

**Rated capacity**
The published rated capacities of a coupling device are the maximum safe gross trailer weight or vertical load than can be applied under static conditions.

**Safety chains, cables**
A system intended to keep the towing and towed vehicles together and control the direction of travel of the towed vehicle in the event of a coupling failure.

**Secondary lock**
A back-up locking feature used on all pintle hooks or couplers used on over-the-road applications.

**Semi-trailer**
A trailer type which is partially supported vertically by the towing vehicle.

**Shock absorption cushion**
A pintle hook whose design provides shock absorption for start-up of the towed vehicle.

**Shock loading**
The dynamic forces generated when a towed vehicle goes over a bump, through a pothole, etc.

**Static condition**
Weights or loads measured when the vehicle is stationary (not moving).

**Single axle**
Refers to a towing vehicle with one rear axle or a towed vehicle with one axle.

**Snubber cushion**
A pintle hook whose design provides a means to reduce the clearance between the drawbar and pintle horn.

**Tandem axle**
Refers to a towing vehicle with two rear axles or a towed vehicle with two axles.

**Triaxle**
A towing vehicle with three rear axles or a towed vehicle with three axles.

**Utility type trailer**
A semitrailer that has a rigid drawbar designed to interface with a ball hitch or pintle hook.

**Vertical load**
The load or downward force measured at the end of the trailer tongue, generally recommended to be 10% of the gross trailer weight and not more than the rated vertical capacity.

**VIN – Vehicle Identification Number**
Also known as the serial number assigned by the vehicle's manufacturer. Generally found on a name plate attached to the vehicle.

**Bolster plate height**
The height from the ground to the bolster plate when the trailer is level and unladen.
## Holland Coupler Products Capacities

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## Holland Coupler Products Capacities

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## Section VIII – Pintle Hook/Coupler/Drawbar Compatibility

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* Only with 500 lbs. or less vertical load
### Section VIII – Pintle Hook/Coupler/Drawbar Compatibility

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* X: Compatible
  * XX: Limited Compatibility

### Compatibility Matrix

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