

**HENDRICKSON USE ONLY**

# H<sup>®</sup> ORDERING GUIDE

## HENDRICKSON TRAILER AXLES — HN / HP MODELS

LIT NO: L964

DATE: November 2011

REVISION: H

**FORM INSTRUCTIONS:**

For complete price and model number information on HN or HP Hendrickson Trailer Axles, fax this form to 800.696.4416 in the U.S. or 905.789.1033 in Canada. For additional assistance or to place an order for an axle that is not an HN or HP, please call toll-free 866.RIDEAIR (743.3247) in the U.S. or 800.668.5360 in Canada.

<b>TO:</b>	<b>FROM:</b>	<b>COMPANY NAME:</b>
<b>DATE:</b>	<b>PHONE:</b>	<b>FAX:</b>

<b>SAME AS:</b>	<b>EXCEPT:</b>
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**AXLES**

<b>APPLICATION:</b>	<input type="checkbox"/> Air Suspension	<input type="checkbox"/> Mechanical Spring
<b>SPINDLE:</b>	<input type="checkbox"/> HN	<input type="checkbox"/> HP
<b>AXLE STYLE:</b>	<input type="checkbox"/> Straight (Standard) <input type="checkbox"/> Bent Tube, See Lit # H722, or Contact Hendrickson Auxiliary division at 800.660.2829	
<b>AXLE TRACK<sup>1</sup>:</b>	<input type="checkbox"/> 71.5" <input type="checkbox"/> 77.5" <input type="checkbox"/> Other: _____	
<b>AXLE WALL<sup>2</sup>:</b>	<input type="checkbox"/> 1/2" Nom. <input type="checkbox"/> 5/8" Nom. <input type="checkbox"/> 5/8" Heavy Duty <input type="checkbox"/> 3/4" Nom.	
<b>TIRE INFLATION SYSTEM<sup>3</sup>:</b>	<input type="checkbox"/> No <input type="checkbox"/> TIREMAAX <sup>®</sup> CP (Complete Worksheet on Page 4) <input type="checkbox"/> TIREMAAX <sup>®</sup> PRO (Complete Worksheet on Page 4) <input type="checkbox"/> 3-Hole Prep <input type="checkbox"/> MTIS Prep	

**BRAKES**

<b>BRAKE TYPE:</b>	<input type="checkbox"/> Drum <input type="checkbox"/> Air Disc (Complete L895 — <i>Air Disc Brake Ordering Guide</i> )		
<b>SPIDER STYLE:</b>	<input type="checkbox"/> None <input type="checkbox"/> Weld-on <input type="checkbox"/> Bolt-on <input type="checkbox"/> Other: _____		
<b>BRAKE SIZE:</b>	<input type="checkbox"/> 16.5" x 7" <input type="checkbox"/> 16.5" x 8.625" <input type="checkbox"/> 15" x 8.625" <input type="checkbox"/> 12.25" x 5.5" <input type="checkbox"/> 12.25" x 7.5"		
<b>BRAKE MODEL:</b>	<b>Standard Axle Brake Options:</b> <input type="checkbox"/> Bendix-Spicer Fast Change Standard <input type="checkbox"/> Bendix-Spicer Fast Change XLII	<b>Hendrickson<sup>4</sup> Machined Axle Brake Options:</b> <input type="checkbox"/> Hendrickson <sup>4</sup> Standard Service <input type="checkbox"/> Hendrickson <sup>4</sup> HXS – Extended Service	<input type="checkbox"/> Pin Style (16.5" x 7" Only)
<b>BRAKE SHOE / LINING:</b>	<input type="checkbox"/> ES-460 (Abex 3030-197) <input type="checkbox"/> ES-600 (Avex 931-162) <input type="checkbox"/> BX691 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">Linings available with Bendix-Spicer Brakes</div>	<input type="checkbox"/> Abex 3030-197 (Standard) <input type="checkbox"/> Abex 931-162 <input type="checkbox"/> Abex NAB 456 <input type="checkbox"/> Ultraa20™ <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">Linings available with Hendrickson Brakes</div>	<input type="checkbox"/> Abex 931-162 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">Linings available with Pin Style Brakes</div>
<b>DUST SHIELDS:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes (16.5" Brakes Only)		

- Axle tracks between 67.5 and 95.5 inches are available in 1/2-inch increments with some popular 1/4-inch increment lengths. Axle tracks above 96 inches are available in 1-inch increments. Axle tracks below 67.5 inches and other exceptions will be evaluated on a case-by-case basis.
- 1/2-inch nominal axle wall is only permitted on mechanical spring suspensions.
- Hendrickson does not provide warranty coverage for the installation, performance or components of a competitor-brand tire inflation system installed on a Hendrickson Trailer Axle. Any consequential damages to the Hendrickson Trailer Axle resulting from a failure to the competitor-brand tire inflation system or components, whether installed by the OEM, repair facility or end-user, should be directed to the respective tire inflation system manufacturer for warranty coverage.
- The Hendrickson Machined Axle was designed by Hendrickson engineering.



**ABS SENSOR TYPE:**  No Sensor  Other Sensor (Not Listed Below): \_\_\_\_\_

**Straight**  WABCO, 1.7m lead / 66.9"  WABCO, 1.0m lead / 39.4"  Bendix, 2.0m lead / 78.7"  Haldex, 0.5m lead / 19.7"

**90°**  WABCO, 0.4m lead / 15.7"  WABCO, 1.1m lead / 36.0"  Bendix, 0.4m lead / 15.7"  Haldex, 0.5m lead / 19.7"

S - C A M S

**NUMBER OF SPLINES:**  28  10

**CAM LENGTH<sup>5</sup>:**  23.75" (Air)  20.625" (Spring)  Other: \_\_\_\_\_ (6.5" min. - 35.5" max.)

**CAM LOCATION:**  On CL (Standard)  Below CL  Above CL

**CAM ANGLE:**  On CL ±10 degrees (Standard)  15 degrees  20 degrees  25 degrees

**CAM POSITION:**  Rear (Standard)  Forward

**CAM ENCLOSURE<sup>6</sup>:**  No (Standard Cam Bracket)  Yes (Cam Tube System)

B R A K E A D J U S T E R S

**BRAKE ADJUSTER TYPE:**  No  Manual  Automatic (Standard)

**BRAKE ADJUSTER BRAND:**  No  Standard  Other: \_\_\_\_\_

**BRAKE ADJUSTER LENGTH:**  No  5.5"  6" (Standard)

**BRAKE ADJUSTER POSITION:**  Down (Standard)  Up

B R A K E C H A M B E R S

**BRAKE CHAMBER BRAND:**  No  Standard  Other: \_\_\_\_\_

**BRAKE CHAMBER BRACKET:**  Standard  High Rise  No (Air Disc Brake Only)

**BRAKE CHAMBER TYPE/SIZE<sup>7</sup>:**  
**Service / Spring:**  20/24  24/24  24/30  30/30  30/36  Other: \_\_\_\_\_  
**Service Only:**  Type 16  Type 20  Type 24  Type 30  Type 36  Other: \_\_\_\_\_

**BRAKE CHAMBER WARRANTY:**  No  Standard  Extended Life

**PORT ORIENTATION:**  Up (Standard)  Down



ARE YOU ORDERING WHEEL-END OPTIONS?

No (complete the remainder of page 2 and go to page 4)  Yes (go to page 3)

**SPINDLE NUT:**  No  3-Piece Nut (Set Screw)  3-Piece Nut (Star Washer - HN only)  Other: \_\_\_\_\_

**HUB AND DRUM DATA<sup>8</sup>:**  Standard Hub-Piloted Hub and Outboard Mounted Drum

Other (includes stud-piloted): Hub Brand: \_\_\_\_\_ Part Number: \_\_\_\_\_  
 Drum Brand: \_\_\_\_\_ Part Number: \_\_\_\_\_

5. Cam lengths are limited.

6. Cam enclosure option available on limited number of cam lengths for 16-1/2 inch, 12-1/4 inch and 15-inch brakes.

7. "Service - only" brake chambers are used when parking brakes are not needed.

8. Knowing the hub and drum for the axles helps Hendrickson locate the brake on the axle. By selecting, "Standard Hub-piloted Hub and Outboard Mounted Drum," you are specifying that the hub and "outboard-mounted" drum will be a typical industry standard like shown in the table below. Otherwise, please specify the hub and drum brand and part number. If you are specifying stud-piloted, you must fill in the "Other" item in the "Hub and Drum Data" section above.

Typical industry-standard, hub-piloted hubs and outboard-mounted drums

Brake Sizes		16-1/2" x 7" 10-stud, 11-1/4" Bolt Circle	16-1/2" x 8-5/8" 10-stud, 11-1/4" Bolt Circle	15" x 8-5/8" 8-stud, 275mm Bolt Circle	15" x 8-5/8" 10-stud, 11-1/4" Bolt Circle	12-1/4" x 7-1/2" 8-stud, 275mm Bolt Circle
HN	Webb Hub	2023 Series	2023 Series	2028 Series	2023 Series	2027 Series
	Webb Drum	66864 Series	66854 Series	61989 Series	61988 Series	63680 Series
HP	Webb Hub	2343 Series	2343 Series	2328 Series*	2343 Series	2327 Series
	Webb Drum	66864 Series	66854 Series	61989 Series	61988 Series	63680 Series

\*This hub is not available through The Configurator nor is it listed in the wheel end matrix.

	<input type="checkbox"/> <b>3-Spoke 15-inch Standard Service</b> (1-Year Limited Warranty <sup>10,11</sup> )	<input type="checkbox"/> <b>Standard Service</b> (1-Year Limited Warranty <sup>10</sup> )	<input type="checkbox"/> <b>Hendrickson Value System™ – HVS™</b> (3-Year Limited Warranty <sup>10</sup> )	<input type="checkbox"/> <b>Hendrickson Long-Life System™ – HLS™</b> (5-Year Limited Warranty <sup>10</sup> )	<input type="checkbox"/> <b>Hendrickson Extended Life System™ – HXL7™</b> (7-Year Limited Warranty <sup>10</sup> )
<b>SPINDLE:</b>	<input type="checkbox"/> HN <input type="checkbox"/> HP	<input type="checkbox"/> HN <input type="checkbox"/> HP	<input type="checkbox"/> HN <input type="checkbox"/> HP	<input type="checkbox"/> HN <input type="checkbox"/> HP	HP
<b>HUB MATERIAL:</b>	Ductile Iron	<input type="checkbox"/> Dura-Light Hubs® <input type="checkbox"/> Aluminum <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Dura-Light Hubs® <input type="checkbox"/> Aluminum <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Dura-Light Hubs® <input type="checkbox"/> Aluminum <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Aluminum
<b>ABS TONE RING:</b>	Yes	Yes	Yes	Yes	Yes
<b>NUMBER OF STUDS:</b> B.C.=Bolt Circle Diameter	3 (15-inch Rim Size)	<input type="checkbox"/> 10 (11.25-inch B.C.) <input type="checkbox"/> 10 (335 mm B.C.- HN only) <input type="checkbox"/> 8 (275 mm B.C.)	<input type="checkbox"/> 10 (11.25-inch B.C.) <input type="checkbox"/> 8 (275 mm B.C.)	<input type="checkbox"/> 10 (11.25-inch B.C.) <input type="checkbox"/> 8 (275 mm B.C.)	10 (11.25-inch B.C.)
<b>SPOKE SPACER:</b>	<input type="checkbox"/> 4.00 inches <input type="checkbox"/> 3.38 inches <input type="checkbox"/> No	N/A	N/A	N/A	N/A
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Steel / Aluminum
<b>DUAL / SUPER SINGLE<sup>12</sup>:</b> (SS) Short Stud (LS) Long Stud	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)
<b>DRUM MATERIAL<sup>12</sup>:</b>	<input type="checkbox"/> Cast <input type="checkbox"/> Fused	<input type="checkbox"/> Cast <input type="checkbox"/> Fused	<input type="checkbox"/> Cast <input type="checkbox"/> Fused	<input type="checkbox"/> Cast <input type="checkbox"/> Fused	<input type="checkbox"/> Cast <input type="checkbox"/> Fused
<b>DRUM MOUNT:</b>	N/A	<input type="checkbox"/> Inboard <input type="checkbox"/> Outboard	Outboard	Outboard	Outboard
<b>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 (Standard) <input type="checkbox"/> #2 Grease <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Other: _____	<input type="checkbox"/> SAE 80/90 (Standard) <input type="checkbox"/> #2 Grease <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Other: _____	<input type="checkbox"/> SAE 80/90 (Standard) <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease	Semi-Fluid Grease
<b>SEAL BRAND:</b>	<input type="checkbox"/> Stemco Voyager (Standard) <input type="checkbox"/> Stemco Guardian <input type="checkbox"/> CR Scotseal Plus <input type="checkbox"/> Stemco Discover	<input type="checkbox"/> Stemco Voyager (Standard) <input type="checkbox"/> Stemco Guardian <input type="checkbox"/> CR Scotseal Plus <input type="checkbox"/> Stemco Discover	Standard	Standard	Standard
<b>BEARING BRAND:</b>	<input type="checkbox"/> Standard <input type="checkbox"/> Other	<input type="checkbox"/> Standard <input type="checkbox"/> Other	Standard	Standard	Standard
<b>SPINDLE NUT:</b>	<input type="checkbox"/> 3-Piece (Set Screw) <input type="checkbox"/> 3-Piece (Star Washer - HN only)	<input type="checkbox"/> 3-Piece (Set Screw) <input type="checkbox"/> 3-Piece (Star Washer - HN only)	Standard	Standard	Precision 320
<b>HUBCAP TYPE:</b>	Standard Bolt-on	Standard Bolt-on	Standard Bolt-on	Standard Bolt-on	Corrosion Resistant Bolt-on

9. Consult a customer service representative to ensure the compatibility of the wheel-end equipment with the other selected axle parameters. READY TO ROLL® (RTR®) wheel-end packages are standard with hub-piloted hubs.

10. Refer to Hendrickson publication L583, *Comprehensive Warranty Statement*, for complete details.

11. Spoke wheel availability is limited to Webb brand for use with 12.25-inch brakes.

12. Information purpose only, not for ordering. Contact Hendrickson for the axle rating when offset wheels are used.

DRUM OPTIONS

<b>DRUM DUTY:</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> Heavy Duty
<b>DRUM BALANCING:</b>	<input type="checkbox"/> Balanced	
<b>WHEEL FASTENERS<sup>13</sup>:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No

SPECIAL NOTES: \_\_\_\_\_

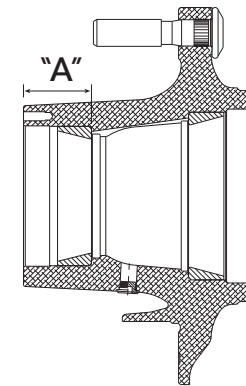
**TIREMAAX® KIT WORKSHEET<sup>14</sup> (Not Included in Hendrickson Trailer Axle Model Number — Sold Separately)**

<b>CONTROLLER TYPE:</b>	<input type="checkbox"/> CP	<input type="checkbox"/> PRO									
<b>NUMBER OF AXLES:</b>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> Other: _____						
<b>HUBCAP TYPE:</b>	<input type="checkbox"/> Bolt-On	<input type="checkbox"/> Extended Bolt-On <sup>15,16,17</sup>									
<b>LUBE TYPE:</b>	<input type="checkbox"/> Semi-Fluid Grease	<input type="checkbox"/> Oil									
<b>WHEEL STYLE:</b>	<input type="checkbox"/> Dual	<input type="checkbox"/> Super Single - Steel 180° Fitting	<input type="checkbox"/> Super Single - Steel 135° Fitting	<input type="checkbox"/> Super Single - Aluminum Standard Fitting							
<b>TIRE SIZE:</b>	<input type="checkbox"/> 17 - 19.5"	<input type="checkbox"/> 22.5"	<input type="checkbox"/> 24.5"								
<b>COLD TIRE PRESSURE SETTING (psi)<sup>18</sup>:</b>	<input type="checkbox"/> 70	<input type="checkbox"/> 75	<input type="checkbox"/> 80	<input type="checkbox"/> 85	<input type="checkbox"/> 90	<input type="checkbox"/> 95	<input type="checkbox"/> 100	<input type="checkbox"/> 105	<input type="checkbox"/> 110	<input type="checkbox"/> 115	<input type="checkbox"/> 120
<b>TRAILER-MOUNTED INDICATOR LAMP KIT:</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> LED	<input type="checkbox"/> No								
<b>WIRING HARNESS:</b>	<input type="checkbox"/> Premium, 15-Foot, ABS-ready	<input type="checkbox"/> Standard, 18-inch, Wiring Adaptor Plug	<input type="checkbox"/> Premium, 3-Foot, ABS-ready	<input type="checkbox"/> None							
<b>AIR PLUMBING KIT:</b>	<input type="checkbox"/> Manifold <sup>19</sup>	<input type="checkbox"/> None									
<b>CONTROLLER TANK VALVE<sup>20</sup>: (Pressure Check)</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No									

If the hub bore dimension is less than the dimension shown in the chart, a Stemco hubcap is required for proper rotary joint assembly clearance.

SPINDLE NUT SYSTEM	Dimension "A"	
	SPINDLE TYPE	
	HN	HP
Standard three-piece	1.52"	1.44"
Stemco PRO-TORQ one-piece	1.69"	2.12"

Dimension "A" is measured from the bottom of the bearing cup to the hubcap mounting surface.



- 13. Two (2) wheel fasteners factory installed per wheel end with balance packaged in plastic bag, taped and stretch-wrapped to each wheel end.
- 14. When installing TIREMAAX®, please contact Hendrickson to verify correct wheel-end component integration.
- 15. Required with TIREMAAX CP equipped with Stemco PRO-TORQ spindle nut.
- 16. Required with TIREMAAX CP equipped with ADI hubs on HN spindle.
- 17. Required with TIREMAAX PRO equipped with castellated spindle nut.
- 18. Refer to tire manufacturer's recommended tire pressure. TIREMAAX PRO with Dual wheels restricted to Cold Tire Pressure Setting of 80-120 psi. TIREMAAX PRO with Single wheels restricted to Cold Tire Pressure Setting of 90-120 psi.
- 19. Not required for single-axle systems.
- 20. Not available with TIREMAAX PRO.

www.hendrickson-intl.com



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