

**HENDRICKSON USE ONLY**

# **ORDERING GUIDE**

## **INTRAAX® SUSPENSION**

LIT NO: L602

DATE: March 2017

REVISION: GG

### **FORM INSTRUCTIONS**

For complete price and model number information on an INTRAAX® suspension system, fax this form to 800.696.4416 in the U.S. or 905.789.1033 in Canada. For additional assistance, please call toll-free 866.RIDEAIR (743.3247) in the U.S. or 800.668.5360 in Canada.

**TO:** \_\_\_\_\_ **FROM:** \_\_\_\_\_ **COMPANY NAME:** \_\_\_\_\_

**DATE:** \_\_\_\_\_ **PHONE:** \_\_\_\_\_ **FAX:** \_\_\_\_\_ **EMAIL:** \_\_\_\_\_

**SAME AS:** \_\_\_\_\_ **EXCEPT:** \_\_\_\_\_

### **SUSPENSION**

<b>SUSPENSION MODEL:</b>	<input type="checkbox"/> AAT 23K <input type="checkbox"/> AAT 25K <input type="checkbox"/> AAT 30K <sup>1</sup> <input type="checkbox"/> AAEDT 30K <input type="checkbox"/> AAL 23K <input type="checkbox"/> AAL 25K <input type="checkbox"/> AAL 30K <sup>1</sup> <input type="checkbox"/> AAEDL 30K
	<b>REQUIRES ENGINEERING APPROVAL:</b> <input type="checkbox"/> AANT 23K <input type="checkbox"/> AANL 23K <input type="checkbox"/> AANLS 20K
<b>RIDE HEIGHT:</b> (inches)	<input type="checkbox"/> 6.5 <input type="checkbox"/> 7.5 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 13.5 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19
<b>FRAME BRACKET:</b>	<input type="checkbox"/> Bolt-On <input type="checkbox"/> Weldable Bolt-On <input type="checkbox"/> Side-Mount Bolt-On <input type="checkbox"/> Weld-On <input type="checkbox"/> Other
	<b>MOUNTING BOLT SIZE:</b> <input type="checkbox"/> 0.500" <input type="checkbox"/> 0.625" <b>BOLT PATTERN NUMBER:</b> _____
<b>FRAME BRACKET STYLE:</b>	<input type="checkbox"/> Wingless Hanger <input type="checkbox"/> Hanger with Wing
<b>FRAME BRACKET PROFILE:</b>	<input type="checkbox"/> N/A <input type="checkbox"/> Standard <input type="checkbox"/> Tapered <sup>2</sup> (Optional for AANT/AANL only)
<b>FRONT SHOCK ABSORBER:</b>	<input type="checkbox"/> Standard <input type="checkbox"/> Extended Service / High Damping <input type="checkbox"/> No <sup>3</sup>
<b>FRONT SHOCK STRAPS:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>REAR SHOCK ABSORBER<sup>4</sup>:</b>	<input type="checkbox"/> Extended Service / High Damping <input type="checkbox"/> No
<b>REBOUND LIMITER<sup>5</sup>:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>SURELOK® READY:</b>	<input type="checkbox"/> Yes (AANT 23K models not equipped with ADB only) <input type="checkbox"/> No
<b>TRAVEL:</b>	<input type="checkbox"/> Standard <input type="checkbox"/> Ltd Jounce / Up-Travel <input type="checkbox"/> Ltd Rebound / Down-Travel <sup>6</sup> (Recommended for RCA)
<b>AIR SPRING:</b>	<input type="checkbox"/> Standard <input type="checkbox"/> Low Pressure (Optional for 23K models only) <input type="checkbox"/> ZMD® (Optional for AANT std. travel, 14" ride height only)
<b>HIGH CONTROL SUSPENSION<sup>7</sup>:</b> (Single axle / dolly application)	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>CHANNEL / GUSSET:</b>	<input type="checkbox"/> Standard <input type="checkbox"/> Bolt-on C-Channel <sup>8</sup> <input type="checkbox"/> Customer Supplied <input type="checkbox"/> Included <input type="checkbox"/> Other:

1. Suspension models are limited to a 25,000-pound axle rating.
2. Tapered frame bracket tapered is not available for ride heights 9-inches and lower.
3. Selection only permitted when rear shock absorbers are specified.
4. Rear shock absorbers are only available on AAL, AANL, AAEDT and AAEDL suspensions. Rear shocks are required for these models when equipped with air disc brakes.
5. Not available for top-mount models using air disc brakes (ADB).
6. Recommended for use with Raised-Center Axles (RCA). Available only on AAT models with 14, 16, or 18 inch ride heights, and AANT models with 14 or 16 inch ride heights. Not available on AAL models.
7. Refer to L667 High Control Flyer for more information.
8. Only available with bolt-on frame brackets. Struts included on certain models.

 **HENDRICKSON**

**SUSPENSION** (CONTINUED)

<b>BUSHING TUBE SPACER<sup>9</sup>:</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> Optional Cap Style (Cap style is required on tanker and logging trailers using AAT & AAL suspensions.)		
<b>FRAME BRACKET TO BEAM:</b>	<input type="checkbox"/> Assembled	<input type="checkbox"/> Non-Assembled		
<b>SUSPENSION PAINT OPTIONS:</b> Surface Coating — Axle/Beam Weldment: Surface Coverage — Frame Brackets:	<input type="checkbox"/> None	<input type="checkbox"/> Standard Black Primer	<input type="checkbox"/> Finished Soft Coat - Black	<input type="checkbox"/> Finished Soft Coat - Gray
	<input type="checkbox"/> Standard (same as surface coating)	<input type="checkbox"/> None / Do Not Paint Frame Brackets		<input type="checkbox"/> Galvanized <sup>10</sup>

**AXLE \*** \*Refer to "L846 — Wide Base Tire Configuration Bulletin" for Track / Wheel Recommendations

<b>STYLE:</b>	<input type="checkbox"/> Straight	<input type="checkbox"/> Cambered (Optional AANL / AAL / AANT / AAT)	<input type="checkbox"/> Raised Center <sup>6</sup> (AAT/AAL 23K and 25K Only; Ltd. Rebound travel recommended)				
<b>TRACK (inches):</b>	<input type="checkbox"/> 71.5	<input type="checkbox"/> 73	<input type="checkbox"/> 75.5	<input type="checkbox"/> 76.5	<input type="checkbox"/> 77.5	<input type="checkbox"/> 83.5	<input type="checkbox"/> 85
<b>SPINDLE:</b>	<input type="checkbox"/> HN	<input type="checkbox"/> HP					
<b>TIRE INFLATION SYSTEM<sup>11</sup> :</b>	<input type="checkbox"/> TIREMAAX <sup>®</sup> CP (Complete Worksheet on p. 8)		<input type="checkbox"/> TIREMAAX PRO (Complete Worksheet on p. 8)		<input type="checkbox"/> 3-Hole Prep	<input type="checkbox"/> No	



Are you ordering air disc brakes?  No (Continue on page 2)  Yes (Go to page 4)

**DRUM BRAKES \*** \*Slack and brake chamber combinations will affect brake ratings. Refer to L809 for Brake Certifications.

<b>BRAKE LINING:</b>	<input type="checkbox"/> H20			<input type="checkbox"/> H23		<input type="checkbox"/> H26	
<b>BRAKE SIZE:</b>	<input type="checkbox"/> 15" x 8-5/8" <sup>12</sup>	<input type="checkbox"/> 16.5" x 7"	<input type="checkbox"/> 16.5" x 8-5/8"	<input type="checkbox"/> 16.5" x 7"	<input type="checkbox"/> 16.5" x 8-5/8"	<input type="checkbox"/> 16.5" x 7"	<input type="checkbox"/> 16.5" x 8-5/8"
<b>BRAKE MODEL:</b>	HXS <sup>®</sup>	<input type="checkbox"/> Standard <input type="checkbox"/> HXS	HXS	<input type="checkbox"/> Standard <input type="checkbox"/> HXS	HXS	HXS	HXS
<b>BRAKE COATING:</b>	Standard	<input type="checkbox"/> Standard	<input type="checkbox"/> AAXTREME COAT <sup>®</sup> (HXS Only)	<input type="checkbox"/> Standard	<input type="checkbox"/> AAXTREME COAT (HXS Only)	Standard	
<b>BRAKE CHAMBERS:</b>	<input type="checkbox"/> None	<input type="checkbox"/> 2.5" Standard Stroke			<input type="checkbox"/> 3.0" Long Stroke		
<b>SIZE, WARRANTY, &amp; BRAND:</b>	<input type="checkbox"/> Type 30/30 Standard Warranty	<input type="checkbox"/> Type 30/30 Extended Warranty	<input type="checkbox"/> Type 24/24 Standard Warranty	<input type="checkbox"/> Other	<input type="checkbox"/> Type 30/30 Standard Warranty	<input type="checkbox"/> Type 30/30 Extended Warranty	
	<input type="checkbox"/> TSE <input type="checkbox"/> Haldex	<input type="checkbox"/> TSE <input type="checkbox"/> Haldex	Haldex		<input type="checkbox"/> TSE <input type="checkbox"/> Haldex	TSE	
<b>SLACK ADJUSTER:</b>	<input type="checkbox"/> None	<input type="checkbox"/> Haldex 5.5"	<input type="checkbox"/> Gunite 5.5"	<input type="checkbox"/> Haldex 6.0" (Long stroke chamber recommended)		<input type="checkbox"/> Gunite 6.0" (Long stroke chamber recommended)	
<b>S-CAM:</b>	<input type="checkbox"/> 28 Spline	<input type="checkbox"/> 10 Spline					
<b>CAM TUBE SYSTEM:</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> Severe Service <sup>13</sup>					
<b>DUST SHIELD:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes						
<b>ABS SENSOR:</b>	<input type="checkbox"/> No	<input type="checkbox"/> Haldex 19.7"	<input type="checkbox"/> WABCO 15.7"			<input type="checkbox"/> Bendix 14.84"	
<b>SPINDLE NUT:</b>	<input type="checkbox"/> No <input type="checkbox"/> Standard 3-Piece Nut						

9. The cap style bushing tube spacer is standard on the following models: AAEDT / AAEDL 30K, AAT / AAL 30K. It is an option on: AAT / AAL 23K, AAT / AAL 25K.

10. Galvanized coating option is only available with bolt-on frame brackets.

11. Refer to Hendrickson publication L583 Comprehensive Warranty Statement for complete details related to competitor tire inflation systems.

12. Only available for AAL 23K and AANLS 20K suspensions.

13. Designed for road input that cause excessive vibration such as rugged, secondary, off-road conditions.

**DRUM BRAKE RTR® READY-TO-ROLL® PACKAGES \***

\*Consult a customer service representative to ensure compatibility of the wheel-end equipment with the other selected suspension parameters.

	<input type="checkbox"/> <b>Standard Service</b> (1-Year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL3® Hendrickson Extended-Life System™</b> (3-Year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL5® Hendrickson Extended-Life System™</b> (5-Year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL7® Hendrickson Extended-Life System™</b> (7-Year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>ConMet PreSet®</b> (5-Year Limited Warranty <sup>14</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	HP	<input type="checkbox"/> HN <input type="checkbox"/> HP
<b>HUB MATERIAL:</b>	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub® <input type="checkbox"/> Aluminum	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Aluminum	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Aluminum	<input type="checkbox"/> Ductile Iron <input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Aluminum	Aluminum
<b>HUB STYLE:</b>	Hub Piloted	Hub Piloted	Hub Piloted	Hub Piloted	Hub Piloted
<b>NUMBER OF STUDS:</b>	10	10	10	10	10
<b>BOLT CIRCLE DIAMETER:</b>	11.25"	11.25"	11.25"	11.25"	11.25"
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum
<b>DUAL / SUPER SINGLE:</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>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease	Semi-Fluid Grease	<input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90
<b>SEAL:</b>	<input type="checkbox"/> Stemco Voyager <input type="checkbox"/> Stemco Discover <input type="checkbox"/> Stemco Guardian <input type="checkbox"/> Federal Mogul	Standard	Standard	Standard	No (ConMet Included)
<b>BEARING:</b>	Standard	Standard	Standard	Standard	No (ConMet Included)
<b>SPINDLE NUT:</b>	Standard 3-Piece Nut	PRECISION240® Nut System PRECISION320® Nut System <b>or</b>	PRECISION240 Nut System <b>or</b> PRECISION320 Nut System <b>or</b>	PRECISION320 Nut System	Standard 3-Piece Nut
<b>HUBCAP TYPE:</b>	Standard Bolt-On	Standard Aluminum Bolt-On	Standard Aluminum Bolt-On	Corrosion Resistant Bolt-On	Standard Bolt-On
<b>ABSTONE RING:</b>	Yes	Yes	Yes	Yes	Yes

**DRUM OPTIONS**

<b>DRUM MATERIAL:</b>	<input type="checkbox"/> Cast	<input type="checkbox"/> Fused
<b>DRUM DUTY:</b>	<input type="checkbox"/> Standard	<input type="checkbox"/> Heavy Duty
<b>DRUM BALANCING:</b>	Balanced	
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>15</sup>	<input type="checkbox"/> No

14. Refer to Hendrickson publication L583 Comprehensive Warranty Statement for complete details.

15. Two (2) wheel fasteners factory installed per wheel-end with balance packaged in plastic bag, taped and stretch-wrapped to each wheel-end.

**HENDRICKSON SUSPENSION AND AXLES AVAILABLE WITH AIR DISC BRAKES (ADB)**

SUSPENSION / AXLE MODELS	AVAILABILITY
AANT 23K	Requires unique HCV
AANLS 20K / AANL 23K	Requires rear mounted shocks and unique HCV
AAT 23K, 25K, 30K, RCA	ADB available without SURELOK – Requires unique HCV
AAL 23K, 25K, 30K	Requires rear mounted shocks
AAEDL/AAEDT 30K <sup>16</sup>	Requires rear mounted shocks

**⚠ WARNING:** IMPROPER WHEELS OR VALVE STEMS can interfere with air disc brakes and cause rapid tire deflation, component damage, loss of vehicle control, property damage or severe personal injury. Use only wheels and valve stems that provide proper running clearance with air disc brakes equipped on the suspension. Contact vehicle manufacturer to determine replacement wheels and valve stems approved for the application.

DISC BRAKES *	*Please refer to L1225 at www.hendrickson-intl.com for more important information to consider when spec'ing air disc brakes.			
	HENDRICKSON MAXX22T™ ADB (Hendrickson Standard)			
<b>CONVERTER DOLLY APPLICATION:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes (Service Only Chamber Available)			
<b>DISC BRAKE APPROVAL:</b>	<input type="checkbox"/> Approval: 20,000 lb or less GAWR <b>or</b> up to 23,000 lb GAWR with appropriate tire SLR (See L809 for all Brake Certifications)			
<b>PAD/LINING:</b>	WABCO 233			
<b>BRAKE CHAMBER:</b>	<input type="checkbox"/> WABCO 18/24 Std <input type="checkbox"/> WABCO 18 (Dolly)			
<b>ABS TONE RING / DUST SHIELD:</b>	Required			
<b>ABS SENSORS (Required):</b>	<input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Bendix 78.7" <input type="checkbox"/> Haldex 19.7" <input type="checkbox"/> Haldex 78.7" <input type="checkbox"/> WABCO 39.4"			
<b>ROTOR BRAND/MATERIAL:</b>	415mm Cast Iron	415mm Cast Iron	415mm Cast Iron	415mm Cast Iron
<b>RTR® READY-TO-ROLL® WHEEL-END PACKAGES:</b>	<input type="checkbox"/> Standard Service (1-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> HXL3® Hendrickson Extended-Life System™ (3-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> HXL5® Hendrickson Extended-Life System™ (5-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> HXL7® Hendrickson Extended-Life System™ (7-year Limited Warranty <sup>14</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	HP
<b>HUB MATERIAL:</b>	<input type="checkbox"/> Dura-Light Hub® <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Ductile Iron	<input type="checkbox"/> Dura-Light Hub <input type="checkbox"/> Ductile Iron
<b>HUB STYLE:</b>	Hub-Piloted x 10-stud x 11.25" BC for 22.5" and 24.5" tires			
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum
<b>DUAL / SUPER SINGLE: (SS) Short Stud (LS) Long Stud</b>	<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>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease	Semi-Fluid Grease
<b>SEAL:</b>	Standard	Standard	Standard	Standard
<b>BEARINGS:</b>	Standard	Standard	Standard	Standard
<b>SPINDLE NUT:</b>	Standard 3-Piece Nut	PRECISION240® Nut System PRECISION320® Nut System <b>or</b>	PRECISION240 Nut System PRECISION320 Nut System <b>or</b>	PRECISION320 Nut System
<b>HUBCAP TYPE:</b>	Standard Bolt-On	Standard Aluminum Bolt-On	Standard Aluminum Bolt-On	Corrosion Resistant Bolt-On
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>15</sup> <input type="checkbox"/> No			

16. Not available with Hendrickson MAXX22T.

DISC BRAKES *		*Please refer to L1225 at www.hendrickson-intl.com for more important information to consider when spec'ing air disc brakes.				
		WABCO PAN22-1 ADB				
<b>CONVERTER DOLLY APPLICATION:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes (Service Only Chamber Available)					
<b>DISC BRAKE APPROVAL: (Must select one)</b>	<input type="checkbox"/> Preapproval: 20,000 lb or less GAWR <b>or</b>					
	<input type="checkbox"/> Online Approval # _____ <b>or</b>					
	<input type="checkbox"/> Complete ADB Waiver on page 9 <b>or</b>					
	<input type="checkbox"/> Complete ADB Application Form on page 9					
<b>PAD/LINING:</b>	WABCO 230					
<b>BRAKE CHAMBER:</b>	<input type="checkbox"/> WABCO 20/24 Std <input type="checkbox"/> WABCO 20 (Dolly)					
<b>ABS TONE RING / DUST SHIELD:</b>	Required					
<b>ABS SENSORS (Required):</b>	<input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Bendix 78.7" <input type="checkbox"/> Haldex 19.7" <input type="checkbox"/> Haldex 78.7" <input type="checkbox"/> WABCO 39.4"					
<b>ROTOR BRAND/MATERIAL:</b>	430mm Cast Iron	430mm Cast Iron	430mm Cast Iron	430mm Cast Iron	430mm ConMet Cast Iron	
<b>RTR® READY-TO-ROLL® WHEEL-END PACKAGES:</b>	<input type="checkbox"/> <b>Standard Service</b> (1-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL3® Hendrickson Extended-Life System™</b> (3-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL5® Hendrickson Extended-Life System™</b> (5-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL7® Hendrickson Extended-Life System™</b> (7-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>ConMet PreSet</b> (5-year Limited Warranty <sup>14</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	HP	<input type="checkbox"/> HN <input type="checkbox"/> HP	
<b>HUB MATERIAL:</b>	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	ConMet Aluminum	
<b>HUB STYLE:</b>	Hub-Piloted x 10-stud x 11.25" BC for 22.5" and 24.5" tires					
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	
<b>DUAL / SUPER SINGLE: (SS) Short Stud (LS) Long Stud</b>	<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>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease	Semi-Fluid Grease	<input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90	
<b>SEAL:</b>	Standard	Standard	Standard	Standard	No (ConMet Included)	
<b>BEARINGS:</b>	Standard	Standard	Standard	Standard	No (ConMet Included)	
<b>SPINDLE NUT:</b>	Standard 3-Piece Nut	PRECISION240® Nut System PRECISION320® Nut System <b>or</b>	PRECISION240 Nut System PRECISION320 Nut System <b>or</b>	PRECISION320 Nut System	Standard 3-Piece Nut	
<b>HUBCAP TYPE:</b>	Standard Bolt-On	Standard Aluminum Bolt-On	Standard Aluminum Bolt-On	Corrosion Resistant Bolt-On	Standard Bolt-On	
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>15</sup> <input type="checkbox"/> No					

DISC BRAKES *		KNORR / BENDIX ADB22X					
<b>CONVERTER DOLLY APPLICATION:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes (STOP. ADB22X is not approved for dollies. Must spec MAXX22T™ or PAN22-1)						
<b>DISC BRAKE APPROVAL: (Must select one)</b>	<input type="checkbox"/> Preapproval: Tandem Trailer – 80,000 lb GCW Max, Tridem Trailer – 98,000 GCW <b>or</b>						
	<input type="checkbox"/> Online Approval # _____ <b>or</b>						
	<input type="checkbox"/> Complete ADB Waiver on page 9 <b>or</b>						
	<input type="checkbox"/> Complete ADB Application Form on page 9						
<b>PAD/LINING:</b>	Jurid 539-29						
<b>BRAKE CHAMBER:</b>	Knorr 18/24 Std						
<b>ABS TONE RING / DUST SHIELD:</b>	Required						
<b>ABS SENSORS (Required):</b>	<input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Bendix 78.7" <input type="checkbox"/> Haldex 19.7" <input type="checkbox"/> Haldex 78.7" <input type="checkbox"/> WABCO 39.4"						
<b>ROTOR BRAND/MATERIAL:</b>	430mm Knorr Cast Iron	430mm Knorr Cast Iron	430mm Knorr Cast Iron	430mm Knorr Cast Iron	430mm Knorr Cast Iron	430mm ConMet Cast Iron	
<b>RTR® READY-TO-ROLL® WHEEL-END PACKAGES:</b>	<input type="checkbox"/> <b>Standard Service</b> (1-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL3® Hendrickson Extended-Life System™</b> (3-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL5® Hendrickson Extended-Life System™</b> (5-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>HXL7® Hendrickson Extended-Life System™</b> (7-year Limited Warranty <sup>14</sup> )	<input type="checkbox"/> <b>ConMet PreSet</b> (5-year Limited Warranty <sup>14</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	HP	<input type="checkbox"/> HN <input type="checkbox"/> HP		
<b>HUB MATERIAL:</b>	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron	<input type="checkbox"/> ConMet AL Splined	<input type="checkbox"/> ConMet Ductile Iron (HP Only) <input type="checkbox"/> ConMet Aluminum	
<b>HUB STYLE:</b>	Hub-Piloted x 10-stud x 11.25" BC for 22.5" and 24.5" tires						
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	<input type="checkbox"/> Aluminum <input type="checkbox"/> Steel <input type="checkbox"/> Steel / Aluminum	
<b>DUAL / SUPER SINGLE: (SS) Short Stud (LS) Long Stud</b>	<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)	<input type="checkbox"/> Dual <input type="checkbox"/> Super Single (SS) <input type="checkbox"/> Super Single (LS)	
<b>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90	<input type="checkbox"/> SAE 80/90 <input type="checkbox"/> Synthetic 75W/90	Semi-Fluid Grease	Semi-Fluid Grease	<input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Synthetic 75W/90		
<b>SEAL:</b>	Standard	Standard	Standard	Standard	No (ConMet Included)		
<b>BEARINGS:</b>	Standard	Standard	Standard	Standard	No (ConMet Included)		
<b>SPINDLE NUT:</b>	Standard 3-Piece Nut	PRECISION240® Nut System PRECISION320® Nut System <b>or</b>	PRECISION240 Nut System PRECISION320 Nut System <b>or</b>	PRECISION320 Nut System	Standard 3-Piece Nut		
<b>HUBCAP TYPE:</b>	Standard Bolt-On	Standard Aluminum Bolt-On	Standard Aluminum Bolt-On	Corrosion Resistant Bolt-On	Standard Bolt-On		
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>15</sup> <input type="checkbox"/> No						

<b>DISC BRAKES *</b>		<b>WABCO PAN19-1 ADB (for use with 19.5" wheels)</b>		
<b>CONVERTER DOLLY APPLICATION:</b>	<input type="checkbox"/> No <input type="checkbox"/> Yes (Service Only Chamber Available)			
<b>DISC BRAKE APPROVAL: (Must select one)</b>	<input type="checkbox"/> Preapproval: 20,000 lb or less GAWR <b>or</b>			
	<input type="checkbox"/> Online Approval # _____ <b>or</b>			
	<input type="checkbox"/> Complete ADB Waiver on page 9 <b>or</b>			
	<input type="checkbox"/> Complete ADB Application Form on page 9			
<b>PAD/LINING:</b>	WABCO 230			
<b>BRAKE CHAMBER:</b>	<input type="checkbox"/> WABCO 16/24 Std		<input type="checkbox"/> WABCO 16 (Dolly)	
<b>ABSTONE RING / DUST SHIELD:</b>	Required			
<b>ABS SENSORS (Required):</b>	<input type="checkbox"/> Bendix 14.84" <input type="checkbox"/> Bendix 78.7" <input type="checkbox"/> Haldex 19.7" <input type="checkbox"/> Haldex 78.7" <input type="checkbox"/> WABCO 39.4"			
<b>ROTOR BRAND/MATERIAL:</b>	375mm Cast Iron		375mm Cast Iron	
<b>RTR® READY-TO-ROLL® WHEEL-END PACKAGES:</b>	<input type="checkbox"/> <b>Standard Service</b> (1-year Limited Warranty <sup>14</sup> )		<input type="checkbox"/> <b>HXL3® Hendrickson Extended-Life System™</b> (3-year Limited Warranty <sup>14</sup> )	
<b>SPINDLE:</b>	<input type="checkbox"/> HN <input type="checkbox"/> HP		<input type="checkbox"/> HN <input type="checkbox"/> HP	
<b>HUB MATERIAL:</b>	Ductile Iron		Ductile Iron	
<b>HUB STYLE:</b>	Hub-Piloted x 10-stud x 11.25" BC for 19.5" tires			
<b>WHEEL MATERIAL:</b>	<input type="checkbox"/> Aluminum		<input type="checkbox"/> Aluminum	
	<input type="checkbox"/> Steel		<input type="checkbox"/> Steel	
	<input type="checkbox"/> Steel / Aluminum		<input type="checkbox"/> Steel / Aluminum	
<b>DUAL / SUPER SINGLE: (SS) Short Stud (LS) Long Stud</b>	<input type="checkbox"/> Dual		<input type="checkbox"/> Dual	
	<input type="checkbox"/> Super Single (SS)		<input type="checkbox"/> Super Single (SS)	
	<input type="checkbox"/> Super Single (LS)		<input type="checkbox"/> Super Single (LS)	
<b>LUBE TYPE:</b>	<input type="checkbox"/> SAE 80/90		<input type="checkbox"/> SAE 80/90	
	<input type="checkbox"/> Semi-Fluid Grease		<input type="checkbox"/> Synthetic 75W/90	
	<input type="checkbox"/> Synthetic 75W/90		Semi-Fluid Grease	
<b>SEAL:</b>	Standard		Standard	
<b>BEARINGS:</b>	Standard		Standard	
<b>SPINDLE NUT:</b>	Standard 3-Piece Nut		PRECISION240® Nut System PRECISION320® Nut System <b>or</b>	
<b>HUBCAP TYPE:</b>	Standard Bolt-On		Standard Aluminum Bolt-On	
<b>WHEEL FASTENERS:</b>	<input type="checkbox"/> Yes <sup>15</sup> <input type="checkbox"/> No			

<b>ACCESSORY ITEMS</b>	Not included in INTRAAX® Model Number — Sold Separately			
<b>HEIGHT CONTROL VALVE:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<b>Integral Dump:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>MANUAL DUMP VALVE:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<b>With Enclosure:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>UNIVERSAL LOAD SCALE KIT:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
<b>UBL™ UNDER BEAM LIFT™17:</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No		

<b>TIREMAAX® KIT WORKSHEET<sup>18,19</sup></b>	
<b>CONTROLLER TYPE:</b>	<input type="checkbox"/> CP <input type="checkbox"/> PRO
<b>ELECTRICAL CONNECTION:</b>	<input type="checkbox"/> Delphi Weather Pack (Standard) <input type="checkbox"/> Blade Terminals <sup>20</sup> (Hendrickson Controls approval required)
<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"/> Hendrickson Bolt-On <input type="checkbox"/> Hendrickson Extended Bolt-On <sup>21</sup>
<b>LUBE TYPE:</b>	<input type="checkbox"/> Semi-Fluid Grease <input type="checkbox"/> Oil
<b>WHEEL STYLE / MATERIAL:</b>	<input type="checkbox"/> Dual / Aluminum <input type="checkbox"/> Dual / Steel or Combo <input type="checkbox"/> Super Single / Aluminum (straight hose) <input type="checkbox"/> Super Single / Steel (outboard valve stem; 180-degree hose) <input type="checkbox"/> Super Single / Steel (inboard valve stem; straight hose)
<b>TIRE SIZE:</b>	<input type="checkbox"/> 17.5" <input type="checkbox"/> 19.5" <input type="checkbox"/> 22.5" <input type="checkbox"/> 24.5"
<b>COLD TIRE PRESSURE SETTING (psi)<sup>22:</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 LIGHT KIT:</b>	<input type="checkbox"/> LED – 12V with 65-foot Cable (Standard) <input type="checkbox"/> LED – 12V with 35-foot Cable <input type="checkbox"/> LED – 24V (Export <sup>23</sup> ) <input type="checkbox"/> Incandescent – 12V <input type="checkbox"/> No <sup>20</sup>
<b>WIRING HARNESS:</b>	<input type="checkbox"/> Premium, 15-Foot, ABS-ready <input type="checkbox"/> Premium, 3-Foot, ABS-ready <input type="checkbox"/> Standard, 18-inch, Wiring Adapter Plug <input type="checkbox"/> No <sup>20</sup> (Hendrickson Controls approval required)
<b>AIR PLUMBING KIT:</b>	<input type="checkbox"/> Manifold <sup>24</sup> <input type="checkbox"/> No
<b>CONTROLLER TANK VALVE<sup>25:</sup></b> (Pressure Check)	<input type="checkbox"/> Yes (CP Models Only) <input type="checkbox"/> No

17. When selecting a UBL, its operating limitations may vary depending upon the suspension model, ride height and application. In some cases, a lift is only recommended for lifting an unloaded trailer. Contact Hendrickson for assistance.
18. Hendrickson does not provide warranty coverage for the installation, performance or components of a competitor brand tire inflation system installed on a Hendrickson suspension or trailer axle. Any consequential damages to the Hendrickson suspension or 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 customer, should be directed to the respective tire inflation system manufacturer for warranty coverage.
19. When installing TIREMAAX, please contact Hendrickson to verify correct wheel-end component integration.
20. Controllers featuring blade terminals, require the light kit and wiring harness options to be "no".
21. Required for axles with TIREMAAX PRO equipped with cross-drilled spindles and using the castellated spindle nut. Please verify spindle nut requirements.
22. Refer to tire manufacturer's recommended tire pressure. TIREMAAX PRO is restricted to cold tire pressure setting of 85-120 psi.
23. Please note, 12V is used in some export countries. If this is a new venture into a foreign country, please validate voltage requirements with Controls Engineering.
24. Not available for single-axle systems.
25. Not available with TIREMAAX PRO.



**STOP** Complete the **AIR DISC BRAKE WAIVER** or **APPLICATION FORM** if you did not check **PRE-APPROVED** or **ONLINE APPROVAL** on page 5, 6, or 7.

**CAUTION:** DUE to design and performance differences of various air disc brake models, and between drum and disc brake systems, it is important to ensure compatibility of the brake systems between the tractor and trailer. Changes to the tractor brake linings may be required to produce a balanced tractor / trailer braking system. Vehicle owners / operators should review any such required changes with the tractor manufacturer. Failure to follow any such required changes or applicable operating, service and maintenance instructions can cause tractor / trailer brake components to wear out prematurely and will void any applicable Hendrickson warranty coverage.

**AIR DISC BRAKE WAIVER**

**ADDITIONAL TERMS AND CONDITIONS**

This Ordering Guide / Application Form is subject to, at minimum, the following terms and conditions:

- Any application approval from Hendrickson Trailer Suspension Systems ("Hendrickson") and/or the respective air disc brake manufacturer is (i) general in nature, (ii) based upon the above-referenced information as provided by the REQUESTER and without Hendrickson's first-hand knowledge of such information, and (iii) does not account for any additional information regarding the subject vehicle's operating condition and configuration, or any unauthorized modifications or repairs that may have been conducted.
- The subject application(s) and the installation, operation, service and maintenance of Hendrickson suspension or axle systems and related components must comply with all applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson, the tractor, the trailer and the respective air disc brake manufacturer. Contact Hendrickson, the tractor, the trailer and the respective air disc brake manufacturer for any additional copies of their applicable written materials.
- Any application approval does not account for, nor shall Hendrickson in way be responsible for, any adverse effect on the form, fit or function of or any damages sustained to the Hendrickson suspension or axle systems and related components due to improper installation, operation, service or maintenance, unauthorized modification, neglect, accident, misuse, or operation beyond the written capacity ratings and specifications of the suspension or axle systems and related components or the vehicle to which such equipment and components are attached.
- Any application approval is null and void if (i) any of the information provided by the REQUESTER is incorrect or incomplete, or (ii) there is any deviation from the applicable written capacity ratings, specifications, instructions and guidelines from Hendrickson and the respective air disc brake manufacturer regarding the installation, operation, service and maintenance of the Hendrickson suspension or axle systems and related components.
- Any application approval does not constitute an expressed or implied warranty, including any warranty of merchantability or fitness for a particular purpose.
- Hendrickson reserves the right to modify any application approval, and any recommendations and/or prices if the above-referenced information provided by the REQUESTER changes in any way. The REQUESTER shall immediately notify Hendrickson's Application Engineering Department in writing of any / all changes in such information that may affect the operation, performance, service and/or maintenance of the vehicle, brakes.

I understand the above, and by signing and not supplying information on the application form on page 9, I am:

- Requesting an air disc brake suspension or axle model number, price and availability, and
- Taking responsibility for the application of the brake system if I order a suspension or axle model without supplying the information on the application form on page 9.

**REQUESTER:**  
**Authorized Contact Person:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**AIR DISC BRAKE APPLICATION FORM**

**FLEET / END USER INFORMATION**

Fleet Name / Dealer: \_\_\_\_\_ Location: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
 Email: \_\_\_\_\_

Trailer Manufacturer: \_\_\_\_\_

Trailer Type:  Dry Van  Reefer  Pup Trailers  
 Tanker / Bulk  Platform  Specialty  
 Dump  Dolly  Other

Number of Axles:  1  2  3  Other \_\_\_\_\_

Tagged Axle Weight: \_\_\_\_\_ GCW: \_\_\_\_\_

Wheel Make: \_\_\_\_\_ Wheel Model #: \_\_\_\_\_  
 Tire Make: \_\_\_\_\_ Tire Model: \_\_\_\_\_

**TRAILER USAGE**

**Duty Cycle: (check all that apply)**

<input type="checkbox"/> Line Haul Truck Load	<input type="checkbox"/> Line Haul LTL
<input type="checkbox"/> Line Haul Contract Carrier	<input type="checkbox"/> On-highway
<input type="checkbox"/> On-highway, Heavy-haul / Specialty	<input type="checkbox"/> Other _____
<input type="checkbox"/> On- / Off-highway Construction / Heavy-haul	
<input type="checkbox"/> Off-highway Logging / Mining / Construction	

**The above-reference trailer(s) will be used with:**

<input type="checkbox"/> Disc brake tractors only	<input type="checkbox"/> Drum brake tractors only
<input type="checkbox"/> Both disc and brake tractors	

Call your trailer dealer or Hendrickson at **330.489.0045** or **866.RIDEAIR (743.3247)** for additional information.



[www.hendrickson-intl.com](http://www.hendrickson-intl.com)

**TRAILER COMMERCIAL VEHICLE SYSTEMS**

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**Hendrickson Mexicana**

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