


MaterialHandling.com

1415 Davis Rd Elgin, IL 60123

Powered by Premier Handling Solutions, Inc.

materialhandling.com | (855) 719-1415 | sales@materialhandling.com

AHSN-Series Knockdown, Steel, Adjustable-Height Cranes



Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

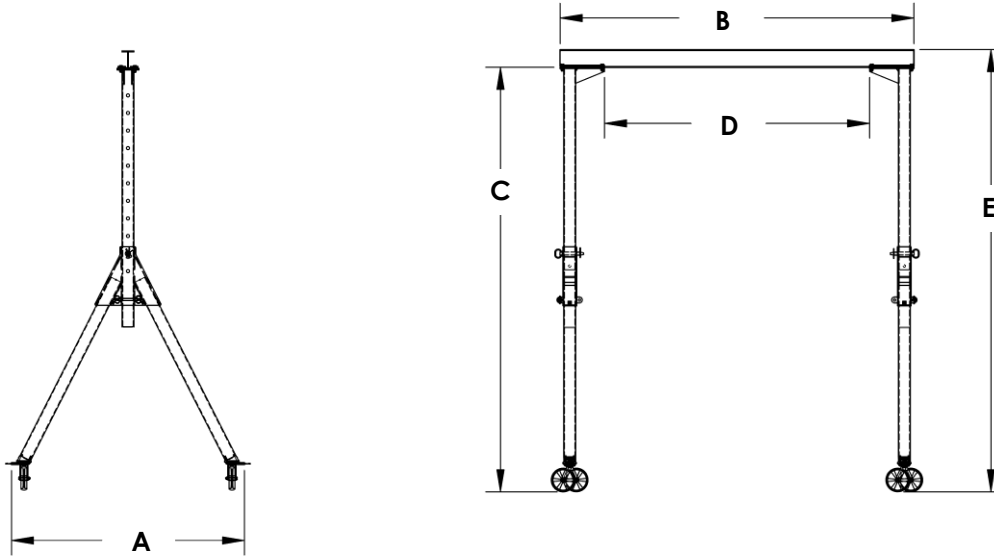
Electronic copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>.

Table of Contents	Page	Table of Figures	Page
Specifications.....	2, 3	Fig. A Exploded View: AHSN-2-10-12, 2-10-14, & 2-10-16...	5
Signal Words.....	4	Fig. B Exploded View AHSN-2-15 series.....	6
Safety Instructions.....	4	Fig. C Exploded View AHSN-2-20-12, 2-20-14, & 2-20-16...	7
Assembling the Crane.....	18, 19, 20, 21	Fig. D Exploded View AHSN-4-10-12, 4-10-14, & 4-10-16...	8
Using the Crane.....	22, 23	Fig. E Exploded View AHSN-4-15 series.....	9
Festoon Kit.....	23	Fig. F Exploded View AHSN-4-20-12, 4-20-14, & 4-20-16...	10
Record of Satisfactory Condition.....	24	Fig. G Exploded View AHSN-6-10-12, 6-10-14, & 6-10-16...	11
National Standards.....	24	Fig. H Exploded View AHSN-6-15 series.....	12
Inspections & Maintenance..	24	Fig. I Exploded View AHSN-6-20-12, 6-20-14, & 6-20-16....	13
Labeling Diagram.....	25	Fig. J Exploded View AHSN-8-10-12, 8-10-14, & 8-10-16....	14
Limited Warranty.....	26	Fig. K Exploded view AHSN-8-15 series.....	15
		Fig. L Exploded view AHSN-8-20-12, 8-20-14, & 8-20-16....	16
		Fig. M Exploded view AHSN-10-15-10.....	17

SPECIFICATIONS

Dimensions, net weight, and capacity information for each AHSN-series crane are provided in the tables on pages 2 & 3. However, product design changes might alter specifications, particularly dimensions and net weight, for 1 or more model. Specifications documents for AHS-series cranes are provided on Vestil's website. To access the appropriate specifications document, navigate to the relevant webpage: <https://www.vestil.com/product.php?FID=518>. Click the "Product Specifications Table" drop-down menu bar partway down the page. Scroll down to the entry for the model you purchased and click the button in the column titled "PDF's" that looks like a pencil inside a box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document. **NOTE:** 1 or more models listed in the following table might be discontinued between revisions of this manual.



Model	A: Overall width	B: Overall Beam Length	C: Height to bottom of beam	D: Usable beam length	E: Overall height	Capacity	Net Weight
AHSN-2-10-12	79 ³ / ₄ in. 203 cm	119 ³ / ₄ in. 304 cm	143 ⁷ / ₈ in. 365 cm	89 ³ / ₄ in. 228 cm	149 ⁷ / ₈ in. 381 cm	2,000 lb. 909 kg	796 lb. 362kg
AHSN-2-10-14	91 ¹ / ₂ in. 232 cm	119 ³ / ₄ in. 304 cm	167 ⁷ / ₁₆ in. 425 cm	89 ³ / ₄ in. 228 cm	173 ⁷ / ₁₆ in. 441 cm	2,000 909 kg	872 lb. 396.4 kg
AHSN-2-10-16	91 ¹ / ₂ in. 232 cm	119 ³ / ₄ in. 304 cm	191 ⁷ / ₁₆ in. 486 cm	89 ³ / ₄ in. 228 cm	197 ⁷ / ₁₆ in. 501.5 cm	2,000 909 kg	921 lb. 418.6 kg
AHSN-2-15-7	50 in. 127 cm	179 ³ / ₄ in. 457 cm	84 ¹ / ₈ in. 214 cm	149 ³ / ₄ in. 380 cm	90 ¹ / ₈ in. 229 cm	2,000 909 kg	663 lb. 301.4 kg
AHSN-2-15-9	61 ⁷ / ₈ in. 157 cm	179 ³ / ₄ in. 457 cm	108 ³ / ₈ in. 275 cm	149 ³ / ₄ in. 380 cm	114 ⁷ / ₁₆ in. 291 cm	2,000 909 kg	741 lb. 336.8 kg
AHSN-2-15-10	67 ¹³ / ₁₆ in. 172 cm	179 ³ / ₄ in. 457 cm	120 ³ / ₈ in. 306 cm	149 ³ / ₄ in. 380 cm	126 ³ / ₈ in. 321 cm	2,000 909 kg	779 lb. 354 kg
AHSN-2-15-12	79 ³ / ₄ in. 203 cm	179 ³ / ₄ in. 457 cm	143 ⁷ / ₈ in. 365 cm	149 ³ / ₄ in. 380 cm	149 ⁷ / ₈ in. 381 cm	2,000 909 kg	856 lb. 389.1 kg
AHSN-2-15-14	91 ¹ / ₂ in. 232 cm	179 ³ / ₄ in. 457 cm	167 ⁷ / ₁₆ in. 425 cm	149 ³ / ₄ in. 380 cm	173 ⁷ / ₁₆ in. 441 cm	2,000 909 kg	932 lb. 424 kg
AHSN-2-15-16	91 ¹ / ₂ in. 232 cm	179 ³ / ₄ in. 457 cm	191 ⁷ / ₁₆ in. 486 cm	149 ³ / ₄ in. 380 cm	197 ⁷ / ₁₆ in. 501.5 cm	2,000 909 kg	981 lb. 446 kg
AHSN-2-20-12	79 ³ / ₄ in. 203 cm	239 ³ / ₄ in. 609 cm	143 ⁷ / ₈ in. 365 cm	209 ³ / ₄ in. 533 cm	149 ⁷ / ₈ in. 381 cm	2,000 909 kg	917 lb. 416.6 kg
AHSN-2-20-14	91 ¹ / ₂ in. 232 cm	239 ³ / ₄ in. 609 cm	167 ⁷ / ₁₆ in. 425 cm	209 ³ / ₄ in. 533 cm	173 ⁷ / ₁₆ in. 441 cm	2,000 909 kg	993 lb. 451.3 kg
AHSN-2-20-16	91 ¹ / ₂ in. 232 cm	239 ³ / ₄ in. 609 cm	191 ⁷ / ₁₆ in. 486 cm	209 ³ / ₄ in. 533 cm	197 ⁷ / ₁₆ in. 501.5 cm	2,000 909 kg	1041 lb. 473.4 kg
AHSN-4-10-12	79 ³ / ₄ in. 203 cm	119 ³ / ₄ in. 304 cm	144 ⁷ / ₈ in. 368 cm	89 ³ / ₄ in. 228 cm	149 ⁷ / ₈ in. 381 cm	4,000 1,818 kg	796 lb. 362kg
AHSN-4-10-14	91 ¹ / ₂ in. 232 cm	119 ³ / ₄ in. 304 cm	168 ⁷ / ₁₆ in. 427.3 cm	89 ³ / ₄ in. 228 cm	173 ⁷ / ₁₆ in. 441 cm	4,000 1,818 kg	872 lb. 396.4 kg
AHSN-4-10-16	91 ¹ / ₂ in. 232 cm	119 ³ / ₄ in. 304 cm	192 ⁷ / ₁₆ in. 488.8 cm	89 ³ / ₄ in. 228 cm	197 ⁷ / ₁₆ in. 501.5 cm	4,000 1,818 kg	921.6 lb. 418.5 kg

AHSN-4-15-7	50 in. 127 cm	179 ³ / ₄ in. 457 cm	85 ¹ / ₈ in. 216.2 cm	149 ³ / ₄ in. 380 cm	92 ³ / ₁₆ in. 234 cm	4,000 1,818 kg	708 lb. 322 kg
AHSN-4-15-9	61 ⁷ / ₈ in. 157 cm	179 ³ / ₄ in. 457 cm	109 ³ / ₈ in. 277.8 cm	149 ³ / ₄ in. 380 cm	116 ¹ / ₂ in. 296 cm	4,000 1,818 kg	786 lb. 357.2 kg
AHSN-4-15-10	67 ¹³ / ₁₆ in. 172 cm	179 ³ / ₄ in. 457 cm	121 ³ / ₈ in. 308.3 cm	149 ³ / ₄ in. 380 cm	128 ¹ / ₂ in. 326 cm	4,000 1,818 kg	824 lb. 374.7 kg
AHSN-4-15-12	79 ³ / ₄ in. 203 cm	179 ³ / ₄ in. 457 cm	144 ⁷ / ₈ in. 368 cm	149 ³ / ₄ in. 380 cm	151 ¹⁵ / ₁₆ in. 386 cm	4,000 1,818 kg	901 lb. 409.7 kg
AHSN-4-15-14	91 ¹ / ₂ in. 232 cm	179 ³ / ₄ in. 457 cm	168 ⁷ / ₁₆ in. 427.8 cm	149 ³ / ₄ in. 380 cm	175 ⁹ / ₁₆ in. 446 cm	4,000 1,818 kg	978 lb. 444.4 kg
AHSN-4-15-16	91 ¹ / ₂ in. 232 cm	179 ³ / ₄ in. 457 cm	192 ⁷ / ₁₆ in. 488.8 cm	149 ³ / ₄ in. 380 cm	199 ⁹ / ₁₆ in. 507 cm	4,000 1,818 kg	1026 lb. 466.5 kg
AHSN-4-20-12	79 ³ / ₄ in. 203 cm	239 ³ / ₄ in. 609 cm	144 ⁷ / ₈ in. 368 cm	209 ³ / ₄ in. 533 cm	151 ¹⁵ / ₁₆ in. 386 cm	4,000 1,818 kg	977 lb. 444 kg
AHSN-4-20-14	91 ¹ / ₂ in. 232 cm	239 ³ / ₄ in. 609 cm	168 ⁷ / ₁₆ in. 427.8 cm	209 ³ / ₄ in. 533 cm	174 ³ / ₈ in. 79.3 cm	4,000 1,818 kg	1,053 lb. 478.8kg
AHSN-4-20-16	91 ¹ / ₂ in. 232 cm	239 ³ / ₄ in. 609 cm	192 ⁷ / ₁₆ in. 488.8 cm	209 ³ / ₄ in. 533 cm	199 ⁹ / ₁₆ in. 507 cm	4,000 1,818 kg	1,102 lb. 500.8 kg
AHSN-6-10-12	76 ¹ / ₄ in. 194 cm	119 ³ / ₄ in. 304 cm	145 ³ / ₈ in. 369 cm	89 ³ / ₄ in. 228 cm	153 ⁷ / ₁₆ in. 389.7 cm	6,000 2,727 kg	895 lb. 406.8 kg
AHSN-6-10-14	88 in. 224 cm	119 ³ / ₄ in. 304 cm	168 ¹⁵ / ₁₆ in. 425 cm	89 ³ / ₄ in. 228 cm	177 ¹ / ₁₆ in. 450 cm	6,000 2,727 kg	973 lb. 442.6 kg
AHSN-6-10-16	88 in. 224 cm	119 ³ / ₄ in. 304 cm	192 ¹⁵ / ₁₆ in. 490 cm	89 ³ / ₄ in. 228 cm	201 ¹ / ₁₆ in. 511 cm	6,000 2,727 kg	1,022 lb. 464.6 kg
AHSN-6-15-7	46 ¹ / ₂ in. 118 cm	179 ³ / ₄ in. 457 cm	85 ⁵ / ₈ in. 217.5 cm	149 ³ / ₄ in. 380 cm	95 ¹¹ / ₁₆ in. 243 cm	6,000 2,727 kg	800 lb. 363.6 kg
AHSN-6-15-9	58 ³ / ₈ in. 148 cm	179 ³ / ₄ in. 457 cm	109 ⁵ / ₈ in. 278 cm	149 ³ / ₄ in. 380 cm	119 ³ / ₄ in. 304 cm	6,000 2,727 kg	880 lb. 400 kg
AHSN-6-15-10	64 ⁵ / ₁₆ in. 163 cm	179 ³ / ₄ in. 457 cm	121 ⁹ / ₁₆ in. 309 cm	149 ³ / ₄ in. 380 cm	131 ¹¹ / ₁₆ in. 334.5 cm	6,000 2,727 kg	920 lb. 418 kg
AHSN-6-15-12	76 ¹ / ₄ in. 194 cm	179 ³ / ₄ in. 457 cm	145 ³ / ₈ in. 369 cm	149 ³ / ₄ in. 380 cm	155 ⁷ / ₁₆ in. 395 cm	6,000 2,727 kg	999 lb. 454 kg
AHSN-6-15-14	88 in. 224 cm	179 ³ / ₄ in. 457 cm	168 ¹⁵ / ₁₆ in. 425 cm	149 ³ / ₄ in. 380 cm	179 ¹ / ₁₆ in. 455 cm	6,000 2,727 kg	1,077 lb. 489.7 kg
AHSN-6-15-16	88 in. 224 cm	179 ³ / ₄ in. 457 cm	192 ¹⁵ / ₁₆ in. 490 cm	149 ³ / ₄ in. 380 cm	203 ¹ / ₁₆ in. 516 cm	6,000 2,727 kg	1,126 lb. 511.8 kg
AHSN-6-20-12	76 ¹ / ₄ in. 194 cm	239 ³ / ₄ in. 609 cm	145 ³ / ₈ in. 369 cm	209 ³ / ₄ in. 533 cm	155 ⁷ / ₁₆ in. 395 cm	6,000 2,727 kg	1,084 lb. 492.6 kg
AHSN-6-20-14	88 in. 224 cm	239 ³ / ₄ in. 609 cm	168 ¹⁵ / ₁₆ in. 425 cm	209 ³ / ₄ in. 533 cm	179 ¹ / ₁₆ in. 455 cm	6,000 2,727 kg	1,162 lb. 528.3 kg
AHSN-6-20-16	88 in. 224 cm	239 ³ / ₄ in. 609 cm	203 ¹ / ₁₆ in. 516 cm	209 ³ / ₄ in. 533 cm	192 ¹⁵ / ₁₆ in. 490 cm	6,000 2,727 kg	1,211 lb. 550.4 kg
AHSN-8-10-12	76 ¹ / ₄ in. 194 cm	119 ³ / ₄ in. 304 cm	145 ³ / ₈ in. 369 cm	89 ³ / ₄ in. 228 cm	153 ⁷ / ₁₆ in. 389.7 cm	8,000 3,636 kg	895 lb. 406.8 kg
AHSN-8-10-14	88 in. 224 cm	119 ³ / ₄ in. 304 cm	168 ¹⁵ / ₁₆ in. 425 cm	89 ³ / ₄ in. 228 cm	177 ¹ / ₁₆ in. 450 cm	8,000 3,636 kg	974 lb. 442.6 kg
AHSN-8-10-16	88 in. 224 cm	119 ³ / ₄ in. 304 cm	192 ¹⁵ / ₁₆ in. 490 cm	89 ³ / ₄ in. 228 cm	201 ¹ / ₁₆ in. 511 cm	8,000 3,636 kg	1,022 lb. 464.6 kg
AHSN-8-15-7	46 ¹ / ₂ in. 118 cm	179 ³ / ₄ in. 457 cm	85 ⁵ / ₈ in. 217.5 cm	149 ³ / ₄ in. 380 cm	95 ¹¹ / ₁₆ in. 243 cm	8,000 3,636 kg	800 lb. 363.7 kg
AHSN-8-15-9	58 ³ / ₈ in. 148 cm	179 ³ / ₄ in. 457 cm	109 ⁵ / ₈ in. 278 cm	149 ³ / ₄ in. 380 cm	119 ³ / ₄ in. 304 cm	8,000 3,636 kg	880 lb. 400 kg
AHSN-8-15-10	64 ⁵ / ₁₆ in. 163 cm	179 ³ / ₄ in. 457 cm	121 ⁹ / ₁₆ in. 309 cm	149 ³ / ₄ in. 380 cm	131 ¹¹ / ₁₆ in. 334.5 cm	8,000 3,636 kg	920 lb. 418.2 kg
AHSN-8-15-12	76 ¹ / ₄ in. 194 cm	179 ³ / ₄ in. 457 cm	141 ³ / ₈ in. 360 cm	149 ³ / ₄ in. 380 cm	155 ⁷ / ₁₆ in. 395 cm	8,000 3,636 kg	999 lb. 454 kg
AHSN-8-15-14	88 in. 224 cm	179 ³ / ₄ in. 457 cm	164 ¹⁵ / ₁₆ in. 419 cm	149 ³ / ₄ in. 380 cm	179 ¹ / ₁₆ in. 455 cm	8,000 3,636 kg	1,077 lb. 489.7 kg
AHSN-8-15-16	88 in. 224 cm	179 ³ / ₄ in. 457 cm	188 ¹⁵ / ₁₆ in. 480 cm	149 ³ / ₄ in. 380 cm	203 ¹ / ₁₆ in. 516 cm	8,000 3,636 kg	1,126 lb. 511.8 kg
AHSN-8-20-12	76 ¹ / ₄ in. 194 cm	239 ³ / ₄ in. 609 cm	145 ³ / ₈ in. 369 cm	209 ³ / ₄ in. 533 cm	157 ¹ / ₂ in. 400 cm	8,000 3,636 kg	1,123 lb. 510.6 kg
AHSN-8-20-14	88 in. 224 cm	239 ³ / ₄ in. 609 cm	164 ¹⁵ / ₁₆ in. 419 cm	209 ³ / ₄ in. 533 cm	181 ¹ / ₁₆ in. 460 cm	8,000 3,636 kg	1,202 lb. 546.3 kg
AHSN-8-20-16	88 in. 224 cm	239 ³ / ₄ in. 609 cm	205 ¹ / ₁₆ in. 521 cm	209 ³ / ₄ in. 533 cm	205 ¹ / ₁₆ in. 521 cm	8,000 3,636 kg	1,250 lb. 568.4 kg
AHSN-10-15-10	64 ⁵ / ₁₆ in. 163 cm	179 ³ / ₄ in. 457 cm	134 in. 340 cm	149 ³ / ₄ in. 380 cm	121 ⁷ / ₈ in. 310 cm	10,000 4,545 kg	967 lb. 439.4 kg

SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage. The signal words used appear below along with the meaning of each word.

DANGER

Identifies a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**. Use of this signal word is limited to the most extreme situations.

WARNING

Identifies a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

CAUTION

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE** injury.

NOTICE

Identifies practices likely to result in product/property damage, such as operation that might damage the crane.

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. However, no manual can address every conceivable risk. The most effective way to avoid injury is to exercise sound judgment when assembling, using, inspecting, and maintaining this crane. **Keep a copy of this manual with the crane at all times.** For example, put the copy inside a plastic pouch and attach the pouch to the frame.

DANGER

Electrocution might result if the crane contacts electrified wires.

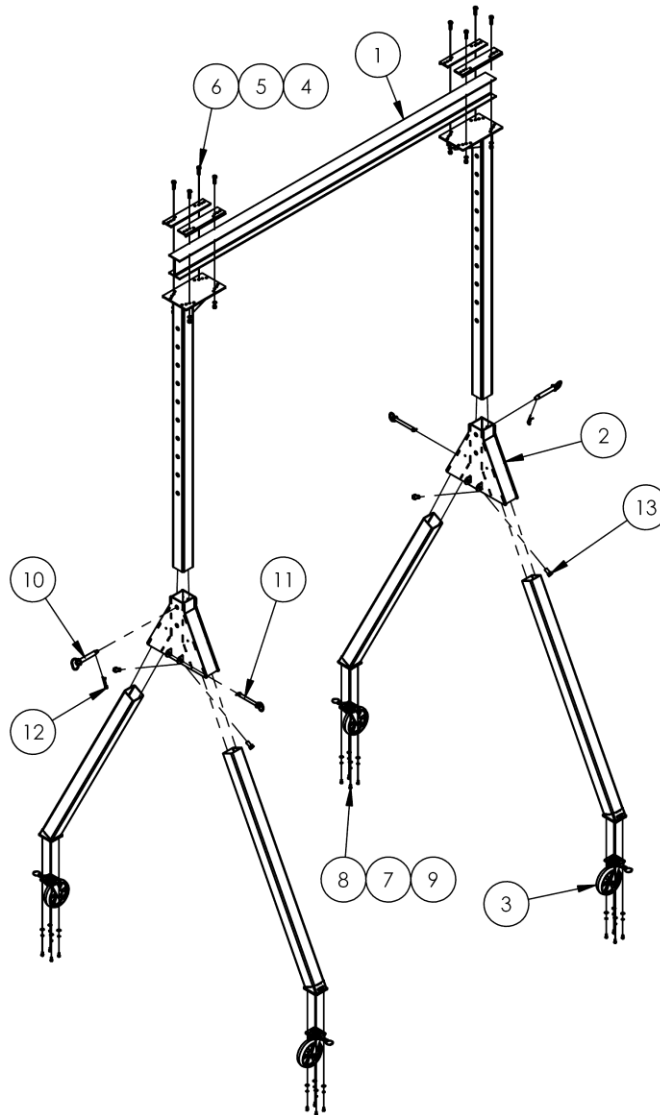
- DO NOT assemble, maintain, or use the crane in an area where it could contact electrified wires.
- Regularly inspect electrical wiring in the area where the crane is used. DO NOT contact electrical wiring, especially wiring with exposed conductors (damaged insulation) with the crane.

WARNING

Material handling is dangerous and could result in serious personal injuries.

- Inspect the usage area each time the crane is used. Make sure that all debris on the ground is removed.
- DO NOT use a damaged or malfunctioning crane. ALWAYS inspect the crane before each use by following the [INSPECTIONS & MAINTENANCE](#) instructions on p. 24. DO NOT use the crane unless it passes every part of the appropriate inspection, i.e. is in [SATISFACTORY CONDITION](#). See [RECORD OF SATISFACTORY CONDITION](#) page 24.
- DO NOT attempt to adjust the height of the crane while a load is applied.
- DO NOT adjust the height of the crane until any hoist and/or trolley is secured at the center of the I-beam. The hoist should not be able to move while height adjustments are performed.
- DO NOT attempt to lift a load that weighs more than the capacity of your crane. Capacity information for each AHS model crane is provided in the [SPECIFICATIONS](#) tables on p. 2-3. Capacity information also appears in the [LABELING DIAGRAM](#) section on p. 25, as well as on capacity labels applied to the crane.
- Keep clear of the suspended load. DO NOT put any part of your body under a suspended load.
- DO NOT stand beneath or travel under the crane if a load is suspended, and DO NOT permit any person to stand beneath or travel under the load.
- Inform all persons in the area that you are going to use the crane; instruct them to stay clear of the device and the supported load during operation.
- DO NOT lift people with the crane. DO NOT lift loads over people.
- DO NOT allow people to climb on the load or the crane.
- DO NOT operate manual motions with other than manual power.
- DO NOT push or pull the crane with a vehicle. Slowly & carefully push the trailing end of the crane to move it. DO NOT stand beneath the I-beam while pushing the crane. Only traverse even, level ground.
- ALWAYS load the crane in accordance with [PROPER LOADING](#) recommendations on p. 22-23.
- DO NOT lift a load unless it is centered under your hoist. A swinging load might cause serious injury.
- DO NOT remove or obscure any label on the crane. DO NOT use the crane if any label is damaged, missing, or not easily readable. See [LABELING DIAGRAM](#) on p. 25. Contact Vestil for replacement labels.
- DO NOT modify the crane in any way without the express approval of Vestil in writing. Unapproved modifications automatically void the [LIMITED WARRANTY](#) and might make the crane unsafe to use.
- **DO NOT use the crane to transport loads. ONLY use the crane to lift loads!**

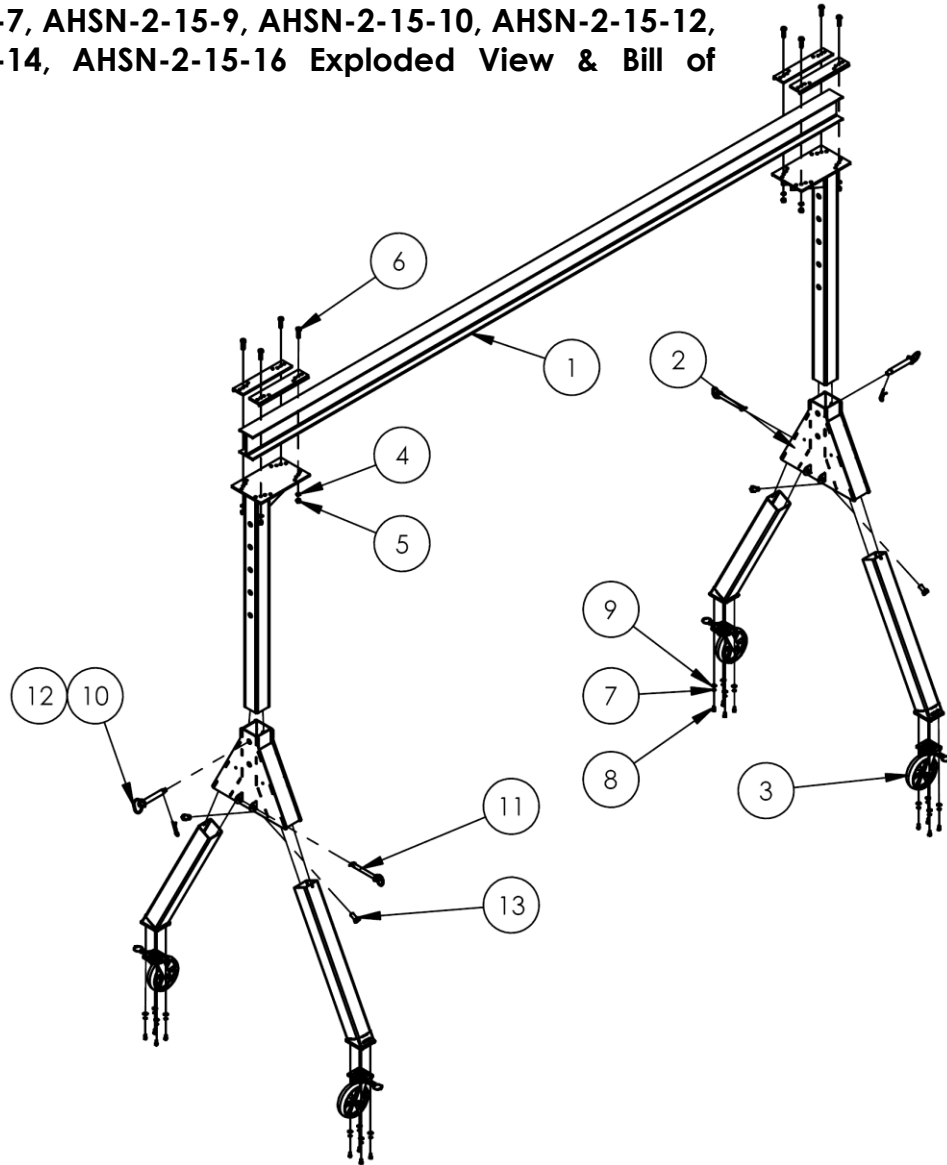
FIG. A: AHSN-2-10-12, AHSN-2-10-14, & AHSN-2-10-16 Exploded View & Bill of Materials
28-006-298



Item	Part no.	Description	Quantity
1	28-014-384	FRAME, DOMESTIC STEEL I-BEAM	1
2	28-514-237	WELDMENT, STEEL LEG YOKE	2
3	16-132-249	CASTER, LOCKING	4
4	33626	LOCK WASHER Z PLATED, Ø 1/2	8
*5	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8
6*	19211-B	Ø1/2-13 x 2" A325 BOLT(ORDER COMBO #19211 W/NUT)	8
7	33620	LOCK WASHER, MEDIUM SPLIT, Ø5/16"	16
8	11053	Ø 5/16 - 18 x 3/4 LG HHCS #2 Z-PLATED, GRADE A	16
9	33006	FLAT WASHER,ZINC PLATED,USS, Ø5/16"	16
10	28-112-027	PIN, AXLE, PIVOT, ROLLER	2
11	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2
12	45282	#6 HITCH PIN CLIP	2
14	28-514-312	Weldment, upright assembly	2
	28-514-313	AHSN-2-10-12	2
	28-514-314	AHSN-2-10-16	2
15	28-516-053	WELDMENT, I-BEAM CLAMP	4
16	28-514-319	Leg weldment	4
	28-514-320	12ft. H (AHSN-20-10-12) 14ft - 16ft. H (AHSN-2-10-14 & AHSN-2-10-16)	4

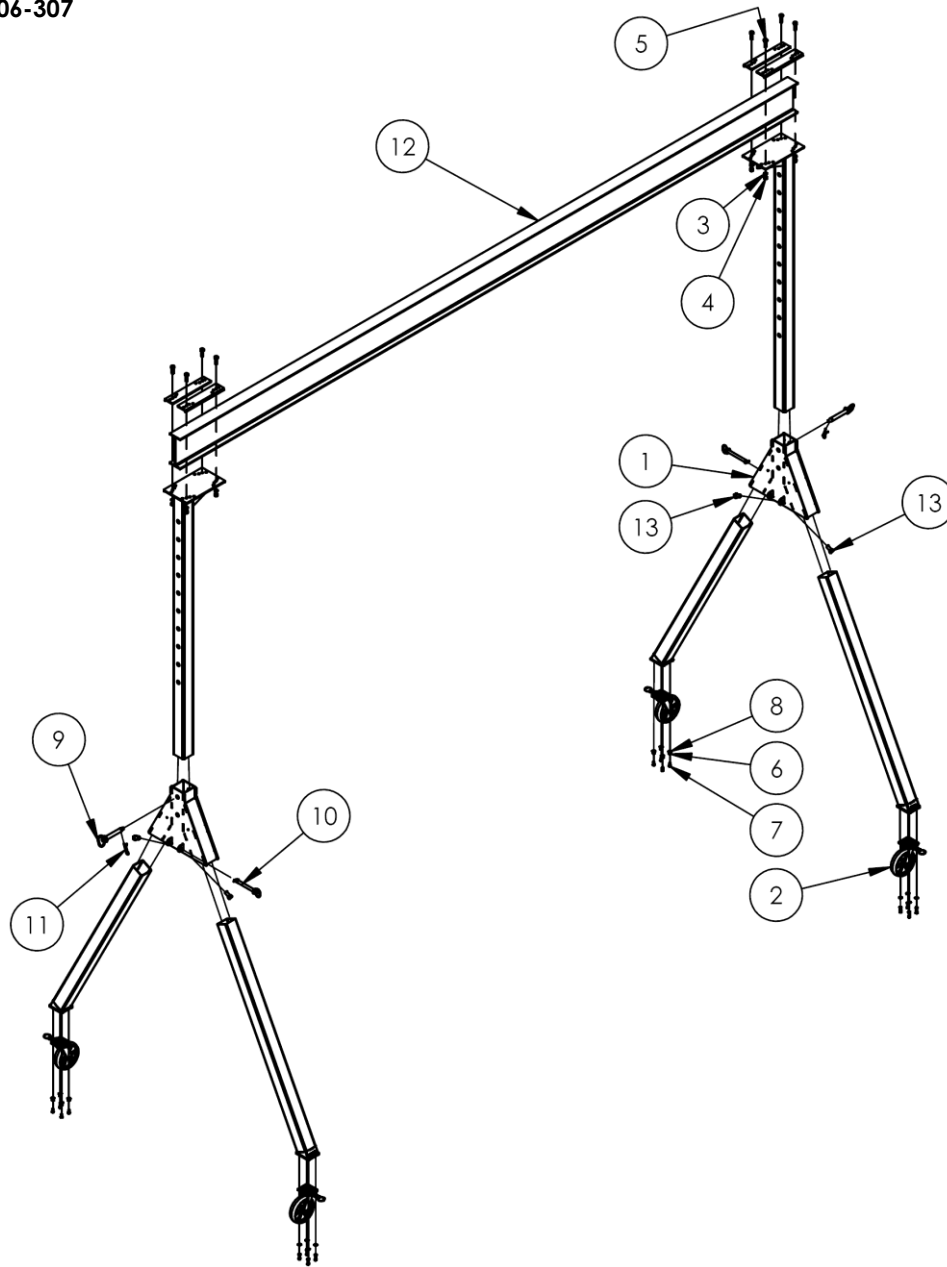
*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. B: AHSN-2-15-7, AHSN-2-15-9, AHSN-2-15-10, AHSN-2-15-12, AHSN-2-15-14, AHSN-2-15-16 Exploded View & Bill of Materials
28-006-301



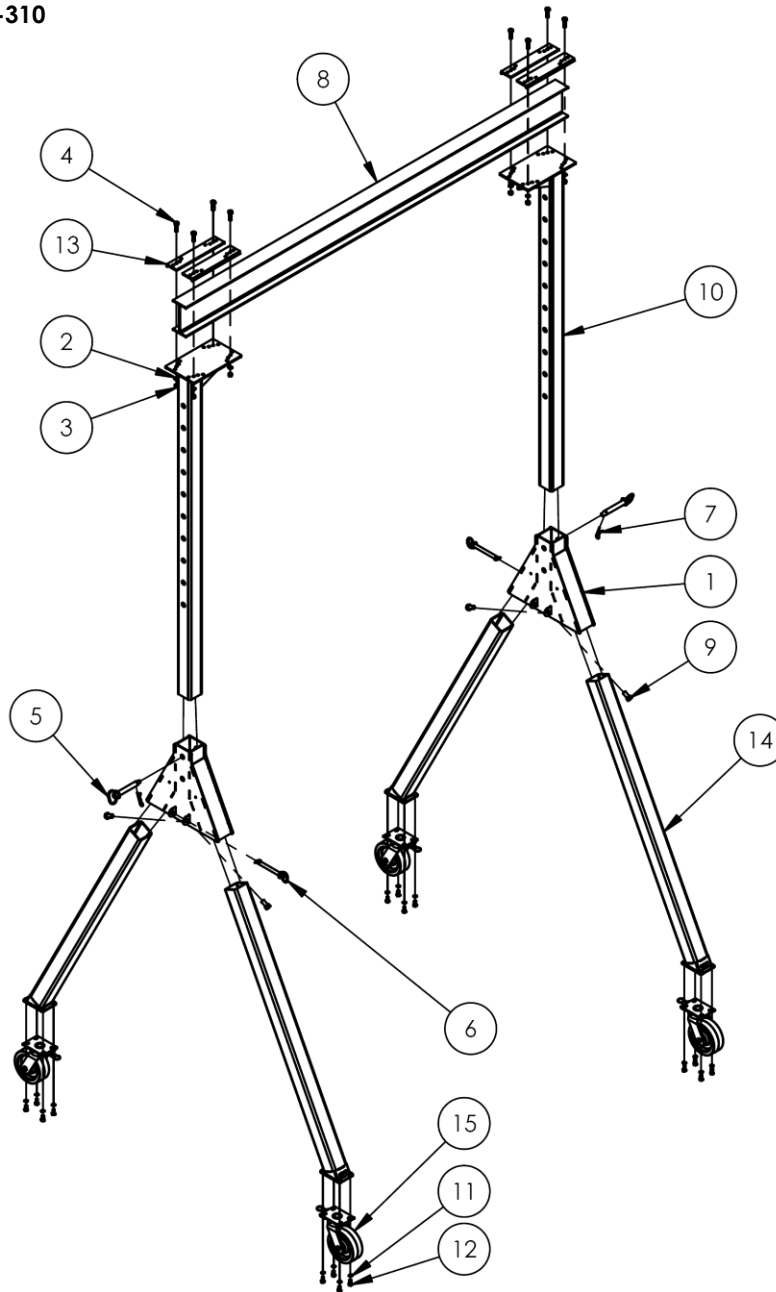
Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-384	FRAME, DOMESTIC STEEL I-BEAM	1	9	33006	FLAT WASHER,ZINC PLATED,USS, Ø5/16"	16
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	10	28-112-027	PIN, AXLE, PIVOT, ROLLER	2
3	16-132-249	CASTER, LOCKING	4	11	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2
4	33626	LOCK WASHER Z PLATED, Ø 1/2	8	12	45282	#6 HITCH PIN CLIP	2
*5	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	13	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
*6	19211-B	Ø1/2-13 x 2" A325 BOLT(ORDER COMBO #19211 W/NUT)	8	14	28-514-321 28-514-322 28-514-323 28-514-312 28-514-313 28-514-314	Weldment, upright assembly AHSN-2-15-7 AHSN-2-15-9 AHSN-2-15-10 AHSN-2-15-12 AHSN-2-15-14 AHSN-2-15-16	2 2 2 2 2 2
7	33620	LOCK WASHER, MEDIUM SPLIT, Ø5/16"	16	15	28-516-053	WELDMENT, I-BEAM CLAMP	4
8	11053	Ø 5/16 - 18 x 3/4 LG HHCS #2 Z-PLATED, GRADE A	16	16	28-514-316 28-514-317 28-514-318 28-514-319 28-514-320 28-514-320	Leg weldment AHSN-2-15-7 AHSN-2-15-9 AHSN-2-15-10 AHSN-2-15-12 AHSN-2-15-14 AHSN-2-15-16	4 4 4 4 4 4

*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. C: AHSN-2-20-12, AHSN-2-20-14, & AHSN-2-20-16 Exploded View & Bill of Materials
28-006-307

Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-514-237	WELDMENT, STEEL LEG YOKE	2	9	28-112-027	PIN, AXLE, PIVOT, ROLLER	2
2	16-132-249	CASTER, LOCKING	4	10	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2
3	33626	LOCK WASHER Z PLATED, Ø 1/2	8	11	45282	#6 HITCH PIN CLIP	2
4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	12	28-014-392	FRAME, DOMESTIC STEEL I-BEAM	1
5	19211-B	Ø1/2-13 x 2" A325 BOLT(ORDER COMBO #19211 W/NUT)	8	13	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
6	33620	LOCK WASHER, MEDIUM SPLIT, Ø5/16"	16	14	28-514-312 28-514-313 28-514-314	<u>Weldment, upright assembly:</u> AHSN-2-20-12 AHSN-2-20-14 AHSN-2-20-16	2 2 2
7	11053	Ø 5/16 - 18 x 3/4 LG HHCS #2 Z-PLATED, GRADE A	16	15	28-516-053	WELDMENT, I-BEAM CLAMP	4
8	33006	FLAT WASHER,ZINC PLATED,USS, Ø5/16"	16	16	28-514-319 28-514-320 28-514-320	<u>Leg weldment:</u> AHSN-2-20-12 AHSN-2-20-14 AHSN-2-20-16	4 4 4

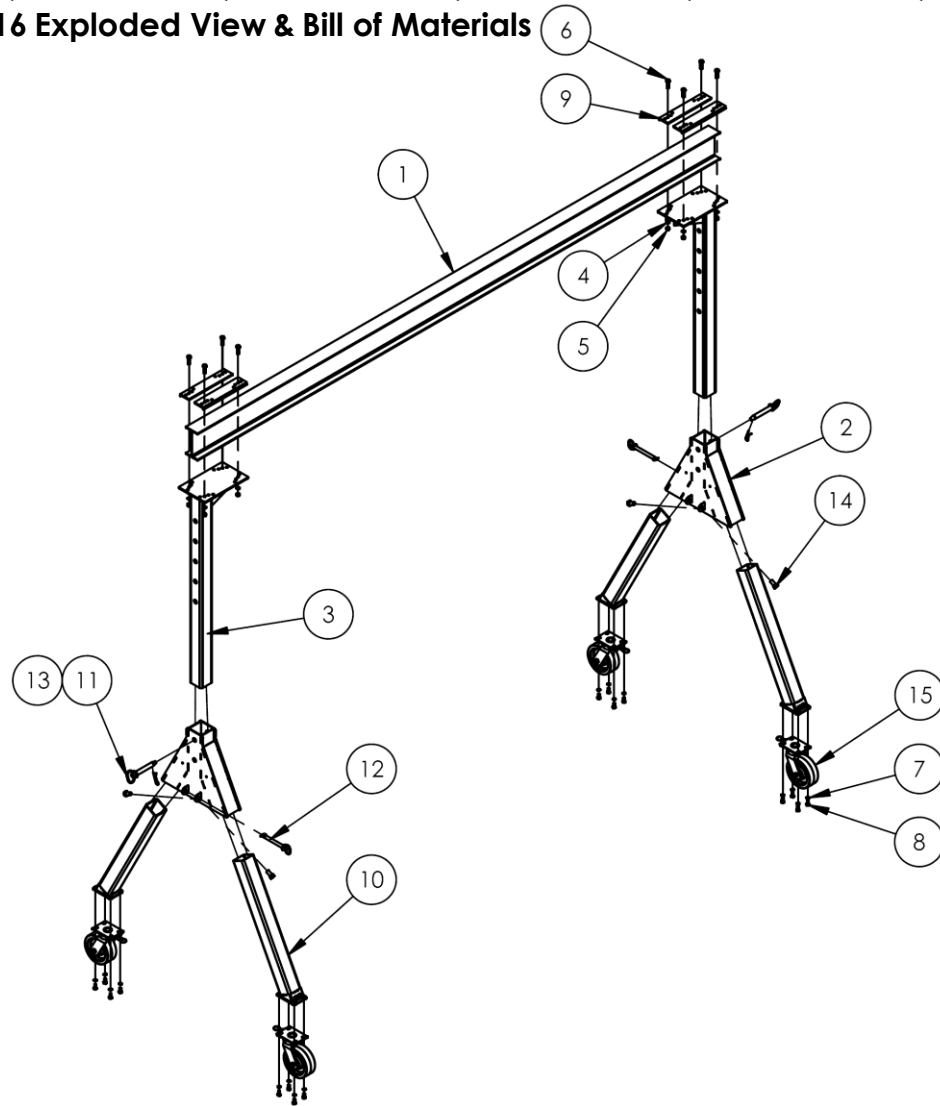
*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. D: AHSN-4-10-12, AHSN-4-10-14, & AHSN-4-10-16 Exploded View & Bill of Materials
28-006-310

Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-514-237	WELDMENT, STEEL LEG YOKE	2	9	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
2	33626	LOCK WASHER Z PLATED, Ø 1/2	8	10	28-514-009 28-514-010 28-514-124	Weldment, upright assembly: AHSN-4-10-12 AHSN-4-10-14 AHSN-4-10-16	2 2 2
*3	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	11	28-514-009	WELDMENT, FRAME, UPRIGHT	2
*4	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	12	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
5	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	13	15155	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x1"	16
6	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	14	28-514-241 28-514-242 28-514-242	Leg weldment: AHSN-4-10-12 AHSN-4-10-14 AHSN-4-10-16	4 4 4
7	45282	#6 HITCH PIN CLIP	2	15	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
8	28-014-387	FRAME, DOMESTIC STEEL I-BEAM	1				

*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

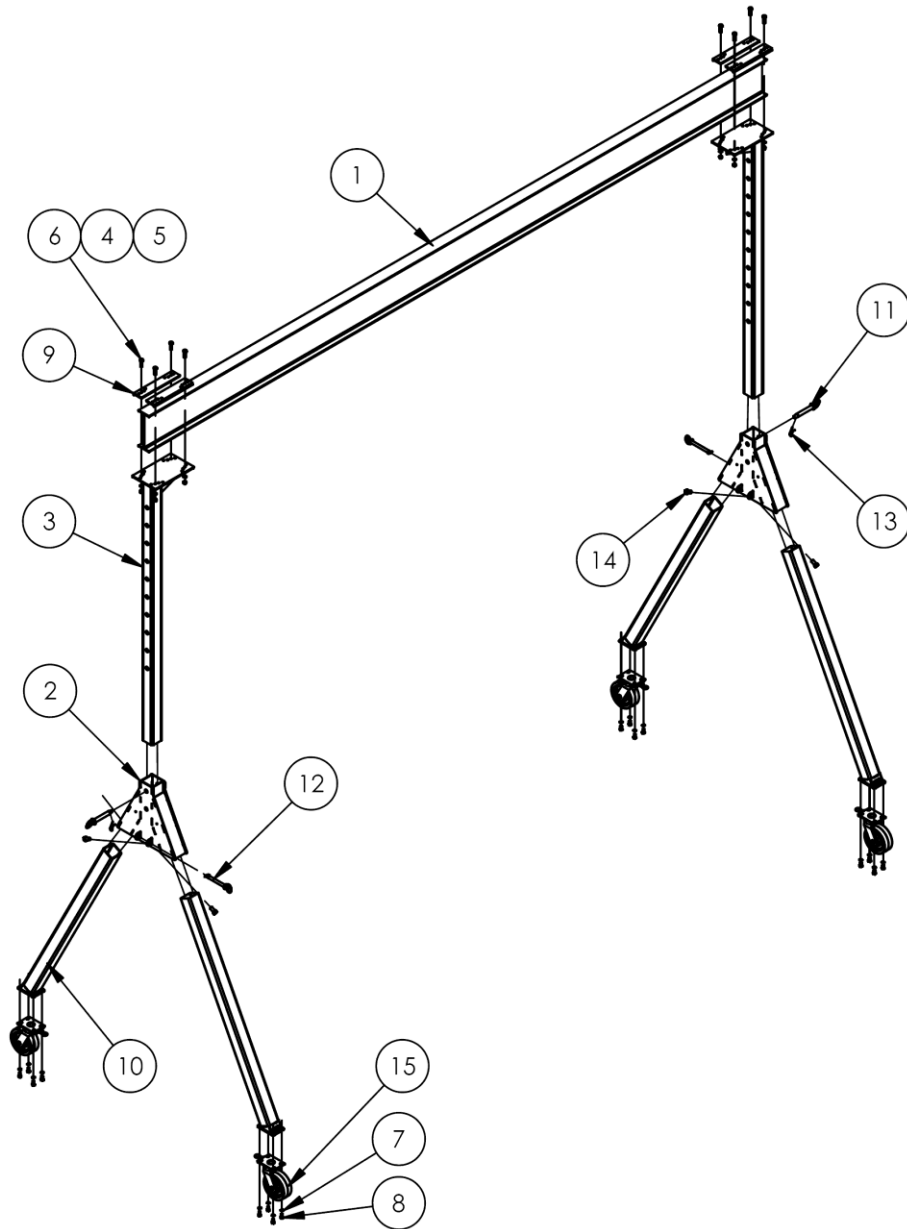
FIG. E: AHSN-4-15-7, AHSN-4-15-9, AHSN-4-15-10, AHSN-4-15-12, AHSN-4-15-14, & AHSN-4-15-16 Exploded View & Bill of Materials
28-006-313



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-388	FRAME, DOMESTIC STEEL I-BEAM	1	9	28-516-053	WELDMENT, I-BEAM CLAMP	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	10	28-514-238 28-514-239 28-514-240 28-514-241 28-514-242 28-514-242	Leg weldment:: AHSN-4-15-7 AHSN-4-15-9 AHSN-4-15-10 AHSN-4-15-12 AHSN-4-15-14 AHSN-4-15-16	4 4 4 4 4 4
3	28-514-151 28-514-150 28-514-149 28-514-009 28-514-010 28-514-124	Weldment, upright assembly: AHSN-4-15-7 AHSN-4-15-9 AHSN-4-15-10 AHSN-4-15-12 AHSN-4-15-14 AHSN-4-15-16	2 2 2 2 2 2	11	28-112-027	PIN, AXLE, PIVOT, ROLLER	2
4	33626	LOCK WASHER Z PLATED, Ø1/2	8	12	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2
*5	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	13	45282	#6 HITCH PIN CLIP	2
*6	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	14	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
7	33624	LOCK WASHER, Z PLATED, Ø7/16	16	15	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
8	15155	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x1"	16				

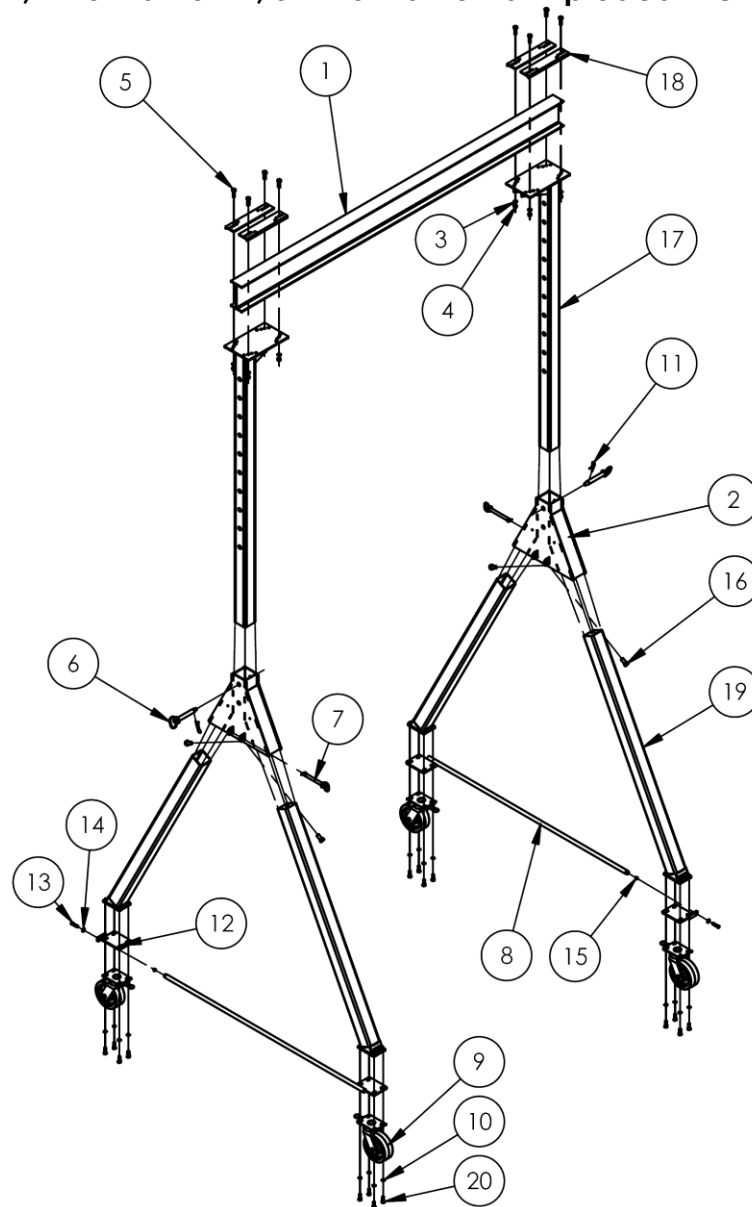
*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. F: AHSN-4-20-12, AHSN-4-20-14, & AHSN-4-20-16 Exploded View & Bill of Materials
28-006-319



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-394	FRAME, DOMESTIC STEEL I-BEAM	1	9	28-516-053	WELDMENT, I-BEAM CLAMP	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	10	28-514-241 28-514-242 28-514-242	<u>Leg weldment</u> AHSN-4-20-12 AHSN-4-20-14 AHSN-4-20-16	4 4 4
3	28-514-009 28-514-010 28-514-124	<u>Weldment, upright assembly</u> AHSN-4-20-12 AHSN-4-20-14 AHSN-4-20-16	2 2 2	11	28-112-027	PIN, AXLE, PIVOT, ROLLER	2
4	33626	LOCK WASHER Z PLATED, Ø1/2	8	12	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2
5	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	13	45282	#6 HITCH PIN CLIP	2
6	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	14	11359	HHCS #2 Z-PLATED, 3/4 -10 x 11/2	4
7	33624	LOCK WASHER, Z PLATED, Ø7/16	16	15	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
8	15155	HEX BOLT, GRADE A, Z-PLATED, Ø7/16"-14X1"	16				

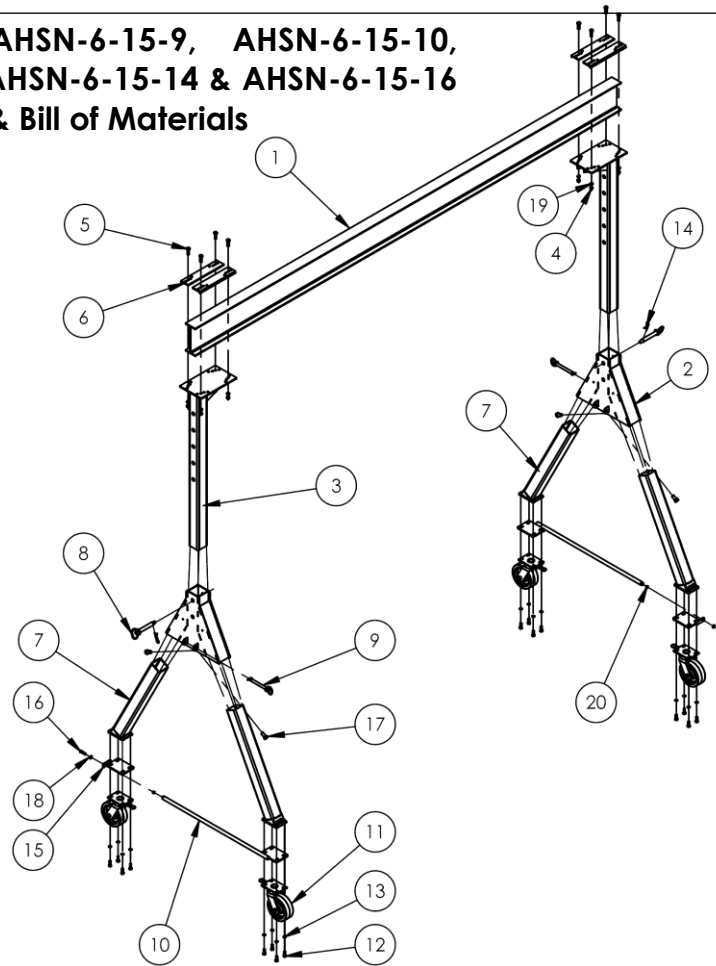
*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. G: AHSN-6-10-12, AHSN-6-10-14, & AHSN-6-10-16 Exploded View & Bill of Materials
28-006-322

Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-387	FRAME, DOMESTIC STEEL I-BEAM	1	11	45282	#6 HITCH PIN CLIP	2
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	12	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
3	33626	LOCK WASHER Z PLATED, Ø 1/2	8	13	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
*4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	14	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	15	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2
6	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	16	11359	HHCS #2 Z-PLATED, 3/4 - 10 x 1 1/2	4
7	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	17	28-514-009 28-514-010 28-514-124	Telescoping upright assembly weldment AHSN-6-10-12 AHSN-6-10-14 AHSN-6-10-16	2 2 2
8	28-514-246 28-514-247	Weldment, leg set cross brace: AHSN-6-10-12 AHSN-6-10-14 & AHSN-6-10-16	2 2	18	28-516-053	WELDMENT, I-BEAM CLAMP	4
9	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4	19	28-514-241 28-514-242	Leg weldment AHSN-6-10-12 AHSN-6-10-14 & AHSN-6-10-16	4 4
10	33624	LOCK WASHER, Z PLATED, Ø 7/16	16	20	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16

*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

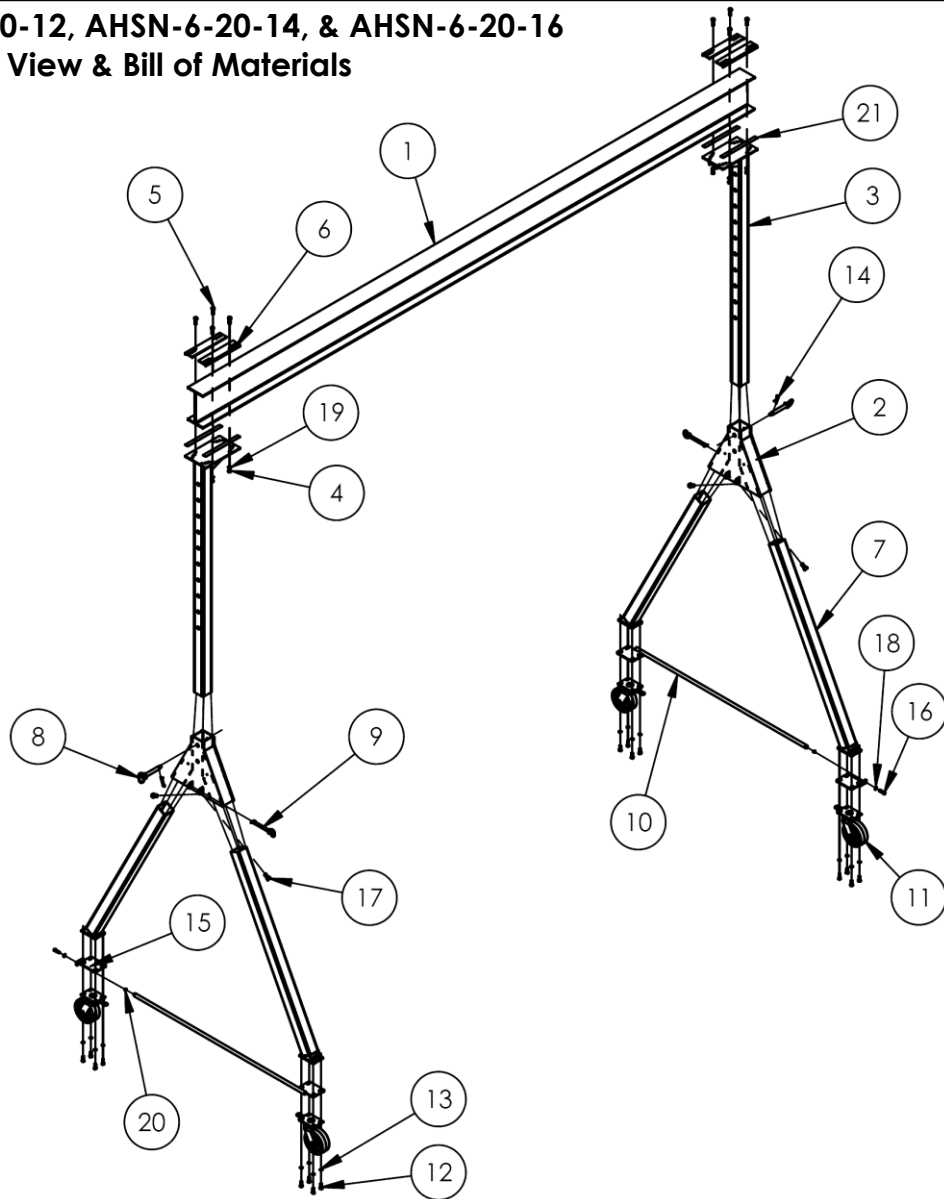
**FIG. H: AHSN-6-15-7, AHSN-6-15-9, AHSN-6-15-10,
AHSN-6-15-12, AHSN-6-15-14 & AHSN-6-15-16
Exploded View & Bill of Materials
28-006-325**



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-391	FRAME, DOMESTIC STEEL I-BEAM	1	11	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	12	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16
3	28-514-151 28-514-150 28-514-149 28-514-009 28-514-010 28-514-124	Weldment, upright assembly: AHSN-6-15-7 AHSN-6-15-9 AHSN-6-15-10 AHSN-6-15-12 AHSN-6-15-14 AHSN-6-15-16	2 2 2 2 2 2	13	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
*4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	14	45282	#6 HITCH PIN CLIP	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	15	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
6	28-516-053	WELDMENT, I-BEAM CLAMP	4	16	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
7	28-514-238 28-514-239 28-514-240 28-514-241 28-514-242	Leg weldment: AHSN-6-15-7 AHSN-6-15-9 AHSN-6-15-10 AHSN-6-15-12 AHSN-6-15-14 & AHSN-6-15-16	4 4 4 4 4	17	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	19	33626	LOCK WASHER Z PLATED, Ø 1/2	8
10	28-514-243 28-514-244 28-514-245 28-514-246 28-514-247	Weldment, leg set cross brace: AHSN-6-15-7 AHSN-6-15-9 AHSN-6-15-10 AHSN-6-15-12 AHSN-6-15-14 & AHSN-6-15-16	2 2 2 2 2	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2

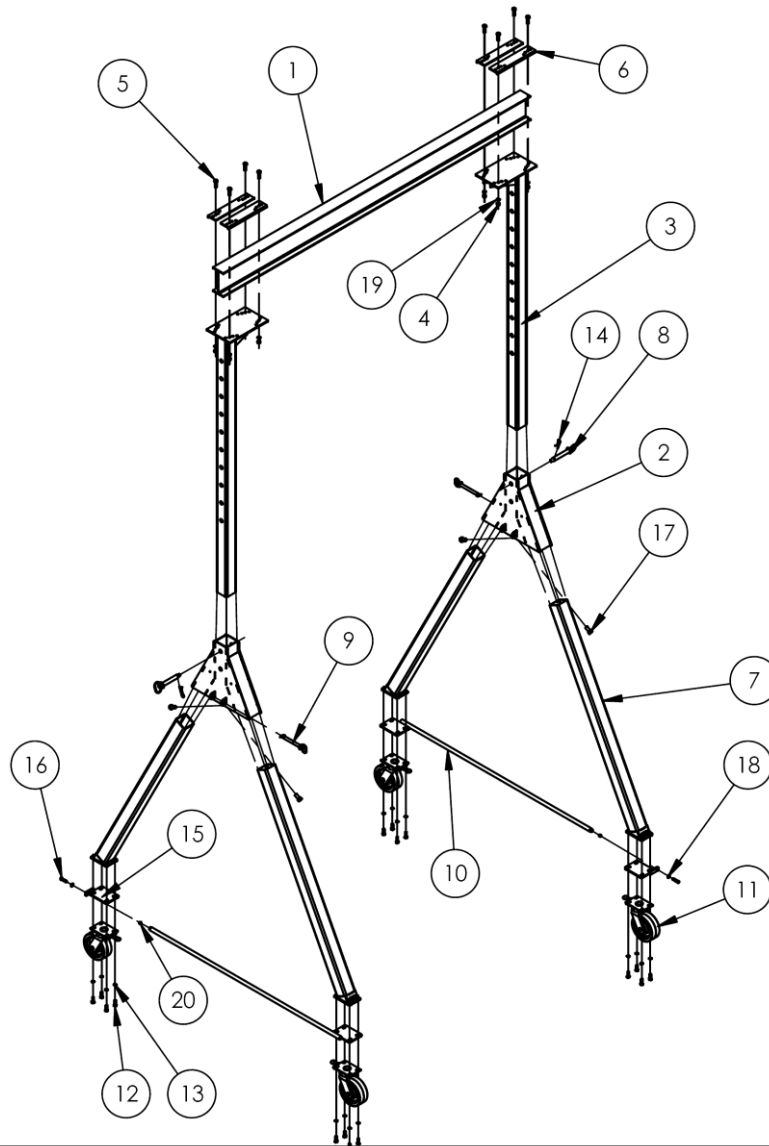
*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. I: AHSN-6-20-12, AHSN-6-20-14, & AHSN-6-20-16
Exploded View & Bill of Materials
28-006-331



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-417	FRAME, DOMESTIC STEEL I-BEAM	1	12	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	13	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
3	28-514-009 28-514-124 28-514-010	<u>Assembly frame, upright</u> AHSN-6-20-12 AHSN-6-20-14 AHSN-6-20-16	2 2 2	14	45282	#6 HITCH PIN CLIP	2
*4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	15	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT(ORDER COMBO #19211 W/NUT)	8	16	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
6	28-516-053	WELDMENT, I-BEAM CLAMP	4	17	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
7	28-514-241 28-514-242	<u>Weldment, leg</u> AHSN-6-20-12 AHSN-6-20-14 & AHSN-6-20-16	4 4	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	19	33626	LOCK WASHER Z PLATED, Ø 1/2	8
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2
10	28-514-246 28-514-247	<u>Weldment, leg set cross brace</u> AHSN-6-20-12 AHSN-6-20-14 & AHSN-6-20-16	2 2	21	28-113-022	SHIM, TOP PLATE CLAMP SHIM	4
11	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4				

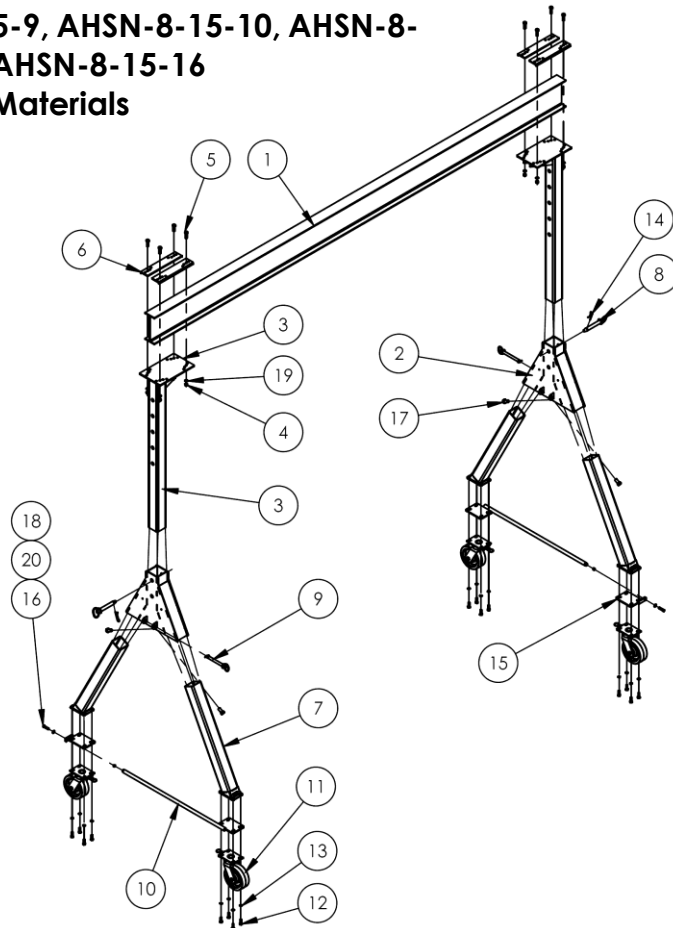
*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. J: Exploded Parts Diagram for Models AHSN-8-10-12, AHSN-8-10-14, & AHSN-8-10-16
28-006-334

Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-387	FRAME, DOMESTIC STEEL I-BEAM	1	11	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	12	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16
3	28-514-009 28-514-010 28-514-124	<u>Weldment, upright assembly:</u> AHSN-8-10-12 AHSN-8-10-14 AHSN-8-10-16	24	13	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
*4	19211-A	Ø1/2-13 NUT - COMES W/ BOLT IN COMBO #19211	8	14	45282	#6 HITCH PIN CLIP	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	15	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
6	28-516-053	WELDMENT, I-BEAM CLAMP	4	16	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
7	28-514-241 28-514-242	<u>Leg weldment:</u> AHSN-8-10-12 AHSN-8-10-14 & AHSN-8-10-16	2	17	11359	HHCS #2 Z-PLATED, 3/4 - 10 x 1 1/2	4
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	19	33626	LOCK WASHER Z PLATED, Ø 1/2	8
10	28-514-246 28-514-247	<u>Weldment, leg set cross brace:</u> AHSN-8-10-12 AHSN-8-10-14 & AHSN-8-10-16	4	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2

*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

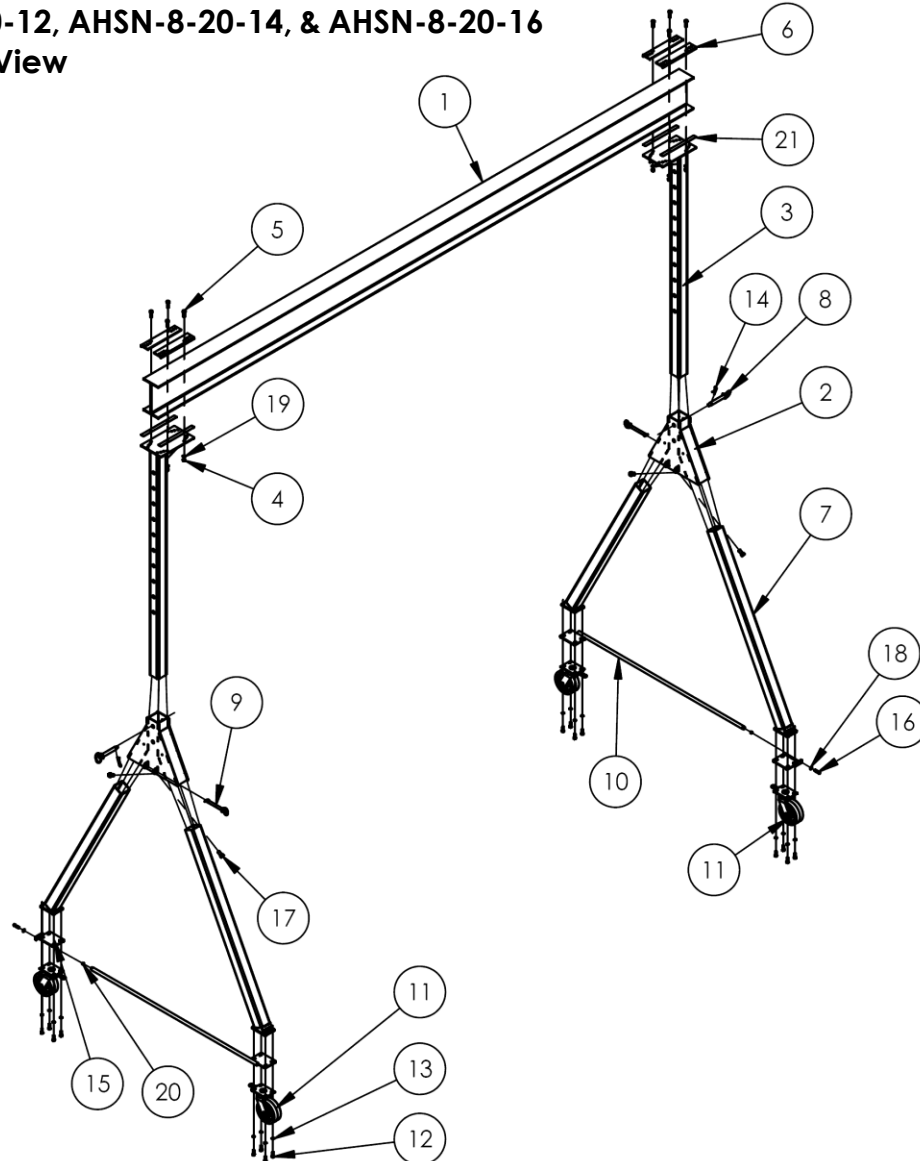
FIG. K: AHSN-8-15-7, AHSN-8-15-9, AHSN-8-15-10, AHSN-8-15-12, AHSN-8-15-14, & AHSN-8-15-16
Exploded View & Bill of Materials
28-006-337



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-391	FRAME, DOMESTIC STEEL I-BEAM	1	11	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	12	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16
3	28-514-151 28-514-150 28-514-149 28-514-009 28-514-010 28-514-124	Telescoping upright assembly weldment: AHSN-8-15-7 AHSN-8-15-9 AHSN-8-15-10 AHSN-8-15-12 AHSN-8-15-14 AHSN-8-15-16	24	13	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
*4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	14	45282	#6 HITCH PIN CLIP	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	15	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
6	28-516-053	WELDMENT, I-BEAM CLAMP	4	16	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
7	28-514-238 28-514-239 28-514-240 28-514-241 28-514-242	Leg weldment: AHSN-8-15-7 AHSN-8-15-9 AHSN-8-15-10 AHSN-8-15-12 AHSN-8-15-14 & AHSN-8-15-16	2	17	11359	HHCS #2 Z-PLATED, 3/4 - 10 x 1 1/2	4
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	19	33626	LOCK WASHER Z PLATED, Ø 1/2	8
10	28-514-243 28-514-244 28-514-245 28-514-246 28-514-247	Weldment, leg set cross brace: AHSN-8-15-7 AHSN-8-15-9 AHSN-8-15-10 AHSN-8-15-12 AHSN-8-15-14 & AHSN-8-15-16	16	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2

*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

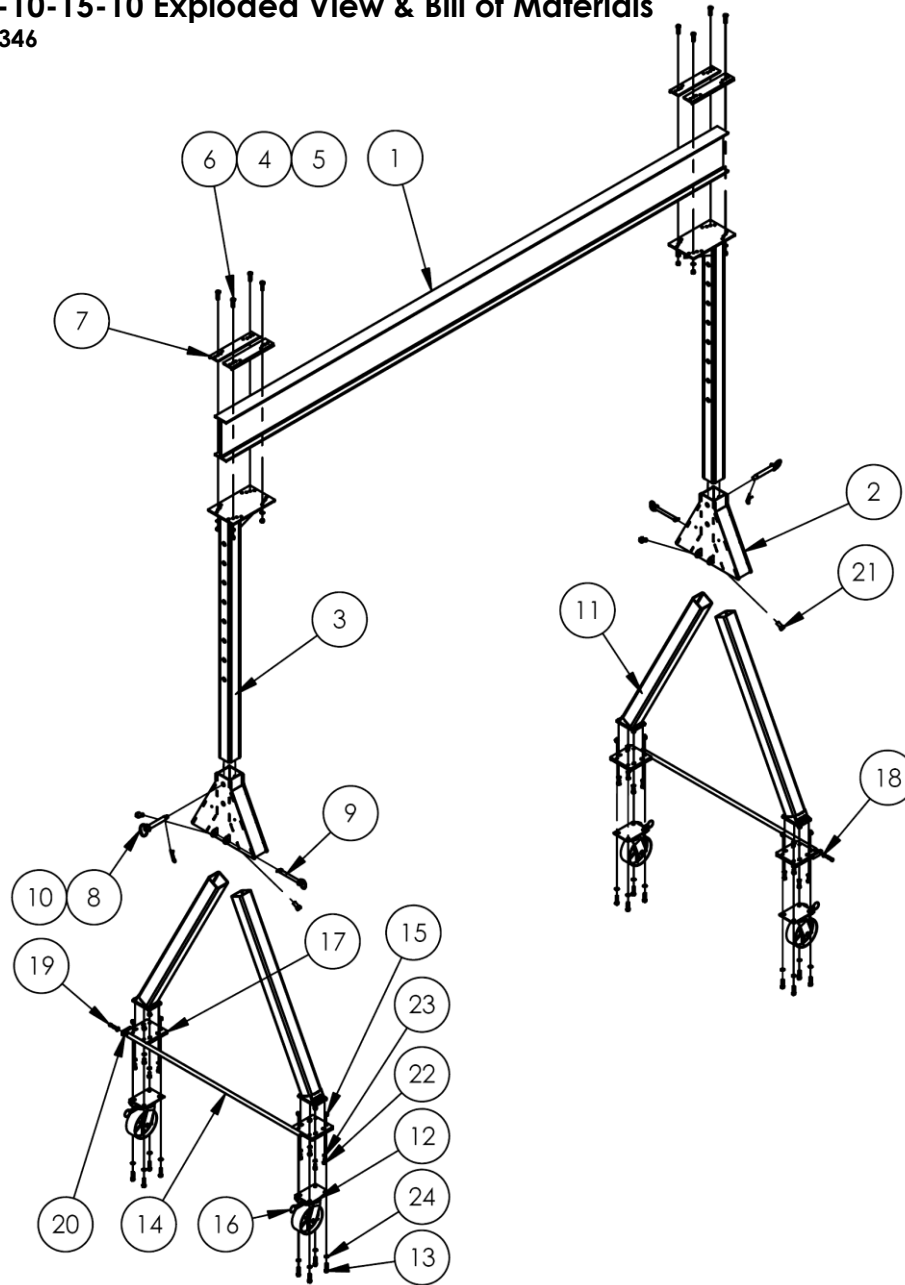
FIG. L: AHSN-8-20-12, AHSN-8-20-14, & AHSN-8-20-16
Exploded View
28-006-343



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-417	FRAME, DOMESTIC STEEL I-BEAM	1	11	16-132-064	Ø8" x 3" PHENOLIC 4 WAY SWIVEL LOCK CASTER	4
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	12	11159	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x 1 1/2"	16
3	28-514-009 28-514-010 28-514-124	<u>Assembly frame, upright</u> AHSN-8-20-12 AHSN-8-20-14 AHSN-8-20-16	2 2 2	13	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
*4	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	14	45282	#6 HITCH PIN CLIP	2
*5	19211-B	Ø1/2-13 x 2" A325 BOLT (ORDER COMBO #19211 W/NUT)	8	15	28-514-258	WELDMENT, CROSS BRACE BOLT END, 6/8K	2
6	28-516-053	WELDMENT, I-BEAM CLAMP	4	16	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
7	28-514-241 28-514-242	<u>Leg weldment</u> AHSN-8-20-12 AHSN-8-20-14 & AHSN-8-20-16	4 4	17	11359	HHCS #2 Z-PLATED, 3/4 - 10 x 1 1/2	4
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	19	33626	LOCK WASHER Z PLATED, Ø 1/2	8
10	28-514-246 28-514-247	<u>Weldment, leg set cross brace</u> AHSN-8-20-12 AHSN-8-20-14 & AHSN-8-20-16	2 2	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2
				21	28-113-022	SHIM, TOP PLATE CLAMP SHIM	4

*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

FIG. M: AHSN-10-15-10 Exploded View & Bill of Materials
28-006-346



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	28-014-393	FRAME, DOMESTIC STEEL I-BEAM	1	13	13211	HHCS #5 Z PLATED, GRADE 5, 1/2"-13x2"	16
2	28-514-237	WELDMENT, STEEL LEG YOKE	2	14	28-514-256	WELDMENT, LEG SET CROSS BRACE	2
3	28-514-149	WELDMENT, FRAME, UPRIGHT	2	15	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	16
4	33626	LOCK WASHER Z PLATED, Ø 1/2	8	16	16-132-305	BATWING CASTER POSITION LOCK	4
5	19211-A	Ø1/2-13 NUT - COMES W/BOLT IN COMBO #19211	8	17	28-514-259	WELDMENT, CROSS BRACE BOLT END	2
6	19211-B	Ø1/2-13 x 2" A325 BOLT(ORDER COMBO #19211 W/NUT)	8	18	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	2
7	28-516-053	WELDMENT, I-BEAM CLAMP	4	19	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	2
8	28-112-027	PIN, AXLE, PIVOT, ROLLER	2	20	36106	HEX NUT, GRADE A, ZINC PLATED, 3/8-16	2
9	28-112-007	HARDWARE, RETAINING PIN Ø3/4 X 6 5/8	2	21	11359	HHCS #2 Z-PLATED, 3/4 -10 x 1 1/2	4
10	45282	#6 HITCH PIN CLIP	2	22	15155	HEX BOLT, GRADE A, Z PLATED, Ø7/16"-14 x1"	16
11	28-514-240	WELDMENT, LEG	4	23	33624	LOCK WASHER, Z PLATED, Ø 7/16	16
12	16-132-243	CASTER, SWIVEL, Ø8 X 3 CASTER	4	24	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	16

*Part numbers **19211-A & 19211-B** equivalent to, and interchangeable with, **part no. 0129020**.

ASSEMBLING THE CRANE

⚠ WARNING

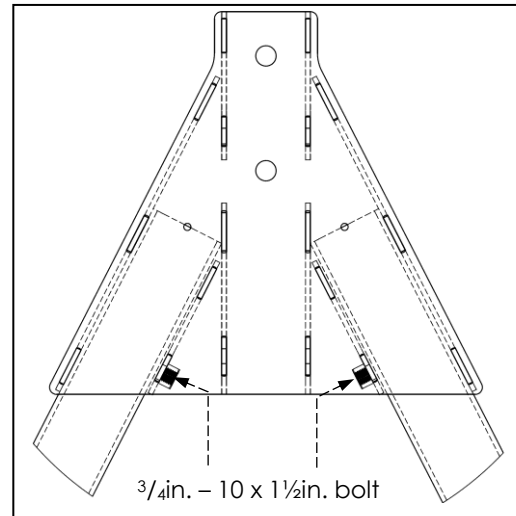
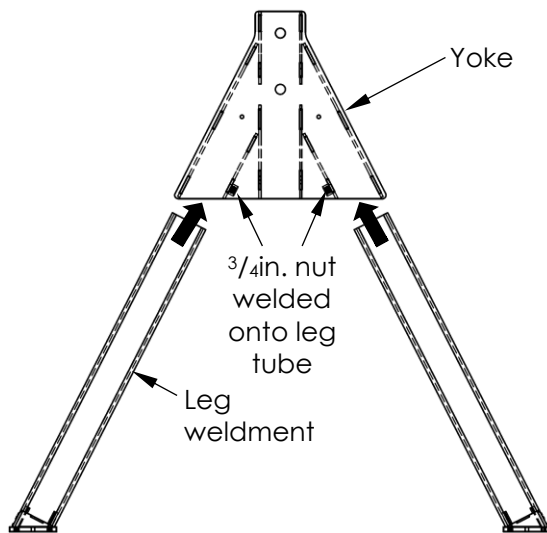
If the crane is improperly assembled, it might malfunction and result in serious personal injuries. Read this instruction manual in its entirety before assembling the crane; only assemble the crane if you fully understand both the associated risks and the manufacturer-approved assembly procedure discussed below.

- ONLY qualified personnel should assemble the crane.
- **DO NOT** modify the crane in any way unless and until you receive written approval from Vestil.
- **DO NOT** use the crane if you notice damage to or deformation of the beam, uprights, or any component of either of the leg assemblies. Using the crane despite weakness of a structural component could result in crane collapse.
- **DO NOT** use the crane if any of the hardware (bolts, nuts, clamps, etc.) is damaged; you could sustain serious injuries if the crane collapses. Contact Vestil to order replacement parts.
- **DO NOT** use the crane if any caster is damaged. A damaged caster may cause the crane to tip over while hoisting or supporting a load.

NOTICE

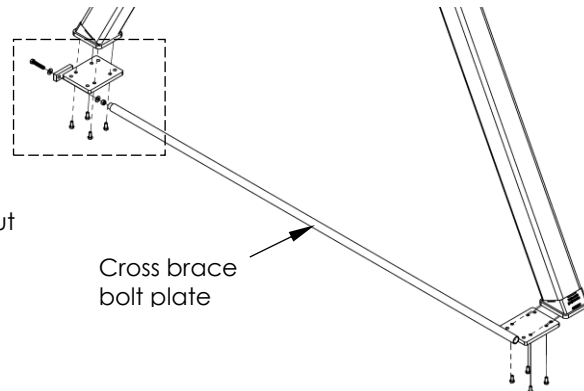
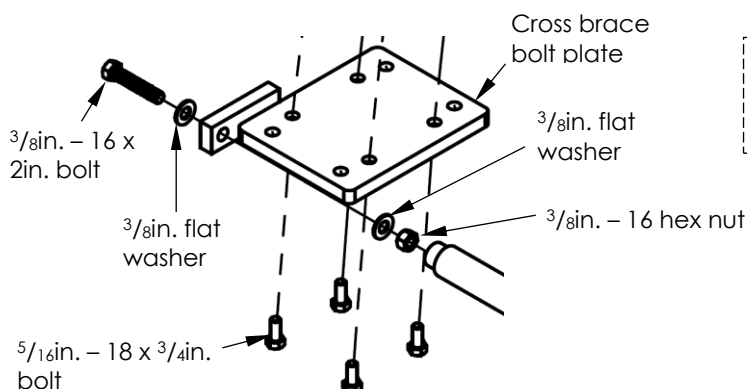
- Modifying the crane in any way without first receiving written approval of the modification from Vestil automatically voids the limited warranty.
- The crane is designed for both indoor and outdoor use. However, it should be sheltered from the weather when not in use.
- Inspect the crane for damage before each use.

Step 1a: Insert the leg weldments into the leg yoke; then secure the legs in place by installing $\frac{3}{4}$ in. – 10 x $1\frac{1}{2}$ in. bolts through the $\frac{3}{4}$ in. square nuts welded to the outer surface of the leg tubes.



[AHSN-6, AHSN-8, and AHSN-10 models only]

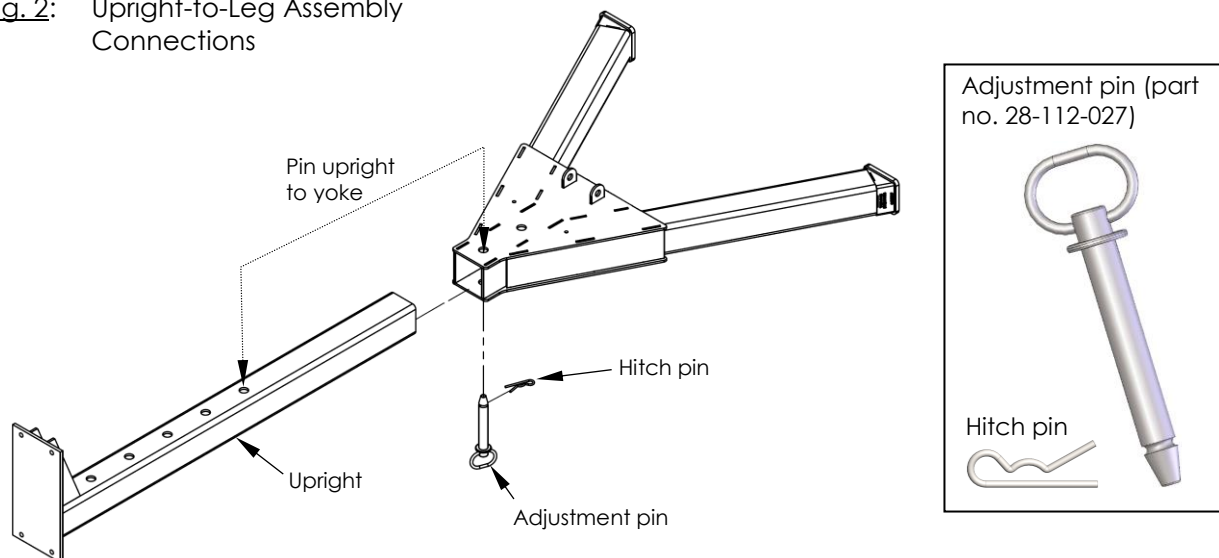
Step 1b: Attach cross brace (28-514-246) and cross brace bolt plate (28-514-259) to bottoms of legs; then fasten the cross brace to the bolt tab with $\frac{3}{8}$ in. hardware.



Step 2: Attach the uprights to the yokes.

- Lay the yokes, uprights, and legs on the ground.
- Slide the uprights into the center channels of the yokes.
- Align the selected pinhole in each upright with the pinhole in the yoke as shown in Figs. 2A below. Both uprights must be pinned to a leg assembly through the same pinhole.

Fig. 2: Upright-to-Leg Assembly Connections

**Step 3:** Attach one beam clamp to each upright using the hardware indicated in FIG. 3A or 3B below.

NOTE: Fig. 3A applies only to models AHSN-6-20-12, 6-20-14, 6-20-16, 8-20-12, 8-20-14, & 8-20-16.

Fig. 3A: Beam Clamp-to-Bracket Connection
[Models AHSN-6-20-12, 6-20-14, 6-20-16, 8-20-12, 8-20-14, & 8-20-16]

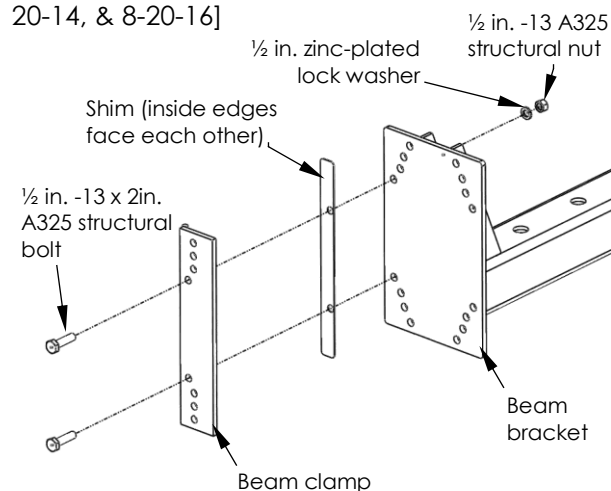
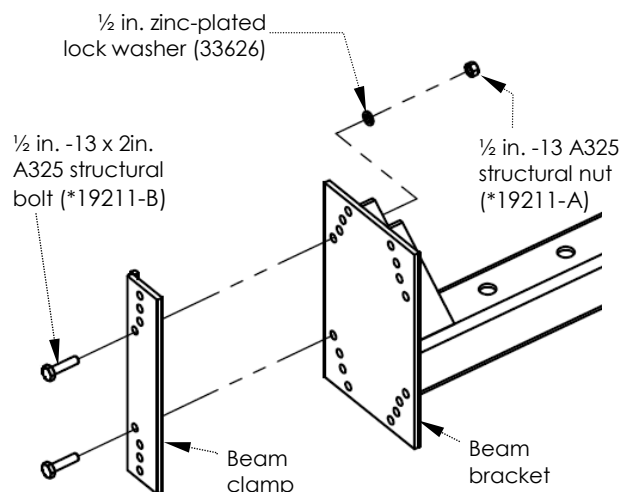


Fig. 3B: Beam Clamp-to-Bracket Connection
[*Part numbers **19211-A** & **19211-B** equivalent to, and interchangeable with, **part no. 0129020.**]



Shim (part no. 28-113-022)

Outside edge



Inside edge

Step 4: Fasten I-beam to uprights.

[NOTE: Shim only used with models AHSN-6-20-12, 6-20-14, 6-20-16, 8-20-12, 8-20-14 & 8-20-16.]

- Insert the flange of the I-beam into the gap between the beam clamp and the top of the uprights. See FIG. 4B below;
- Then clamp the flange on the opposite side of the beam to the beam bracket with the remaining beam clamps as shown in the applicable diagram (4C or 4D).

FIG. 4B: Clamp the I-beam to the tops of the uprights

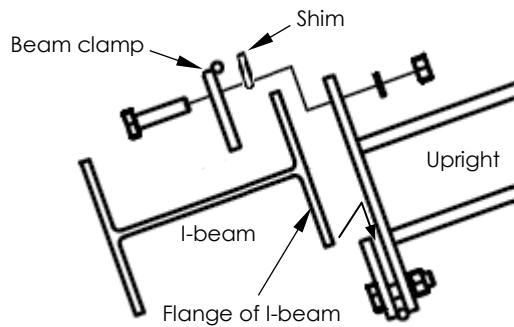


FIG. 4A: End View of I-beam Connection to Beam Bracket

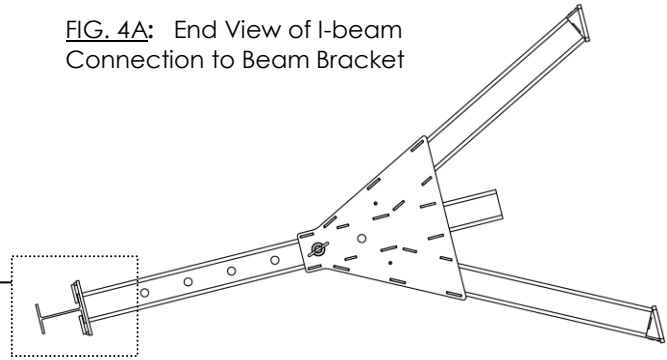


FIG. 4C: Beam-to-upright connection

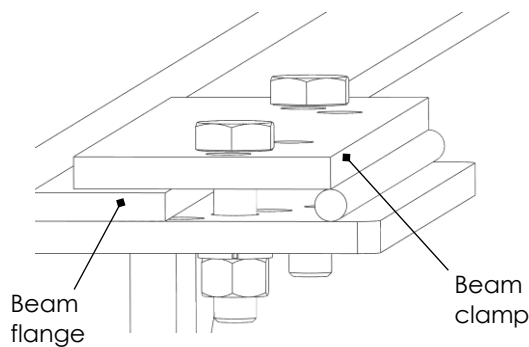
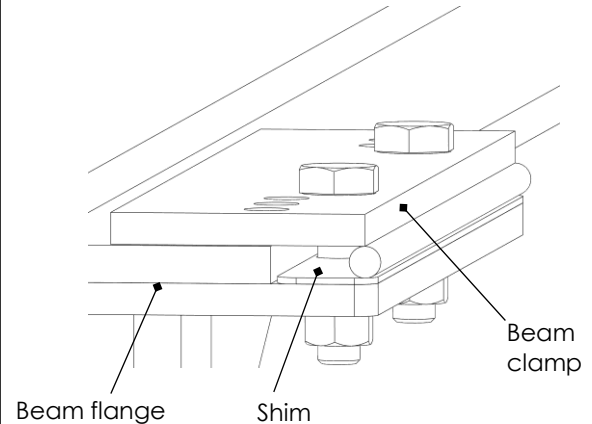


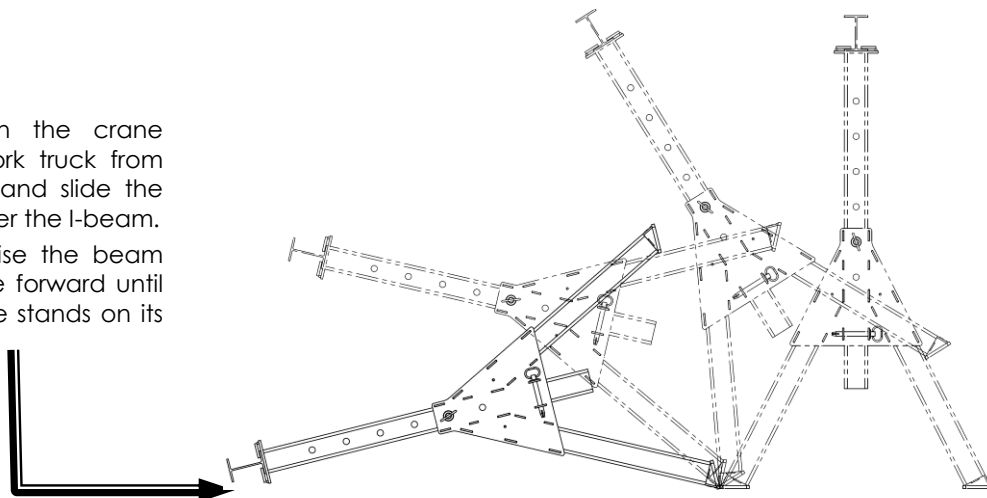
FIG. 4D: Beam-to-upright connection including shim


Step 5: Tighten the beam clamp nuts and bolts to 50 - 52 lb-ft of torque.

Step 6: Put the crane on its feet.

Rotate the crane onto its feet in a *controlled* manner. For instance, attach a hoist chain to the I-beam and *slowly* raise the beam until the crane stands on its feet. Alternatively, raise the crane with a fork truck. Position the forks under the I-beam and slowly raise the beam until the crane rotates onto its feet in a controlled manner.

Approach the crane with a fork truck from this side and slide the forks under the I-beam. Slowly raise the beam and drive forward until the crane stands on its feet.



Step 7: Connect the casters to the legs (diagrams below show standard casters).

- Raise the crane 8-10 inches off of the ground with a fork lift or hoist.
- Position a caster underneath each foot.
- Attach a caster to the foot of each leg using the hardware as shown in the diagrams below.

Fig. 7A: Caster attachment

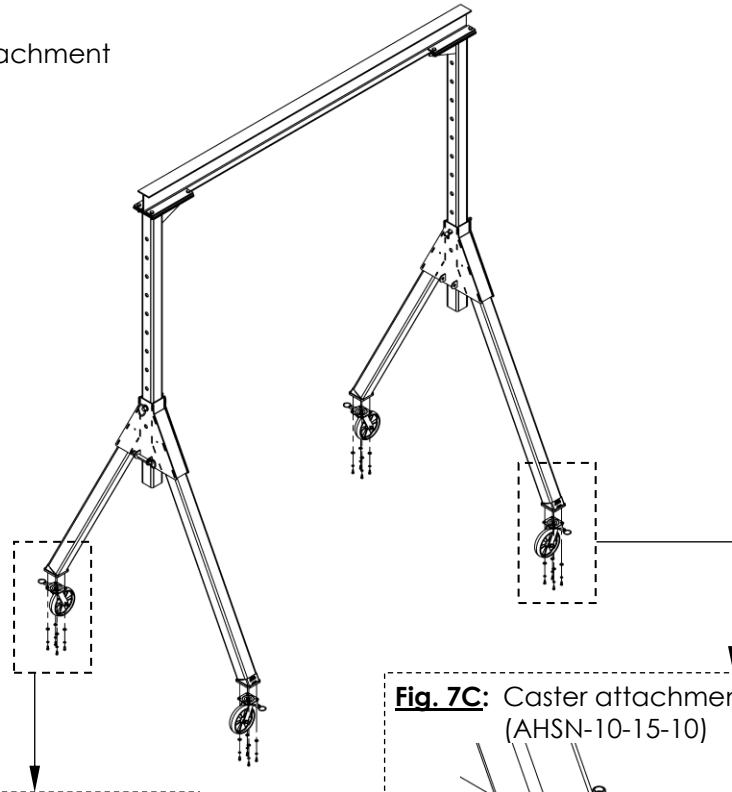
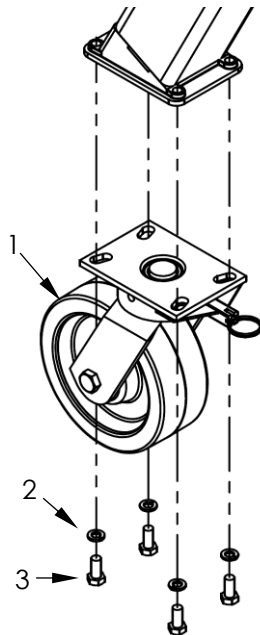


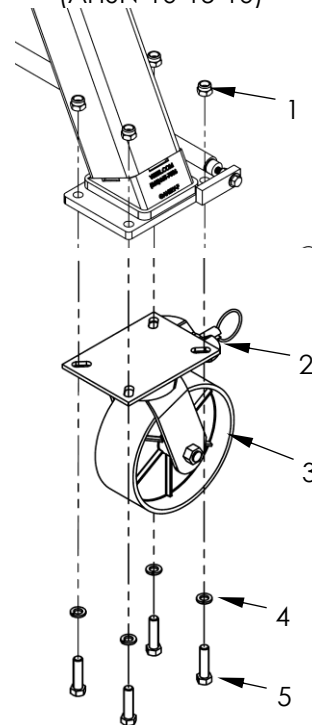
Fig. 7B: Caster attachment
(AHSN-2; AHSN-4; AHSN-6; and AHSN-8 models)



- 1 8"x3" phenolic 4-way swivel lock caster (16-132-064)
- 2 $\frac{7}{16}$ in. zinc-plated lock washer
- 3 $\frac{7}{16}$ in. - 14 x 1 in. HHCS #2 zinc-plated bolt

-OR-

Fig. 7C: Caster attachment
(AHSN-10-15-10)



- 1 $\frac{1}{2}$ in. - 13 lock nut (36109)
- 2 Batwing caster position lock (16-132-305)
- 3 Ø8in. x 3in. swivel caster (16-132-243)
- 4 $\frac{1}{2}$ in. split lock washer (33625)
- 5 $\frac{1}{2}$ in. - 13 x 2in. HHCS #5 zinc-plated

USING THE CRANE

Perform [Before and After Each Use](#) inspections (see p. 24) each time the crane is used.

⚠ WARNING

Risks of severe personal injury or death.

- Only trained, qualified crane operators should use this device. The operating instructions in this manual *supplement* safe crane and hoist operation practices learned during your training program.
- ALWAYS apply safe material handling practices learned during your training program.
- All personnel not participating in crane use must stay out of the crane operation area during use. Be certain no person or object is under any part of the boom (I-beam) or the suspended load at any time and particularly before lowering it. Instruct others to remain at a safe distance during operation.
- Always carefully watch the boom and any load hanging from it while using the crane.
- Always follow the hoist and trolley manufacturers' instructions regarding proper use of their products.
- BEFORE the load is connected to the hoist, lock or immobilize the casters (for instance with chocks).
- DO NOT use the crane and notify your supervisor and maintenance personnel if: 1) you observe any damage or hear unusual noise during operation; 2) if you observe any warping or deformation of the beam, the uprights, the load hook or chain (or cable).

Height adjustment

Support the I-beam so that the height adjustment pins can be removed, for instance with the tines of a fork truck or by attachment to an overhead hoist. Raise the beam to the desired height; then reinstall the adjustment pins. Each pin must extend completely through a yoke. See Fig. 8.

Proper loading

Position the trolley and hoist directly above the load. Proper centering requires the operator to center the trolley and hoist above the center of the load as well as to position the long axis of the I-beam above the center of the load. Proper positioning is diagrammed below in Fig 9.

FIG. 9: Loading the crane

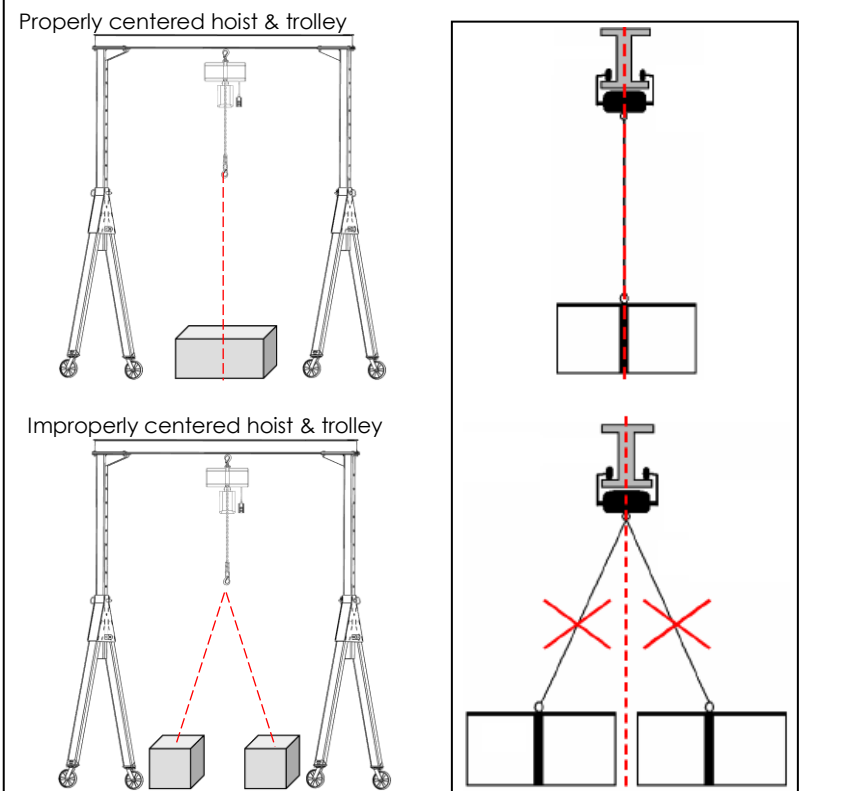
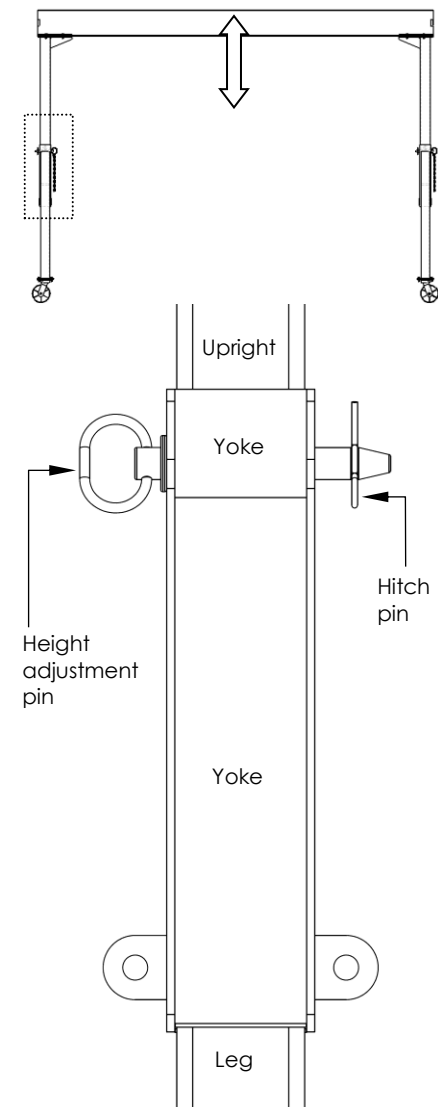


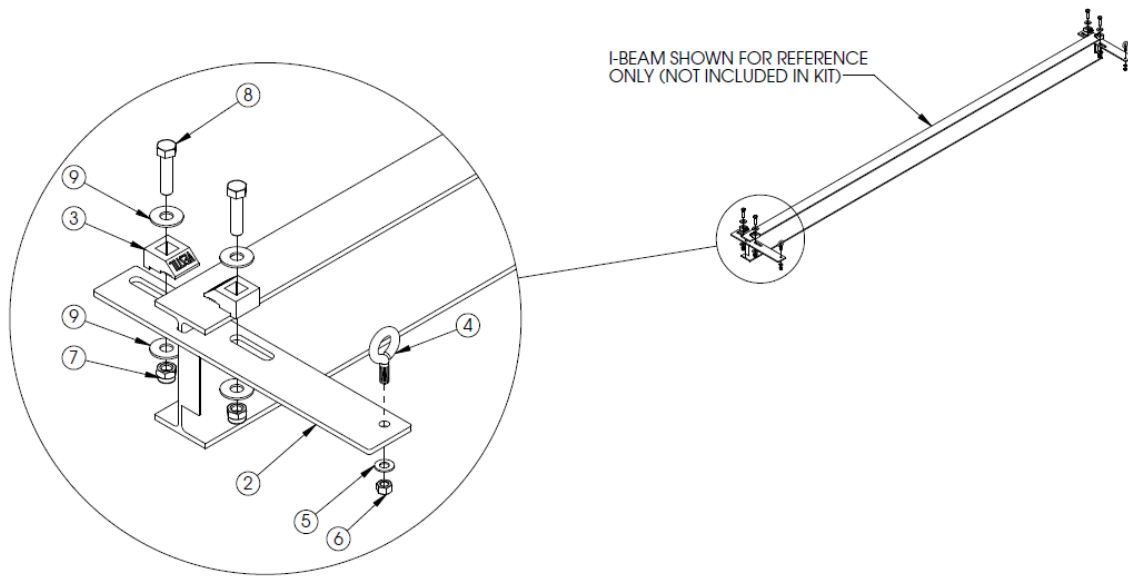
Fig. 8: Pin uprights at selected height



Connect the load to the hoist chain/cable, according to the instructions supplied with your hoist and the method applied at your work site; then raise the load only as high as is necessary to position it. Once the load is properly centered above the work location, lower the load until it is fully supported by the ground or work surface and disconnect the load from the hoist. Return the crane and hoist to their storage locations.

If you must move the load to a different location, return the load to the ground and disconnect it from the hoist. **Move the crane and load separately to the desired work location. Only use the crane to lift loads.**

FESTOON KIT (OPTION)



Item	Part no.	Description	Quantity
2	28-016-169	Hold down plate	2
3	28-145-002	I-beam clamp	4
4	42234	3/8 in. -16 x 1 in. turned eye bolt	2
5	33008	3/8 in. zinc-plated flat washer	2
6	36106	3/8 in. -16 zinc-plated hex nut	2
7	37030	1/2 in. - 13 nylon insert lock nut	4
8	11211	1/2 in. - 13 x 2 in. HHCS zinc-plated bolt	4
9	33012	1/2 in. zinc-plated USS flat washer	8
10	45503	1/8 in. wire rope (1 in. longer than 1-beam)	1
11	34785T4	Quick-grip wire rope clamp	2
12	CV200	Plastic cable tie	7
13	O-RING15	Metal ring	6
14	FCOIL 143-001	Coiled power cord	1

RECORD OF SATISFACTORY CONDITION (THE "RECORD")

Thoroughly inspect the crane after assembling it and before putting it into service. Record the condition and appearance of each of the frame members (I-beam, upright assemblies, yokes, and legs), the wheels and/or casters, beam clamp, and all fasteners (bolts, nuts, etc.). Thoroughly photograph the crane from multiple angles. Include close range photographs of the casters and/or wheels, all labeling, yoke connections, and all beam clamp connections. Add the photographs to the record. Collect all photographs and writings in a single file. This file is a record of the crane in satisfactory condition. Compare the results of all [INSPECTIONS](#) to this RECORD to determine whether the crane is in satisfactory condition. Do not use the crane unless it is in satisfactory condition. Purely cosmetic changes, like damaged paint or powdercoat, are not changes from satisfactory condition. However, touchup paint should be applied as soon as damage occurs.

NATIONAL STANDARDS

This product is a portable A-frame gantry crane (PGC). [ASME standard B30.17](#) (the "Standard") applies to PGC's. You should acquire a copy of the latest version of the standard. Follow all use and maintenance/care instructions provided in the Standard as well as all other provisions for PGC owners and users. If any content in this manual is inconsistent with a recommendation or mandatory provision in the Standard, apply the provision from the Standard. Vestil encourages you to immediately contact [TECHNICAL SERVICE](#) to report inconsistencies.

INSPECTIONS & MAINTENANCE

NOTE: Inspection procedures are included in the most current revision of ASME B30.17. As stated above in the [NATIONAL STANDARDS](#) section, Vestil recommends that you acquire a copy of the most recent revision of this standard. Apply all use and maintenance/care instructions in the standard. Vestil also recommends that you contact your local occupational health and safety authority to determine if any laws, regulations, codes, ordinances, etc. apply inspection requirements where the crane is used.

Inspections and all necessary repairs should be performed by qualified persons. Compare the results of each inspection to the [RECORD OF SATISFACTORY CONDITION](#). Do not use the crane unless every part is in satisfactory condition. **DON'T GUESS! If you have any questions about the condition of your crane, contact the [TECHNICAL SERVICE](#) department.** The phone number is provided on the cover page of this manual. Never make temporary repairs of damaged or missing parts. Only use manufacturer-approved replacement parts to restore the crane to satisfactory condition.

A. **Before and after each use**, including first use, unload the crane and inspect the following components:

- 1) **I-Beam** – Examine the beam, especially the lower flanges, for bends, cracks, and other damage.
- 2) **Beam clamps, beam clamp fasteners, and festoon kit (if installed)** – Clamp connections are shown in [STEP 2](#) on p. 19. Verify that all lock washers are fully compressed. Clamps must equally overlap I-beam flange.
- 3) **Beam brackets** – Look for cracks, elongations around bolt holes, warps, bends, etc.
- 4) **Casters and caster fasteners** – Examine each caster for cracks, warps, tears, grooves, pitting, and significant wear. Push the crane a short distance. All 4 casters should be in continuous contact with the ground. Confirm that the casters roll smoothly without wobbling or skidding. Make sure that caster fasteners are tightly connected. Fastener connections are shown in [STEP 5](#) on p. 20.
- 5) **Pins** – Check both adjustment pins. Pinned connections are shown in [STEPS 1A AND 1B](#) on p. 18. Both adjustment pins should be fully inserted and pin stops should be perpendicular to the pins to secure them in place. All 4 of the clevis pins should be fully inserted and secured in place with cotter pins.
- 6) **Yokes, Leg assemblies, and leg cross braces** – Inspect both yokes and all legs. Look for cracks, bends, warps, and other forms of damage. Pay particular attention to pin holes & bolt holes. Look for elongations, cracks, etc.

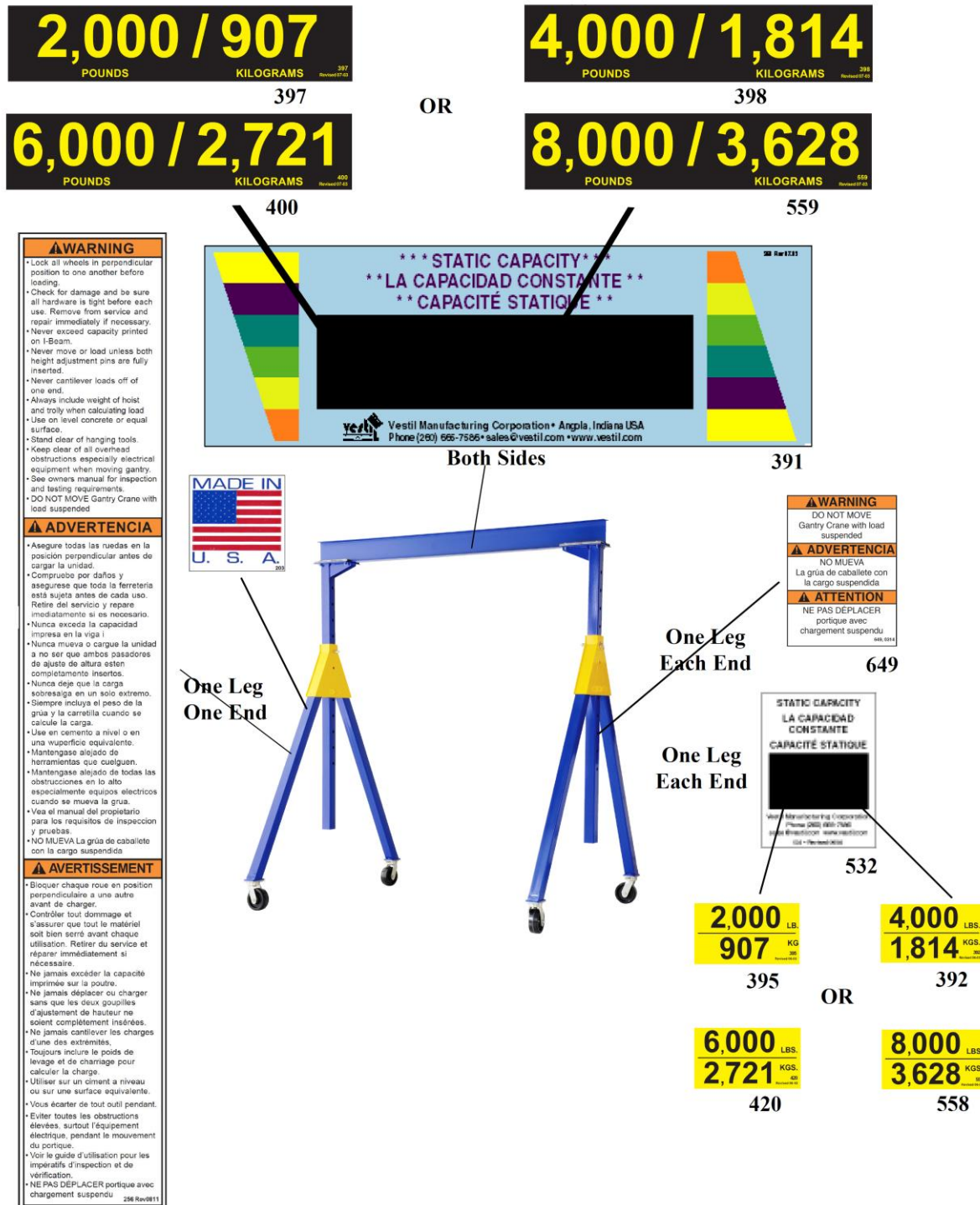
B. **Monthly inspections** – Unload the crane and inspect the following:

- 1) **Beam clamps, beam clamp fasteners, & festoon kit (if installed)** – Use a torque wrench to tighten each bolt and nut to 50-52ft·lb. Examine all of the clamps for damage such as deformations and cracks. The I-beam flange should be solidly/immovably clamped to the tops of the uprights.
- 2) Lay the crane over so that the I-beam is on the ground and inspect:
 - a) **Adjustment pins** – One at a time, remove each adjustment pin and examine it. Look for cracks, warps, pitting, and other forms of damage. Confirm that the pin stop operates normally. Reinsert each pin after inspecting it.
 - b) **Leg tubes** – Examine the pin holes in the top end of each leg. Look for elongations, cracks, and other forms of damage. Reinstall each leg once its inspection is finished.

C. **Once per year:** Perform a load test. Lift a load equal to 125% of its rated load (capacity). Only lift the load high enough to ensure that it is entirely supported by the crane. Transport the load by means of your hoist (or hoist & trolley) the full usable length of the I-beam (dimension E in [SPECIFICATIONS](#) diagram and table). Return the test load to the ground. Perform inspections A (Before and after each use) and B (Monthly). **NOTE:** Perform this part C (Load test and a Before & After Use inspection) whenever the crane is partially or fully disassembled and reassembled, e.g. after installing replacement parts.

LABELING DIAGRAM

Label content and location are subject to change so your product might not be labeled exactly as shown. Compare the diagram below to your [RECORD OF SATISFACTORY CONDITION](#). If there are any differences between actual labeling and this diagram, contact [TECHNICAL SERVICE](#). Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels or to inquire whether your unit is properly labeled, contact the technical service and parts department online at <https://www.vestil.com/page-parts-request.php> or by calling (260) 665-7586 and asking for the Parts Department.





LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

US Mail
Vestil Manufacturing Company
2999 North Wayne Street, PO Box 507
Angola, IN 46703

Fax
(260) 665-1339
Phone
(260) 665-7586

Email
info@vestil.com
Write "Warranty service request"
in the subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 1 year. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.