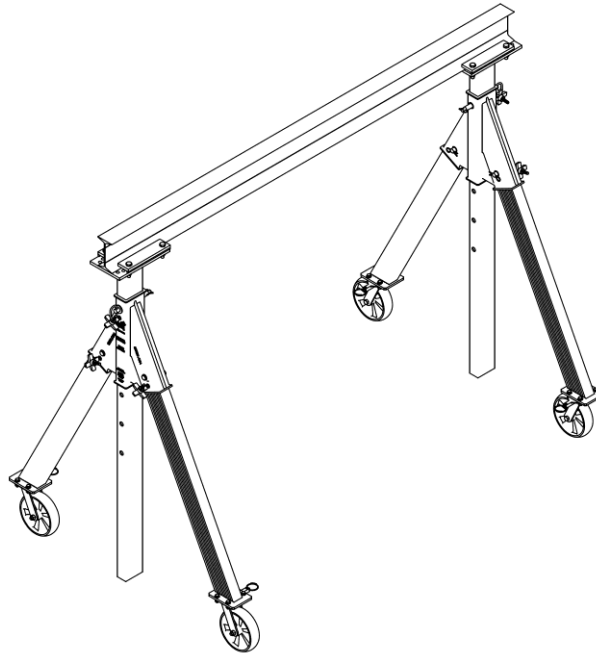


AHA-SERIES ALUMINUM ADJUSTABLE-HEIGHT GANTRY CRANES



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 http://www.vestilmfg.com/parts_info.htm.

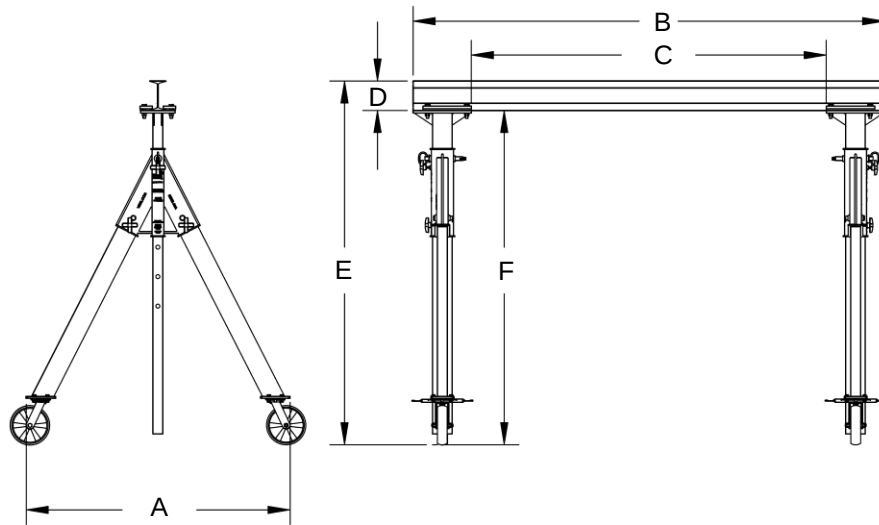
Electronic copies of Instruction Manuals

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

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SPECIFICATIONS

Dimensions, net weight, and capacity information for each AHA-series crane are provided in the tables on pages 2, 3, and 4. However, product design changes might alter specifications, particularly dimensions and net weight, for 1 or more model. Specifications documents for AHA-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=522> or <https://www.vestil.com/product.php?FID=523>. 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 model listed in the following tables might be discontinued between revisions of this manual.



Model	A: Overall width	B: Overall Beam Length	C: Usable beam length	D: Beam height	E: Overall height	F: Usable height range	Capacity	Net Weight
AHA-2-8-8	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(74-104) in. (188-264.2) cm	(68 – 98) in. (30.9 – 44.5) cm	2,000 lb. 909 kg	276 lb. 125.5 kg
AHA-2-8-10	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(98-128) in. (249 - 325) cm	(92 – 122) in. (233.7 – 309.9) cm	2,000 lb. 909 kg	277 lb. 125.9 kg
AHA-2-8-12	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(120 – 150) in. (304.8 – 381) cm	(114 – 144) in. (289.6 – 365.8) cm	2,000 lb. 909 kg	287 lb. 130.5 kg
AHA-2-10-8	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(74 – 104) in. (188 – 264.2) cm	(68 – 98) in. (172.7 – 248.9) cm	2,000 lb. 909 kg	272 lb. 123.6 kg
AHA-2-10-10	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(98 – 128) in. (248.9 – 325.1) cm	(92 – 122) in. (233.7 – 309.9) cm	2,000 lb. 909 kg	293 lb. 133.2 kg
AHA-2-10-12	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(120 – 150) in. (304.8 – 381) cm	(114 – 144) in. (289.6 – 365.8) cm	2,000 lb. 909 kg	305 lb. 138.6 kg
AHA-2-12-8	53 ¹³ / ₁₆ in. 136.7 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(76 – 106) in. (193 – 268.2) cm	(68 – 98) in. (172.7 – 248.9) cm	2,000 lb. 909 kg	307 lb. 139.5 kg
AHA-2-12-10	53 ¹³ / ₁₆ in. 136.7 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(100 – 130) in. (254 – 330.2) cm	(92 – 122) in. (233.7 – 309.9) cm	2,000 lb. 909 kg	315 lb. 143.2 kg
AHA-2-12-12	53 ¹³ / ₁₆ in. 136.7 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(122 – 152) in. (309.9 – 386.1) cm	(114 – 144) in. (289.6 – 365.8) cm	2,000 lb. 909 kg	327 lb. 148.6 kg
AHA-2-15-8	53 ¹³ / ₁₆ in. 136.7 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	8 in. 20.3 cm	(76 – 106) in. (193 – 269.2) cm	(68 – 98) in. (172.7 – 248.9) cm	2,000 lb. 909 kg	360 lb. 163.6 kg
AHA-2-15-10	53 ¹³ / ₁₆ in. 136.7 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	8 in. 20.3 cm	(100 – 130) in. (254 – 330.2) cm	(92 – 122) in. (233.7 – 309.9) cm	2,000 lb. 909 kg	405 lb. 184.1 kg
AHA-2-15-12	53 ¹³ / ₁₆ in. 136.7 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	8 in. 20.3 cm	(122 – 152) in. (309.9 – 386.1) cm	(114 – 144) in. (289.6 – 365.8) cm	2,000 lb. 909 kg	412 lb. 187.3 kg
AHA-4-8-8	53 ¹⁵ / ₁₆ in. 137 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	8 in. 20.3 cm	(76 ¹ / ₈ – 106 ¹ / ₈) in. (193.5 – 269.7) cm	(68 ¹ / ₈ – 98 ¹ / ₈) in. (173.2 – 249.4) cm	4,000 lb. 1,818 kg	353 lb. 160.5 kg
AHA-4-8-10	53 ¹⁵ / ₁₆ in. 137 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	8 in. 20.3 cm	(100 ¹ / ₈ – 130 ¹ / ₈) in. (254.3 – 330.5) cm	(92 ¹ / ₈ – 122 ¹ / ₈) in. (234 – 310.2) cm	4,000 lb. 1,818 kg	346 lb. 157.3 kg
AHA-4-8-12	53 ¹⁵ / ₁₆ in. 137 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	8 in. 20.3 cm	(122 ¹ / ₈ – 152 ¹ / ₈) in. (310.2 – 386.4) cm	(114 ¹ / ₈ – 144 ¹ / ₈) in. (289.9 – 366.1) cm	4,000 lb. 1,818 kg	372 lb. 169.1 kg
AHA-4-10-8	53 ¹⁵ / ₁₆ in. 137 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	8 in. 20.3 cm	(76 ¹ / ₈ – 106 ¹ / ₈) in. (193.5 – 269.7) cm	(68 ¹ / ₈ – 98 ¹ / ₈) in. (173.2 – 249.4) cm	4,000 lb. 1,818 kg	339 lb. 135.5 kg

AHA-4-10-10	53 ¹⁵ / ₁₆ in. 137 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	8 in. 20.3 cm	(100 ¹ / ₈ – 130 ¹ / ₈) in. (254.3 – 330.5) cm	(92 ¹ / ₈ – 122 ¹ / ₈) in. (234 – 310.2) cm	4,000 lb. 1,818 kg	348 lb. 158.2 kg
AHA-4-10-12	53 ¹⁵ / ₁₆ in. 137 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	8 in. 20.3 cm	(122 ¹ / ₈ – 152 ¹ / ₈) in. (310.2 – 386.4) cm	(114 ¹ / ₈ – 144 ¹ / ₈) in. (289.9 – 366.1) cm	4,000 lb. 1,818 kg	390 lb. 177.3 kg
AHA-4-12-8	53 ¹⁵ / ₁₆ in. 137 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(76 ¹ / ₈ – 106 ¹ / ₈) in. (193.4 – 269.6) cm	(68 ¹ / ₈ – 98 ¹ / ₈) in. (173.2 – 249.4) cm	4,000 lb. 1,818 kg	353 lb. 160.5 kg
AHA-4-12-10	53 ¹⁵ / ₁₆ in. 137 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(100 ¹ / ₈ – 130 ¹ / ₈) in. (254.3 – 330.5) cm	(92 ¹ / ₈ – 122 ¹ / ₈) in. (234 – 310.2) cm	4,000 lb. 1,818 kg	366 lb. 166.4 kg
AHA-4-12-12	53 ¹⁵ / ₁₆ in. 137 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(122 ¹ / ₈ – 152 ¹ / ₈) in. (310.2 – 386.4) cm	(114 ¹ / ₈ – 144 ¹ / ₈) in. (289.9 – 366.1) cm	4,000 lb. 1,818 kg	391 lb. 177.7 kg
AHA-4-15-8	53 ¹⁵ / ₁₆ in. 137 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	10 in. 25.4 cm	(78 ¹ / ₈ – 108 ¹ / ₈) in. (198.4 – 274.6) cm	(68 ¹ / ₈ – 98 ¹ / ₈) in. (173.2 – 249.4) cm	4,000 lb. 1,818 kg	399 lb. 181.4 kg
AHA-4-15-10	53 ¹⁵ / ₁₆ in. 137 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	10 in. 25.4 cm	(102 ¹ / ₈ – 132 ¹ / ₈) in. (259.4 – 335.6) cm	(92 ¹ / ₈ – 122 ¹ / ₈) in. (234 – 310.2) cm	4,000 lb. 1,818 kg	441 lb. 200.5 kg
AHA-4-15-12	53 ¹⁵ / ₁₆ in. 137 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	10 in. 25.4 cm	(124 ¹ / ₈ – 154 ¹ / ₈) in. (315.3 – 391.5) cm	(114 ¹ / ₈ – 144 ¹ / ₈) in. (289.9 – 366.1) cm	4,000 lb. 1,818 kg	442 lb. 200.9 kg
AHA-6-8-8	64 ¹¹ / ₁₆ in. 164.3 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	10 in. 25.4 cm	(84 – 108) in. (213.4 – 274.3) cm	(74 – 98) in. (188 – 249) cm	6,000 lb. 2,727 kg	444 lb. 201.8 kg
AHA-6-8-10	64 ¹¹ / ₁₆ in. 164.3 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	10 in. 25.4 cm	(108 – 132) in. (274.3 – 335.3) cm	(98 – 122) in. (248.9 – 309.9) cm	6,000 lb. 2,727 kg	599 lb. 272.3 kg
AHA-6-8-12	64 ¹¹ / ₁₆ in. 164.3 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	10 in. 25.4 cm	(132 – 156) in. (335.3 – 396.2) cm	(122 – 146) in. (309.9 – 370.8) cm	6,000 lb. 2,727 kg	602 lb. 273.6 kg
AHA-6-10-8	64 ¹¹ / ₁₆ in. 164.3 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	10 in. 25.4 cm	(84 – 108) in. (213.4 – 274.3) cm	(74 – 98) in. (188.0 – 248.9) cm	6,000 lb. 2,727 kg	476 lb. 216.4 kg
AHA-6-10-10	64 ¹¹ / ₁₆ in. 164.3 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	10 in. 25.4 cm	(108 – 132) in. (274.3 – 335.3) cm	(98 – 122) in. (248.9 – 309.9) cm	6,000 lb. 2,727 kg	494 lb. 224.5 kg
AHA-6-10-12	64 ¹¹ / ₁₆ in. 164.3 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	10 in. 25.4 cm	(132 – 156) in. (335.3 – 396.2) cm	(122 – 146) in. (309.9 – 370.8) cm	6,000 lb. 2,727 kg	515 lb. 234.1 kg
AHA-6-12-8	64 ¹¹ / ₁₆ in. 164.3 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	12 in. 30.5 cm	(86 – 110) in. (218.4 – 279.4) cm	(74 – 98) in. (188 – 249) cm	6,000 lb. 2,727 kg	757 lb. 344.1 kg
AHA-6-12-10	64 ¹¹ / ₁₆ in. 164.3 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	12 in. 30.5 cm	(110 – 134) in. (279.4 – 340.4) cm	(98 – 122) in. (248.9 – 309.9) cm	6,000 lb. 2,727 kg	775 lb. 352.3 kg
AHA-6-12-12	64 ¹¹ / ₁₆ in. 164.3 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	12 in. 30.5 cm	(134 – 158) in. (340.4 – 401.3) cm	(122 – 146) in. (309.9 – 370.8) cm	6,000 lb. 2,727 kg	777 lb. 353.2 kg
AHA-6-15-8	64 ¹¹ / ₁₆ in. 164.3 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	12 in. 30.5 cm	(86 – 110) in. (218.4 – 279.4) cm	(74 – 98) in. (188 – 249) cm	6,000 lb. 2,727 kg	856 lb. 389.1 kg
AHA-6-15-10	64 ¹¹ / ₁₆ in. 164.3 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	12 in. 30.5 cm	(110 – 134) in. (279.4 – 340.4) cm	(98 – 122) in. (248.9 – 309.9) cm	6,000 lb. 2,727 kg	874 lb. 397.3 kg
AHA-6-15-12	64 ¹¹ / ₁₆ in. 164.3 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 cm	12 in. 30.5 cm	(134 – 158) in. (340.4 – 401.3) cm	(122 – 146) in. (309.9 – 370.8) cm	6,000 lb. 2,727 kg	894 lb. 406.4 kg

Adjustable Height Aluminum Gantry Cranes with Pneumatic Casters (suffix –PNU)

AHA-15-8-8-PNU	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(80 ¹ / ₄ – 110 ¹ / ₄) in. (203.8 – 280.0) cm	(74 ¹ / ₄ – 104 ¹ / ₄) in. (188.6 – 264.8) cm	1,500 lb. 681.8 kg	268 lb. 121.8 kg
AHA-15-8-10-PNU	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(104 ¹ / ₄ – 134 ¹ / ₄) in. (264.8 – 341.0) cm	(98 ¹ / ₄ – 128 ¹ / ₄) in. (249.6 – 325.8) cm	1,500 lb. 681.8 kg	279 lb. 126.8 kg
AHA-15-8-12-PNU	53 ³ / ₄ in. 136.5 cm	96 in. 243.8 cm	72 ¹ / ₄ in. 183.5 cm	6 in. 15.2 cm	(126 ¹ / ₄ – 156 ¹ / ₄) in. (320.7 – 396.8) cm	(120 ¹ / ₄ – 150 ¹ / ₄) in. (305.4 – 381.6) cm	1,500 lb. 681.8 kg	288 lb. 130.9 kg
AHA-15-10-8-PNU	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(80 ¹ / ₄ – 110 ¹ / ₄) in. (203.8 – 280.0) cm	(74 ¹ / ₄ – 104 ¹ / ₄) in. (188.6 – 264.8) cm	1,500 lb. 681.8 kg	275 lb. 125 kg
AHA-15-10-10-PNU	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(104 ¹ / ₄ – 134 ¹ / ₄) in. (264.8 – 341.0) cm	(98 ¹ / ₄ – 128 ¹ / ₄) in. (249.6 – 325.8) cm	1,500 lb. 681.8 kg	286 lb. 130 kg
AHA-15-10-12-PNU	53 ³ / ₄ in. 136.5 cm	120 in. 304.8 cm	96 ¹ / ₄ in. 244.5 cm	6 in. 15.2 cm	(126 ¹ / ₄ – 156 ¹ / ₄) in. (320.7 – 396.8) cm	(120 ¹ / ₄ – 150 ¹ / ₄) in. (305.4 – 381.6) cm	1,500 lb. 681.8 kg	295 lb. 134.1 kg
AHA-15-12-8-PNU	53 ³ / ₄ in. 136.5 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(82 ¹ / ₄ – 112 ¹ / ₄) in. (208.9 – 285.1) cm	(74 ¹ / ₄ – 104 ¹ / ₄) in. (188.6 – 264.8) cm	1,500 lb. 681.8 kg	297 lb. 135 kg
AHA-15-12-10-PNU	53 ³ / ₄ in. 136.5 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(106 ¹ / ₄ – 136 ¹ / ₄) in. (269.9 – 346.1) cm	(98 ¹ / ₄ – 128 ¹ / ₄) in. (249.6 – 325.8) cm	1,500 lb. 681.8 kg	308 lb. 140 kg
AHA-15-12-12-PNU	53 ³ / ₄ in. 136.5 cm	144 in. 365.8 cm	120 ¹ / ₄ in. 305.4 cm	8 in. 20.3 cm	(128 ¹ / ₄ – 158 ¹ / ₄) in. (325.8 – 402.0) cm	(120 ¹ / ₄ – 150 ¹ / ₄) in. (305.4 – 381.6) cm	1,500 lb. 681.8 kg	317 lb. 144.1 kg
AHA-15-15-8-PNU	53 ³ / ₄ in. 136.5 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 kg	8 in. 20.3 cm	(82 ¹ / ₄ – 112 ¹ / ₄) in. (208.9 – 285.1) cm	(74 ¹ / ₄ – 104 ¹ / ₄) in. (188.6 – 264.8) cm	1,500 lb. 681.8 kg	348 lb. 158.2 kg
AHA-15-15-10-PNU	53 ³ / ₄ in. 136.5 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 kg	8 in. 20.3 cm	(106 ¹ / ₄ – 136 ¹ / ₄) in. (269.9 – 346.1) cm	(98 ¹ / ₄ – 128 ¹ / ₄) in. (249.6 – 325.8) cm	1,500 lb. 681.8 kg	359 lb. 163.2 kg
AHA-15-15-12-PNU	53 ³ / ₄ in. 136.5 cm	180 in. 457.2 cm	156 ¹ / ₄ in. 396.9 kg	8 in. 20.3 cm	(128 ¹ / ₄ – 158 ¹ / ₄) in. (325.8 – 402.0) cm	(120 ¹ / ₄ – 150 ¹ / ₄) in. (305.4 – 381.6) cm	1,500 lb. 681.8 kg	368 lb. 167.3 kg

Optional Equipment	Description
AHA-2/4-TLC	TOTAL LOCKING CASTERS (SET OF 4; ONLY FOR 2,000 & 4,000LB. CAPACITY MODELS)
AHA-PNU-RF	RETROFIT FOUR-WAY LOCKING PNEUMATIC CASTERS (1,500 POUND CAPACITY)
AHA-2/4-V	8IN. X 2IN. V-GROOVE WHEELS (SET OF 4; 2,000 & 4,000LB. CAPACITY MODELS ONLY)
AHA-2/4-V4	8IN. X 2IN. V-GROOVE WHEELS (SET OF 4 WITH 4-POSITION LOCK; ONLY 2,000 & 4,000LB. CAPACITY MODELS)
AHA-KIT	(2) COME-ALONG FOR HEIGHT ADJUSTMENT ONLY

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, <u>WILL</u> 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

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, such as in a plastic pouch attached to the frame.** These instructions supplement safe crane operation practices learned during your training program and comply with ASME B30.17 for portable gantry cranes.

DANGER

Electrocution could 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.

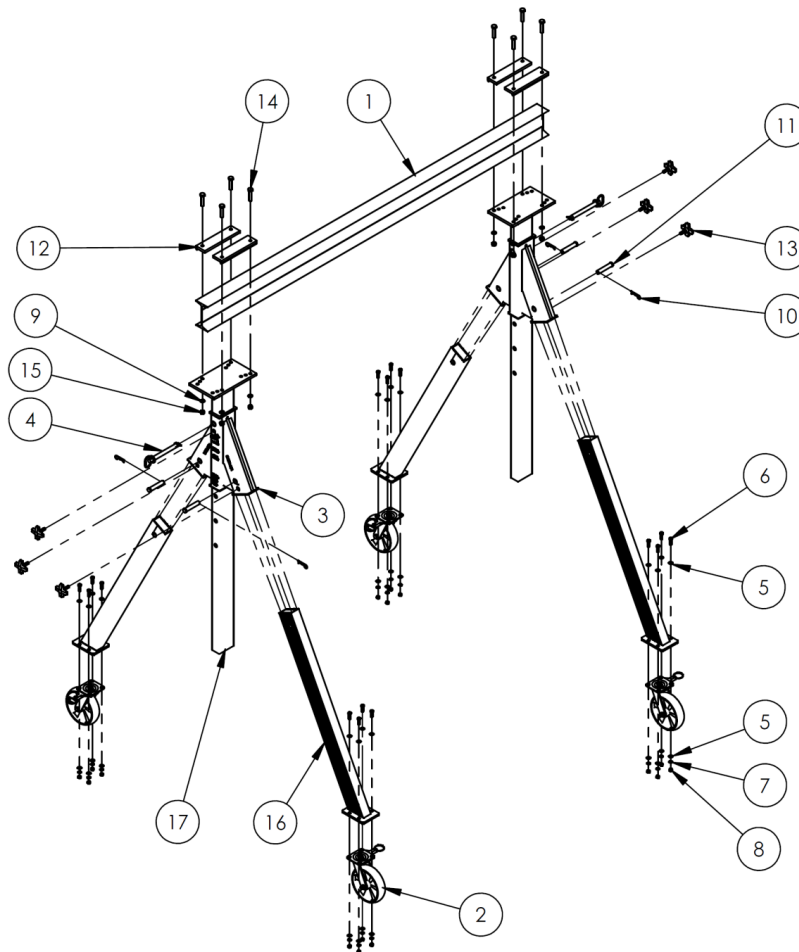
WARNING

Improper or careless operation can result in serious injury or death. To reduce the risk of injury:

- **Operator Training:** Operating without proper training can lead to misuse. Only trained, authorized personnel should use the crane. Read and understand this manual in its entirety before using the crane.
- **Pre-Use Inspections:** Inspect the crane and usage area before each use per INSPECTIONS instructions on p. 22-23. Ensure the ground is clear of debris. Do not use unless in SATISFACTORY CONDITION. See [RECORD OF SATISFACTORY CONDITION](#), p. 21-22.
- **Load Capacity:** Exceeding the crane's capacity can cause collapse. Do not lift loads heavier than the rated capacity. See [SPECIFICATIONS](#), p. 2-4; [LABELING DIAGRAM](#), p. 23.
- **Height Adjustment:** Adjusting height under load or without securing components can cause structural failure. Do not adjust height under load. Secure the hoist/trolley in the center of the I-beam and ensure adjustment pins are fully inserted with pin stops perpendicular before use.
- **Stability:** Unsecured cranes can move during lifting, causing load swinging or tipping. Before lifting, lock all casters or secure the crane (e.g., with chocks) to prevent movement. Use only on even, level ground.
- **Environmental Hazards:** Operating in high winds, on uneven or soft surfaces, or in adverse weather can cause instability, leading to tipping. Do not use in high winds or hazardous conditions.
- **Suspended Loads:** Standing under a suspended load can result in being struck by falling objects. Keep clear of suspended loads and instruct others to stay clear during operation.
- **Personnel Safety:** Lifting people or allowing climbing on the crane or load can lead to falls. Do not lift people or allow climbing.
- **Operation:** Using vehicles to move the crane or improper movement can cause loss of control. Move the crane carefully by hand. Do not stand under the I-beam. Do not operate manual motions with other than manual power.
- **Loading:** Not centering the load can cause load swinging, leading to loss of control and serious injury. Ensure the load is centered under the hoist per [LOADING THE CRANE](#) recommendations on p. 21.
- **Labels:** Missing or unreadable labels can lead to misuse, causing accidents. Ensure all labels are readable and intact. Contact Vestil for replacements if damaged or missing. See [LABELING DIAGRAM](#), p. 23.
- **Modifications:** Unauthorized modifications can compromise safety, leading to accidents. Do not modify the crane without written approval from Vestil, as this voids the [LIMITED WARRANTY](#).
- **Purpose:** Using the crane for transportation can cause instability. Use only for lifting, not transporting loads.

FIGURE 1: Exploded View of AHA-2-8-8, AHA-2-8-10, & AHA-2-8-12

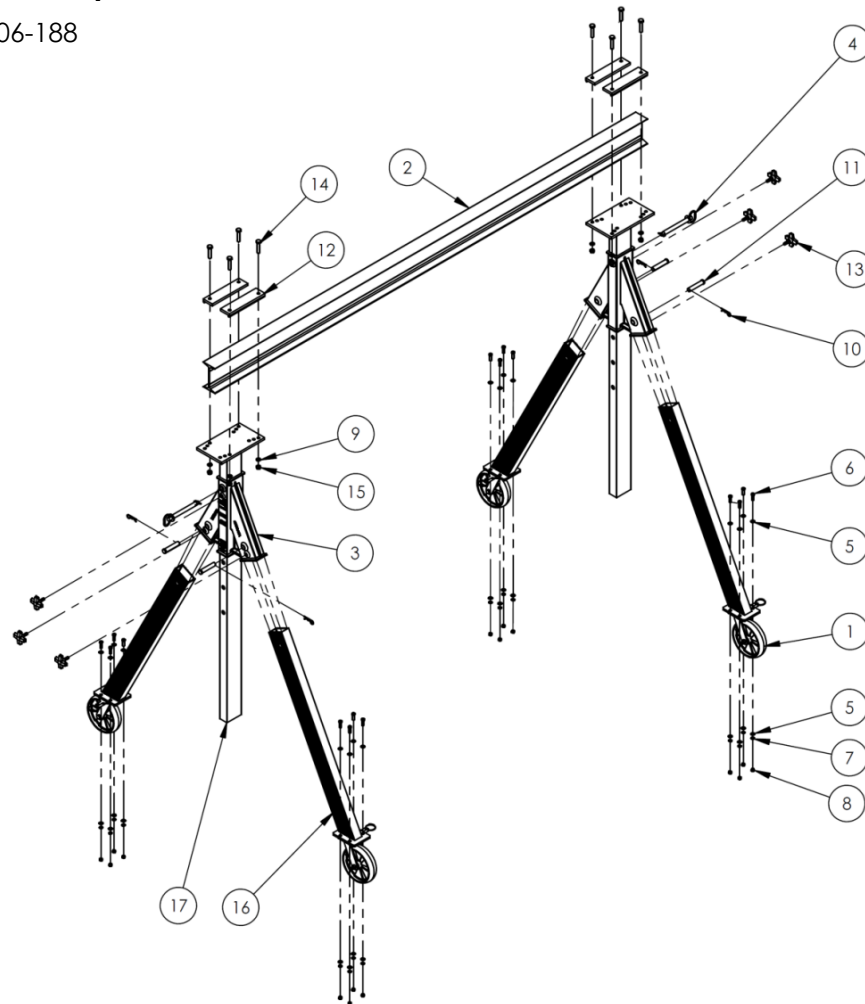
28-006-187



Item	Part no.	Description	Quantity
1	28-014-986-001	6in. (H) x 3.314 in. (W) x 96 in. (L) inch aluminum I-beam	1
2	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4
3	28-014-190	Casting, aluminum 2k yoke	2
4	28-112-007	Pin, retaining, 3/4 in. x 6 in. usable length	2
5	33082	3/8 in. zinc plated SAE flat washer	32
6	11107	3/8 in. – 16 x 1 1/4 HHCS #2 zinc-plated bolt	16
7	33622	3/8 in. zinc plated lock washer	16
8	36106	3/8 in. – 16 zinc plated hex nut	16
9	33626	1/2 in. zinc-plated lock washer	8
10	45286	1/8 in. x 2 5/8 in. #11 hitch pin clip	4
11	33-112-034	Pin, clevis, 3/4 in. x 3 1/2 in. usable length	4
12	28-516-054	I-beam clamp weldment	4
13	08-025-007	Knob, 3/8 in. – 16 UNC THD x 1 1/4 long	6
14 & 15	11134585	Structural nut and bolt combo: 1/2 in. – 13 x 2 1/2 in. A325 galvanized 1/2 in. – 13 A325 galvanized	8
16	28-514-220	2k leg tube weldment	4
17	28-514-227 28-514-228 28-514-229	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-2-8-8 AHA-2-8-10 AHA-2-8-12	2 2 2

FIGURE 2: Exploded View of AHA-2-10-8, AHA-2-10-10, & AHA-2-10-12

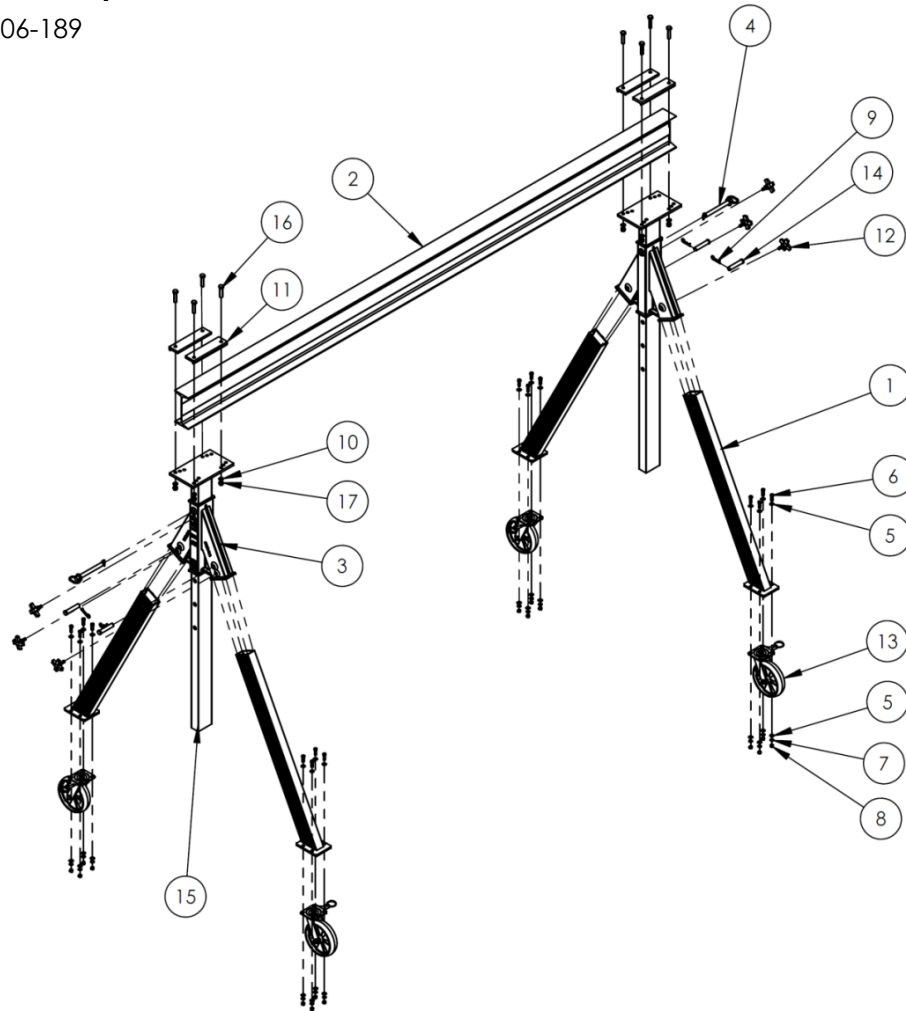
28-006-188



Item	Part no.	Description	Quantity
1	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4
2	28-014-986-002	6in. (H) x 3.314 in. (W) x 120 in. (L) inch aluminum I-beam	1
3	28-014-190	Casting, aluminum 2k yoke	2
4	28-112-007	Pin, retaining, 3/4 in. x 6 in. usable length	2
5	33082	3/8 in. zinc plated SAE flat washer	32
6	11107	3/8 in. – 16 x 1 1/4 HHCS #2 zinc-plated bolt	16
7	33622	3/8 in. zinc plated lock washer	16
8	36106	3/8 in. – 16 zinc plated hex nut	16
9	33626	1/2 in. zinc-plated lock washer	8
10	45286	1/8 in. x 2 5/8 in. #11 hitch pin clip	4
11	33-112-034	Pin, clevis, 3/4 in. x 3 1/2 in. usable length	4
12	28-516-054	I-beam clamp weldment	4
13	08-025-007	3/8 in. – 16 UNC threaded knob, TT-18-PED	6
14 & 15	11134585	1/2 in. – 13 x 2 1/2 in. A325 galvanized structural nut & bolt combo 1/2 in. – 13 A325 galvanized structural nut & bolt combo	8
16	28-514-220	2k leg tube weldment	4
17	28-514-227 28-514-228 28-514-229	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-2-10-8 AHA-2-10-10 AHA-2-10-12	2 2 2

FIGURE 3: Exploded View of AHA-2-12-8, AHA-2-12-10, & AHA-2-12-12

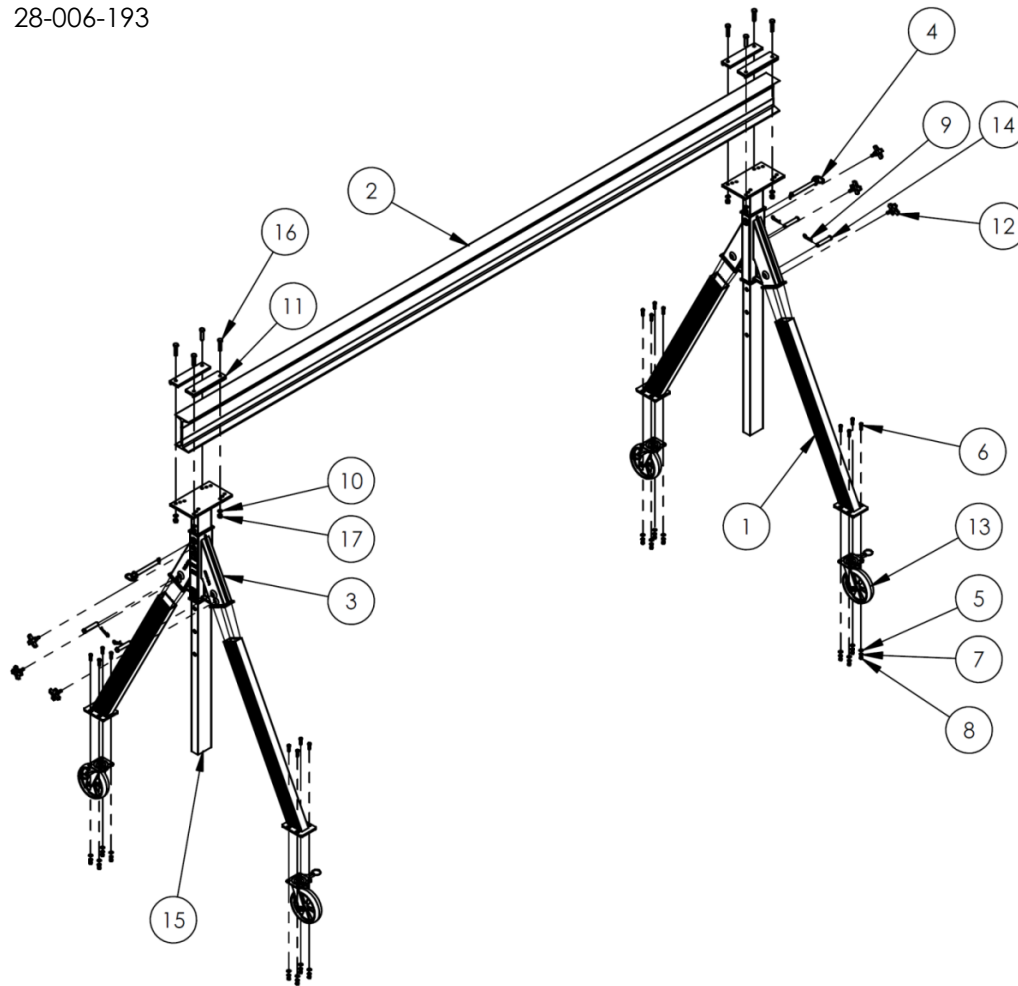
28-006-189



Item	Part no.	Description	Quantity
1	28-514-220	2k leg tube weldment	4
2	28-014-987-002	8 in. (H) x 4 in. (W) x 144 in. (L) aluminum I-beam	1
3	28-014-190	Casting, aluminum 2k yoke	2
4	28-112-007	Pin, retaining 3/4 in. x 6 in. usable length	2
5	33082	3/8 in. zinc plated SAE flat washer	32
6	11107	3/8 in. – 16 x 1 1/4 HHCS #2 zinc-plated bolt	16
7	33622	3/8 in. zinc plated lock washer	16
8	36106	3/8 in. – 16 zinc plated hex nut	16
9	45286	1/8 in. x 2 5/8 in. #11 hitch pin clip	4
10	33626	1/2 in. zinc-plated lock washer	8
11	28-516-054	I-beam clamp weldment	4
12	08-025-007	3/8 in. – 16 UNC threaded knob, TT-18-PED	6
13	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4
14	33-112-034	Pin, clevis, 3/4 in. x 3 1/2 in. usable length	4
15	28-514-227 28-514-228 28-514-229	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-2-12-8 AHA-2-12-10 AHA-2-12-12	2 2 2
16 & 17	11134585	1/2 in. – 13 x 2 1/2 in. A325 galvanized structural nut & bolt combo 1/2 in. – 13 A325 galvanized structural nut & bolt combo	8

FIGURE 4: Exploded View of AHA-2-15-8, AHA-2-15-10, & AHA-2-15-12

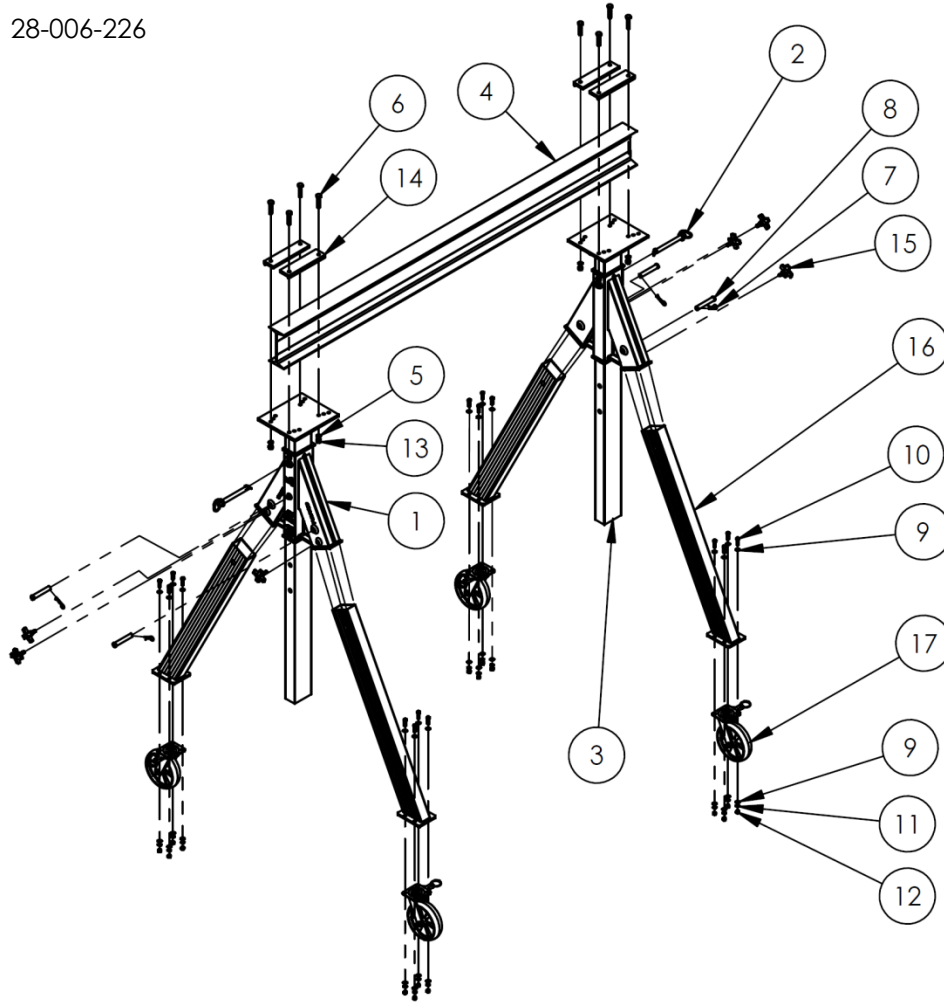
28-006-193



Item	Part no.	Description	Quantity
1	28-514-220	2k leg tube weldment	4
2	28-014-988-004	8 in. (H) x 4.17 in. (W) x 180 in. (L) aluminum I-beam	1
3	28-014-190	Casting, aluminum 2k yoke	2
4	28-112-007	Retaining, pin, 3/4 in. x 6 in. usable length	2
5	33082	3/8 in. zinc plated SAE flat washer	32
6	11107	3/8 in. – 16 x 1 1/4 HHCS #2 zinc-plated bolt	16
7	33622	3/8 in. zinc plated lock washer	16
8	36106	3/8 in. – 16 zinc plated hex nut	16
9	45286	1/8 in. x 2 5/8 in. #11 hitch pin clip	4
10	33626	1/2 in. zinc-plated lock washer	8
11	28-516-054	I-beam clamp weldment	4
12	08-025-007	3/8 in. – 16 UNC threaded knob, TT-18-PED	6
13	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4
14	33-112-034	Pin, clevis, 3/4 in. x 3 1/2 in. usable length	4
15	28-514-227 28-514-228 28-514-229	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-2-15-8 AHA-2-15-10 AHA-2-15-12	2 2 2
16 & 17	11134585	1/2 in. – 13 x 2 1/2 in. A325 galvanized structural nut & bolt combo 1/2 in. – 13 A325 galvanized structural nut & bolt combo	8

FIGURE 5: Exploded View of AHA-4-8-8, AHA-4-8-10, & AHA-4-8-12

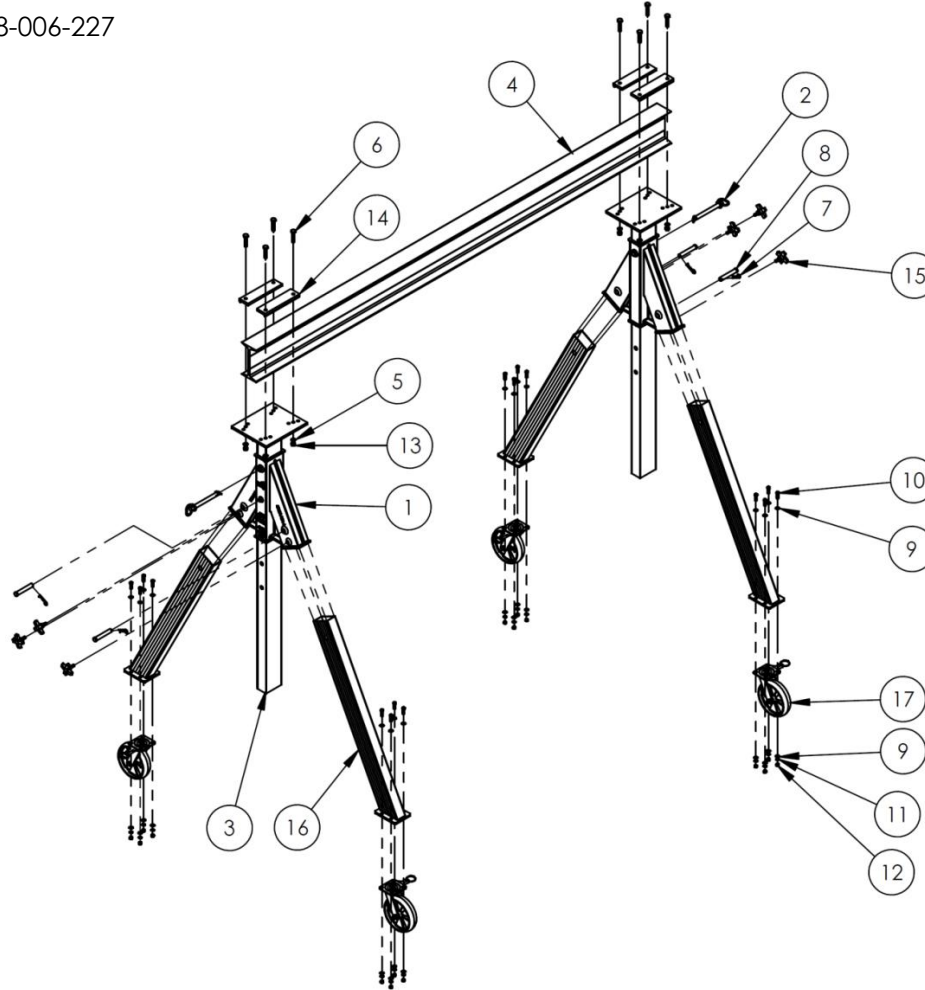
28-006-226



Item	Part no.	Description	Quantity
1	28-014-272	Aluminum 4k gantry casting	2
2	28-112-007	Retaining, pin, $\frac{3}{4}$ in. x 6 in. usable length	2
3	28-514-230 28-514-231 28-514-232	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-4-8-8 AHA-4-8-10 AHA-4-8-12	2 2 2
4	28-014-987-001	8 in. (H) x 4 in. (W) x 96 in. (L) aluminum I-beam	1
5	33626	$\frac{1}{2}$ in. zinc-plated lock washer	8
6 & 13	11134585	$\frac{1}{2}$ in. – 13 x $2\frac{1}{2}$ in. A325 galvanized structural nut & bolt combo $\frac{1}{2}$ in. – 13 A325 galvanized structural nut & bolt combo	8
7	45286	$\frac{1}{8}$ in. x $2\frac{5}{8}$ in. #11 hitch pin clip	4
8	28-112-031	Pin, clevis, $\frac{3}{4}$ in. x $4\frac{1}{4}$ in. usable length	4
9	33082	$\frac{3}{8}$ in. zinc plated SAE flat washer	32
10	11107	$\frac{3}{8}$ in. – 16 x $1\frac{1}{4}$ HHCS #2 zinc-plated bolt	16
11	33622	$\frac{3}{8}$ in. zinc plated lock washer	16
12	36106	$\frac{3}{8}$ in. – 16 zinc plated hex nut	16
14	28-516-054	I-beam clamp weldment	4
15	08-025-007	$\frac{3}{8}$ in. – 16 UNC threaded knob, TT-18-PED	6
16	28-514-221	4k leg tube weldment	4
17	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4

FIGURE 6: Exploded View of AHA-4-10-8, AHA-4-10-10, & AHA-4-10-12

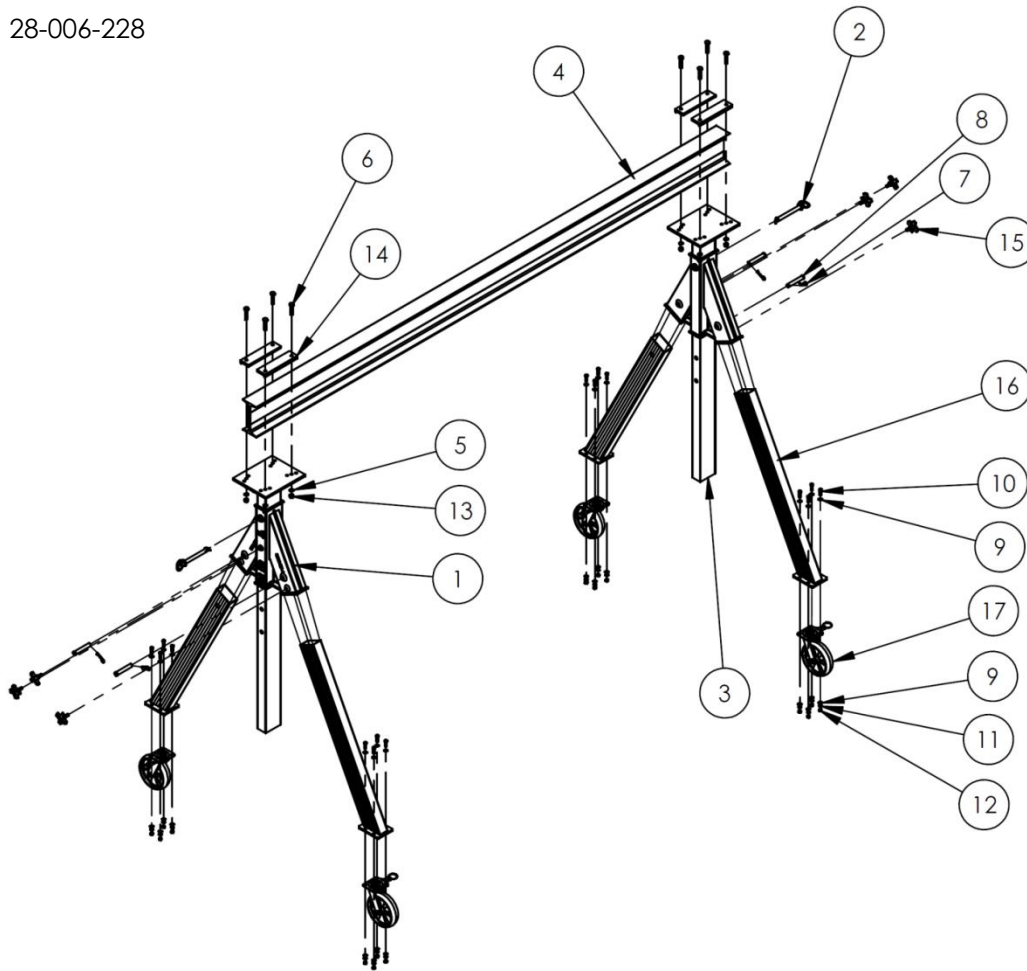
28-006-227



Item	Part no.	Description	Quantity
1	28-014-272	Aluminum 4k gantry casting	2
2	28-112-007	Pin, retaining, $\frac{3}{4}$ in. x 6 in. usable length	2
3	28-514-230 28-514-231 28-514-232	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-4-8-8 AHA-4-8-10 AHA-4-8-12	2 2 2
4	28-014-988-001	8 in. (H) 4.17 in. (W) x 120 in. (L) aluminum I-beam	1
5	33626	$\frac{1}{2}$ in. zinc-plated lock washer	8
6 & 13	11134585	$\frac{1}{2}$ in. – 13 x 2 $\frac{1}{2}$ in. A325 galvanized structural nut & bolt combo $\frac{1}{2}$ in. – 13 A325 galvanized structural nut & bolt combo	8
7	45286	$\frac{1}{8}$ in. x 2 $\frac{5}{8}$ in. #11 hitch pin clip	4
8	28-112-031	Pin, clevis, $\frac{3}{4}$ in. x 4 $\frac{1}{4}$ in. usable length	4
9	33082	$\frac{3}{8}$ in. zinc plated SAE flat washer	32
10	11107	$\frac{3}{8}$ in. – 16 x 1 $\frac{1}{4}$ HHCS #2 zinc-plated bolt	16
11	33622	$\frac{3}{8}$ in. zinc plated lock washer	16
12	36106	$\frac{3}{8}$ in. – 16 zinc plated hex nut	16
14	28-516-054	I-beam clamp weldment	4
15	08-025-007	$\frac{3}{8}$ in. – 16 UNC threaded knob, TT-18-PED	6
16	28-514-221	4k leg tube weldment	4
17	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4

FIGURE 7: Exploded View of AHA-4-12-8, AHA-4-12-10, & AHA-4-12-12

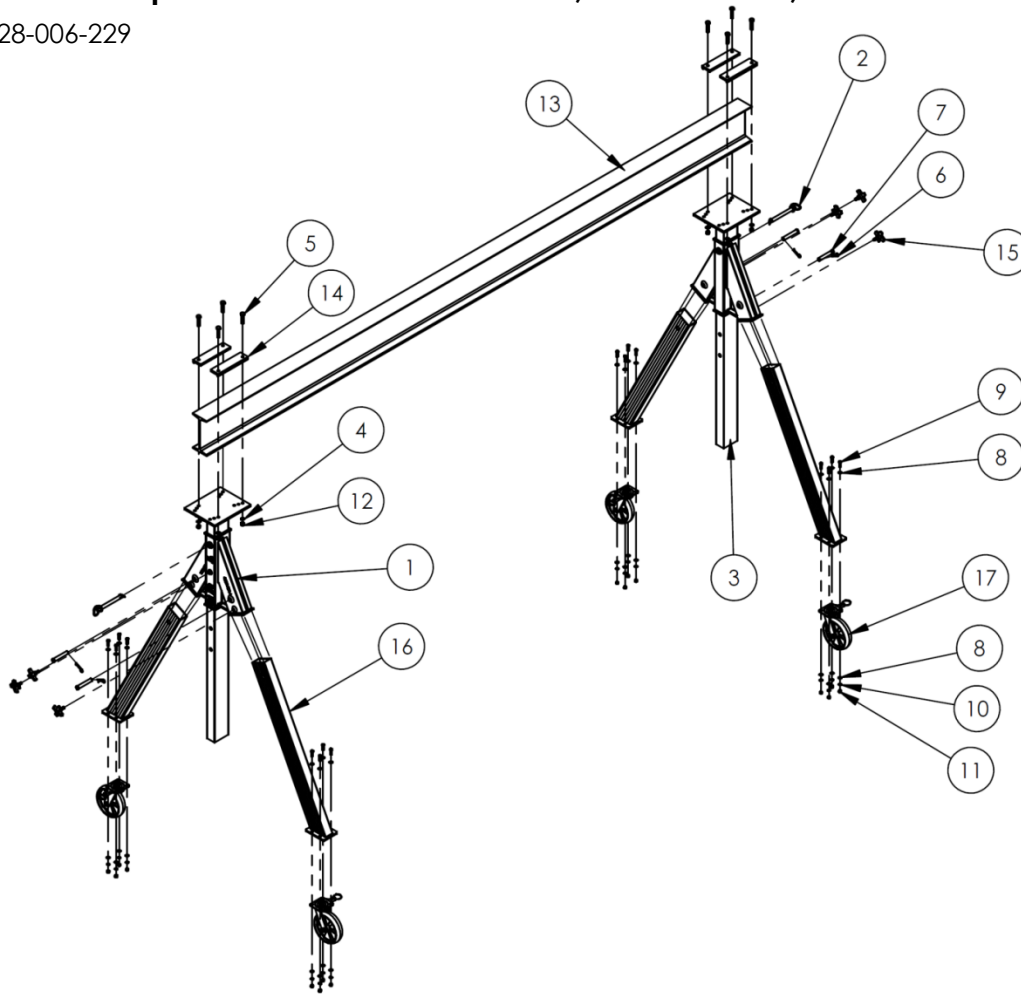
28-006-228



Item	Part no.	Description	Quantity
1	28-014-272	Aluminum 4k gantry casting	2
2	28-112-007	Pin, retaining, $\frac{3}{4}$ in. x 6 in. usable length	2
3	28-514-230 28-514-231 28-514-232	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-4-12-8 AHA-4-12-10 AHA-4-12-12	2 2 2
4	28-014-988-002	8in. (H) x 4.17in. (W) x 144in. (L) aluminum I-beam	1
5	33626	$\frac{1}{2}$ in. zinc-plated lock washer	8
6 & 13	11134585	$\frac{1}{2}$ in. – 13 x 2 $\frac{1}{2}$ in. A325 galvanized structural nut & bolt combo $\frac{1}{2}$ in. – 13 A325 galvanized structural nut & bolt combo	8
7	45286	$\frac{1}{8}$ in. x 2 $\frac{5}{8}$ in. #11 hitch pin clip	4
8	28-112-031	Pin, clevis, $\frac{3}{4}$ in. x 4 $\frac{1}{4}$ in. usable length	4
9	33082	$\frac{3}{8}$ in. zinc plated SAE flat washer	32
10	11107	$\frac{3}{8}$ in. – 16 x 1 $\frac{1}{4}$ HHCS #2 zinc-plated bolt	16
11	33622	$\frac{3}{8}$ in. zinc plated lock washer	16
12	36106	$\frac{3}{8}$ in. – 16 zinc plated hex nut	16
13	11134585	$\frac{1}{2}$ in. – 13 A325 galvanized structural nut & bolt combo	8
14	28-516-054	I-beam clamp weldment	4
15	08-025-007	$\frac{3}{8}$ in. – 16 UNC threaded knob, TT-18-PED	6
16	28-514-221	4k leg tube weldment	4
17	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4

FIGURE 8: Exploded View of AHA-4-15-8, AHA-4-15-10, & AHA-4-15-12

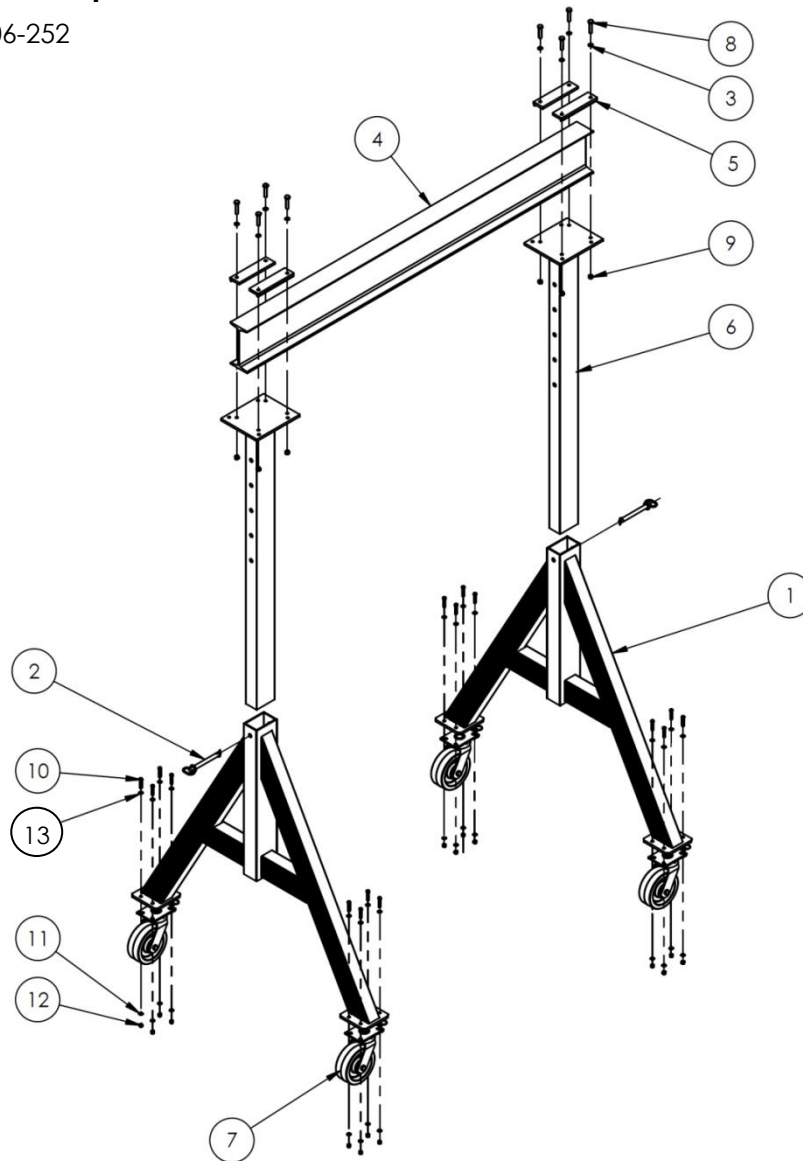
28-006-229



Item	Part no.	Description	Quantity
1	28-014-272	Aluminum 4k gantry casting	2
2	28-112-007	Pin, retaining, $\frac{3}{4}$ in. x 6 in. usable length	2
3	28-514-230 28-514-231 28-514-232	<u>Adjustable upright weldment:</u> (when ordering replacements, only sold as a pair) AHA-4-15-8 AHA-4-15-10 AHA-4-15-12	2 2 2
4	33626	$\frac{1}{2}$ in. zinc-plated lock washer	8
5 & 12	11134585	$\frac{1}{2}$ in. – 13 x $2\frac{1}{2}$ in. A325 galvanized structural nut & bolt $\frac{1}{2}$ in. – 13 A325 galvanized structural nut & bolt	8
6	45286	$\frac{1}{8}$ in. x $2\frac{5}{8}$ in. #11 hitch pin clip	4
7	28-112-031	Pin, clevis, $\frac{3}{4}$ in. x $4\frac{1}{4}$ in. usable length	4
8	33082	$\frac{3}{8}$ in. zinc plated SAE flat washer	32
9	11107	$\frac{3}{8}$ in. – 16 x $1\frac{1}{4}$ HHCS #2 zinc-plated bolt	16
10	33622	$\frac{3}{8}$ in. zinc plated lock washer	16
11	36106	$\frac{3}{8}$ in. – 16 zinc plated hex nut	16
13	28-014-236	10 in. (H) x 4.66 in. (W) x 180 in. (L) aluminum I-beam	1
14	28-516-054	I-beam clamp weldment	4
15	08-025-007	$\frac{3}{8}$ in. – 16 UNC threaded knob, TT-18-PED	6
16	28-514-221	4k leg tube weldment	4
17	GFN-8/2-S-4PSL (16-132-249)	Glass filled nylon 4-position swivel locking caster	4

FIGURE 9: Exploded View of AHA-6-8-8, AHA-6-8-10, & AHA-6-8-12

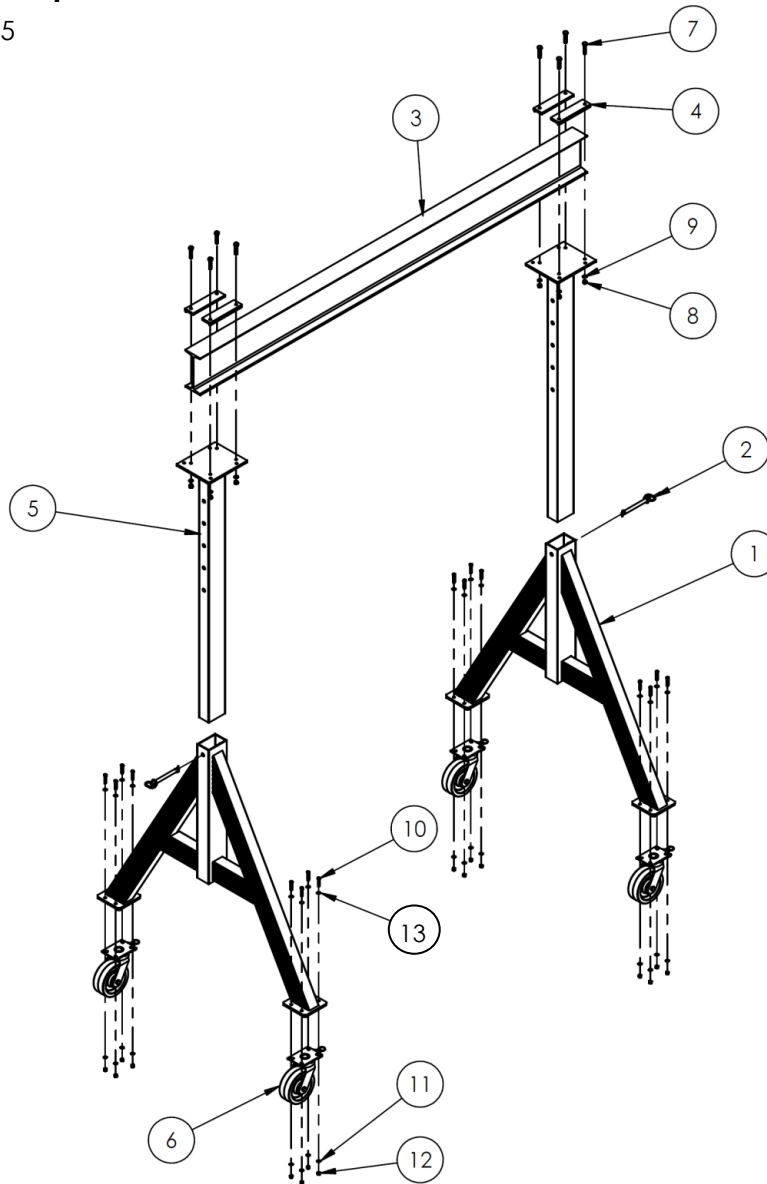
28-006-252



Item	Part no.	Description	Quantity
1	28-514-189	Leg set weldment	2
2	28-112-007	Pin, retaining, 3/4 in. x 6 in. usable length	2
3	33626	1/2 in. zinc-plated lock washer	8
4	28-014-355	10 in.(H) x 4.66 in. (W) x 96 in. (L) aluminum I-beam	1
5	28-516-054	I-beam clamp weldment	4
6	28-514-233 28-514-234 28-514-235	Adjustable upright weldment: (when ordering replacements, only sold as a pair) AHA-6-8-8 AHA-6-8-10 AHA-6-8-12	2 2 2
7	16-132-064	8in. x 3in. phenolic 4-way swivel lock caster	4
8 & 9	11134585	1/2 in. - 13 x 2 1/2 in. A325 galvanized structural bolt 1/2 in. -13 A325 galvanized structural nut	8
10	11109	3/8 in. - 16 x 1 1/2 in. HHCS #2 zinc-plated bolt	16
11	33008	3/8 in. USS zinc-plated flat washer	16
12	36106	3/8 in. - 16 hex nut, zinc plated	16
13	33622	3/8 in. lock washer, zinc plated	16

FIGURE 10: Exploded View of AHA-6-10-8, AHA-6-10-10, & AHA-6-10-12

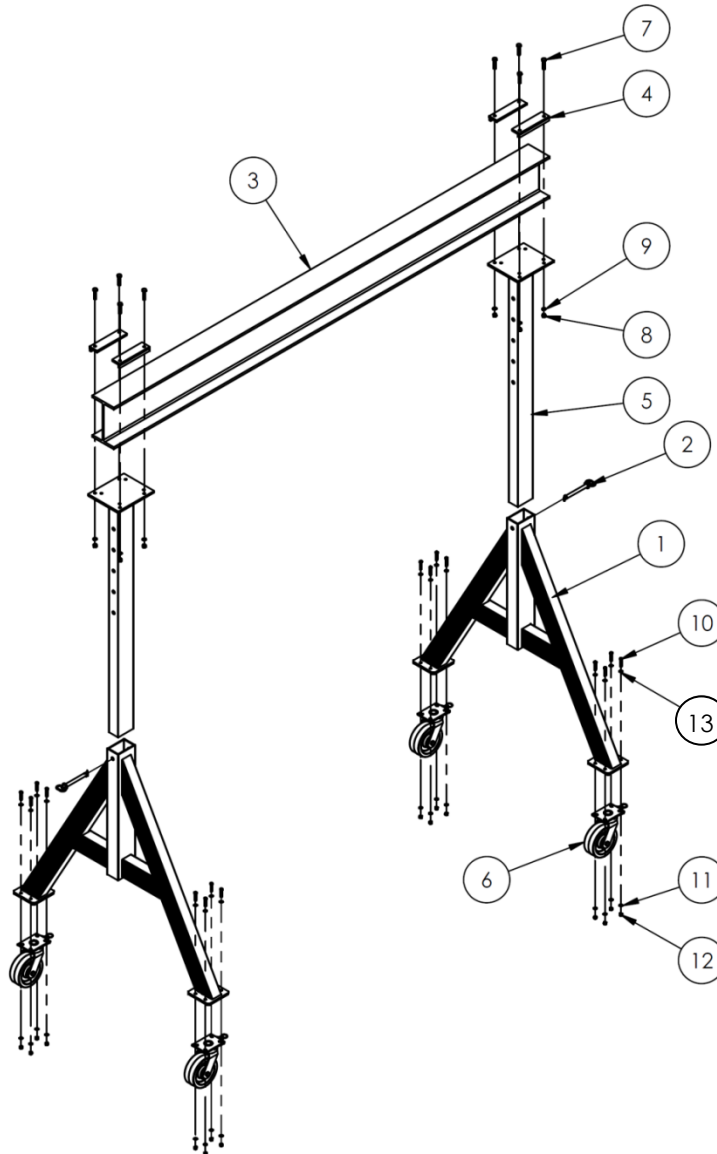
28-006-255



Item	Part no.	Description	Quantity
1	28-514-189	Frame, leg set weldment	2
2	28-112-007	Pin, retaining, 3/4 in. x 6 in.	2
3	28-014-356	10 in. (H) x 4.66 in. (W) x 120 in. (L) aluminum I-beam	1
4	28-516-054	I-beam clamp weldment	4
5	28-514-233 28-514-234 28-514-235	Adjustable upright weldment: (when ordering replacements, only sold as a pair) AHA-6-10-8 AHA-6-10-10 AHA-6-10-12	2 2 2
6	16-132-064	8in. x 3in. phenolic 4-way swivel lock caster	4
7 & 8	11134585	1/2 in. - 13 x 2 1/2 in. A325 galvanized structural nut & bolt 1/2 in. - 13 A325 galvanized structural nut & bolt	8
9	33626	1/2 in. zinc-plated lock washer	8
10	11109	3/8 in. - 16 x 1 1/2 in. HHCS #2 zinc-plated bolt	16
11	33008	3/8 in. USS zinc-plated flat washer	16
12	36106	3/8 in. - 16 hex nut, zinc plated	16
13	33622	3/8 in. lock washer, zinc plated	16

FIGURE 11: Exploded View of AHA-6-12-8, AHA-6-12-10, & AHA-6-12-12

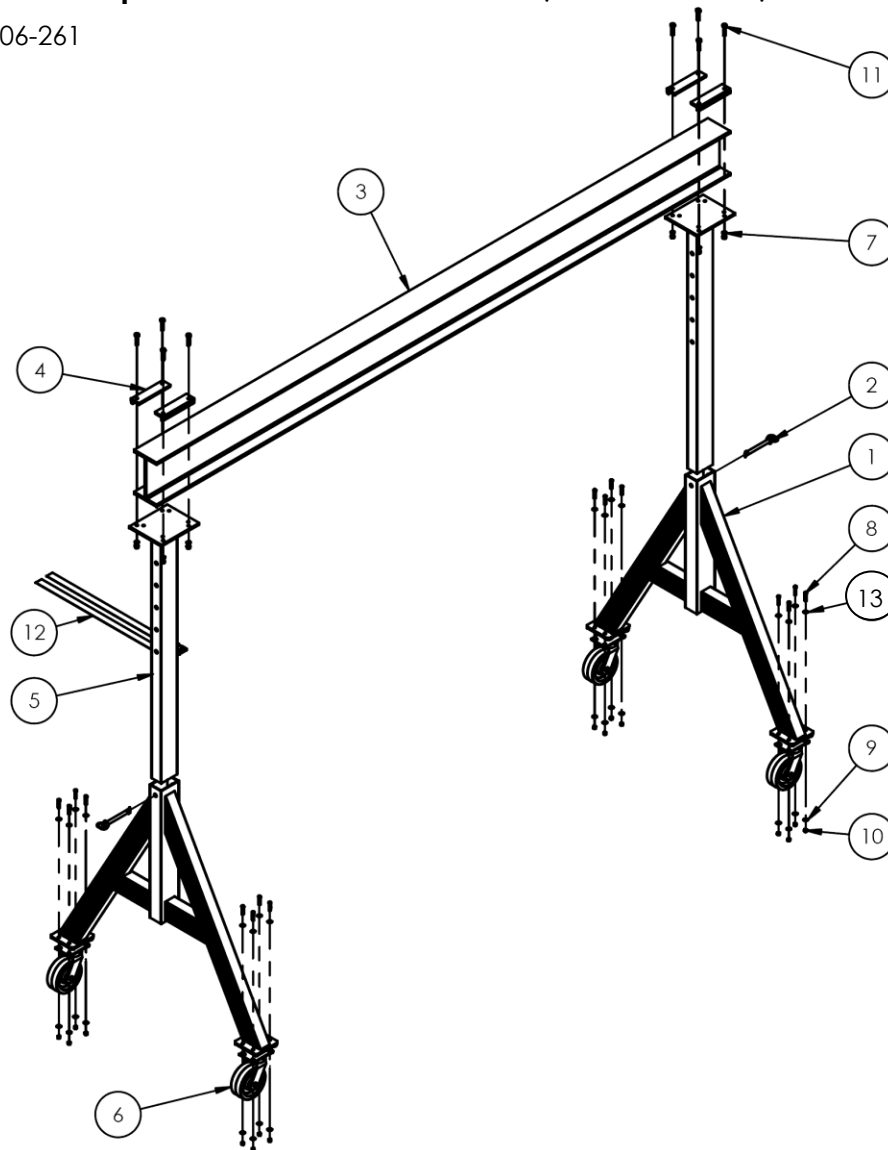
28-006-258



Item	Part no.	Description	Quantity
1	28-514-189	Leg set weldment	2
2	28-112-007	Pin, retaining, $\frac{3}{4}$ in. x 6 in. usable length	2
3	28-014-357	12 in. (H) x 7 in. (W) x 144 in. (L) heavy duty aluminum I-beam	1
4	28-516-061	I-beam clamp weldment	4
5	28-514-233 28-514-234 28-514-235	Adjustable upright weldment: (when ordering replacements, only sold as a pair) AHA-6-12-8 AHA-6-12-10 AHA-6-12-12	2 2 2
6	16-132-064	8in. x 3in. phenolic, 4-way, swivel-lock caster	4
7 & 8	11134585	$\frac{1}{2}$ in. - 13 x 2 $\frac{1}{2}$ in. A325 galvanized structural nut & bolt $\frac{1}{2}$ in. -13 A325 galvanized structural nut & bolt	8
9	33626	$\frac{1}{2}$ in. zinc-plated lock washer	8
10	11109	$\frac{3}{8}$ in. - 16 x 1 $\frac{1}{2}$ in. HHCS #2 zinc-plated bolt	16
11	33008	$\frac{3}{8}$ in. USS zinc-plated flat washer	16
12	36106	$\frac{3}{8}$ - 16 in. hex nut	16
13	33622	$\frac{3}{8}$ in. lock washer, zinc plated	16

FIGURE 12: Exploded View of AHA-6-15-8, AHA-6-15-10, & AHA-6-15-12

28-006-261



Item	Part no.	Description	Quantity
1	28-514-189	Leg set weldment	2
2	28-112-007	Pin, retaining, 3/4 in. x 6 in. usable length	2
3	28-014-358	12 in. (H) x 7 in. (W) x 180 in. (L) heavy duty aluminum I-beam	1
4	28-516-061	I-beam clamp weldment	4
5	28-514-233 28-514-234 28-514-235	<u>Adjustable upright weldment</u> (only sold in pairs) AHA-6-15-8 AHA-6-15-10 AHA-6-15-12	2 2 2
6	16-132-064	Caster, swivel, 4 PSL, 8 x 3 1/2 x 6 1/4 TP	4
7	33622	3/8 in. zinc-plated lock washer	8
8	11109	Hex bolt, gr. A, zinc plated, 3/8 in. – 16 x 1 1/2" HHCS, zinc plated	16
9	33008	Flat washer, low carbon, USS, zinc plated, 3/8 in.	16
10	36106	Hex nut, zinc finish, 3/8 in. – 16	16
11	1134585	1/2 in. – 13 x 2 1/2 in. A325 galvanized structural nut & bolt 1/2 in. -13 A325 galvanized structural nut & bolt	8
12	28-025-003	Strap	2
13	33626	3/8 in. lock washer, zinc plated	8

ASSEMBLING THE CRANE

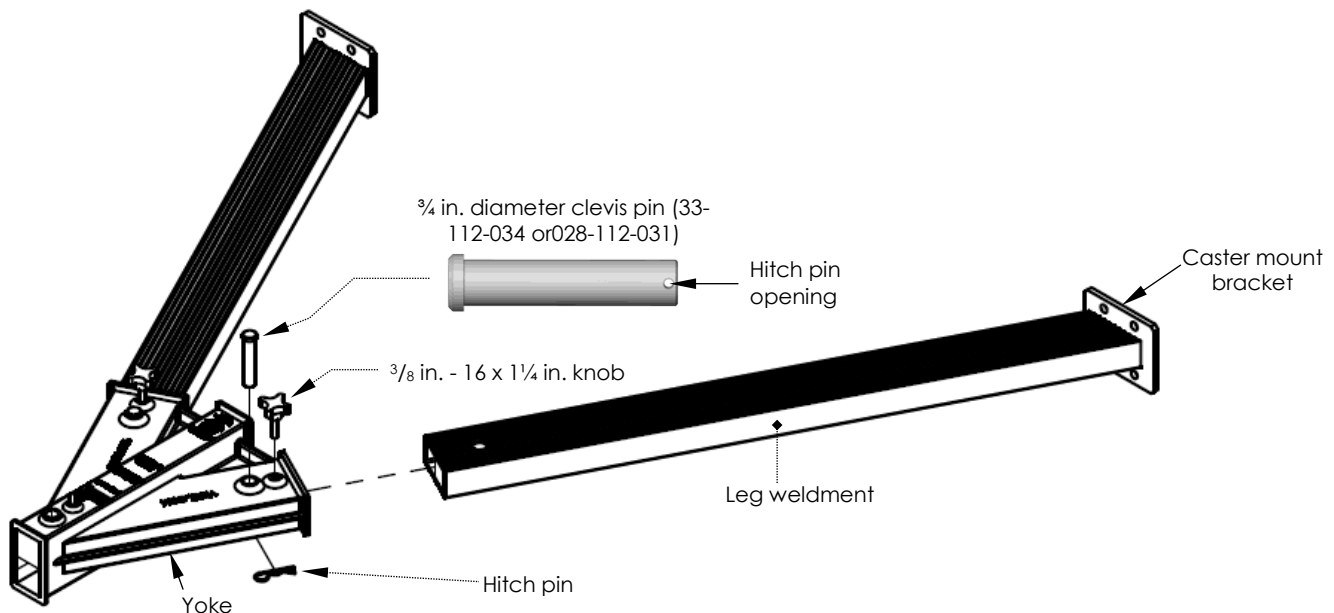
⚠ WARNING

Improper assembly might cause malfunctions and result in serious personal injuries. Follow the assembly procedure described in Steps 1-8. If you have any questions about the assembly process, contact [TECHNICAL SERVICE](#).

- ONLY qualified personnel should assemble the crane.
- **DO NOT** modify the crane in any way. Modifying the crane automatically voids the [LIMITED WARRANTY](#) on p. 24 and might make the crane unsafe to use.
- **DO NOT** use the crane if you notice damage to, or deformation of, the beam, uprights, or any part of the leg assemblies. Using the crane with weakened components could result in crane collapse.
- **DO NOT** use the crane if any of the hardware (bolts, nuts, clamps, etc.) is damaged or missing. Contact the [Replacement Parts Dept.](#) to order replacement parts.
- **DO NOT** use the crane if any of the casters are damaged. A damaged caster may cause the crane to tip over, and the possibility that the crane will tip increases while it is used to hoist or support a load.

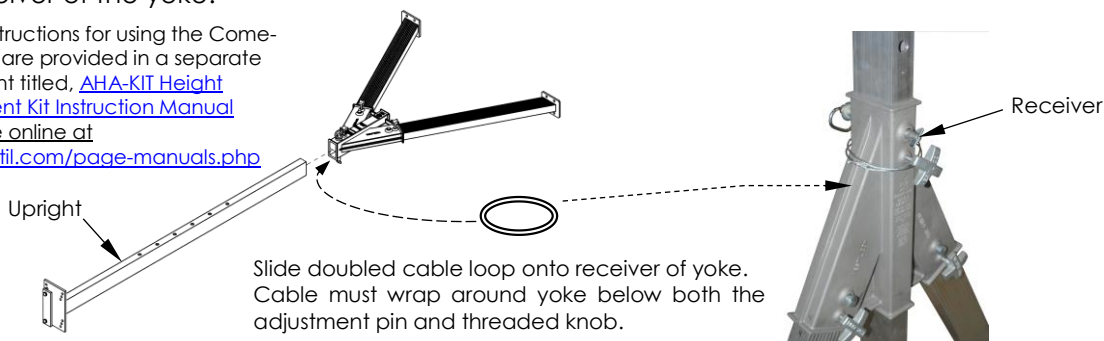
Step 1: (for 2,000 lb. (AHA-2-#-#) and 4,000 lb. (AHA-4-#-#) models only)

Insert the end of each leg into one of the leg openings in the yoke as shown below. Fasten the legs to the yoke with clevis pins (33-112-034 or 28-112-031) and secure the clevis pins with hitch pins. Insert a knob into the yoke until the end of the knob presses firmly against the leg.



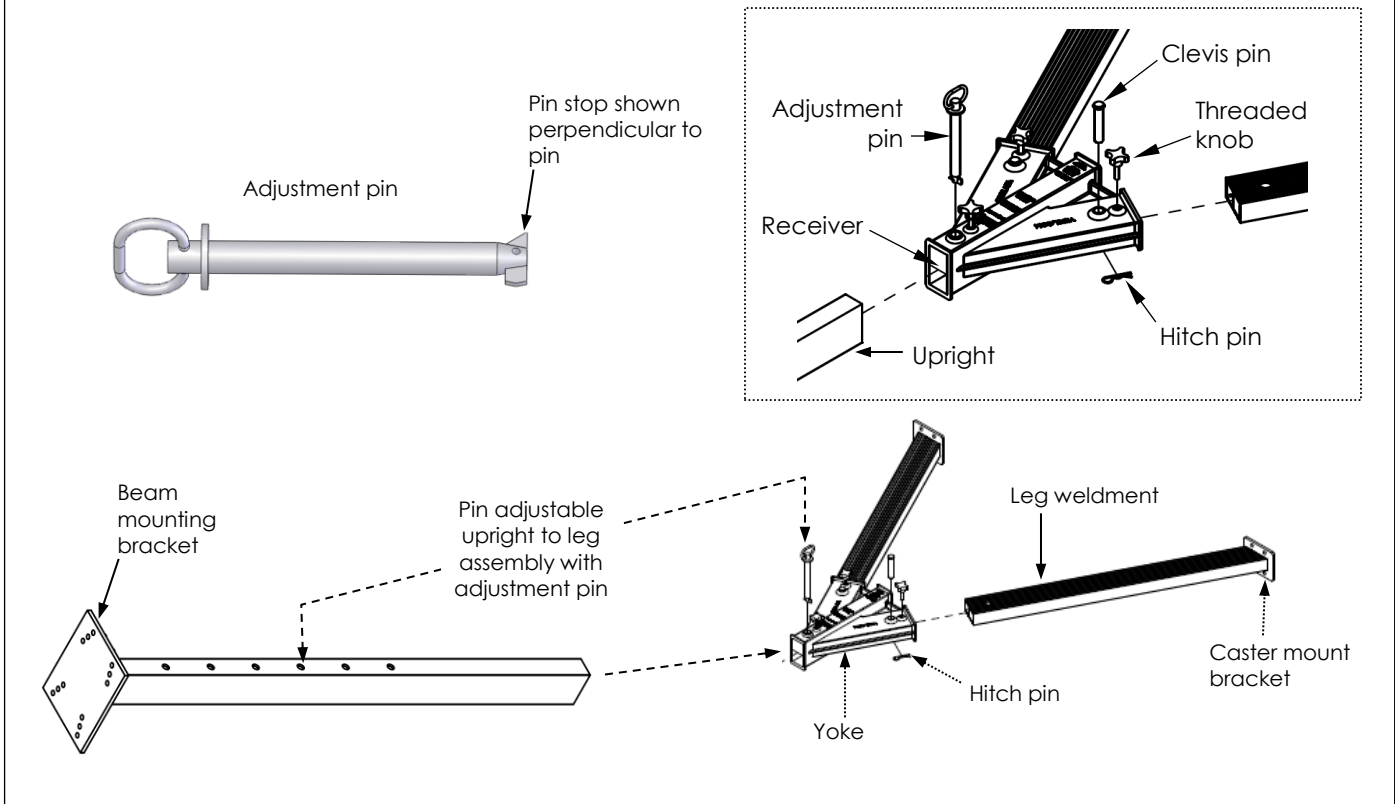
Step 2: (for Come-Along accessory kit only) If you have a "Come-Along" kit used to adjust the height of the crane, install the cable loops before inserting the uprights into the yokes. Twist the provided cable loops into a figure "8"; then fold it over onto itself (this will double loop the cable). Slide the doubled loop around the receiver of the yoke.

NOTE: Instructions for using the Come-Along kit are provided in a separate document titled, [AHA-KIT Height Adjustment Kit Instruction Manual](#) available online at www.vesfil.com/page-manuals.php



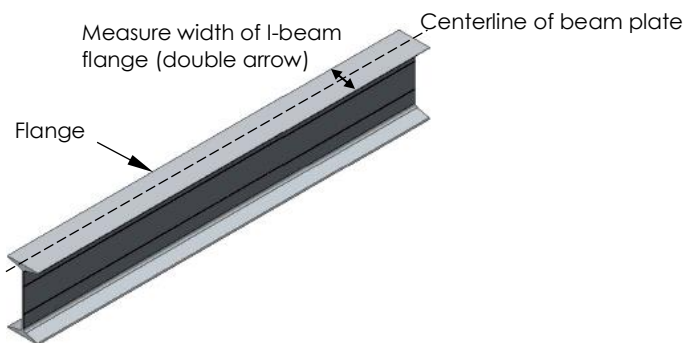
Step 3: Insert the uprights into the receivers of the leg assemblies or yokes (yoke shown in diagrams). Align the 3rd hole from the bottom of the upright with the hole in the yoke/leg assembly.

Turn the pin stops to be perpendicular to the adjustment pins to secure the pins in place.



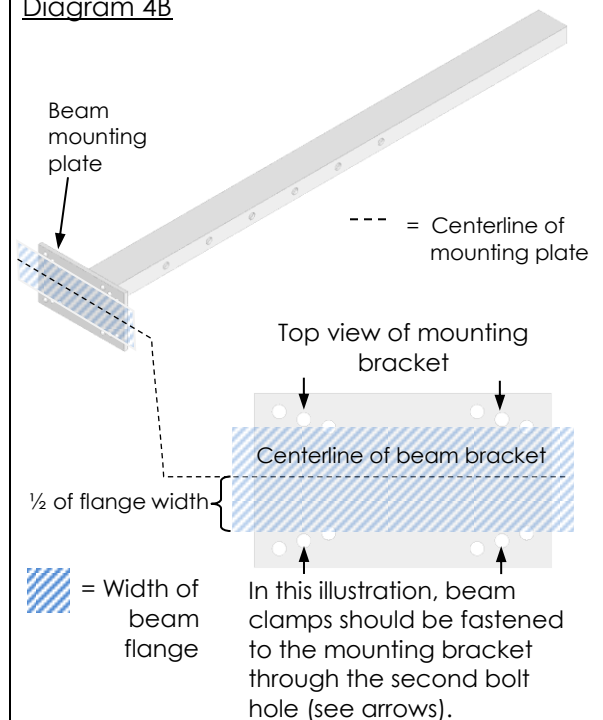
Step 4: Attach the uprights to the I-beam

Diagram 4A



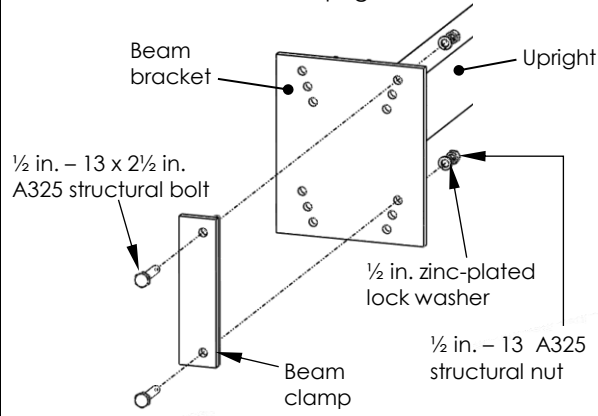
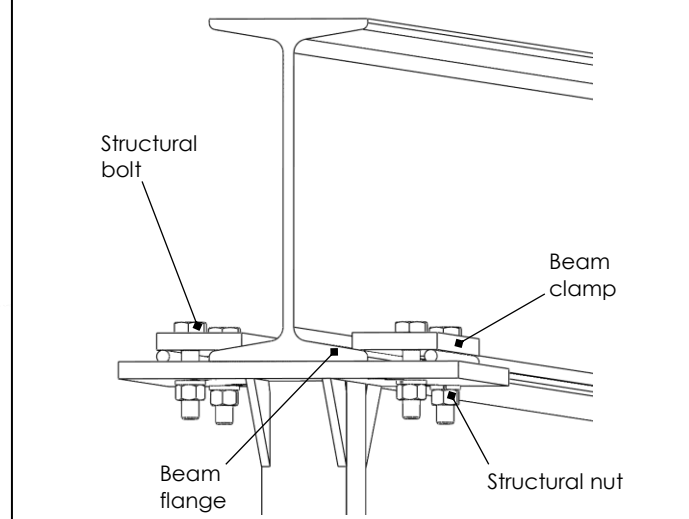
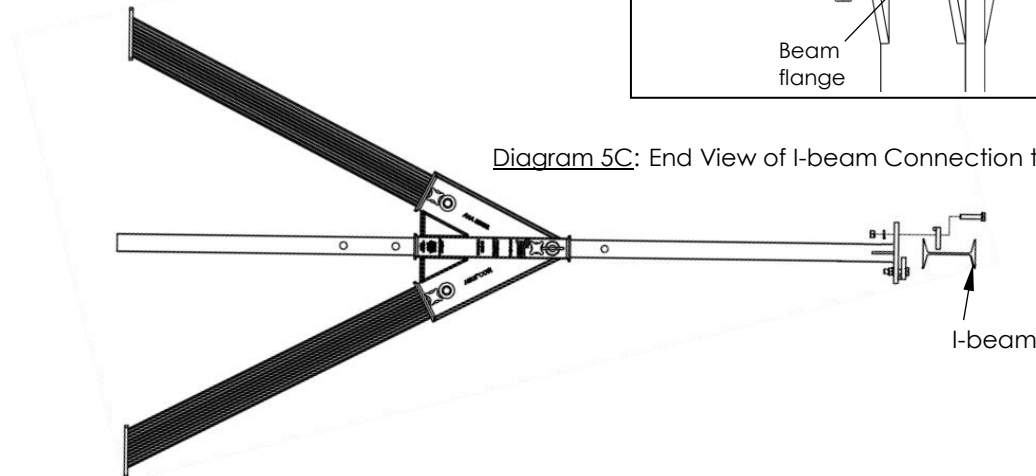
1. Measure the flange width of the I-beam (see Diagram 4A).
2. Mark a centerline across the beam mounting plate at the end of each upright.
3. At a distance of half the flange width, mark parallel lines on both sides of the centerline. (See Diagram 4B).
4. Identify the 4 bolt holes that lie just outside the width of the parallel lines.

Diagram 4B



Step 5: Fasten the I-beam to the uprights.

- [NOTE: The bolts and nuts referred to as a single part no. (11134585) in bills of materials on p. 5-16]. Insert two 1/2" structural bolts through the holes of a beam clamp and through two holes in the beam mounting plate you identified in step 4d. Use two lock washers and nuts to hold the beam clamp in place. Do not fully tighten the nuts at this point.
- Position the I-beam on the beam mounting plate with one flange in the gap between the beam clamp and the mounting plate.
- Install a second beam clamp and fastening hardware on the other flange of the beam.
- Repeat steps 5a-5c with the other upright.

Diagram 5A: Clamp I-beam flange to beam brackets of uprights**Diagram 5B:** Properly clamped flange**Diagram 5C:** End View of I-beam Connection to Beam Bracket

Step 6: Make sure that the I-beam is centered on both beam plates and that the beam clamps significantly overlap the flange on both sides. **Tighten all nuts to 50 - 52 ft lb of torque.**

Step 7: Stand the crane on its feet.

- DO NOT attempt to stand the crane unless all other people are a safe distance away. Sudden, unexpected movement is possible as the crane passes its natural tipping point.
- Is using an overhead hoist, attach the hoist chain to the center of the I-beam. Slowly raise the beam until the crane rotates to stand on its feet.
- If using a fork truck, approach the crane from the I-beam side. Slide the forks under the center of the I-beam. Slowly raise the beam while driving forward until the crane stands on its feet. **WARNING: DO NOT raise the beam unless all other persons are a safe distance away from and behind the fork truck.**

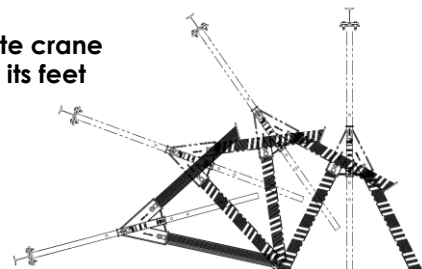
Approach the crane with a fork truck from this side, and slide the forks under the I-beam.

Slowly raise the beam while slowly driving forward until the crane stands on its feet.

WARNING

DO NOT raise the beam unless all other persons have moved to a location away from and behind the fork truck.

**Rotate crane
onto its feet**



Step 8: Connect the casters to the legs.

- Use a fork truck or hoist to lift a leg 8-10 inches above the ground.
- Position a caster beneath the leg. Attach it using the hardware shown in either diagram 8A or 8B.

Tighten hardware to 15-20ft-lb with a torque wrench.

- Repeat steps a-b for the other 3 legs.

Diagram 8A: Caster installation
2,000 lb. and 4,000 lb. capacity
models (AHA-2-#-# and AHA-4-#-#)

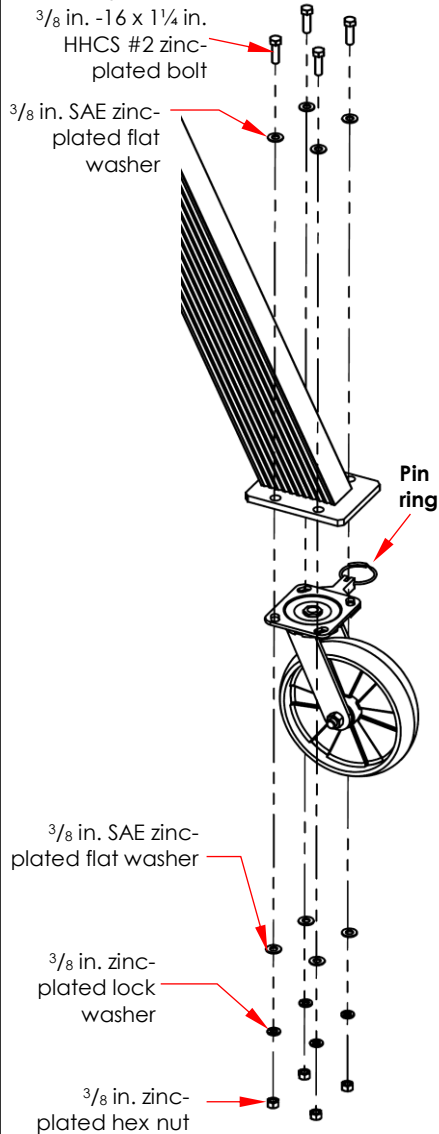


Diagram 8B: Caster installation; Dual
pneumatic, swivel casters

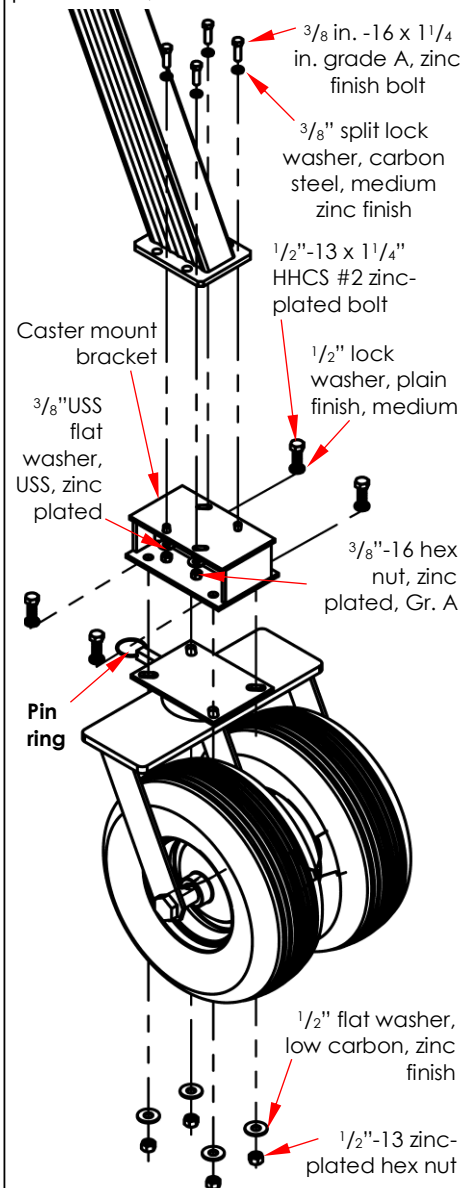
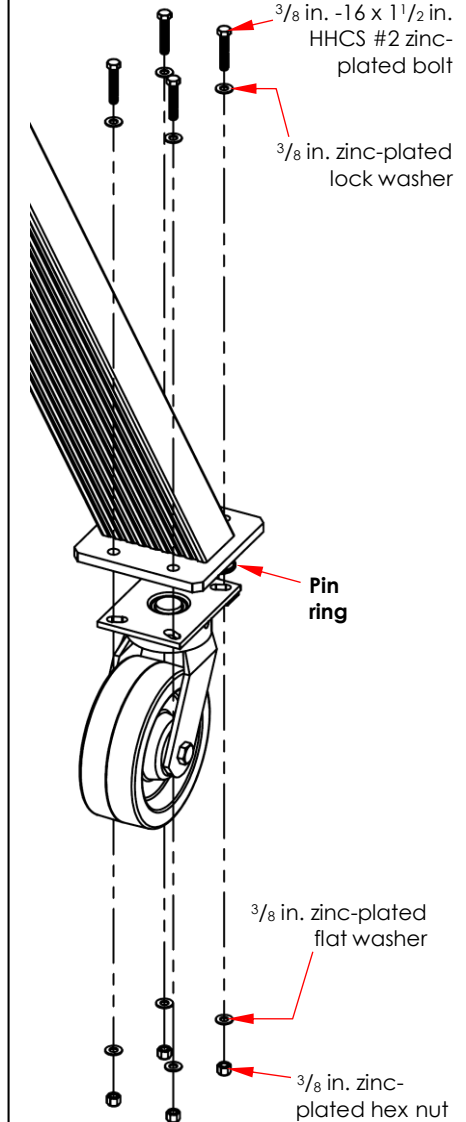


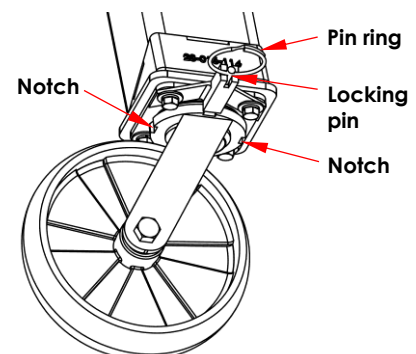
Diagram 8C: Caster installation;
6,000 lb. capacity models (AHA-6-#-#)



Each caster has a spring-biased locking pin. The end of the pin seats into notches in the horn assembly of the caster. Notches are located at 90-degree intervals around a circle, which allows the caster to be locked in any 1 of 4 positions. NOTE: V-groove casters can be ordered without the 4-position lock feature.

To change caster position:

- Grab the pin ring and pull the pin out of a notch.
- Turn the caster.
- Release the pin.
- Turn the caster until the pin seats into the closest notch.



Your Vestil AHA-series crane is now ready to use.

USING THE CRANE

Before using the crane for the first time: 1) Perform a "Before & after each use" inspection (*INSPECTIONS & MAINTENANCE*, part A, p. 22); and 2) Conduct a load test (*INSPECTIONS & MAINTENANCE*, part C, p. 22).

⚠ WARNING

Operate the crane in a safe manner to reduce the risk of serious personal injuries or death.

- Only use this crane if you are qualified and trained to use it. The operating instructions in this manual supplement safe crane and hoist operation practices applied at your work site. Acquire a copy of the most recent edition of ASME B30.17 and apply all operation, inspection, maintenance, and care recommendations.
- ALWAYS apply the safe material handling practices learned from your training program.
- All personnel not participating in the use of the crane must stay out of the area during use. Be certain no part of any 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 all persons 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 example with chocks.
- Only use this crane on level concrete (or equal) surface.
- DO NOT use the crane and notify your supervisor and authorized maintenance personnel if: 1) you observe any damage or hear unusual noise during operation; or 2) you observe any warping or deformation of the I-beam, the adjustable uprights, the load hook or hoist chain/cable.
- DO NOT operate a hoist with a twisted, kinked, or damaged chain or rope. DO NOT operate a rope hoist unless the rope is properly seated in its groove.

NOTICE

This crane can be used outdoors but should be sheltered from the weather when not in use.

LOADING THE CRANE

Position the trolley and hoist directly above the load. Center the trolley and hoist above the center of the load and position the long axis of the I-beam above the center of the load. Diagrams 8A & 8B show proper position.

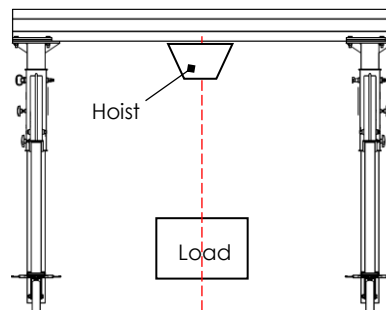
Connect the load to the hoist chain/cable, according to the instructions supplied with your hoist and the method applied at your work site; then raise the load only as high as is necessary to position it. Once the load is properly centered above the work location, lower the load until it is fully supported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

If you must move the load to a different location, return the load to the ground or other supporting surface, e.g. pallet, and disconnect it from the hoist. **Move the crane and load separately to the work location. Only use the crane to lift loads.**

If your crane is equipped with V-Groove casters (option AHA-2/4-V or AHA-2/4-V4) and V-Track is installed, the crane can be moved on the track while loaded. The hoist must be immobilized and the load lowered. Push the trailing end of the crane, not the load.

Diagram 8A: Center hoist above center of load

Properly centered load



Improperly centered load

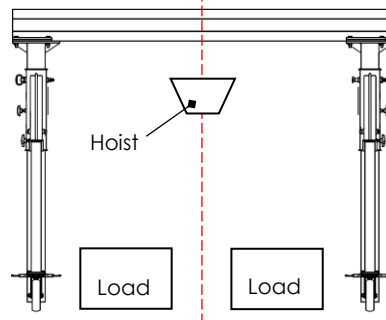
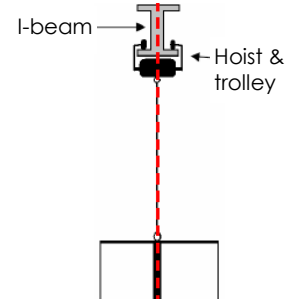
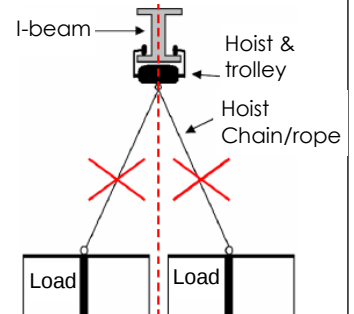


Diagram 8B: Center the long axis of the I-beam above the center of the load.

Properly centered I-beam



Improperly centered I-beam



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, tube weldments, yokes, uprights), 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, and all beam clamp connections. Add the photographs to the record. Collate all photographs and writings into 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. If your crane is not painted or powdercoated, touchup paint is not required.

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 conflicts with any recommendations or mandatory provision(s) in the Standard, apply the provision(s) from the Standard. Vestil encourages you to immediately contact [Technical Service](#) if you discover any inconsistencies.

INSPECTIONS AND 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 and beam clamp fasteners** – Clamp connections are shown in [Step 4](#) on p. 19. Verify that all lock washers are fully compressed. The clamps should equally overlap the 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 8](#) on p. 20.
- 5) **Pins** – Check both adjustment pins (all models) and all 4 clevis pins (AHA-2 and AHA-4 models only). Pinned connections are shown in [Step 2](#) 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 (AHA-2 & AHA-4 models)** – Closely examine both yokes. Look for cracks, bends, chips, warps, and other forms of damage. Pay particular attention to the openings in the yoke. Make sure that there are no elongations, warps, or cracks around the openings.
- 7) **Leg tubes (AHA-2 & AHA-4 models)** – Check all 4 of the leg tubes for damage.
- 8) **Leg assemblies (AHA-6 & AHA-8 models)** – Inspect both leg assemblies. 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 and beam clamp fasteners** – 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) **Pins**
 - i. Adjustment pins (all models): 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.
 - ii. Clevis pins (AHA-2 & AHA-4 models): One at a time, inspect each clevis pin. Closely examine the clevis pin and its cotter pin for damage. Remove the leg tube and perform the indicated inspection. When the inspection is finished, reinstall the clevis pin and its cotter pin.
 - 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 of the crane. 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 C in [SPECIFICATIONS](#) 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

Each unit should be labeled as shown in the 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 Co. ("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.