

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



Universal Plain Hoist Trolleys

Description

Saginaw Products Corporation 1/2, 1, and 2 ton capacity universal trolleys adjust to fit 4"-24" I-Beam flange for flexibility in transporting electric, air, or manual hoists in many manufacturing and warehouse applications. Trolleys are comprised of solid machined cast iron wheels with sealed precision bearings to provide exceptional rolling and maintenance free operation.

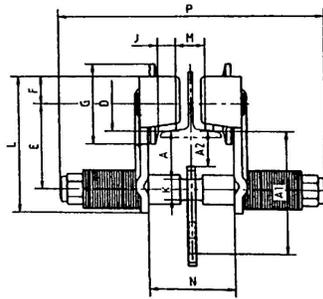
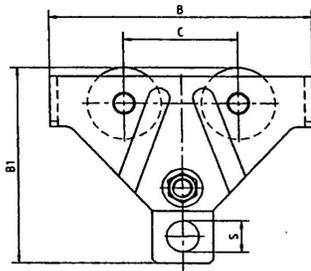


Figure 2

Specifications & Dimensions

model	capacity in tons	A	B	C	D	E	F	G	K DIA	M	VERT. H	HORZ W	MIN RAD
51860-1	1/2	2.50	10.00	4.50	2.250	4.00	1.12	3.43	0.75	1.09	4-24	2.66-8.06	36"
51861.1	1	2.25	12.94	5.56	3.000	4.38	1.62	4.06	1	1.45	5-24	3.00-8.06	48"
51862-1	2	2.31	14.88	6.50	3.440	5.18	1.31	5.75	1.18	0.89	6-24	3.33-8.06	60"
model	J	L	N	P	S	A2	WHEEL TREAD DIA	HEADROOM TO SHAFT	HEADROOM TO BAIL	OA HEIGHT	BAIL THICKNESS		
51860-1	0.88	6.12	3.94	12.25	1.56	1.78	2.25	2.50	6.18	9.75	0.38		
51861.1	0.78	7.41	4.20	12.88	1.56	1.78	2.75	2.25	6.19	10.31	0.38		
51862-1	1.16	7.50	4.31	13.18	1.56	1.78	4.25	2.31	6.17	11.87	0.38		



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General Safety Information

1. Make sure all nuts are drawn up securely and trolley plates spaced properly.
2. Make sure moving trolley will clear all obstructions (i.e. electrical wires, overhead lights, etc.).
3. Adequate stops must be installed at both ends of I-beam to prevent trolley from over-traveling beam and falling at either end.
4. Avoid running trolley into beam end stops or other obstructions.
5. Check I-beam carefully so that trolley can run smoothly without encountering weld marks, splice plates, beam irregularities, or debris which may have accumulated on beam.
6. Make certain capacity of hoist does not exceed the rated capacity of the trolley assembly and that the supporting structure has a load rating at least equivalent to the rated capacity of the trolley plus the weight of the hoist.
7. When mounting hoist to trolley, be sure that there is no interference between the hoist and trolley. Check to see that the latch on the hoist suspension hook is free to close after mounting to the trolley hanger shaft or hanger plate.
8. Inspect unit for worn, cracked, distorted, or damaged parts. If problems exist, remove from use immediately.
9. When making repairs, use only identical replacement parts.

WARNING: This equipment is intended for industrial use only and should not be used to support or transport people.



Universal Plain Hoist Trolleys

Installation

IMPORTANT - READ THIS FIRST

WARNING Do NOT load beyond rated capacity.

WARNING Do NOT use for human transport

APPLICATION AND USE

- The hoisting mechanism must be on the centerline of the hoist trolley. Place equal numbers of the approximately 1/8" thick and 1/16" thick washers on each side of the hanger shaft to obtain the "A" dimension (See Figure 3) between side plates.
- Place equal numbers of the remaining washers between the side plates and the lock nut. In no case should there be less than 3 of the 1/8" washers between the lock nut and side plate.
- Tighten the hanger shaft lock nut to the minimum torque value as follows.
 - 1/2 Ton Capacity (51860-1) - 75 Ft-lbs.
 - 1 Ton Capacity (51861-1) - 125 Ft-lbs.
 - 2 Ton Capacity (51862-1) - 125 Ft-lbs.

NOTE: Hanger shaft must protrude through lock nut by a minimum of two full threads.

- Check "A" dimension (See Figure 3)
- Observe trolley operation. Trolley should move freely with flanges on the wheels as close as possible to the edge of the I-

beam. If it appears trolley side plates could be moved closer together with freedom of movement maintained, remove an equal number of washers from each side to give 1/16" to 1/8" clearance on each side of the I-beam flange.

- These trolleys can operate on curved beams with radii as small as those listed below.
 - 1/2 Ton Capacity (51860-1) - 36"
 - 1 Ton Capacity (51861-1) - 48"
 - 2 Ton Capacity (51862-1) - 60"

IMPORTANT: For proper trolley operation, curved beam sections should be smooth and free from irregularities.

- Make certain that capacity of hoist does not exceed the rated capacity of the trolley assembly and that the supporting structure has a load rating at least equivalent to the rated capacity of the trolley plus the weight of the hoist.
- An optional hanger plate is available with each trolley, and should be used when:
 - The hoist suspension hook will not fit directly over the hanger shaft.
 - The hoist hook latch will not close after mounting to the hanger shaft.
 - There is insufficient clearance between the underside of the beam and the hoist hook.
 - There is interference between any part of the hoist and the trolley.
 - It is more convenient for fast and frequent removal of the hoist from the trolley.

HANGER PLATE (optional)

1. Pass the hanger shaft through one hole in the hanger plate before assembling trolley side plates.
2. The hanger plate should be located in the undercut at the center of the hanger shaft.
3. The lower hole in the hanger plate is then used for suspension of the hoists.

MAINTENANCE

These trolleys should be inspected periodically* (for wear and their continued ability to support the loads. The following procedures should be initiated:

- Visual inspection of complete assembly for:
 - A. Loose nuts or bolts
 - B. Wear, cracks or worn bearings on trolley wheels.
 - C. Wear, cracks or distortion on hanger shaft and hanger plate.
 - D. Side plate damage or distortion.
- If damaged, remove immediately from service.
- Replace all damaged or worn parts with identical replacement parts.

*The period of inspection will depend on frequency and type of usage. Determination of this period will be based on the user's experience. It is recommended that the user begin with a monthly inspection and extend periods to quarterly, semi-annually, or annually based on experience.



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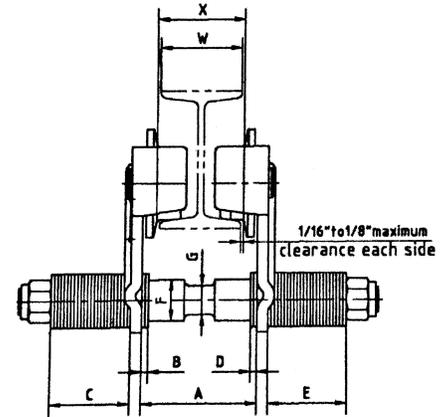


Figure 3 - Side Plate Spacing Illustration

Table 1 - Side Plate Spacing (inches)

"W" Flange Width	51860-1					51861-1					51862-1						
	"A" Dim	Washers (approx)				"A" Dim	Washers (approx)				"A" Dim	Washers (approx)					
		B	C	D	E		B	C	D	E		B	C	D	E		
2.640	3.94	0	25	0	25												
2.874	4.17	1	24	1	24												
2.992	4.29	2	23	1	24	4.17	0	24	0	24							
3.110	4.41	2	23	2	23	4.29	1	23	0	24							
3.346	4.65	3	22	3	22	4.52	2	22	1	23	4.33	0	22	0	22		
3.583	4.88	4	21	4	21	4.76	3	21	2	22	4.57	1	21	1	21		
3.819	5.12	5	20	5	20	5.00	4	20	3	21	4.80	2	20	2	20		
4.055	5.35	6	19	6	19	5.24	5	19	4	20	5.04	3	19	3	19		
4.291	5.59	7	18	7	18	5.47	6	18	5	19	5.28	4	18	4	18		
4.528	5.83	8	17	8	17	5.71	7	17	6	18	5.51	5	17	5	17		
4.646	5.94	9	16	8	17	5.83	7	17	7	17	5.63	6	16	5	17		
4.764	6.06	9	16	9	16	5.94	8	16	7	17	5.75	6	16	6	16		
5.000	6.30	10	15	10	15	6.18	9	15	8	16	5.98	7	15	7	15		
5.236	6.54	11	14	11	14	6.42	10	14	9	15	6.22	8	14	8	14		
5.472	6.77	12	13	12	13	6.65	11	13	10	14	6.46	9	13	9	13		
5.709	7.01	13	12	13	12	6.89	12	12	11	13	6.69	10	12	10	12		
5.945	7.24	14	11	14	11	7.13	13	11	12	12	6.93	11	11	11	11		
6.181	7.48	15	10	15	10	7.36	14	10	13	11	7.17	12	10	12	10		
6.417	7.72	16	9	16	9	7.60	15	9	14	10	7.40	13	9	13	9		
6.654	7.95	17	8	17	8	7.83	16	8	15	9	7.64	14	8	14	8		
6.890	8.19	18	7	18	7	8.07	17	7	16	8	7.84	15	7	15	7		
7.126	8.43	19	6	19	6	8.31	18	6	17	7	8.11	16	6	16	6		
7.362	8.66	20	5	20	5	8.54	19	5	18	6	8.35	17	5	17	5		
7.598	8.90	21	4	21	4	8.78	20	4	19	5	8.58	18	4	18	4		
7.835	9.13	22	3	22	3	9.02	21	3	20	4	8.82	19	3	19	3		
8.071	9.37	23	2	23	2	9.25	22	2	21	3	9.06	20	2	20	2		



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Saginaw Products Corporation also manufactures BRIDGE CRANE KITS for the handling of heavy loads. Units can be installed on parallel I-beams or wide flanged beams. These bridge crane kits employ the use of cast iron wheels containing sealed precision bearings. "Safety-Lug" type end plates are standard on each end truck, acting as rail sweeps and preventing the unit from falling in case of wheel mounting fatigue. Each end truck is adjustable to fit standard ASTM I-beams and wide flanged beams ranging from 6"-12". Applications from 500 lb. to 6,000 lb. capacity can be assembled from these kits. Each kit is complete with two end truck assemblies.

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Saginaw Products Corporation Warranty Statement

SPC hereby warrants to the original purchaser only, each new product manufactured and sold by **SPC** to be free from defect of material and workmanship during normal service and use. **SPC's** obligation and liability herein shall be limited to providing a replacement product for any product which shall be returned by said purchaser within twelve (12) months from the date of purchase to **SPC** for examination; and only after receiving **SPC's** written authorization therefore and after which said examination shall reveal the product(s) to have been defective.

SPC IS NOT LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES TO SUCH PURCHASER ARISING OUT OF ANY SUCH DEFECT AND PROVIDES NO OTHER WARRANTY OF FITNESS OR MERCHANTABILITY EITHER EXPRESSED OR IMPLIED.

Limitations

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