



**AMERICAN**

**INDUSTRIAL**

## **MANUAL HOIST SAFETY INFORMATION**

### **Inspection Checklist**

The first step in finding any abnormalities in the equipment is a visual inspection, which should be a part of a hoist owner's daily operation. During an inspection, the following checkpoints for manually operated chain hoists are vital to ensuring proper operation. Read the hoist user's manual for the specific requirements of your equipment.

- Check to ensure that hoists are not tagged, "Out of Service".
- Verify hoist nameplates are present and complete.
- Ensure that all warning and safety labels are not missing and are legible.
- Test run to ensure that all motions agree with control device markings.
- Run the hoist through the full range of motions, all the way up and down.
- Check to make sure that there is no load drift; the hoist must hold load without any drift.
- Check for hook damage. Inspect for: cracks, nicks, gouges, twisting, deformation of the throat opening and wear on saddle or load bearing point. Refer to the owner's manual provided by the original manufacturer.
- Check hook latch operation and inspect for wear or deformation. The latch must be present and operational.
- Deformation between the hook fitting and shank.
- Load chain inspection. Check for: nicks, gouges, deformation, flaws, heat damage, bent links, wear, stretch, corrosion, pitch elongation and proper lubrication.
- Inspect Hand Chain for deformation and pitch elongation.
- Reeving: Ensure that the chain is properly reeved and that the chain is not twisted around each other.
- Limit Switches: Check to ensure that the upper limit device stops the lifting motion of the hoist load block before striking any part of the hoist.
- Deformation and corrosion of the body frame, gear case, gears, sheaves, bearings and chain stopper pin.
- Presence of bolts and nuts.
- Wear of brake screws, linings and ratchet wheels.
- Check for any sign of oil leakage on the hoist and/or on the ground beneath the hoist.
- Check for any unusual sounds from the hoist mechanism while operating the hoist.





# HAND CHAIN HOISTS & MANUAL TROLLEYS

## Hand Chain Hoist

AMH™ (MA) model hand chain hoist features lightweight and durable all steel construction with powder coated finish and plated external components to resist corrosion; premium grade 80 Zinc plated alloy load chain; sealed ball bearing on the chain wheel maximize efficiency and serviceability; self adjusting double pawl disc type mechanical load brake insures positive load control.

Optional: Overload protection is new design one directional clutch that will only slip in the lift direction. All hand chain hoists meet ASME B30.16 and OSHA standards.

MA SERIES HAND CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Pull Force Lift Capacity (lbs)	Weight for 10' lift (lbs)
MA005	1,100	1/2	10, 15, 20	13.8	1	56	20
MA010	2,200	1	10, 15, 20	15.1	1	64	26
MA015	3,300	1 1/2	10, 15, 20	17.4	1	69	36
MA020	4,400	2	10, 15, 20	19.1	1	77	44
MA030	6,600	3	10, 15, 20	21.8	1	84	72
MA050	11,000	5	10, 15, 20	27.1	2	84	93
MA100	22,000	10	10, 15, 20	30.1	4	86	165



BADGER™ HAND CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Pull Force Lift Capacity (lbs)	Weight for 10' lift (lbs)
CB005	1,100	1/2	10, 20, 30	10.6	1	49	22
CB010	2,200	1	10, 20, 30	12.5	1	72	26
CB015	3,300	1 1/2	10, 20, 30	15.7	1	81	42
CB020	4,400	2	10, 20, 30	16.3	1	82	44
CB030	6,600	3	10, 20, 30	18.3	2	87	59
CB050	11,000	5	10, 20, 30	24.3	2	98	101
CB100	22,000	10	10, 20, 30	31.4	4	98	183

## Manual Push Trolleys

Machined cast iron wheels with universal tread design to fit flat or tapered beam flanges. Trolleys meet ASME B30.16 and OSHA standards.



MANUAL PUSH TROLLEYS				
Part Number	Capacity (Tons)	Beam Flange Adjustment (in)	Minimum Radius (in)	Weight (lbs)
PT005	1/2	2.52 - 8.66	36	18
PT010	1	2.52 - 8.66	40	24
PT020	2	3.46 - 8.66	48	40
PT030	3	4.02 - 8.66	52	69
PT050	5	4.49 - 8.66	56	94
PT100	10	4.9 - 12	79	198



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## LEVER HOISTS & BEAM CLAMPS

### Lever Hoists

AMH™ (LA) model lever hoist features lightweight and durable all steel construction with powder coated finish and plated external components to resist corrosion; premium grade 80 Zinc plated alloy load chain; self adjusting double pawl disc type mechanical load brake insures control; horseshoe chain guard allows operation in any orientation.

Optional: Overload protection is new design one directional clutch that will only slip in the lift direction. All lever hoists meet ASME B30.21 and OSHA standards.

LA SERIES LEVER CHAIN HOIST							
Part Number	Capacity (tons)	Standard Lift (in)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Pull Force Lift Capacity (lbs)	Weight for 5' lift (lbs)
LA008	3/4	5, 10, 15, 20	13.4	1	10.5	47	14.9
LA010	1	5, 10, 15, 20	13.4	1	12.1	51	15.3
LA016	1 3/4	5, 10, 15, 20	15.7	1	14.0	66	24.1
LA032	3 1/2	5, 10, 15, 20	20.5	1	16.5	72	44.8
LA063	7	5, 10, 15, 20	25.2	2	16.5	74	66.3



BADGER™ LEVER CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Weight for 5' lift (lbs)
LC008	1,650	3/4	5, 10, 20	12.6	1	11.4	17
LC015	3,300	1 1/2	5, 10, 20	15.0	1	16.5	26
LC030	6,600	3	5, 10, 20	18.9	1	16.5	46
LC060	13,200	6	5, 10, 20	24.4	2	16.5	70

### Mini Hand Chain Hoist & Lever Hoists

Their small size allows operation and storage in tight places.

MINI MM HAND CHAIN HOIST & ML LEVER CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Weight for 5' lift (lbs)
MM003-08-06	550	1/4	8	9.1	1	N/A	7.7
ML003-05	550	1/4	5, 10	8.5	1	6.2	4.4
ML005-05	1,100	1/2	5, 10	10.0	1	7.1	7.7



BEAM CLAMPS			
Part Number	Capacity (lbs)	Beam Flange Adjustment (in)	Weight (lbs)
BC-01	2,200	3.1 - 9.4	7.7
BC-02	4,400	3.1 - 9.4	9.9
BC-03	6,600	3.5 - 12.2	20.9
BC-05	11,000	3.5 - 12.2	24.2
BC-10	22,000	3.5 - 12.6	35.2

### Beam Clamps

Beam clamps are easy an easy way to install a fixed hoist mount or rigging point. Simple installation by hand, no tools required. All beam clamps meet ASME B30 and OSHA standards.