

THIRD ANGLE PROJECTION	ENG BY: EJC	DATE: 06/19/2020
	DWN BY:	DATE:
TOLERANCES & UNITS ALL UNITS ARE IN INCHES ALL DIMENSIONS ARE ±1/16" UNLESS OTHERWISE NOTED REMOVE ALL BURRS & SHARP EDGES		
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 AMERICAN FABRICATORS & ENGINEERS 1824 LINCOLN STREET - PO BOX 487 - CEDAR FALLS, IA 50613 PHONE: (319) 268-0818 - WWW.AFECRANE.COM - FAX: (319) 277-0997	
UNDER HUNG SINGLE GIRDER STANDARD CRANE DIMENSIONAL DRAWING	
DWG NO: UHSG_STANDARDCRANE	PAGE: D REV: B
SCALE: NTS	SHEET: 1 OF 3

CAPACITY	SPAN	BRIDGE BEAM	END TRUCKS	HOIST	OVERALL LENGTH	END TRUCK WHEEL BASE (in.)	END TRUCK OVERALL LENGTH (in.)	HOIST HEAD ROOM (in.)	BRIDGE DEPTH (in.)	RUNWAY TREAD TO BOTTOM OF BRIDGE	HOOK TRAVEL	LEFT APPROACH	RIGHT APPROACH	WHEEL LOADS (lbs)	HOIST TROLLEY DEAD WEIGHT (lbs)	CRANE DEAD WEIGHT (lbs)
2 Ton	20	W10X33	Harrington UMS-3-0235	AccoLift CLH 2230140	22'-0"	3'-3"	5'-0"	2'-2"	0'-9.8"	0'-11.3"	20'-1.6"	0'-0"	-1'-10.4"	2496	280	1424
2 Ton	25	W12X45	Harrington UMS-3-0235	AccoLift CLH 2230140	27'-0"	3'-3"	5'-0"	2'-2"	1'-0.1"	1'-1.6"	24'-10.6"	0'-3"	-1'-10.4"	2629	280	1953
2 Ton	30	W16X50	Harrington UMS-3-0235	AccoLift CLH 2230140	32'-0"	3'-3"	5'-0"	2'-2"	1'-4.3"	1'-5.8"	29'-10.6"	0'-3"	-1'-10.4"	2735	280	2378
2 Ton	35	W16X67	Harrington UMS-3-0235	AccoLift CLH 2230140	37'-0"	3'-3"	5'-0"	2'-2"	1'-4.4"	1'-5.9"	34'-7.7"	0'-6"	-1'-10.4"	2965	280	3297
2 Ton	40	W18X76	Harrington UMS-3-0250	AccoLift CLH 2230140	42'-0"	5'-1"	6'-10"	2'-2"	1'-6.3"	1'-7.8"	39'-4.7"	0'-9"	-1'-10.4"	3187	280	4187
2 Ton	45	W18X86	Harrington UMS-3-0250	AccoLift CLH 2230140	47'-0"	5'-1"	6'-10"	2'-2"	1'-6.4"	1'-7.9"	44'-1.7"	1'-0"	-1'-10.4"	3410	280	5077
2 Ton	50	W16X100	Harrington UMS-3-0250	AccoLift CLH 2230140	52'-0"	5'-1"	6'-10"	2'-2"	1'-5"	1'-6.5"	48'-10.6"	1'-3"	-1'-10.4"	3709	280	6275
3 Ton	20	W12X40	Harrington UMS-3-0335	AccoLift 2130160	22'-0"	2'-11"	5'-0"	3'-0"	0'-12"	1'-1.5"	19'-8.5"	0'-2.1"	0'-1.5"	3659	517	1599
3 Ton	25	W16X50	Harrington UMS-3-0335	AccoLift 2130160	27'-0"	2'-11"	5'-0"	3'-0"	1'-4.3"	1'-5.8"	24'-7.5"	0'-3"	0'-1.5"	3786	517	2109
3 Ton	30	W14X61	Harrington UMS-3-0335	AccoLift 2130160	32'-0"	2'-11"	5'-0"	3'-0"	1'-1.9"	1'-3.4"	29'-7.5"	0'-3"	0'-1.5"	3947	517	2751
3 Ton	35	W16X77	Harrington UMS-3-0335	AccoLift 2130160	37'-0"	2'-11"	5'-0"	3'-0"	1'-4.6"	1'-6.1"	34'-4.5"	0'-6"	0'-1.5"	4181	517	3688
3 Ton	40	W18X86	Harrington UMS-3-0350	AccoLift 2130160	42'-0"	4'-9"	6'-10"	3'-0"	1'-6.4"	1'-7.9"	39'-1.5"	0'-9"	0'-1.5"	4416	517	4628
3 Ton	45	W16X100	Harrington UMS-3-0350	AccoLift 2130160	47'-0"	4'-9"	6'-10"	3'-0"	1'-5"	1'-6.5"	43'-10.5"	1'-0"	0'-1.5"	4698	517	5756
3 Ton	50	W18X106	Harrington UMS-3-0350	AccoLift 2130160	52'-0"	4'-9"	6'-10"	3'-0"	1'-6.8"	1'-8.3"	48'-7.5"	1'-3"	0'-1.5"	4911	517	6608
5 Ton	20	W18X55	Harrington UMS-3-0535	AccoLift 2130170	22'-0"	2'-9"	5'-0"	3'-6"	1'-6.2"	1'-7.8"	19'-8.5"	0'-2.1"	0'-1.5"	5806	599	2024
5 Ton	25	W14X68	Harrington UMS-3-0535	AccoLift 2130170	27'-0"	2'-9"	5'-0"	3'-6"	1'-2.1"	1'-3.7"	24'-7.5"	0'-3"	0'-1.5"	5972	599	2690
5 Ton	30	W14X82	Harrington UMS-3-0535	AccoLift 2130170	32'-0"	2'-9"	5'-0"	3'-6"	1'-2.4"	1'-4"	29'-7.5"	0'-3"	0'-1.5"	6179	599	3518
5 Ton	35	W18X97	Harrington UMS-3-0535	AccoLift 2130170	37'-0"	2'-9"	5'-0"	3'-6"	1'-6.6"	1'-8.2"	34'-4.5"	0'-6"	0'-1.5"	6431	599	4523
5 Ton	40	W24X104	Harrington UMS-3-0550	AccoLift 2130170 (w/ Flange >12")	42'-0"	4'-7"	6'-10"	3'-6"	2'-0.1"	2'-1.7"	39'-1.5"	0'-9"	0'-1.5"	6675	599	5499
5 Ton	45	W21X122	Harrington UMS-3-0550	AccoLift 2130170 (w/ Flange >12")	47'-0"	4'-7"	6'-10"	3'-6"	1'-9.7"	1'-11.3"	43'-10.5"	1'-0"	0'-1.5"	7026	599	6905
5 Ton	50	W21X132	Harrington UMS-3-0550	AccoLift 2130170 (w/ Flange >12")	52'-0"	4'-7"	6'-10"	3'-6"	1'-9.9"	1'-11.5"	48'-7.5"	1'-3"	0'-1.5"	7319	599	8075

SUBJECT TO CHANGE ON FINAL APPROVAL

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Standard Under Hung Single Girder Crane & Hoist Description:

Under Hung Motorized Crane

- Structural steel bridge girder with 1'-0" overhangs both sides
- Harrington End Trucks, Includes rubber bumpers, Standard endtruck fits runway flange widths up to 6"
- Bridge Travel Speed is 2-step infinitely variable from 13 to 80 feet per minute with programmable acceleration and deceleration control
- Rigid track festoon for power and control to hoist-trolley
- Controls include NEMA 4/12 panel with lockable door operated power disconnect, 30 amp mainline contactor, Magnetek G+ Mini variable speed control, 150VA transformer for 115 VAC control, and thermal protection
- Includes an 8-button pendant suspended from hoist for power on/off, hoist up/down, trolley left/right, and crane forward/reverse (2 speed)
- (4) P80-V3 Duct-O-Bar runway collectors mounted to adjustable height bracket.
- Power 460 volts, 3 phase, 60 hertz
- Class C Service Duty
- All wiring enclosed in IMC conduit, Seal-tite used near motor connections
- Painted yellow with large capacity decals
- Crane fully assembled and electrically tested at AFE Crane fabrication facility in Cedar Falls, IA
- Includes engineering drawings and electrical schematics
- Includes printed and electronic manual

AccoLift Electric Chain Hoist with Motorized Trolley

- Lift - 20 feet standard lift
- Lift speed - single speed
- Trolley speed - single speed
- Limit switch - upper limit switch
- Overload protection - Current sensing with alarm (Slip Clutch for CLH hoist)
- Mechanical load brake & motor brake (CLH hoist motor brake only)
- Power - 460 volts, 3 phase, 60 hertz
- Tagline Tow Arm – Included by AFE Crane
- 30 minute duty motors with thermal protection
- NEMA 12 enclosures
- Trolley drop down lugs & rubber bumpers
- Polypropylene chain container

Customization Available Upon Requests, including:

- Spans up to 140 Ft
- Capacities up to 50 Ton
- Alternative brands of Electric or Pneumatic Chain Hoist
- Wire Rope Hoist
- Patented Track
- Box Girder & Truss Cranes
- Process Cranes
- Hot Metal Cranes
- Automatic Controls & PLC Programming
- A, B, Both Hoist & Crane Configurations
- Twin Hook Hoists
- Food Grade
- Explosion Proof
- Outdoor & Corrosive Enviroments
- Telescoping Bridge Cranes

Standard Options:

Dual Speed Hoist & Trolley.

Hoist lift speed variable frequency drive.
Trolley speed variable frequency drive.

High Speed Harrington Endtrucks

Bridge Travel Speed 2-step infinitely variable from 20 to 120 feet per minute

Harrington Endtrucks for flange widths beyond 6 inches

Radio Controls.

Magnetek Flex-6EX2 Radio System includes one 120 VAC receiver with two transmitters with six 2-speed pushbuttons (3 motion, 2 speed with E-Stop, On/Off and Start). Combo kit for one transmitter includes a rubber boot, padded case and retractable belt clip included.

Walk Away Pendant.

Rigid track festoon for independent festooned pendant.

Cope Bridge.

Cope bridge girder at end truck connection for improved crane headroom.

Zero Tread to Tread Cope Bridge.

End truck to bridge connection stooled up so that bridge tread is at same elevation as runway tread

End of Travel Trolley Limit Switches.

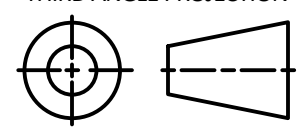

(2) limit switches will be mounted to the hoist trolley for slow down & stop for end stop approach on hoist trolley travel. Signal lights will be installed on the motorized bridge crane to indicate when the slow down & stop system is activated.

End of Runway Crane Slow Down and Stop.

(2) photo sensors will be mounted to the bridge crane for slow down & stop for end of runway approach on bridge travel. Signal lights will be installed on the motorized bridge crane to indicate when the slow down & stop system is activated.

Crane to Crane Anti-Collision.

Magnetek LaserGuard Mini Collision Avoidance System will be added to the motorized crane to detect obstructions or opposing cranes sharing the same runway. The sensor will only allow the motorized crane to approach the obstruction at a reduced speed when approximately 15' and will stop the motorized crane travel if within approximately 3' of the obstruction. The approach distance can be easily programmed in the field. Signal lights will be installed on the motorized crane control panel to indicate when the collision avoidance system is activated. Includes a bracket and reflector to be field mounted to the obstruction or opposing crane.

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