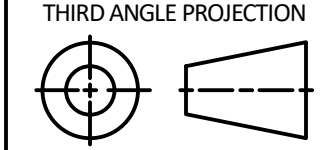



\*MINIMUM ASCE RAIL SIZE 30#

	ENG BY: EJC DATE: 06/12/2020	<p><b>AFECRANE</b> AMERICAN FABRICATORS &amp; ENGINEERS</p> <p>1824 LINCOLN STREET - PO BOX 487 - CEDAR FALLS, IA 50613          PHONE: (319) 268-0818 - WWW.AFECRANE.COM - FAX: (319) 277-0997</p>
	DWN BY: DATE:	
<p><b>TOLERANCES &amp; UNITS</b>          ALL UNITS ARE IN INCHES          ALL DIMENSIONS ARE ±1/16" UNLESS OTHERWISE NOTED          REMOVE ALL BURRS &amp; SHARP EDGES</p>		<p><b>TOP RUNNING SINGLE GIRDER          STANDARD CRANE DIMENSIONAL DRAWING</b></p>
<p><b>PROPERTY OF AFE CRANE</b>  <small>THIS PART AND/OR DRAWING IS CONFIDENTIAL AND IT OR ANY COPIES THEREOF SHALL BE RETURNED UPON REQUEST. IT IS NOT TO BE COPIED, REPRODUCED, OR EXHIBITED TO OUTSIDE PARTIES, BUT IS TO BE USED ONLY WITH REFERENCE TO CONTRACTS OR PROPOSALS OF THIS CORPORATION. NOTHING DISCLOSED HEREIN NOT PUBLICLY AVAILABLE MAY BE USED WITHOUT WRITTEN PERMISSION.</small></p>		<p>DWG NO: TRSG_STANDARDCRANE          SCALE: NTS          PAGE: D          REV: B          SHEET: 1 OF 3</p>

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.)	CRANE HEAD ROOM (in.)	HOOK TRAVEL	LEFT APPROACH	RIGHT APPROACH	WHEEL LOADS (lbs)	HOIST TROLLEY DEAD WEIGHT (lbs)	CRANE DEAD WEIGHT (lbs)
2 Ton	20'-0"	W10X33	Detroit ET5-(60)-S	AccoLift CLH 2230140	20'-5.5"	5'-0"	6'-0.5"	2'-2"	0'-9.8"	1'-5.9"	15'-11"	2'-5.2"	1'-7.9"	2475	280	1339
2 Ton	25'-0"	W12X45	Detroit ET5-(60)-S	AccoLift CLH 2230140	25'-5.5"	5'-0"	6'-0.5"	2'-2"	1'-0.1"	1'-8.2"	20'-9.4"	2'-6.8"	1'-7.9"	2603	280	1849
2 Ton	30'-0"	W16X50	Detroit ET5-(60)-S	AccoLift CLH 2230140	30'-5.5"	5'-0"	6'-0.5"	2'-2"	1'-4.3"	2'-0.4"	25'-9.4"	2'-6.8"	1'-7.9"	2707	280	2267
2 Ton	35'-0"	W16X67	Detroit ET5-(60)-S	AccoLift CLH 2230140	35'-5.5"	5'-0"	6'-0.5"	2'-2"	1'-4.4"	2'-0.5"	30'-6.4"	2'-9.8"	1'-7.9"	2930	280	3159
2 Ton	40'-0"	W18X76	Detroit ET5-(60)-S	AccoLift CLH 2230140	40'-5.5"	5'-0"	6'-0.5"	2'-2"	1'-6.3"	2'-2.4"	35'-3.4"	3'-0.8"	1'-7.9"	3115	280	3899
2 Ton	45'-0"	W18X86	Detroit ET5-(87)-S	AccoLift CLH 2230140	45'-5.5"	5'-0"	6'-0.5"	2'-2"	1'-6.4"	2'-2.6"	40'-0.4"	3'-3.8"	1'-7.9"	3359	280	4873
2 Ton	50'-0"	W16X100	Detroit ET5-(87)-S	AccoLift CLH 2230140	50'-5.5"	7'-3"	8'-3.5"	2'-2"	1'-5"	2'-1.1"	44'-9.4"	3'-6.8"	1'-7.9"	3653	280	6050
2 Ton	55'-0"	W24X117	Detroit ET5-(87)-S	AccoLift CLH 2230140 (w/ Flange >12")	55'-5.5"	7'-3"	8'-3.5"	2'-2"	2'-0.3"	2'-8.4"	49'-6.4"	3'-9.8"	1'-7.9"	4024	280	7532
2 Ton	60'-0"	W21X122	Detroit ET6-(96)-S	AccoLift CLH 2230140 (w/ Flange >12")	60'-6.5"	8'-0"	9'-1.5"	2'-2"	1'-9.7"	2'-6.9"	54'-6.4"	3'-9.8"	1'-7.9"	4271	280	8520
3 Ton	20'-0"	W12X40	Detroit ET5-(60)-S	AccoLift 2130160	20'-5.5"	5'-0"	6'-0.5"	3'-0"	0'-12"	1'-8.1"	15'-4.2"	2'-8.9"	1'-11"	3629	517	1482
3 Ton	25'-0"	W16X50	Detroit ET5-(60)-S	AccoLift 2130160	25'-5.5"	5'-0"	6'-0.5"	3'-0"	1'-4.3"	2'-0.4"	20'-4.2"	2'-8.9"	1'-11"	3753	517	1977
3 Ton	30'-0"	W14X61	Detroit ET5-(60)-S	AccoLift 2130160	30'-5.5"	5'-0"	6'-0.5"	3'-0"	1'-1.9"	1'-10.1"	25'-4.2"	2'-8.9"	1'-11"	3909	517	2602
3 Ton	35'-0"	W16X77	Detroit ET5-(60)-S	AccoLift 2130160	35'-5.5"	5'-0"	6'-0.5"	3'-0"	1'-4.6"	2'-0.7"	30'-3.3"	2'-9.8"	1'-11"	4137	517	3514
3 Ton	40'-0"	W18X86	Detroit ET5-(60)-S	AccoLift 2130160	40'-5.5"	5'-0"	6'-0.5"	3'-0"	1'-6.4"	2'-2.6"	35'-0.3"	3'-0.8"	1'-11"	4335	517	4303
3 Ton	45'-0"	W16X100	Detroit ET6-(86)-S	AccoLift 2130160	45'-6.5"	7'-2"	8'-3.5"	3'-0"	1'-5"	2'-2.1"	39'-9.3"	3'-3.8"	1'-11"	4639	517	5519
3 Ton	50'-0"	W18X106	Detroit ET6-(86)-S	AccoLift 2130160	50'-6.5"	7'-2"	8'-3.5"	3'-0"	1'-6.8"	2'-3.9"	44'-6.3"	3'-6.8"	1'-11"	4849	517	6362
3 Ton	55'-0"	W21X132	Detroit ET6-(86)-S	AccoLift 2130160 (w/ Flange >12")	55'-6.5"	7'-2"	8'-3.5"	3'-0"	1'-9.9"	2'-7"	49'-3.3"	3'-9.8"	1'-11"	5353	517	8376
3 Ton	60'-0"	W24X146	Detroit ET6-(96)-S	AccoLift 2130160 (w/ Flange >12")	60'-6.5"	8'-0"	9'-1.5"	3'-0"	2'-0.8"	2'-9.9"	54'-3.3"	3'-9.8"	1'-11"	5752	517	9973
5 Ton	20'-0"	W18X55	Detroit ET5-(60)-S	AccoLift 2130170	20'-5.5"	5'-0"	6'-0.5"	3'-6"	1'-6.2"	2'-2.3"	15'-4.2"	2'-8.9"	1'-11"	5747	599	1789
5 Ton	25'-0"	W14X68	Detroit ET5-(60)-S	AccoLift 2130170	25'-5.5"	5'-0"	6'-0.5"	3'-6"	1'-2.1"	1'-10.2"	20'-4.2"	2'-8.9"	1'-11"	5909	599	2435
5 Ton	30'-0"	W14X82	Detroit ET5-(60)-S	AccoLift 2130170	30'-5.5"	5'-0"	6'-0.5"	3'-6"	1'-2.4"	1'-10.5"	25'-4.2"	2'-8.9"	1'-11"	6110	599	3241
5 Ton	35'-0"	W18X97	Detroit ET5-(60)-S	AccoLift 2130170	35'-5.5"	5'-0"	6'-0.5"	3'-6"	1'-6.6"	2'-2.8"	30'-3.3"	2'-9.8"	1'-11"	6356	599	4223
5 Ton	40'-0"	W24X104	Detroit ET5-(60)-S	AccoLift 2130170 (w/ Flange >12")	40'-5.5"	5'-0"	6'-0.5"	3'-6"	2'-0.1"	2'-8.2"	35'-0.3"	3'-0.8"	1'-11"	6558	599	5031
5 Ton	45'-0"	W21X122	Detroit ET6-(86)-S	AccoLift 2130170 (w/ Flange >12")	45'-6.5"	7'-2"	8'-3.5"	3'-6"	1'-9.7"	2'-6.9"	39'-9.3"	3'-3.8"	1'-11"	6930	599	6520
5 Ton	50'-0"	W21X132	Detroit ET6-(86)-S	AccoLift 2130170 (w/ Flange >12")	50'-6.5"	7'-2"	8'-3.5"	3'-6"	1'-9.9"	2'-7"	44'-6.3"	3'-6.8"	1'-11"	7219	599	7676
5 Ton	55'-0"	W21X147	Detroit ET6-(86)-S	AccoLift 2130170 (w/ Flange >12")	55'-6.5"	7'-2"	8'-3.5"	3'-6"	1'-10.1"	2'-7.2"	49'-3.3"	3'-9.8"	1'-11"	7602	599	9209
5 Ton	60'-0"	W30X173	Detroit ET8-(95)-S1	AccoLift 2130170 (w/ Flange >12")	60'-8.5"	7'-11"	9'-1.5"	3'-6"	2'-6.5"	3'-5.6"	54'-3.3"	3'-9.8"	1'-11"	8341	599	12163

SUBJECT TO CHANGE ON FINAL APPROVAL

THIRD ANGLE PROJECTION 	ENG BY: EJC	DATE: 06/12/2020	 <b>AFE CRANE</b> AMERICAN FABRICATORS & ENGINEERS 1824 LINCOLN STREET - PO BOX 487 - CEDAR FALLS, IA 50613 PHONE: (319) 268-0818 - WWW.AFECRANE.COM - FAX: (319) 277-0997
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## Standard Top Running Single Girder Crane & Hoist Description:

### Top Running Motorized Crane

- Structural steel bridge girder sits on top of end trucks
- Detroit End Trucks, Includes rubber bumpers
- Bridge Travel Speed is 2-step infinitely variable from 10 to 100 FPM 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

## Standard Options:

### Dual Speed Hoist & Trolley.

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

### 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.

### 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.

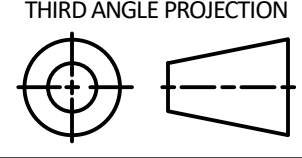

(2) photo sensors will be mounted to the bridge crane for slow down & stop for end of runway approach on bridge travel. Signal lights will be installed on the motorized bridge crane to indicate when the slow down & stop system is activated.

### 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.

## 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

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