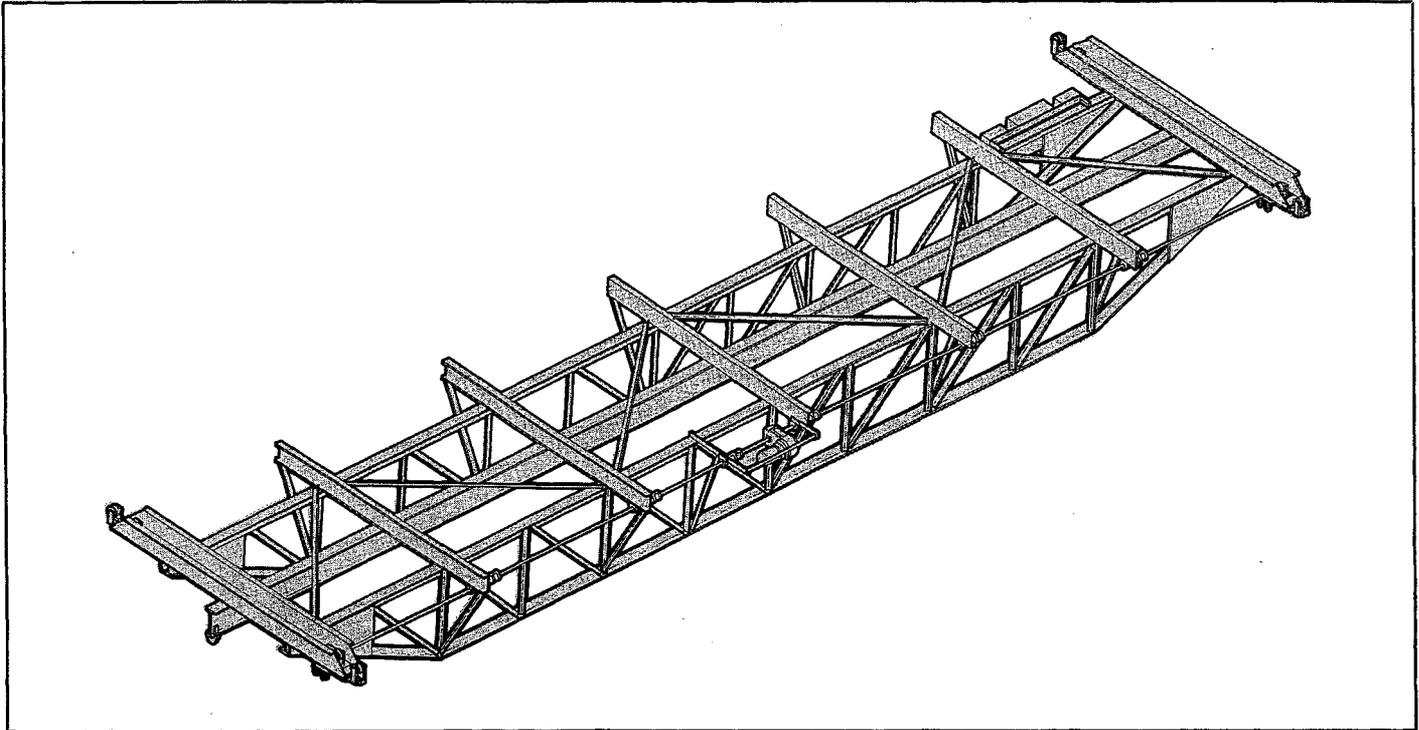




**LOUDEN™ 510 & 510T SINGLE GIRDER  
MOTOR PROPELLED TRUSS CRANES  
WITH CENTER DRIVE.**

510 & 510T Page 1  
Issued 9-7-01

**Single Girder, Motor Propelled Truss Cranes With Center Drive,  
To Operate on Two-Runways, 3.33" Operating Flange, For Use With Electric Hoists**



The *Louden* Series 510 and 510T center drive truss crane is offered in capacities of 3 through 15 tons, with spans to 100 feet. Standard bridge speeds are 75 F.P.M., single speed. Optional travel speeds (single speed) are 50, 110, 135, 165, 190, and 255 F.P.M. Other optional speeds are 2-speed and variable speed. High speeds listed above.

All speeds, except variable, will have adjustable torque and speed ramps through the use of the Acco Acceleration Control Module, a solid state device providing smooth bridge motion and excellent load control.

Standard crane motors are T.E.N.V., 30 minute, with Class F insulation, 55 degree rise over 60 degree ambient. All crane motors will have an AC disc brake as standard.

Available current characteristics are 460/230 volts, 3 phase, 60 Hertz, with 115 volt control circuit.

The gear reducer utilizes Helical gears cut from solid blanks to AGMA specifications. All gears are supported at both ends of the gear shaft by tapered roller bearings, and are enclosed in an oil-tight housing and run in an oil bath.

The drive tires are spring loaded to the underside of the runways, enabling all load wheels to be idler wheels. Load wheels are drop forged and hardened to 425 Brinell minimum. Wheels are flangeless with guide rollers, 9 inch tread diameter, with tapered roller bearings.

Standard electrical equipment includes NEMA type 12 enclosure, a mainline magnetic contactor, manually operated fused mainline disconnect switch with lock out provision, branch circuit fuses, single speed magnetic reversing contactor, transformer with fused secondary, and flat wire festoon tagline bridge electrification. Festooning will consist of four power conductors and eight control conductors.

Each crane is custom designed to fit the structure from which it is to be supported. It is designed to meet or exceed the standards of the Monorail Manufacturers Association and ANSI specification #MH27.1-1996.

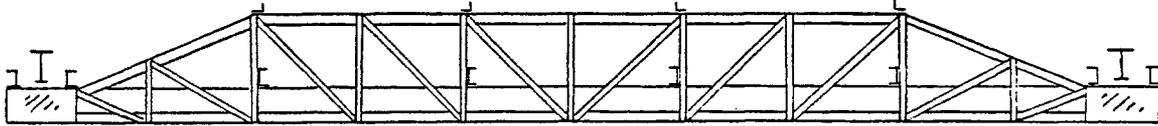
The 510 and 510T series crane is designed for Class C moderate service (as defined by the above ANSI standard).

The crane will be painted with one coat of yellow lead free alkyd enamel.

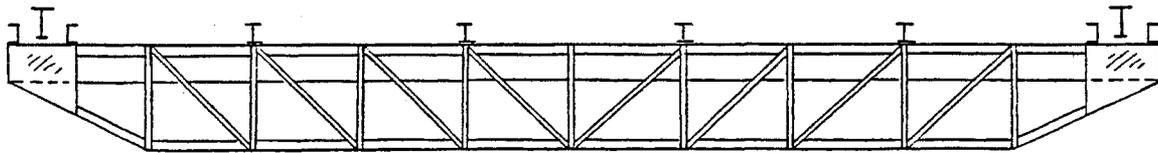
**WARNING:** Equipment described herein is not designed for and should not be used for lifting, supporting or transporting humans. Use of the equipment for this purpose can result in serious bodily injury and/or property damage.



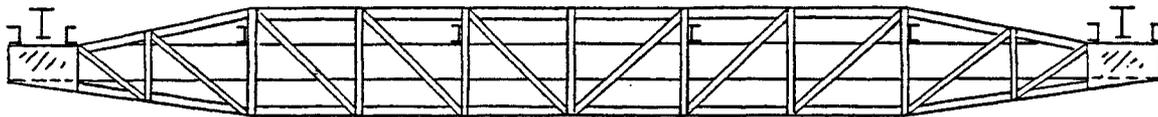
**Single Girder—Motor Propelled—Truss Cranes**



**TYPE A TRUSS**



**TYPE B TRUSS**



**TYPE AB TRUSS**

Truss type "B" is usually used where there is flat roof building construction. Type "A" is used with sloping roof rigid frame buildings. Type "AB" is used for both types of construction and permits the contour of the top chord of the trusses to accommodate the depth of the runway and the slope of the roof beams. Any of the three types are available at the prices shown on price bulletins.

The bridge beams are 605.1235 or 605.1543 *TrojanTrack* girders for use with hoist companies' hoists and motor driven trolleys with suitable wheels for Louden track.

604 *SuperTrack* bridge beams can sometimes be substituted when *Louden* hoist trolleys and *MotoVeyors* with 4-1/2" diameter wheels are used.

These cranes carry a Class "C" moderate service rating.

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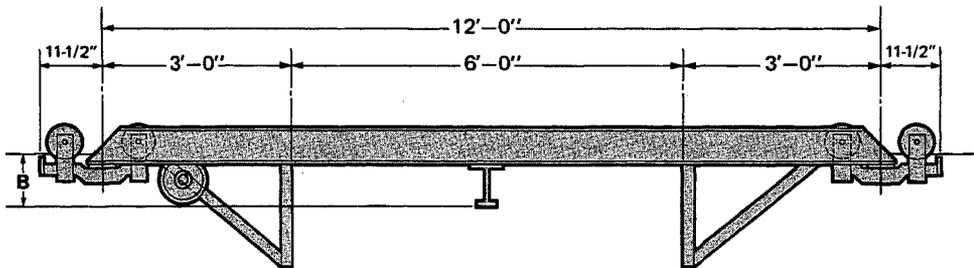


**LOUDEN® 510 SINGLE GIRDER  
MOTOR PROPELLED TRUSS CRANES  
WITH CENTER DRIVE.**

510 Page 3  
Issued 9-7-01

**Single Girder, Motor Propelled with Center Drive, Two-Runway, Truss Cranes  
to run on 604 SuperTrack Girder or 605 TrojanTrack Girder.**

Max Span Ft.	Trusses		Crane Weight Lbs.	Motor H.P. Speed-FPM 75	Overhang					End Trucks			
	Centers Ft.	Depth In.			In. Std.	In. Min.	In. Max.	505.7824 Latch	505.7830 Latch	No. Whls.	Capacity Maximum	Wheel Load Per Pair (8)	Wheel Base(s)
<b>Catalogue No. 510.6003</b>					<b>6,000 Lbs. Capacity</b>					<b>8,900 Lbs. Design Load (5)</b>			
60	6	48	11380	1	12	8½	18	17	15	8	20000	3648	12'-0"
65	6	48	12200	1	12	8½	18	17	15	8	20000	3750	12'-0"
70	6	54	13820	1	12	8½	18	17	15	8	20000	3953	12'-0"
75	6	60	14040	1	12	8½	18	17	15	8	20000	3980	12'-0"
80	6	60	14760	1	12	8½	18	17	15	8	20000	4070	12'-0"
85	6	66	15580	1	12	8½	18	17	15	8	20000	4173	12'-0"
90	6	72	16700	1	12	8½	18	17	15	8	20000	4313	12'-0"
95	6	72	17520	1	12	8½	18	17	15	8	20000	4415	12'-0"
100	6	78	19560	1½	12	8½	18	17	15	8	20000	4670	12'-0"



**No. 510 Truck—20,000 Lbs. Capacity with 4½" Diameter Wheels.**

**NOTES:**

1. Speeds shown are based on using 1800 RPM motors.
2. Horsepowers shown are based on using single speed motors.
3. Available non-standard speeds are: 50, 110, 135, 165, 190, 255 FPM.
4. Standard 2-speed motors are 1800/600 RPM.
5. Design Load = Live Load, plus 15% live load for impact, plus 2,000 lbs. for hoist and trolley.
6. Maximum permissible wheel load on 603 SuperTrack and 604 type SuperTrack Girder is 2,500 lbs. (5,000 lbs. per 2-wheel trolley). For 605 TrojanTrack Girder the limitation is 3,750 lbs. (7,500 lbs. per 2-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per 2-wheel trolley) when captive on bridge, or when used on Super-TrojanTrack runways. (Super-TrojanTrack requires .7500 in. min. thickness of top flange, .4375 in. min. thickness of web, and splices must be welded rather than bolted.)
7. Weights shown are based on single speed drive with brake and controls, rigid track supported flat-wire festoon bridge electrification, and 12" overhang each end of bridge.
8. Calculated for this crane.
9. B = Girder depth plus 2". (Tread to tread.)
10. Prices include the HP shown. For larger HP, see modifications.

**WARNING:** Equipment described herein is not designed for and should not be used for lifting, supporting, or transporting humans. Use of the equipment for this purpose can result in serious bodily injury and/or property damage.

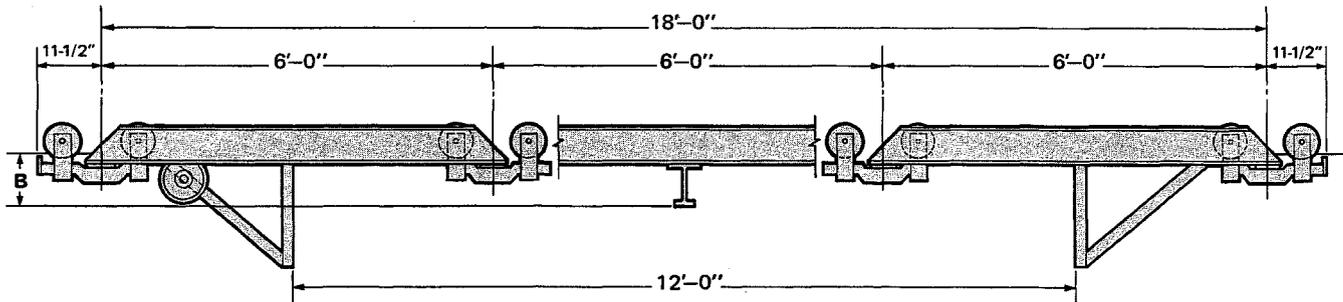


**LOUDEN® 510 SINGLE GIRDER  
MOTOR PROPELLED TRUSS CRANES  
WITH CENTER DRIVE.**

510 Page 4  
Issued 9-7-01

**Single Girder, Motor Propelled with Center Drive, Two-Runway, Truss Cranes  
to run on 604 SuperTrack Girder or 605 TrojanTrack Girder.**

Max Span Ft.	Trusses		Crane Weight Lbs.	Motor H.P. Speed-FPM 75	Overhang					End Trucks			
	Centers Ft.	Depth In.			In. Std.	In. Min.	In. Max.	505.7824 Latch	505.7830 Latch	No. Whls.	Capacity Maximum	Wheel Load Per Pair (8)	Wheel Base(s)
Catalogue No. 510.10003			10,000 Lbs. Capacity					14,500 Lbs. Design Load (5)					
60	12	48	13330	1	12	8½	18	17	15	16	40000	2646	6'-6'-6'
65	12	48	14150	1	12	8½	18	17	15	16	40000	2697	6'-6'-6'
70	12	54	14990	1½	12	8½	18	17	15	16	40000	2750	6'-6'-6'
75	12	60	16110	1½	12	8½	18	17	15	16	40000	2820	6'-6'-6'
80	12	60	17030	1½	12	8½	18	17	15	16	40000	2877	6'-6'-6'
85	12	66	17850	1½	12	8½	18	17	15	16	40000	2929	6'-6'-6'
90	12	72	19070	1½	12	8½	18	17	15	16	40000	3005	6'-6'-6'
95	12	72	19640	1½	12	8½	18	17	15	16	40000	3040	6'-6'-6'
100	12	78	20360	1½	12	8½	18	17	15	16	40000	3085	6'-6'-6'



**No. 510 Truck—40,000 Lbs. Capacity with 4½" Diameter Wheels.**

**NOTES:**

1. Speeds shown are based on using 1800 RPM motors.
2. Horsepowers shown are based on using single speed motors.
3. Available non-standard speeds are: 50, 110, 135, 165, 190, 255 FPM.
4. Standard 2-speed motors are 1800/600 RPM.
5. Design Load = Live Load, plus 15% live load for impact, plus 3,000 lbs. for hoist and trolley.
6. Maximum permissible wheel load on 603 SuperTrack and 604 type SuperTrack Girder is 2,500 lbs. (5,000 lbs. per 2-wheel trolley). For 605 TrojanTrack Girder the limitation is 3,750 lbs. (7,500 lbs. per 2-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per 2-wheel trolley) when captive on bridge, or when used on Super-TrojanTrack runways. (Super-TrojanTrack requires .7500 in. min. thickness of top flange, .4375 in. min. thickness of web, and splices must be welded rather than bolted.)
7. Weights shown are based on single speed drive with brake and controls, rigid track supported flat-wire festoon bridge electrification, and 12" overhang each end of bridge.
8. Calculated for this crane.
9. B = Girder depth plus 2". (Tread to tread.)
10. Prices include the HP shown. For larger HP, see modifications.

**WARNING:** Equipment described herein is not designed for and should not be used for lifting, supporting, or transporting humans. Use of the equipment for this purpose can result in serious bodily injury and/or property damage.



**ACCO Material Handling Solutions**  
76 Acco Drive, Box 792, York, PA 17405-0792  
717-741-4863, 800-967-7333, FAX 800-715-8897  
E-mail: info@accomhs.com www.accomhs.com

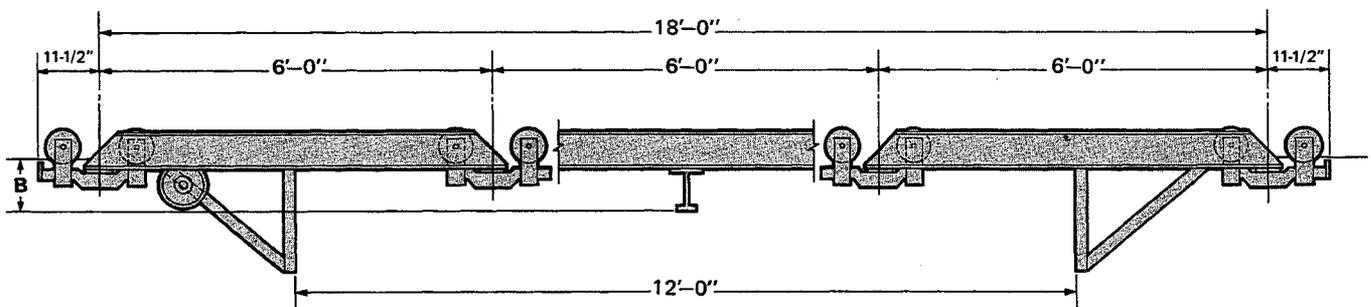


**LOUDEN<sup>SM</sup> 510 SINGLE GIRDER  
MOTOR PROPELLED TRUSS CRANES  
WITH CENTER DRIVE.**

510 Page 5  
Issued 9-7-01

**Single Girder, Motor Propelled with Center Drive, Two-Runway, Truss Cranes  
to run on 604 SuperTrack Girder or 605 TrojanTrack Girder.**

Max Span Ft.	Trusses		Crane Weight Lbs.	Motor H.P. Speed-FPM 75	Overhang				End Trucks			
	Centers Ft.	Depth In.			In. Std.	In. Min.	In. Max.	505.7830 Latch	No. Whls.	Capacity Maximum	Wheel Load Per Pair (8)	Wheel Base(s)
<b>Catalogue No. 510.15003</b>					<b>15,000 Lbs. Capacity</b>				<b>20,350 Lbs. Design Load (5)</b>			
60	12	48	14300	1½	12	8½	18	15	16	40000	3438	6'-6'-6'
65	12	48	15920	1½	12	8½	18	15	16	40000	3539	6'-6'-6'
70	12	54	16940	1½	12	8½	18	15	16	40000	3603	6'-6'-6'
75	12	60	18260	1½	12	8½	18	15	16	40000	3685	6'-6'-6'
80	12	60	19280	1½	12	8½	18	15	16	40000	3749	6'-6'-6'
85	12	66	20300	1½	12	8½	18	15	16	40000	3813	6'-6'-6'
90	12	72	21720	1½	12	8½	18	15	16	40000	3902	6'-6'-6'
95	12	72	22740	1½	12	8½	18	15	16	40000	3965	6'-6'-6'
100	12	78	23860	1½	12	8½	18	15	16	40000	4035	6'-6'-6'



**No. 510 Truck—40,000 Lbs. Capacity with 4½" Diameter Wheels.**

**NOTES:**

1. Speeds shown are based on using 1800 RPM motors.
2. Horsepowers shown are based on using single speed motors.
3. Available non-standard speeds are: 50, 110, 135, 165, 190, 255 FPM.
4. Standard 2-speed motors are 1800/600 RPM.
5. Design Load = Live Load, plus 15% live load for impact, plus 3,100 lbs. for hoist and trolley.
6. Maximum permissible wheel load on 603 SuperTrack and 604 type SuperTrack Girder is 2,500 lbs. (5,000 lbs. per 2-wheel trolley). For 605 TrojanTrack Girder the limitation is 3,750 lbs. (7,500 lbs. per 2-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per 2-wheel trolley) when captive on bridge, or when used on Super-TrojanTrack runways. (Super-TrojanTrack requires .7500 in. min. thickness of top flange, .4375 in. min. thickness of web, and splices must be welded rather than bolted.)
7. Weights shown are based on single speed drive with brake and controls, rigid track supported flat-wire festoon bridge electrification, and 12" overhang each end of bridge.
8. Calculated for this crane.
9. B = Girder depth plus 2". (Tread to tread.)
10. Prices include the HP shown. For larger HP, see modifications.

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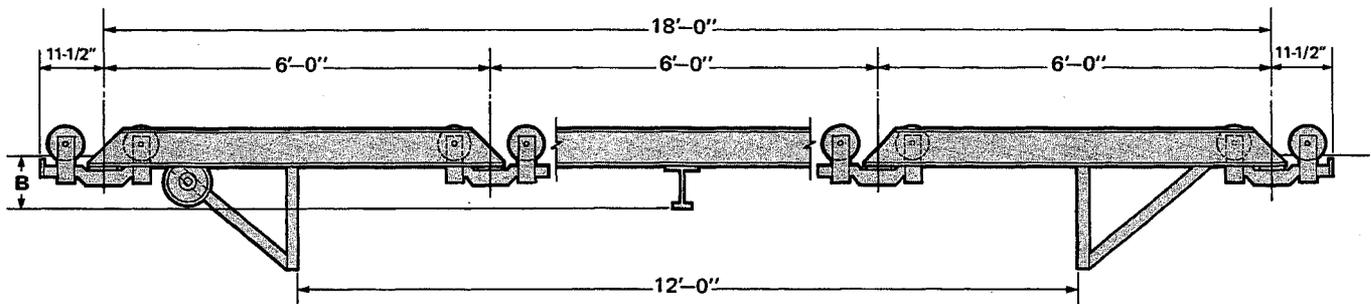


**LOUDEN® 510 SINGLE GIRDER  
MOTOR PROPELLED TRUSS CRANES  
WITH CENTER DRIVE.**

510 Page 6  
Issued 9-7-01

Single Girder, Motor Propelled with Center Drive, Two-Runway, Truss Cranes  
to run on 604 SuperTrack Girder or 605 TrojanTrack Girder.

Max Span Ft.	Trusses		Crane Weight Lbs.	Motor H.P. Speed-FPM 75	Overhang				End Trucks			
	Centers Ft.	Depth In.			In. Std.	In. Min.	In. Max.	505.7830 Latch	No. Whls.	Capacity Maximum	Wheel Load Per Pair (8)	Wheel Base(s)
<b>Catalogue No. 510.20003</b>					<b>20,000 Lbs. Capacity</b>				<b>26,200 Lbs. Design Load (5)</b>			
60	12	48	15700	1½	12	8½	18	15	16	40000	4257	6'-6'-6'
65	12	48	16720	1½	12	8½	18	15	16	40000	4320	6'-6'-6'
70	12	54	18840	1½	12	8½	18	15	16	40000	4453	6'-6'-6'
75	12	60	20260	1½	12	8½	18	15	16	40000	4542	6'-6'-6'
80	12	60	21380	1½	12	8½	18	15	16	40000	4612	6'-6'-6'
85	12	66	22600	1½	12	8½	18	15	16	40000	4688	6'-6'-6'
90	12	72	24140	2	12	8½	18	15	16	40000	4784	6'-6'-6'
95	12	72	25260	2	12	8½	18	15	16	40000	4854	6'-6'-6'
100	12	78	26480	2	12	8½	18	15	16	40000	4930	6'-6'-6'



**No. 510 Truck—40,000 Lbs. Capacity with 4½" Diameter Wheels.**

**NOTES:**

1. Speeds shown are based on using 1800 RPM motors.
2. Horsepowers shown are based on using single speed motors.
3. Available non-standard speeds are: 50, 110, 135, 165, 190, 255 FPM.
4. Standard 2-speed motors are 1800/600 RPM.
5. Design Load = Live Load, plus 15% live load for impact, plus 3,200 lbs. for hoist and trolley.
6. Maximum permissible wheel load on 603 SuperTrack and 604 type SuperTrack Girder is 2,500 lbs. (5,000 lbs. per 2-wheel trolley). For 605 TrojanTrack Girder the limitation is 3,750 lbs. (7,500 lbs. per 2-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per 2-wheel trolley) when captive on bridge, or when used on Super-TrojanTrack runways. (Super-TrojanTrack requires .7500 in. min. thickness of top flange, .4375 in. min. thickness of web, and splices must be welded rather than bolted.)
7. Weights shown are based on single speed drive with brake and controls, rigid track supported flat-wire festoon bridge electrification, and 12" overhang each end of bridge.
8. Calculated for this crane.
9. B = Girder depth plus 2". (Tread to tread.)
10. Prices include the HP shown. For larger HP, see modifications.

**WARNING:** Equipment described herein is not designed for and should not be used for lifting, supporting, or transporting humans. Use of the equipment for this purpose can result in serious bodily injury and/or property damage.



**ACCO Material Handling Solutions**  
76 Acco Drive, Box 792, York, PA 17405-0792  
717-741-4863, 800-967-7333, FAX 800-715-8897  
E-mail: info@accomhs.com www.accomhs.com

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