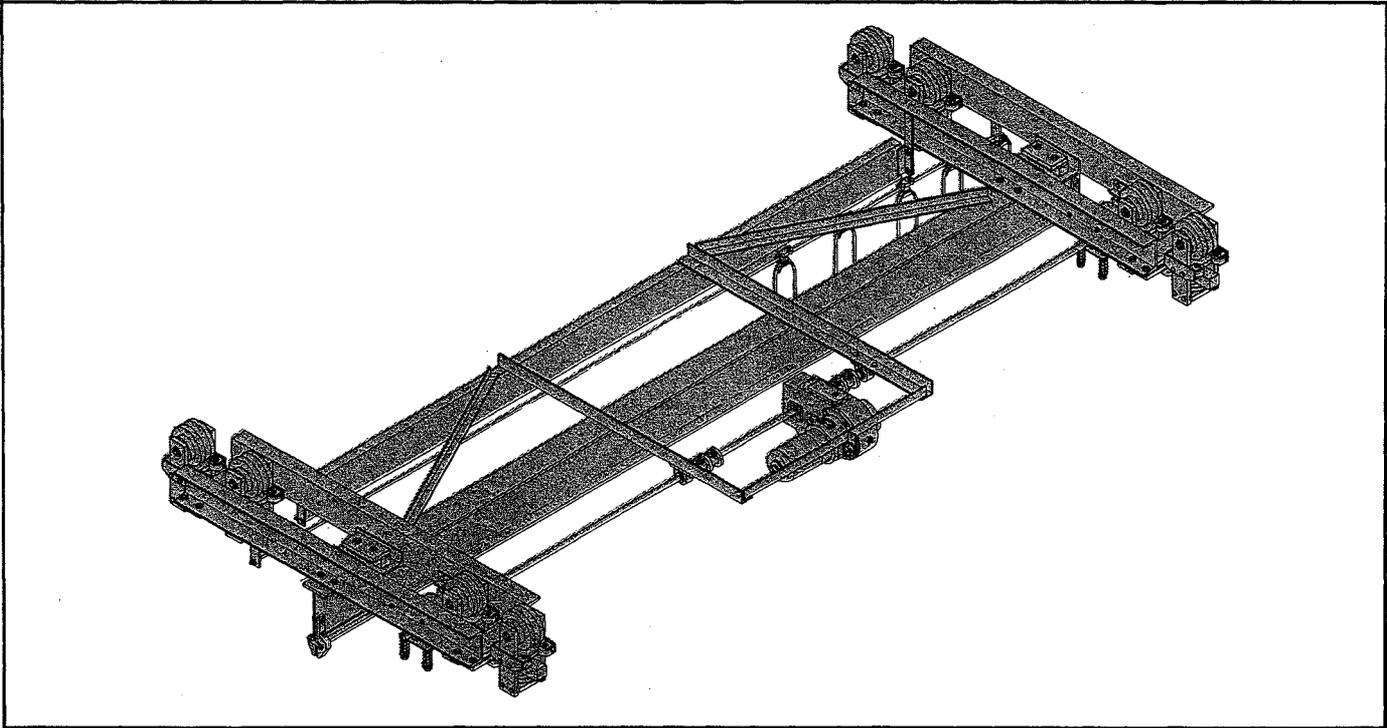




**LOUDEN® 503T SINGLE GIRDER
MOTOR PROPELLED CRANES
WITH CENTER DRIVE**

503T-1
Issued 9-7-01

**Single Girder, Motor Propelled Cranes With Center Drive, To Operate on Two-Runways
of 605 Trojan Track Girder, 3.33" Operating Flange, For Use With Electric, Air, or Hand Chain Hoists**



The Louden Series 503T center drive crane is offered in capacities of 5 through 10 tons, with spans to 60 feet. Standard bridge speeds are 75 and 135 F.P.M., single speed. Optional travel speeds (single speed) are 50, 110, 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 503T series crane is designed for Class C moderate service (as defined by the above ANSI standard).

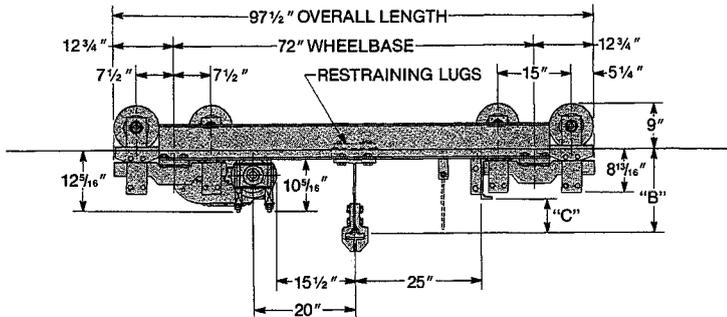
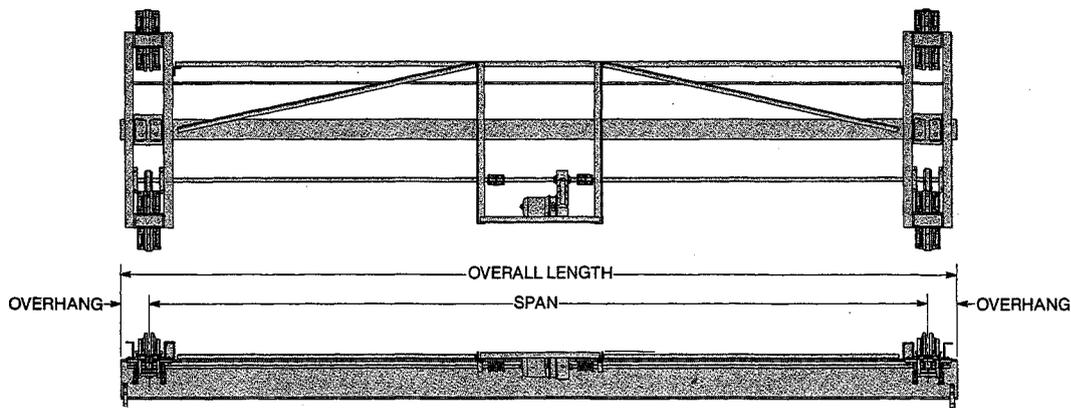
The crane is fully assembled before shipment, including the tagline festoon system, The crane will be painted with one coat of yellow lead free alkyd enamel.

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.



**LOUDEN® 503T SINGLE GIRDER
MOTOR PROPELLED CRANES
WITH CENTER DRIVE**

503T-2
Issued 9-7-01



- NOTES:**
1. Speeds shown are based on using 1800 R.P.M. motors.
 2. Horsepowers shown are based on using single speed motors.
 3. Available non-standard speeds are: 50, 110, 165, 190, 255 F.P.M.
 4. Standard 2-speed motors are 1800/600 R.P.M.
 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 605 Trojan Track Girder is 3,750 lbs. (7500 lbs. per two-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. per two-wheel trolley) when captive on bridge, or when used on Super-Trojan Track Runways. (Super-Trojan Track requires .7500 in. min. thickness of top flange, .4375 in. min. thickness of web, and splice must be welded rather than bolted.)
 7. Weights shown are based on single speed drive with brake and controls, flat-wire festoon tagline bridge electrification, and 12" overhang each end of bridge.
 8. Calculated for this crane.
 9. B = Girder depth plus 2" (Trd. To Trd.)

Max. Span Ft.	Bridge Girder Required	Crane Weight (Lbs.)	Motor H.P.		OVERHANG					Truck Capacity (Max.)	Wheel Load Per Pair (8)	Idler Trl. Wheel & Axle	Dim. "C"
			Speed (F.P.M.)		In. Std.	In. Min.	In. Max.	505.7824 Latch	505.7830 Latch				
Catalog Number 503T.10003			10,000 lbs. Capacity					14,500 lbs. Design Load ⁽⁵⁾					
20	605.1543	4307	3/4	1 1/2	12	9 1/2	18	18	16	30,000	4,164	28-0589	7"
22	605.1543	4559	3/4	1 1/2	12	9 1/2	18	18	16	30,000	4,195	28-0589	7"
24	605.1543	4654	3/4	1 1/2	12	9 1/2	18	18	16	30,000	4,207	28-0589	7"
26	605.1543	4749	3/4	1 1/2	12	9 1/2	18	18	16	30,000	4,219	28-0589	7"
28	605.1850	5280	1	1 1/2	12	9 1/2	18	18	16	30,000	4,285	28-0589	8"
30	605.1850	5416	1	1 1/2	12	9 1/2	18	18	16	30,000	4,302	28-0589	8"
32	605.1850	5552	1	1 1/2	12	9 1/2	18	18	16	30,000	4,319	28-0589	8"
34	605.2166	6313	1	1 1/2	12	9 1/2	18	18	16	30,000	4,415	28-0589	9"
36	605.2166	6479	1	1 1/2	12	9 1/2	18	18	16	30,000	4,435	28-0589	9"
38	605.2166	6645	1	1 1/2	12	9 1/2	18	18	16	30,000	4,456	28-0589	9"
40	605.2166	6811	1	1 1/2	12	9 1/2	18	18	16	30,000	4,477	28-0589	9"
42	605.2474	7721	1	1 1/2	12	9 1/2	18	18	16	30,000	4,591	28-0589	10"
44	605.2474	7919	1	1 1/2	12	9 1/2	18	18	16	30,000	4,615	28-0589	10"
46	605.2474	8117	1	1 1/2	12	9 1/2	18	18	16	30,000	4,640	28-0589	10"
48	605.2474	8315	1	1 1/2	12	9 1/2	18	18	16	30,000	4,665	28-0589	10"
50	605.2785	9250	1	1 1/2	12	9 1/2	18	18	16	30,000	4,782	28-0589	13"
52	605.2785	9470	1	1 1/2	12	9 1/2	18	18	16	30,000	4,809	28-0589	13"
54	605.3089	10,188	1	1 1/2	12	9 1/2	18	18	16	30,000	4,899	28-0589	14"
56	605.3089	10,424	1	1 1/2	12	9 1/2	18	18	16	30,000	4,928	28-0589	14"
58	605.3292	10,859	1	1 1/2	12	9 1/2	18	18	16	30,000	4,983	28-0589	16"
60	605.3292	11,101	1	1 1/2	12	9 1/2	18	18	16	30,000	5,013	28-0589	16"

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.



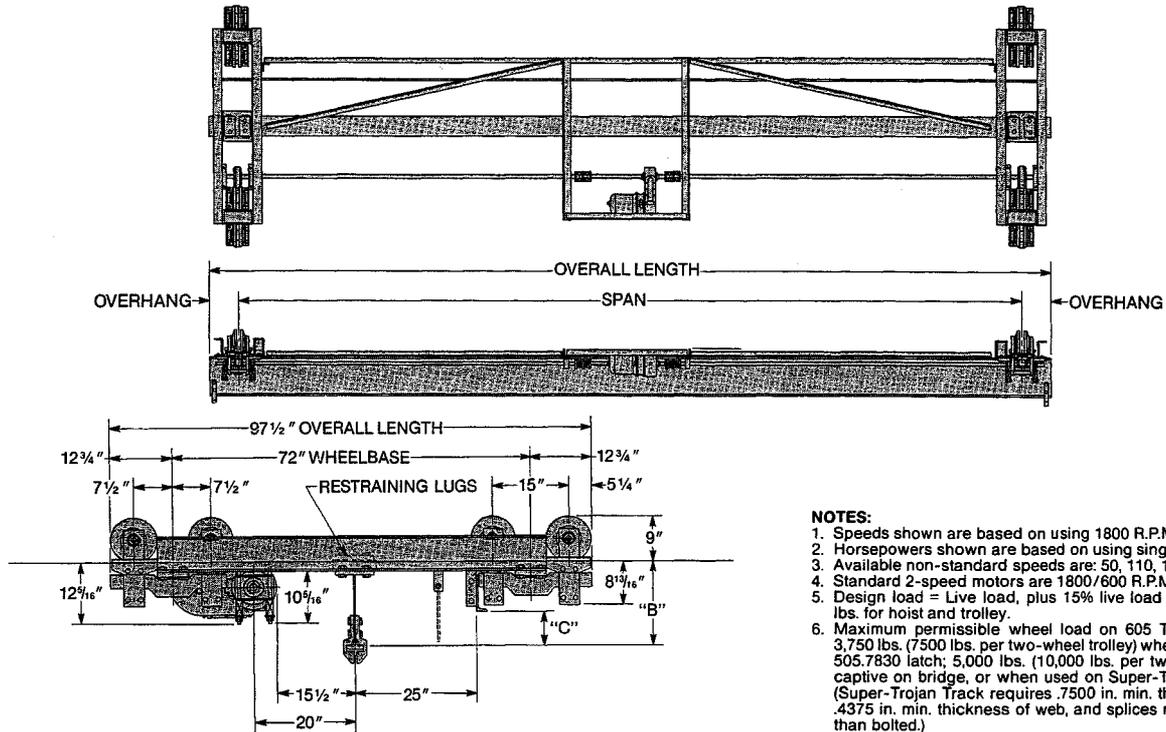
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**LOUDEN® 503T SINGLE GIRDER
MOTOR PROPELLED CRANES
WITH CENTER DRIVE**

503T-3
Issued 9-7-01



NOTES:

1. Speeds shown are based on using 1800 R.P.M. motors.
2. Horsepowers shown are based on using single speed motors.
3. Available non-standard speeds are: 50, 110, 165, 190, 255 F.P.M.
4. Standard 2-speed motors are 1800/600 R.P.M.
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 605 Trojan Track Girder is 3,750 lbs. (7,500 lbs. per two-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per two-wheel trolley) when captive on bridge, or when used on Super-Trojan Track Runways. (Super-Trojan Track 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, flat-wire festoon tagline bridge electrification, and 12" overhang each end of bridge.
8. Calculated for this crane.
9. B = Girder depth plus 2" (Trd. To Trd.)

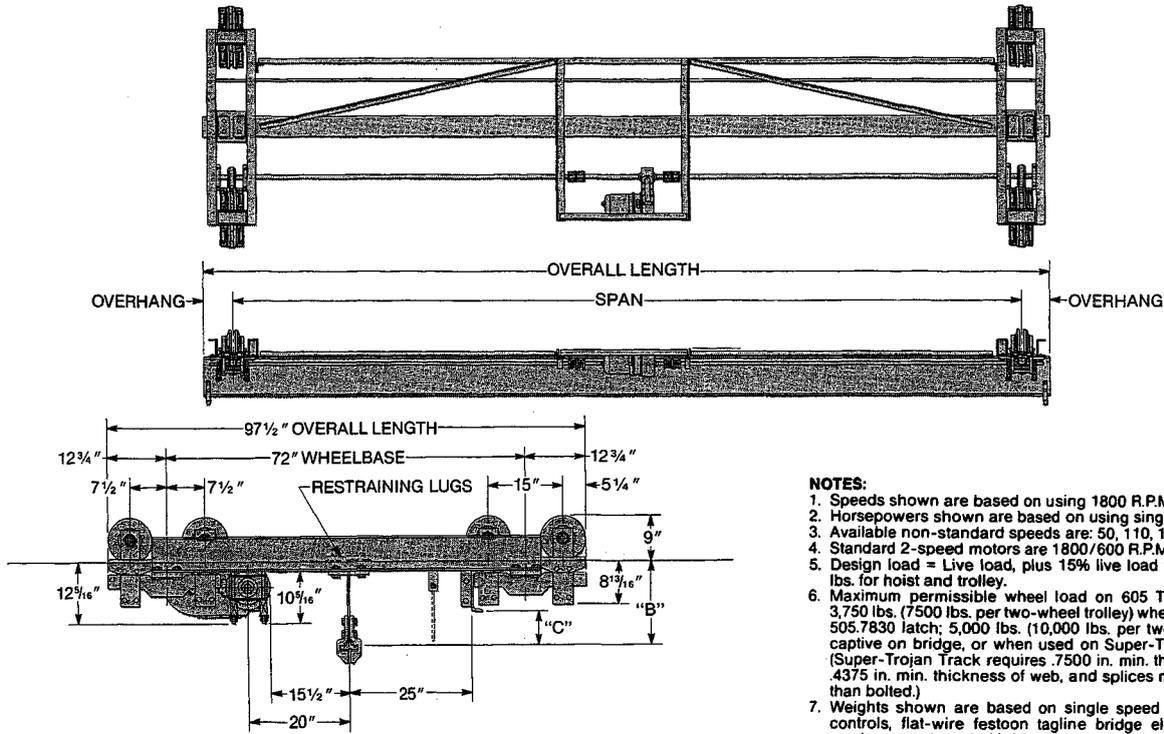
Max. Span Ft.	Bridge Girder Required	Crane Weight (Lbs.)	Motor H.P.		OVERHANG				Truck Capacity (Max.)	Wheel Load Per Pair (8)	Idler Trl. Wheel & Axle	Dim. "C"
			Speed (F.P.M.)		In. Std.	In. Min.	In. Max.	505.7830 Latch				
Catalog Number 503T.15003			15,000 lbs. Capacity						20,350 lbs. Design Load ⁽⁵⁾			
16	605.1543	4105	1	1 1/2	12	9 1/2	18	16	30,000	5,601	28-0589	7"
18	605.1543	4220	1	1 1/2	12	9 1/2	18	16	30,000	5,615	28-0589	7"
20	605.1543	4369	1	1 1/2	12	9 1/2	18	16	30,000	5,634	28-0589	7"
22	605.1850	4652	1	1 1/2	12	9 1/2	18	16	30,000	5,669	28-0589	10"
24	605.1850	4781	1	1 1/2	12	9 1/2	18	16	30,000	5,686	28-0589	10"
26	605.2166	5582	1	1 1/2	12	9 1/2	18	16	30,000	5,786	28-0589	11"
28	605.2166	5750	1	1 1/2	12	9 1/2	18	16	30,000	5,807	28-0589	11"
30	605.2166	5918	1	1 1/2	12	9 1/2	18	16	30,000	5,828	28-0589	11"
32	605.2474	6378	1	2	12	9 1/2	18	16	30,000	5,885	28-0589	14"
34	605.2474	6615	1	2	12	9 1/2	18	16	30,000	5,915	28-0589	12"
36	605.2474	6797	1	2	12	9 1/2	18	16	30,000	5,938	28-0589	12"
38	605.2474	6979	1	2	12	9 1/2	18	16	30,000	5,960	28-0589	12"
40	605.2474	7161	1	2	12	9 1/2	18	16	30,000	5,983	28-0589	12"
42	605.2785	8257	1	2	12	9 1/2	18	16	30,000	6,120	28-0589	13"
44	605.2785	8461	1	2	12	9 1/2	18	16	30,000	6,146	28-0589	13"
46	605.2785	8665	1	2	12	9 1/2	18	16	30,000	6,171	28-0589	13"
48	605.2785	8885	1	2	12	9 1/2	18	16	30,000	6,199	28-0589	13"
50	605.3089	9469	1 1/2	2	12	9 1/2	18	16	30,000	6,272	28-0589	16"
52	605.3089	9697	1 1/2	2	12	9 1/2	18	16	30,000	6,300	28-0589	16"
54	605.3292	10,103	1 1/2	2	12	9 1/2	18	16	30,000	6,351	28-0589	18"

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.



**LOUHEN® 503T SINGLE GIRDER
MOTOR PROPELLED CRANES
WITH CENTER DRIVE**

503T-4
Issued 9-7-01



- NOTES:**
1. Speeds shown are based on using 1800 R.P.M. motors.
 2. Horsepowers shown are based on using single speed motors.
 3. Available non-standard speeds are: 50, 110, 165, 190, 255 F.P.M.
 4. Standard 2-speed motors are 1800/600 R.P.M.
 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 605 Trojan Track Girder is 3,750 lbs. (7500 lbs. per two-wheel trolley) when transferring through 505.7830 latch; 5,000 lbs. (10,000 lbs. per two-wheel trolley) when captive on bridge, or when used on Super-Trojan Track Runways. (Super-Trojan Track 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, flat-wire festoon tagline bridge electrification, and 12" overhang each end of bridge.
 8. Calculated for this crane.
 9. B = Girder depth plus 2" (Trd. To Trd.)

Max. Span Ft.	Bridge Girder Required	Crane Weight (Lbs.)	Motor H.P.		OVERHANG				Truck Capacity (Max.)	Wheel Load Per Pair (8)	Idler Trl. Wheel & Axle	Dim. "C"	
			Speed (F.P.M.)		In. Std.	In. Min.	In. Max.	505.7830 Latch					
			75	135									
Catalog Number 503T.20003			20,000 lbs. Capacity						26,200 lbs. Design Load⁽⁵⁾				
14	605.1543	3882	1 1/2	2	12	9 1/2	18	16	30,000	7,036	28-0589	9"	
16	605.1850	4243	1 1/2	2	12	9 1/2	18	16	30,000	7,081	28-0589	10"	
18	605.1850	4372	1 1/2	2	12	9 1/2	18	16	30,000	7,097	28-0589	10"	
20	605.1850	4501	1 1/2	2	12	9 1/2	18	16	30,000	7,113	28-0589	10"	
22	605.2166	5252	1 1/2	2	12	9 1/2	18	16	30,000	7,207	28-0589	13"	
24	605.2166	5420	1 1/2	2	12	9 1/2	18	16	30,000	7,228	28-0589	13"	
26	605.2166	5588	1 1/2	2	12	9 1/2	18	16	30,000	7,249	28-0589	13"	
28	605.2474	6030	1 1/2	2	12	9 1/2	18	16	30,000	7,304	28-0589	14"	
30	605.2474	6214	1 1/2	2	12	9 1/2	18	16	30,000	7,327	28-0589	14"	
32	605.2474	6398	1 1/2	2	12	9 1/2	18	16	30,000	7,350	28-0589	14"	
34	605.2785	7048	1 1/2	2	12	9 1/2	18	16	30,000	7,431	28-0589	15"	
36	605.2785	7252	1 1/2	2	12	9 1/2	18	16	30,000	7,457	28-0589	15"	
38	605.2785	7456	1 1/2	2	12	9 1/2	18	16	30,000	7,482	28-0589	15"	
40	605.2785	8338	1 1/2	2	12	9 1/2	18	16	40,000	7,593	28-0665	15"	
42	605.3089	8734	1 1/2	2	12	9 1/2	18	16	40,000	7,642	28-0665	18"	
44	605.3089	8962	1 1/2	2	12	9 1/2	18	16	40,000	7,671	28-0665	18"	
46	605.3089	9207	1 1/2	2	12	9 1/2	18	16	40,000	7,701	28-0665	16"	
48	605.3292	9585	1 1/2	2	12	9 1/2	18	16	40,000	7,749	28-0665	18"	

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.



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