

Quantum Series Electric Chain Hoist



1/8 – 5 metric ton Lifting Capacity

Features:

1. Eyebolt suspension:

An eyebolt suspension is standard with motorized and plain trolleys. Unlike rigid suspensions, the eyebolt suspension allows the hoist to pivot and align itself to the direction of load pull, reducing stress and wear. (Hook suspension can be substituted).



2. Overload clutch for asset protection:

The overload clutch is factory set to limit Quantum from lifting loads in excess of 150% of rated hoisting capacity.



3. Gear case:

Smooth and compact design with a helical/spur gear combination providing “grab free” movement and quiet, reliable operation. Optimum lubrication – Gears are lubricated with a semiliquid grease instead of oil, which is less likely to leak, eliminates oil level checks and clings to the gears even after long idle periods. Quantum will even work upside down.

4. Chain guide and wheel:

A “floating” chain guide precisely feeds chain onto a machined-matched five-pocket chain wheel. This system insures smooth, jam resistant operation, and extends load chain, and chain wheel life.



5. Optimized load chain:

Quantum load chain is precision formed from alloy steel, case hardened and zinc plated. The plating is an IR proprietary process, which resists corrosion better than any standard plating offered for load chain. Controlled elongation: Quantum chain is engineered to elongate a minimum of 10%. This ability to stretch reduces the possibility of catastrophic failure under sudden loading.



6. Motors:

High starting torque – Quantum motors are a totally enclosed non-ventilated (TENV) squirrel cage design. The H4 duty classification of the three phase models allows for 300 starts and 30 minutes “on time” per hour. Class F insulation allows a total thermal rating of 145° C at a 1.0 service factor, instead of the more common Class B insulation of 120° C. Quantum motors can take the heat!
Phased to your needs – Single phase motors are available as 115 or 230 volt. Because single-phase motors are subject to low voltages that create higher motor temperatures, these Quantum hoists are equipped with “klixons,” bimetal heat switches that prevent motor burnout. *Three phase motors* – are available in 230, 380, 460, and 575 volts, single and dual speeds. The 230/460 volt, single speed motors are field reconnectable.
Dual speed motors – feature 4, 5, or 6 to 1 high to low speed ratios instead of the typical 3 to 1 ratios. The advantages are unsurpassed load control, reduced cycle time and improved productivity. The overload clutch and Class F insulation eliminate the cost of “klixons.”

7. Brake:

Metal discs stack up against wear – Quantum has a state-of-the-art AC motor brake employing all-steel discs. Multiple stacking significantly increases braking surface area, reducing wear and extending life. This system eliminates the breakage common with fiber discs and the heavier steel springs and DC solenoids they require. Quantum brake discs are guaranteed for the life of the hoist.



8. Electrical controls:

Safety-first pendent – Quantum’s safety-first pendent control handles are comfortable and fit securely in the operator’s hand. Each low voltage (42 volt) control handle integrates a large, red emergency stop button. Operating buttons are clearly marked with high contrast arrows, feature soft push action, and are horizontally aligned for easier operation.
Emergency shut-off – Activated from the pendent handle, the mainline contactor disconnects the power to the hoist and trolley motor providing “shut-off protection” in an emergency situation.
Easy accessibility – Quantum enclosures are weatherproof, NEMA 3R rated. The removal of just four fasteners (slot-head on the electrical parts cover and allen-head on the mechanical parts cover) allows access to components. Since electrical and mechanical components can be accessed separately, service is quick and clean.

9. Limit switches:

Fail-safe limits – Quantum limit levers are recessed in the hoist enclosure. This clean, obstruction-free assembly virtually eliminates accidental activation of switches. Upper and lower switches are activated by the hook and end stop, eliminating time-consuming adjustments.



Quantum Series Electric Chain Hoist


1/8 – 5 metric ton Lifting Capacity

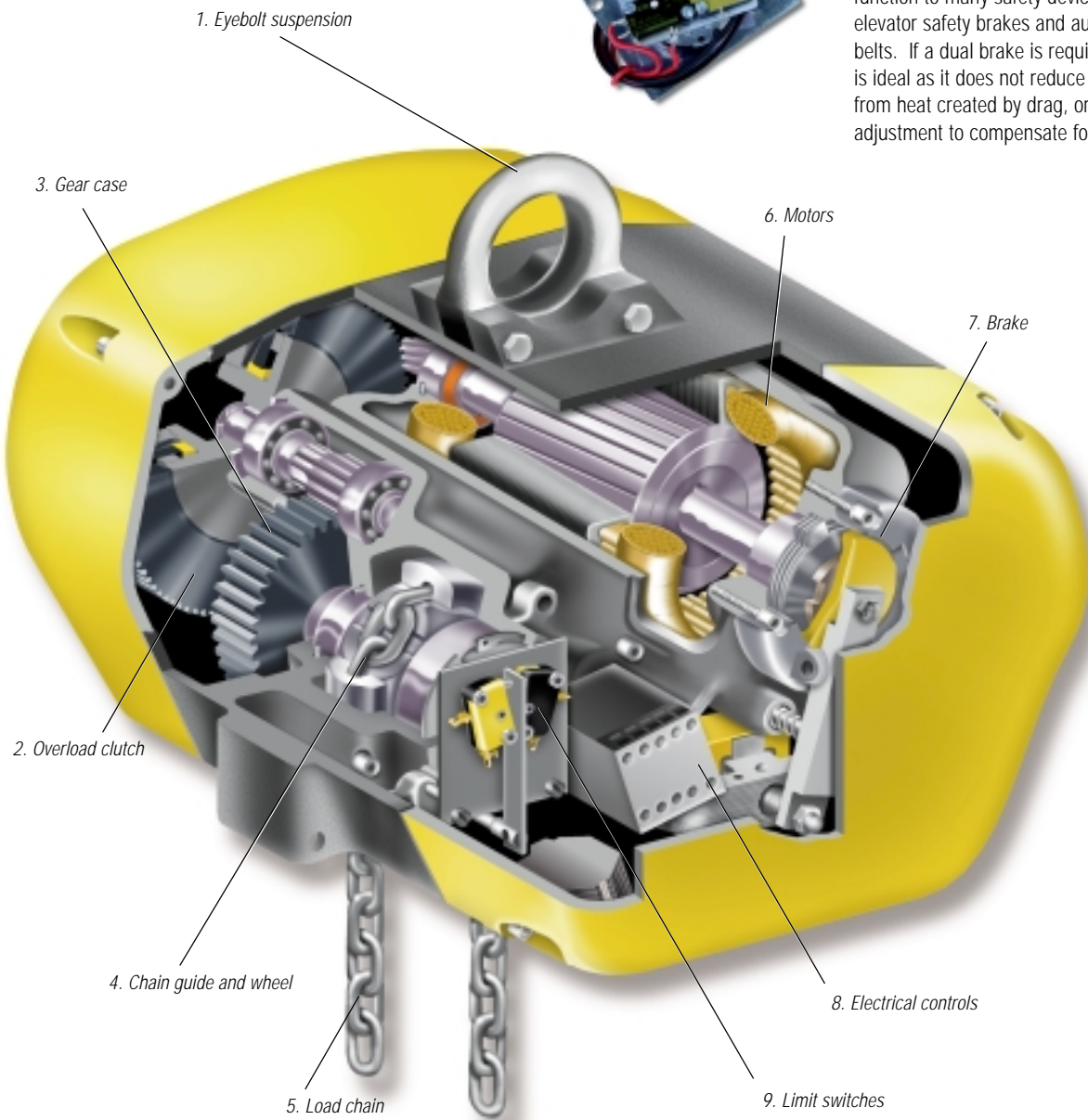


Design Features:

- UL and C-UL listed (except 380 volt units). Complete unit listed number is 5D48.
- Meets I-R's interpretation of ANSI B30.16 and pertinent European FEM standards.
- Small compact light weight, high tensile strength, die cast aluminum housing.
- NEMA 3R hoist enclosure and NEMA 4X pendent enclosure can be used outdoors.
- Universal tread trolley wheels fit tapered or flat flange beams.
- Hook, eyebolt, push trolley or motorized trolley suspensions.
- Safety lugs on all trolleys.
- Anti-tip lugs on motorized trolleys.
- Well balanced, modular design.

Options:

- Trolley brake.
 - Chain container.
 - External strain relief.
 - Power cord lengths.
 - Geared limits.
 - Handy Handle.
 - 110 Volt controls.
 - Inertia type mechanical load brake.
 - Pendent with vertical aligned buttons.
 - Pendent with additional 2 or 4 aligned buttons.
 - Bullard top and bottom hooks.
- Optional pendent handle with additional buttons*
- 
- Optional geared limit switch*
- 
- Inertia type mechanical load brake. This option specifies a bolt-on inertia mechanical load brake. The inertia type brake responds to overspeed of the load. It's similar in function to many safety devices including elevator safety brakes and automotive seat belts. If a dual brake is required this option is ideal as it does not reduce duty cycle, from heat created by drag, or require adjustment to compensate for wear.



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Quantum Series specifications

Base model	Cap. metric tons	Chain falls	Lift spd fpm	Motor hp used	Amperage						Chain & pendent wt (lbs/ft)	Eye & hook wt (lbs)	Curve radius min	S beam min	Push trolley, PT Series		Wt ⁽¹⁾ lbs
					Single phase 115V	230V	230V	Three phase 460V	575V	380V					Flange Width (in.) A	D	
Single Phase (Single Speed)																	
Q50-1NS12	1/8	1	32	0.3	13	6.7	n/a	n/a	n/a	n/a	.24	49	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	69
Q50-2NS25	1/4	2	16	0.3	13	6.7	n/a	n/a	n/a	n/a	.48	56	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	76
Q50-1NS25	1/4	1	36	0.7	13	6.7	n/a	n/a	n/a	n/a	.37	54	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	74
Q50-1NS50	1/2	1	18	0.7	13	6.7	n/a	n/a	n/a	n/a	.37	54	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	74
Q100-1NS50	1/2	1	32	1.2	16	8.0	n/a	n/a	n/a	n/a	.70	104	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	124
Q50-2NS100	1	2	9	0.7	13	6.7	n/a	n/a	n/a	n/a	.74	60	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	80
Q100-2NS100	1	2	16	1.2	16	8.0	n/a	n/a	n/a	n/a	1.40	123	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	178
Q200-1NS100	1	1	16	1.2	13	7.6	n/a	n/a	n/a	n/a	1.18	139	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	211
Q200-2NS200	2	2	8	1.2	13	7.6	n/a	n/a	n/a	n/a	2.36	167	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	222
Q500-1NS200	2	1	12	1.8	n/a	10.0	n/a	n/a	n/a	n/a	1.52	157	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	212
Q500-2NS300	3	2	6.2	1.4	n/a	10.0	n/a	n/a	n/a	n/a	3.04	173	60	8	4 – 6 ¹ / ₄	4 – 8 ¹ / ₁₆	279
Q500-2NS400	4	2	6.2	1.9	n/a	10.0	n/a	n/a	n/a	n/a	3.04	173	60	10	4 ²¹ / ₃₂ – 7 ¹ / ₄	4 ²¹ / ₃₂ – 8 ¹ / ₁₆	279
Three Phase (Single Speed)																	
Q50-1NS12	1/8	1	32	0.3	n/a	n/a	2.4	1.2	1.0	1.2	.24	49	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	69
Q50-1NS25	1/4	1	32	0.6	n/a	n/a	2.4	1.2	1.0	1.2	.24	49	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	69
Q50-1HS25	1/4	1	64	1.2	n/a	n/a	4.2	2.1	1.7	2.1	.37	54	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	74
Q50-1NS50	1/2	1	36	1.4	n/a	n/a	3.8	1.9	1.6	1.6	.37	54	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	74
Q100-1HS50	1/2	1	64	2.4	n/a	n/a	11.0	5.7	4.6	5.0	.70	100	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	120
Q50-2NS100	1	2	18	1.4	n/a	n/a	3.8	1.9	1.6	1.9	.74	60	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	90
Q100-1NS100	1	1	32	2.4	n/a	n/a	7.6	3.8	3.1	3.3	.70	100	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	130
Q100-2NS200	2	2	16	2.4	n/a	n/a	7.6	3.8	3.1	3.3	1.40	116	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	171
Q300-1NS200	2	1	32	4.8	n/a	n/a	16.0	7.8	6.3	6.8	1.18	149	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	204
Q200-2NS300	3	2	16	3.6	n/a	n/a	12.0	6.0	4.8	6.0	2.36	161	60	8	4 – 6 ¹ / ₄	4 – 8 ¹ / ₁₆	236
Q300-2NS400	4	2	16	4.8	n/a	n/a	16.0	7.8	6.3	6.8	3.04	173	60	10	4 ²¹ / ₃₂ – 7 ¹ / ₄	4 ²¹ / ₃₂ – 8 ¹ / ₁₆	279
Q500-2NS500	5	2	12.5	4.7	n/a	n/a	17.0	8.4	6.8	7.1	3.04	173	60	10	4 ²¹ / ₃₂ – 7 ¹ / ₄	4 ²¹ / ₃₂ – 8 ¹ / ₁₆	279
Three Phase (Dual Speed)																	
Q50-1ND12	1/8	1	32/6	0.3	n/a	n/a	3.6	1.8	1.5	1.8	.24	51	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	71
Q50-1ND25	1/4	1	32/6	0.6	n/a	n/a	3.6	1.8	1.5	1.6	.24	51	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	76
Q50-1HD25	1/4	1	50/8	1.2	n/a	n/a	4.4	2.2	1.8	2.2	.37	56	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	78
Q50-1ND50	1/2	1	36/6	1.4	n/a	n/a	4.4	2.2	1.8	2.1	.37	56	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	76
Q100-1HD50	1/2	1	64/16	2.4	n/a	n/a	9.8	4.9	4.0	4.9	.70	108	36	4	2 ¹¹ / ₁₆ – 4 ¹¹ / ₁₆	2 ¹¹ / ₁₆ – 8 ¹ / ₁₆	128
Q50-2ND100	1	2	18/3	1.4	n/a	n/a	4.4	2.2	1.8	2.1	.74	62	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	92
Q100-1ND100	1	1	32/8	2.4	n/a	n/a	8.0	4.0	3.2	3.5	.70	108	36	5	3 – 5 ¹ / ₄	3 – 8 ¹ / ₁₆	138
Q100-2ND200	2	2	16/4	2.4	n/a	n/a	8.0	4.0	3.2	3.5	1.40	125	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	180
Q300-1ND200	2	1	32/8	4.8	n/a	n/a	16.0	7.8	6.3	6.8	1.18	156	48	6	3 ¹¹ / ₃₂ – 6	3 ¹¹ / ₃₂ – 8 ¹ / ₁₆	211
Q200-2ND300	3	2	16/3	3.6	n/a	n/a	12.0	6.0	4.8	6.0	2.36	165	60	8	4 – 6 ¹ / ₄	4 – 8 ¹ / ₁₆	240
Q300-2ND400	4	2	16/4	4.8	n/a	n/a	16.0	7.8	6.3	6.8	3.04	178	60	10	4 ²¹ / ₃₂ – 7 ¹ / ₄	4 ²¹ / ₃₂ – 8 ¹ / ₁₆	284
Q500-2ND500	5	2	12.5/3	4.7	n/a	n/a	17.0	8.4	6.8	7.1	3.04	178	60	10	4 ²¹ / ₃₂ – 7 ¹ / ₄	4 ²¹ / ₃₂ – 8 ¹ / ₁₆	284

Notes:

Multiply speeds shown by .83 for 380V / 50 Hz units
 (1) 10 foot lift capacity only.



Eyebolt and Hook suspension



Motorized Trolley Suspension



PT Series Plain Trolley with Hook Suspension

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Quantum Series Motorized Trolley Specifications – M1, M3 and M4

Base Model	Capacity metric tons	Lifting speed fpm			Motor hp	3 Phase Amperage				S beam hght min in.	Min curve radius in.	Flange width (in.)				Wt ⁽¹⁾ lbs
		M1	M2	M4		230V	460V	575V	380V			A	B	C	D	
Three Phase (Single Speed)																
Q50-1NS12	1/8	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	109
Q50-1NS25	1/4	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	109
Q50-1HS25	1/4	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	114
Q50-1NS50	1/2	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	114
Q100-1HS50	1/2	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	174
Q50-2NS100	1	39	39	63	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	120
Q100-1NS100	1	39	39	63	.03	1.5	0.75	0.85	0.6	6	60	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	174
Q100-2NS200	2	39	39	63	.03	1.5	0.75	0.85	0.6	6	60	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	190
Q300-1NS200	2	39	39	63	.03	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	263
Q200-2NS300	3	39	39	63	.03	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	281
Q300-2NS400	4	39	39	63	.03	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	287
Q500-2NS500	5	39	39	63	.04	3.0	1.5	1.7	1.2	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	287
Three Phase (Dual Speed)																
Q50-1ND12	1/8	39	39/13	63/21	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	114
Q50-1ND25	1/4	39	39/13	63/21	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	111
Q50-1HD25	1/4	39	39/13	63/21	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	116
Q50-1ND50	1/2	39	39/13	63/21	.03	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	116
Q100-1HD50	1/2	39	39/13	63/21	.03	1.5	0.75	0.85	0.6	4	48	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	182
Q50-2ND100	1	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	4	48	1 ³¹ / ₃₂ - 3 ⁷ / ₈	3 ¹⁵ / ₁₆ - 5 ⁷ / ₈	5 ²⁹ / ₃₂ - 7 ²⁷ / ₃₂	7 ⁷ / ₈ - 9 ⁷ / ₁₆	122
Q100-1ND100	1	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	6	60	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	182
Q100-2ND200	2	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	6	60	3 - 5 ¹⁵ / ₃₂	5 ¹ / ₂ - 7 ⁵³ / ₆₄	7 ⁷ / ₈ - 10 ³ / ₁₆	10 ¹ / ₂ - 12 ⁵ / ₈	199
Q300-1ND200	2	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	270
Q200-2ND300	3	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	285
Q300-2ND400	4	39	39/13	63/21	.04	1.5	0.75	0.85	0.6	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	292
Q500-2ND500	5	39	39/13	63/21	.04	3.0	1.5	1.7	1.2	10	72	2 ³ / ₁₆ - 4 ¹¹ / ₁₆	4 ²³ / ₃₂ - 7 ¹ / ₁₆	7 ³ / ₃₂ - 9 ¹³ / ₃₂	9 ⁷ / ₁₆ - 11 ¹³ / ₁₆	292

Notes:

Multiply speeds shown by .83 for 380V / 50 Hz units
 (1) 10 foot lift capacity only.

Quantum Series Handy Handle

Pendent Control

NEW Handy Handle Control:

Ergonomically designed to provide control and operation at the hook as a robotic power extension of the operator's arm. The load can be positioned and controlled with one hand, freeing the other hand to position the load.

The Handy Handle can be ordered separately as a kit, to convert any 1/8, 1/4 and 1/2 ton single line Quantum hoist, or as an "H" control option on a new hoist. Each Handy Handle is standard with single or dual speed thumb control lever switches and includes the Quantum red stop safety button. A socket connection at the bottom allows the standard hook to be easily replaced by custom end effectors or grabs.



Quantum Series Electric Chain Hoist

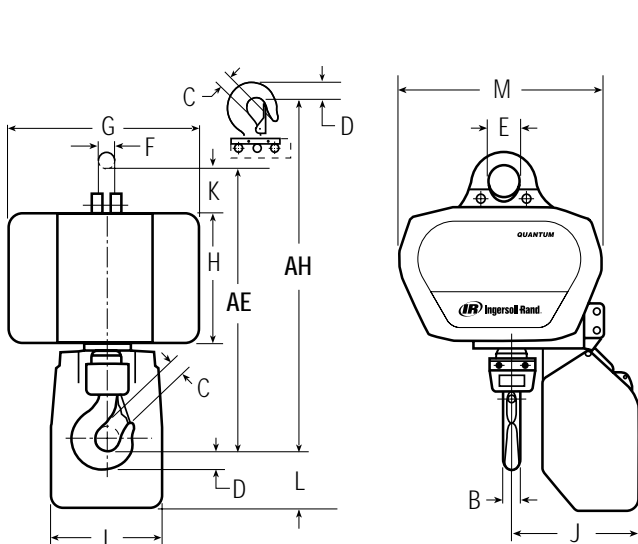
1/8 – 5 metric ton Lifting Capacity



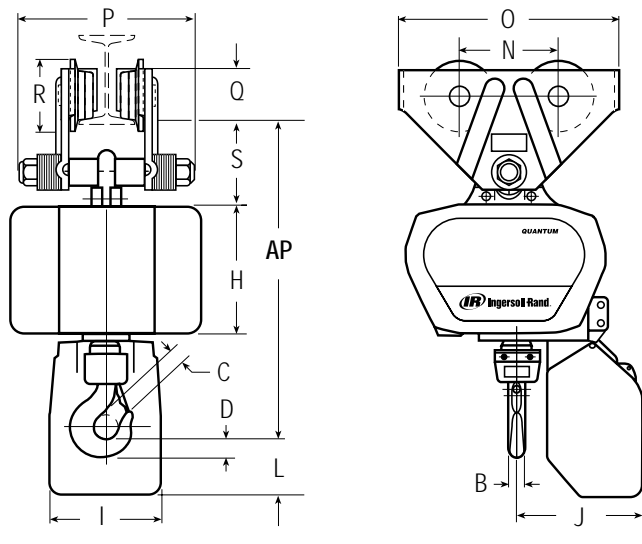
Quantum Series Dimensions (in.)

Base model	Capacity metric tons	Eye bolt AE	Hook mount AH	Push trolley AP	Motor trolley AM	B	C	D	E	F	G	H	I	J	K
Single Phase (Single Speed)															
Q50-1NS12	1/8	15 ⁵ / ₈	17 ¹ / ₂	18 ¹ / ₈	n/a	2 ⁹ / ₃₂	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ⁵ / ₈	2 ¹ / ₈
Q50-2NS25	1/4	15 ¹³ / ₃₂	17 ⁵ / ₁₆	17 ²⁹ / ₃₂	n/a	2 ⁹ / ₃₂	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	6 ¹³ / ₃₂	2 ¹ / ₈
Q50-1NS25	1/4	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	n/a	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ³ / ₄	2 ¹ / ₈
Q50-1NS50	1/2	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	n/a	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ³ / ₄	2 ¹ / ₈
Q100-1NS50	1/2	19 ¹ / ₈	21 ¹ / ₂	21 ⁵ / ₈	n/a	1 ³ / ₁₆	1 ³ / ₈	1 ³ / ₁₆	2	5/8	12 ¹³ / ₃₂	9 ¹ / ₈	7 ⁵ / ₁₆	8 ¹ / ₈	3
Q50-2NS100	1	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	n/a	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	6 ³ / ₄	2 ¹ / ₈
Q100-2NS100	1	22	24 ¹ / ₂	24 ¹ / ₂	n/a	1 ³ / ₁₆	1 ³ / ₈	1 ³ / ₁₆	2	1 ³ / ₁₆	12 ¹³ / ₃₂	9 ¹ / ₈	7 ⁵ / ₁₆	9 ¹ / ₂	3
Q200-1NS100	1	21 ¹³ / ₁₆	22 ³ / ₁₆	24 ⁵ / ₁₆	n/a	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	9 ¹³ / ₁₆	5 ¹³ / ₃₂
Q200-2NS200	2	26 ¹ / ₂	26 ²⁹ / ₃₂	28 ²⁹ / ₃₂	n/a	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂
Q500-1NS200	2	21 ²⁹ / ₃₂	22 ⁵ / ₁₆	24 ¹³ / ₃₂	n/a	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	9 ²⁹ / ₃₂	5 ¹³ / ₃₂
Q500-2NS300	3	26 ³ / ₄	27 ¹ / ₈	29 ⁵ / ₁₆	n/a	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂
Q500-2NS400	4	26 ³ / ₄	27 ¹ / ₈	29 ⁵ / ₁₆	n/a	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂
Three phase (Single and Dual speed)															
Q50-1NS12	1/8	15 ⁵ / ₈	17 ¹ / ₂	18 ¹ / ₈	17 ¹ / ₂	2 ⁹ / ₃₂	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ⁵ / ₈	2 ¹ / ₈
Q50-1NS25	1/4	15 ⁵ / ₈	17 ¹ / ₂	18 ¹ / ₈	17 ¹ / ₂	2 ⁹ / ₃₂	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ⁵ / ₈	2 ¹ / ₈
Q50-1HS25	1/4	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	18 ¹ / ₈	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ³ / ₄	2 ¹ / ₈
Q50-1NS50	1/2	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	18 ¹ / ₈	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	5 ³ / ₄	2 ¹ / ₈
Q100-1HS50	1/2	19 ¹ / ₈	21 ¹ / ₂	21 ⁵ / ₈	21 ¹³ / ₃₂	1 ³ / ₁₆	1 ³ / ₈	1 ³ / ₁₆	2	1 ³ / ₁₆	12 ¹³ / ₃₂	9 ¹ / ₈	7 ⁵ / ₁₆	8 ¹ / ₈	3
Q50-2NS100	1	16 ³ / ₁₆	18 ¹³ / ₃₂	18 ³ / ₄	18 ¹ / ₈	1	1 ¹ / ₈	1 ¹ / ₈	1 ⁵ / ₈	5/8	10 ²⁹ / ₃₂	7 ³ / ₁₆	6 ¹ / ₈	6 ³ / ₄	2 ¹ / ₈
Q100-1NS100	1	19 ¹ / ₈	21 ¹ / ₂	21 ⁵ / ₈	21 ¹³ / ₃₂	1 ³ / ₁₆	1 ³ / ₈	1 ³ / ₁₆	2	1 ³ / ₁₆	12 ¹³ / ₃₂	9 ¹ / ₈	7 ⁵ / ₁₆	8 ¹ / ₈	3
Q100-2NS100	2	22	26 ¹ / ₈	24 ¹ / ₂	24 ¹³ / ₃₂	1 ³ / ₁₆	1 ³ / ₈	1 ³ / ₁₆	2	1 ³ / ₁₆	12 ¹³ / ₃₂	9 ¹ / ₈	8 ¹³ / ₁₆	9 ¹ / ₂	3
Q300-1NS200	2	21 ²⁹ / ₃₂	22 ⁵ / ₁₆	24 ¹³ / ₃₂	24 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	9 ²⁹ / ₃₂	5 ¹³ / ₃₂
Q200-2NS300	3	26 ¹ / ₂	26 ²⁹ / ₃₂	29 ¹ / ₈	28 ⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂
Q300-2NS400	4	26 ¹ / ₂	26 ²⁹ / ₃₂	29	28 ⁵ / ₈	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂
Q500-2NS500	5	26 ³ / ₄	27 ¹ / ₈	29 ⁵ / ₁₆	28 ²⁹ / ₃₂	1 ¹ / ₂	1 ¹ / ₂	1 ⁵ / ₈	3	1/2	15 ¹ / ₈	9 ¹³ / ₃₂	8 ¹³ / ₁₆	11 ¹ / ₂	5 ¹³ / ₃₂

Quantum



Eyebolt and Hook suspension



PT Series Plain Trolley with Hook Suspension

Quantum Series Electric Chain Hoist

1/8 – 5 metric ton Lifting Capacity

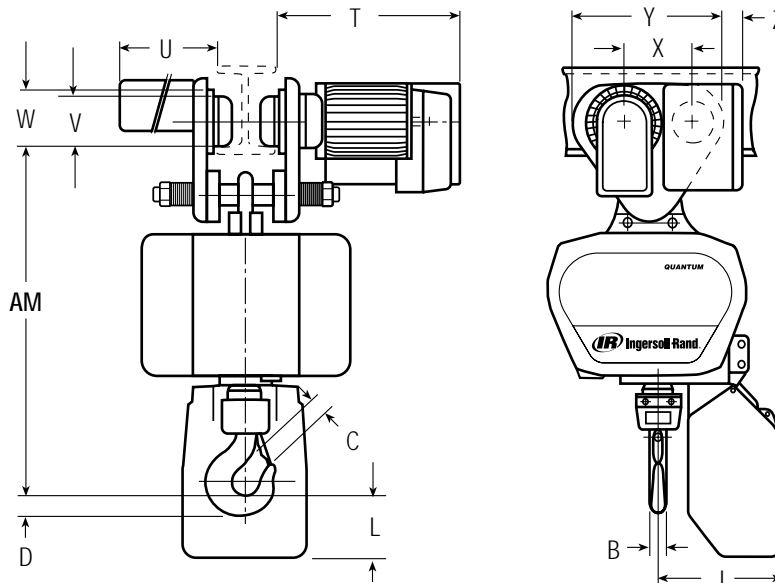


Quantum Series Dimensions (in.)

Base model	Cap. metric tons	L ¹	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Single Phase (Single Speed)																
Q50-1NS12	1/8	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q50-2NS25	1/4	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q50-1NS25	1/4	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q50-1NS50	1/2	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q100-1NS50	1/2	11 ^{1/2}	12 ^{3/4}	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	5 ^{1/2}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q50-2NS100	1	6 ^{15/16}	10	5 ^{5/8}	12 ^{5/8}	10	2 ^{13/16}	4 ^{3/16}	4 ^{5/8}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q100-2NS100	1	11 ^{1/2}	12 ^{3/4}	5 ^{5/8}	12 ^{5/8}	10	2 ^{13/16}	4 ^{3/16}	5 ^{1/2}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q200-1NS100	1	12 ^{3/4}	13 ^{3/16}	5 ^{5/8}	12 ^{5/8}	10	2 ^{13/16}	4 ^{3/16}	7 ^{15/16}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q200-2NS200	2	12 ^{3/4}	13 ^{3/16}	6 ^{1/2}	14 ^{15/16}	11 ^{3/16}	4 ^{5/16}	5 ^{3/4}	7 ^{15/16}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q500-1NS200	2	12 ^{3/4}	13 ^{3/16}	6 ^{1/2}	14 ^{15/16}	11 ^{3/16}	4 ^{5/16}	5 ^{3/4}	7 ^{15/16}	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q500-2NS300	3	12 ^{3/4}	13 ^{3/16}	6 ^{1/2}	14 ^{3/16}	12 ^{7/16}	4 ^{5/16}	5 ^{3/4}	8	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Q500-2NS400	4	12 ^{3/4}	13 ^{3/16}	6 ^{3/4}	15 ^{7/16}	14 ^{15/16}	4 ^{7/16}	6 ^{3/16}	8	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Three Phase (Single and Dual Speed)																
Q50-1ND12	1/8	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	10 ^{1/2}	8 ^{3/16}	2 ^{3/4}	3 ^{13/16}	4 ^{3/16}	8 ^{5/8}	2 ^{3/16}
Q50-1ND25	1/4	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	10 ^{1/2}	8 ^{3/16}	2 ^{3/4}	3 ^{13/16}	4 ^{3/16}	8 ^{5/8}	2 ^{3/16}
Q50-1HD25	1/4	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	10 ^{1/2}	8 ^{3/16}	2 ^{3/4}	3 ^{13/16}	4 ^{3/16}	8 ^{5/8}	2 ^{3/16}
Q50-1ND50	1/2	6 ^{15/16}	10	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	4 ^{5/8}	1 ^{1/2}	8 ^{3/16}	2 ^{3/4}	3 ^{13/16}	4 ^{3/16}	5 ^{5/8}	2 ^{3/16}
Q100-1HD50	1/2	11 ^{1/2}	12 ^{3/4}	4 ^{1/2}	10	8 ^{15/16}	2 ^{3/16}	3 ^{7/16}	5 ^{1/2}	10 ^{5/8}	8 ^{5/16}	3 ^{3/16}	4 ^{3/16}	4 ^{13/16}	9 ^{13/16}	1 ^{1/2}
Q50-2ND100	1	6 ^{15/16}	10	5 ^{5/8}	12 ^{5/8}	10	2 ^{13/16}	4 ^{3/16}	4 ^{5/8}	10 ^{1/2}	8 ^{3/16}	2 ^{3/4}	3 ^{13/16}	4 ^{3/16}	8 ^{5/8}	2 ^{3/16}
Q100-1ND100	1	11 ^{1/2}	12 ^{3/4}	5 ^{5/8}	12 ^{5/8}	10	2 ^{13/16}	4 ^{3/16}	5 ^{1/2}	10 ^{5/8}	8 ^{5/16}	3 ^{3/16}	4 ^{3/16}	4 ^{13/16}	9 ^{13/16}	1 ^{1/2}
Q100-2ND100	2	11 ^{1/2}	12 ^{3/4}	6 ^{1/2}	14 ^{15/16}	11 ^{3/16}	4 ^{5/16}	5 ^{3/4}	5 ^{1/2}	10 ^{5/8}	8 ^{5/16}	3 ^{3/16}	4 ^{3/16}	4 ^{13/16}	9 ^{13/16}	1 ^{1/2}
Q300-1ND200	2	12 ^{3/4}	13 ^{3/16}	6 ^{1/2}	14 ^{15/16}	11 ^{3/16}	4 ^{5/16}	5 ^{3/4}	7 ^{15/16}	10 ^{13/16}	8 ^{7/2}	4	4 ^{3/4}	5 ^{29/32}	12 ^{3/16}	5 ^{1/16}
Q200-2ND300	3	12 ^{3/4}	13 ^{3/16}	6 ^{1/2}	14 ^{3/16}	14 ^{3/16}	4 ^{5/16}	5 ^{3/4}	8	10 ^{13/16}	8 ^{1/2}	4	4 ^{3/4}	5 ^{29/32}	12 ^{3/16}	5 ^{1/16}
Q300-2ND400	4	12 ^{3/4}	13 ^{3/16}	6 ^{3/4}	15 ^{7/16}	14 ^{15/16}	4 ^{7/16}	6 ^{3/16}	8	10 ^{13/16}	8 ^{1/2}	4	4 ^{3/4}	5 ^{29/32}	12 ^{3/16}	5 ^{1/16}
Q500-2ND500	5	12 ^{3/4}	13 ^{3/16}	6 ^{3/4}	15 ^{7/16}	14 ^{15/16}	4 ^{7/16}	6 ^{3/16}	8	10 ^{13/16}	9 ^{3/4}	4	4 ^{3/4}	5 ^{29/32}	12 ^{3/16}	5 ^{1/16}

Notes:

Multiply speeds shown by .83 for 380V / 50 Hz units.
 (1) 10 foot lift capacity only. Consult factory for additional lifts.



Motorized Trolley Suspension

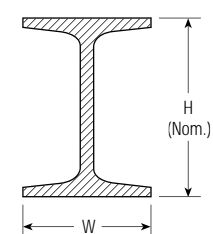
I-Beam Specifications



The following table shows the standard size (H dimension), flange widths (W dimensions) and weights for both American Standard I-beams and Wide Flange H-beams. I-beams designated with an asterisk (*) denote New Series applications which conform to ASTM A6 standards, effective September 1, 1978.

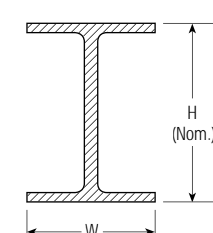
Wide Flange						American Standard					
H in.	W in.	Weight per ft/lbs	H in.	W in.	Weight per ft/lbs	H in.	W in.	Weight per ft/lbs	H in.	W in.	Weight per ft/lbs
6	3.940	8.5	10	10.117	66.0	16*	6.985	36	4	2.663	7.7
6*	4.0	9.0	10*	10.130	68.0	16	7.0	40	4	2.796	9.5
6	4.0	12.0	10	10.170	72.0	16*	6.995	40	5	3.004	10.0
6*	4.0	12.0	10	10.190	77.0	16	7.039	45	5	3.284	14.75
6	4.030	16.0	10*	10.190	77.0	16*	7.035	45	6	3.332	12.5
6*	4.030	16.0	10*	10.625	88.0	16	7.073	50	6	3.565	17.25
6*	5.990	15.0	10	10.275	89.0	16*	7.070	50	7	3.662	15.3
6	5.995	15.5	10	10.340	100.0	16*	7.120	57	7	3.860	20.0
6	6.020	20.0	10*	10.340	100.0	16	8.464	58	8	4.001	18.4
6*	6.018	20.0	10	10.415	112.0	16*	10.235	67	8	4.171	23.0
6	6.080	25.0	10*	10.415	112.0	16*	10.295	77	10	4.661	25.4
6*	6.080	25.0	12	3.968	14.0	16*	10.365	89	10	4.944	35.0
8	3.940	10.0	12*	3.970	14.0	16*	10.425	100	12	5.0	31.8
8*	3.940	10.0	12*	3.990	16.0	16	11.502	88	12	5.078	35.0
8	4.0	13.0	12	4.0	16.5	16	11.5	96	12	5.252	40.8
8*	4.0	13.0	12	4.005	19.0	18	6.0	35	12	5.477	50.0
8	4.015	15.0	12*	4.007	19.0	18*	6.0	35	15	5.501	42.9
8*	4.015	15.0	12	4.030	22.0	18	6.015	40	15	5.640	50.0
8	5.250	17.0	12*	4.030	22.0	18*	6.015	40	18	6.001	54.7
8*	5.250	18.0	12*	6.490	26.0	18*	6.060	46	18	6.251	70.0
8	5.268	20.0	12	6.497	27.0	18	7.477	45	20	6.25	65.4
8*	5.270	21.0	12*	6.520	30.0	18	7.5	50	20	6.385	75.0
8	6.495	24.0	12	6.525	31.0	18*	7.5	50	20	7.060	86.0
8*	6.5	24.0	12*	6.560	35.0	18	7.532	55	20	7.200	96.0
8	6.535	28.0	12	6.565	36.0	18*	7.530	55	24	7.001	79.9
8*	6.535	28.0	12	8.0	40.0	18	7.558	60	24	7.125	90.0
8	7.995	31.0	12*	8.005	40.0	18*	7.555	60	24	7.245	100.0
8*	7.995	31.0	12	8.042	45.0	18*	7.635	71	24	7.875	105.9
8	8.020	35.0	12*	8.045	45.0	18	8.715	64	24	8.050	121.0
8*	8.020	35.0	12	8.077	50.0	18	8.75	70			
8	8.070	40.0	12*	8.080	50.0	18	8.787	77			
8*	8.070	40.0	12	10.0	53.0	18*	11.035	76			
8	8.110	48.0	12*	9.995	53.0	18*	11.090	86			
8*	8.110	48.0	12	10.014	58.0	18*	11.145	97			
8	8.220	58.0	12*	10.010	58.0	18*	11.200	106			
8*	8.220	58.0	14	5.0	22.0	18*	11.265	119			
8	8.280	67.0	14*	5.0	22.0	18	11.75	96			
8*	8.280	67.0	14	5.025	26.0	21	6.5	44			
10	3.950	11.5	14*	5.025	26.0	21*	6.5	44			
10*	3.960	12.0	14	6.730	30.0	21*	6.530	50			
10	4.0	15.0	14*	6.730	30.0	21*	6.555	57			
10*	4.0	15.0	14	6.75	34.0	21	8.215	55			
10	4.010	17.0	14*	6.745	34.0	21	8.240	62			
10*	4.010	17.0	14	6.770	38.0	21*	8.240	62			
10	4.020	19.0	14*	6.770	38.0	21	8.270	68			
10*	4.020	19.0	14	8.0	43.0	21*	8.270	68			
10	5.75	21.0	14*	7.995	43.0	21	8.295	73			
10*	5.75	22.0	14	8.031	48.0	21*	8.295	73			
10	5.762	25.0	14*	8.030	48.0	21*	8.355	83			
10*	5.770	26.0	14	8.062	53.0	21*	8.420	93			
10	5.799	29.0	14*	8.060	53.0	21	8.962	82			
10*	5.810	30.0	14	10.0	61.0	24	7.005	55			
10	7.960	33.0	14*	9.995	61.0	24*	7.005	55			
10*	7.960	33.0	14	10.035	68.0	24*	7.040	62			
10	7.985	39.0	14	10.035	68.0	24	8.961	68			
10*	7.985	39.0	14	10.072	74.0	24*	8.965	68			
10	8.020	45.0	14*	10.070	74.0	24	8.965	76			
10*	8.020	45.0	14	12.0	78.0	24*	8.990	76			
10	10.0	49.0	14	14.5	87.0	24	9.015	84			
10*	10.0	49.0	14*	10.130	82.0	24*	9.020	84			
10	10.030	54.0	16	5.5	26.0	24	9.065	94			
10*	10.030	54.0	16	5.525	31.0	24*	9.065	94			
10	10.080	60.0	16*	5.525	31.0	-	-	-			
10*	10.080	60.0	16	6.692	36.0	-	-	-			

American Standard



Tapered "S" Beam

Wide Flange



Flat "H" Beam

Quantum