



OMAHA STANDARD



OMAHA STANDARD OLYMPIC 144 HD HOIST SPECIFICATIONS

Number of Cylinders		2 - Telescopic
Cylinder Stroke		80.31"
Effective Diameters by Stage	1st	3.875"
	2nd	3.375"
	3rd	2.875"
Cylinder Action		Single Acting
Scissor Height Collapsed		7.5"
Height at Mounting Bracket		7.75"
Hoist Height Extended (Pin to Pin)		111.5"
Pump Options		1538 Gear 1538 Remote Gear HV 8 Piston
Hydraulic Control Valve		3 Way
Reservoir	1538 Gear	40 Qts.
Capacity	8 Piston	40 Qts.
Pump Flow Rated	1538 Gear	9.03 GPM
@ 1000 RPM	8 Piston	12.8GPM
Max. Operating Pressure/Pump		3500 PSI
Relief Valve Setting (Extend Side)		---
Approximate	1538 Gear	41 Sec.
Lift Time @ 1000 RPM	8 Piston	29 Sec
Recommended Chassis		---
C/A or C/T Range		120" - 222" C/T
Recommended Body Length		16' - 24'
Mounting Distances for Dump Angles	35 degrees	179.75
(Rear Hinge to Lift Point)	40 degrees	158.25"
	45 degrees	141.50"
	50 degrees	128.50"
	55 degrees	117.75"
Lifting Capacity Range		23 - 35 Tons
NTEA Class		K/110
Approximate Shipping Weight		1,050 Lbs.

Table 1



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OMAHA STANDARD HOIST LIFT CAPACITY OLYMPIC 144 HD Applications

BODY LENGTH		CAB-TO-AXLE		CAB-TO-TRUNNION		OVER-HANG		APPROXIMATE CAPACITY - BODY AND PAYLOAD AT SPECIFIED DUMP ANGLES									
								NTEA CLASS K - CONVERSION HOIST/NTEA CLASS 110 DUMP BODY HOIST									
								35 °		40 °		45 °		50 °		55 °	
ft.	m.	in.	cm.	in.	cm.	in.	cm.	U.S. ton	metric ton	U.S. ton	metric ton	U.S. ton	metric ton	U.S. ton	metric ton	U.S. ton	metric ton
18	5.49	138	351	126	320	48	122	51.2*	46.5*	51.4	46.6	51.0	46.2	46.1	41.8	42.1	38.2
		144	366	132	335	42	107	45.0*	40.8*	44.7	40.5	45.2	41.0	41.9	38.0	38.3	34.8
		150	381	138	351	36	91	40.1*	36.4*	39.5	35.8	40.6	36.8	38.4	34.9	35.1	31.9
		156	396	144	366	30	76	36.1	32.8	35.4	32.1	36.1	32.7	35.1	31.8	32.4	29.4
		162	411	150	381	24	61	32.9	29.9	32.1	29.1	32.5	29.5	32.0	29.1	30.1	27.3
18.5	5.64	168	427	156	396	18	46	30.2	27.4	29.3	26.6	29.5	26.8	29.5	26.8	28.1	25.5
		162	411	150	381	30	76	34.5	31.3	33.6	30.5	34.2	31.0	33.5	30.4	31.2	28.3
		174	442	162	411	18	46	29.0	26.3	28.1	25.5	28.2	25.6	28.4	25.7	27.2	24.7
		162	411	150	381	48	122	40.1	36.4	39.5	35.8	40.6	36.8	38.4	34.9	35.1*	31.9*
		168	427	156	396	42	107	36.1	32.8	35.4	32.1	36.1	32.7	35.1	31.8	32.4*	29.4*
20	6.1	174	442	162	411	36	91	32.9	29.9	32.1	29.1	32.5	29.5	32.0	29.1	30.1*	27.3*
		168	427	156	396	30	76	30.2	27.4	29.3	26.6	29.5	26.8	29.5	26.8	28.1*	25.5*
		174	442	162	411	24	61	27.9	25.3	27.0	24.5	27.1	24.6	27.3	24.8	26.2*	23.8*
		180	457	180	457	18	46	26.0	23.6	25.0	22.7	25.0	22.7	25.5	23.1	24.4*	22.1*
		174	442	174	442	30	76	29.0	26.3	28.1	25.5	28.2	25.6	28.4	25.7	27.2*	24.7*
20.5	6.25	186	472	186	472	18	46	25.1	22.8	24.1	21.9	24.1	21.8	24.6	22.3	23.5*	21.4*
		174	442	174	442	48	122	32.9	29.9	32.1	29.1	32.5	29.5	32.0	29.1	30.1*	27.3*
		180	457	180	457	42	107	30.2	27.4	29.3	26.6	29.5	26.8	29.5	26.8	28.1*	25.5*
		186	472	186	472	36	91	27.9	25.3	27.0	24.5	27.1	24.6	27.3	24.8	26.2*	23.8*
		192	488	192	488	30	76	26.0	23.6	25.0	22.7	25.0	22.7	25.5	23.1	24.4*	22.1*
22	6.71	198	503	198	503	24	61	24.3	22.0	23.3	21.1	23.2	21.0	23.8	21.6	22.8*	20.7*
		204	518	204	518	18	46	22.8	20.7	21.8	19.8	21.6	19.6	22.3	20.2	21.4*	19.4*
		198	503	198	503	30	76	25.1	22.8	24.1	21.9	24.1	21.8	24.6	22.3	23.5*	21.4*
		210	533	210	533	18	46	22.1	20.0	21.1	19.2	21.0	19.0	21.5	19.5	20.7*	18.8*
		198	503	198	503	48	122	27.9	25.3	27.0	24.5	27.1	24.6	27.3	24.8	26.2*	23.8*
22.5	6.86	204	518	204	518	42	107	26.0	23.6	25.0	22.7	25.0	22.7	25.5	23.1	24.4*	22.1*
		210	533	210	533	36	91	24.3	22.0	23.3	21.1	23.2	21.0	23.8	21.6	22.8*	20.7*
		216	549	216	549	30	76	22.8	20.7	21.8	19.8	21.6	19.6	22.3	20.2	21.4*	19.4*
		222	564	222	564	24	61	21.4	19.4	20.5	18.6	20.3	18.4	20.8	18.9	20.1*	18.3*
		Mounting Distance (in./cm.)								180.00	457.00	158.25	402.00	141.75	360.00	128.50	326.00

*Indicates an application not recommended by factory. (For installations other than shown in above chart - consult factory.)



CAUTION: COMBINED WEIGHT OF TRUCK CHASSIS, HOIST, PLATFORM, SIDES, AND CARGO MUST NOT EXCEED G.V.W.R. OF VEHICLE.

NOTE: All lifting capacity ratings are gross load (body and cargo) and based on proper body length, overhang, mounting distance, and a level load. Assume 3" (7.6 cm) clearance between front of body and back of cab with a rear hinge location 33" (83.8 cm) behind center line of rear axle for single axle trucks and 45" (114.3 cm.) behind center line of trunnion for tandem axle trucks.

Table 2