



Omaha Standard Dump Body and Hoist Reference Guide

Model 5530 DH Specifications

Number of Cylinders	2	
Cylinder Action	Double Acting (Power Up & Power Down)	
Cylinder Bore	5.00 inch	
Cylinder Stroke (Installed)	29.5 inches	
Chrome Plated Rod Diameter	2.50 inch	
Cylinder Volume (Combined)		
Base End	1158.5 in ³ = 5.02 Gallons = 20.1 Quarts	
Rod End	926.8 in ³ = 4.01 Gallons = 16.1 Quarts	
Hoist Height Collapsed	8.5 inches	
Hoist Overall Length	62.75 inches	
Hoist Extended Length (Pin to Pin)	104 inches	
Pump Options	1538 Direct Gear 1538 Remote Gear HV 8 Piston	
Hydraulic Control Valve		
1538 Gear	4 Way (Double Acting)	
HV 8 Piston	4 Way (Double Acting)	
Optional 2nd Valve	4 Way (Double Acting)	
Reservoir Capacity		
1538 Gear	27 Quarts	
HV 8 Piston	27 Quarts	
Pump Flow Rate @ 1000 RPM	Approx. Lift Time @ 1000 RPM	
1538 Gear	9.03 G.P.M.	34 Seconds
HV 8 Piston	12.8 G.P.M.	24 Seconds
Relief Valve Setting		
Extend Side	3250 PSI	
Retract Side	1500 PSI	
Optional 2nd Valve	1500 PSI	
Recommended Chassis	120 inch to 168 inch Cab-to-Axle 132 inch to 174 inch Cab-to-Trunnion 16 feet to 20 feet 6 inch	
Recommended Body Length		
Mounting Distances	(Rear Hinge to Lower Lift Point)	
35° Dump Angle	166.50 inches	
40° Dump Angle	146.75 inches	
45° Dump Angle	131.25 inches	
50° Dump Angle	119.00 inches	
55° Dump Angle	109.00 inches	
Lifting Capacity Range	15 to 36 Tons	
NTEA Class	G/70	
Approx. Shipping Weight	905 lbs.	

Model 5530 DH LIFT CAPACITY

BODY LENGTH		CAB-TO-AXLE		CAB-TO-TRUNNION		OVER-HANG		AT SPECIFIED DUMP ANGLES									
								NTEA CLASS G - CONVERSION HOIST / NTEA CLASS 70 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
16	4.88	120	304.8	108	274	42	107	40.0*	36.3*	35.2	31.9	31.5	28.6	28.5	25.9	26.1	23.7
		126	320	114	290	36	91	36.0	32.7	31.7	28.8	28.3	25.7	25.7	23.3	23.5	21.3
		132	335.3	120	305	30	76	32.8	29.8	28.8	26.1	25.8	23.4	23.3	21.1	21.3	19.3
		138	350.5	126	320	24	61	30.0	27.2	26.4	23.9	23.6	21.4	21.4	19.4	19.6	17.8
		144	365.8	132	335	18	46	27.7	25.1	24.4	22.1	21.8	19.8	19.7	17.9	18.1	16.4
16.5	5.03	150	381	138	351	12	30	25.7	23.3	22.7	20.6	20.2	18.3	18.3	16.6	16.8	15.2
		132	335.3	120	305	36	91	34.3*	31.1*	30.2	27.4	27.0	24.5	24.4	22.1	22.4	20.3
		138	350.5	126	320	30	76	31.3	28.4	27.6	25.0	24.6	22.3	22.3	20.2	20.4	18.5
		144	365.8	132	335	24	61	28.8	26.1	25.4	23.0	22.7	20.6	20.5	18.6	18.8	17.1
		150	381	138	351	18	46	26.7	24.2	23.5	21.3	21.0	19.0	19.0	17.2	17.4	15.8
18	5.49	138	350.5	126	320	48	122	36.0	32.7	31.7	28.8	28.3	25.7	25.7	23.3	23.5	21.3
		144	365.8	132	335	42	107	32.8	29.8	28.8	26.1	25.8	23.4	23.3	21.1	21.3	19.3
		150	381	138	351	36	91	30.0	27.2	26.4	23.9	23.6	21.4	21.4	19.4	19.6	17.8
		156	396.2	144	366	30	76	27.7	25.1	24.4	22.1	21.8	19.8	19.7	17.9	18.1	16.4
		162	411.5	150	381	24	61	25.7	23.3	22.7	20.6	20.2	18.3	18.3	16.6	16.8	15.2
18.5	5.64	168	426.7	156	396	18	46	24.0	21.8	21.2	19.2	18.9	17.1	17.1	15.5	15.7	14.2
		174	442	162	411	12	30	22.5	20.4	19.8	18.0	17.7	16.1	16.0	14.5	14.7	13.3
		156	396.2	144	366	36	91	28.8	26.1	25.4	23.0	22.7	20.6	20.5	18.6	18.8	17.1
		168	426.7	156	396	24	61	24.9	22.6	21.9	19.9	19.5	17.7	17.7	16.1	16.8	15.2
		174	442	168	427	18	46	23.3	21.1	20.5	18.6	18.3	16.6	16.6	15.1	15.1	13.7
20	6.10	162	411.5	150	381	48	122	30.0	27.2	26.4	23.9	23.6	21.4	21.4*	19.4*	19.6*	17.8*
		168	426.7	156	396	42	107	27.7	25.1	24.4	22.1	21.8	19.8	19.7*	17.9*	18.1*	16.4*
		174	442	162	411	36	91	25.7	23.3	22.7	20.6	20.2	18.3	18.3*	16.6*	16.8*	15.2*
				168	427	30	76	24.0	21.8	21.2	19.2	18.9	17.1	17.1*	15.5*	15.7*	14.2*
				174	442	24	61	22.5	20.4	19.8	18.0	17.7	16.1	16.0*	14.5*	14.7*	13.3*
20.5	6.25	174	442	162	411	42	107	26.7	24.2	23.5	21.3	21.0	19.0	19.0*	17.2*	17.4*	15.8*
				168	427	36	91	24.9	22.6	21.9	19.9	19.5	17.7	17.7*	16.1*	16.2*	14.7*
				174	442	30	76	23.3	21.1	20.5	18.6	18.3	16.6	16.6*	15.1*	15.1*	13.7*
Mounting Distance (in./cm.)								166.50	422.91	146.75	372.75	131.25	333.38	119.00	302.26	109.00	276.86

*Indicates that the application is not recommended. Consult the factory for installations not shown in the above chart.

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

CAUTION: The combined weight of the truck chassis, hoist, platform, sides, and cargo must not exceed the G.V.W.R. of the vehicle. The completed vehicle must meet all applicable federal, state, local, and vehicle manufacturer laws and standards.