



OMAHA STANDARD



OMAHA STANDARD OLYMPIC 144 SA HOIST SPECIFICATIONS

NUMBER OF CYLINDERS	2-TELESCOPIC
CYLINDER STROKE	80.31"
STAGE EFFECTIVE DIAMETERS	
1ST	3.875"
2ND	3.375"
3RD	2.875"
CYLINDER ACTION	SINGLE ACTING
SCISSOR HEIGHT COLLASPED	7.5"
HEIGHT AT MOUNTING BRACKET	11.375"
PUMP OPTIONS	1538 DIRECT GEAR
	1538 REMOTE GEAR
	HV 8 PISTON
HYDRAULIC CONTROL VALVE	3 WAY
RESERVOIR CAPACITY	
1538 GEAR	40 QTS.
HV 8 PISTON	40 QTS.
PUMP FLOW RATE @ 1000 RPM	
1538 GEAR	9.03 GPM
HV 8 PISTON	12.8 GPM
RELIEF VALVE SETTING (EXTEND SIDE)	3250 PSI
APPROX. LIFT TIME @ 1000 RPM	
1538 GEAR	41 SEC.
HV 8 PISTON	297 SEC.
RECOMMENDED CHASSIS RANGE	126" - 222" C/T
RECOMMENDED BODY LENGTH	18' - 24'
MOUNTING DISTANCES (REAR HINGE TO LOWER LIFT POINT)	
35 DEGREES	181.00"
40 DEGREES	159.50"
45 DEGREES	142.75"
50 DEGREES	129.25"
55 DEGREES	118.50"
LIFTING CAPACITY RANGE	20 - 37 TONS
NTEA CLASS	J/100
APPROX. SHIPPING WEIGHT	1,050 LBS.

Table 1



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OMAHA STANDARD HOIST LIFT CAPACITY OLYMPIC 144 SA Applications

BODY LENGTH		CAB-TO-AXLE		CAB-TO-TRUNNION		OVER-HANG		APPROXIMATE CAPACITY - BODY AND PAYLOAD AT SPECIFIED DUMP ANGLES NTEA CLASS J - CONVERSION HOIST/NTEA CLASS 100 DUMP BODY HOIST									
								35 °		40 °		45 °		50 °		55 °	
								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	56.5*	51.2*	50.3	45.6	44.9	40.8	40.6	36.8	37.1	33.7
		144	366	132	335	42	107	48.9*	44.3*	45.7	41.5	40.8	37.1	36.9	33.5	33.8	30.6
		150	381	138	351	36	91	42.6*	38.6*	41.7	37.8	37.4	34.0	33.8	30.7	30.9	28.1
		156	396	144	366	30	76	37.7*	34.2*	37.6	34.1	34.5	31.4	31.3	28.4	28.6	25.9
		162	411	150	381	24	61	33.9	30.8	34.2	31.0	32.1	29.1	29.0	26.3	26.5	24.1
		168	427	156	396	18	46	30.7	27.9	30.8	28.0	29.6	26.9	27.1	24.5	24.8	22.5
18.5	5.64	162	411	150	381	30	76	35.7	32.4	35.8	32.5	33.3	30.2	30.1	27.3	27.5	25.0
		174	442	162	411	18	46	29.4	26.7	29.4	26.7	28.4	25.8	26.2	23.8	24.0	21.7
20	6.1	162	411	150	381	48	122	42.6	38.6	41.7	37.8	37.4	34.0	33.8	30.7	30.9*	28.1*
		168	427	156	396	42	107	37.7	34.2	37.6	34.1	34.5	31.4	31.3	28.4	28.6*	25.9*
		174	442	162	411	36	91	33.9	30.8	34.2	31.0	32.1	29.1	29.0	26.3	26.5*	24.1*
				168	427	30	76	30.7	27.9	30.8	28.0	29.6	26.9	27.1	24.5	24.8*	22.5*
				174	442	24	61	28.1	25.5	28.0	25.4	27.3	24.8	25.4	23.0	23.2*	21.1*
				180	457	18	46	25.9	23.5	25.7	23.3	25.3	23.0	23.9	21.7	21.8*	19.8*
20.5	6.25			174	442	30	76	29.4	26.7	29.4	26.7	28.4	25.8	26.2	23.8	24.0*	21.7*
				186	472	18	46	25.0	22.7	24.7	22.4	24.4	22.2	23.2	21.0	21.2*	19.3*
22	6.71			174	442	48	122	33.9	30.8	34.2	31.0	32.1	29.1	29.0	26.3	26.5*	24.1*
				180	457	42	107	30.7	27.9	30.8	28.0	29.6	26.9	27.1	24.5	24.8*	22.5*
				186	472	36	91	28.1	25.5	28.0	25.4	27.3	24.8	25.4	23.0	23.2*	21.1*
				192	488	30	76	25.9	23.5	25.7	23.3	25.3	23.0	23.9	21.7	21.8*	19.8*
				198	503	24	61	24.1	21.8	23.7	21.5	23.6	21.4	22.5	20.4	20.6*	18.7*
				204	518	18	46	22.4	20.4	22.0	20.0	22.1	20.1	21.0	19.1	19.5*	17.7*
22.5	6.86			198	503	30	76	25.0	22.7	24.7	22.4	24.4	22.2	23.2	21.0	21.2*	19.3*
				210	533	18	46	21.7	19.7	21.3	19.3	21.4	19.4	20.4	18.5	19.0*	17.3*
24	7.32			198	503	48	122	28.1	25.5	28.0	25.4	27.3	24.8	25.4	23.0	23.2*	21.1*
				204	518	42	107	25.9	23.5	25.7	23.3	25.3	23.0	23.9	21.7	21.8*	19.8*
				210	533	36	91	24.1	21.8	23.7	21.5	23.6	21.4	22.5	20.4	20.6*	18.7*
				216	549	30	76	22.4	20.4	22.0	20.0	22.1	20.1	21.0	19.1	19.5*	17.7*
				222	564	24	61	21.0	19.1	20.5	18.6	20.8	18.9	19.7	17.9	18.6*	16.8*
Mounting Distance (in./cm.)								181.00	460.00	159.50	405.00	142.75	363.00	129.25	328.00	118.50	301.00

*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