



OMAHA STANDARD



OLYMPIC 110 DA HOIST SPECIFICATIONS

NUMBER OF CYLINDERS	2-TELESCOPIC	
CYLINDER STROKE	60.09"	
STAGE EFFECTIVE DIAMETERS		
	1ST	3.125"
	2ND	2.25"
CYLINDER ACTION	DOUBLE ACTING	
SCISSOR HEIGHT COLLASPED	6.75"	
HEIGHT AT MOUNTING BRACKET	6.75"	
PUMP OPTIONS	1538 DIRECT GEAR	
	1538 REMOTE GEAR	
	8 PISTON	
HYDRAULIC CONTROL VALVE	4 WAY	
RESERVOIR CAPACITY		
	1538 GEAR	27 QTS.
	8 PISTON	21 QTS.
PUMP FLOW RATE @ 1000 RPM		
	1538 GEAR	9.03 GPM
	8 PISTON	8.66 GPM
RELIEF VALVE SETTING (EXTEND SIDE)	3500 PSI	
APPROX. LIFT TIME @ 1000 RPM		
	1538 GEAR	20 SEC.
	8 PISTON	21 SEC.
RECOMMENDED CHASSIS RANGE		
	C/A	120" - 150"
	C/T	102" - 144"
RECOMMENDED BODY LENGTH	13'-6" - 19'	
MOUNTING DISTANCES (REAR HINGE TO LOWER LIFT POINT)		
	35 DEGREES	139.50"
	40 DEGREES	122.75"
	45 DEGREES	110.00"
	50 DEGREES	99.75"
	55 DEGREES	91.25"
LIFTING CAPACITY RANGE	12 - 25 TONS	
NTEA CLASS	F/60	
APPROX. SHIPPING WEIGHT	750 LBS.	

Table 1



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OMAHA STANDARD HOIST LIFT CAPACITY OLYMPIC 110 DA Applications

BODY LENGTH		CAB-TO-AXLE		CAB-TO-TRUNNION		OVER-HANG		APPROXIMATE CAPACITY - BODY AND PAYLOAD AT SPECIFIED DUMP ANGLES									
								NTEA CLASS F - CONVERSION HOIST/NTEA CLASS 60 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
14	4.27	102	259			36	91	35.5*	32.2*	31.2	28.3	27.8	25.3	25.2	22.9	23.0	20.9
		108	274			30	76	31.5*	28.6*	27.7	25.1	24.8	22.5	22.4	20.3	20.4	18.5
		114	290			24	61	27.8*	25.2*	24.9	22.6	22.3	20.2	20.2	18.3	18.4	16.7
		120	305	108	274	18	46	24.2	21.9	22.7	20.6	20.3	18.4	18.3	16.6	16.7	15.2
		126	320	114	290	12	30	21.1	19.1	20.4	18.5	18.6	16.8	16.8	15.2	15.3	13.9
		132	335	120	305	6	15	18.7	16.9	18.5	16.8	17.1	15.6	15.5	14.1	14.1	12.8
14.5	4.42	108	274			36	91	33.4*	30.3*	29.3	26.6	26.2	23.8	23.7	21.5	21.6	19.6
		126	320	114	290	18	46	22.5	20.4	21.5	19.5	19.4	17.6	17.5	15.9	16.0	14.5
15	4.57	102	259			48	122	40.6*	36.8*	35.6	32.3	31.8	28.9	28.8	26.1	26.3	23.8
		108	274			42	107	35.5*	32.2*	31.2	28.3	27.8	25.3	25.2	22.9	23.0	20.9
		114	290			36	91	31.5*	28.6*	27.7	25.1	24.8	22.5	22.4	20.3	20.4	18.5
		120	305	108	274	30	76	27.8	25.2	24.9	22.6	22.3	20.2	20.2	18.3	18.4	16.7
		126	320	114	290	24	61	24.2	21.9	22.7	20.6	20.3	18.4	18.3	16.6	16.7	15.2
		132	335	120	305	18	46	21.1	19.1	20.4	18.5	18.6	16.8	16.8	15.2	15.3	13.9
		138	351	126	320	12	30	18.7	16.9	18.5	16.8	17.1	15.6	15.5	14.1	14.1	12.8
		144	366	132	335	6	15	16.8	15.2	16.9	15.4	15.7	14.3	14.4	13.1	13.1	11.9
16	4.88	114	290			48	122	35.5*	32.2*	31.2	28.3	27.8	25.3	25.2	22.9	23.0	20.9
		120	305	108	274	42	107	31.5	28.6	27.7	25.1	24.8	22.5	22.4	20.3	20.4	18.5
		126	320	114	290	36	91	27.8	25.2	24.9	22.6	22.3	20.2	20.2	18.3	18.4	16.7
		132	335	120	305	30	76	24.2	21.9	22.7	20.6	20.3	18.4	18.3	16.6	16.7	15.2
		138	351	126	320	24	61	21.1	19.1	20.4	18.5	18.6	16.8	16.8	15.2	15.3	13.9
		144	366	132	335	18	46	18.7	16.9	18.5	16.8	17.1*	15.6*	15.5*	14.1*	14.1*	12.8*
		150	381	138	351	12	30	16.8	15.2	16.9	15.4	15.7*	14.3*	14.4*	13.1*	13.1*	11.9*
16.5	5.03	132	335	120	305	36	91	26.1	23.7	23.7	21.5	21.2*	19.3*	19.2*	17.4*	17.5*	15.9*
		150	381	138	351	18	46	17.7	16.0	17.7	16.1	16.4*	14.9*	14.9*	13.5*	13.6*	12.4*
18	5.49	138	351	126	320	48	122	27.8	25.2	24.9	22.6	22.3*	20.2*	20.2*	18.3*	18.4*	16.7*
		144	366	132	335	42	107	24.2	21.9	22.7	20.6	20.3*	18.4*	18.3*	16.6*	16.7*	15.2*
		150	381	138	351	36	91	21.1	19.1	20.4	18.5	18.6*	16.8*	16.8*	15.2*	15.3*	13.9*
		156	396	144	366	30	76	18.7	16.9	18.5	16.8	17.7*	16.1*	14.4*	13.0*	13.1*	11.9*
18.5	5.64	150	381	138	351	42	107	22.5	20.4	21.5	19.5	19.4*	17.6*	17.5*	15.9*	16.0*	14.5*
Mounting Distance (in./cm.)								139.50	354.00	122.75	312.00	110.00	279.00	99.75	253.00	91.25	232.00

*Indicates application is 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