



# OMAHA STANDARD



## OMAHA STANDARD OLYMPIC 180 SA HOIST SPECIFICATIONS

NUMBER OF CYLINDERS	2-TELESCOPIC
CYLINDER STROKE	101.90"
STAGE EFFECTIVE DIAMETERS	
1ST	3.875"
2ND	3.375"
3RD	2.875"
CYLINDER ACTION	SINGLE ACTING
SCISSOR HEIGHT COLLAPSED	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	52 SEC.
HV 8 PISTON	37 SEC.
RECOMMENDED CHASSIS RANGE	144" - 246" C/T
RECOMMENDED BODY LENGTH	20' - 28'
MOUNTING DISTANCES (REAR HINGE TO LOWER LIFT POINT)	
35 DEGREES	225"
40 DEGREES	198"
45 DEGREES	177.25"
50 DEGREES	160.5"
55 DEGREES	147"
LIFTING CAPACITY RANGE	19 - 52 TONS
NTEA CLASS	K/110
APPROX. SHIPPING WEIGHT	1,132 LBS.

Table 1



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## OMAHA STANDARD HOIST LIFT CAPACITY OLYMPIC 180 SA 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 °	
								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
20	6.10			150	381	48	122	59.6*	54.1*	52.4*	47.5*	46.8	42.5	42.3	38.4	38.7	35.2
				156	396	42	107	54.5*	49.5*	48.3*	43.9*	43.2	39.2	39.0	35.4	35.8	32.5
				162	411	36	91	49.0*	44.4*	44.9*	40.7*	40.1	36.4	36.3	32.9	33.2	30.1
				168	427	30	76	44.4*	40.3*	41.9*	38.0*	37.4	34.0	33.8	30.7	31.0	28.1
				174	442	24	61	40.7*	36.9*	39.3	35.6	35.1	31.8	31.7	28.8	29.1	26.4
20.5	6.25			180	457	18	46	37.5*	34.0*	37.0	33.5	33.0	30.0	29.9	27.1	27.4	24.8
				174	442	30	76	42.5*	38.5*	40.5	36.8	36.2	32.9	32.7	29.7	30.0	27.2
				186	472	18	46	36.1*	32.7*	35.6	32.3	32.1	29.1	29.0	26.3	25.6	23.2
22	6.71			174	442	48	122	49.0*	44.4*	44.9	40.7	40.1	36.4	36.3	32.9	33.2	30.1
				180	457	42	107	44.4*	40.3*	41.9	38.0	37.4	34.0	33.8	30.7	31.0	28.1
				186	472	36	91	40.7*	36.9*	39.3	35.6	35.1	31.8	31.7	28.8	29.1	26.4
				192	488	30	76	37.5	34.0	37.0	33.5	33.0	30.0	29.9	27.1	27.4	24.8
				198	503	24	61	34.8	31.6	34.3	31.1	31.2	28.3	28.2	25.6	25.8	23.4
22.5	6.86			204	518	18	46	32.4	29.4	31.8	28.9	29.6	26.8	26.7	24.2	24.5	22.2
				198	503	30	76	36.1	32.7	35.6	32.3	32.1	29.1	29.0	26.3	25.6	23.2
				210	533	18	46	31.4	28.5	30.7	27.9	28.8	26.1	26.0	23.6	23.8	21.6
24	7.32			198	503	48	122	40.7	36.9	39.3	35.6	35.1	31.8	31.7	28.8	29.1	26.4
				204	518	42	107	37.5	34.0	37.0	33.5	33.0	30.0	29.9	27.1	27.4	24.8
				210	533	36	91	34.8	31.6	34.3	31.1	31.2	28.3	28.2	25.6	25.8	23.4
				216	549	30	76	32.4	29.4	31.8	28.9	29.6	26.8	26.7	24.2	24.5	22.2
				222	564	24	61	30.4	27.6	29.7	26.9	28.1	25.5	25.4	23.0	23.2	21.1
24.5	7.47			228	579	18	46	28.6	25.9	27.8	25.3	26.7	24.3	24.2	21.9	22.1	20.1
				222	564	30	76	31.4	28.5	30.7	27.9	28.8	26.1	26.0	23.6	23.8	21.6
				234	594	18	46	27.7	25.2	27.0	24.5	26.1	23.7	23.6	21.4	21.6	19.6
26	7.92			222	564	48	122	34.8	31.6	34.3	31.1	31.2	28.3	28.2	25.6	25.8	23.4
				228	579	42	107	32.4	29.4	31.8	28.9	29.6	26.8	26.7	24.2	24.5	22.2
				234	594	36	91	30.4	27.6	29.7	26.9	28.1	25.5	25.4	23.0	23.2	21.1
				240	610	30	76	28.6	25.9	27.8	25.3	26.7	24.3	24.2	21.9	22.1	20.1
				246	625	24	61	27.0	24.5	26.2	23.8	25.5	23.2	23.1	20.9	21.1	19.2
Mounting Distance (in./cm.)								225.00	572.00	198.00	503.00	177.25	450.00	160.50	408.00	147.25	374.00

\*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