



OMAHA STANDARD



520 DH HOIST SPECIFICATIONS

NUMBER OF CYLINDERS	1
CYLINDER ACTION	DOUBLE ACTING
CYLINDER BORE	5"
CYLINDER STROKE	19.0"
CHROME PLATED ROD DIAMETER	2.0"
HOIST HEIGHT COLLASPED	6.75"
HOIST HEIGHT EXTENDED (PIN TO PIN)	68.5"
PUMP OPTIONS	919 DIRECT GEAR
	SA ELECTRIC
	DA ELECTRIC
	4 PISTON
HYDRAULIC CONTROL VALVE	
919 GEAR	4 WAY w/ RECYCLE
4 PISTON	4 WAY w/ CYL. RELIEF
SA ELECTRIC	3 WAY
DA ELECTRIC	4 WAY
RESERVOIR CAPACITY	
919 GEAR	9 QTS.
4 PISTON	15 QTS.
ELECTRIC	12 QTS.
PUMP FLOW RATE @ 1000 RPM	
919 GEAR	4.50 GPM
4 PISTON	3.31 GPM
ELECTRIC (EMPTY)	2.30 GPM
ELECTRIC (LOADED)	1.0 GPM
RELIEF VALVE SETTING	
EXTEND SIDE	3250 PSI
RETRACT SIDE	1500 PSI
APPROX. LIFT TIME @ 1000 RPM	
919 GEAR	22 SEC.
4 PISTON	30 SEC.
ELECTRIC (EMPTY)	43 SEC.
ELECTRIC (LOADED)	98 SEC.
RECOMMENDED CHASSIS RANGE	60" - 138" C/A
RECOMMENDED BODY LENGTH	8' - 16'
MOUNTING DISTANCES (REAR HINGE TO LOWER LIFT POINT)	
35°	109.25"
40°	96.25"
45°	86.25"
50°	78.25"
55°	71.75"
LIFTING CAPACITY RANGE	7.6 - 17.5 TONS
NTEA CLASS	D/40
APPROX. SHIPPING WEIGHT	575 LBS.

Table 1



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520 DH HOIST LIFT CAPACITY

BODY LENGTH		CAB-TO-AXLE		AXLE-TO-REAR HINGE		OVER-HANG		APPROXIMATE CAPACITY - BODY AND PAYLOAD AT SPECIFIED DUMP ANGLES									
								NTEA CLASS D - CONVERSION HOIST/NTEA CLASS 40 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
8	2	60	152	33	84	6	15	20.0	18.1	17.5	15.9	15.7	14.2	14.2	12.9	13.0	11.8
9	3	60	152	33	84	18	46	23.3	21.1	20.5	18.6	18.3	16.6	16.6	15.1	15.2	13.8
		60	152	45	114	6	15	17.5	15.8	15.4	13.9	13.7	12.5	12.4	11.3	11.4	10.3
10	3	60	152	33	84	30	76	27.9	25.3	24.6	22.3	22.0	20.0	19.9	18.0	18.2	16.5
		84	213	33	84	6	15	14.1	12.8	13.6	12.3	12.2	11.1	11.1	10.1	10.1	9.2
11	3	84	213	45	114	6	15	14.0	12.7	12.3	11.1	11.0	10.0	10.0	9.0	9.1	8.3
12	4	84	213	33	84	30	76	20.0	18.1	17.5	15.9	15.7	14.2	14.2	12.9	13.0	11.8
		102	259	33	84	12	30	14.0	12.7	12.3	11.2	11.0	10.0	10.0	9.1	9.1	8.3
		108	274	33	84	6	15	12.7	11.5	11.2	10.2	10.0	9.1	9.0	8.2	8.3	7.5
14	4	102	259	33	84	36	91	17.5	15.9	15.4	14.0	13.7	12.4	12.4	11.2	11.4	10.3
		108	274	33	84	30	76	15.5	14.1	13.6	12.3	12.2	11.1	11.1	10.1	10.1	9.2
		114	290	33	84	24	61	14.0	12.7	12.3	11.2	11.0	10.0	10.0	9.1	9.1	8.3
		120	305	45	114	6	15	10.7	9.7	9.4	8.6	8.5	7.7	7.7	6.9	7.0	6.4
		126	320	33	84	12	30	11.6	10.5	10.2	9.3	9.2	8.3	8.3	7.5	7.6	6.9
		132	335	33	84	6	15	10.7	9.7	9.4	8.5	8.5	7.7	7.7	7.0	7.0	6.3
15	5	102	259	33	84	48	122	20.0	18.1	17.5	15.9	15.7	14.2	14.2	12.9	13.0	11.8
		108	274	33	84	42	107	17.5	15.9	15.4	14.0	13.7	12.4	12.4	11.2	11.4	10.3
		114	290	33	84	36	91	15.5	14.1	13.6	12.3	12.2	11.1	11.1	10.1	10.1	9.2
		120	305	33	84	30	76	14.0	12.7	12.3	11.2	11.0	10.0	10.0	9.1	9.1	8.3
		120	305	45	114	6	15	10.7	9.7	10.2	9.3	9.2	8.3	8.3	7.5	7.6	6.9
		126	320	33	84	24	61	12.7	11.5	11.2	10.2	10.0	9.1	9.0	8.2	8.3	7.5
		132	335	33	84	18	46	11.6	10.5	10.2	9.3	9.2	8.3	8.3	7.5	7.6	6.9
		138	351	33	84	12	30	10.7	9.7	9.4	8.5	8.5	7.7	7.7	7.0	7.0	6.3
		144	366	33	84	6	15	10.0	9.1	8.8	8.0	7.8	7.1	7.1	6.4	6.5	5.9
16	5	114	290	33	84	48	122	17.5	15.9	15.4	14.0	13.7	12.4	12.4	11.2	11.4	10.3
		120	305	33	84	42	107	15.5	14.1	13.6	12.3	12.2	11.1	11.1	10.1	10.1	9.2
		120	305	45	114	30	76	12.7	11.5	11.2	10.1	10.0	9.1	9.0	8.2	8.2	7.5
		126	320	33	84	36	91	14.0	12.7	12.3	11.2	11.0	10.0	10.0	9.1	9.1	8.3
		132	335	33	84	30	76	12.7	11.5	11.2	10.2	10.0	9.1	9.0	8.2	8.3	7.5
		138	351	33	84	24	61	11.6	10.5	10.2	9.3	9.2	8.3	8.3	7.5	7.6	6.9
		144	366	33	84	18	46	10.7	9.7	9.4	8.5	8.5	7.7	7.7	7.0	7.0	6.3
		150	381	33	84	12	30	10.0	9.1	8.8	8.0	7.8	7.1	7.1	6.4	6.5	5.9
		156	396	33	84	6	15	9.3	8.4	8.2	7.4	7.3	6.6	6.6	6.0	6.1	5.5
Mounting Distance (in./cm.)								109.25	277	96.25	244	86.25	219	78.25	199	71.75	182

Shaded area indicates 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: Lifting capacity ratings are gross load (body & cargo) based on body length, overhang, mounting distance, and level load. Assume 3" clearance between front of body and back of cab with a rear hinge location 33" or 45" behind center line of rear axle.

Table 2