



OMAHA STANDARD



625/630 DH HOIST SPECIFICATIONS

	625 DH	630 DH
NUMBER OF CYLINDERS	1	1
CYLINDER ACTION	DOUBLE ACTING	DOUBLE ACTING
CYLINDER BORE	6"	6"
CYLINDER STROKE	24.25"	28.75"
CHROME PLATED ROD DIAMETER	2.5"	2.5"
HOIST HEIGHT COLLAPSED	7.438"	7.75"
HOIST HGT EXTENDED (PIN TO PIN)	102"	102"
PUMP OPTIONS	1538 DIRECT GEAR	1538 DIRECT GEAR
	1538 REMOTE GEAR	1538 REMOTE GEAR
	8 PISTON	8 PISTON
HYDRAULIC CONTROL VALVE		
	1538 GEAR	4 WAY w/RELIEF
	8 PISTON	4 WAY w/RELIEF
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	3250 PSI
	RETRACT SIDE	1500 PSI
APPROX. LIFT TIME @ 1000 RPM		
	1538 GEAR	20 SEC.
	8 PISTON	24 SEC.
RECOMMENDED CHASSIS RANGE		
	C/A	108" - 144"
	C/T	108" - 138"
RECOMMENDED BODY LENGTH		
		12' - 18'
MOUNTING DISTANCES (REAR HINGE TO LOWER LIFT POINT)		
	35°	142.25"
	40°	125.25"
	45°	112.00"
	50°	101.50"
	55°	93.25"
LIFTING CAPACITY RANGE		
		10 - 23.8 TONS
NTEA CLASS		
		E/50
APPROX. SHIPPING WEIGHT		
		630 LBS.
		650 LBS.

Table 1



OMAHA STANDARD



630 DH HOIST LIFT CAPACITY

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
12	3.66	108	274			6	15	23.0*	20.8*	20.2*	18.3*	18.1	16.4	16.4	14.9	15.0	13.6
14	4.27	102	259			36	91	31.6*	28.7*	27.8*	25.2*	24.8*	22.5*	22.5	20.4	20.6	18.7
		108	274			30	76	28.1*	25.5*	24.7*	22.4*	22.1	20.0	20.0	18.2	18.3	16.6
		114	290			24	61	25.3*	22.9*	22.2*	20.2*	19.9	18.0	18.0	16.3	16.5	14.9
		120	305	108	274	18	46	23.0*	20.8*	20.2*	18.3*	18.1	16.4	16.4	14.9	15.0	13.6
		126	320	114	290	12	30	21.1*	19.1*	18.5	16.8	16.6	15.0	15.0	13.6	13.7	12.4
		132	335	120	305	6	15	19.4*	17.6*	17.1	15.5	15.3	13.9	13.9	12.6	12.7	11.5
15	4.42	102	259			48	122	36.1*	32.8*	31.7*	28.8*	28.4*	25.7*	25.7	23.3	23.5	21.3
		108	274			42	107	31.6*	28.7*	27.8*	25.2*	24.8	22.5	22.5	20.4	20.6	18.7
		114	290			36	91	28.1*	25.5*	24.7*	22.4*	22.1	20.0	20.0	18.2	18.3	16.6
		120	305	108	274	30	76	25.3*	22.9*	22.2*	20.2*	19.9	18.0	18.0	16.3	16.5	14.9
		126	320	114	290	24	61	23.0*	20.8*	20.2	18.3	18.1	16.4	16.4	14.9	15.0	13.6
		132	335	120	305	18	46	21.1*	19.1*	18.5	16.8	16.6	15.0	15.0	13.6	13.7	12.4
		138	351	126	320	12	30	19.4*	17.6*	17.1	15.5	15.3	13.9	13.9	12.6	12.7	11.5
		144	366	132	335	6	15	18.1	16.4	15.9	14.4	14.2	12.9	12.9	11.7	11.8	10.7
16	4.88	114	290			48	122	31.6*	28.7*	27.8*	25.2*	24.8	22.5	22.5	20.4	20.6	18.7
		120	305	108	274	42	107	28.1*	25.5*	24.7*	22.4*	22.1	20.0	20.0	18.2	18.3	16.6
		126	320	114	290	36	91	25.3*	22.9*	22.2	20.2	19.9	18.0	18.0	16.3	16.5	14.9
		132	335	120	305	30	76	23.0*	20.8*	20.2	18.3	18.1	16.4	16.4	14.9	15.0	13.6
		138	351	126	320	24	61	21.1*	19.1*	18.5	16.8	16.6	15.0	15.0	13.6	13.7	12.4
		144	366	132	335	18	46	19.4	17.6	17.1	15.5	15.3	13.9	13.9	12.6	12.7	11.5
		150	381	138	351	12	30	18.1	16.4	15.9	14.4	14.2	12.9	12.9	11.7	11.8	10.7
18	5.49	132	335	120	305	54	137	28.1*	25.5*	24.7	22.4	22.1	20.0	20.0	18.2	18.3	16.6
		138	351	126	320	48	122	25.3*	22.9*	22.2	20.2	19.9	18.0	18.0	16.3	16.5	14.9
		144	366	132	335	42	107	23.0	20.8	20.2	18.3	18.1	16.4	16.4	14.9	15.0	13.6
		150	381	138	351	36	91	21.1	19.1	18.5	16.8	16.6	15.0	15.0	13.6	13.7	12.4
		156	396	144	366	30	76	19.4	17.6	17.1	15.5	15.3	13.9	13.9	12.6	12.7	11.5
		162	411	150	381	24	61	18.1	16.4	15.9	14.4	14.2	12.9	12.9	11.7	11.8	10.7
		168	427	156	396	18	46	16.8	15.3	14.8	13.4	13.2	12.0	12.0	10.9	11.0	10.0
Mounting Distance (in./cm.)								165.00	419.00	145.25	369.00	130.00	330.00	118.00	300.00	108.00	274.00

*Indicates application not recommended by factory. (For installations other than shown in above chart - consult factory.)

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 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.

⚠ CAUTION: COMBINED WEIGHT OF TRUCK CHASSIS, HOIST, PLATFORM, SIDES, AND CARGO MUST NOT EXCEED G.V.W.R. OF VEHICLE.

Table 3



OMAHA STANDARD



625 DH HOIST LIFT CAPACITY

BODY LENGTH		CAB-TO-AXLE		CAB-TO-TRUNNION		OVER-HANG		APPROXIMATE CAPACITY - BODY AND PAYLOAD AT SPECIFIED DUMP ANGLES NTEA CLASS E - CONVERSION HOIST/NTEA CLASS 50 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
10	3.05	84	213			6	15	23.8*	21.6*	21.0*	19.0*	18.7*	17.0*	16.9	15.4	15.5	14.1
12	3.66	108	274			6	15	19.5*	17.7*	17.2	15.6	15.3	13.9	13.9	12.6	12.7	11.5
12.5	3.81	108	274			12	30	20.4*	18.5*	18.0	16.3	16.0	14.6	14.5	13.2	13.3	12.1
14	4.27	102	259			36	91	26.8*	24.3*	23.6	21.4	21.1	19.1	19.1	17.3	17.5	15.9
		108	274			30	76	23.8*	21.6*	21.0	19.0	18.7	17.0	16.9	15.4	15.5	14.1
		114	290			24	61	21.5*	19.5*	18.9	17.1	16.8	15.3	15.2	13.8	14.0	12.7
		120	305			18	46	19.5	17.7	17.2	15.6	15.3	13.9	13.9	12.6	12.7	11.5
		126	320			12	30	17.9	16.2	15.7	14.3	14.0	12.7	12.7	11.5	11.7	10.6
		132	335			6	15	16.5	15.0	14.5	13.2	13.0	11.8	11.7	10.6	10.8	9.8
14.5	4.42	120	305			24	61	20.4	18.5	18.0	16.3	16.0	14.6	14.5	13.2	13.3	12.1
		132	335			12	30	17.2	15.6	15.1	13.7	13.5	12.2	12.2	11.1	11.2	10.2
15	4.57	114	290			36	91	23.8*	21.6*	21.0	19.0	18.7	17.0	16.9	15.4	15.5	14.1
		120	305			30	76	21.5	19.5	18.9	17.1	16.8	15.3	15.2	13.8	14.0	12.7
		126	320			24	61	19.5	17.7	17.2	15.3	15.3	13.7	13.9	12.6	12.7	11.5
		132	335			18	46	17.9	16.2	15.7	14.3	14.0	12.7	12.7	11.5	11.7	10.6
		138	351			12	30	16.5	15.0	14.5	13.2	13.0	11.8	11.7	10.6	10.8	9.8
		144	366			6	15	15.3	13.9	13.5	12.2	12.0	10.9	10.9	9.9	10.0	9.1
16	4.88	120	305	108	274	42	107	23.8	21.6	21.0	19.0	18.7	17.0	16.9	15.4	15.5	14.1
		126	320	114	290	36	91	21.5	19.5	18.9	17.1	16.8	15.3	15.2	13.8	14.0	12.7
		132	335	120	305	30	76	19.5	17.7	17.2	15.6	15.3	13.9	13.9	12.6	12.7	11.5
		138	351	126	320	24	61	17.9	16.2	15.7	14.3	14.0	12.7	12.7	11.5	11.7	10.6
		144	366	132	335	18	46	16.5	15.0	14.5	13.2	13.0	11.8	11.7	10.6	10.8	9.8
16.5	5.03	138	351	126	320	30	76	18.7	16.9	16.4	14.9	14.7	13.3	13.3	12.0	12.2	11.0
		150	381	138	351	18	46	15.9	14.4	14.0	12.7	12.5	11.3	11.3	10.2	10.4	9.4
18	5.49	132	335	120	305	54	137	23.8	21.6	21.0	19.0	18.7	17.0	16.9	15.4	15.5	14.1
		138	351	126	320	48	122	21.5	19.5	18.9	17.1	16.8	15.3	15.2	13.8	14.0	12.7
		144	366	132	335	42	107	19.5	17.7	17.2	15.6	15.3	13.9	13.9	12.6	12.7	11.5
		150	381	138	351	36	91	17.9	16.2	15.7	14.3	14.0	12.7	12.7	11.5	11.7	10.6
Mounting Distance (in./cm.)								142.25	361	125.25	318	112.00	284	101.50	258	93.25	237

*Indicates application not recommended by factory. (For installations other than shown in above chart - consult factory.)

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 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.

⚠ CAUTION: COMBINED WEIGHT OF TRUCK CHASSIS, HOIST, PLATFORM, SIDES, AND CARGO MUST NOT EXCEED G.V.W.R. OF VEHICLE.

Table 2