

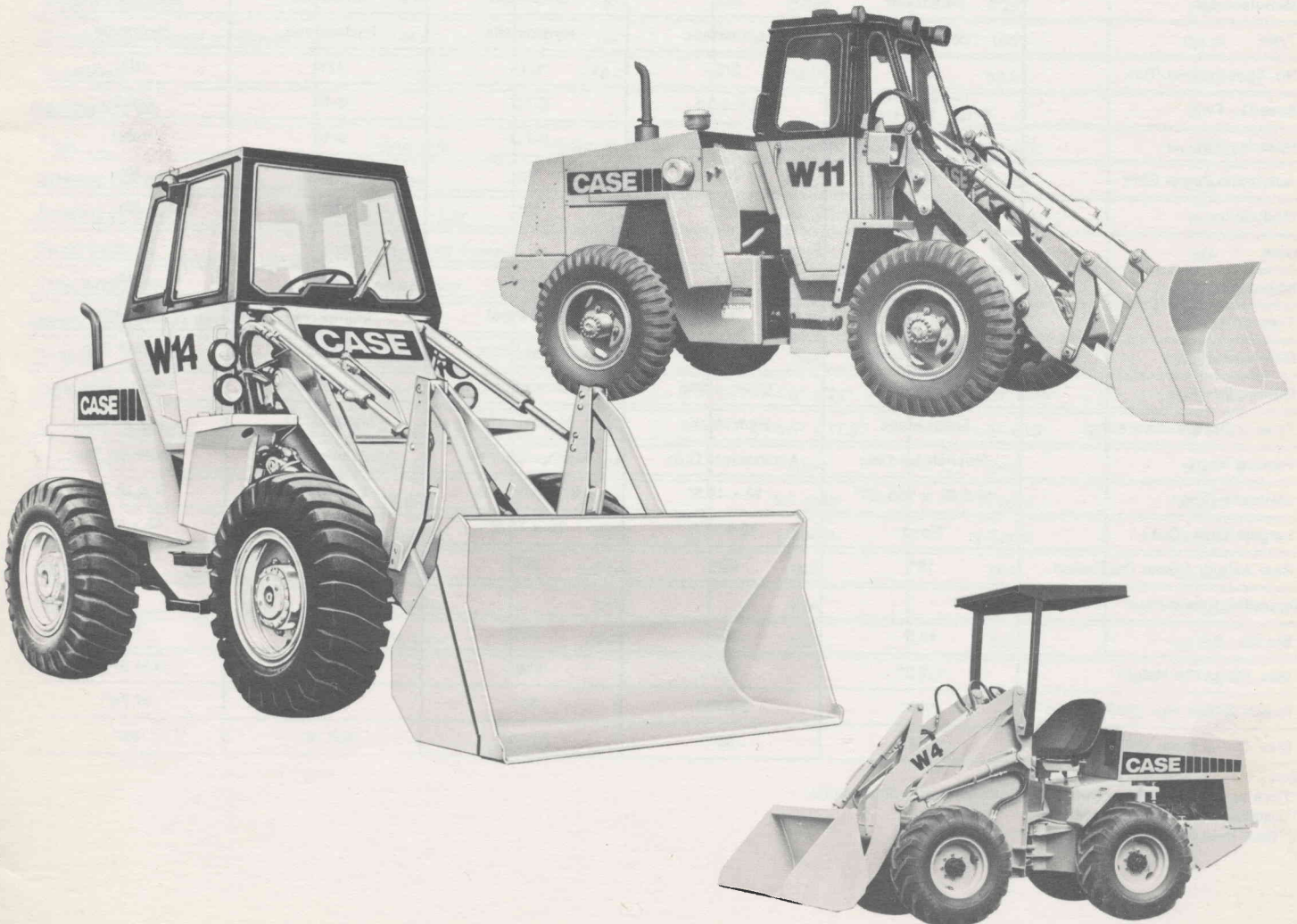


Competitive Information Wheel Loaders

CONFIDENTIAL — FOR INTERNAL USE ONLY

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SPECIFICATIONS



Based on Competitive Information known at time of printing.

W4 AND COMPETITION (U.S.A.)

Manufacturer & Model	Case W4	Raygo 625	Swinger 140	Swinger 220	Waldon 4000
Engine					
Manufacturer	Mitsubishi	Ford (Gas) Ford (Diesel)	Perkins	Perkins	Perkins Continental
Model	4DQ50	172 G.F. 192	4.108	4.154	4-154 Diesel F-153 Gas
SAE Net hp @Gov rpm	37 @3000	53 @2400 53 @2400	37 @2800	48.5 @2800	47.1 @2200 47.6 @2200
Gross hp @Gov rpm	40 @3000	INA	44 @3000	57 @2800	INA
Cubic Inch Displacement	128	172 192	107.4	154	154
Number of Cylinders	4	4 4	4	4	4
Electrical					
Voltage	12	12	12	12	12
Standard Alternator	43 amp	INA	Sealed 30 amp	Sealed 30 amp	40 amp min.
Batteries	1-12 volt	INA	1-12 volt	1-12 volt	1-12 volt
System Protection	Fuses	INA	INA	INA	INA
Torque Converter					
Manufacturer	None	None	None	None	None
Type	None	None	None	None	None
Multiplication Ratio	None	None	None	None	None
Transmission					
Manufacturer	Sunstrand	INA	Sunstrand	Sunstrand	Commercial
Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydraulic
No. Speeds, Fwd./Rev.	2/2	3/3	1/1	1/1	3/3
Speeds - Fwd.	0-4.4 Work 0-12.7 Transport	3/6.5/19	0-7.3	0-10	0-8.0
Speeds - Rev.	0-4.4 Work 0-12.7 Transport	3/6.5/19	0-7.3	0-10	0-8.0
Automatic Power Shift	No	No	No	No	No
Modulation	No	No	No	No	No
Axles					
Manufacturer	Dana	INA	Dana	Dana	INA
Type of Axle	Full Float	INA	Semi-Float	Semi-Float	Full Float
Differential Front	Conventional	Limited Slip	Conventional	Limited Slip	Limited Slip
Differential Rear	Conventional	Limited Slip	Conventional	Limited Slip	Limited Slip
Type of Brakes (Operating)	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Disc
Parking Brake	Mechanical Disc	Mechanical Disc	Mechanical Disc	Mechanical Disc	Hydraulic Disc
Standard Tires	12.5 SL x 155 GT*	10 x 16.5*	27 x 8.50 - 15	10.0 x 16.5	8 x 16.5*
Largest Tires (Opt.)	None	12 x 16.5	26 x 12.0*	31 x 15.5 - 15*	10 x 16.5
Rear Axle or Frame Oscillation	16°	22°	20°	20°	10°
Operating Information					
Bucket - ft. ³	13.5	16.9	12.0	18	14.8
Max. Hinge Pin Height	112.0"	117"	110"	120"	111.375"
Reach @Max. Hgt. @45° Dump	27.1"	2'4.75"	11"	23.5"	27.75"
Max. Dump Clear @45° Dump	91.4"	96"	88.75"	105.75"	92"

INA - Information Not Available.

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

W4 AND COMPETITION (U.S.A.) cont.

Manufacturer & Model	Case W4	Raygo 625	Swinger 140	Swinger 220	Waldon 4000
Operating Information Cont.					
Rollback @Ground Level	33°	40°	37°	36°	INA
Reach @7' Hgt. - 45° Dump	27.0"	INA	INA	INA	27.75"
Digging Depth (Bucket Horizontal)	4.8" @10°	1"	INA	INA	INA
Breakout Force	5,250 lbs.	4,500 lbs.	4,576 lbs.	5,100 lbs.	5,950 lbs.
Tipping Load - Straight	3,430 lbs.	INA	INA	INA	3,150 lbs.
Tipping Load - 35°	3,000 lbs.	3,600 lbs. @37°	INA	INA	INA
Tipping Load - 40°	—	—	2,814 lbs.** 2,814 lbs.***	4,010 lbs.**	INA
Tipping Load - 45°	—	—	—	—	2,800 lbs.
Hydraulic Lift Capacity @Ground	5,700 lbs.	INA	INA	INA	4,600 lbs.
Hydraulic Lift Capacity @Full Hgt.	2,700 lbs.	INA	INA	INA	3,000 lbs.
Turn Radius over Bucket	132"	131"	109"	114"	104.5"
Approx. Operating Weight	4,730 lbs.	6,100 lbs.	5,190 lbs.** 5,190 lbs.***	7,100 lbs.**	6,920 lbs.
Dimensions					
Machine Hgt. over ROPS	91.0"	98.5"	83.5"	92"	76.625"
Tire Tread (Std. Tires)	46.5"	47.5"	INA	INA	INA
Width over Tires	59"	58"	48"	54"	48.25"
Ground Clearance	9.1"	8"	8.25"	9.25"	INA
Overall Length-Bucket on Ground	144.5"	167"	140.0"	155"	131.2"
Wheelbase	57.0"	58.0"	52.0"	58.0"	52"
Steering System					
Type	Hydraulic	Hydraulic Power	Hydraulic	Hydraulic	Hydraulic
Steering Pump Type	Gear	Gear	Gear	Gear	Gear
Steering Cylinders	1 = 2.5" x 8.0"	INA	1 = 2" x 10"	1 = 2.5" x 11.75"	INA
Pump Capacity	Combined w/Hyd. Pump	INA	INA	INA	INA
Type Articualtion	Center Pivot	INA	Center Pivot	Center Pivot	Center Pivot
Loader Hydraulic System					
Type	Closed	INA	INA	INA	INA
Cylinders - Lift	2 = 2.5" x 29.6"	INA	1 = 3" x 24"	1 = 3.5" x 25"	2 = 2.5" x 25.25"
Cylinders - Bucket	1 = 2.5" x 29.9"	INA	1 = 2.5" x 17.5"	1 = 3" x 23"	1 = 4" x 8"
Pump Type	Gear	INA	Gear	Gear	Gear
Pump Capacity	12 gpm	INA	9.1 gpm	15 gpm	14 gpm
Control Valve	2 Spool	INA	2 Spool	2 Spool	2 Spool
Raise Time	5.2 sec.	5.5 sec.	INA	INA	4.8 sec.
Lower Time	3.02 sec.	INA	INA	INA	3.4 sec.
Dump Time	1.54 sec.	INA	INA	INA	1.8 sec.

W4 AND COMPETITION (METRIC)

Manufacturer & Model	Case W4	Raygo 625	Swinger 140	Swinger 220	Waldon 4000
Engine					
Manufacturer	Mitsubishi	Ford (Gas) Ford (Diesel)	Perkins	Perkins	Perkins Continental
Model	4DQ50	172GF 192	4.108	4.154	4-154 F163
SAE Net hp @Gov rpm	27.69 kW @3000	39.5 kW @2400	27.6 kW @2800	33.12 kW @2800	35.1 kW @2200 35.5 kW @2200
Gross hp @Gov rpm	29.83 kW @3000	INA	32.8 kW@3000	42.5 kW @2800	INA
Displacement	2084 cm ³	2819 cm ³ 3146 cm ³	1760 cm ³	2524 cm ³	2500 cm ³
Number of Cylinders	4	4 4	4	4	4
Electrical					
Voltage	12	12	12	12	12
Standard Alternator	43 amp	INA	Sealed 30 amp	Sealed 30 amp	40 amp min.
Batteries	1-12 volt	INA	1-12 volt	1-12 volt	1-12 volt
System Protection	Fused	INA	INA	INA	INA
Torque Converter					
Manufacturer	None	None	None	None	None
Type	None	None	None	None	None
Multiplication Ratio	None	None	None	None	None
Transmission					
Manufacturer	Sunstrand	INA	Sunstrand	Sunstrand	Vickers
Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
No. Speeds, Fwd./Rev.	2/2	3/3	1/1	1/1	3/3
Speeds - Fwd. (km/h)	7.0/20.4	4.83/10.46/30.57	0-11.7	0-16	0-12.87
Speeds - Rev. (km/h)	7.0/20.4	4.83/10.46/30.57	0-11.7	0-16	0-12.87
Automatic Shift	No	No	No	No	No
Modulation	No	No	No	No	No
Axles					
Manufacturer	Dana	INA	Dana	Dana	Dana
Type of Axle	Full Float	INA	Semi Float	Semi Float	Full Float
Differential Front	Conventional	Limited Slip	Conventional	Limited Slip	Limited Slip
Differential Rear	Conventional	Limited Slip	Conventional	Limited Slip	Limited Slip
Type of Brakes (Operating)	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Disc
Parking Brake	Mechanical Disc	Mechanical Disc	Mechanical Disc	Mechanical Disc	Hydraulic Disc
Standard Tires	12.5L x 155GT*	10 x 16.5*	27 x 8.50-15	10.00 x 16.5	8 x 16.5*
Largest Tires (Opt.)	None	12 x 16.5	26 x 12 - 12*	31 x 15.50 - 15*	10 x 16.5
Rear Axle Oscillation	16°	22°	20°	20°	10°
Operating Information					
Bucket - m ³	.38 m ³	.48 m ³	.34 m ³	.51 m ³	.42 m ³
Max. Hinge Pin Height	2844 mm	2972 mm	2794 mm	2920 mm	2828.92 mm
Reach @Max. Hgt. - 45° Dump	688 mm	730 mm	279 mm	597 mm	704.85 mm
Max. Dump Clear @45° Dump	2321 mm	2438 mm	2254 mm	2686 mm	2336.8 mm

INA - Information Not Available.

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

W4 AND COMPETITION (METRIC) cont.

Manufacturer & Model	Case W4	Raygo 625	Swinger 140	Swinger 220	Waldon 4000
Operating Information Cont.					
Rollback @Ground Level	33°	40°	37°	36°	INA
Reach @7' Hgt. - 45° Dump	INA	INA	INA	INA	705 mm
Digging Depth (Bucket Horizontal)	122 mm @10°	25.4 mm @10°	INA	INA	INA
Breakout Force	2381 kg	2043 kg	2075 kg	2313.36 kg	2698.87 kg
Tipping Load - Straight	1555 kg	INA	INA	INA	1428.81 kg
Tipping Load - 35°	1361 kg	1634 kg @37°	INA	INA	INA
Tipping Load - 40°	—	—	1276 kg** 1276 kg***	1819 kg**	INA
Tipping Load - 45°	—	—	—	—	1270.05 kg
Hydraulic Lift Capacity @Ground	2585 kg	INA	INA	INA	2086.52 kg
Hydraulic Lift Capacity @Full Hgt.	1224 kg	INA	INA	INA	1360.77 kg
Turn Radius over Bucket	3353 mm	3327 mm	2768 mm	2896 mm	2200.27 mm
Approx. Operating Weight	2068 kg	2769 kg	2354 kg** 2354 kg***	3225 kg**	3138.86 kg
Dimensions					
Machine Hgt. over ROPS	2311 mm	2502 mm	2121 mm	2337 mm	1946.27 mm
Tire Tread (Std. Tires)	1118.11 mm	1200 mm	1219 mm	INA	1225.55 mm
Width over Tires	1149.86 mm	1473 mm	INA	1372 mm	INA
Ground Clearance	231 mm	203 mm	210 mm	235 mm	INA
Overall Length-Bucket on Ground	3670 mm	4242 mm	3556 mm	3937 mm	3332.16 mm
Wheelbase	1448 mm	1473 mm	1321 mm	1473 mm	1320.8 mm
Steering System					
Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Steering Pump - Type	Gear	Gear	Gear	Gear	Gear
Steering Cylinders	1 = 63.5 x 633.2 mm	INA	1 = 51 mm x 254 mm	1 = 64 x 298 mm	INA
Pump Capacity	Combined w/hyd. Pump	INA	INA	INA	INA
Type Articulation	Center Pivot	INA	Center Pivot	Center Pivot	Center Pivot
Loader Hydraulic System					
Type	Non Pressurized	INA	INA	INA	INA
Cylinders Lift	2 = 63.5 x 633.2 mm	INA	1 = 76 x 584 mm	1 = 89 x 641 mm	2 = 63.5 x 641.35 mm
Cylinders Bucket	1 = 63.5 x 752 mm	INA	1 = 64 x 445 mm	1 = 76 x 584 mm	1 = 101.6 x 203.2 mm
Pump Type	Gear	INA	Gear	Gear	Gear
Pump Capacity	45 lit/min	INA	34.4 lit/min	56.78 lit/min	53 lit/min
Control Valve	2 Spool	INA	2 Spool	2 Spool	2 Spool
Raise Time	5.2 sec.	5.5 sec.	INA	INA	4.8 sec.
Lower Time	3.02 sec.	INA	INA	INA	3.4 sec.
Dump Time	1.54 sec.	INA	INA	INA	1.8 sec.

W11 AND COMPETITION (U.S.A.)

Manufacturer & Model	Case W11	Allis-Chalmers 640	Cat 910	General L-450	Owatonna 780	Owatonna 880
Engine						
Manufacturer	Case	Perkins	Caterpillar	Perkins	Perkins	Perkins
Model	G207D	D4.203	3204	4.154	4.236	4.248
SAE Net hp @Gov rpm	55 @2100	57 @2300	65 @2400	54 @3000	70 @2250	INA
Gross hp @Gov rpm	60 @2100	63 @2300	INA	60 @3000	INA	83 @2500
Cubic Inch Displacement	207	203	318	154	236	248
Number of Cylinders	4	4	4	4	4	4
Electrical						
Voltage	12	12	12	INA	12	12
Standard Alternator	42 amp	42 amp	40 amp	INA	INA	55 amp
Batteries	1-12 volt	1-12 volt	INA	INA	INA	2-6 volt
System Protection	Circuit Breakers	INA	Circuit Breakers	INA	INA	INA
Torque Converter						
Manufacturer	Funk	None	Caterpillar	None	Clark	Clark
Type	Single Stage	None	Single Stage	None	Single Stage	Single Stage
Multiplication Ratio	3.05:1	None	INA	None	INA	2.91:1
Transmission						
Manufacturer	Funk	Cessna	Caterpillar	Sunstrand	Clark	Clark
Type	Countershaft	Hydrostatic	Planetary	Hydrostatic	Countershaft	Countershaft
No. Speeds, Fwd./Rev.	3/3	2/2	3/1 or 3/3	Infinite	3/3	3/3
Speeds - Fwd.	4/10.5/22.7	0-5/5-11.2	4/7.2/15	0-13	INA	4/9/18
Speeds - Rev.	4/10.5/22.7	0-5/5-11.2	6.6	0-13	INA	4/9/18
Automatic Power Shift	No	No	No	No	No	No
Modulation	Yes	No	Yes	No	Yes	Yes
Axles						
Manufacturer	Rockwell	INA	Caterpillar	INA	Soma	Rockwell
Type of Axle	Non Planetary	Outboard Planetary	Outboard Planetary	Non Planetary	Outboard Planetary	Outboard Planetary
Differential Front	Torque Prop	Full Power	Conventional	Conventional	INA	Torque Prop
Differential Rear	Torque Prop	Full Power	Conventional	NoSpin	INA	Torque Prop
Type of Brakes	Drum - Front Only	INA	Disc - Front Only	INA	Drum - Front Only	Drum
Brake Actuation	Hydraulic	Hydrostatic	Hydraulic	Hydrostatic	Hydraulic	Hydraulic
Standard Tires	None	12 x 16.5*	15.5 x 25*	15 x 19.5*	10.5 x 20	16.9 x 24*
Largest Tires (Opt.)	15 x 19.5*	31 x 15.5 - 15	—	—	15.00 x 19.5*	15.5 x 25
Rear Axle Oscillation	24°	22°	22°	26°	24°	22°
Operating Information						
Bucket - yd ³	1.0	0.75	1.25	1.0	1.0	1.125
Max. Hinge Pin Height	10'4"	10'3"	10'2"	10'2"	10'5"	11'1"
Reach @Max. Hgt. @45° Dump	3'1"	2'5.5"	2'10"	2'5"	3'1.5"	3'7"
Max. Dump Clear @45° Dump	8'6"	8'7"	8'	8'4.5"	8'3.5"	8'8"

INA - Information Not Available

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Prime Mover LD-50	Swinger 320	Terex 11C / 72-10	Waldon 6000		Waldon 8500	
Ford/Deere/Deutz	John Deere	Hatz	Deutz Diesel Deutz Diesel	Perkins Diesel	Perkins	Deutz
172/164/172	J.D. 219	Z108H	F3L912D F3L912W	4-203	6.3544	F5L912D
50 @2400	68 @2500	39.5 @3000	52 @2200 46 @2200	57.5 @2200	107 INT @2250	83 INT @2250
INA	70 @2500	43 @3000	INA	INA	INA	INA
172/164/172	219	123	172/172	203	354	287
4/3/3	4	2	3/3	4	6	5
12	12	12	12	12	12	12
35 amp	30 amp	33 amp	INA	INA	40 amp	40 amp
1-12 volt	1-12 volt	1-12 volt	INA	INA	1-12 volt	1-12 volt
INA	INA	INA	INA	INA	INA	INA
None	None	None	None	None	None	None
None	None	None	None	None	None	None
None	None	None	None	None	None	None
Sunstrand	Sunstrand	Z.F.	Vickers	Vickers	Sunstrand	Sunstrand
Hydrostatic	Hydrostatic	Hydrostatic	Hydraulic	Hydraulic	Hydrostatic	Hydrostatic
2/2	2/2	2/2	3/3	3/3	3/3	3/3
0-6.5/0-16	8/18	0-6/0-13	0-2.2/0-4.5/0-10	0-2.2/0-4.5/0-10	0-2.2/0-4.5/0-11	0-2.2/0-4.5/0-11
0-6.5/0-16	8/18	0-6/0-13	0-2.2/0-4.5/0-10	0-2.2/0-4.5/0-10	0-2.2/0-4.5/0-11	0-2.2/0-4.5/0-11
No	No	No	No	No	No	No
No	No	No	No	No	No	No
Dana	INA	Mercedes	Dana	Dana	Eaton	Eaton
Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary
Full Power	Full Power	INA	Full Power	Full Power	Conventional	Conventional
Full Power	Full Power	INA	Full Power	Full Power	Conventional	Conventional
INA	Integral with	Disc	Drum	Drum	Disc - Driveline	Disc - Driveline
INA	Hydraulic Drive	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hdraulic
10 x 16.5*	15 x 19.5*	12.5 x 18*	12 x 16.5*	12 x 16.5*	15 x 19.5*	15 x 19.5*
31 x 15.5 - 15	38 x 20	INA	—	—	—	—
22°	20°	22°	22°	22°	22°	22°
0.75	1.0	0.80	0.75	0.75	1.25	1.25
9'10"	11'6"	10'	10'4"	10'4"	11'0.75"	11'0.75"
2'6"	2'6"	2'4.3"	INA	INA	INA	INA
8'	9'6"	8'1.2"	8'11.375"	8'11.375"	9'3.12"	9'3.12"

W11 AND COMPETITION (U.S.A.) cont.

Manufacturer & Model	Case W11	Allis-Chalmers 640	Cat 910	General L-450	Owatonna 780	Owatonna 880
Operating Information Cont.						
Rollback @Ground Level	36°	40°	40°	45°	40°	42°
Reach @7' Hgt. - 45° Dump	4'4"	INA	INA	INA	INA	INA
Digging Depth (Bucket Horizontal)	5.4" @10°	2"	3"	INA	0"	INA
Breakout Force	10,200	7,000	9,320	12,630	INA	12,000
Tipping Load - Straight	7,305	5,100	9,885	7,010	7,420	9,000***
Tipping Load - 35°	6,365	4,000	9,060	—	—	—
Tipping Load - 40°	6,240	—	—	6,450	6,500	8,000***
Tipping Load - 45°	—	—	—	—	—	—
Hydraulic Lift Capacity @Ground	11,000	INA	INA	INA	INA	INA
Hydraulic Lift Capacity @Full Hgt.	8,000	INA	INA	9,042	INA	7,500
Turn Radius over Bucket	14'8.5"	14'2"	INA	11'8"	14'2"	15'6"
Approx. Operating Weight	10,351	8,130	14,210	8,500	12,900	15,000***
Dimensions						
Machine Hgt. over ROPS	7'10"	7'11.9"	9'11"	7'4"	8'1"	9'7"
Tire Tread (Std. Tires)	60"	INA	65"	54.5"	INA	67"
Width over Tires	76"	56"	82"	70.5"	INA	84"
Ground Clearance	10.1"	12.4"	16"	16.5"	11"	16"
Overall Length-Bucket on Ground	17'	14'11"	17'11"	15'3"	16'2"	18'2.5"
Wheelbase	92"	65"	92"	71"	83"	82"
Steering System						
Type	Hydrostatic	Hydrostatic	Hydraulic Power	INA	Hydraulic	Hydraulic
Steering Pump Type	Gear	INA	Gear	INA	INA	INA
Steering Cylinders	1=3" x 12.17"	INA	INA	INA	INA	INA
Pump Capacity	15 gpm @2100 rpm @2500 psi	9 gpm @2300 rpm @1500 psi	14 gpm @2400 rpm @2500 psi	INA	INA	12 gpm @2250 rpm @1600 psi
Type Articulation	Center Pivot	Center Pivot	Center Pivot	INA	INA	INA
Loader Hydraulic System						
Type	Pressurized	INA	INA	INA	INA	INA
Cylinders - Lift	2=3.5" x 28.5"	1=3.5" x 26.5"	2=4" x 23.88"	2=? x ?	INA	INA
Cylinders - Bucket	2=2.5" x 33.56"	1=3" x 28.1"	2=3" x 21.87"	2=? x ?	INA	INA
Pump Type	Gear	Gear	Gear	INA	INA	Gear
Pump Capacity	26 gpm @2100 rpm @2500 psi	25 gpm @2300 rpm @2250 psi	22.1 gpm @2400 rpm @2500 psi	INA	INA	28 gpm @2450 rpm @2250 psi
Control Valve	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool
Raise Time	5.2 sec.	5.0 sec.	6.0 sec.	3.0 sec.	4.5 sec.	7.0 sec.
Lower Time	5.3 sec.	2.0 sec.	3.5 sec.	2.5 sec.	3.5 sec.	5.0 sec.
Dump Time	1.9 sec.	2.0 sec.	1.3 sec.	2.25 sec.	1.0 sec.	2.5 sec.

INA - Information Not Available

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Prime Mover LD50	Swinger 320	Terex 11C / 72-10	Waldon 6000		Waldon 8500	
40°	33°	49° Carry Position	45°	45°	INA	INA
INA	INA	INA	INA	INA	INA	INA
2"	INA	8.5" @10°	1"	1"	4"	4"
5,600	8,514	8,047	5,900	5,900	12,300	12,300
4,000	INA	5,180	4,700	4,700	8,400	8,400
3,400 @36°	—	4,409 @38°	4,180 @37°	4,180 @37°	—	—
—	6,025**	—	—	—	—	—
—	—	—	—	—	7,050	7,050
INA	INA	INA	4,750	4,750	13,300 @Carry	13,300 @Carry
3,200	INA	5,864	2,400	2,400	6,000	6,000
INA	10'9"	14'1"	9'6.5"	9'6.5"	INA	INA
6,900	11,573**	8,377	8,800	9,140	14,000	12,890
7'7"	9'3"	8'10.3"	7'6.5"	7'6.5"	7'9"	7'9"
INA	INA	INA	INA	INA	INA	INA
59"	78.75"	70"	59.75"	59.75"	70"	70"
8"	10.7"	16.7"	INA	INA	INA	INA
14'	15'1.5"	16'1.3"	12'9.75"	12'9.75"	14'10"	14'10"
63"	72"	76.7"	56.81"	56.81"	66"	66"
Hydrostatic	Hydraulic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Gear	INA	Gear	INA	INA	INA	INA
INA	?=3" x 17"	1=2.5" x ?	?=3" x 8"	?=3" x 8"	?=3" x 8"	?=3" x 8"
6 gpm @2400 rpm @1200 psi	INA	6.3 gpm @3000 rpm @2175 psi	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump
Center Pivot	INA	Center Pivot	Center Pivot	Center Pivot	INA	INA
INA	INA	INA	Closed	Closed	INA	INA
2=3" x 21.25"	2=5" x 33.75"	2=3" x 20"	2=3" x 26"	2=3" x 26"	2=4" x 26"	2=4" x 26"
1=4" x 18.5"	1=3.5" x 39"	1=3.2" x 17.3"	1=5" x 8"	1=5" x 8"	1=5" x 10"	1=5" x 10"
Gear	INA	Gear	Vane	Vane	INA	INA
15 gpm @2400 rpm @2100 psi	29 gpm @2400 rpm @2200 psi	11 gpm @3000 rpm @2610 psi	31 gpm @2200 rpm @1800 psi	31 gpm @2200 rpm @1800 psi	32 gpm @2250 rpm @2500 psi	32 gpm @2250 rpm @2500 psi
2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	INA	INA
5.0 sec.	INA	6.5 sec.	5.3 sec.	5.3 sec.	INA	INA
3.5 sec.	INA	3.0 sec.	3.5 sec.	3.5 sec.	INA	INA
1.5 sec.	INA	1.8 sec.	INA	INA	INA	INA

W11 AND COMPETITION (METRIC)

Manufacturer & Model	Case W11	Allis-Chalmers 640	Cat 910	General L-450	Owatonna 780	Owatonna 880
Engine						
Manufacturer	Case	Perkins	Caterpillar	Perkins	Perkins	Perkins
Model	G207D	D4.203	3204	4.154	4.236	4.248
SAE Net hp @Gov rpm	41 kW @2100	42.5 kW @2300	48 kW @2400	40.3 kW @3000	52.2 kW @2250	INA
Gross hp @Gov rpm	44.7 kW @2100	46.9 kW @2300	INA	44.7 kW @3000	INA	61.9 kW @2500
Displacement	3393 cm ³	3376 cm ³	5211 cm ³	2524 cm ³	3867 cm ³	4064 cm ³
Number of Cylinders	4	4	4	4	4	4
Electrical						
Voltage	12	12	12	INA	12	12
Standard Alternator	42 amp	42 amp	40 amp	INA	INA	55 amp
Batteries	1-12 volt	1-12 volt	INA	INA	INA	2-6 volt
System Protection	Circuit Breakers	INA	Circuit Breakers	INA	INA	INA
Torque Converter						
Manufacturer	Funk	None	Caterpillar	None	Clark	Clark
Type	Single Stage	None	Single Stage	None	Single Stage	Single Stage
Multiplication Ratio	3.05:1	None	INA	None	INA	2.91:1
Transmission						
Manufacturer	Funk	Cessna	Caterpillar	Sunstrand	Clark	Clark
Type	Countershaft	Hydrostatic	Planetary	Hydrostatic	Countershaft	Countershaft
No. Speeds, Fwd./Rev.	3/3	2/2	3/1 or 3/3	Infinite	3/3	3/3
Speeds - Fwd. (km/h)	6.4/16.8/36.3	0-8.1/8.1-18.3	6.5/11.6/24.1	0-20.9	INA	6.4/14.5/29.0
Speeds - Rev. (km/h)	6.4/16.8/36.3	0-8.1/8.1-18.3	10.6	0-20.9	INA	6.4/14.5/29.0
Automatic Shift	No	No	No	No	No	No
Modulation	Yes	No	Yes	No	Yes	Yes
Axles						
Manufacturer	Rockwell	INA	Caterpillar	INA	Soma	Rockwell
Type of Axle	Non Planetary	Outboard Planetary	Outboard Planetary	Non Planetary	Outboard Planetary	Outboard Planetary
Differential Front	Torque Prop	Full Power	Conventional	Coventional	INA	Torque Prop
Differential Rear	Torque Prop	Full Power	Conventional	NoSpin	INA	Torque Prop
Type of Brakes	Drum-Front Only	INA	Disc-Front Only	INA	Drum - Front Only	Drum
Brake Actuation	Hydraulic	Hydrostatic	Hydraulic	Hydrostatic	Hydraulic	Hydraulic
Standard Tires	None	12.00 x 16.5*	15.5 x 25*	15.00 x 19.5*	10.5 x 20	16.9 x 24*
Largest Tires (Opt.)	15.00 x 19.5*	31 x 15.5 - 15	—	—	15.00 x 19.5*	15.5 x 25
Rear Axle Oscillation	24°	22°	22°	26°	24°	22°
Operating Information						
Bucket - m ³	.76 m ³	.57 m ³	.96 m ³	.76 m ³	.76 m ³	.86 m ³
Max. Hinge Pin Height	3150 mm	3073 mm	3090 mm	3099 mm	3175 mm	3378 mm
Reach @Max. Hgt. - 45° Dump	940 mm	775 mm	860 mm	740 mm	952 mm	1092 mm
Max. Dump Clear @45° Dump	2591 mm	2591 mm	2438 mm	2550 mm	2527 mm	2642 mm
Rollback @Ground Level	36°	40°	40°	45°	40°	42°
Reach @7' Hgt. - 45° Dump	1321 mm	INA	INA	INA	INA	INA
Digging Depth (Bucket Horizontal)	137 mm @10°	51 mm	76 mm	INA	0 mm	INA
Breakout Force	4631 kg	3175 kg	4230 kg	5729 kg	INA	5443 kg

INA - Information Not Available

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Prime Mover LD-50	Swinger 320	Terex 11C / 72-10	Waldon 6000		Waldon 8500	
Ford/Deere/Deutz	John Deere	Hatz	Duetz-Diesel	Perkins Diesel	Perkins	Deutz
172/164/172	J.D. 219	Z108H	F3L912D F3L912W	4-203	6.3544	F5L912D
37.3 kW @2400	50.7 kW @2500	29.4 kW @3000	38.8 kW @2200 34.3 kW @2200	42.8 kW @2200	79.8 kW @2250	61.9 kW @2250
INA	52.2 kW @2500	31.5 kW @3000	INA	INA	INA	INA
2800/2700/2800 cm ³	3589 cm ³	2000 cm ³	2819 cm ³ 2819 cm ³	3327 cm ³	5800 cm ³	4710 cm ³
4/3/3	4	2	3 3	4	6	5
12	12	12	12	12	12	12
35 amp	30 amp	33 amp	INA	INA	40 amp	40 amp
1-12 volt	1-12 volt	1-12 volt	INA	INA	1-12 volt	1-12 volt
INA	INA	INA	INA	INA	INA	INA
None	None	None	None	None	None	None
None	None	None	None	None	None	None
None	None	None	None	None	None	None
Sunstrand	Sunstrand	Z.F.	Vickers	Vickers	Sunstrand	Sunstrand
Hydrostatic	Hydrostatic	Hydrostatic	Hydraulic	Hydraulic	Hydrostatic	Hydrostatic
2/2	2/2	2/2	3/3	3/3	3/3	3/3
0-10.5/0-25.7	12.8/29	0-9.2/0-20	0-3.5/0-7.2/0-16.1	0-3.5/0-7.2/0-16.1	0-3.5/0-7.2/0-17.7	0-3.5/0-7.2/0-17.7
0-10.5/0-25.7	12.8/29	0-9.2/0-20	0-3.5/0-7.2/0-16.1	0-3.5/0-7.2/0-16.1	0-3.5/0-7.2/0-17.7	0-3.5/0-7.2/0-17.7
No	No	No	No	No	No	No
No	No	No	No	No	No	No
Dana	INA	Mercedes	Dana	Dana	Eaton	Eaton
Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary	Non Planetary
Full Power	Full Power	INA	Full Power	Full Power	Conventional	Conventional
Full Power	Full Power	INA	Full Power	Full Power	Conventional	Conventional
INA	Integral with Hydraulic	Disc	Drum	Drum	Disc - Driveline	Disc - Driveline
INA	Drive	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
10 x 16.5*	15 x 19.5*	12.5 x 18*	12 x 16.5*	12 x 16.5*	15 x 19.5*	15 x 19.5*
31 x 15.5 - 15	38 x 20	INA	—	—	—	—
22°	20°	22°	22°	22°	22°	22°
.57 m ³	.76 m ³	.6 m ³	.57 m ³	.57 m ³	.96 m ³	.96 m ³
2997 mm	3504 mm	3050 mm	3150 mm	3150 mm	3372 mm	3372 mm
711 mm	762 mm	720 mm	INA	INA	INA	INA
2438 mm	2896 mm	2470 mm	2727 mm	2727 mm	2823 mm	2823 mm
40°	33°	49° Carry Position	45°	45°	INA	INA
INA	INA	INA	INA	INA	INA	INA
51 mm	INA	215 mm @10°	25.4 mm	25.4 mm	102 mm	102 mm
2540 kg	3862 kg	3650 kg	2676 kg	2676 kg	5579 kg	5579 kg

W11 AND COMPETITION (METRIC) cont.

Manufacturer & Model	Case W11	Allis-Chalmers 640	Cat 910	General L-450	Owatonna 780	Owatonna 880
Operating Information Cont.						
Tipping Load - Straight	3316 kg	2313 kg	4480 kg	3180 kg	3365 kg	4082 kg***
Tipping Load - 35°	2890 kg	1814 kg	4110 kg	—	—	—
Tipping Load - 40°	2833 kg	—	—	2926 kg	2948 kg	3629 kg***
Tipping Load - 45°	—	—	—	—	—	—
Hydraulic Lift Capacity @Ground	4990 kg	INA	INA	INA	INA	INA
Hydraulic Lift Capacity @Full Hgt.	3629 kg	INA	INA	4101 kg	INA	3402 kg
Turn Radius over Bucket	4483 mm	4318 mm	INA	3556 mm	4318 mm	4724 mm
Approx. Operating Weight	4699 kg	3687 kg	6445 kg	3856 kg	5850 kg	6804 kg***
Dimensions						
Machine Hgt. over ROPS	2388 mm	2436 mm	3020 mm	2240 mm	2464 mm	2921 mm
Tire Tread (Std. Tires)	1524 mm	INA	1650 mm	1384 mm	INA	1702 mm
Width over Tires	1930 mm	1422 mm	2030 mm	1780 mm	INA	2134 mm
Ground Clearance	254 mm	315 mm	INA	420 mm	279 mm	406 mm
Overall Length-Bucket on Ground	5182 mm	3772 mm	5460 mm	4648 mm	4928 mm	5550 mm
Wheelbase	2337 mm	1651 mm	2340 mm	1800 mm	2108 mm	2083 mm
Steering System						
Type	Hydrostatic	Hydrostatic	INA	INA	Hydraulic	Hydraulic
Steering Pump - Type	Gear	INA	Gear	INA	INA	INA
Steering Cylinders	1 = 76 x 309 mm	INA	INA	INA	INA	INA
Pump Capacity	56.8 lit/min @2100 rpm @17.2 kPa	34.1 lit/min @2300 rpm @10.3 kPa	53 lit/min @2400 rpm @17.2 kPa	INA	INA	45.4 lit/min @2450 rpm @11.0 kPa
Type Articulation	Center Pivot	Center Pivot	Center Pivot	INA	INA	INA
Loader Hydraulic System						
Type	Pressurized	INA	INA	INA	INA	INA
Cylinders - Lift	2 = 89 x 724 mm	1 = 88.9 x 673.1 mm	2 = 102 x 606 mm	2 = ? x ? mm	INA	INA
Cylinders - Bucket	2 = 63.5 x 852 mm	1 = 76.2 x 713.9 mm	2 = 76 x 555 mm	2 = ? x ? mm	INA	INA
Pump Type	Gear	Gear	Gear	INA	INA	Gear
Pump Capacity	98.4 lit/min @2100 rpm @17.2 kPa	99.6 lit/min @2300 rpm @15.5 kPa	85 lit/min @2400 rpm @17.2 kPa	INA	INA	105.9 lit/min @2450 rpm @11.0 kPa
Control Valve	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool
Raise Time	5.2 sec.	5.0 sec.	6.0 sec.	3.0 sec.	4.5 sec.	7.0 sec.
Lower Time	5.3 sec.	2.0 sec.	3.5 sec.	2.5 sec.	3.5 sec.	5.0 sec.
Dump Time	1.9 sec.	2.0 sec.	1.3 sec.	2.25 sec.	1.0 sec.	2.5 sec.

INA - Information Not Available

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Prime Mover LD-50	Swinger 320	Terex 11C / 72-10	Waldon 6000		Waldon 8500	
1814 kg	INA	2350 kg	2132 kg	2132 kg	3810 kg	3810 kg
1542 kg @36°	—	2000 kg @38°	1896 kg @37°	1896 kg @37°	—	—
—	2732 kg**	—	—	—	—	—
—	—	—	—	—	3198 kg	3198 kg
INA	INA	INA	2155 kg	2155 kg	6033 kg @Carry	6033 kg @Carry
1452 kg	INA	2660 kg	1088 kg	1088 kg	2722 kg	2722 kg
INA	3277 mm	4300 mm	2908 mm	2908 mm	INA	INA
3130 kg	5260 kg**	3800 kg	3991 kg	4146 kg	6349 kg	5847 kg
2413 mm	2819 mm	2700 mm	2299 mm	2299 mm	2362 mm	2362 mm
INA	INA	INA	INA	INA	INA	INA
1473 mm	2000 mm	1780 mm	1508 mm	1508 mm	1778 mm	1778 mm
203 mm	272 mm	425 mm	INA	INA	INA	INA
4267 mm	4610 mm	4910 mm	3905 mm	3905 mm	4521 mm	4521 mm
1575 mm	1829 mm	1950 mm	1442 mm	1442 mm	1676 mm	1676 mm
Hydrostatic	Hydraulic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Gear	INA	Gear	INA	INA	INA	INA
INA	? = 76 x 433 mm	1 = 63 x ? mm	? = 76 x 203 mm	? = 76 x 203 mm	? = 76 x 203 mm	? = 76 x 203 mm
23 lit/min @2400 rpm @8.4 kPa	INA	24 lit/min @3000 rpm @15 kPa	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump	Combined w/ Ldr. Pump
Center Pivot	INA	Center Pivot	Center Pivot	Center Pivot	INA	INA
INA	INA	INA	Closed	Closed	INA	INA
2 = 76 x 540 mm	2 = 127 x 857 mm	2 = 75 x 510 mm	2 = 76 x 660 mm	2 = 76 x 660 mm	2 = 102 x 660 mm	2 = 102 x 660 mm
1 = 102 x 470 mm	1 = 89 x 991 mm	1 = 80 x 440 mm	1 = 127 x 203 mm	212 = 127 x 203 mm	1 = 127 x 254 mm	1 = 127 x 254 mm
Gear	INA	Gear	Vane	Vane	INA	INA
57 lit/min @2400 rpm @14.8 kPa	109.8 lit/min @2400 rpm @15.1 kPa	42 lit/min @3000 rpm @18 kPa	141 lit/min @2200 rpm @12.4 kPa	141 lit/min @2200 rpm @12.4 kPa	121 lit/min @2250 rpm @17.5 kPa	121 lit/min @2250 rpm @17.5 kPa
2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	INA	INA
5.0 sec.	INA	6.5 sec.	5.3 sec.	5.3 sec.	INA	INA
3.5 sec.	INA	3.0 sec.	3.5 sec.	3.5 sec.	INA	INA
1.5 sec.	INA	1.8 sec.	INA	INA	INA	INA

W14 AND COMPETITION (U.S.A.)

Manufacturer & Model	Case W14	Case W14H	Case W14 Feedlot	Cat 910	Cat 920	Clark 35C	
Engine							
Manufacturer	Case	Case	Case	Caterpillar	Caterpillar	G.M.	G.M.
Model	A336BD	A336BD	A336BD	3204	3304	3-53T	3-53N
SAE Net hp @Gov rpm	83 @2200	83 @2200	83 @2200	65 @2400	80 @2200	86 @2400	82 @2400
Gross hp @Gov rpm	93 @2200	93 @2200	93 @2200	INA	INA	96 @2400	98 @2400
Cubic Inch Displacement	336	336	336	318	425	159.2	159.2
Number of Cylinders	4	4	4	4	4	3	3
Electrical							
Voltage	24	24	24	12	24	12	12
Standard Alternator	40 amp	40 amp	40 amp	40 amp	35 amp	61 amp	61 amp
Batteries	2-12 volt	2-12 volt	2-12 volt	INA	INA	INA	INA
System Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	INA	INA
Torque Converter							
Manufacturer	Allison	Allison	Allison	Caterpillar	Caterpillar	Clark	Clark
Type	Twin Turbine	Twin Turbine	Twin Turbine	Single Stage	Single Stage	Single Stage	Single Stage
Multiplication Ratio	5.44:1	5.44:1	5.44:1	INA	INA	2.6:1	2.6:1
Transmission							
Manufacturer	Allison	Allison	Allison	Caterpillar	Caterpillar	Clark	Clark
Type	Planetary	Planetary	Planetary	Planetary	Planetary	Countershaft	Countershaft
No. Speeds, Fwd./Rev.	4/2	4/2	4/2	3/1 or 3/3	4/3	3/3	3/3
Speeds - Fwd.	3.2/7/11/22.4	3.2/7/11/22.4	3.2/7/11/22.4	4.0/7.2/15	4.0/7.3/11.9/27.2	3.6/6.7/17	3.6/6.7/17
Speeds - Rev.	4.0/9.0	4.0/9.0	4.0/9.0	6.6	4.8/8.8/14.4	3.6/6.7/17	3.6/6.7/17
Automatic Shift	Yes 1-2, 3-4	Yes 1-2, 3-4	Yes 1-2, 3-4	No	No	No	No
Modulation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Axles							
Manufacturer	Rockwell	Rockwell	Rockwell	Caterpillar	Caterpillar	Clark	Clark
Type of Axle	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary
Differential Front	Torque Prop	Torque Prop	Torque Prop	Conventional	Conventional	Torque Prop	Torque Prop
Differential Rear	Torque Prop	Torque Prop	Torque Prop	Conventional	Conventional	Torque Prop	Torque Prop
Type of Brakes	Drum/Disc	Drum/Disc	Drum/Disc	Disc-Front Only	Disc	Disc	Disc
Brake Actuation	Air/Hydraulic	Air/Hydraulic	Air/Hydraulic	Hydraulic	Air/Hydraulic	Hydraulic	Hydraulic
Standard Tires	15.5 x 25*	15.5 x 25*	16.9 x 24*	15.5 x 25*	15.5 x 25*	15.5 x 25*	15.5 x 25*
Largest Tires (Opt.)	18.4 x 26	16.9 x 24	—	—	15.5 x 25	17.5 x 25	17.5 x 25
Rear Axle Oscillation	24°	24°	24°	22°	28°	18°	18°
Operating Information							
Bucket - yd ³	1.50	1.50	2.0	1.25	1.50	1.50	1.50
Max. Hinge Pin Height	11'2"	11'2"	12'1"	10'2"	11'7"	11'1"	11'1"
Reach @Max. Hgt. @45° Dump	2'8"	2'8"	2'7.5" @38°	2'10"	2'5"	3'1.8"	3'1.8"
Max. Dump Clear @45° Dump	8'10.5"	8'10.5"	10'2" @38°	8'	9'1"	8'9"	8'9"
Rollback @Ground Level	45°	45°	34°	40°	39°	44° @Carry Position	44° @Carry Position
Reach @7' Hgt. - 45° Dump	4'1.5"	4'1.5"	4'9"	INA	4'	4'8"	4'8"
Digging Depth (Bucket Horizontal)	2.5"	2.5"	1.2"	3"	2.6"	3.7"	3.7"
Breakout Force	12,361	12,361	11,077	9,320	17,680	12,800	12,800
Tipping Load - Straight	10,556	11,819	6,707***	9,885	13,390**	10,490**	10,490**

INA - Information Not Available.

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Fiat Allis 345B	Ford A-62	I.H. 510B	John Deere 444C	Kobelco LK300	Owatonna 880	Terex 22C / 72-15	Trojan 1500C	
Allis-Chalmers	Ford	International	John Deere	Mitsubishi	Perkins	Deutz	G.M.	Perkins
2800 Mark I	268DT	D-268	J.D. 329	6DR50C	4.248	F4L912	3-53N50	4.248
80 @2500	100 @2100	80 @2500	85 @2400	74 @2400	INA	73 @2500	85 @2600	75 @2500
INA	105 @2100	85 @2500	95 @2400	INA	83 @2450	79 @2500	98 @2600	82 @2500
301	268	268	329	244	248.2	230	159	248
6	4	4	6	6	4	4	3	4
12	12	24	12	24	12	12	12	12
51 amp	72 amp	50 amp	62 amp	21 amp	55 amp	33 amp	55 amp	55 amp
2-12 volt	1-12 volt	2-12 volt	2-12 volt	INA	2-6 volt	1-12 volt	INA	INA ,
Circuit Breakers	INA	INA	INA	INA	INA	INA	INA	INA
Clark	Allison	INA	Allison	INA	Clark	Z.F.	Allison	Allison
Single Stage	Twin Turbine	Single Stage	Twin Turbine	Single Stage	Single Stage	Hydrostatic	Twin Turbine	Twin Turbine
3.1:1	4.8:1	2.95:1	5.44:1	3.26:1	2.91:1	—	5.1:1	5.1:1
Clark	Allison	INA	Allison	INA	Clark	Z.F.	Allison	Allison
Countershaft	Planetary	Countershaft	Planetary	Countershaft	Countershaft	Hydrostatic	Planetary	Planetary
3/3	4/2	3/3	4/2	3/1	3/3	2/2	4/2	4/2
4.0/8.2/20.7	0-5.5/5.5-20	4.5/8.9/20.0	2.9/6.5/11/24.6	4.8/9.9/21.4	4/9/16-19	0-7.5/0-15.5	2.8/7/10.7/25	2.6/6.7/10.3/24.3
4.0/8.2/20.7	0-7.4	4.5/8.9/20.0	3.9/8.8	6.2	4/9/16-19	0-7.5/0-15.5	3.8/9.5	3.5/9.1
No	Yes 1-2, 3-4	No	Yes 1-2, 3-4	No	No	No	Yes 1-2, 3-4	Yes 1-2, 3-4
Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
INA	Ford	INA	Deere	INA	Rockwell	Mercedes	INA	INA
Outboard Planetary	Inboard Planetary	Inboard Planetary	Inboard Planetary	Outboard Planetary	Outboard Planetary	Non Planetary	Outboard Planetary	Outboard Planetary
Torque Prop	Torque Prop	Conventional	Conventional	Conventional	Torque Prop	INA	Torque Prop	Torque Prop
Torque Prop	Torque Prop	Conventional	Conventional	Conventional	Torque Prop	INA	Torque Prop	Torque Prop
Drum	Disc	Disc	Disc	Disc	Drum	Disc	Disc	Disc
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
14.0 x 24	15.5 x 25*	16.9 x 24*	15.5 x 25* 13.00 x 24	16.9 x 24*	16.9 x 24*	15.5 x 25*	15.5 x 25* 13.00 x 24	15.5 x 25* 13.00 x 24
15.5 x 25* 17.5 x 25	17.5 x 25	15.5 x 25	17.5 x 25	16.9 x 24	15.5 x 25	16 x 20	15.5 x 25	15.5 x 25
22°	24°	24°	22°	22°	22°	22°	24°	24°
1.50	1.50	1.625	1.50	1.57	1.125	1.60	1.50	1.50
11'4"	11'11"	11'	11'4.3"	11'1.27"	11'1"	11'4"	11'4.5"	11'4.5"
3'3"	2'9.4"	3'3.2"	2'8.9"	INA	3'7"	2'4"	2'9"	2'9"
9'4"	9'4"	8'9"	9'1.2"	8'11.1"	8'8"	9'	9'	9'
45°	45°	37°	40°	51° Carry Position	42°	47° Carry Position	40°	40°
4'10.5"	INA	4'4.3"	INA	INA	INA	INA	4'5"	4'5"
3"	2.875"	1.9"	4"	INA	INA	8" @10°	INA	INA
12,160	17,000	14,000	16,985	9,700	12,000	13,230	16,790	16,790
12,215**	12,540**	10,534**	12,985	10,472	9,000***	8,380	12,565**	12,565**

W14 AND COMPETITION (U.S.A) cont.

Manufacturer & Model	Case W14	Case W14H	Case W14 Feedlot	Cat 910	Cat 920	Clark 35C	
Operating Information Cont.							
Tipping Load - 35°	9,601	10,750	—	9,060	12,470**	9,600**	9,600**
Tipping Load - 40°	9,321	10,436	5,361***	—	—	—	—
Tipping Load - 45°	—	—	—	—	—	—	—
Hydraulic Lift Capacity @Ground	15,200	15,200	INA	INA	INA	INA	INA
Hydraulic Lift Capacity @Full Hgt.	8,340	8,500	INA	INA	INA	INA	INA
Turn Radius over Bucket	16'4"	16'4"	17'3"	INA	18'3.5"	18'	18'
Approx. Operating Weight	14,745	15,686	15,400***	14,210	18,490**	17,430**	17,430**
4-IN-1 Bucket							
Max. Dump Clear @45°	9'1.5"	9'1.5"	Not	8'	8'7"	Not	Not
Bottom Dump Clear @45°	11'	11'	Available	9'2"	INA	Available	Available
Fwd. Dump Reach @45° Discharge	3'	3'	On This	2'9"	2'8"	Thru	Thru
Reach @45° Dump Angle 7' Clear	5'	5'	Unit	INA	4'	Clark	Clark
Breakout Force	12,058	12,058		9,695	14,440		
Tipping Load - Straight	10,463	12,279		9,280	12,350**		
Tipping Load - 35°	9,517	11,169		8,470	11,470**		
Tipping Load - 40°	9,239	10,843		—	—		
Tipping Load - 45°	—	—		—	—		
Approx. Operating Weight	15,095	16,583		14,880	19,090**		
Bucket - yd ³	1.25	1.25		1.0	1.5		
Dimensions							
Machine Hgt. over ROPS	10'	10'	10'1"	9'11"	10'3"	10'	10'
Tire Tread (Std. Tires)	68"	68"	69"	65"	73"	69"	69"
Width over Tires	84"	84"	85.5"	82"	89"	85.5"	85.5"
Ground Clearance	16"	16"	17"	16"	13.2"	14.5"	14.5"
Overall Length-Bucket on Ground	18'4"	18'4"	20'1"	17'11"	18'9"	19'5.6"	19'5.6"
Wheelbase	100"	100"	100"	92"	100"	100"	100"
Steering System							
Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Steering Pump Type	Gear	Gear	Gear	Gear	Vane	Gear	Gear
Steering Cylinders	2=2.5" x 14.1"	2=2.5" x 14.1"	2=2.5" x 14.1"	INA	2=3" x ?	2=2.5" x 13"	2=2.5" x 13"
Pump Capacity	21 gpm @2200 rpm @2000 psi	21 gpm @2200 rpm @2000 psi	21 gpm @2200 rpm @2000 psi	14 gpm @2400 rpm @2500 psi	25.4 gpm @2200 rpm @1000 psi	27.6 gpm @2400 rpm @1600 psi	27.6 gpm @2400 rpm @1600 psi
Type Articulation	Center Pivot	Center Pivot	Center Pivot	Center Pivot	Center Pivot	Non Center Pivot	Non Center Pivot
Loader Hydraulic System							
Type	Closed, Positive Air Pressurized	Closed, Positive Air Pressurized	Closed, Positive Air Pressurized	INA	Sealed	Closed Pressurized	Closed Pressurized
Cylinders - Lift	2=4.5" x 25.38"	2=4.5" x 25.38"	2=4.5" x 25.38"	2=4.0" x 23.88"	2=4.25" x 30.8"	2=4" x 26.77"	2=4" x 26.77"
Cylinders - Bucket	2=3" x 30.5"	2=3" x 30.5"	2=3" x 30.5"	2=3" x 21.87"	2=4" x 16.6"	2=3.5" x 25.80"	2=3.5" x 25.80"
Pump Type	Dual Stage Gear	Dual Stage Gear	Dual Stage Gear	Dual Stage Gear	INA	Gear	Gear
Pump Capacity	34 gpm @2200 rpm @2200 psi	34 gpm @2200 rpm @2200 psi	34 gpm @2200 rpm @2200 psi	22 gpm @2400 rpm @2500 psi	33.3 gpm @2200 rpm @1000 psi	27.6 gpm @2400 rpm @1600 psi	27.6 gpm @2400 rpm @1600 psi
Control Valve	2 Spool	2 Spool	3 Spool	2 Spool	2 Spool	2 Spool	2 Spool
Raise Time	5.5 sec.	5.5 sec.	6.1 sec.	6.0 sec.	6.0 sec.	5.8 sec.	5.8 sec.
Lower Time	4.0 sec.	4.0 sec.	2.4 sec.	3.5 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Dump Time	1.7 sec.	1.7 sec.	2.0 sec.	1.3 sec.	1.2 sec.	1.6 sec.	1.6 sec.

INA - Information Not Available.

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Flat Allis 345B	Ford A-62	I.H. 510B	John Deere 444C	Kobelco LK300	Owatonna 880	Terex 22C / 72-15	Trojan 1500C	
10,835**	11,119**	—	—	—	—	—	11,434**	11,434**
10,432**	10,824**	8,955**	11,253	9,259	8,000***	7,495	—	—
—	10,505**	—	—	—	—	—	—	—
INA	INA	12,245 Carry Position	18,200	INA	INA	INA	INA	INA
INA	INA	INA	7,550	INA	7,500	12,125	INA	INA
16'1"	14'11"	16'2"	16'	16'0.1"	15'6"	16'	17'11"	17'11"
16,890**	18,650**	14,548**	18,315	14,220	15,000***	13,670	16,471**	16,471**
8'10.7"	9'2"	8'8"	8'5.7"	INA	INA, But	8'9.5"	9'	9'
INA	INA	INA	INA	INA	Owatonna	INA	INA	INA
3'9.5"	3'0.6"	3'0.5"	2'9.35"	INA	Offers One	2'3"	2'9"	2'9"
5'7.1"	INA	4'4"	INA	INA	in Their	INA	4'5"	4'5"
8,985	17,000	13,920	14,620	INA	Price List	13,010	15,402	15,402
10,868**	11,745**	10,023**	10,840	INA	—	7,495	10,445**	10,445**
9,573**	10,324**	—	—	INA	—	6,615 @37°	9,505**	9,505**
9,196**	10,029**	8,520**	9,270	INA	—	—	—	—
—	9,710**	—	—	INA	—	—	—	—
16,901**	19,425**	15,263**	19,251	INA	—	14,550	17,331**	17,331**
1.25	1.5	1.25	1.5	INA	1.125	1.3	1.5	1.5
9'9"	10'3"	10'2"	9'11"	9'8.54"	9'7"	9'3"	10'1"	10'1"
70"	68.5"	71.7"	67.7"	68.9"	67"	INA	69"	69"
87"	85.5"	90.2"	85.5"	86.2"	84"	69"	85.5"	85.5"
15"	15"	16.1"	15.5"	15.75"	16"	21"	12"	12"
18'1"	19'	18'	19'	18'4.5"	18'2.5"	17'8"	18'11"	18'11"
96"	103"	96"	94.5"	96"	82"	86.6"	101"	101"
Hydrostatic	Hydraulic Power	Hydrostatic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Gear	Gear	Gear	Piston	INA	INA	Gear	Gear	Gear
2=3" x 19.4"	2=3" x 16.94"	2=3" x 16.2"	INA	2=2.8" x 24.4"	INA	2=2.4" x ?	2=3" x 12"	2=3" x 12"
12 gpm @2500 rpm @2350 psi	13 gpm @2100 rpm @2500 psi	INA	20.6gpm@1800 rpm @2000 psi	15.9gpm@2400 rpm @2133 psi	12 gpm @2450 rpm @1600 psi	12.7 gpm@2500 rpm @2175 psi	20 gpm @2500 rpm @1000 psi	20 gpm @2500 rpm @1000 psi
Center Pivot	Center Pivot	Center Pivot	Non Center Pivot	Center Pivot	Non Center Pivot	Center Pivot	INA	INA
Closed/Pressure & Vacuum Relief	Pressurized	Closed with Pressure Control	INA	Closed and Pressurized	INA	INA	Closed Pressurized	Closed Pressurized
2=4" x 31.4"	2=4.5" x 26.35"	2=4" x 22"	2=5.25" x 22.5"	2=3.9" x 20.4"	INA	2=3.9" x 23.6"	2=4.75" x 24.25"	2=4.75" x 24.25"
2=3" x 36"	1=5.5" x 26.91"	1=4" x 17.5"	1=5.25" x 25.3"	2=2.8" x 24.4"	INA	2=3.0" x 20"	1=4.75" x 28.75"	1=4.75" x 28.75"
Gear	Gear	Gear	Gear	INA	Gear	Gear	Gear	Gear
30 gpm @2500 rpm @2350 psi	34 gpm @2100 rpm @2500 psi	24.5 gpm @2500 rpm @3000 psi	40 gpm @2400 rpm @600 psi	20.1 gpm @2400 rpm @2987 psi	28 gpm @2450 rpm @1600 psi	25.4 gpm @2500 rpm @2610 psi	34 gpm @2500 rpm @1000 psi	34 gpm @2500 rpm @1000 psi
2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	3 Spool	3 Spool
6.5 sec.	6.0 sec.	5.9 sec.	5.8 sec.	6.0 sec.	7.0 sec.	6.0 sec.	6.2 sec.	6.2 sec.
3.4 sec.	3.2 sec.	4.5 sec.	3.7 sec.	2.4 sec.	5.0 sec.	3.5 sec.	4.5 sec.	4.5 sec.
2.0 sec.	1.3 sec.	1.8 sec.	1.6 sec.	1.6 sec.	2.5 sec.	1.0 sec.	2.9 sec.	2.9 sec.

W14 AND COMPETITION (METRIC)

Manufacturer & Model	Case W14	Case W14H	Case W14 Feedlot	Cat 910	Cat 920	Clark 35C	
Engine							
Manufacturer	Case	Case	Case	Caterpillar	Caterpillar	G.M.	G.M.
Model	A336BD	A336BD	A336BD	3204	3304	3-53T	3-53N
SAE Net hp @Gov rpm	61.9 kW @2200	61.9 kW @2200	61.9 kW @2200	48 kW @2400	59.6 kW @2200	64 kW @2400	63 kW @2400
Gross hp @Gov rpm	69.4 kW @2200	69.4 kW @2200	69.4 kW @2200	INA	INA	72 kW @2400	73 kW @2400
Displacement	5506 cm ³	5506 cm ³	5506 cm ³	5211 cm ³	6965 cm ³	2609 cm ³	2609 cm ³
Number of Cylinders	4	4	4	4	6	3	3
Electrical							
Voltage	24	24	24	12	24	12	12
Standard Alternator	40 amp	40 amp	40 amp	40 amp	35 amp	61 amp	61 amp
Batteries	2-12 volt	2-12 volt	2-12 volt	INA	INA	INA	INA
System Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	INA	INA
Torque Converter							
Manufacturer	Allison	Allison	Allison	Caterpillar	Caterpillar	Clark	Clark
Type	Twin Turbine	Twin Turbine	Twin Turbine	Single Stage	Single Stage	Single Stage	Single Stage
Multiplication Ratio	5.44:1	5.44:1	5.44:1	INA	INA	2.6:1	2.6:1
Transmission							
Manufacturer	Allison	Allison	Allison	Caterpillar	Caterpillar	Clark	Clark
Type	Planetary	Planetary	Planetary	Planetary	Planetary	Countershaft	Countershaft
No. Speeds, Fwd./Rev.	4/2	4/2	4/2	3/1 or 3/3	4/3	3/3	3/3
Speeds - Fwd. (km/h)	5.3/11.3/17.7/36.1	5.3/11.3/17.7/36.1	5.3/11.3/17.7/36.1	6.5/11.6/24.1	6.4/11.7/19.2/43.8	5.8/10.8/27.4	5.8/10.8/27.4
Speeds - Rev. (km/h)	6.4/14.5	6.4/14.5	6.4/14.5	10.6	7.7/14.2/23.2	5.8/10.8/27.4	5.8/10.8/27.4
Automatic Power Shift	Yes 1-2,3-4	Yes 1-2, 3-4	Yes 1-2, 3-4	No	No	No	No
Modulation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Axles							
Manufacturer	Rockwell	Rockwell	Rockwell	Caterpillar	Caterpillar	Clark	Clark
Type of Axle	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary	Outboard Planetary
Differential Front	Torque Prop	Torque Prop	Torque Prop	Conventional	Conventional	Torque Prop	Torque Prop
Differential Rear	Torque Prop	Torque Prop	Torque Prop	Conventional	Conventional	Torque Prop	Torque Prop
Type of Brakes	Drum/Disc	Drum/Disc	Drum/Disc	Disc-Front Only	Disc	Disc	Disc
Brake Actuation	Air/Hydraulic	Air/Hydraulic	Air/Hydraulic	Hydraulic	Air/Hydraulic	Hydraulic	Hydraulic
Standard Tires	15.5 x 25*	15.5 x 25*	16.9 x 24*	15.5 x 25*	15.5 x 25*	15.5 x 25*	15.5 x 25*
Largest Tires (Opt.)	18.4 x 26	16.9 x 24	—	—	15.5 x 25	17.5 x 25	17.5 x 25
Rear Axle Oscillation	24°	24°	24°	22°	28°	18°	18°
Operating Information							
Bucket - m ³	1.15 m ³	1.15 m ³	1.53 m ³	1.0 m ³	1.15 m ³	1.15 m ³	1.15 m ³
Max. Hinge Pin Height	3404 mm	3404 mm	3683 mm	3090 mm	3530 mm	3378 mm	3378 mm
Reach @Max. Hgt. @45° Dump	813 mm	813 mm	800 mm@38°	860 mm	740 mm	960 mm	960 mm
Max. Dump Clear @45° Dump	2705 mm	2705 mm	3091 mm @38°	2440 mm	2770 mm	2667 mm	2667 mm
Rollback @Ground Level	45°	45°	34°	40°	39°	44° Carry Position	44° Carry Position
Reach @7' Hgt. - 45° Dump	1258 mm	1258 mm	1448 mm	INA	1220 mm	1422 mm	1422 mm
Digging Depth (Bucket Horizontal)	63.5 mm	63.5 mm	30.5 mm	76 mm	66 mm	94 mm	94 mm
Breakout Force	5607 kg	5607 kg	5029 kg	4230 kg	8020 kg	5806 kg	5806 kg
Tipping Load - Straight	4788 kg	5361 kg	3045 kg***	4480 kg	6074 kg**	4758 kg**	4758 kg**

INA - Information Not Available

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Fiat Allis 345B	Ford A-62	I.H. 510B	John Deere 444C	Kobelco LK300	Owatonna 880	Terex 22C / 72-15	Trojan 1500C	
Allis-Chalmers	Ford	International	John Deere	Mitsubishi	Perkins	Deutz	G.M.	Perkins
2800 Mark I	268DT	D-268	J.D. 329	6DR50C	4.248	F4L912	3-53N50	4.248
59.6 kW @2500	74.5 kW @2100	59.7 kW @2500	63.4 kW @2400	55 kW @2400	INA	54.4 kW @2500	63.4 kW @2600	56 kW @2500
INA	78.3 kW @2100	63.4 kW @2500	71 kW @2400	INA	61.9 kW @2400	58 kW @2500	73 kW @2600	61 kW @2500
4933 cm ³	4400 cm ³	4392 cm ³	5391 cm ³	3998 cm ³	4067 cm ³	3760 cm ³	2606 cm ³	4064 cm ³
6	4	4	6	6	4	4	3	4
12	12	24	12	24	12	12	12	12
51 amp	72 amp	50 amp	62 amp	21 amp	55 amp	33 amp	55 amp	55 amp
2-12 volt	1-12 volt	2-12 volt	2-12 volt	INA	2-6 volt	1-12 volt	INA	INA
INA	INA	Circuit Breaker	INA	INA	INA	INA	INA	INA
Clark	Allison	INA	Allison	INA	Clark	Z.F.	Allison	Allison
Single Stage	Twin Turbine	Single Stage	Twin Turbine	Single Stage	Single Stage	Hydrostatic	Twin Turbine	Twin Turbine
3.1:1	4.8:1	2.95:1	5.44:1	3.26:1	2.91:1	—	5.1:1	5.1:1
Clark	Allison	INA	Allison	INA	Clark	Z.F.	Allison	Allison
Countershaft	Planetary	Countershaft	Planetary	Countershaft	Countershaft	Hydrostatic	Planetary	Planetary
3/3	4/2	3/3	4/2	3/1	3/3	2/2	4/2	4/2
6.4/13.2/33.3	0-8.9/8.9-32.2	7.2/14.3/32.2	4.7/10.5/17.7/39.6	7.8/16/34.5	6.4/14.5/29.0	0-12/0-25	4.5/11.3/17.2/40.2	4.2/10.8/16.6/39.1
6.4/13.2/33.3	0-11.9	7.2/14.3/32.2	6.3/14.2	10	6.4/14.5/29.0	0-12/0-25	6.1/15.3	5.6/14.6
No	Yes 1-2, 3-4	No	Yes 1-2, 3-4	No	No	No	Yes 1-2, 3-4	Yes 1-2, 3-4
Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
INA	Ford	INA	Deere	INA	Rockwell	Mercedes	INA	INA
Outboard Planetary	Inboard Planetary	Inboard Planetary	Inboard Planetary	Outboard Planetary	Outboard Planetary	Non Planetary	Outboard Planetary	Outboard Planetary
Torque Prop	Torque Prop	Conventional	Conventional	Conventional	Torque Prop	INA	Torque Prop	Torque Prop
Torque Prop	Torque Prop	Conventional	Conventional	Conventional	Torque Prop	INA	Torque Prop	Torque Prop
Drum	Disc	Disc	Disc	Disc	Drum	Disc	Disc	Disc
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Power Boosted Hydraulic	Power Boosted Hydraulic
14.00 x 24	15.5 x 25*	16.9 x 24	15.5 x 25* 13.00 x 24	16.9 x 24*	16.9 x 24*	15.5 x 25*	15.5 x 25* 13.00 x 24	15.5 x 25* 13.00 x 24
15.5 x 25* 17.5 x 25	17.5 x 25	15.5 x 25*	17.5 x 25	16.9 x 24	15.5 x 25	16 x 20	15.5 x 25	15.5 x 25
22°	24°	24°	22°	22°	22°	22°	24°	24°
1.15 m ³	1.2 m ³	1.24 m ³	1.15 m ³	1.2 m ³	.86 m ³	1.2 m ³	1.15 m ³	1.15 m ³
3455 mm	3632 mm	3360 mm	3460 mm	3385 mm	3378 mm	3450 mm	3467 mm	3467 mm
987 mm	848 mm	1000 mm	836 mm	INA	1092 mm	710 mm	838 mm	838 mm
2844 mm	2845 mm	2670 mm	2770 mm	2720 mm	2642 mm	2735 mm	2743 mm	2743 mm
45°	45°	37°	40°	51° Carry Position	42°	47° Carry Position	40°	40°
1489 mm	INA	1330 mm	INA	INA	INA	INA	1346 mm	1346 mm
80 mm	69 mm	49 mm	102 mm	INA	INA	210 mm @10°	INA	INA
5516 kg	7711 kg	6350 kg	7704 kg	4400 kg	5443 kg	6000 kg	7616 kg	7616 kg
5541 kg**	5688 kg**	4778 kg**	5890 kg	4750 kg	4082 kg***	3800 kg	5700 kg**	5700 kg**

W14 AND COMPETITION (METRIC) cont.

Manufacturer & Model	Case W14	Case W14H	Case W14 Feedlot	Cat 910	Cat 920	Clark 35C	
Operating Information Cont.							
Tipping Load - 35°	4355 kg	4876 kg	—	4110 kg	5656 kg**	4355 kg**	4355 kg**
Tipping Load - 40°	4228 kg	4734 kg	2434 kg***	—	—	—	—
Tipping Load - 45°	—	—	—	—	—	—	—
Hydraulic Lift Capacity @Ground	6895 kg	6895 kg	INA	INA	INA	INA	INA
Hydraulic Lift Capacity @Full Hgt.	3783 kg	3856 kg	INA	INA	INA	INA	INA
Turn Radius over Bucket	4978 mm	4978 mm	5258 mm	INA	5600 mm	5486 mm	5486 mm
Approx. Operating Weight	6688 kg	7115 kg	6992 kg***	6445 kg	8387 kg**	7906 kg	7906 kg
4-IN-1 Bucket							
Bucket - m ³	.97 m ³	.97 m ³	Not	0.8 m ³	1.15 m ³	Not	Not
Max. Dump Clear @45°	2781 mm	2781 mm	Available	2440 mm	2620 mm	Available	Available
Bottom Dump Clear @45°	3353 mm	3353 mm	On This	2790 mm	INA	Thru	Thru
Fwd. Dump Reach @45° Discharge	914 mm	914 mm	Unit	840 mm	810 mm	Clark	Clark
Reach @45° Dump Angle, 7' Clear	1524 mm	1524 mm	—	INA	1220 mm	—	—
Breakout Force	5470 kg	5470 kg	—	4400 kg	6550 kg	—	—
Tipping Load - Straight	4746 kg	5570 kg	—	4210 kg	5602 kg**	—	—
Tipping Load - 35°	4317 kg	5066 kg	—	3840 kg	5203 kg**	—	—
Tipping Load - 40°	4191 kg	4918 kg	—	—	—	—	—
Tipping Load - 45°	—	—	—	—	—	—	—
Approx. Operating Weight	6847 kg	7522 kg	—	6750 kg	8650 kg**	—	—
Dimensions							
Machine Hgt. over ROPS	3048 mm	3048 mm	3073 mm	3020 mm	3120 mm	3048 mm	3048 mm
Tire Tread (Std. Tires)	1727 mm	1727 mm	1753 mm	1650 mm	1850 mm	1753 mm	1753 mm
Width over Tires	2134 mm	2134 mm	2172 mm	2030 mm	2260 mm	2172 mm	2172 mm
Ground Clearance	406 mm	406 mm	432 mm	—	—	368 mm	368 mm
Overall Length-Bucket on Ground	5588 mm	5588 mm	6121 mm	5460 mm	5700 mm	5933 mm	5933 mm
Wheelbase	2540 mm	2540 mm	2540 mm	2340 mm	2540 mm	2540 mm	2540 mm
Steering System							
Type	Hydrostatic	Hydrostatic	Hydrostatic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Steering Pump Type	Gear	Gear	Gear	Gear	Vane	Gear	Gear
Steering Cylinders	2=63.5 x 358 mm	2=63.5 x 358 mm	2=63.5 x 358 mm	INA	INA	2=63.5x330.2mm	2=63.5x330.2mm
Pump Capacity	79.5lit/min@2200 rpm @13.8 kPa	79.5lit/min@2200 rpm @13.8 kPa	79.5lit/min@2200 rpm @13.8 kPa	53 lit/min @2400 rpm @17.2 kPa	96 lit/min @2200 rpm @6.8 kPa	104.5lit/min@2400 rpm @11.0 kPa	104.5lit/min@2400 rpm @11.0 kPa
Type Articulation	Center Pivot	Center Pivot	Center Pivot	Center Pivot	Center Pivot	Non Center Pivot	Non Center Pivot
Loader Hydraulic System							
Type	Closed, Positive Air Pressurized	Closed, Positive Air Pressurized	Closed, Positive Air Pressurized	INA	Sealed	Closed Pressurized	Closed Pressurized
Cylinders - Lift	2=114 x 645 mm	2=114 x 645 mm	2=114 x 645 mm	2=102 x 606 mm	2=108 x 780 mm	2=101.6x680mm	2=101.6x680mm
Cylinders - Bucket	2=76 x 775 mm	2=76 x 775 mm	2=76 x 775 mm	2=76 x 555 mm	2=102 x 422 mm	2=88.9x655.3mm	2=88.9x655.3mm
Pump Type	Dual Stage Gear	Dual Stage Gear	Dual Stage Gear	Dual Stage Gear	INA	Gear	Gear
Pump Capacity	129lit/min@2200 rpm @15.2 kPa	129lit/min@2200 rpm @15.2 kPa	129lit/min@2200 rpm @15.2 kPa	85 lit/min @2200 rpm @17.2 kPa	126lit/min@2200 rpm @6.8 kPa	104.5lit/min@2400 rpm @11.0 kPa	104.5lit/min@2400 rpm @11.0 kPa
Control Valve	2 Spool	2 Spool	3 Spool	2 Spool	2 Spool	2 Spool	2 Spool
Raise Time	5.5 sec.	5.5 sec.	6.1 sec.	6.0 sec.	6.0 sec.	5.8 sec.	5.8 sec.
Lower Time	4.0 sec.	4.0 sec.	2.4 sec.	3.5 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Dump Time	1.7 sec.	1.7 sec.	2.0 sec.	1.3 sec.	1.2 sec.	1.6 sec.	1.6 sec.

INA - Information Not Available.

*Tires used to calculate operating information and dimensions.

**Equipped with optional rear ctw.

***Rear tires filled with CaCl₂.

Fiat Allis 345B	Ford A-62	I.H. 510B	John Deere 444C	Kobelco LK300	Owatonna 880	Terex 22C / 72-15	Trojan 1500C	
4915 kg**	5044 kg**	—	—	—	—	—	5186 kg**	5186 kg**
4732 kg**	4910 kg**	4062 kg**	5105 kg	4200 kg	3629 kg***	3400 kg @37°	—	—
—	4765 kg**	—	—	—	—	—	—	—
INA	INA	5566 kg Carry Position	8255 kg	INA	INA	INA	INA	INA
INA	INA	INA	3425 kg	INA	3402 kg	5500 kg	INA	INA
4902 mm	4547 mm	4928 mm	4877 mm	4880 mm	4724 mm	4880 mm	5461 mm	5461 mm
7661 kg**	8460 kg**	6599 kg**	8308 kg	6450 kg	6804 kg***	6200 kg	7471 kg**	7471 kg**
.96 m³	1.15 m³	.96 m³	1.15 m³	INA	INA, But	1.0 m³	1.15 m³	1.15 m³
2733 mm	2794 mm	2640 mm	2580 mm	INA	Owatonna Offers	2680 mm	2743 mm	2743 mm
INA	INA	INA	INA	INA	One in Their	INA	INA	INA
1156 mm	930 mm	930 mm	847 mm	INA	Price List	680 mm	838 mm	838 mm
1705 mm	INA	1320 mm	INA	INA		INA	1346 mm	1346 mm
4076 kg	7711 kg	6314 kg	6632 kg	INA		5900 kg	6986 kg	6986 kg
4930 kg**	5327 kg**	4546 kg**	4917 kg	INA		3400 kg	4738 kg**	4738 kg**
4342 kg**	4683 kg**	—	—	INA		3000 kg @37°	4312 kg**	4312 kg**
4171 kg**	4549 kg**	3865 kg**	4205 kg	INA		—	—	—
—	4404 kg**	—	—	INA		—	—	—
7666 kg**	8811 kg**	6923 kg**	8732 kg	INA	—	6600 kg	7861 kg**	7861 kg**
2965 mm	3120 mm	3100 mm	3030 mm	2960 mm	2921 mm	2820 mm	3073 mm	3073 mm
1778 mm	1740 mm	1820 mm	1720 mm	1750 mm	1702 mm	INA	1753 mm	1753 mm
2207 mm	2172 mm	2290 mm	2170 mm	2190 mm	2134 mm	1750 mm	2172 mm	2172 mm
380 mm	381 mm	410 mm	394 mm	400 mm	406 mm	530 mm	305 mm	305 mm
5516 mm	5791 mm	5480 mm	5791 mm	5600 mm	5550 mm	5400 mm	5766 mm	5766 mm
2438 mm	2616 mm	2438 mm	2400 mm	2440 mm	2083 mm	2200 mm	2565 mm	2565 mm
Hydrostatic	Hydraulic Power	Hydrostatic	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power	Hydraulic Power
Gear	Gear	Gear	Piston	INA	INA	Gear	Gear	Gear
2=76 x 493 mm	2=76 x 430 mm	2=76 x 411 mm	INA	2=50 x 390 mm	INA	2=60 x ? mm	2=76 x 305 mm	2=76 x 305 mm
44 lit/min @2500 rpm @16.2 kPa	49.2lit/min@2100 rpm @17.4 kPa	INA	78 lit/min @1800 rpm @13.8 kPa	60 lit/min @2400 rpm @15.0 kPa	45.4lit/min@2450 rpm @11.0 kPa	48 lit/min @2500 rpm @15 kPa	76 lit/min @2500 rpm @6.8 kPa	76 lit/min @2500 rpm @6.8 kPa
Center Pivot	Center Pivot	Center Pivot	Non Center Pivot	Center Pivot	Non Center Pivot	Center Pivot	INA	INA
Closed/Pressure & Vacuum Relief	Pressurized	Closed with Pressure Control	INA	Closed and Pressurized	INA	INA	Closed Pressurized	Closed Pressurized
2=102x798 mm	2=114x669 mm	2=102x559 mm	2=133x565 mm	2=100x518 mm	INA	2=100x600mm	2=121x616 mm	2=121x616 mm
2=76 x 914 mm	1=140x684 mm	1=102x445 mm	1=133x642 mm	2=70 x 620 mm	INA	2=75x510 mm	1=121x730 mm	1=121x730 mm
Gear	Gear	Gear	Gear	Gear	Gear	Gear	Gear	Gear
114lit/min@2500 rpm @16.2 kPa	128.8lit/min@2100 rpm @17.4 kPa	93 lit/min @2500 rpm @20.7 kPa	151lit/min@2400 rpm @4.14 kPa	76 lit/min @2400 rpm @21.0 kPa	105.9lit/min@2450 rpm @11.0 kPa	96 lit/min @2500 rpm @18 kPa	129 lit/min @2500 rpm @6.8 kPa	129lit/min@2500 rpm @6.8 kPa
2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	2 Spool	3 Spool	3 Spool
6.5 sec.	6.0 sec.	5.9 sec.	5.8 sec.	6.0 sec.	7.0 sec.	6.0 sec.	6.2 sec.	6.2 sec.
3.4 sec.	3.2 sec.	4.5 sec.	3.7 sec.	2.4 sec.	5.0 sec.	3.5 sec.	4.5 sec.	4.5 sec.
2.0 sec.	1.3 sec.	1.8 sec.	1.6 sec.	1.6 sec.	2.5 sec.	1.0 sec.	2.9 sec.	2.9 sec.



Note: All Case specifications are stated in accordance with ICED Definitions or SAE Standards or Recommended Practices, where applicable.

Important

J I Case Company reserves the right to change Case specifications without notice and without incurring any obligation relating to such changes.

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