

CUSTOM PRODUCT BY CATERPILLAR

140**G**

ALL WHEEL DRIVE MOTOR GRADER

140G All Wheel Drive Motor Grader, includes the standard 140G arrangement plus All Wheel Drive

modifications.

At 2200 RPM:

Normal Operation

1-2 Gears112 kW/150 HP 3-6 Gears134 kW/180 HP

Heavy Duty Operation (All Wheel Drive) All Gears......134 kW/180 HP

Note: For standard specifications and features, refer to 140G specification sheet. Machine shown may include optional equipment.

The 140G All Wheel Drive improves motor grader performance in traction limited applications through:

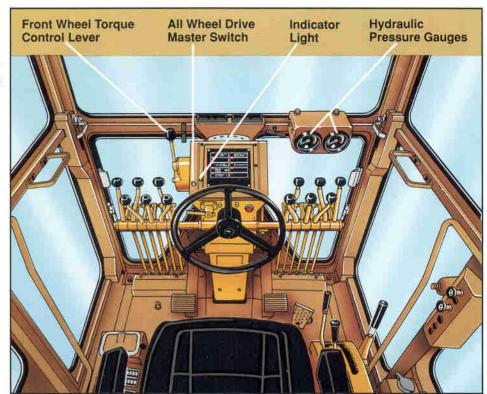
- High working speeds up to 25.7 km/h/16 MPH for snow
- Increased ditch cutting and front end slope control
- Improved steering, less front end drift, and improved side draft control

A manual lever allows the operator to vary front wheel torque to match operating conditions. The front wheel drive system operates through fifth gear; freewheels in sixth gear.



SPECIFICATIONS

- The front wheel drive system is activated by the on/off switch.
- A light on the console reminds the operator that the system is on.
- The manual control lever allows the operator to adjust the hydraulic pressure which controls wheel torque.
- Gauges let the operator know precisely how much pressure is going to the front wheels.





Engine

At 2200 RPM:

Normal Operation.		
Gears 1-2112	kW/150	HP
Gears 3-6134		
All Wheel Drive:		



Weight (approximate)

Basic operating weight includes lubricants, coolant, full fuel tank, operator, 3658 mm/12' blade with manual sideshift, 14.00-24, 10 PR (G-2) traction-type tires, and low profile ROPS cab.

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Weight on front wheels	5630	kg/12,400	lb
Weight on rear wheels10	440	kg/23,000	lb
Total Weight16	070	kg/35,400	lb

Add weights of additional equipment from Attachment Selection list of standard 140G specification sheet to obtain total equipped operating weight.



Wheels

Front rim and wheel assemblies are noninterchangeable. Tubeless tires, six 14.00-24, 10 PR (G-2) traction-type.

Optional wheels: 254 mm X 610 mm/10" X 24" and 360 mm X 635 mm/14" X 25".

Hydraulic System

The front wheel drive system uses the same hydraulic tank as the implement system. A 100 cm³/6.1 in³ variable displacement, axial piston pump drives a 1640/655 cm3 / 100/40 in3 low speed, high torque motor in each wheel. Flow divider valves ensure both wheel motors turn at all times.

maintaining tractive effort to both front wheels.

In gears one through three, the wheel motors operate at 100% displacement, providing high torque for big blade loads. In gears four and five, the wheel motors operate at 40% displacement providing a high speed range. In sixth gear the motors freewheel, then reengage when the system is downshifted. Concise control of the front drive system, through the manual control lever, allows the operator to match front wheel torque to every specific job situation.

Gear	1	2	3	4	5	6
km/h	3.9	6.2	9.8	16.2	26.0	41.0
MPH	2.4	3.9	6.1	10.0	16.1	25.5
Wheel Motor Di	splace	ement				
cm ³	1640	1640	1640	655	655	285
in³	100	100	100	40	40	**

*Freewheel

*See hydraulic systems chart on next page.

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Optional Equipment				-	
	Kg	Lb		Kg	Lb
Air Conditioner, complete. Includes			Guard (transmission)	177	391
heater and pressurizer, plus 75 amp			Heater, cab (includes pressurizer)	34	76
alternator. (Condenser mounted on rear face of cab)	133	294	Hydraulic Systems	*	aje .
		39	Lights:		
Air Dryer	18		Work lights (2 front, 2 center)	6	13
Alternator (75 amp)	5	11	Cab directional and headlights	9	20
Blades:			Cab directional, headlights and bar-mounted flood	13	28
Hydraulic sideshift; With tip control			Bar directional and headlights	9	28 20
With tip control 4.3 m/14'	362	799	Warning light (rotating beacon)	3	6
3.7 m/12'	288	635	Push Plate (front-mounted)	511	1,127
Without tip control			Scarifier:	ULL	1,14.
4.3 m/14'	265	585	V-type (11 teeth)	814	1,795
3.7 m/12'	191	421	Straight-type (17 teeth)	23	50
4.0 m/13' (requires 8W2402 or 8W2403 4.0 m X 686 mm X 25 mm/	.)		Seat (shock dampening)	59	130
4.0 m × 686 mm × 25 mm/ 13' X 27" X 1"	45	100	, and the second of the second	99	190
4.0 m X 610 mm X 25 mm/	30	100	Starting Aids: Engine coolant heater	ï	9
13' X 24" X 1"	36	80	Starting System	1	3
Blade Float (hydraulics)	30	66	(low-temperature)	95	209
Independent right-hand/		00	Steering System (supplemental)	63	139
left-hand	34	75			
Blade Lift Accumulator	110	243	Tachometer (engine speed)	3	7
Cab, ROPS (full-height)	54	120	Tires (optional): 14.00 X 24		
The second of th	9	20	14.00 X 24 12 PR (G-2)	41	90
Circle Drive Slip Clutch	ð	20	RL-2F or XGL	343	756
Cutting Edges:	70	101	17.5 X 25 (require 3Z4877 wheel rims)	0.0	• • •
For 4.3 m/14' blade For 3.7 m/12' blade	73 67	161 148	12 PR (L-2)	95	209
	01	140	RL-2F or XGL	309	680
Defroster (fan): Front window	2	4	Tires (omission)	-512	-1,128
Rear window	2	4	Vandalism Protection	8	19
	det.	-74	Wheel Rims, 356 mm/14" (set of six)	9	***
Differential (tandem drive train with lock-unlock)	43	95	In place of standard		
			254 mm/10" rims	176	387
End Bits	11	24	Wiper (rear window):		300
Engine Compartment Doors	110	242	Full-height cab	4	8
Fuel Tank			Standard low-profile cab	4	8
(378 6 liter/100 gal capacity)	91	200	TO A STREET CONTROL OF THE TRANSPORT OF THE STREET CONTROL OF THE	(1)	0.000

Gauge (fuel level):

(378.6 liter/100 gal capacity)

Standard 283.9 liter/**75 gal** tank Custom 378.6 liter/**100 gal** tank

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Hydraulic Systems (Include valves and operating linkage.)

Side Shift		Front Scarifier	Plow/Dozer	Rear Ripper	Angle Dozer	Snow Wir	ng (valves)	System Number	Wei	Weight*	
	Tip				(High Flow)	Nrml. Flow	High Flow		kg	lb	
								8W2394	19	41	
								8W2411	40	88	
								8W2395	29	63	
						2		8W2389	51	112	
						2		8W2390	61	135	
								3Z4846	50	110	
						2		3Z4830	54	119	
								3Z4828	32	70	
						1	1	3Z4594	51	112	
						3		3Z4833	60	133	
						2		3Z4829	67	148	
						1	1	3Z4831	67	148	
								3Z4851	48	106	
								3Z4837	41	91	
								3Z4847	58	127	
						2	1	3Z4854	57	125	
								3Z4838	42	93	
								3Z4848	36	74	
							P. C.	3Z4885	58	127	
						1	1	3Z4598	60	133	
								3Z4906	29	65	
						3		374947	70	154	

^{*}Change in operating weight.

NOTE: Machine can be equipped with one system only.