



CUSTOM PRODUCT BY CATERPILLAR

# 140G

## CAT® ALL WHEEL DRIVE MOTOR GRADER

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

- **Horsepower** — increased to 134 kW (180 HP).
- **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.

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

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**At 2200 RPM:**

**Normal Operation**

1-2 Gears .....	112 kW (150 HP)
3-6 Gears .....	134 kW (180 HP)

**Heavy Duty Operation (All Wheel Drive)**

All Gears .....	134 kW (180 HP)
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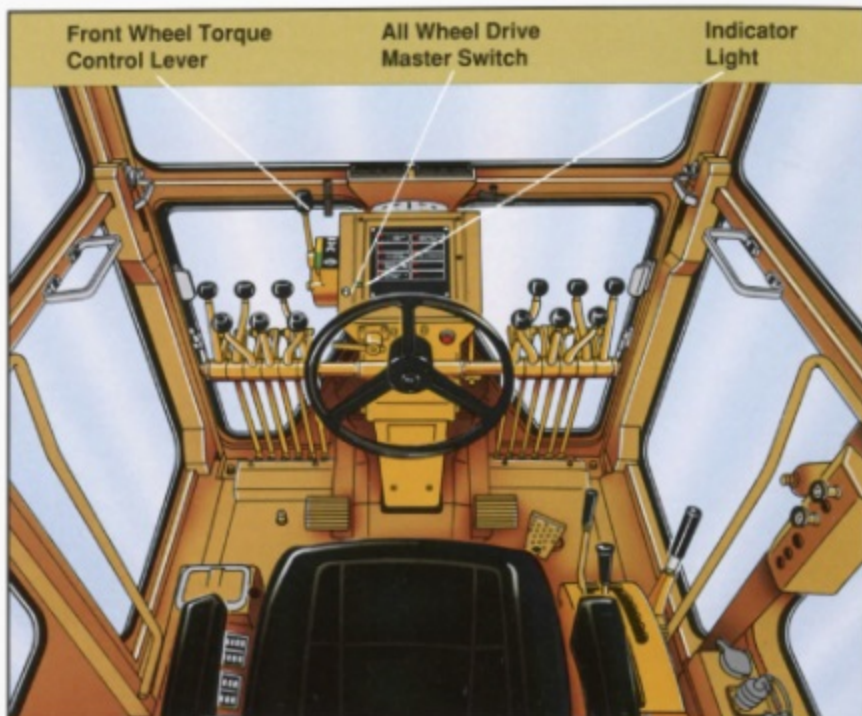
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Note: For standard specifications and features, refer to 140G specification sheet AEHQ3809. Machine shown may include optional equipment.



# 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.



## Engine

Flywheel Power @ 2200 RPM:

Normal Operation:

Gears 1-2 .....112 kW (150 HP)  
Gears 3-6 .....134 kW (180 HP)

All Wheel Drive:

Gears 1-6 .....134 kW (180 HP)

This engine conforms to the standards listed in the 140G specification sheet AEHQ3809.

## Weight (approximate)

Operating weight includes lubricants, coolant, full fuel tank, operator, 4267 mm (14') blade with hydraulic sideshift and tip, differential with lock/unlock control, 14.00-24, 10 PR (G-2) traction-type tires, and low profile ROPS cab.

Weight on front wheels.....4959 kg (10,932 lb)  
Weight on rear wheels.....9955 kg (21,948 lb)  
**Total Weight**.....14 914 kg (32,880 lb)

Add weights of additional equipment from the optional equipment list on page 3.

## Wheels

Front rim and wheel assemblies are non-interchangeable. Tubeless tires, six 14.00-24, 10 PR (G-2) traction-type. Multi-piece rims, 254 mm x 610 mm (10" x 24").

Optional wheels: 360 mm x 635 mm (14" x 25"), for 17.5 x 25 tires.

## Hydraulic System

The front wheel drive system uses the same hydraulic tank as the implement system. A 100 cm<sup>3</sup> (6.1 in<sup>3</sup>) variable displacement, axial piston pump drives a 1640/655 cm<sup>3</sup> (100/40 in<sup>3</sup>) 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 re-engage 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 Displacement

cm <sup>3</sup>	1640	1640	1640	655	655	*
in <sup>3</sup>	100	100	100	40	40	*

\*Freewheel