



CAT

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VHP185

140H



CAT



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CATERPILLAR

TFC
45

140H



IR Ingersoll Rand
DD-90

140H

Motor Grader

CAT[®]



Standard Version

Cat[®] 3306 turbocharged diesel engine with
Engine Power Management

Gears 4 - 8	138 kW	185 hp
Gears 1 - 3	123 kW	165 hp
Blade width	3658 mm	12 ft

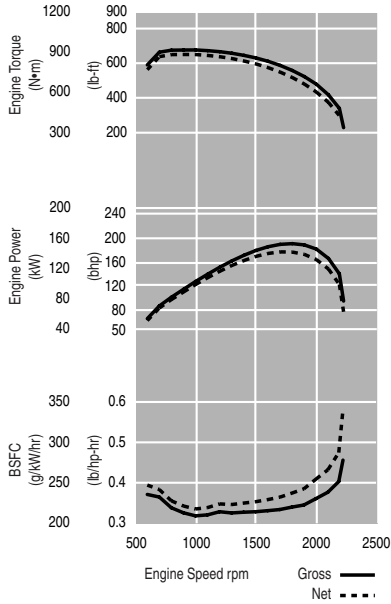
Operating weights (approximate)

(Equipped with hydraulic side shift and tip,
high profile ROPS cab and differential with lock/unlock)

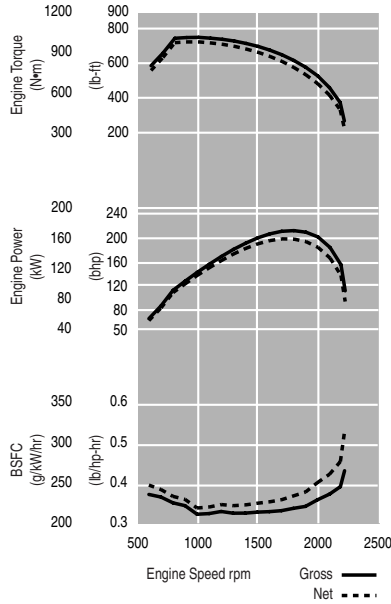
On front wheels	4259 kg	9389 lb
On rear wheels	10 402 kg	22,932 lb
Total machine	14 661 kg	32,321 lb

140H Motor Grader

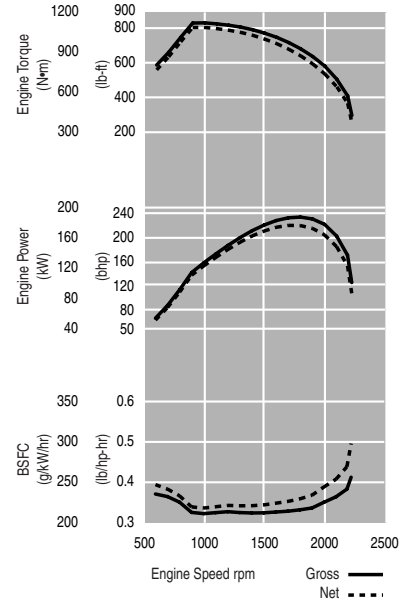
Base Gears 1 - 8
VHP Gears 1 - 3
VHP Plus Gears 1 - 3



Gears 4 - 8
Gears 4 - 6



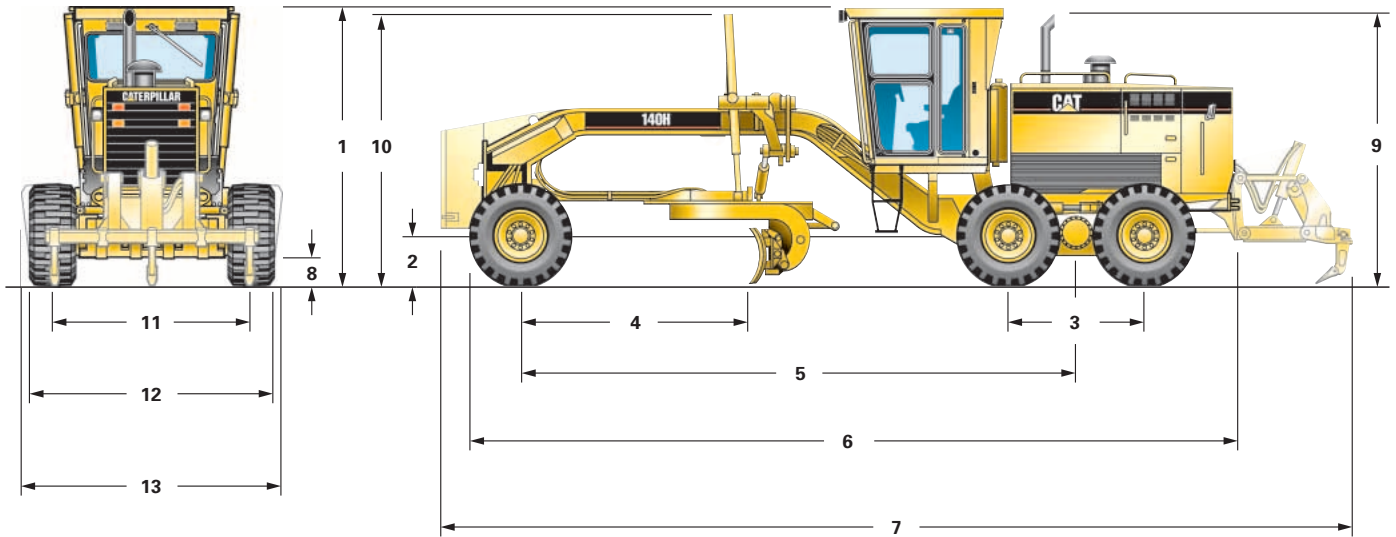
Gears 7 - 8



140H Motor Grader

Dimensions

All dimensions are approximate.



1	Height - low profile cab	3131 mm	123 in
	- high profile cab	3356 mm	132 in
	- no cab	3103 mm	122.2 in
2	Height to axle	600 mm	23.6 in
3	Length - between tandem axles	1523 mm	60 in
4	Length - front axle to moldboard	2561 mm	100.8 in
5	Length - front axle to mid tandem	6169 mm	242.9 in
6	Length - front tire to end of rear frame	8713 mm	343 in

7	Length - counterweight to ripper	10 097 mm	398 in
8	Ground clearance at trans. case	344 mm	13.5 in
9	Height to exhaust stack	3103 mm	122.2 in
10	Height to top of cylinders	3028 mm	119.2 in
11	Width - tire center lines	2077 mm	81.8 in
12	Width - outside rear tires	2443 mm	96.2 in
13	Width - outside front tires	2464 mm	97 in

140H MOTOR GRADER WITH BLADE



Blade

Heat treated moldboard rails, tough-hardened cutting edge and end bits, and large diameter bolts assure reliability and longer service life.

Blade Positioning

The blade linkage design provides extensive moldboard positioning, most beneficial in mid-range bank sloping and in ditch cutting and cleaning.

Blade Angle

A long wheelbase allows the operator to obtain an aggressive moldboard angle. This aggressive angle permits material to roll more freely along the blade, which reduces power requirements. This is particularly helpful in handling very dry materials, cohesive soils, snow and ice.

Circle Construction

One-piece forged circle stands up to high stress loads. Raised wear surfaces prevent circle teeth wear against the drawbar. The 64 uniformly spaced circle teeth are flame cut and heat induction hardened to resist wear, and the circle is secured to the drawbar by six support shoes for maximum support.

Replaceable Wear Items

Tough, durable nylon composite wear inserts are located between the drawbar and circle, and between the support shoes and circle. This sacrificial wear system helps keep components tight for fine grading and allows easy replacement. These inserts reduce rotational friction resulting in extended component life.

Circle Drive Slip Clutch

The standard circle drive slip clutch protects the drawbar, circle and moldboard from shock loads when the blade encounters immovable objects. It also reduces the possibility of the grader making abrupt directional changes in poor traction conditions.

Drawbar Construction

The Y-frame drawbar is constructed of two solid beams for high strength and optimum durability, as well as precise blading control.