

Global Version

Cat® 3196 ATAAC Engine	
Net Power (all gears)	198 kW/265 hp
Variable Horsepower Arrangement	
gears 1-3	198 kW/265 hp
gears 4-8	213 kW/285 hp

Gross Vehicle Weight	
Base	24 740 kg
front wheels	6980 kg
rear wheels	17 760 kg
Maximum	31 590 kg
front wheels	8850 kg
rear wheels	22 750 kg
Moldboard Blade Width	4877 mm

16H Motor Grader

The 16H blends productivity and durability to give you the best return on your investment.

Engine

Matched Caterpillar components deliver smooth, responsive performance and reliability. The 3196 ATAAC engine offers superior lugging performance, fuel efficiency and reliability. The direct drive, power shift transmission features smooth, on-the-go shifting. pg. 4

Power Train

The power shift transmission takes full advantage of the powerful 3196 engine. The Variable Horsepower option uses specific torque curves for each gear range for optimum performance. Dual air system and multi-disc oil brakes assure reliable braking control. **pg. 5**

Hydraulics

The load-sensing hydraulic system lowers power consumption and system heat. The advanced PPPC control valves provide low lever effort, balanced flow and consistent cylinder speeds for outstanding blade control. Blade float is incorporated into the blade lift valves. **pg. 6**

Operator's Station

Low effort blade controls, electronic throttle control, EMS III monitoring system, and improved ventilation provide world-class operator control and comfort. Improved visibility to the front and rear increase operator confidence and productivity. pg. 10

Environmentally Responsible Design

New engine arrangements and operator station designs reduce emissions and meet current and anticipated regulations for interior and exterior sound levels, emissions, exhaust. pg. 12

Matched and balanced components.

The Cat® 3196 engine, direct-drive power shift transmission and load-sensing hydraulics are designed to work together to deliver top productivity in all applications.

Superior visibility, control layout and operating ease.

The operator is the single most important factor in maintaining high productivity throughout the work day. By offering the best operator's station in the industry, Caterpillar helps operators achieve peak performance.



✓ New feature

Structures

The 16H frame is designed and built to exceed the expectations of the customer. **pg. 7**

Drawbar, Circle, Moldboard

Versatile moldboard positioning and a long wheelbase improve material handling. Rugged construction and replaceable wear parts minimize operation costs. **pg. 8**

Serviceability

✓ Caterpillar® re-engineered inspection and service points, grouping them into a convenient left-hand side, ground level 'service center.' Ground level fueling and extended engine and hydraulic oil change intervals help minimize downtime. pg. 9

Customer Support

Your Cat dealer offers a range of services that help you operate longer with lower costs. **pg. 13**



Cat 3196 ATAAC Engine

The six-cylinder, direct injection, turbocharged and air-to-air aftercooled engine is built for power, reliability, low maintenance, excellent fuel economy and low emissions.



Cat 3196 ATAAC Engine.

The innovative 3196 diesel engine delivers large-engine performance from a compact engine design. The six-cylinder engine is turbocharged and air-to-air aftercooled (ATAAC). With high displacement and low rated speed, this engine provides excellent fuel economy and durability that can significantly reduce operating costs.

Improved Torque. Power curves customized for the 16H increase peak torque for higher ground speeds and enhanced productivity. Rimpull has been increased in all gears for greater productivity.

Variable Horsepower (VHP).

VHP option automatically increases horsepower in higher gears when the machine can use it. In lower gears where traction is limited, horsepower is limited, reducing wheel slip and conserving fuel.

Lugging Performance. High torque output and torque rise makes the 3196 very responsive. Its superior lugging maintains consistent grading speeds without the need to downshift.

Advanced fuel system. The advanced Diesel Engine Module (ADEM III) fuel system is a Caterpillar exclusive electronic control module which provides improved engine response, performance, fuel efficiency, troubleshooting, diagnostics, and reduced emissions. The ADEM III electronic engine control improves altitude capability to 3300 meters without deration.

Turbocharged and Air-to-air aftercooled.

Turbocharger packs more dense air into the cylinders for more complete combustion and lower emissions improving performance and engine efficiency. These benefits are especially useful at high altitudes. Air-to-air aftercooler reduces smoke and emissions by providing a cooler inlet air for more efficient combustion. This also extends the life of the piston rings and bore.

Extended Engine Life. The large bore-stroke design and conservative power rating minimize internal stresses and increase component life. The low engine speeds reduce engine wear and sound levels.

Hydraulic Demand Fan. The hydraulic demand fan control automatically adjusts cooling fan speed according to engine cooling requirements. This system reduces demands on the engine, putting more power to the ground and improving fuel efficiency.

Caterpillar engine oil. It is formulated to optimize engine life and performance and is strongly recommended for use in Cat diesel engines. The engine oil change interval is increased to 500 hours.

Factory remanufactured parts. A large choice of factory remanufactured parts and dealer proposed repair options increase machine availability and reduce total repair costs.

Emissions Compliant. The new 16H has reduced NOx, hydrocarbon, and particulate emissions. The Cat 3196 meets or exceeds all U.S. EPA Tier II and EU Stage II emissions control standards worldwide.

Power Train

Matched Caterpillar components deliver smooth, responsive performance and reliability.

Power Shift Transmission. Designed and built specifically for Cat motor graders, the rugged transmission provides on-thego, full-power shifting as well as inching capability.

Direct Drive. Delivers superior fuel efficiency and "feel" of blade loads, material hardness and ground speed.

Gear Selections. Eight forward speeds and eight reverse speeds give the operator a wide operating range. With four gears selections below 11.6 km/h, the operator can precisely match working speeds to job conditions for maximum productivity in earthmoving and mining applications. A single lever controls direction, speed and the parking brake.

Inching Pedal. Delivers precise control of machine movements in any gear with low pedal effort and excellent modulation, critical in close-quarter work or finish grading. A new pedal design and location improves modulation and operator comfort.

Dual Certified Air Tanks. Supply braking capacity to each side of the machine. This system ensures secondary braking capability in the event a failure occurs in a single brake line. The dual air system also has a large reserve for stalled-engine braking.



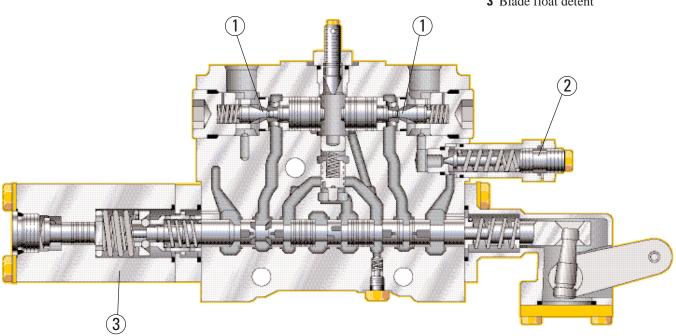
Brakes. Caterpillar multi-disc brakes offer a large surface area for dependable, extended-life braking. The air-actuated service brakes, located in each of the four wheel spindle housings, are sealed, adjustment free, and lubricated and cooled by tandem housing oil. The parking/emergency brakes, located in the transmission on the output shaft, are spring actuated and air pressure released. When engaged, they neutralize the transmission and lock the wheels on any surface.



Hydraulics

Balanced hydraulics provide predictable, precise blade response.

- 1 Lock valve
- 2 Line relief valve
- 3 Blade float detent



Load Sensing Hydraulics. A load sensing variable displacement pump and the advanced proportional priority pressure-compensating (PPPC, or "triple-PC") hydraulic valves provide superior implement control and enhanced machine performance and efficiency. Continuously matching hydraulic flow and pressure to power demands creates less heat and reduces power consumption.

Implement Control Valves. PPPC valves have different flow rates for the head and rod ends of the cylinder.

This insures consistent extension and retraction properties for each cylinder, and improves operator 'feel' and system response. All control valves use lock valves to maintain blade settings.

Line relief valves protect cylinders from excessive pressure.

Balanced Flow. Hydraulic flow is proportioned to ensure all implements operate simultaneously. If demand exceeds pump capacity, all cylinders are reduced by the same ratio. The result is improved productivity in virtually any application.

Blade Float. Blade float, incorporated into the blade lift control valves, allows the blade to move freely under its own weight. By floating both cylinders, the blade can follow the contours of the road when removing snow. Floating only one cylinder permits the toe of the blade to follow a hard surface while the operator controls the slope with the other lift cylinder.

Independent Oil Supply. Large separate hydraulic oil supply prevents crosscontamination and provides proper oil cooling, which reduces heat build-up and extends component life.

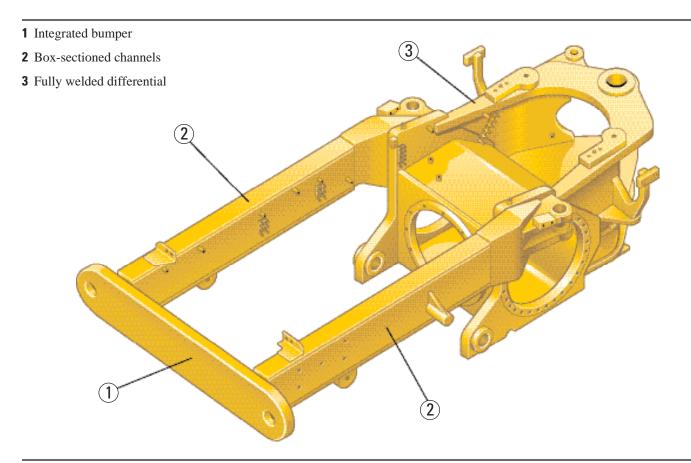
Heavy Duty XT Hose. Caterpillar hose technology allows high pressures for maximum power and reduced downtime, and intelligent routing minimizes exposure to damage.

Optional Hydraulic Lockout.

Mechanically locks all moldboard, machine, and attachment control levers during machine roading. This prevents implements from being accidentally engaged when the motor grader is travelling down the road.

Structures

The 16H frame is designed for versatility and durability.

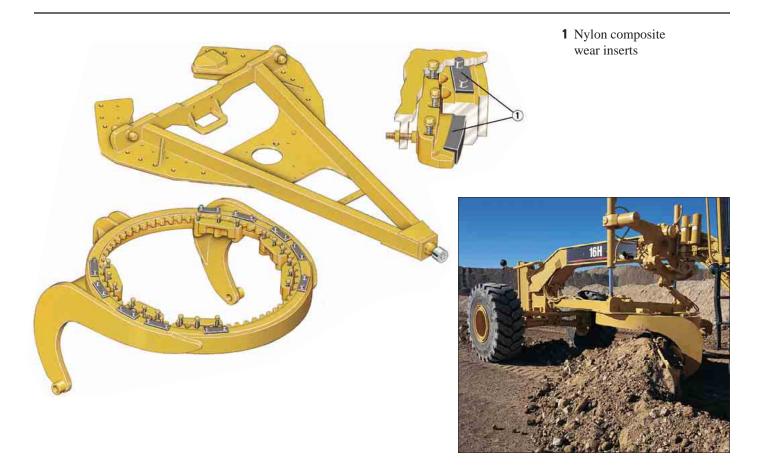


Integrated Bumper. The integrated bumper ties the rear frame together into a cohesive unit, to handle the loads possible with the new 3196 power train. This is especially important in ripping applications.

Rear Frame. Rear frame has two boxsectioned channels integral with fully welded differential case for a solid working platform. **Front Frame.** Continuous top and bottom plate construction provides consistency and strength. The flanged box section design removes welds from high stress areas, improving reliability and durability, and increasing resale value for the customer.

Drawbar, Circle, Moldboard

Every component is designed for maximum productivity and durability.



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 midrange 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 and cohesive soils.

Circle Construction. A one-piece forged circle is built to stand up to high stress loads. To resist wear, teeth are induction-hardened in the critical areas. For maximum support, the circle is secured to the drawbar by six support shoes.

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 A-frame drawbar uses box-section design for high strength and optimum durability. The drawbar bottom face is machined to provide accurate adjustment and precise blading.

Blade Lift Accumulators.

These standard blade lift accumulators absorb vertical shocks encountered when the moldboard contacts immovable objects; especially useful in rough grading and rocky areas.

Serviceability

Re-engineered inspection and service points reduce downtime and operating costs.

Service Center. A 'Service Center' on the left-hand side provides easy, centralized access to most check and maintenance points. Routine inspection and service are faster and easier, for better machine availability and lower operating costs.

- Large hinged doors provide easy access to the adjacent engine and maintenance service compartments.
- Engine and hydraulic oil checkpoints, coolant gauges, and air filters
- Spin-on filters for oils, fuel, coolant
- Remote lubrication points, purge valves and ecology drain lines
- Fuse panel with new automotive style fuses located inside cab
- Sample ports for engine, hydraulic, transmission fluids, coolant and fuel, encourage preventive maintenance and diagnostics like the S•O•SSM program.

Fuel Tank. The 492 liter, ground level fuel tank allows longer work shifts and reduces refueling times. A fuel tank sediment drain enables the operator to remove sediment accumulation, reducing the risk of fuel system damage.

Extended Oil Change Interval. Operate a full 500 hours between engine oil and filter changes, and 4000 hours between hydraulic oil changes. This reduces downtime and operating expense.

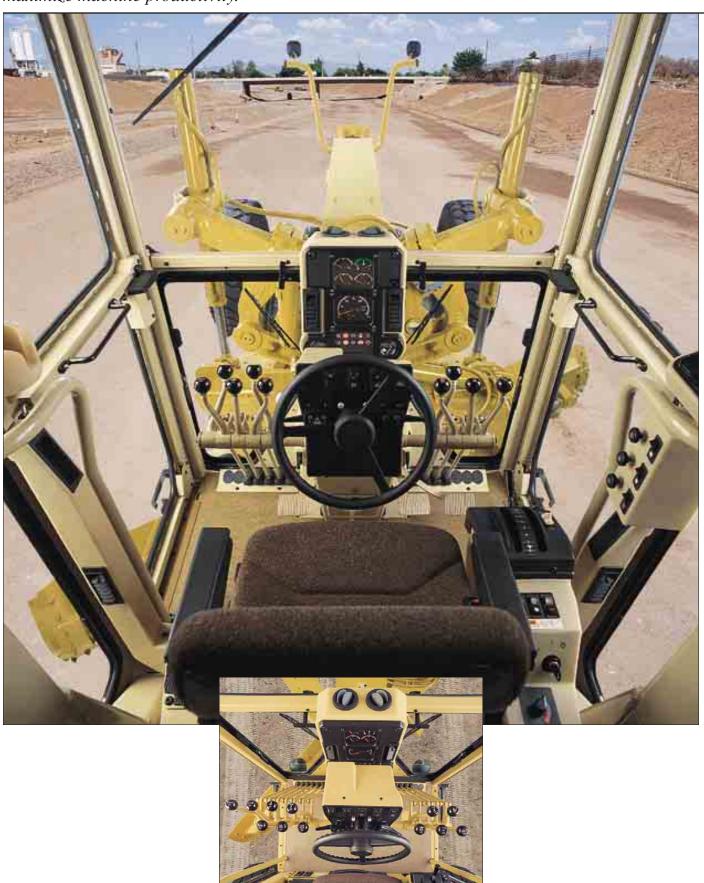
Cat XT Hose. Caterpillar XT hose technology allows high pressures for maximum power and reduced downtime, and intelligent routing minimizes exposure to damage.



O-Ring Face Seals. Cat O-ring face seals assure rock-solid connections that maintain pressure and reduce oil leaks. Intelligent hose routing minimizes exposure to damage, increasing hose life and enhancing reliability.

Radiator Cleanout Access. Radiator clean-out access gives the operator the ability to clear away debris and other materials that build up around the radiator. This ensures that the radiator functions properly keeping the engine cool and increasing component life.

Operator's StationThe 16H includes innovative changes to improve operator efficiency and maximize machine productivity.



Comfort and Convenience. Comfort and convenience are designed into every feature of the operator's station.

Electronic Throttle Control.

ETC provides easier, more precise, more consistent throttle operation. Two modes on a single switch offer flexibility for varying applications and operator preference. Like cruise control, ETC improves fuel efficiency.

Electronic Monitoring System.

Powerful monitoring and diagnostic capabilities allow more efficient and safer machine operation. The Cat Electronic Monitoring System (EMS III) keeps operators better informed of machine status with:

- Continuous tracking of all critical machine parameters on a dash display
- Warnings/alerts for abnormal conditions
- Retrieval or adjustment of over 200 electronic system parameters using the powerful ET service tool

Controls On Steering Console.

Controls and switches are located on the steering console, shift console and right cab post, all within easy reach. Gauges are located inside the cab, directly in front of the operator.

Backlit Controls. Rocker switches and transmission shifter are backlit for nighttime operation.



Optional Air Conditioner/Heater.

The optional heater and air conditioner arrangement help create a comfortable work environment. The high-capacity system dehumidifies air and pressurizes the cab, which circulates fresh air and seals out dust. Multiple additional vents evenly distribute air throughout the cab for clear windows and operator comfort.

Suspension Seat. Standard contour series suspension seat features fold-up armrests and a retractable seat belt. The seat can easily adjust for optimal support and comfort. Seat controls are located within easy reach and in plain view.

Fresh Air Filters. Located above each cab door for quick replacement.

Optional 12V Power Port. Available for use with computers, cellular phones or other electronic equipment.

Exceptional Visibility. A redesigned operator's console improves forward visibility. Large side windows allow a clear view of the moldboard heel and tandem tires. A wide rear window and tapered engine hood provide a good view to the rear of the machine. Moving the air dryer and air cleaner, and aligning the precleaner and muffler, improves visibility to the rear of the machine. Operators can work more confidently and efficiently.

Environmentally Responsible Design

Caterpillar builds machines that help you create a better world.



Quiet Cab. With the doors closed, interior sound level is less than 79 dB(A) when tested using ISO 6394 standards. The quiet environment helps keep the operator focused and alert.

Quiet Machine. The sound suppression group lowers exterior sound levels below 109 dB(A), complying with the EU 2000/14/EC sound limit of 111 dB(A). This quiet operation lets the 16H work with minimal disturbance to the surroundings.

Low Emissions. The 16H Motor Grader is even more environmentally friendly than its predecessors with reductions in NOx, hydrocarbon, and particulate emissions. It meets or exceeds all U.S. EPA Tier II and EU Stage II emissions control standards worldwide.

Fuel Efficient. Caterpillar state-of-the-art electronically controlled, unit injection fuel system has high injection pressure for complete fuel combustion, increased fuel efficiency and reduced emissions.

Dry Machine. Lubricant fill points and filters are designed to minimize spillage. O-ring face seals, Cat XT hose and Cat hydraulic cylinders protect against leaks.

Extended Oil Change Interval.

Operate a full 500 hours between engine oil and filter changes, and 4000 hours between hydraulic oil changes. This reduces machine downtime and operating expense, and helps preserve our natural resources.

Ecology Drains. Make regular maintenance easier and help prevent spills when changing fluids.

Ozone Protection. To help protect the earth's ozone layer, air-conditioning units use a refrigerant free of chloroflourocarbons (CFCs).

Customer Support

Cat dealer services help you operate longer with lower costs.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers use a world-wide computer network to find in-stock parts to minimize machine down time. Save money with genuine Cat Reman parts. You receive the same warranty and reliability as new products at substantial cost savings.

Machine Selection. Make detailed comparisons of the machines under consideration before purchase. Cat dealers can estimate component life, preventive maintenance cost, and the true cost of lost production.

Purchase. Look past initial price. Consider the financing options available as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements.

Cat dealers offer a variety of product support agreements, and work with customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your machine investment.



Maintenance Services. Talk to your dealer about the range of available maintenance services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•SSM and Coolant Sampling and Technical Analysis help avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

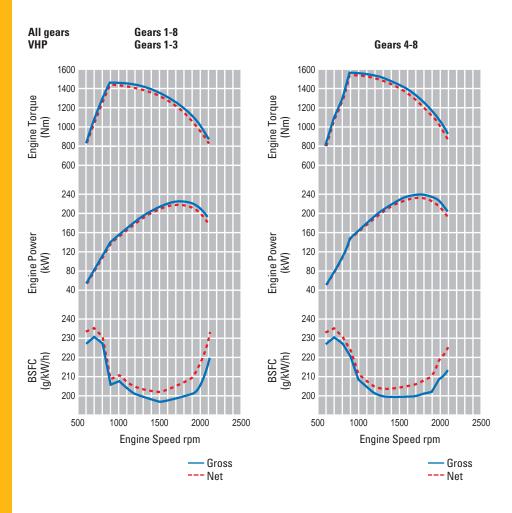
Engine

Cat 3196 ATAAC engine, Variable horsepower (VHP)

Net power	kW	hp
All gears	198	265
VHP		
gears 1-3	198	265
gears 4-8	213	285
Gross power		
All gears	208	279
VHP		
gears 1-3	208	279
gears 4-8	223	299

Displacement	11.9 liters
Bore	130 mm
Stroke	150 mm
Torque rise	50 %
Max torque at 1000 rpm	1550 Nm
Speed at rated power	2000 rpm
Number of cylinders	6
Derating altitude	3300 m
Standard Fan speed	
maximum	1350 rpm
minimum	500 rpm
Standard Ambient Capability	47 C°
High Ambient Fan speed	
maximum	1470 rpm
minimum	500 rpm
High Ambient Capability	50 C°

- The engine is certified according to the EU Directive 97/68/EC, Stage II
- Net power is tested per ISO 9249, and EEC 80/1269 standards in effect at the time of manufacture.
- VHP is optional.
- Net power advertised is the power available at rated speed of 2000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.
- No derating required up to 3300 m altitude. Deration rate of 1% per 300 m above 3300 m.



Power Train

Gears	
Forward	8
Reverse	8
Transmission	Direct drive, power shift
Brakes	
Service	air-actuated, oil-disc
surface are	ea 42 209 cm
Parking	manual, multiple oil-disc
Secondary	air actuated, oil-disc

Hydraulic System

Circuit type Closed center	load sensing
Pump type	axial piston
Pump output at 2100 rpm	254 L/min
Maximum system pressure	24 150 kPa
Standby pressure	3100 kPa

Tandems

Height	648 mm
Width	236 mm
Sidewall thickness	
inner	22 mm
outer	22 mm
Drive chain pitch	63 mm
Wheel axle spacing	1840 mm
Tandem oscillation	
forward	15°
reverse	25°

Operating Specifications

Top Speed	
Forward	48.1 km/h
Reverse	45.7 km/h
Turning radius	
(outside front tires)	8.2 m
Steering range	
left/right	50°
Articulation angle	
left/right	20°
Maximum travel speeds*	
Forward	km/h
1st	4.2
2nd	5.9
3rd	8.0
4th	11.6
5th	17.5
6th	24.6
7th	33.2
8th	48.1
Reverse	
1st	4.6
2nd	5.6
3rd	7.6
4th	11.0
5th	16.6
6th	23.3
7th	31.6
8th	45.7

^{*} at rated rpm with conventional base 18.00-25 12PR tires

Frame

Circle diameter	1822 mm
Drawbar	
height	165 mm
thickness	89 mm
Front-top/bottom plate	
width	356 mm
thickness	29 mm
Front-side plates	
width	324 mm
thickness	14 mm
Front-liner weights	
minimum	231 kg/m
maximum	301 kg/m
Front-section modulus	
minimum	3746 cm ³
maximum	8057 cm ³
Front axle	
ground clearance	660 mm
front wheel lean	18°
oscillation angle	32°
Circle blade beam thickness	50 mm

Moldboard

Blade width	4877 mm
Moldboard height	787 mm
Thickness	25 mm
Arc radius	413 mm
Throat clearance	122 mm
Cutting edge	
width	203 mm
thickness	25 mm
End bit	
width	152 mm
thickness	19 mm
Blade pull*	
max GVW	20 471 kg
base GVW	15 811 kg
Down pressure	
max GVW	15 831 kg
base GVW	12 841 kg

^{*} Blade Pull calculated at 0.9 traction coefficient, which is equal to ideal no-slip conditions, and Gross Vehicle Weight (GVW).

Blade Range

Circle centershift	
right	560 mm
left	690 mm
Moldboard sideshift	
right	790 mm
left	650 mm
Maximum blade position angle	e 90°
Blade tip range	
forward	40°
backward	5°
Maximum shoulder reach	
outside of tires	
right	2311 mm
left	2311 mm
Maximum lift above ground	419 mm
Maximum depth of cut	470 mm

Ripper

Ripping depth, maximum	452 mm
Ripper shank	
holders	7
holder spacing	445-500 mm
Penetration force	10 163 kg
Pryout force	15 323 kg
Machine length increase,	
beam raised	1610 mm

Weights

	kg
Gross Vehicle Weight*	
maximum	31 592
front wheels	8846
rear wheels	22 746
base	24 740
front axles	6982
rear axles	17 758

Base operating weight calculated on standard machine configuration with 18.00-25 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.

Service Refill

Liters
492
46.5
129
55
35
114
121
8
0.9

ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471-1994.
- FOPS (Falling Object Protective Structure) meets ISO 3449-1992 Level II.

Brakes

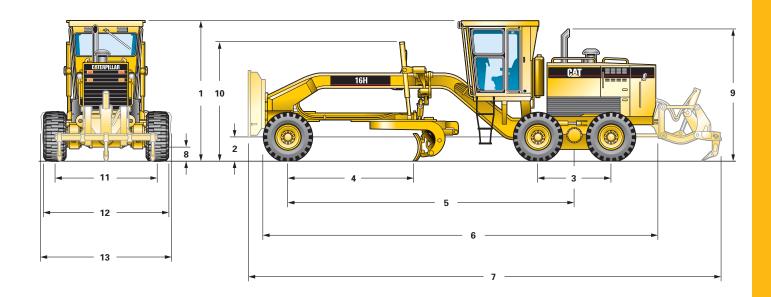
 Brakes meet the standard ISO 3450:1996.

Cab

- The operator sound level measured according to the procedures specified in ISO 6394:1998 is 79 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The labeled sound power level is 109 dB(A) measured according to the test procedures and conditions specified in 2000/14/EC.

Dimensions

All dimensions are approximate. Based on standard machine configuration with 18.00-25 12PR tires.



1	Height	
	low profile cab	3524 mm
	high profile cab	3749 mm
	no cab	3359 mm
2	Height to axle	732 mm
3	Length	
	between tandem axles	1841 mm
4	Length	
	front axle to moldboard	3071 mm
5	Length	
	front axle to mid tandem	6960 mm
6	Length	
	front tire to end of rear frame	9994 mm
7	Length	
	counterweight to ripper	11 623 mm

8	Ground clearance at transmission case	409 mm
9	Height to exhaust stack	3359 mm
10	Height to top of cylinders	3111 mm
11	Width	
	tire center lines	2470 mm
12	Width	
	outside rear tires	2986 mm
13	Width	
	outside front tires	3077 mm

Standard Equipment

Standard and optional equipment may vary. Consult your Caterpillar dealer for details.

Electrical

Alarm, back up

Alternator, 75-amp, sealed Batteries, two low-maintenance,

1300 CCA

Electrical system, 24-V

Lights, stop and tail

Motor, starting

Product Link connection

Operator Environment

Accelerator

Ashtray and lighter

Coat hook

Control console, adjustable

Cupholder

EMS III, operator warning system

Gauges inside the cab

articulation

engine coolant temperature

fuel

voltmeter

brake air pressure, two

Hydraulic controls, load-sensing

articulation

blade lift, right and left with float

position

blade sideshift

blade tip

centershift

circle drive

front wheel lean

Meter, hour, digital

Mirror, wide angle, inside rearview

Mounting bracket, general purpose

Power steering, hydraulic

ROPS cab, sound-suppressed, 79 dB(A),

low profile

Seat, cloth-covered, contour suspension

Seat belt, retractable, 76 mm

Steering wheel, tilt adjustable

Storage area, cooler/lunch box

Throttle control, electronic

Washers and wipers, (3) lower front

windows

Windows, fixed lower front

Powertrain

Air cleaner, dry type, radial seal with service indicator

Air-to-air aftercooler (ATAAC)

Blower fan

Brakes, oil-disc, four-wheel, air

actuated

Demand fan

Differential, lock-unlock

Engine, 3196 ATAAC diesel,

low emissions

Fuel-water separator

Muffler, under hood

Parking brake, multi-disc, sealed and

oil-cooled

Precleaner, automatic dust ejector

Prescreener

Pump drive shaft, "lube for life"

Priming pump, fuel

Sediment drain, fuel tank

Tandem drive

Transmission, 8-speed forward and 8-speed reverse power shift,

direct drive

Other Standard Equipment

Accumulators, blade lift

Antifreeze -35°C

Bumper, rear, integrated, with hitch

Cap locks for hydraulic tank, radiator

access cover and fuel tank, with locks

Circle drive slip clutch

Cutting edges, 203 x 25 mm curved

DH-2 steel

Dual compartment air tanks

Doors, engine compartment, with locks

Drawbar, six shoe with replaceable

nylon composite wear strips

End bits, 19 mm DH-2 steel

Engine shutdown, ground level

Ether starting aid

Frame, articulated, with safety lock

Fuel tank, 492 liters

Horn, air

Moldboard, 4877 x 787 x 25 mm

S•O•SSM ports, engine, hydraulic,

transmission, coolant, fuel Tool box, with lock

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Tires, Rims and Wheels

Partial allowance: 18.00-25 12PR on 13" multi-piece rims

Optional Equipment
With approximate changes in operating weights.

	kg
Air conditioner	92
Air dryer	15
Cab, ROPS, high profile, sound–suppressed	77
Canopy, ROPS, high profile, with rear wall and window	-41
Converter, 25-amp, 24-V to 12-V	5
Covers, metallic, fuel tank	11
Cutting edges, 254 mm 25 mm	59
Engine, VHP	4
Fan, defroster, front and rear	2
Fuel system, fast fill	11
Graderbit system, standard bit type	114
Guard, transmission	98
Heater, engine coolant	2
Heater, with pressurizer	35
Hydraulic arrangements with additional hydraulic	
for rear ripper	7
Hydraulic lockout	2
Instrument panel cover, canopy	4
Lighting systems:	
bar mounted, directional and headlights	20
cab mounted, directional and headlights	9
cab and bar mounted, directional	
headlights and work lights	21
work lights, front and rear	6
warning light, cab or canopy mounted	3
mid-frame	6

	kg
Mirrors, dual inside	_
Mirrors, outside mounted	8
Mirrors, outside, heated	11
Power port, 12–V	2
Push plate, front mounted	587
Radio ready, entertainment	_
Ripper, rear mounted	1951
Ripper, shank/tooth, one	60
Seat, cloth-covered, contour air suspension	_
Seat, vinyl-covered, contour suspension	_
Sound suppression	5
Speedometer/tachometer	1
Steering system, secondary	52
Sunshade, rear window	3
Windows, lower front, opening	3
Windows, sliding side	4
Wiper and washer, rear	7
Wipers, intermittent, front	_
EU Arrangement – The EU Arrangement package with associated attachments is what designates the 16H as a machine destined for EUROPE which meets EU specifications and legal requirements. Dealer supplied equipment is required to meet some specific country	
on–road requirements	23

16H Motor Grader

Featured photos of machines may not always include standard equipment. See your Caterpillar Dealer for available options. Materials and specifications are subject to change without notice.



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