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CATERPILLAR 12H MOTOR GRADER

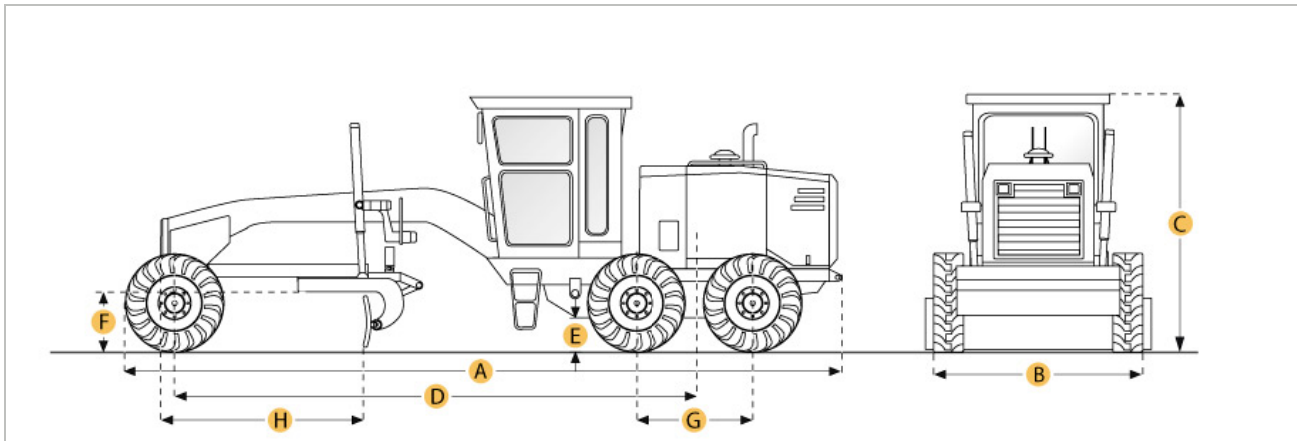
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Selected Dimensions

Dimensions

A. OVERALL LENGTH	28.1 ft in	8571 mm
B. WIDTH OVER TIRES	8 ft in	2440 mm
C. HEIGHT TO TOP OF CAB	10.2 ft in	3107 mm
D. WHEELBASE	20 ft in	6086 mm
E. REAR GROUND CLEARANCE	1.1 ft in	341.5 mm
F. FRONT GROUND CLEARANCE	2 ft in	594 mm
G. TANDEM AXLE WHEELBASE	5 ft in	1523 mm
H. BLADE BASE	8.4 ft in	2575 mm

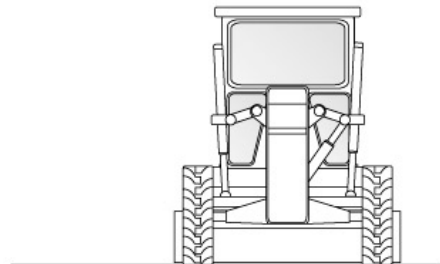
Specification

Engine

MAKE	Caterpillar	
MODEL	C-9 ETA VHP	
NET POWER GEAR 1-2	145 hp	108 kw
NET POWER GEAR 3-4	165 hp	123 kw
POWER MEASURED @	2000 rpm	
NET POWER GEAR 5-6	165 hp	123 kw
NUMBER OF CYLINDERS	6	
NET POWER GEARS 7-8	165 hp	123 kw
MAX POWER	165 hp	123 kw
DISPLACEMENT	537 cu in	8.8 L

Operational

STD OPERATION WEIGHT - FRONT AXLE	8346 lb	3784 kg
STD OPERATION WEIGHT - REAR AXLE	22974 lb	10416 kg
STD OPERATION WEIGHT - TOTAL	31320 lb	14200 kg
MAX OPERATION WEIGHT - FRONT AXLE	13744 lb	6234 kg
MAX OPERATION WEIGHT - REAR AXLE	32074 lb	14549 kg
OIL SYSTEM FLUID CAPACITY	7.1 gal	27 L
MAX OPERATION WEIGHT - TOTAL	45818 lb	20783 kg
FUEL CAPACITY	100 gal	378 L
COOLING SYSTEM FLUID CAPACITY	11.6 gal	44 L
HYDRAULIC SYSTEM FLUID CAPACITY	19.5 gal	74 L
REAR DIFF/FINAL DRIVE FLUID CAPACITY	12.2 gal	47 L
CIRCLE GEARBOX FLUID CAPACITY	1.8 gal	7 L
TANDEM CASE FLUID CAPACITY (EACH)	16.9 gal	64 L
TIRE SIZE	14.00-24 12PR	



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OPERATING VOLTAGE	24 V	
ALTERNATOR SUPPLIED AMPERAGE	75 amps	
Transmission		
TYPE	direct drive power shift	
NUMBER OF GEARS - FORWARD	8	
NUMBER OF GEARS - REVERSE	6	
MAX SPEED - FORWARD	27.4 mph	44 km/h
MAX SPEED - REVERSE	21.6 mph	34.7 km/h
Steering		
ARTICULATION L/R	50 degrees	
TURNING RADIUS	24.3 ft in	7.4 m
Front Axle		
WHEEL LEAN	18 degrees	
OSCILLATION - TOTAL	32 degrees	
GROUND CLEARANCE	2 ft in	594 mm
Hydraulic System		
PUMP TYPE	variable piston	
PUMP FLOW	51.9 gal/min	196 L/min
RELIEF VALVE PRESSURE	3500 psi	24150 kPa
Moldboard		
MOLDBOARD WIDTH	12 ft in	3658 mm
MOLDBOARD HEIGHT	24 in	610 mm
MOLDBOARD THICKNESS	0.87 in	22 mm
MAX DEPTH OF CUT	28.9 in	735 mm
SIDE SHIFT LEFT	20.6 in	524 mm
SIDE SHIFT RIGHT	26 in	660 mm
BLADE PULL AT MAX WEIGHT	28867 lb	13094 kg
BLADE DOWN PRESSURE	23807.7 lb	10799 kg
Circle		
DIAMETER	60.2 in	1530 mm
ROTATION	360 degrees	
SHIFT LEFT	27.4 in	695 mm
SHIFT RIGHT	28.7 in	728 mm
MAX REACH OUTSIDE TIRES - LEFT	73.6 in	1859 mm
MAX REACH OUTSIDE TIRES - RIGHT	71.2 in	1809 mm
MAX LIFT ABOVE GROUND	18.9 in	480 mm
BLADE TIP ANGLE - FRONT	40 degrees	
BLADE TIP ANGLE - REAR	5 degrees	
Dimensions		
HEIGHT TO TOP OF CAB	10.2 ft in	3107 mm
OVERALL LENGTH	28.1 ft in	8571 mm
WIDTH OVER TIRES	8 ft in	2440 mm
WHEELBASE	20 ft in	6086 mm
BLADE BASE	8.4 ft in	2575 mm
TANDEM AXLE WHEELBASE	5 ft in	1523 mm
REAR GROUND CLEARANCE	1.1 ft in	341.5 mm
FRONT GROUND CLEARANCE	2 ft in	594 mm

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