**CATERPILLAR 14m Motor Grader**



**Selected Dimensions**

|  |  |  |
| --- | --- | --- |
| Dimensions | | |
| A. Overall Length | 30.9 ft in | 9412 mm |
| B. Width Over Tires | 9.2 ft in | 2791 mm |
| C. Height to Top of Cab | 11.6 ft in | 3535 mm |
| D. Wheelbase | 21.5 ft in | 6559 mm |
| E. Rear Ground Clearance | 1.3 ft in | 383 mm |
| G. Tandem Axle Wheelbase | 5.4 ft in | 1656 mm |
| H. Blade Base | 9.3 ft in | 2842 mm |

**Specification**

|  |  |  |
| --- | --- | --- |
| Engine | | |
| Make | Caterpillar | |
| Model | C11 ACERT VHP | |
| Net Power Gear 1-2 | 259 hp | 193 kw |
| Net Power Gear 3-4 | 274 hp | 204 kw |
| Power Measured @ | 1800 rpm | |
| Net Power Gear 5-6 | 274 hp | 204 kw |
| Number of Cylinders | 6 | |
| Net Power Gears 7-8 | 274 hp | 204.3 kw |
| Max Power | 274 hp | 204.3 kw |
| Displacement | 677 cu in | 11.1 L |
| Operational | | |
| Std Operation Weight - Front Axle | 12611 lb | 5720 kg |
| Std Operation Weight - Rear Axle | 34522 lb | 15659 kg |
| Std Operation Weight - Total | 47133 lb | 21379 kg |
| Max Operation Weight - Front Axle | 21912 lb | 9939 kg |
| Max Operation Weight - Rear Axle | 44086 lb | 19997 kg |
| Max Operation Weight - Total | 65998 lb | 29936 kg |
| Fuel Capacity | 130 gal | 492 L |
| Cooling System Fluid Capacity | 12.3 gal | 46.5 L |
| Hydrauilc System Fluid Capacity | 15.9 gal | 60 L |
| Transmission Fluid Capacity | 23.5 gal | 89 L |
| Circle Gearbox Fluid Capacity | 1.6 gal | 6 L |
| Tandem Case Fluid Capacity (each) | 25.5 gal | 96.5 L |
| Transmission | | |
| Type | direct drive, power shift, countershaft | |
| Number of Gears - Forward | 8 | |
| Number of Gears - Reverse | 6 | |
| Max Speed - Forward | 31 mph | 49.8 km/h |
| Max Speed - Reverse | 24.5 mph | 39.4 km/h |
| Steering | | |
| Articulation L/R | 20 degrees | |
| Turning Radius | 25.9 ft in | 7.9 m |
| Front Axle | | |
| Wheel Lean | 17.1 degrees | |
| Oscillation - Total | 32 degrees | |
| Hydraulic System | | |
| Pump Type | variable displacement | |
| Pump Flow | 74 gal/min | 280 L/min |
| Relief Valve Pressure | 3500 psi | 24150 kPa |
| Moldboard | | |
| Moldboard Width | 14 ft in | 4267 mm |
| Moldboard Height | 27 in | 688 mm |
| Moldboard Thickness | 1 in | 25 mm |
| Max Depth of Cut | 17.3 in | 438 mm |
| Side Shift Left | 29.1 in | 740 mm |
| Side Shift Right | 31.1 in | 790 mm |
| Blade Pull at Max Weight | 39678 lb | 17997 kg |
| Blade Down Pressure | 38666.9 lb | 17539 kg |
| Circle | | |
| Diameter | 71.8 in | 1822 mm |
| Shift Left | 25.5 in | 650 mm |
| Shift Right | 20.5 in | 520 mm |
| Max Reach Outside Tires - Left | 85.4 in | 2169 mm |
| Max Reach Outside Tires - Right | 89.7 in | 2279 mm |
| Max Lift Above Ground | 16.5 in | 419 mm |
| Blade Tip Angle - Front | 40 degrees | |
| Blade Tip Angle - Rear | 5 degrees | |
| Dimensions | | |
| Height to Top of Cab | 11.6 ft in | 3535 mm |
| Overall Length | 30.9 ft in | 9412 mm |
| Width Over Tires | 9.2 ft in | 2791 mm |
| Wheelbase | 21.5 ft in | 6559 mm |
| Blade Base | 9.3 ft in | 2842 mm |
| Tandem Axle Wheelbase | 5.4 ft in | 1656 mm |
| Rear Ground Clearance | 1.3 ft in | 383 mm |