

CASE CONSTRUCTION EQUIPMENT DELIVERS NEW ELECTRO HYDRAULIC JOYSTICK LEVERS FOR THE C-SERIES GRADERS

CASE is launching the new joystick levers for the 836C and 856C motorgraders. The new joystick control delivers improved moldboard control, along with a range of steering upgrades which are an addition to the already great features of the grader.

Benefits include:

- reduced effort & high precision thanks to the new electro-hydraulic joystick control.
- increased productivity & efficiency thanks to the Dual Power system, automatic gear shifting and Creep mode.
- best operator comfort & controllability thanks to optimised moldboard control and a redesigned side console.
- European Stage V emissions standard compliant thanks to the Selective Catalytic Reduction (SCRoF) exhaust after-treatment system.
- Increased safety thanks to a rear-view camera reducing the need for the operator to continually turn when working.

Joystick control

The electro-hydraulic joystick control delivers a new level of moldboard control to the operator. The Electro-hydraulic joysticks are built into multi-adjustable armrests on each side of the operator's seat.

Each joystick is equipped with multiple roller switches and push buttons, to control the working hydraulic and steering functions. The redesigned side console now contains additional switches that allows adjustments to the system as per the operator's needs.

The new Joystick Steering allows the operator to steer the machine using the left-hand side joystick. All steering commands, including turning the front wheels, moving the frame articulation and setting the wheel lean are available through the joystick. The also new RTC function allows the operator to return all steering commands back to the centred position, by just pushing the dedicated button. This allows the operator to control the machine without having to take their hands off the joystick levers, reducing effort and increasing productivity.

Comfort Steering, when activated, reduces the number of steering wheel turns required to fully turn the machine. This improves fine control of the steering wheel and makes it easier to complete a full U-turn, with just a small turn of the steering wheel.

Combined Steering brings together the various steering commands into one control function. Once activated, front wheel steering, frame articulation and wheel lean work together as the operator turns the steering wheels or moves the joystick. This provides the operator with the ability to make narrow turns without having to think about which steering command to use individually.

Additionally, with activated TwinLift, operators have the possibility to move both lift cylinders by using just the right-hand joystick. TwinLift makes it easier for the operator to correct the moldboard position without having to work both joysticks. This feature also assists the operator, when grading a wider slope, as the operator can simply lift the moldboard with one joystick to reposition the machine for the next pass.

Dual Power

The CASE C-Series graders are powered by the latest 6.7-litre six-cylinder FPT diesel engines. Using Hi-e-SCR2 technology, they feature a maintenance-free Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCRoF) exhaust after-treatment system to comply with the European Stage V emissions





standard. This combined system helps to create a compact engine compartment with exhaust temperatures in normal operation on average 200°C below that of a traditional particulate filter.

The engines are application-engineered specifically to work in a grader operation, where fast torque response is required to maintain high productivity levels. A Dual Power system offers increased engine output from fourth to sixth gear. In the case of the 836C and 836C AWD, the engine develops 102kW (138hp) in first to third gears, shifting to 115kW (156hp) in fourth to sixth ratio. For the larger 856C and 856C AWD, the engine develops 129kW (173hp) in first to third, lifting to 142kW (190hp) in fourth to sixth gears.

The power is transmitted through an Ergopower powershift transmission with six forward and three reverse gears. Automatic gear shifting optimises machine performance, leaving the operator free to concentrate on moldboard and blade work. A no-stall torque converter and 100% automatic differential lock ensures maximum traction in all operating conditions.

All-wheel drive models also feature a Creep mode, allowing the operator to set the forward speed almost independently of engine rpm. This makes the grader suitable for compaction work, reducing the overall fleet of machines required on site, increasing efficiency and cutting cost for the customer. Both the 4WD and 6WD models are available with optional 24" tyres, ideal for uneven soils and when low tyre bumping effect is required.

Cutting-edge technology

The CASE moldboard design maximises controllability, with a low friction, roller-mounted encapsulated slewing ring delivering jolt-free rotation torque. This moldboard design results in fewer greasing points, which reduce the maintenance time and eliminates the need for periodic replacement of wear inserts - reducing the costs for the customer.

An A-Shape frame virtually eliminates lateral stress in off-set positioning and the central saddle can be set hydraulically in five different positions. The operator can rotate the blade over 90° to each side without any mechanical interference. An infinitely variable radius blade reduces traction effort and improves material roll in finishing operations.

All C-Series CASE graders can be equipped from the factory prepared for the most commonly used blade control solutions. The grader can be delivered to the customer in a plug-and-play set-up, allowing rapid installation of 2D and 3D machine control systems. These automatic blade control systems allow even the most inexperienced operator to achieve higher productivity and more constant output.

Operator comfort

The machines feature a rear-mounted, low-profile, ROPS/FOPS cab with heated and air-suspended seat, that delivers best-in-class levels of operator comfort and visibility, while keeping overall machine height low to avoid transport concerns. Wide, tinted glass provides an excellent view around the machines, with a full view of the mouldboard for the seated operator. A rear-view camera provides increased safety when reversing, reducing the need for the operator to continually turn when working.

Boosting uptime and customer peace of mind with CASE® Service Solutions

To further boost the productivity, profitability and uptime of the revised 836C & 856C, CASE has available a range of connected and non-connected after-sales services, CASE Service Solutions, which supports customers' experiences of CASE equipment.

The complete fleet management tool CASE SiteWatchTM enables geolocation, fleet security using geofences and unauthorized use alerts and flexible reporting. This includes key performance indicators (KPIs) such as fuel consumption, utilization rate, machine hours and idle time, so productivity and profitability can be monitored and optimised. The data is easily accessible via a portal.



CASE SiteConnect enhances telemetry data used by CASE's Uptime Center team to provide dealers with alerts based on machine performance. Fast corrective action to minimize downtime is possible, as dealers remotely access machine data and take corrective action faster. This enables dealers to be proactive in managing customers' machines and boosting uptime. Both SiteWatch and SiteConnect are available as options with the newly revised models.

Customers benefit from greater peace of mind with CASE Care, CASE Protect and CASE Fluid Analysis. CASE Care is a standard planned maintenance programme, with genuine parts and lubricants. The programme is underpinned by the support, logistics and technical expertise of the wide-reaching CASE dealer network. CASE Protect is an extended warranty program and CASE Fluid Analysis aims to prevent major failures, optimising the asset reliability and extending operating lifetimes.

Quick Specifications 836C – 836C AWD

Operating weight: 11,701-12,800kg Engine : FPT Hi-eSCR2 Stage V Power: 102/115kW Dual Power Moldboard width: 2,440/3,050/3,355mm

856C - 856C AWD

Operating weight: 14,976-16,650kg Engine : FPT Hi-eSCR2 Stage V Power: 129/142kW Dual Power Moldboard width: 3,350/3,665/3,960mm

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