



A single machine solution for pothole repair

JCB's JCB Pothole Master, designed to offer long term pothole repair quality and efficiency

As more and more sites move to South Africa, Kematch JCB is introducing a special edition of the world renowned JCB machine loader, designed as a single-machine solution for urban road maintenance.

The JCB-ICE has for many years been the most versatile machine on site and machine loader remain popular with many local authorities and road repair contractors.

Now JCB has combined the powerful, high specification JCB with a diesel-mounted roller drum and a rear-mounted loader on the front loader arms, to create the JCB Pothole Master, designed to offer long term pothole repair. This single machine offers both maintenance and road construction a rapid, mobile solution to meet their permanent road maintenance equipment needs.

The Pothole Master is powered by JCB's highly efficient Deutzman engine, which is available to meet Tier 2 and Tier 3 emissions standards. The engine features 50hp (36kW) with the option of a 100hp (74kW) version if preferred. Both engines drive through a power JCB Powershift transmission to repair, maintain the machine between sites, without the need for additional transport, increasing operator and winning maximum productivity throughout the day.

The JCB Pothole Master is equipped with a 600 mm wide roller drum from JCB Maintenance, that has been engineered to work efficiently with the machine's full output auxiliary hydraulic service. Advanced Fines Control hydraulic with sensor control allows close control, allowing an ergonomically superior driving environment and provide the operator to deliver total control over all functions of the backhoe when operating. Pressure compensated variable flow hydraulic service maintains power delivery to the panel

attachment, while maintaining complete control of all boom and dipper functions during operation.

The panel plate is suitable for a wide range of applications, from single pass small pothole repairs, to complete highway sections. JCB's powered roller drum capability ensures that the operator can cover the full width of the machine, without having to rotate the backhoe loader, which is essential when working in a single corner of completion. The panel provides a clear and well protected working area, ensuring a long-term pothole repair, rather than a temporary solution to the problem.

At the front of the machine the JCB is equipped with a 2.5 m wide hydraulic loader collector brush, which includes the hydraulic motor, to widen the width of the machine, making it easy for the operator to level safely off the road. The sweeper drum's bristled brush, which also integrates the 2.5m width and wide brushes for maximum capacity, provides near 90% of road planning with sweeping dust and to mix or material being thrown onto from the machine. One or two passes of the cleared area is enough to provide a clean work area that is ready for repair and mixing of asphalt. The brush enclosure also greatly reduce any dust as the driver is kept in a clean space, to protect from site.

JCB has incorporated a hydraulic lift feature that moves the brush safely away from the bucket. This allows the operator to use the bucket to collect planning from larger areas, and to set complete manually load the bucket in higher spaces. Being able to lift the brush, enables work from the street, in conjunction with the machine's standard long travel arms, helps to ease the operator to load over the back of a lorry truck, right alongside when working with in a single company with.



The JCB Pothole Master is equipped with a 600 mm wide roller drum capable of handling single pass small pothole repairs. Though it contains higher centres, the panel provides a clear and well protected working area ensuring a long-term pothole repair.

JCB's innovative hand-held power hose hydraulic circuit, mounted on the side of the JCB Pothole Master, allows operators to use a wide range of hand held brushes and tools, to cut through concrete, in the road and to provide a clear-cut to the panel area. This also offers the road repair crew to access difficult areas that cannot be reached by the panel area.

Traditionally urban and local authorities as well as contractors have had to use a wide array of cutting, finishing and planning machinery, with variable road operators and costs to carry out repair of potholes. The single machine loader-based solution greatly reduces the number of machines required to carry out this type of work, reducing cost and increasing efficiency for the local authority.

Smaller tools and machines have to be carried to site on additional-lorry loads or in delivery vehicles, while the JCB Pothole Master can carry out road repair immediately and then supply most immediately to the next site.

A further benefit of the Pothole Master is that when not being used for road repair duties, it is possible to remove the attachments and operate the JCB as a standard backhoe loader. This means that the customer can achieve maximum operators' effort having to have additional machines that are only used on a seasonal basis. ☺

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The front end of the Kematch JCB ICE Pothole Master sports a 2.5 m wide hydraulic loader collector brush with structured brush. This is 100 percent of the cleared area is enough to provide a clean work area that is ready for repair and mixing of asphalt.

