

Volvo EC380EHR and EC480EHR reach new heights of productivity

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The latest generation of Tier 4 Final/Stage IV-compliant high reach excavators from Volvo Construction Equipment combine optimum durability and safety for maximum profitability in all demolition projects.

Volvo Construction Equipment is dedicated to producing the ultimate in heavy-duty demolition machinery. The new EC380EHR and EC480EHR high reach demolition excavators are designed and built to suit the needs of this demanding task, offering maximum safety in all demolition applications. A frame-mounted Falling Object Guard (FOG) and safety windows ensure safer operations when there is a risk of the cab being struck by debris, and rear and side-view cameras provide a complete view of the jobsite at all times. Produced in Volvo CE's industry-leading manufacturing facilities, these machines are fully supported by the company's global service and spare parts network to increase uptime.

Designed to demolish, the EC380EHR and EC480EHR are equipped with robust components and a powerful Volvo Tier 4 Final/ Stage IV engine to ensure these machines keep working shift after shift. They have been built with a sturdy undercarriage and an improved working range over 360°, reducing the need to reposition the machine and maximizing production efficiency. The heavy-duty, extendable undercarriage can be retracted for ease of transportation and expanded it for ultimate stability on-site.

Bringing down the house

With a robust structure, heavy tool weight and outstanding hydraulics, the EC380EHR and EC480EHR ensure a strong performance in the toughest of demolition projects. The latest generation of Volvo high reach excavator benefits from improvements to the machine structure and hydraulic system, each optimized to carry heavier attachments, and the maximum pin height has been increased to widen the working range for ultimate productivity. In addition, a new electro-hydraulic system uses intelligent technology to control on-demand flow for accurate controllability and excellent fuel economy.

The EC380EHR and EC480EHR are equipped with a variety of features dedicated to heavy duty demolition, offering ultimate protection for the machine in this extreme application. A micro-mesh screen on the doors and engine cowl keeps out particles and boosts engine performance and full-length track-chain guards prevent sharp objects from lodging in the tracks. Swing-ring protection guard protects the swing ring bearing

seal and grease piping from damage by rebar, timber or other debris.

These machines have been designed to get to work quickly and efficiently – it typically takes one engineer only three to four hours to set up the machine with Volvo CE's quick assembly system. These machines can be equipped with a dust suppression system with a 30 lpm hydraulic lifting pump, eliminating the need for a separate solution. Four nozzles, two on each side of the arm, provide a fine mist that traps dust, and this water system can also be used for cleaning the machine with the high pressure water gun mounted behind the cab.

Demolish in comfort

For industry-leading levels of comfort, the EC380EHR and EC480EHR are equipped with a high visibility Volvo cab and carefully placed cameras, ensuring the ultimate in both productivity and safety. Ergonomically placed controls and a shock-absorbent air suspension seat ensure high levels of operator comfort.

These machines feature a hands-on tilt function, with buttons located on the joysticks to allow the operator to easily adjust the angle of the tilting cab without removing their hands from the joysticks, ensuring an unobstructed view of the working area from the new, high-visibility care cab designed for demolition duties. This view is further enhanced by two cameras mounted on the arm, displayed on an eight inch monitor for a thorough view of the attachment and working area. To ensure the operator is always working within the machine's limits, a total moment indicator warns when the machine is approaching the maximum safe working load.

A versatile addition

The EC380EHR and EC480EHR are designed to add versatility to any fleet. An innovative hydraulic modular joint uses a hydraulic dual full pin lock mechanism to release digging equipment and change from high-reach demolition boom to a standard. To achieve the correct flow and pressure for hydraulic attachments such as breakers, shears, crushers, sorting grabs and tilt rotators, the machine can be factory fitted with a wide variety of hydraulic lines to suit these attachments.

The attachment management system stores the settings for up to 20 different hydraulic attachments for ease of operation. Depending on the hydraulic options configured, the management system can store flow, maximum pressure, and settings for operating comfort.

Volvo offers a full range of quick couplers, including its dedicated S-type coupler, that are perfectly matched to Volvo's bucket range to ensure high break-out forces at all times. The Volvo universal quick coupler picks up a variety of attachments for unparalleled versatility.

Source: Volvo AB