

Komatsu PC490LC-10 High Reach Demolition Crawler Excavator at bauma 2016

With new hydraulically adjustable wide gauge undercarriage



Vilvoorde, January 2016 —The PC490LC-10 High Reach Demolition (HRD) excavator, Komatsu’s latest addition to its highly successful demolition range, will be presented at bauma 2016 with a new adjustable undercarriage. The PC490LC-10 HRD was first displayed at Intermat 2015 and also received the 2015 award for Innovation of the Year from the National Federation of Demolition Contractors (NFDC). The machine brings the benefits of the Dash 10 range into the specialised demolition industry and is ideally suited for the demolition of heavy industrial structures. This original Komatsu factory equipment was developed over 2,5 years and has received full OEM quality assurance after passing stringent performance tests.

The stability of the machine is significantly enhanced by the new hydraulically adjustable wide gauge undercarriage which features longer trackframes than the standard undercarriage. Including 700mm triple grouser shoes, the width of the new hydraulically adjustable undercarriage can be varied, in minutes, from the working width of 4000mm to only 3000mm, improving ease of transportation where width restrictions apply. Specified with the new undercarriage, the machine’s maximum operating weight is increased to just over 70t.

“We are delighted that the PC490LC-10 HRD machine has already been acknowledged by the industry through winning the NFDC’s Plant Innovation of the Year 2015 award and by appearing on the shortlist for the World Demolition Awards 2015,” says Simon Saunders, Product Manager for Working Gear Excavators. “Our demolition machine developments are driven by customer feedback and we believe that the new hydraulic undercarriage specification demonstrates our continued commitment to bringing all of the benefits of an original factory developed product to demolition customers.”

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Weighing in at 70.250 kg, the PC490LC-10 HRD is powered by a Komatsu SAA6D125E-6A engine with a flywheel horsepower of 270 kW (362 HP) and is compliant with EU Stage IIIB emissions regulations.

The latest KOMTRAX™ telematics, and the Komatsu Care® complimentary maintenance program, offer top fleet management and support, protect the machine against misuse and guarantee maximum efficiency and uptime.

Features of the new PC490LC-10 HRD:

Designed for demolition

Designed, manufactured, tested and supported by Komatsu, the PC490LC-10 HRD excavator is purposely built for demolition work: it has a large working range with a maximum working height of 28 m. The large diameter boom cylinders ensure the operator has maximum hydraulic power at all times for total control, even at extreme reach. Its demolition tool capacity of 3,35t at 16,5m forward reach improves project time and helps to reduce machine loading.

The heavy duty medium reach demolition specification allows the use of full size 5t demolition tools at a height of up to 17,4 m, giving the new machine the capability to tackle heavy demolition work at medium height.

The PC490LC-10 HRD is compliant with latest EU474 Annex G regulations which govern machines used for cutting buildings.

Enhanced safety features

The new working range indicator system does not interfere with the control of the machine. It gives full colour, real time indication of the precise position of each section of the work equipment, to ensure the operator is fully aware of the available working range. The system includes memory settings for 15 attachments (with operator selectable names) and takes into account the inclination of the base machine for calculation of the available working range. The system is effective for both high reach and medium reach demolition, automatically detecting which equipment configuration is installed at engine start up.

The cab is specifically designed for the new high reach demolition excavator. The front window and roof window incorporate high impact protective glass compliant with EN356 Grade P5A. The front guard, side hinged for easy window cleaning, complies with ISO10262 Level 2 falling object test requirements.

Enhanced operator environment

The PC490LC-10 HRD operator cab is mounted on a Komatsu original tilting mechanism, the tilt angle being infinitely adjustable between 0 and 30°, with convenient tilt angle control through joystick-mounted thumb switches.

The fully air suspended operator control station incorporates side consoles mounted together with the high back, fully adjustable seat, with standard-fit heating for improved comfort.

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The cab provides a comfortable and quiet work environment where operators can maximise their productivity. It gains strength from a reinforced tubular skeleton framework. Viscous damper mounts lower vibration levels, further enhancing fine control and reducing operator fatigue. Along with two 12 volt ports, an auxiliary input has been added to connect an MP3 player or other device that uses a standard auxiliary.

Convenient maintenance and serviceability

Newly designed work equipment stands with integrated access platforms cut down the time taken to change the configuration of the machine and significantly increase the safety of the changeover process. Tie down lugs are provided allowing the high reach equipment to be transported while located in the equipment stands, improving ease of transportation.

The PC490LC-10 HRD provides easy service access that reduces costly downtime. Routine service points are quickly reachable from ground level and handrails surround the accessible areas of the upper structure for easier and safer checking and maintenance. The radiator and hydraulic oil cooler are mounted side by side, making it simpler to carry out maintenance and service when required, while the air conditioning condenser is hinged to allow even easier access. Access steps are provided in all naturally convenient positions to allow safe and quick access to the engine bay.

The machine is equipped with the exclusive Komatsu EMMS (Equipment Management Monitoring System), which has enhanced diagnostic features that give operators and technicians greater monitoring and troubleshooting capabilities. EMMS also continuously monitors all critical systems and preventative maintenance, and provides assistance to minimise diagnosis and repair time.

EU Stage IIIB / EPA Tier 4 Interim emission certified engine

The Komatsu SAA6D125E-6A engine uses an advanced electronic control system to manage airflow rate, fuel injection, combustion parameters, and aftertreatment functions to optimise performance, reduce emissions and provide advanced diagnostic capability.

As a leader in hydraulic technology, Komatsu developed a hydraulically actuated Komatsu Variable Geometry Turbocharger (KVGT) and an Exhaust Gas Recirculation (EGR) valve, resulting in up to 5% reduction in fuel consumption, as well as longer component life.

The passive/active Komatsu Diesel Particulate Filter (KDPF) is designed to function primarily in its highly efficient “passive” mode and oxidises most trapped particulates with no need for operator control and no interruption to machine operations. Based on exclusive Komatsu technology, this regeneration system keeps the operator aware of its status and has a manual override integrated into the monitor panel.

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PC 490LC-10 HIGH REACH DEMOLITION					
Configuration	High reach	Medium reach	Medium reach	Digging mode	
Boom position	-	Straight	Cranked	Straight	Cranked
Maximum height (pin)	28.0m	17.4m	14.6m	13.4m	10.6m
Maximum forward reach (rated attachment)	16.5m	11.0m	11.4m	11.7	10.6m
Operating weight (rated attachment)	65,000kg	65,950kg	65,950kg	55,750kg	55,750kg
Rated Attachment weight	3.35t	5.0t	5.0t	5.0t	5.0t

Information in this news release is current on the date of the announcement and is subject to change without notice.

Notes:

- All comparisons are to the Komatsu model PC450LC-8.
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