TEREX | O&K

Hydraulic Mining Excavator

RH 40-E

The RH 40-E design is based on extensive field experience gained by TEREX O&K from its range of large hydraulic excavators up to 1000 t operating weight, which are running in a permanent 3-shift operation. This longstanding know-how is the key for high production with large buckets and short working cycles which at the same time does not involve unnecessary increase of operating weight. The installation of proven technology combined with a service strategy that fits practical requirements guarantees superior availability. Reliability has been demonstrated by the RH 40-E in a multitude of applications, either as a key production unit – sometimes the only loading tool in quarry applications – or in continuous 3-shift operation on large mine sites. Generous output from the powerful Cummins diesel-engine is fully converted into hydraulic performance through the Pump Managing System PMS.

A no-compromise concept:

for maximum productivity

If required, the RH 40-E is capable to load large trucks, such as this 100 ton unit.

Intelligence converts power into added productivity

The Pump Managing System PMS regulates electronic load limit governing, automatic engine rpm reduction during working breaks and automatic zero flow of main pumps. Among the variables of the Pump Management System are the hydraulic and engine oil temperatures. The result: optimum power utilization, minimum wear and maximum energy savings.

TriPower –

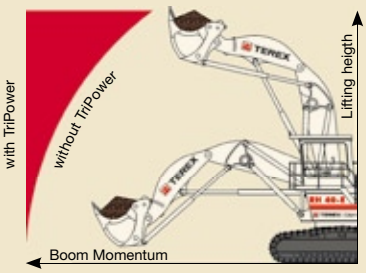
O&K's power formula for maximum productivity

TriPower geometry on the RH 40-E permits fast, exact and powerful operation with less stress on the equipment, much simpler functioning and a substantial increase in performance potential. The key advantages:

- increasing crowd force throughout the entire crowd distance
- constant bucket angle whatever the position of the boom and automatic rollback limiter – hence improved bucket filling at all times
- automatic parallel bucket guidance when crowding at any level
- increased effective lift forces
- constant boom momentum
- pressure-free retraction of the boom and stick cylinders.

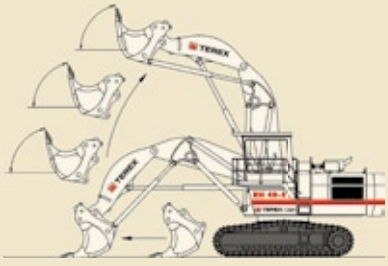
A geometry to guarantee faster, more profitable loading cycles.

TriPower provides faster cycles and higher production. The working speed is increased without additional energy consumption. Furthermore TriPower reduces the stress on the bucket and works with rather than against the operator.



Only TriPower keeps the boom momentum constant along the entire lifting distance. TriPower compensates the loss that occurs with conventional kinematics.

The bucket is automatically guided parallel at any digging height for faster working cycles and easier handling.



Automatic parallel bucket guidance and roll back limiter at every boom position – no back spill of material over the bucket rear wall protecting components and cab.

It's not only the size of the cab makes working a pleasure. Further benefits are: Comfort, responsive controls for fast operation, excellent visibility and sound suppression, a good working climate, and a lot more. Working becomes a pleasure. Good working conditions enhance the working environment – and promote a willingness to work hard. Which is why the RH 40-E comes with a state-of-the-art control centre in which everything is perfect. The spacious cab offers the operator ample comfort, convenience and freedom to move. A comfortable, air-cushioned and multi-adjustable seat, contributes to operator efficiency. An additional seat can be folded down for a second person. Ergonomically arranged instruments, short-stroke levers, precisely adjustable heating and ventilation for the most agreeable and most efficient working climate at all times.

Convenience, perfect view and efficient operation without fatigue, excellent noise protection, a perfect climate and more: A cab to create a comfortable and productive working environment.

Largest cabin
in the 100-t-class

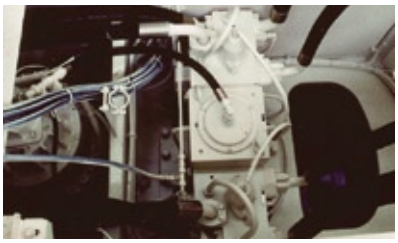
Modern control panel with dust-proofed and water-protected keys and switches. Simple to operate, easy to understand.

BCS as an option

All the important operating modes can be seen "at a glance" on the wellarranged control panel. The time-tested Board Control System of the large hydraulic excavators is available as an optional extra. This computer-aided control system with error memory monitors all the relevant operating data and helps to prevent downtime by providing early warnings.

Everything in sight – everything under control

The superstructure of the RH 40-E is remarkable for the modular design and its clear and spacious layout. The QSK 19 C diesel engine delivers power for the advanced hydraulic system. Both water and hydraulic oil cooling systems are totally independent from each other and they are installed at seperate locations to prevent interference.



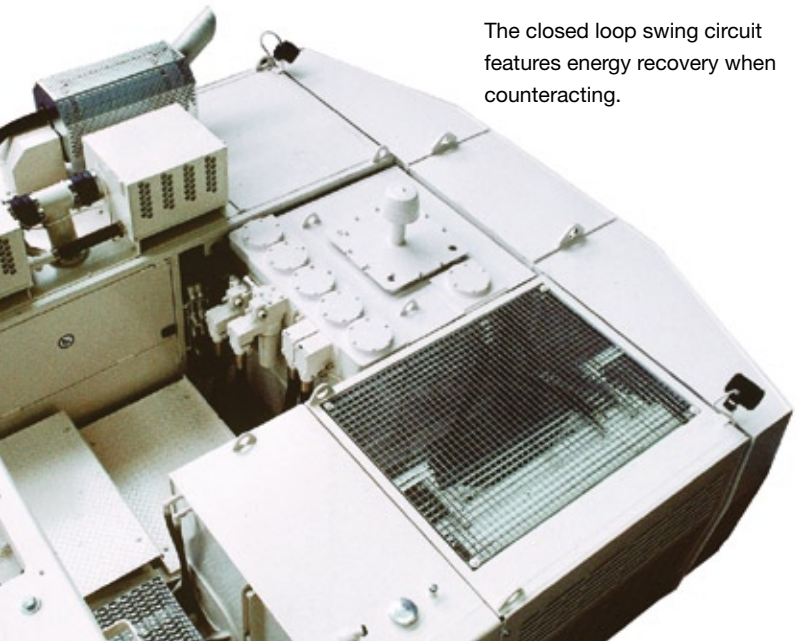
Shortened maintenance times with mini measuring points for checking hydraulic pressure. Flanged connections on all the high-pressure lines.

Superstructure
of the RH 40-E

Installed longitudinally, the drive unit is accessible from either side for minimized maintenance and repair effort. The result together with the electronically controlled and economic QSK engine is excellent equipment availability and profiability. The centralised automatic lubrication ensures correct lubrication and saves time.

Quick maintenance and high availability

Powerful and economic: The electronically controlled and monitored Cummins QSK engine.



The closed loop swing circuit features energy recovery when counteracting.

The positioning of the main valve block on top of the boom improves the accessibility of the superstructurecomponents. And it reduces the number of hydraulic hoses to a minimum.

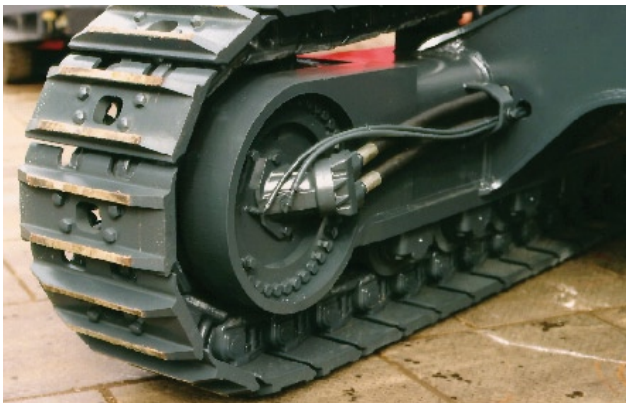
Designed for optimum performance, the undercarriage is remarkable for its nocompromise, solid design and ample ground clearance. A low centre of gravity and ideal length/width ratio give the RH 40-E its rock-like stability and superiority, whatever the job. The fully encapsulated track drives with the three-stage hub-mounted planetaries and standard multi-disc brakes are safely located inside the rugged track drive profile for protection against damage.

Built like a rock-

the RH 40-E‘s undercarriage

The travel gearboxes and motors are effectively protected from damage. The cover plates are easy to disassemble.

Ample ground clearance and superior stability. The tracks themselves feature hydraulic tensioning and are maintenance free.



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