

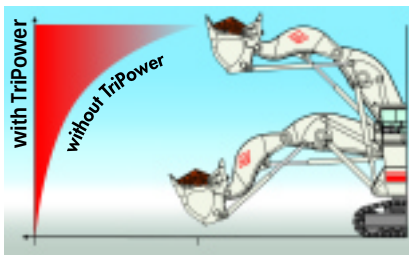
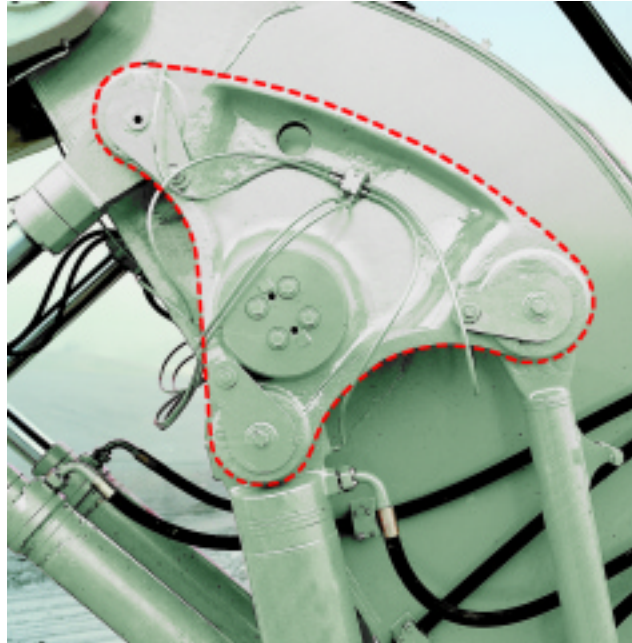
Mining Hydraulic Excavators



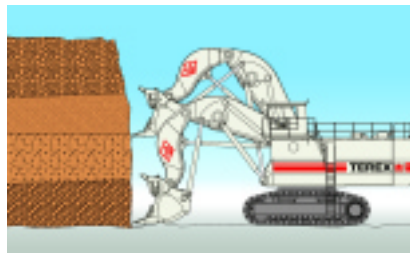
State-of-the-art engineering for exceptional productivity.

The “magic triangle” for greater output. O&K's patented TriPower kinematics boost crowd and digging forces without additional energy consumption.

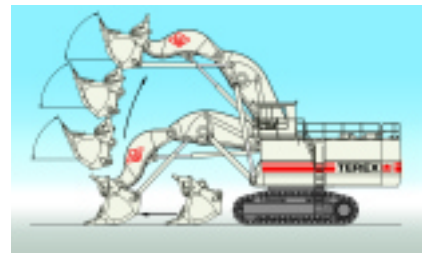
TriPower eases the stress and strain on the excavator, reduces wear and optimizes the bucket fill factor. TriPower provides for simple and precise controls, thus making the operator's life easier. TriPower shortens loading cycles. In fact, the tougher the mining conditions, the more evident TriPower benefits become. Additionally, O&K's unique front end attachment is retracted under zero pressure, accelerating cycles even more.



Only O&K's TriPower continuously boosts crowd force across the entire boom movement so that power is available where it is most needed.



At any digging height, the bucket is always held parallel when crowding. Quick and easy operation is thus guaranteed.



At any boom position, bucket angle is constant; automatic rollback control prevents material spillage over the bucket rear wall.



Oversized smartly styled cab with Board Control System.

Board Control*, a real penny pincher!

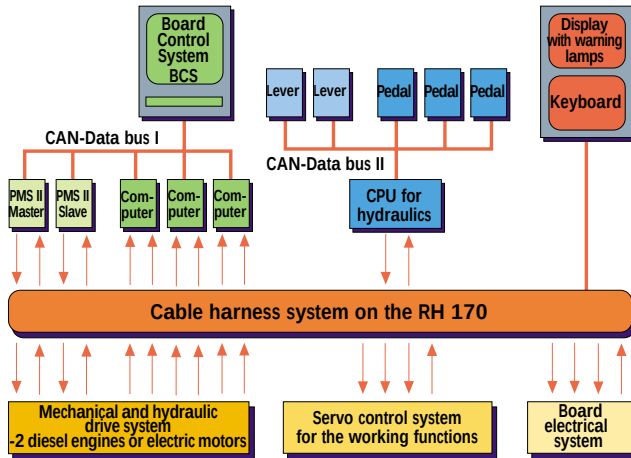
BCS is a cost saving diagnostic feature to monitor all important operating and servicing data, displaying the findings on the monitor. As soon as any variances are detected, the operator is alerted visually and audibly.

That way, downtime is minimized.

*optional on some models.



Productivity soars – operating costs plunge.



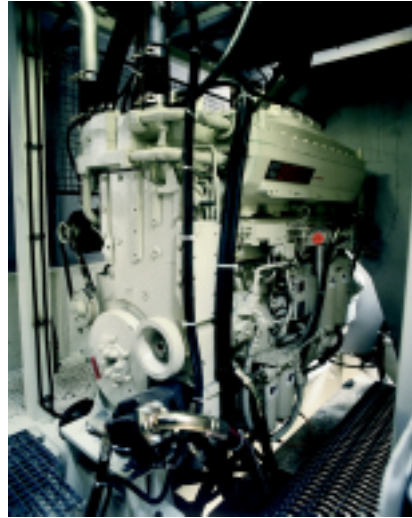
Efficient pump management.

Further refined PMS Pump Managing System with electronic load limit control continuously evaluates actual engine and hydraulic system operating values against stored set values and will adjust pump output for ultimate performance. Consequently, available engine power is constantly utilized at the most desired level. Other valuable features: variable oil-flow control, automatic engine idle, zero-flow and output control. Together with pressure cut-off on the main pumps, the result is unsurpassed hydraulic efficiency.

Torque control on the superstructure swing system maximizes acceleration and minimizes power consumption.

Powerful engines.

All O&K excavators are equipped with high powered diesel engines but are also available with electric motors. In the RH 90 C and larger models the proven twin engine concept extends availability so that even if one diesel engine should fail for a short period, the second unit allows the excavator to continue digging.



Service backup is an essential feature of O&K's philosophy, a feature resulting in average long-term availability clearly in excess of over 90%. Even direct satellite links between the on-site excavator and the service office are available.



Fuel consumption at an absolute low.

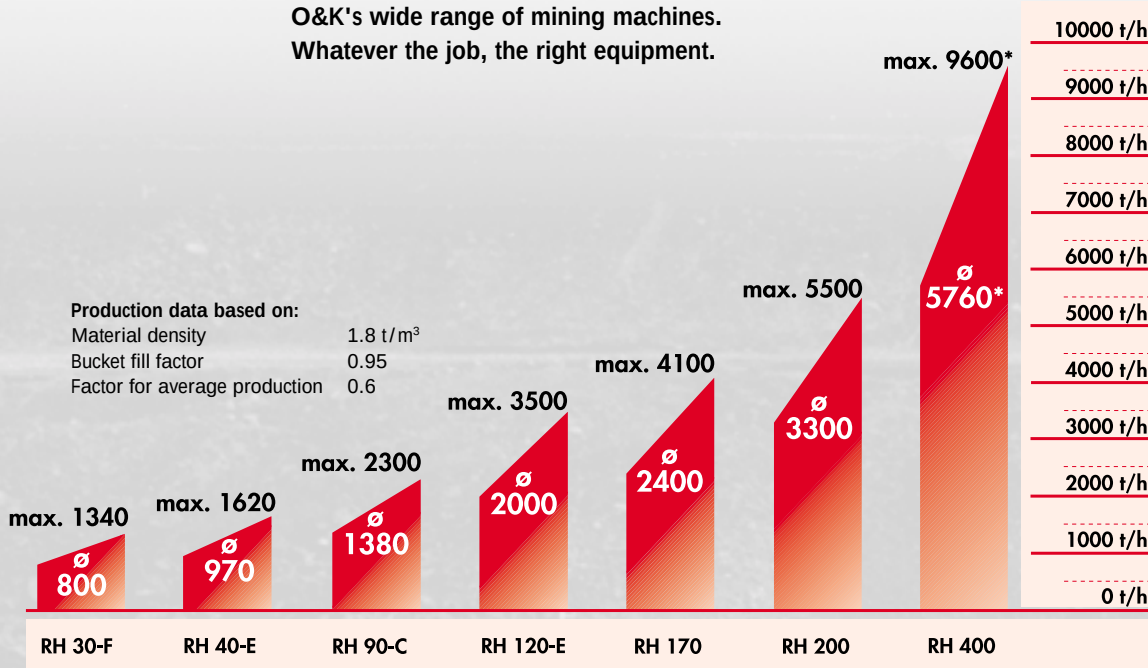
O&K has applied a variety of interactive features for a reduction in fuel consumption. Consequently this results in significantly lower operating costs.

Independent hydraulic oil cooling.

O&K's specially developed patented cooling system is fully independent of the return circuit. The result: the hydraulic system is always running at optimum operating temperature even under extreme conditions.

O&K hydraulic excavators: successfully in action on all continents.

O&K's wide range of mining machines.
Whatever the job, the right equipment.



The above performance data are average figures,
which do not apply to other applications

*Production test RH 400 at Syncrude/Canada



O&K was the first
German manufacturer
of excavators to be
certified for compliance
with DIN EN ISO 9001.



O&K's decisive advantages to improve your return on invested capital

Reliability

- More than 40 years' experience in the construction of hydraulic excavators
- Long lifetime of components
- Optimum hydraulic oil temperature due to a patented cooling system
- Triple-race roller bearing slew ring
- Long cylinder lifetime due to advanced end-of-stroke cushioning
- Diesel and electric drives proven in the mining industry

Productivity

- Short cycle times due to TriPower, PMS and Torque Control
- High digging forces
- High filling degree due to the special design of the buckets
- Efficient utilisation of engine output

Serviceability

- Excellent accessibility to components for easy service
- Extended inspection intervals
- Electronic monitoring system
- Automatic central lubrication system
- Worldwide service network



● **RH 30-F:**

With an operating weight ranging from 80 to 90 tonnes, the RH 30-F is the smallest model in the broad range of O&K Mining excavators. The standard capacity of the bucket is 6.3 m³ (SAE 1:1) for the face shovel and 5.1 m³ (SAE 1:1) for the backhoe. The backhoe version is available with rigid or retractable undercarriage. With over 700 units already in operation worldwide, the RH 30 is ideally suited for quarrying and construction applications.

● **RH 40-E:**

An operating weight of 100 tonnes and a 8.1 m³ (SAE 1:1) bucket capacity are significant characteristics of the RH 40-E. This model can be configured with either the face shovel attachment or backhoe as all other O&K Mining excavators.

The RH 40-E on average, loads a 60-tonne truck in 5 passes. To date more than 400 units of this model have been built in the Dortmund factory.



● **RH 90-C:**

Nearly 165 tonnes of proven O&K excavator technology makes the RH 90-C a strong prime mover in many surface mines and large quarries. With a 12 m³ (SAE 1:1) bucket capacity it is capable of a maximum production performance of up to 2,300 tonnes per hour.



● RH 120-E:

As successor to the RH 120-C of which there are more than 200 units, the most widely built hydraulic excavator in the 250 tonne-class, the RH 120-E continues the successful story of its predecessor. Having a bucket capacity of 17 m³ (SAE 1:1) this mining specialist is the ideal match for the 100 ton to 150 ton trucks.

Due to vast O&K experience in the designing and manufacturing of large hydraulic excavators, and along with vital feedback from the field, the RH 120-E has become a bestseller within a short period.

● RH 170:

The RH 170, produced since 1995, incorporates the most advanced excavator technology available. This 360-tonne heavy excavator with a 21 m³ (SAE 1:1) bucket capacity has been tried and tested under tough conditions in coal and ore mines in countries such as Australia, USA, Indonesia, Chile, Uzbekistan and Great Britain.



● RH 200:

The layout of this 480-tonne excavator has been adapted to extreme conditions in tough 24-hours mining applications. In worldwide applications the RH 200 fleet has clocked more than 2 millions operating hours, assuring high production and excellent reliability. At present, more than 80 units of the well proven RH 200 are operated worldwide – a record in this excavator class.

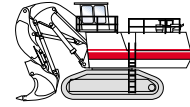
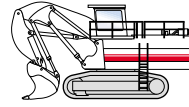
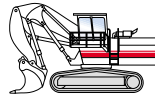
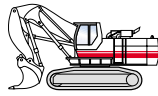
**Proven quality from the world's premier manufacturer
of hydraulic excavators of 100 t and larger.**



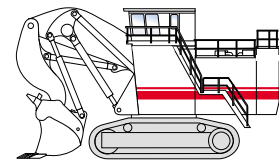
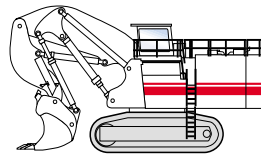
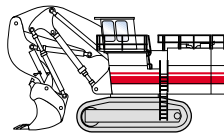
● **RH 400:**

920 tonnes operating weight, 50 m³ (SAE 1:1) bucket capacity and 3,200 kW engine output are the impressive parameters of this hydraulic excavator, which is the largest world-wide. The RH 400's loading capability for the 320 sht or 400 sht trucks averages four to five passes. With a production rate of more than 9,000 tonnes per hour measured on performance tests in the unblasted Canadian oil sand, this excavator is setting new standards.

Unbeatable by any benchmark – front shovel as well as backhoe.



Model		 RH 30-F	 RH 40-E	 RH 90-C	 RH 120-E
Front Shovel, Standard	m³ SAE 2:1/1:1	5.5/6.3	7.0/8.1	10.0/12.0	15.0/17.0
Backhoe, Standard	m³ SAE 1:1	5.1	7.0	10.0	17.0
Engine		1 x DDC-Serie 60	1 x Cummins QSK 19-C	2 x Cummins QSK 15	2 x Cummins QSK 19
Output/Speed	kW (HP)/RPM	392 (525)/1800	477 (640)/1800	760 (1020)/1800	954 (1280)/1800
Control / Output governing		hydr. servo/PMS	hydr. servo/PMS	hydr. servo/PMS	electro-hydr. servo/PMS
Track pad width	mm	500/600/750/900	500/600/750/900	600/800/1000	800/1000/1200
Undercarriage width	mm	4000 (500)	4300 (500)	5100 (600)	5400 (800)
Crawler length	mm	5730/6337	6030	7130	7640
Drawball pull	kN	588	650	1198	1680
Ground bearing pressure	N/cm²	12.6 - 13.4 (600)	15.9 (600)	16.6 (800)	19.9 (1000)
Weight approx	t	80 - 90	100	163	265
Face shovel: crowd-/breakout force	kN	530/400	650/500	870/750	1370/920
Backhoe: tearout-/breakout force	kN	335/415	400/380	550/550	900/800



Model		 RH 170	 RH 200	 RH 400
Front Shovel, Standard	m³ SAE 2:1/1:1	18.0/21.0	26.0/30.5	43.5/50.0
Backhoe, Standard	m³ SAE 1:1	20.0	26.0	on request
Engine		2 x Cummins KTA 38	2 x Cummins Serie 38	2 x Cummins QSK 60; 2 x Cat 3516 B
Output/Speed	kW (HP)/RPM	1492 (2000)/1800	1680 - 1880 (2250 - 2520)/1800	3000 - 3280 (4020 - 4400)/1800
Control / Output governing		electro-hydr. servo/PMS	hydr. servo/PMS	electro-hydr. servo/PMS
Track pad width	mm	1200/1400/1600	1400/1600/1800	1800/2000
Undercarriage width	mm	6600 (1200)	7000 (1400)	8600 (2000)
Crawler length	mm	8050	8545	10620
Drawball pull	kN	2000	2520	4000
Ground bearing pressure	N/cm²	21.8 (1200)	23.5 (1400)	25.2 (2000)
Weight approx	t	360	480	920
Face shovel: crowd-/breakout force	kN	1500/1200	1890/1500	3300/2400
Backhoe: tearout-/breakout force	kN	980/970	1200/1200	on request



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