EUCLID

RIGID HAULERS: R32, R35, R50

EUCLID – THE MOST EXTENSIVE EXPERIENCE COMBINED WITH THE MOST ADVANCED TECHNOLOGY

Always at the leading edge of progress

Euclid is the most experienced manufacturer of rigid haulers on the market. Our long history has given us experience from all over the world – experience that constantly enriches our never-ending development work.
At each phase of production – design, testing and manufacture – we make use of the most advanced technology available. Our experience and your needs come together in a Euclid hauler. There you will find the explanation for our most important trademark: good total economy.
A Euclid hauler is rigorously tested.
The designs are computer-calculated.
The materials are meticulously selected – quality is thoroughly controlled.
We build machines that live up to what we have promised.

More time for productive work

Maximum production requires minimum downtime. Euclid haulers are built for „round-the-clock" operation, all year round.
The built-in reliability is backed up by fast, dependable service, simple maintenance and an efficient spare parts and service organization.
Behind Euclid stands an organization of well-trained, competent and knowledgeable people, each of whom is a bearer of the experience we have accumulated during our long history.

Reliable drivetrain for frequent, heavy hauls

The drivetrain in a Euclid provides an example of how our experience and technology have been combined with our knowledge of the needs of the market. The result: machines with higher availability and productivity.
The engines are turbocharged for greater output and efficiency. Fuel economy is improved at the same time as exhaust emissions are reduced. The R32 and R50 are aftercooled for even greater power output, torque and fuel economy.
The power-shift transmissions are of the planetary type, incorporating rugged designs with heavy-duty planets and plates. Mechanical lock-up reduces power losses and heat generation, so the available engine power can be used to achieve a higher haul speed.
The automatic shift makes the operator's work easier while improving the machine's availability. Stresses on the transmission are reduced, since the machine always works in the right gear. Naturally, fuel economy is also improved, since the engine's output is optimally utilized.
Rugged, fully floating axle shafts and heavy-duty hub reductions transmit the power to the wheels reliably.

Proven engine with ample power reserve as a basis for long life.

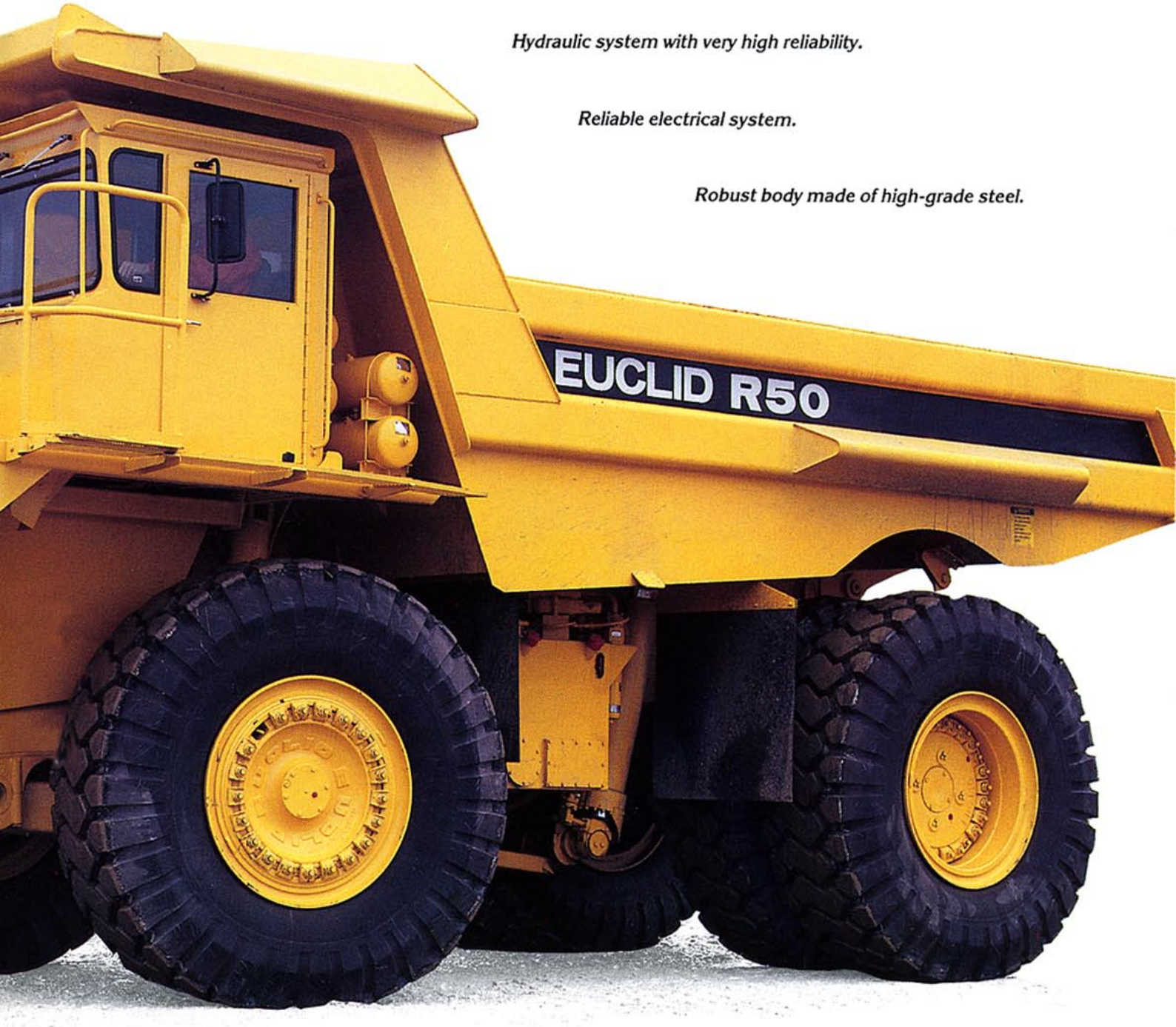
Very simple steering system with few wear points requiring maintenance and lubrication.

The cab is offset to the left and positioned all the way forward to provide good visibility over the front wings and good close-range visibility to the left and straight

Hydraulic system with very high reliability.

Reliable electrical system.

Robust body made of high-grade steel.



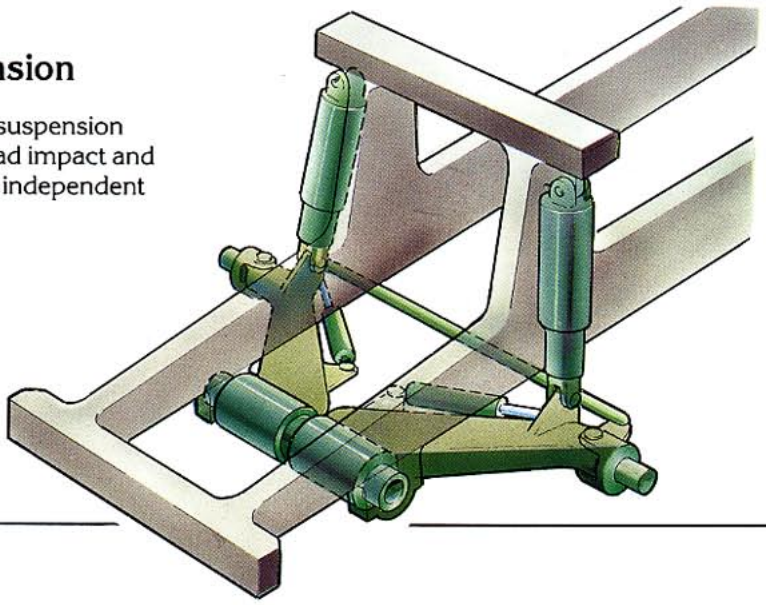
Rugged frame built to take heavy stresses over a long period of time. Frame junctions with large radii between all sections eliminate all direct stress concentrations.

Reliable dual-circuit brake system with high availability.

Nitrogen/oil suspension struts all around for good comfort and mobility, even on poor surfaces. The suspension characteristic can be adapted to the actual conditions on the worksite.

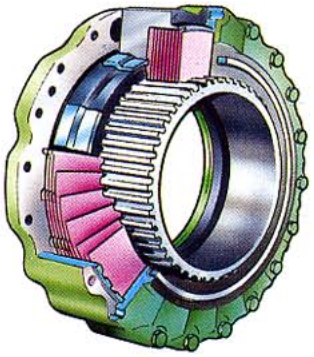
Unique front wheel suspension

The R35 and R50 have a front wheel suspension with trailing arms that absorb haul road impact and minimize frame twisting by providing independent wheel action.



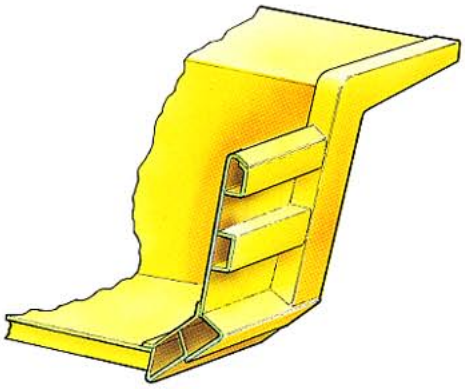
Wet disc brakes

The rear axles on the R35 and R50 are equipped with Euclid's wet multi-plate disc brakes for service braking, emergency braking and retarding.
Continuous lubrication and cooling guarantee constant high braking capacity.
The wet multi-plate disc brakes are designed for a long service life even under extreme conditions.
The sealed design protects against environmental contamination. A minimum number of parts further enhances reliability.



Minimal risk of cracking

The use of a particularly high grade of steel has enabled the body to be built with only longitudinal stiffeners. No crossing „ribs" to increase stress concentrations.
The longitudinal stiffeners resist severe impacts against the sides of the body by distributing them over the entire body length.



High load factor

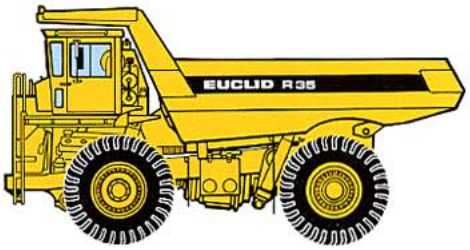
The R32 combines a very low net weight with a high load capacity. The high load factor – 1.36 – means that the hauler takes 1.36 tonnes of payload per tonne of net weight.
Reduced fuel consumption and reduced wear on tires and brakes are positive factors that follow from the low net weight.

R32

- *Engine output: SAE J1349 Net* — *272 kW (370 hp)*
- *Nominal load capacity* — *32 t (35,3 sh ton)*
- *Gross weight, loaded machine* — *55,6 t (122 600 lb)*

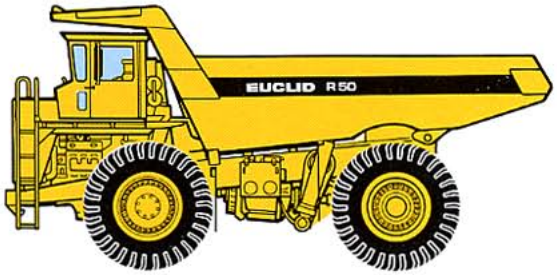
R35

- *Engine output: SAE J1349 Net* — *336 kW (450 hp)*
- *Nominal load capacity* — *35 t (38,5 sh ton)*
- *Maximum load capacity* — *36,6 t (40,4 sh ton)*
- *Gross weight, loaded machine* — *66,2 t (146 000 lb)*



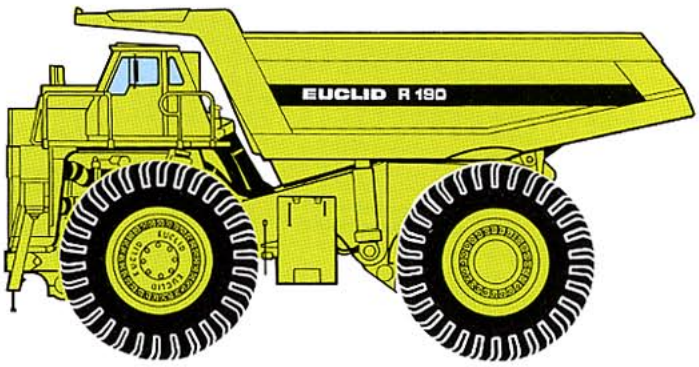
R50

- *Engine output: SAE J1349 Net* — *478 kW (641 hp)*
- *Nominal load capacity* — *50 t (55,1 sh ton)*
- *Maximum load capacity* — *52,7 t (58,1 sh ton)*
- *Gross weight, loaded machine* — *90 t (198 400 lb)*



Always an alternative

Euclid offers you the widest selection of rigid haulers on the market: from 32 to 190 tonnes (35 to 209 sh tons).
You can always find a machine that will give you the best possible haulage economy in relation to your existing fleet, production organization and capacity requirements.



	R85B	R100	R130	R170	R190
• *Nominal load capacity* t (sh ton)	85 (93,7)	100 (110,2)	130 (143,3)	170 (187,5)	190 (209,5)
• *Maximum load capacity* t (sh ton)	86,2 (95)	101,7 (112,1)	131,8 (145,3)	173,9 (191,7)	190,5 (209,9)
• *Gross weight, loaded machine* t (lb)	147,4 (325 000)	174,2 (384 050)	217,7 (479 950)	279,0 (615 080)	309,9 (683 200)

HIGH PRODUCTIVITY...
...FAST HAUL CYCLES

Easy to load

A very well-balanced body geometry results in a compact yet capacious unit with a low load height and a high center of gravity. The R32 has the lowest load height on the market for machines in this size class.

Fast and safe downhill transports

Effective and reliable brakes give the driver the security and the safety he needs for hauling of top speed. The R32 has duty-proven drum brakes with long service lives on all four wheels, plus a hydraulic retarder integrated in the transmission. The R35 and R50 have a combination of dry disc brakes on the front axle and wet multi-plate disc brakes on the rear axle, providing a pleasant, well-modulated braking effort. The wet multi-plate disc brakes have a retarder function that interacts with the automatic shift.

Always the right gear

Automatic shift increases operator comfort and productivity while reducing fuel consumption.

Superb directional stability

The wide track stance of the trailing arm design ensures high directional stability for the R35 and R50.
The R32 has mechanical feedback between the steering wheel and the road wheels. The steering angle is always proportional to the number of turns of the steering wheel.

Quick to the dumping site

The combination of favourable body geometry and efficient hydraulic system design results in short tipping and lowering times. No unnecessary time is wasted on the dumping site.
Exhaust heating of the body prevents the load materials from freezing fast, ensuring quick and effective emptying.

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