

# EL1000

## Longwall Shearer Feature Sheet



### Higher Productivity for the Long Run

Coal panels and face lengths are increasing – the average seam height is not. Maximizing productivity levels as the seam height diminishes requires the optimization of cutting power, haulage power, reliability, ease of maintenance and operator ergonomics. Enhanced safety features that address the challenges of mining lower seams also need to be provided.

As the boundary conditions for longwall operations evolve Caterpillar continuously develops solutions that will safely maintain or boost your productivity. For low seam shearer applications the most compact Cat solution yet will be there to deliver the results you expect: the new Cat EL1000. This latest addition to the successful range of Cat longwall shearers will cover seam heights from 63 to 126 inches (1.6 to 3.2 meters).



# EL1000 Longwall Shearer

## Meeting Tomorrow's Production Targets in Low & Medium Seams

The EL1000 shearer completes Caterpillar's range of shearers for maximum productivity now in seams from 1.6 to 7 meters.

## The Essence and More in Shearing Proficiency

A compact powerhouse for high productivity the EL1000 shearer makes maximum impact in low and medium seams:

- ▶ Cutting power: 1600 hp (2 x 500 kW)
- ▶ Haulage power: 2 x 134 hp (2 x 100 kW)
- ▶ Covering seam heights from 63 – 126 in (1.6 – 3.20 m)

## Designed and Tested for Long Life

The EL1000 shearer has a unique one-piece mainframe that not only protects all the modular components but also enables selective overhaul and modular unit exchange for the most efficient maintenance in the industry.

Component life, serviceability, durability and ease of operation – these parameters have all been validated by our own shearer test center in Germany.

## Just Watch Production Levels Rising

The EL1000 shearer operation, production levels and component condition can be monitored on site and from the surface.

The extremely powerful PMC<sup>®</sup> Evo-S control system offers enhanced automation and communication featuring state-of-the-art Ethernet communication. In consistent geological conditions the EL1000 can be operated in automated mode, keeping your personnel and productivity in the “safe zone”.

## Reduced Maintenance Times / Enhanced Safety

The new innovative two-piece trapping shoe design, with separate structural and wear elements, significantly reduces the weight to be handled during replacement from more than 500 kg (1,102 lb) for the typical trapping shoe to less than 50 kg (110 lb) per insert. This greatly improves the safety of performing the task itself while reducing the time required to complete it. Greater flexibility is another advantage. Because the weight to be handled is so much lower, change-out can be performed anywhere along the face since heavy lifting equipment, typically located only at the gate ends, is not required. The result: ease of handling and greater safety.

## More Cutting Time

Reliability and quality of manufacturing are the basis of every Cat<sup>®</sup> shearer success story. Good design and service will extend that reliability even more.

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