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Arch deploys Komatsu Joy 7LS5 longwall shearer at West

A Komatsu Joy 7LS5 shearer recently began production at Arch Resources' West Elk thermal coal

mine in Colorado, making it the sixth operating Joy 7LS5 shearer in the US. Komatsu states: "The

Some 23 years later, this machine is still in operation, a consistently dependable unit for that mine.

Currently, Joy shearers are operating at all the underground longwall mines in the US. The 7LS5

reliable 7LS5 model shearer was introduced in 1999 to Peabody Energy Shoal Creek mine as a

solution in mid-to-high seams in some of the most challenging conditions in the world."

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Posted by Paul Moore on 29th January 2023

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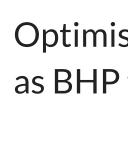
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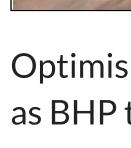
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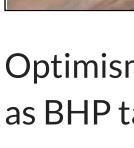
shearer mines coal seams from 2 to 4.5 m and has a maximum machine height of up to 1.9 m with a weight of 81.7 t. It has a haulage pull of 800 kN, pump motor power of 20 kW, haulage motor power of 2 x 110 kW, lumpbreaker motor power of 130 kW and maximum cutting motor power of $2 \times 750 \text{ kW}$. Joy shearers are designed to be robust, provide high availability, and feature a modular design. The body consists of a controller case and two haulage cases to form a rigid structure with no underframe. The two ranging arms feature gears designed and produced by Joy using propriety

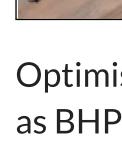
processes that Komatsu says play a crucial role in maximising performance. The Faceboss control system, featured on Joy underground mining equipment, helps maximise productivity and features a powerful tool set including advance diagnostics and user friendly, multi-lingual displays. Optional features like advanced shearer automation assists operators in maximising productivity by programming cutting profiles and gate end turnarounds.

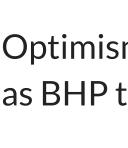


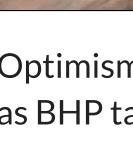


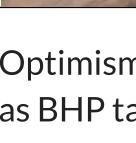


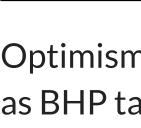


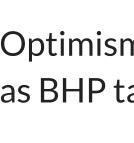


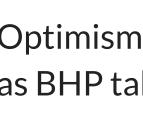


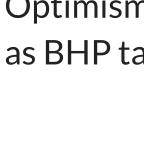


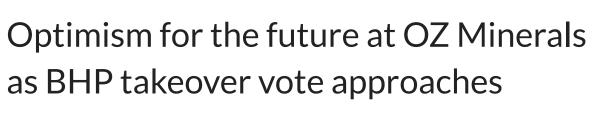


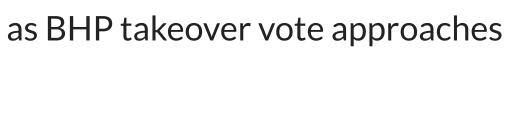
















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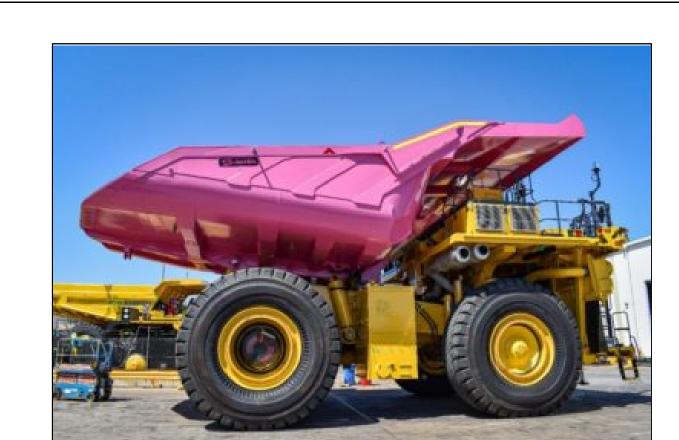
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