

CAT[®] CM445 CONTINUOUS MINER

Potash Specialist



Potash is in Demand

As a key ingredient in agricultural fertilizers, there is a growing demand for Potash, a rock-like salt that originates from evaporated inland seas. For underground deposits, room and pillar mining is often the most economical means of extracting this hard ore body. At Caterpillar, we have a continuous miner that excels in this tough cut environment; the CM445.



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Tough Cutting with the CM445

Blasting hard to cut mineral has both safety and cost implications. That's where the Cat CM445 continuous miner has the potential to add value to your potash mining operation. Our CM445 is a tough-cut specialist, with the power and mass to work in this hard-cutting rock salt.

For sumping and cutting this tough material, the CM445's cutting head has two electric motors with a combined power rating of 670 hp (492 kW). The dynamic forces created by this kind of power require hard-core engineering and manufacturing excellence. Our structures are made with special weld patterns, uniquely sized bearings and gear bevel geometries to prevent deflection and provide the long-term reliability you need.

In addition to its cutting strength, this machine has the mass and tractive effort to work effectively on hard ground. Traction is carefully managed and delivered by two 110 hp (82 kW) AC motors with Variable Frequency Drive (VFD). VFD enhances tramming performance and delivers power only when you need it.

Because potash dissolves in water, the CM445 can be ordered with minimal dust suppression nozzles and uses a combination of oil and air cooling of machine systems.

If you're considering a CM445 for your Potash mine, Caterpillar can also offer you downstream haulage solutions that are matched perfectly with the CM445's output capabilities. Our transportation products are respected in the industry and purpose built to work as a cohesive system. Our solutions approach to room and pillar mining is one way we can help you raise your production and efficiency. Our goal is your longer term success, and with Caterpillar and your Cat dealer standing behind you, we're a team that's built for it.

For more information about the CM445 continuous miner and all Cat underground mining products, please visit us at www.Cat.com.



CAT® CM445 SPECIFICATIONS

Recommended Mining range:	1651 - 3480 mm (65" - 137")
Minimum Height:	1499 mm (59")
Maximum Reach:	3785 mm (149")
Cutting Drum power:	2 x 246 kW (2 x 335 hp)
Loading Capacity:	14 - 35 tonnes/min (15 - 39 tons/min)
Conveyor power:	2 x 48 kW (2 x 65 hp)
Traction power:	2 x 82 kW (2 x 110 hp)
Total installed power:	801 kW (1085 hp)

*power ratings are for one hour

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at mining.cat.com and cat.com

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