Wirtgen 4200 SM
is Large-Production Surface Miner

The powerful new Wirtgen 4200 SM is a high-performance surface mining machine for operators and customers in large-scale surface mines, whose goal is an annual mining capacity in coal or soft rock of up to 12 million tons with a single machine.

The 4200 SM is a 200-plus-ton surface miner that stands nearly 22 ft. tall excluding conveyor, cuts over 13 1/2 ft. wide, and is emblematic of Wirtgen’s leadership in surface mining and minerals processing technology.

Surface mining with a Wirtgen machine allows selective mining that enables cutting, crushing and loading in a single working pass. Wirtgen surface miners are rugged, economical machines that offer big advantages over conventional surface mining techniques under everyday mining conditions in open-cast mines.

Wirtgen’s mobile surface miners cutting, sizing and loading material in one pass achieve great savings in machinery and personnel costs, while allowing continuous refinement of pit drainage and haul patterns at the same time.

The 4200 SM is available to customers in two different designs: one for use in various types of soft rock including, for example, coal, lignite, gypsum or limestone; and the other, as a powerful miner for hard rock, such as iron ore or bauxite.

Specifically, the 4200 SM has a cutting width of 13.78 ft (4.20 m) and is capable of working at a maximum cutting depth of 32.7 in. (83 cm) in soft rock.

The heavy-duty machine is equipped with a 16-cylinder diesel engine from Cummins, making it the ideal candidate for a wide range of applications as its rated horsepower of 1,624 offers tremendous reserve capacity. Being the most powerful machine in the surface miner division, the 4200 SM complements Wirtgen’s product portfolio in the upper performance class.

A two-stage conveyor system with 5.9-ft.-wide primary and discharge conveyors, and optional discharge conveyor lengths of 39 to 53.5 ft., support the surface miner’s impressive cutting performance of up to 4,000 short tons per hour. The conveyor’s large slewing angle of 180 deg, flexible height adjustment and variable conveyor belt speed ensure smooth loading of large haul trucks even in restricted space conditions.

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