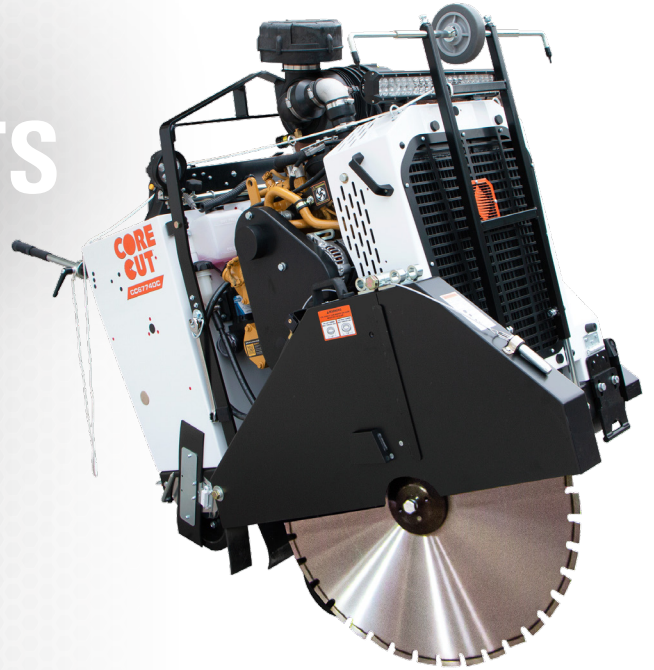


DIAMOND PRODUCTS AND CATERPILLAR WALKING TALL

POWERING A NEW WALK BEHIND SAW BROUGHT
TWO INDUSTRY HEAVYWEIGHTS TOGETHER



CUSTOMER:

Diamond Products

PRODUCT:

CC6774DCV Walk Behind Saw

LOCATION:

Elyria, Ohio

SCOPE OF ENGINE USE:

Cat® C2.2 – 55 kW (EU Stage V)

CAT® DEALER:

Ohio Cat

www.ohio-cat.com

WEBSITE:

www.diamondproducts.com/

Diamond Products is one of the largest diamond tool and equipment manufacturers in the United States. For over 50 years, it has designed and built tools to take the construction industry to new heights, and the company does not rest on its laurels.

Diamond Products has recently unveiled the CC6774DCV Walk Behind Saw as the next generation of the company's highest volume model, the CC6571D. While the CC6571D is a popular machine, Diamond Products wanted to better serve customers in the construction industry with a walk behind saw with a Stage V engine and more horsepower.

MORE TORQUE AND MORE SUSTAINABILITY

Adding power to construction equipment is a delicate balance. Engineers want to increase horsepower without sacrificing efficiency or increasing equipment size. Diamond Products chose to equip the CC6774DCV with a Cat® C2.2 EU Stage V/U.S. EPA Tier 4 Final IPU Engine. The compact size and power density of the engine was the biggest factor in choosing this power source, making the CC6774DCV more sustainable with reduced emissions.

The engine wasn't the only upgrade. The CC6774DCV utilizes Kevlar belts, which increase torque-carrying capacity by up to 50%. The rear propulsion is also improved. The design included replacing the hydrostatic transmission and geared axle with dual hydraulic motors.

"We want to ensure operator safety and don't want to see our blades over-spun, so we added blade speed regulating software." – Miki Pavlovic, Director of Quality and Engineering, Diamond Products

Diamond Products added blade speed regulator software to the CC6774DCV Walk Behind Saw to prevent operators from over-speeding the blade. "It simplifies the user interface," says Miki Pavlovic, Director of Quality and Engineering at Diamond Products. "We have a single-speed and a 3-speed version. Both have blade shaft speed sensors that can safely govern and maintain the speed of the blade."



FEATURED TOPIC:

Cat® C2.2 EU Stage V/
U.S. EPA Tier 4 Final IPU Engine

The CC6774DCV features optional Cat Connect technology to help construction businesses improve machine uptime and increase overall productivity. Electronic depth indication allows an operator to know precisely how deep they're cutting while in action. This is an upgrade from the previous saw model that used a mechanical indicator.

ADJUSTING FOR COMPACT POWER

Diamond Products stays in tune with their customers. Knowing construction businesses and utilities need to haul a lot of equipment to a jobsite, Diamond Products focused on creating a walk behind saw that was both compact and powerful. The CC6774DCV Walk Behind Saw has enough power density to get the job done but doesn't take up too much space. The Cat C2.2 Stage V IPU engine fits the bill to provide power in a limited space.

"It's all about space. The CC6774DCV saw is often used for highway and road construction. That's a dangerous place to work, and you want to keep the operator as far from traffic as you can. We try to make it as compact as possible for that reason." – Miki Pavlovic, Director of Quality and Engineering, Diamond Products

The shorter frame length and a simple design make the CC6774DCV Walk Behind Saw unique to the industry. It's easier to maintain than most larger saws. Some smaller or mid-sized saws have a similar design, but the CC6774DCV provides more power.

A POWERFUL COMPANION

When development began for the CC6774DCV in March 2022, Ohio Cat was there to help with the engine installation and to make sure the power source would be sufficient. This collaboration was beneficial to both sides. "Their engineers are sharp," says Ohio Cat Industrial Engine Sales Representative Matthew Abahazi. "When Diamond Products engineers come to the table asking questions, they've done a considerable amount of homework prior, and I'm really just putting icing on the cake. They're really thorough."

All the hard work and planning paid off. The development process for the CC6774DCV took about 12 months, with Diamond Products now taking orders for the new saw.

"We're really excited about this project, taking one of our best-selling saws and upgrading it. There's an opening price point option and a lot of features that can be added based on the user preferences and application." – Miki Pavlovic, Director of Quality and Engineering, Diamond Products



“The Cat[®] engine’s compact size and power density fit perfectly with the new CC6774DCV.”

LET'S DO THE WORK.™

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