



CUSTOMER:

ARBMAX

PRODUCT:

F30 12-inch-disc wood chipper

LOCATION:

Northern Ireland

SCOPE OF ENGINE USE:

Cat® C3.6 EU Stage V Industrial Engine

CAT® DEALER:

Finning

FEATURED TOPICS:

Cat® C3.6 EU Stage V Industrial Engine

A POWERFUL NEW MACHINE IS CLEARING THE WAY IN FORESTRY

ARBMAX's skilled workforce brings decades of experience in the heavy machinery industry to the wood chipping market. What sets ARBMAX apart from the competition is their dedication to superior quality, producing robust and durable products that offer extended machine life.

"We wanted to approach wood processing from a different viewpoint," says ARBMAX Engineer Director, Paul Quinn. "We wanted products that were over-engineered and more durable than what we've seen in the market. Wood chipping is difficult work and hard on machinery. We wanted to introduce more quality."

A MIGHTY, MEDIUM-SIZED WOOD CHIPPER

ARBMAX designed the F30 12-inch-disc wood chipper for state-of-the-art performance. The F30 can process wood faster than its competitors, allowing arborists to get their work done more efficiently. With a 12-inch capacity, the F30 is a medium-sized wood chipper, but it's still an effective tool for any size operation. The combination of high torque and aggressive feed-wheels allows this machine to handle even the most challenging materials.

CATERPILLAR CHIPPED IN TO SUPPLY THE POWER

A wood chipper is one of the most intense machines for an industrial engine. The F30 runs at full load for long intervals. The engine is either running at 100% capacity or is fully stopped. When high engine loads drop off, the engine can over-fuel, and that causes soot to build up in the diesel particulate filter (DPF). ARBMAX chose the Cat® C3.6 EU Stage V Industrial Engine to power the F30—in part because of how well it handles load capacity without the need for manual regenerations. "It was even surprising for us," says Quinn, "since those issues are usually very common

Because wood chippers must be towed in and out of heavily wooded areas, space and size are always at a premium. The Cat C3.6 engine delivers the power density and torque needed in a compact size to fit the smaller F30 frame. "It's the ideal engine for the F30 wood chipper,"

on other engines."

POWER PROFILE: A POWERFUL NEW MACHINE TO THE WOOD CHIPPING INDUSTRY

says Quinn. "It's the highest torque unit for its size, and torque really does all the work when you're chipping."

By utilising the C3.6 in its operations, ARBMAX is keeping its eye on sustainability. The C3.6 is a Stage V engine that reduces harmful emissions like carbon monoxide and diesel soot, while still delivering 5% more power and 12% more torque. Now, ARBMAX can maximise their productivity while minimising environmental impact.

ARBMAX supplies equipment anywhere there are trees, with most of its units operating in North America and Asia. It relies on the extensive Cat Dealer Network to offer support. "I don't think anybody comes close to the kind of service network that the Cat dealers offer," says Richard Lavery, Director at ARBMAX. "That was a big factor for us. People recognise the Cat brand instantly, and they know if something goes wrong with an engine, they're going to get that support."

THERE'S A CLOSE COLLABORATION BETWEEN FINNING AND ARBMA

The engineers at ARBMAX turned to Finning, their local Cat dealer, to configure the engine for the F30 wood chipper. The close relationship helped while working on a tight schedule for the release of the machine. "Finning was fantastic at being able to support us," says Quinn. "With

fairly quick lead time, they were able to get us up and going with an engine. They got a prototype built in a relatively short frame of time. And, the technical support team there have always been excellent in terms of answering any of our questions."

FORESTRY INCREASES SUSTAINABILITY

Ash dieback disease is threatening forests, and the F30 has been a versatile tool in helping with tree-removal efforts. Chipping wood is more than a method of volume reduction. Because the biomass market is growing across the globe, wood chips are a valuable commodity. The wood chips from felled ash trees can be transformed into renewable

energy. "Wood chips can be used to create heat and electricity," says Quinn. "It takes high-quality machinery to produce the right grade of wood chip for biomass use. The F30 fills that need in a growing marketplace."



GROWING TO FILL A NEED FOR WOOD CHIPPING

ARBMAX is a rather new supplier of wood processing equipment, and it plans to grow the business to produce larger equipment in the future. ARBMAX will soon be offering the D45, an 18-inch wood chipper that will be the largest machine available under 3.5 tons in the industry.

This weight is important because it will allow the machine to be legally towed in Europe. ARBMAX will continue to work with Finning for its growing power requirements.

