

TESMEC RELIES ON CATERPILLAR ENGINES IN THE TRENCHES



TESMEC

CUSTOMER:

Saudi Tesmec

LOCATION:

Saudi Arabia

EQUIPMENT:

Tesmec 1875XL EVO Chainsaw Trencher

SCOPE OF ENGINE USE:

Cat® C32 EPA Tier 4 Final

CAT® DEALER:

CGT

Tesmec began in Italy in the 1950s as a family company designing machinery for stringing power lines. Tesmec has grown into a global leader in trenching equipment, producing customisable trenchers that are effective in all climates and conditions, from the permafrost ground of Siberia to the rocky deserts of Saudi Arabia. [The Saudi Arabia subsidiary of Tesmec](#) was created in 2010, after a major bulk rock excavation project.

INTRODUCING A REVOLUTIONARY TRENCHER

Tesmec started developing the 1875XL EVO Chainsaw Trencher in 2022. Released in 2023, it's an innovative trencher, specialising in deep trenching for large-diameter pipelines. The massive, 160-ton machine can dig trenches up to 732 cm deep and 213 cm wide, surpassing industry standards. Some 1875XL EVO machines are tasked to work around the clock, producing trenches for big oil gas pipelines.

“We have clients who are using our machines up to 24 hours a day,” says Marco Paredi, Trenchers Business Unit Director. “Our trenchers need to be reliable because they lead the productivity of all other equipment on the jobsite. That’s why the Tesmec team is always available to our clients on-site to organise parts needed, train operators and provide logistics.”



POWER PROFILE

PROVIDING BIGGER SOLUTIONS FOR A GROWING INDUSTRY

In the trenching industry, there is high demand for bigger and more powerful machines. The Tesmec 1875XL EVO Chainsaw Trencher is the largest and most powerful in its class, so it requires a powerful engine to achieve the necessary 950 HP for efficient operation. [The Cat® C32 EPA Tier 4 Final engine meets](#) the power and reliability needs of the 1875XL EVO. Marco Paredi, Trencher Business Unit Director says, "If we have an engine that's not performing, then it would be recognised as a Tesmec failure because our name is on the machine. That's why we choose Caterpillar engines."

SUPPORTING A GLOBAL COMPANY ACROSS SEVEN CONTINENTS

The size and scope of the Cat C32 engine made it the logical choice for the Tesmec 1875XL EVO Trencher, but the benefits of working with Caterpillar go beyond power. [Tesmec relies on the service of its Cat Dealer, CGT](#), for support before, after and during jobs. "We've had a great experience with the global support from Caterpillar for sure," says Paredi. Flavio Villa, Chief Technology Officer of the Trencher Business Unit, adds, "We were impressed with their speed and service. CGT always has the parts for engines whenever we need them."

CGT was also instrumental during the development of the engine installation for the 1875XL EVO Trencher. Through remote meetings with CGT engineers, Tesmec was able to clarify doubts and evaluate decisions. CGT engineers led the validation of the engine installation project and attended the validation of the prototype engine installation, where the machine was run at 100% load factor at the brake bench.

BREAKING NEW GROUND IN SUSTAINABILITY

Electrification and sustainability can be difficult when dealing with the machine sizes and ground conditions in trenching, but Tesmec is leading the charge in the industry. Tesmec has launched the very first electric trencher in the world. "That's a big milestone for our company towards sustainability," says Villa. "Electrification is something we've been striving to reach for years now."



"We sleep much better at night knowing we can rely on Caterpillar."

—Marco Paredi, Trenchers Business Unit Director