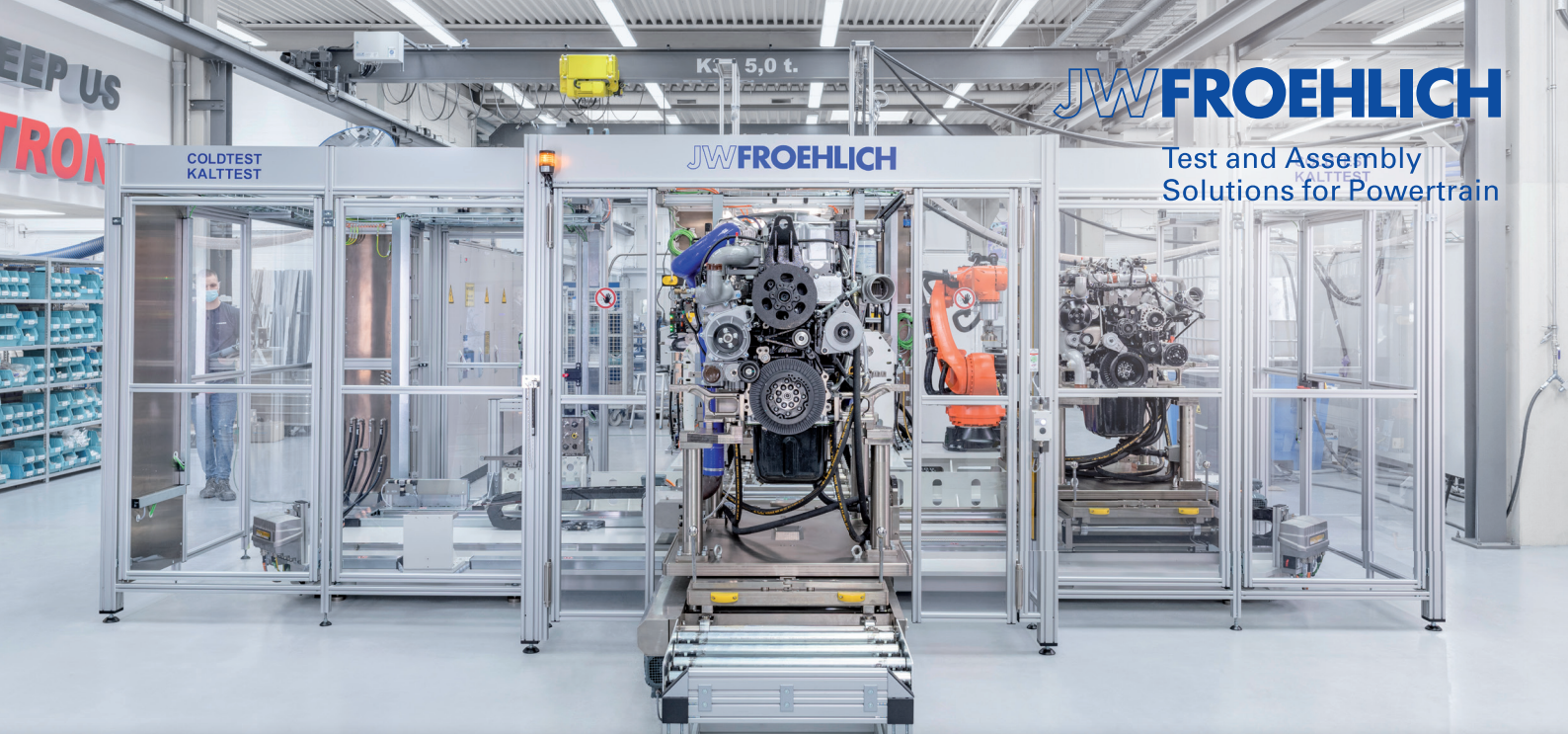




Cold Testing for Truck Engines

Experience generates quality.

End-of-line test stands for truck gas and diesel engines



Cold test stands for various types of engines – developed with expertise

Ambitious emission reduction targets make engine technology more complex and testing needs more demanding. In this context, the Chinese engine manufacturer Yuchai was looking for a system for their end-of-line testing that would combine high test quality for many different types of engines and low investment and operating costs. The cold test stands ordered from JW Froehlich were tailor-made to meet these requirements.

Test stand	2 cold test stands
Test part	Truck gas and diesel engines
Location	Yulin (China)
Special requirements due to the pandemic	Successful order processing and shipment acceptance online/remotely

Cold testing has been state-of-the-art in quality and functionality testing for 25 years. This method is used in end-of-line testing to ensure upstream assembly steps have been completed correctly and that engines are fully functional. In modern truck engine production, cold testing has largely replaced hot testing thanks to high precision, little environmental impact and low cost.

The project of Yuchai: End-of-line test stands for truck gas and diesel engines

Maximum quality as benchmark

Yuchai, headquartered in Yulin (China), manufactures truck engines. In search of the ideal end-of-line test stand, they initially commissioned two local companies but these were not able to meet the requirements. In the end, Yuchai turned to JW Froehlich, as maximum quality was the number one priority for the planner responsible for the project.

Many different emissions standards – many different engines

China has been tightening emissions standards for internal combustion engines, and this also affects the truck sector. In addition, engine manufacturers such as Yuchai face the challenge of having to test many different types of engines, for which they need end-of-line test stands that are able to reliably test the quality and functionality of all types of engines at particularly low cost.

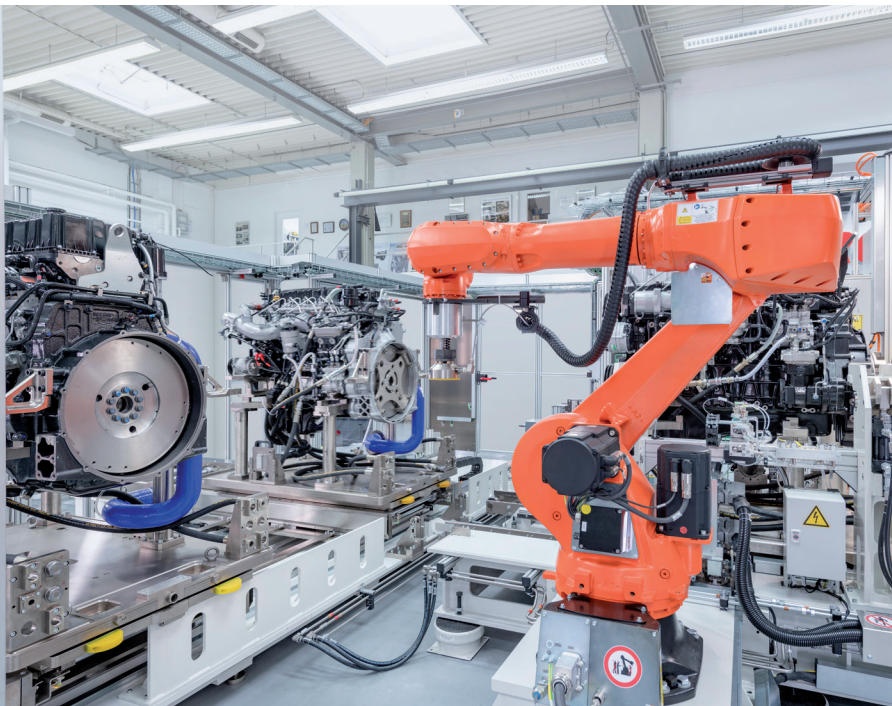
Cold test stands for up to 20 engine types

JW Froehlich developed two cold test stands for Yuchai that have the technological capability to test up to 20 type of engines. The solution was developed in close cooperation with the client, and a number of specifications were not set until after the stands had been commissioned. As a result, the entire process required flexibility and open-mindedness.

Flexible test system – low operating costs

As the developed test stands are able to inspect many different types of engines, Yuchai did not have to purchase several separate test systems. Instead, they ordered two end-of-line test stands that met all their requirements, reducing investment costs considerably. Sophisticated cold test technology causes no emissions and ensures no coolant is needed.

The result: lower environmental impact, shorter test times – and thus reduced operating costs.



Have we piqued your interest?

For questions about the project and its technical details, please refer to your direct contact:

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