



TIGON

T E C H N O L O G Y



TIGON

TECHNOLOGY



Technology that is creating a new world.

There are some innovations that change the game rules. Innovations that create a whole new world of opportunities. Innovations that overthrow what we thought was possible and that take an enormous step forward in development.

Allow us to present our full hybrid technology – Tigon Technology.





TAKING CHARGE

You will call it ingenious.
We call it Tigon Technology.

Allow us to present Tigon Technology – a revolution within construction machinery that makes it possible to achieve up to 30% greater output than the diesel engine alone is able to produce.

Full hybrid technology, which combines diesel and electric power, generates and regenerates energy in a way that has never before been possible for construction machinery. The technology produces higher efficiency and improved performance, resulting in lower fuel consumption, greater output, higher torque, a quieter machine and a more environmentally friendly working method.

And these are just a few of the many benefits.

Full hybrid technology that
generates more accessible energy.

How Tigon Technology works:

The diesel engine powers three EMGs (electric motor-generators) which supply power to the pumps for the operating hydraulics. If necessary, the EMGs can charge a lithium battery. In a different operating situation, the EMGs use the output from both the diesel engine and additional output from the battery, to supply higher output power than that supplied by the diesel engine on its own. The energy from the diesel engine and/or the battery, possible via a charging socket, can be used in any way for the operating hydraulics or for propulsion. Both the operating hydraulics and transportation can be powered solely using electric power when required.

The EMGs are significantly more efficient than a conventional mechanical powertrain, and as the EMGs for propulsion are connected directly to the wheels via hub reductions, the losses are minimal.



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