

HYBRID TECHNOLOGY IN FOREST MACHINES

Logset, a leader in solutions for sustainable forestry, has developed the world's first hybrid harvester. The Logset 12H GTE Hybrid offers a significant increase in power and torque. The hybrid system is integrated into the diesel engine, and automatically assists it when the harvester needs more power.

The 300 hp diesel engine runs at a constant pace, while the hybrid system provides up to 210 hp of additional power required in a typical felling and processing cycle. This allows the hybrid harvester to easily perform several tasks at the same time, while keeping the engine load constant.

510 hp
380 kW
Powerful

15-30 %
lower
CO₂ emissions

-5 %
noise level
reduction

25 %
fuel saving

10-30 %
lower running
costs compared
to traditional
technology

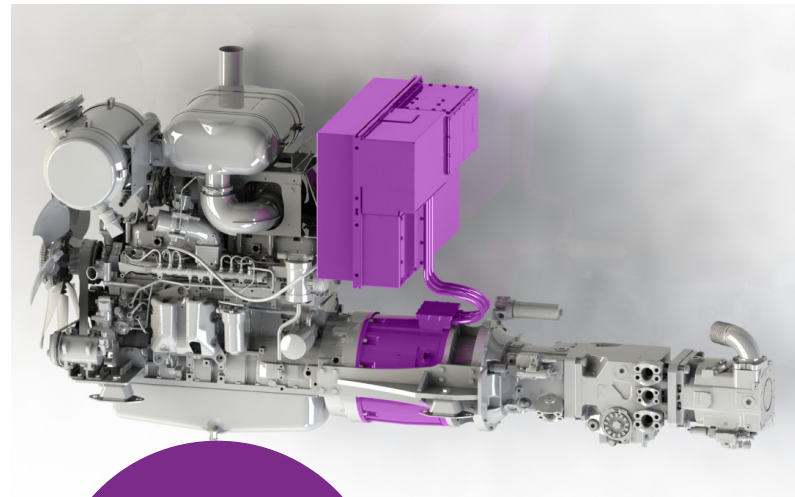
**Higher
productivity**
through faster
torque response

+ WHY HYBRID TECHNOLOGY?

The hybrid technology of the Logset 12H GTE Hybrid increases the working efficiency of the harvester by 27% compared to traditional forest machine technology. It significantly reduces the fuel consumption and emissions per felled cubic meter, which benefits both the owner and the environment.

+ HOW DOES IT WORK?

The hybrid system's two main parts are the electric motor and the supercapacitors used as energy storage. When the engine load is normal, the electric motor functions as a generator charging the supercapacitors. When there are peaks in the engine load, the electric motor discharges the surplus energy to provide additional torque to the pumps.



**The hybrid
technology is
Simply Clean**



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