GF Machining Solutions

MILL E series

Energy Efficiency Certificate

Operating mode (24h cycle time)	HEM series (2012)	MILL E series (2024)	Energy saving %	Achieved by
Standby (4h)	5.0 kW	2.6 kW	-48%	1,2,3
Ready (4h)	5.5 kW	3.1 kW	-43%	1,2,3
Machining (16h)	7.9 kW	5.5 kW	-30%	1,2,3,4
Daily Energy Consumption	**168.4 kWh**	**110.8 kWh**	**-34%**	

All measurements were made in accordance with measurement standards as defined in ISO 14955

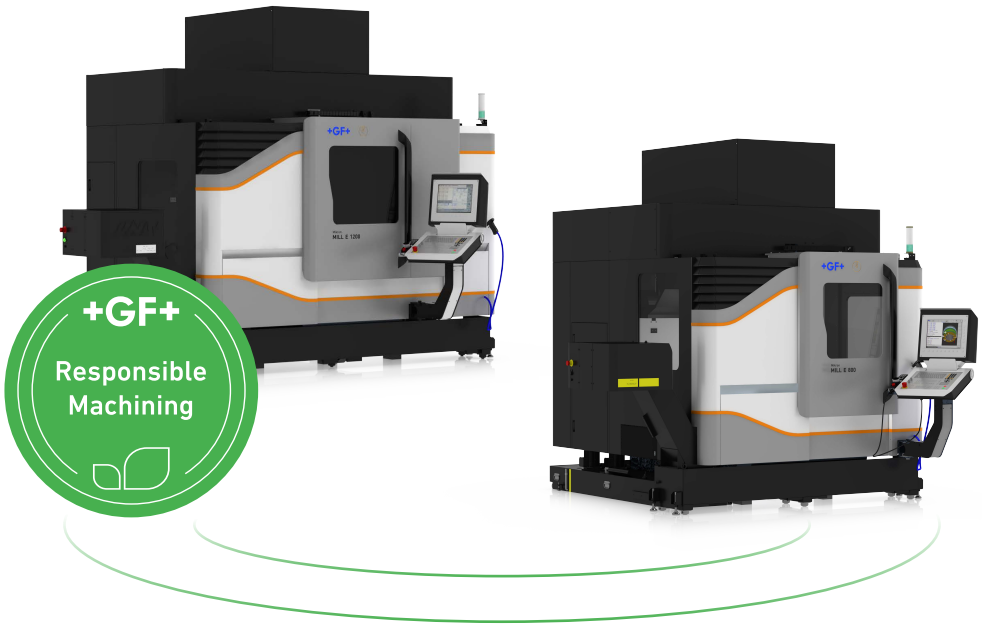
Improvements

New control generation (1)
The change to a new CNC, Heidenhain TNC 620 Gen3, improves the control efficiency.

Highly efficient exhauster system (2)
The implementation of a Venturi nozzle in the exhauster system helps to significantly reduce the compressed air usage.

Design (3)
Several design changes, like switching to LED lights, also help improve the energy efficiency.

ITC – Intelligent Temperature Control (4)
The continuous improvements made on this software help compensate the temperature fluctuations and further increase the precision of the new generation of Milling machines.



The energy saving per year is equivalent to greenhouse gas and CO2e emissions from:

693,329 smartphones charged

43,227 kilometers driven by an average passenger car

carbon sequestered by **174** tree seedlings grown for 10 years

We continuously improve our environmental performance

Source: www.epa.gov

Comparison between HEM 800/1200 (2012) and MILL E 800/1200 (2024)

MILL E series: October 2024