

Responsible

MILL P U series

Energy Efficiency Certificate



Standby (4h)	6.8 kW	5.9 kW	-15%	1,2,3	
Ready (4h)	8.2 kW	7.1 kW	-15%	1,2,3	-
Machining (16h)	12.9 kW	11.8 kW	-9%	1,2,3,4	•

Daily Energy Consumption 266 kWh 241 kWh -9%

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

1 // New control generation

The change to a new CNC, Heidenhain TNC 640, improves the control efficiency.

2 // Highly efficient exhauster system

The implementation of a Venturi nozzle in the exhauster system helps to significantly reduce the compressed air usage.

3 // Design

Several design changes, like switching to LED lights, also help improve the energy efficiency

4 // ITC – Intelligent Temperature Control The continuous improvements made on this software help compensate the temperature fluctuations and also significantly increase the already improved precision of the new generation of Milling machines.

Equivalent to, over 1 year greenhouse gas and ${\rm CO_2}$ emissions from



562,494

smartphon charged

2015 -----



carbon sequestrated by

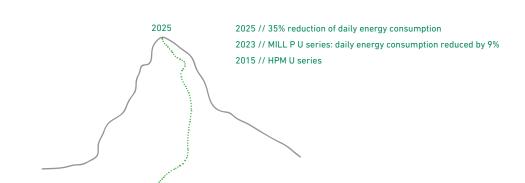
76

tree seedlings grown for 10 years

Source: www.epa.gov



18,472 kilometers driven by an average passenger car





MILL S U series

Energy Efficiency Certificate



Operating mode (24h cycle time)	HSM U LP (2015)	MILL S U (2023)	Energy saving %	Thanks to GF
Standby (4h) Ready (4h) Machining (16h)	6.1 kW 6.7 kW 11.6 kW	5.2 kW 5.9 kW 10.2 kW	-17% -14% -14%	1,2,3 1,2,3 1,2,3,4
Daily Energy Consumption	237 kWh	207 kWh	-13%	

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Equivalent to, over 1 year greenhouse gas and ${\rm CO_2}$ emissions from



674,993 smartphones

smartphor charged

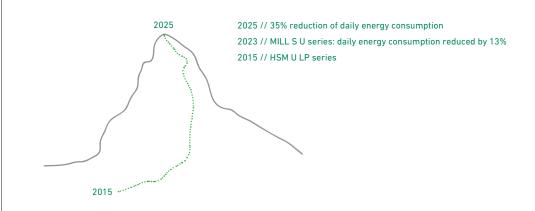


carbon sequestrated by

92

tree seedlings grown for 10 years

kilometers driven by an average passenger car Source: www.epa.gov





MILL X U series

Energy Efficiency Certificate





Operating mode (24h cycle time)	XSM U LP (2015)	MILL X U (2023)	Energy saving %	Thanks to GF
Standby (4h) Ready (4h) Machining (16h)	7.9 kW 8.5 kW 13.6 kW	7.0 kW 7.1 kW 13.1 kW	-13% -20% -4%	1,2,3 1,2,3 1,2,3,4
Daily Energy Consumption	282 kWh	265 kWh	-6%	

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

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Equivalent to, over 1 year greenhouse gas and ${\rm CO_2}$ emissions from



382,496

smartphor charged



carbon sequestrated by

52

tree seedlings grown for 10 years

kilometers driver by an average passenger car Source: www.epa.gov

