

MILL P U series

Energy Efficiency Certificate



Operating mode (24h cycle time)	HPM U (2015)	MILL P U (2023)	Energy saving %	Thanks to GF
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 CO₂ emissions from



562,494
smartphones charged

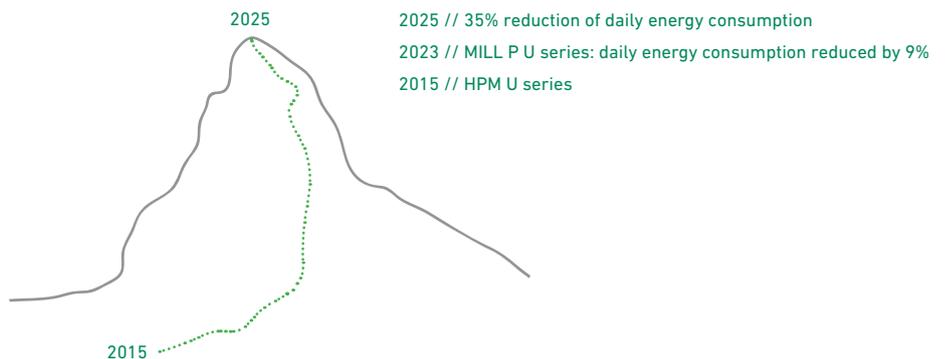


carbon sequestered by
76
tree seedlings grown for 10 years



18,472
kilometers driven by an average passenger car

Source:
www.epa.gov



MILL S series

Energy Efficiency Certificate



Operating mode (24h cycle time)	HSM (2015)	MILL S (2023)	Energy saving %	Thanks to GF
Standby (4h)	4.9 kW	4.0 kW	-22%	1,2,3
Ready (4h)	5.1 kW	4.3 kW	-18%	1,2,3
Machining (16h)	9.9 kW	8.5 kW	-16%	1,2,3,4
Daily Energy Consumption	199 kWh	169 kWh	-17%	

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Equivalent to, over 1 year greenhouse gas and CO₂ emissions from



674,993
smartphones charged

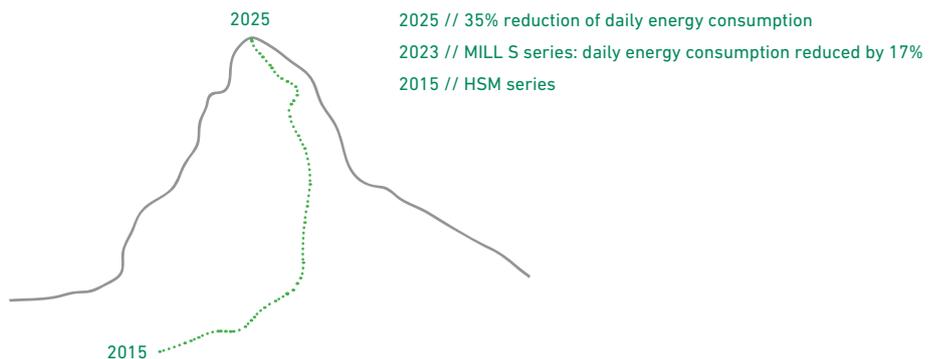


carbon sequestered by
92
tree seedlings grown for 10 years



22,893
kilometers driven by an average passenger car

Source: www.epa.gov



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)	6.1 kW	5.2 kW	-17%	1,2,3
Ready (4h)	6.7 kW	5.9 kW	-14%	1,2,3
Machining (16h)	11.6 kW	10.2 kW	-14%	1,2,3,4
Daily Energy Consumption	237 kWh	207 kWh	-13%	

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Equivalent to, over 1 year greenhouse gas and CO₂ emissions from



674,993
smartphones charged

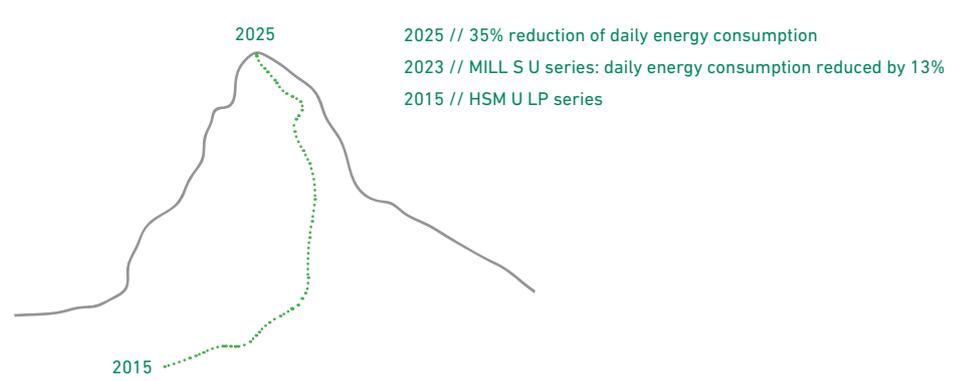


carbon sequestered by
92
tree seedlings grown for 10 years



22,167
kilometers driven by an average passenger car

Source: www.epa.gov



MILL X

Energy Efficiency Certificate



Operating mode (24h cycle time)	XSM LP (2015)	MILL X (2023)	Energy saving %	Thanks to GF
Standby (4h)	5.7 kW	4.8 kW	-19%	1,2,3
Ready (4h)	6.6 kW	5.8 kW	-14%	1,2,3
Machining (16h)	11.1 kW	9.7 kW	-14%	1,2,3,4
Daily Energy Consumption	226 kWh	197 kWh	-15%	

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 CO₂ emissions from



652,493
smartphones charged

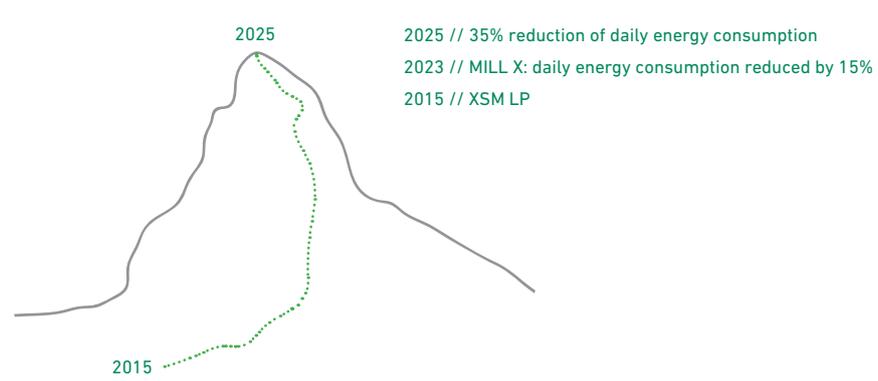


carbon sequestered by
89
tree seedlings grown for 10 years



22,130
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)	7.9 kW	7.0 kW	-13%	1,2,3
Ready (4h)	8.5 kW	7.1 kW	-20%	1,2,3
Machining (16h)	13.6 kW	13.1 kW	-4%	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 CO₂ emissions from



382,496
smartphones charged



carbon sequestered by
52
tree seedlings grown for 10 years



12,560
kilometers driven by an average passenger car

Source: www.epa.gov

