



PICO

HF and MF GENERATORS

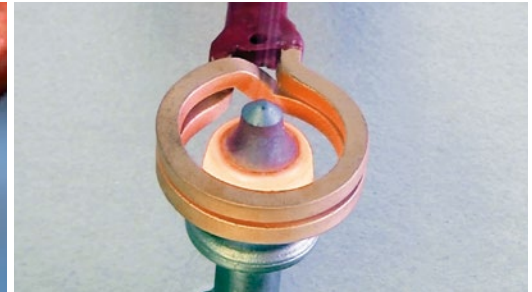
small, red, strong and low-cost





PICO

PICO by eldec: Standard generators with one output and simple handling. Available in two housing sizes and numerous power classes. Just Heat!



The basic physical principle of induction heating enables maximum energy efficiency and, in conjunction with a high-quality and therefore durable product, the greatest possible sustainability.

Heating takes place exactly where it is technically necessary, without heating the surroundings or heating workpiece areas that can remain cold.

An induction heating process is powered by electricity and is therefore CO₂-free if powered by renewable energy. Without gas or flame, precise and exactly reproducible.

PICO-S and PICO-L are low-priced generators in uncompromising eldec quality due to high standardisation of the components. PICO generators are offered as medium-frequency and high-frequency generators from 5 to 150 kW for inductive heating of a wide variety of workpieces and materials. They are extremely compact: e.g. the PICO-S generator (desktop housing size)

is available with 30 kW MF - the best volume-to-power ratio on the market. Thanks to the intuitive operator guidance, plug & play is truly reality. Continuous, jog or timer operation, regulation according to output, current, temperature and recipe memory management are standard features.

PICO Generators – High Frequency and Middle Frequency

eldec PICO generators are used as medium-frequency and high-frequency energy sources, from 5 to 150 kW, for induction heating of a wide range of workpieces and materials.

PICO generators are extremely compact with maximum power density and are

and are characterised by handling.

HF power: 25 - 75 kW
HF frequency range: 70 - 175 kHz

MF power: 5 - 150 kW
MF frequency ranges: 70 - 175 kHz

If you have additional requirements, such as higher output power, multiple outputs, frequency switching, low frequencies, dual frequencies or simultaneous frequencies (LF, DF, SDF®), eldec offers customisable solutions based on its ECO LINE and CUSTOM LINE series.

High Frequency

Type Rated power	Mains Connections +/- 10% 50/60Hz	Required cooling water without inductor l/min	Dimensions H x W x D mm	Weight Generator kg
PICO-S 5 HF	3 x 400 V 10 A	8	450 x 280 x 510	50
PICO-S 10 HF	3 x 400 V 20 A	8	450 x 280 x 510	50
PICO-S 15 HF	3 x 400 V 32 A	8	450 x 280 x 510	50
PICO-L 25 HF	3 x 400 V 50 A	11	550 x 910 x 800	150
PICO-L 35 HF	3 x 400 V 63 A	12	550 x 910 x 800	150
PICO-L 50 HF	3 x 400 V 100 A	27	550 x 910 x 800	160
PICO-L 75 HF	3 x 400 V 160 A	32	550 x 910 x 800	180

Middle Frequency

PICO-S 5 MF	3 x 400 V 10 A	8	450 x 280 x 510	50
PICO-S 10 MF	3 x 400 V 20 A	8	450 x 280 x 510	50
PICO-S 15 MF	3 x 400 V 32 A	8	450 x 280 x 510	50
PICO-S 20 MF	3 x 400 V 35 A	10	450 x 280 x 510	50
PICO-S 30 MF	3 x 400 V 63 A	12	450 x 280 x 510	60
PICO-L 50 MF	3 x 400 V 100 A	27	550 x 910 x 800	150
PICO-L 75 MF	3 x 400 V 160 A	32	550 x 910 x 800	150
PICO-L 100 MF	3 x 400 V 200 A	37	550 x 910 x 800	170
PICO-L 150 MF	3 x 400 V 315 A	50	550 x 910 x 800	200



PICO-L 75 MF with running gear and hose package suspension

Occupational safety and high availability are important to us. That is why the generators are designed with electrical isolation of all external signal connections.

Cooling water and heat sink temperatures as well as generator and inductor cooling water temperatures are continuously monitored

PICO – Specifications

Intuitive handling through sealed keypad and display

8 different timers with setpoint ramps

Control modes: power, temperature (PID)

Operation modes: Continuous, Tap, Timer

Sensor signals for temperature detection 0-5 V, 0-10 V, 0-20 mA and 4-20 mA

Highspeed eldec regulation and control technology (response time < 10 µs)

Available memory management for up to 50 recipes

Short-circuit and open-circuit proven IGBT transistor technology

Automatic adaptation to resonance frequency

Housing with IP40 protection (PICO-L: IP54)

External control via hardware contacts

Energy transmission via flexible hose package 5 m (MF) and 3 m (HF)

Circuit topology with electrical isolation

Temperature and volume flow monitored fluid circuits with alarm function

Precise energy output due to power setting in 1% steps and 10 ms timer steps

Inverter efficiencies > 95% (depending on operating condition)

Automatic adaptation and power regulation through pulse width modulation (MF) and pulse packet control (HF), even when exceeding the Curie temperature

Interfaces & connections: Pyrometer, foot switch, foot pedal, emergency stop 1-channel, re-cooling system, 24V, signal lamp 4 coloured.

Power limitation possible (adjustable in 1 % steps)



Cable box with glow cable
for heat shrink applications



Heat Controller can be used
(with reduced range of functions)

PICO – Options

Control possible via foot pedal and external interface

eldec soldering gun & heat controller can be used

2-channel emergency stop for PICO-L

Option package for PICO-L:
Craneable housing with chassis

Protection class IP54 and trolley, available for PICO-L (standard IP40)



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AR-based Service

With our AR glasses, you are directly in contact with our service specialists at the machine. Quick fault diagnosis and repair saves time, costs, and gets your machine up and running again as quickly as possible.



For more information, please contact our service colleagues in Dornstetten, see contacts above.