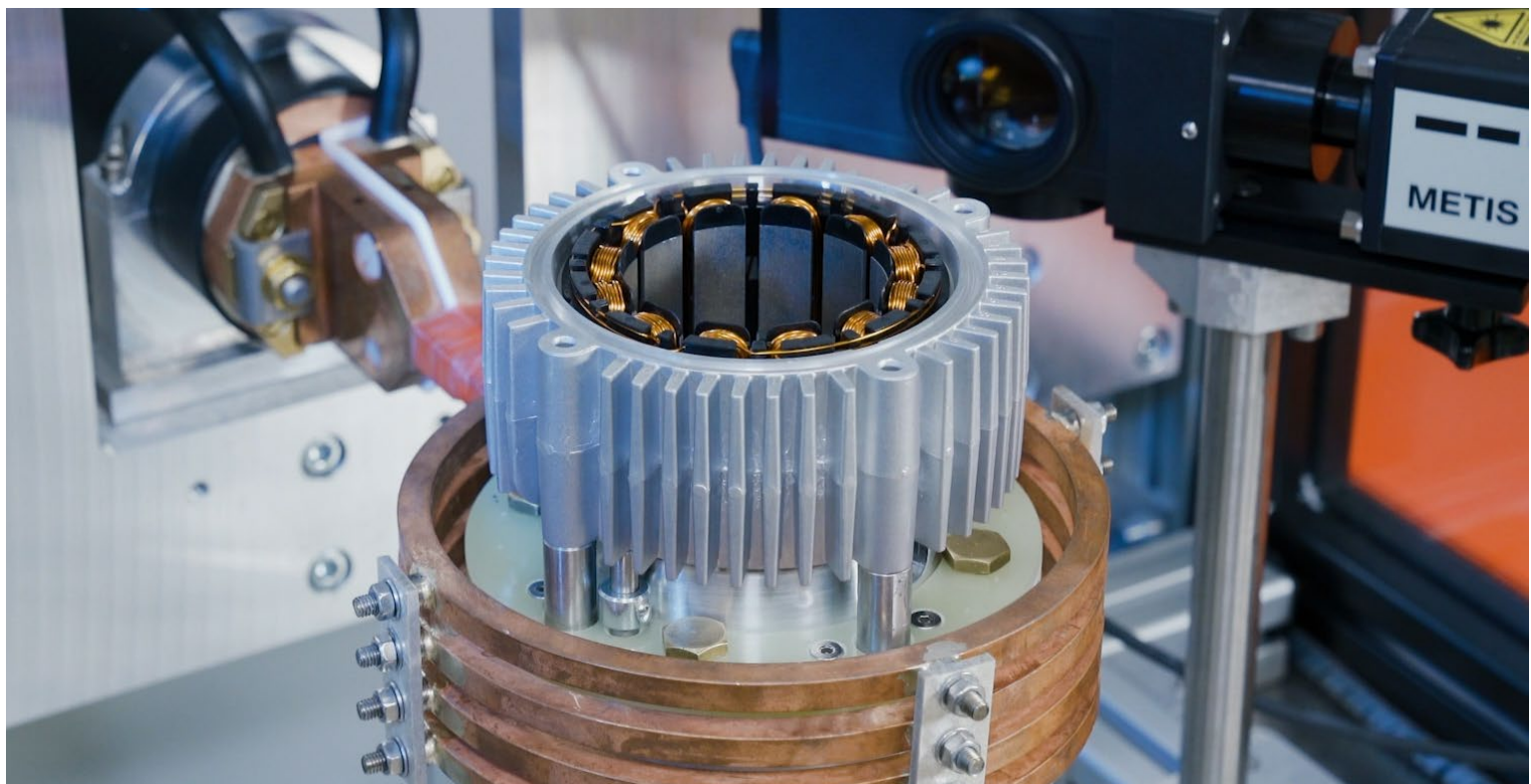




SYSTEM-LINE HF and MF GENERATORS

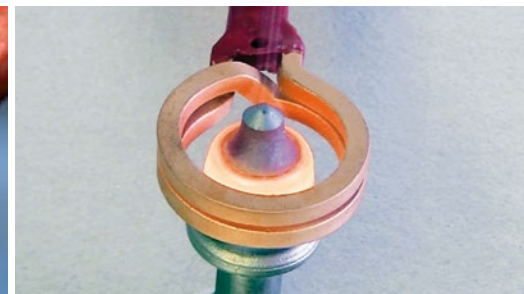
for integration into machines and fully automated systems





SYSTEM-LINE

Standardised energy sources for integration into complete systems based on our proven ECO-LINE series, with extensive I4.0 connectivity thanks to SIEMENS PLC.



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.

SYSTEM LINE induction generators are designed to be integrated into complete systems. Therefore, these energy sources do not have a user interface display. Their control and visualization systems are integrated into a cell controller for the complete system (for example, an assembly system).

A SIEMENS PLC with Profinet, Profibus and, upon request, other fieldbus systems is available to connect them. A password-protected web server interface means that the initial configuration can be completed easily by using the Ethernet interface. The operating parameters, such as error messages, water flow rates, current and voltage display, as well as power and frequency, can be displayed using the web server.

State-of-the-art power electronics and control technology, Industry 4.0 connectivity, eQC modules for quality

assurance and the stringent testing of all components make these generators top-class induction power sources with maximum availability.

The advantages of these powerful and robust energy sources are found in many details - from the high level of device protection through electrical isolation and short-circuit-proof transistor technology to the precise energy metering and high efficiency.

SYSTEM-LINE energy sources are available with single or multiple outputs. Multiple outputs can be supplied as „2A“ (two outputs, heating one after the other), as „x 2“ (two outputs, heating simultaneously, independently of each other) or as „: 2“ (two outputs, heating simultaneously, symmetrically). They have a continuous output of 5 to 150 kW (MF) or 5 to 75 kW (HF), with optional time- and frequency-dependent power boosts of up to 50% (MF). SYSTEM-LINE energy sources are available in a frequency range from 8 kHz to 400 kHz.

SYSTEM-LINE – High Frequency

HF 5 – 75 kW

Type Rated power	Rated Capacity 100% ED kW	Mains Connections at 400V, 50Hz A	Required cooling water without inductor l/min	Dimensions H x W x D mm	Weight Generator kg
Basic Version					
SYSTEM-LINE - XS HF 5	5 kW (HF)	10	8	340 x 560 x 800	50
SYSTEM-LINE - XS HF 10	10 kW (HF)	20	8	340 x 560 x 800	50
SYSTEM-LINE - XS HF 15	15 kW (HaF)	32	8	340 x 560 x 800	50
SYSTEM-LINE - S HF 25	25 kW (HF)	50	15	590 x 560 x 800	80
SYSTEM-LINE - S HF 35	35 kW (HF)	63	15	590 x 560 x 800	80
SYSTEM-LINE - XL HF 50	50 kW (HF)	100	27	1170 x 560 x 800	120
SYSTEM-LINE - XL HF 75	75 kW (HF)	160	40	1170 x 560 x 800	120
„2A“ – Two outputs, heat in sequence					
SYSTEM-LINE - S HF 2A	5 kW (HF)	10	50	590 x 560 x 800	60
SYSTEM-LINE - S HF 2A	10 kW (HF)	20	50	590 x 560 x 800	60
SYSTEM-LINE - S HF 2A	15 kW (HF)	32	50	590 x 560 x 800	60
SYSTEM-LINE - M HF 2A	25 kW (HF)	50	50	770 x 560 x 800	80
SYSTEM-LINE - M HF 2A	35 kW (HF)	63	50	770 x 560 x 800	100
„x2“ – Two outputs, heat simultaneously and independently of each other					
SYSTEM-LINE - M HF x2	2 x 5 kW (HF)	20	50	770 x 560 x 800	130
SYSTEM-LINE - M HF x2	2 x 10 kW (HF)	32	50	770 x 560 x 800	130
SYSTEM-LINE - M HF x2	2 x 15 kW (HF)	63	50	770 x 560 x 800	130



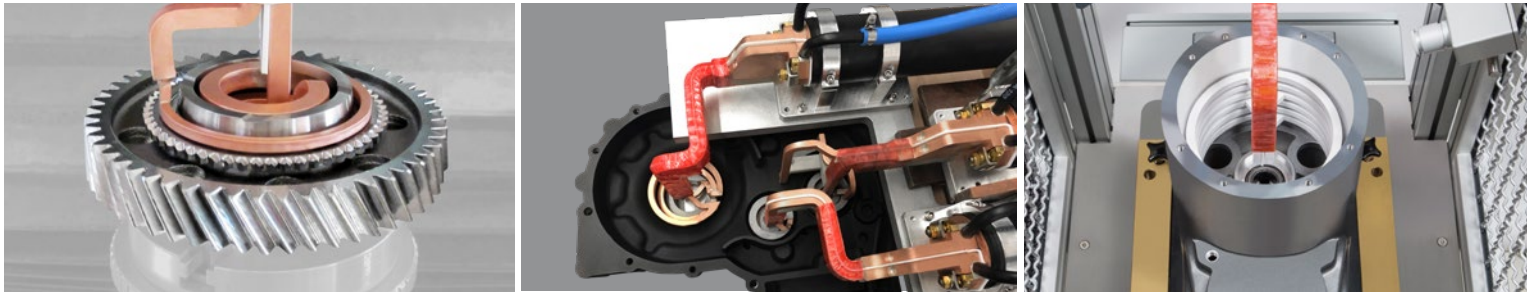
SYSTEM-LINE – Middle Frequency

MF 5 – 150 kW

Type Rated power	Rated Capacity 100% ED kW	Mains Connections at 400V, 50Hz A	Required cooling water without inductor l/min	Dimensions H x W x D mm	Weight Generator kg
Basic Version					
SYSTEM-LINE - XS MF 5	5 kW (MF)	10	12	340 x 560 x 800	50
SYSTEM-LINE - XS MF 10	10 kW (MF)	20	12	340 x 560 x 800	50
SYSTEM-LINE - XS MF 15	15 kW (MF)	32	12	340 x 560 x 800	50
SYSTEM-LINE - XS MF 20	20 kW (MF)	40	12	340 x 560 x 800	50
SYSTEM-LINE - XS MF 30	30 kW (MF)	63	12	340 x 560 x 800	50
SYSTEM-LINE - S MF 20	20 kW (MF)	40	12	590 x 560 x 800	50
SYSTEM-LINE - S MF 30	30 kW (MF)	63	12	590 x 560 x 800	50
SYSTEM-LINE - M MF 50	50 kW (MF)	100	29	770 x 560 x 800	120
SYSTEM-LINE - M MF 70	80 kW (MF)	160	27	770 x 560 x 800	120
SYSTEM-LINE - M MF 80	75 kW (MF)	160	29	770 x 560 x 800	120
SYSTEM-LINE - XL MF 100	100 kW (MF)	200	37	1170 x 560 x 800	170
SYSTEM-LINE - XL MF 150	150 kW (MF)	315	50	1170 x 560 x 800	20

„:2“- Two outputs, simultaneous symmetrical heating

SYSTEM-LINE - S MF 15 :2	15 MF (7,5 kW per coaxtrafo)	32	50	590 x 560 x 800	60
SYSTEM-LINE - S MF 20 :2	20 MF (10 kW per coaxtrafo)	35	20	590 x 560 x 800	60
SYSTEM-LINE - S MF 30 :2	30 MF (15 kW per coaxtrafo)	63	20	590 x 560 x 800	60



MF 5 – 150 kW

Type Rated power	Rated Capacity 100% ED kW	Mains Connections at 400V, 50Hz A	Required cooling water without inductor l/min	Dimensions H x W x D mm	Weight Generator kg
„2A“ – Two outputs, heat in sequence					
SYSTEM-LINE - S MF 5 2A	5 kW (MF)	10	50	590 x 560 x 800	60
SYSTEM-LINE - S MF 10 2A	10 kW (MF)	20	50	590 x 560 x 800	60
SYSTEM-LINE - S MF 15 2A	15 kW (MF)	32	50	590 x 560 x 800	60
SYSTEM-LINE - S MF 20 2A	20 kW (MF)	40	50	590 x 560 x 800	60
SYSTEM-LINE - S MF 30 2A	30 kW (MF)	63	50	590 x 560 x 800	100
SYSTEM-LINE - M MF 50 2A	50 kW (MF)	100	30	770 x 560 x 800	130
SYSTEM-LINE - M MF 75 2A	75 kW (MF)	160	30	770 x 560 x 800	130
SYSTEM-LINE - XL MF 100 2A	100 kW (MF)	200	50	1170 x 560 x 800	200
SYSTEM-LINE - XL MF 150 2A	150 kW (MF)	315	55	1170 x 560 x 800	200
„x2“ – Two outputs, heat simultaneously and independently of each other					
SYSTEM-LINE - M MF 5 x2	2 x 5 kW (MF)	20	50	770 x 560 x 800	130
SYSTEM-LINE - M MF 10 x2	2 x 10 kW (MF)	32	50	770 x 560 x 800	130
SYSTEM-LINE - M MF 15 x2	2 x 15 kW (MF)	63	50	770 x 560 x 800	130
SYSTEM-LINE - M MF 20 x2	2 x 20 kW (MF)	80	50	770 x 560 x 800	130
SYSTEM-LINE - M MF 30 x2	2 x 30 kW (MF)	125	50	770 x 560 x 800	130
SYSTEM-LINE - XL MF 50 x2	2 x 50 kW (MF)	200	50	1170 x 560 x 800	150
SYSTEM-LINE - XL MF 75 x2	2 x 75 kW (MF)	315	50	1170 x 560 x 800	250



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

SYSTEM-LINE – Specifications:

Inverter efficiencies > 95% (depending on operating condition)

Power, frequency, current and voltage display

Control modes: power, temperature (PID)

Operation modes: Continuous, Tap, Timer

SIEMENS PLC, safety controller from Pilz

8 different timers, each min. 0.1 sec. to max. 9,999 sec. running time

Recipe management memory: up to 500 recipes

Housing in protection class IP20

Sensor signals for temperature detection 4-20 mA

External control and data exchange via Profinet interface

Flow and temperature monitoring of various water circuits

Short-circuit and open-circuit proof IGBT transistor technology

Automatic adaptation to resonance frequency

Circuit topology with electrical isolation

Precise energy output due to power setting in 1% steps

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

Temperature and volume flow monitored fluid circuits with alarm function

Automatic adaptation and power regulation by 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.



Cable box with glow cable
for heat shrink applications

SYSTEM-LINE – Options:

Control type: Current

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

Special paint finish possible

Quick coupling for cooling water connections

Pyrometer (single and multiple)

Mains voltage 200 V, 480 V. Others on request

Performance specification <1%-increments on request

Energy transmission via flexible hose package up to 15 m (MF) and 5 m (HF)

Extension of the adjustment range through serial / parallel switching (manual or automatic)

Profibus, EtherCat, other fieldbuses on request

Emergency stop 2-channel to external

Coolant systems active/passive

Extension of the adjustment range through switchable second frequency band

UL standard optionally available

eQC Moduls: eSM earth fault, ePM flux, ePM energy & eSM RFID

Remote maintenance

Temperature curves (100 pcs.)

Separate inductor cooling water supply



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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.