

EFD Induction • Västerås • Sweden

EFD Induction – a passion for heat

EFD Induction is a world-leading producer of industrial induction heaters—equipment that is customized for hardening, brazing, forging, tube welding or any other heat treatment of metals

The complete induction heating system is water cooled in several sensitive circuits and for many decades EFD have trusted Eletta flow meters for this critical work!



Contour hardening of gears with EFD Induction's patented multi frequency concept. The surface of the gear is heated to 1000° C within a few seconds to achieve the correct hardening depth.

Eletta flow

when you want to know

Use of Eletta flow meters for induction heating equipment

Induction is ideal whenever you have to heat metal objects fast. With induction, you get rapid and localized heat, minimized energy consumption, and a safe, comfortable working environment.

Induction uses the same principle as the modern induction stove. But instead of the approximately 1 kW used in domestic kitchens, industrial applications typically use anything from 20 to 2000-plus kW.

EFD Induction (www.efd-induction.com) is a world-leading producer of industrial induction heaters—equipment that is customized for hardening, brazing, forging, tube welding or any other heat treatment of metals.

The induction heater consists of a frequency converter that feeds power at a selected frequency to a

resonance circuit that includes the coil, which is the actual heating tool. The coil, which carries several thousand Amps, is designed to fit specific objects and to deliver specific heat zones. The complete induction heating system is water cooled in several sensitive circuits, so it is crucial that the cooling of each circuit is supervised, and for many decades EFD have trusted Eletta flow meters for this critical work!

For induction hardening, there is an additional cooling circuit. It is the quench water system that sprays a polymer emulsion on the heated object to achieve the desired metallurgical hardening result, and here accurate measurement and supervision of quench media flow is very important for the quality of the process.

EFD – a selection of customers

Audi	Delphi Automotive Systems
BMW	GKN DRIVETECH
Citroën	MAGNA
DaimlerChrysler	Magnetti Marelli
FIAT Group	Valeo
Ford	Visteon
General Motors	ABB
Hyundai	Alcatel
Jaguar - Land Rover	Alstom
KIA	GE
Peugeot	Hitachi
Renault	Siemens
Volkswagen Group	Toshiba
BOSCH	Westinghouse



Eletta flow meters in induction heating systems from EFD Induction.



ELETTA
— FLOW MONITORS —

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