

Forging

Induction heating system for billets (Walking beam)
Typ EBH

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Induction heating system for billets (Walking beam) Type EBH

The induction heating system EBH is used for the heating of steel billets (ferromagnetic and austenitic qualities) and non-ferrous metals.

The walking beam conveyor transports the billets at intervals on water-cooled rails in small steps, i.e. almost continuously through the induction coils, in which the billets are heated to forging temperature. Conveying speed and heating capacity are infinitely-variably set to the respective production conditions.

Advantages at a glance

- Control of each zone
- Fully adjustable temperature curves
- Shorter heating lengths due to ABP's proprietary modular design
- IGBT technology
- Low energy consumption
- Creep mode: 10–20 % of nominal throughput
- Performance factor of $\cos-\varphi > 0,95$
- Turnkey solution incl. feeding and extraction



Coil design

- Robust coil construction
- Full concrete body
- High efficiency coil copper profiles
- Low energy consumption

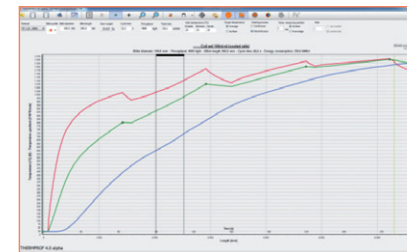


THERMPROF® Simulation-Software

The THERMPROF® thermal profile calculator is used to optimize heating profiles.

Various possibilities for optimization:

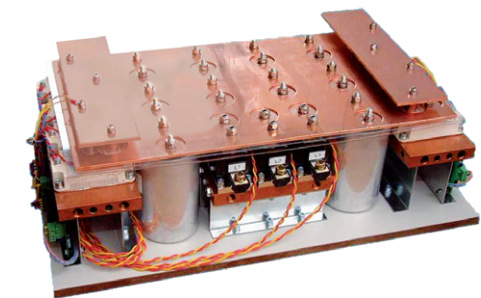
- Reduction in scale
- Optimizing energy consumption
- Optimizing axial temperature uniformity



Temperature curves THERMPROF®

IGBT-Technology

- Modular design – extendable
- High availability
- Plug & Play module
- High efficiency
- Power-factor $\cos-\varphi > 0,95$



IGBT-Technology

Prodapt FX² - heating processor

- Creep mode: 10–20 % of nominal throughput
- Control of each zone
- Quick cold start capabilities
- Fully adjustable temperature curves



PRODAPT® heating processor

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