

Forging

Compact Converter EVA/IGBT-Technology



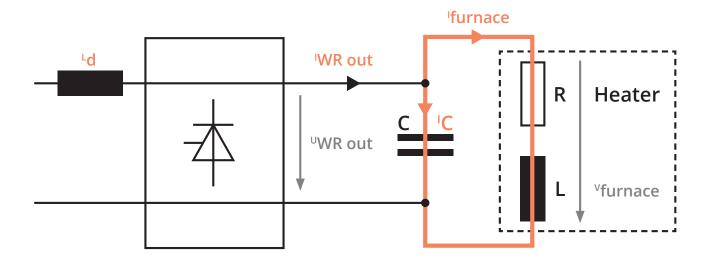
Compact Converter EVA



ABP Converter Design

Parallel Inverter

- High current only in the swing circuit
- Coupling choke smoothes peaks



Insulated Gate Bipolar Transistors

IGBTs = Bipolar Transistors with isolated Gate

Advantages:

- High reliability
- Low complexity of circuits
- Flexible applications
- Low switching and conduction losses
- Low control power (FET-control principle)
- Isolated water-cooling





MATDAT-FX

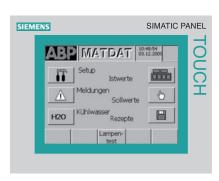
System controller MATDAT-FX

Target values

- Feeding rate, voltage and temperature limit
- Temperature, frequency und power are physically logical consequences of these parameters

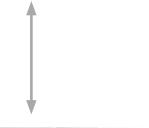
Recipes

- Proven settings can be stored as recipes
- Storage of process data is possible via recipe management system
- Recipes can be named, for example production number
- Recipe management system is equipped from the factory with user management



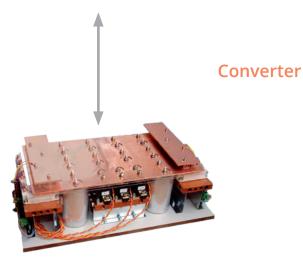
Visualization

- Actual values
- Target values
- Recipes
- Error messages
- Cooling-water visualization (optional)









IGBT-Technology

Our experience

ABP can rely on many years of experience using IGBT technology (Insulated Gate Bipolar Transistor).

Reasons why IGBT technology is state of the art:

- The power factor (ratio of active and reactive power) is always greater than 0.95.
- Purified water is not necessary and avoids the need for expensive water treatment systems. The higher allowable cooling water temperature reduces the overall cooling water system costs.

IGBT technology

- Expandable modular design
- No deionized water for the cooling circuit required.
- Improved availability through short service times during a breakdown
- Easy assembly and maintenance
- Increased energy efficiency
- Performance factor of cos-φ > 0,95



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