

## 6.05. HIGH-FREQUENCY INSTALLATIONS OF INDUCTION HEATING

High-frequency installations of induction heating are offered on the basis of transistor converters with power of 2 to 100 kW and an output current frequency of 8 to 440 kHz. Transistor converters are built on a modern element base with the use of original technical solutions.

### *The main areas of use of induction installations:*

- melting of metals;
- heating of parts;
- tool soldering;
- heat treatment of welds;
- surface and through hardening;
- heat treatment of small parts and parts of complex shape.

### *Advantages of the converters:*

- high efficiency of the converter (92..96%);
- microprocessor control and protection system;
- automatic frequency adjustment;
- modular construction principle;
- high reliability;
- operation from the thermostat;
- operation from the timer;
- data transfer (RS-485);
- small weight and dimensions;
- ease of use.

