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THERMAL ENERGY MACHINING

Thermal energy machining, also known as explosive deburring, can be used to deburr bulk material or individual components with hard-to-reach edges quickly, economically and reliably. This technology is predominantly applied to components whose **deburring quality** significantly influences the function of the end products.

THERMAL ENERGY MACHINING

PROCESS FLOW

This method uses an oxygen-fuel gas mixture in the deburring chamber to burn off all burrs on the workpiece. The burr roots are sealed as well. The burrs are burned off without removing material on the component surface and the procedure takes only a few milliseconds. Decisive for the deburring quality are gas volume, gas pressure and mixing ratio of the oxygen-fuel gas mixture. These parameters can be determined as a result of sample or initial machinings and allow for a high level of repeatability of the deburring. The combustion residues on the component surfaces are then removed using special cleaning procedures.

CHARACTERISTICS

- removal of all loose burrs or tinsel burrs
- stabilisation and sealing of the burr edges

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