



Old studs, e.g. boiler studs, corrugated anchors or tile holders are cut off manually, and the old anchoring elements are machined down to a level surface

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Stud welding in furnaces

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> **BUCHEN KraftwerkService**

Specialist for industrial service in conventional power plants and incineration plants

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Furnaces

A functioning refractory system is an important factor for an efficient combustion in many furnaces.

Metal anchoring elements (studs) form the links between the boiler tube and the refractory lining. These studs are mainly installed using the stud welding method.

BUCHEN KraftwerkService provides the full range of repair and new studding work on the inside and outside of boiler plants, as well as all preparatory work required, e.g. boiler cleaning with dry blasting methods, de-studding and surface polishing. Through the utilization of state-of-the-art and efficient manually operated welding machines, we are able to carry out any job with a maximum degree of accuracy. We only employ welders with a valid welder's certificate.



This precision-work is exclusively performed by qualified stud welders with a valid welder's certificate, and with state-of-the-art stud welding equipment



The range of services in the welding area includes various geometries and anchor types, as well as a wide variety of material combinations

> Main advantages of method:

- Quick and safe joining
- Full-surface welding with the base material
- Good heat transfer (cooling)
- Various geometries and anchor types can be welded (studs, corrugated anchors, tile holders)
- Wide range of material combinations:
Ferritic and austenitic anchors as well as nickel-based anchors can be combined with a large variety of materials

> Our range of services:

De-studding:

- Removal of old studs, e.g. boiler studs, corrugated anchors, tile holders
- Level-grinding of old anchor elements

Studding:

- Delivery and proper welding of various anchors types according to the customer's specific requirements
- Consulting services regarding material qualities and anchor types