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# induction solutions

for shipbuilding industry



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## Advantages

Energy efficiency  
Localized heat in the area to be heated  
Short heating times  
Repetitive and controllable process  
Clean, fumeless, no contact

## Business Benefits

Cost saving  
Quality  
Production rate increase  
Automated, lean process  
Safe heating

## Typical industrial processes

Forging and Forming  
Hardening and Tempering  
Pipe Welding  
Annealing and Normalising  
Shrink fitting  
Brazing  
Polymerisation Bonding  
Pre- and Post-Heating

## Application examples in shipbuilding



Deck and Bulkhead straightening



Forging



Parts heat treatment



Rotor shrink fitting



Short circuit ring brazing

### Shipbuilding

- Deck and bulkhead straightening
- Pipe annealing
- Brazing
- Pre- and Post-Heating

### Repair and Maintenance

- Localized metal heating: Spot heating, brazing, stress relief, bolt expansion
- Paint removal
- Other applications

### Propulsion systems

- Engine components heat treating
- Turbine blades brazing
- Gears hardening
- Large bearings hardening
- Shafts and gearbox components heat treating
- Other applications

## References

Siemens · SKF · Rothe Erde · Metalships & Docks · Vicinay · DCNS · Volvo Penta · Scania · Arcelor Mittal