



induction solutions

for the tube & pipe industry



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Tubes and pipes are manufactured for a wide range of final products, either industrial or consumer goods, with different technical characteristics. Manufacturing processes must meet the requirements of each industry.

Induction heating technology is increasingly being used because of its high energy efficiency, in-line production integration capacity, precise temperature control and high dimensional accuracy.

GH solutions offer reliability, technology and services capable of accomplishing manufacturers' diverse challenges.

Benefited industries

- OCTG industry
- Drilling industry
- Utility pipes
- Metal structures
- Automotive supply industry
- Construction industries
- Furniture industry
- Fencing industry
- Sport equipment

Typical tube & pipe processes

Joining processes	Heat treatments	Pre and post-heating
Tube and profile continuous welding (Inductive and conductive)	Hardening and tempering	PWHT Preheating for welding
Tube and pipe brazing	Annealing <ul style="list-style-type: none"> • Entire tube annealing • Seam annealing • Bright annealing 	Preheating for drying Preheating for coating Preheating for forging
	Stress relief	

Main references

ArcelorMittal // Tenaris // Vallourec // Condesa // Tubos Reunidos // Gestamp // Mecalux

Developed solutions for specific customer needs

GH turnkey solution



Specific project needs can be successfully implemented thanks to GH experience, know-how and the resources available for every customer:

- **In-line and off-line solutions design and manufacturing.** Mechanical, electrical and control engineering allow designs to be integrated in automated production lines or standalone systems.
- **Application development service and laboratory test** for checking induction technical application viability and developing specific processes.
- **Induction power systems** covering the whole range of frequency and power requirements in tube and pipe processes: frequencies up to 400 KHz and power up to 2000 KW (higher power under request)
- **Customer services** for installing, commissioning, training and maintaining the system during the whole production life.



Customized installation for hardening and tempering of drilling pipes



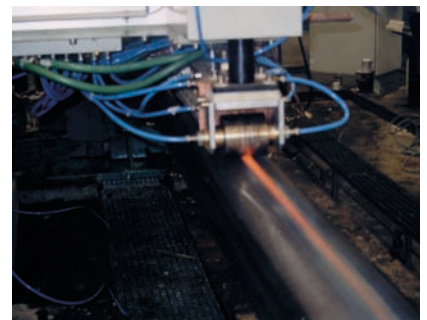
Examples of induction applications



Hardening and tempering



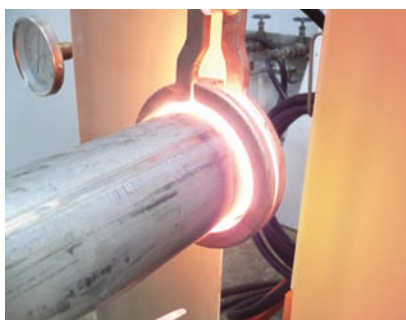
Tube and profile welding



Seam annealing



Stress relief of oil and gas pipe



Tube preheating

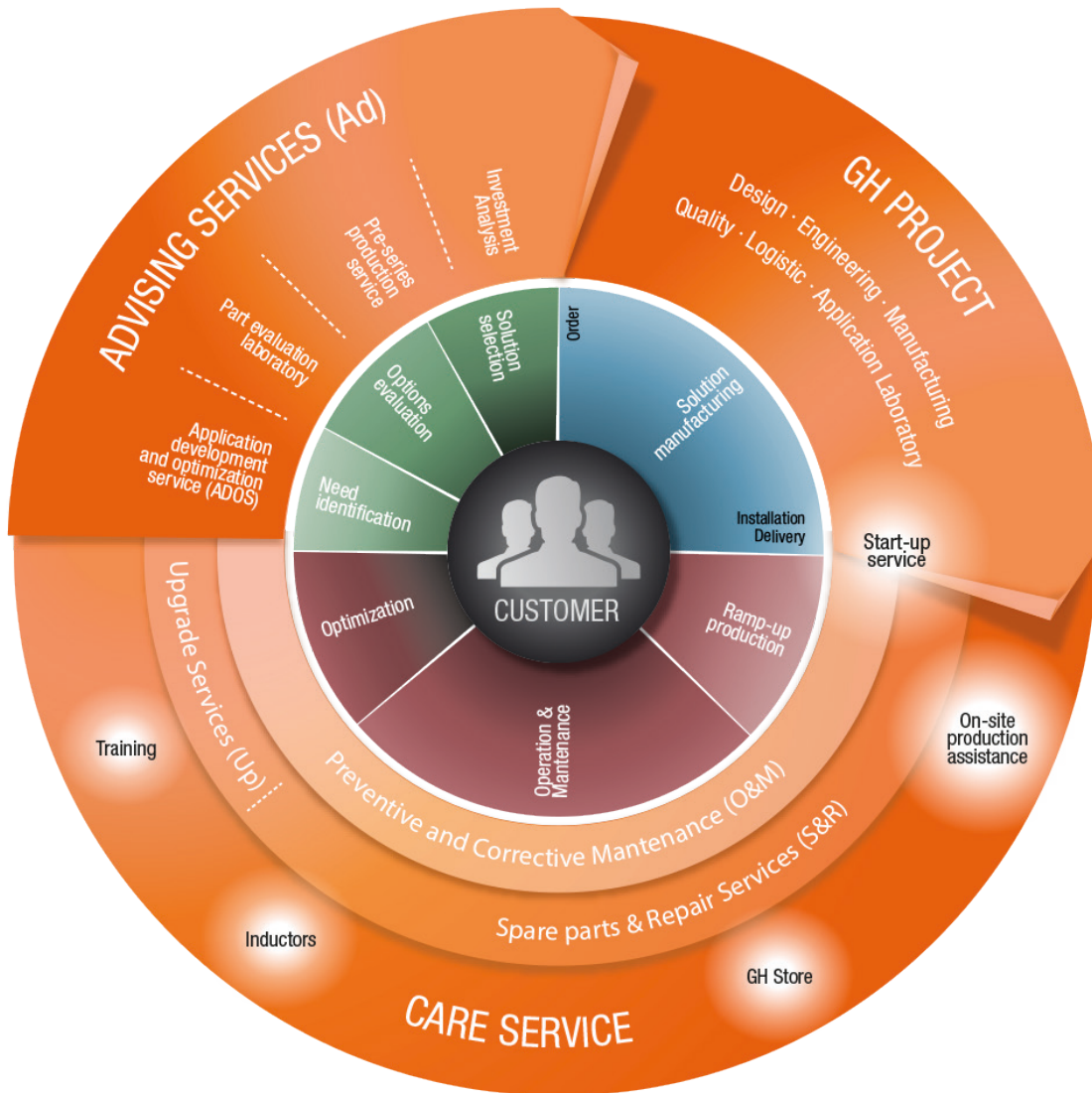


Bright annealing

About GH Group

GH Group is a worldwide induction heating technology cluster of companies serving different industries in the automotive, wind energy, machine tools, brazing, tube and cable fields, among others.

With more than 50 years' experience and 4000 customers around the world, GH Group has thousands of clients like Siemens, Robert Bosch, VW Group, PSA, Volvo, Alstom, Vossloh, Nestlé, Vicinay, Metalships & Docks, GKN, TRW, Delphi, CIE Automotive, Fagor, Sandvik, etc.



GH offer during customer asset life



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GHCOM014002.0