



PowerTest Asia

BRAZING & PRECISION JOINING

Brazing is a metal-joining process in which a filler metal is melted and drawn into a joint by capillary action. Unlike welding, the base materials are not melted, allowing for stronger, cleaner and more precise joints.

WHY BRAZING?



Excellent electrical conductivity



High mechanical strength



Corrosion resistance

TYPICAL USES



Aerospace



Automotive



Power generation



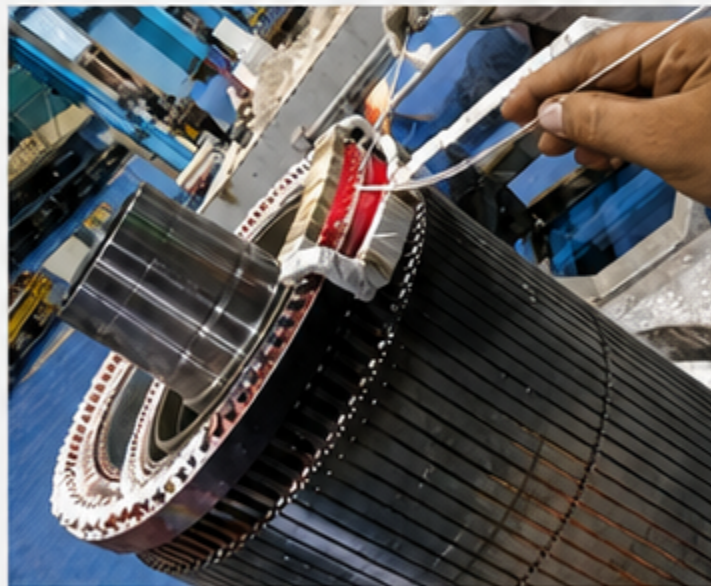
Appliances



Manufacturing



Ideal for repeatable, high-quality joining in copper conductors, electrical components and precision assemblies. Small joints. Big performance.



ENGINEERED HEATING. PRECISE RESULTS.

www.powertestasia.com



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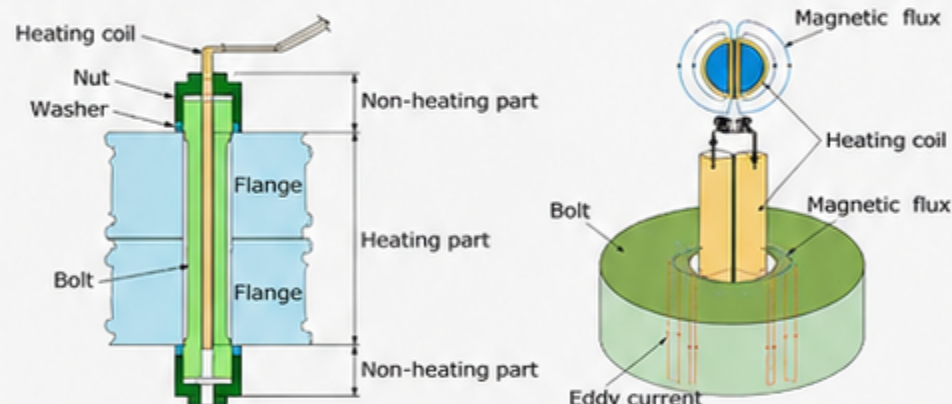
INDUCTION BOLT HEATING

Gas and steam turbines typically require maintenance every two years, where outage time must be carefully managed. Induction heating uses alternating magnetic flux to generate heat directly within the conductive bolt, making bolt stretching faster and more accurate than conventional heating methods.



HOW IT WORKS

When exposed to an alternating magnetic flux, eddy currents are created inside the bolt. The current flow dissipates as heat, extending the bolt for safe tightening or loosening while minimizing force and thread damage.



SHORTER HEATING TIME

Reduces working hours for bolt tightening and relaxation.



REDUCED FLANGE EXPANSION

Rapid, targeted heating improves precision clamping.



EASY OPERATION

Only the bolt is extended, so loosening and tightening require less force.



FITS EXISTING BOLTS

Can be applied without changing the installed bolts.



Safer than forceful
nut removal with sledgehammers
and slugging wrenches.



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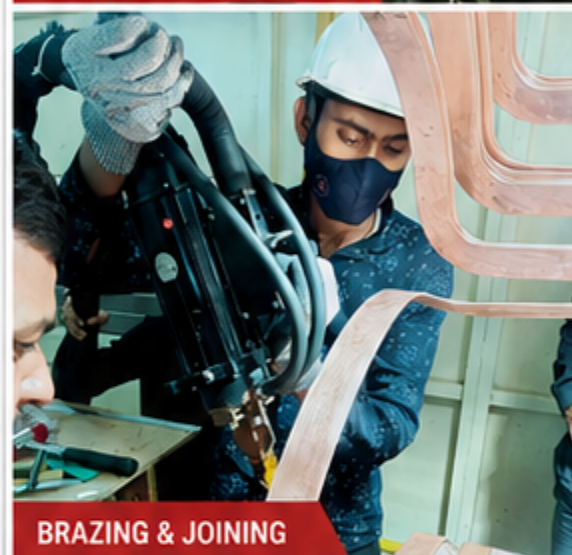
INDUCTION HEATING & BRAZING SOLUTIONS

Safe, fast and precise thermal solutions for maintenance, assembly and metal joining.

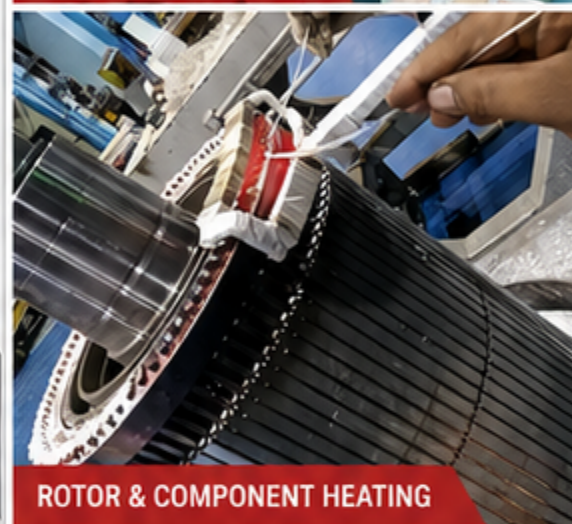
For turbines, heavy industry, power generation and precision manufacturing.



TURBINE BOLT HEATING



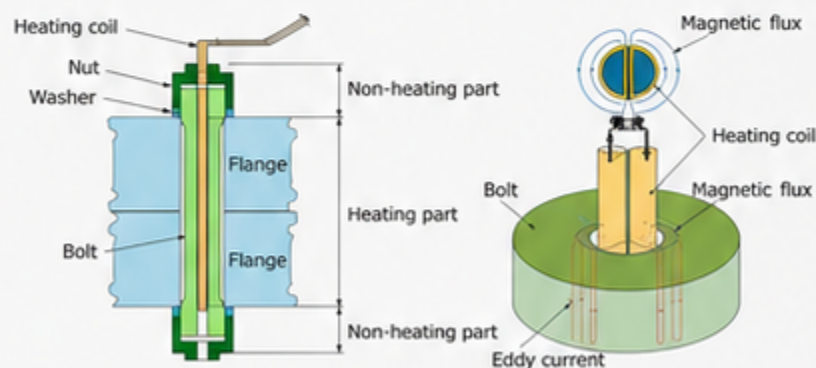
BRAZING & JOINING



ROTOR & COMPONENT HEATING

INDUCTION BOLT HEATING

Targeted heating of bolted joints for safe and efficient removal.



NON-CONTACT HEATING

Heat exactly where you need it.



REDUCED DOWNTIME

Faster processes, maximum uptime.



PRECISION CONTROL

Accurate temperature and power control.



SAFER THAN OPEN FLAME

Lower risk, cleaner and more secure.

