

【コイル・周波数について】
Features Based on the Frequency of Induction Heating and Coil Design

誘導加熱は、効率よく加熱するため加熱目的や被加熱物の形状、寸法、材質に応じて、最適な周波数とコイルの形状を検討します。
Induction heating determines the optional frequency and coil shape based on the heating purpose and the shape, dimensions, and material of the heating object, for efficient heat induction.



【装置例】
Devices for Products Line



【金属材料試験装置とは？】
金属材料試験装置は誘導加熱技術と電気・油圧サーボ制御での加工技術、変態点検出に非接触式膨脹測定方式等の負荷制御技術、温度検出など測定技術を総合したロングセラー商品です。
1) 広範囲におよぶ加熱・冷却の熱履歴を容易に、しかも正確に与えることができます。
2) 自動化された排気、雰囲気調整シスムにより目的に応じた試験環境が容易に作成できます。
3) 測定データはプログラムパターンと同期したサンプリングタイムで自動採取しディスプレイ上で解析・確認が可能です。
4) 広範囲におよぶ圧縮加工ができます。

【What is a metal material testing device?】
Metal material testing device is one of our long-selling products, which integrates multiple technologies, such as our dielectric induction heating, load and control, and measuring technologies. It includes electro-hydraulic servo control systems for treatment, non-contact thermal expansion measurement system for transformation point detection, temperature detection, and others. Various processing conditions, such as temperature and distortion, are provided to the given specimen in the desired atmosphere while testing. Then, it accurately detects generated deformation resistance during and after processing, along with transformation behavior immediately after processing.
1) The wide-ranged history of heating and cooling can be given efficiently and accurately.
2) A test environment suitable for each purpose can be easily created by automated exhaust and atmospheric adjustment system.
3) The measured data are automatically collected at the sampling time, synchronized with the program pattern, and the recorded data can be analyzed and checked on the display.
4) A wide range of compression processes is possible.

【試験／metal material testing】
①単軸圧縮加工: Teat to compress with a single shaft
②平面歪加工: Compress the test plate and check the strain
③薄板試験: Check the structure of the tin test piece heated and cooled rapidly
④引張加工: Check the strength by the tin test piece compressed, heated and cooled rapidly

