

Splined shaft induction hardening

United Induction Heating Machine Limited

We are experienced in Induction Heating, induction heating machine, Induction Heating equipment. They are widely used in induction heating service, induction heat treatment, induction brazing, induction hardening, induction welding, induction forging, induction quenching, induction soldering, induction melting and induction surface treatment applications
<http://www.uihm.com>

Spline shaft quenching equipment models are UM-60/80/100/120/160KW, according to different requirements of customers choose the right equipment, complete specifications, stable performance, perfect after-sale, excellent quality; yes you choose high-frequency induction heating power supply ideal partner for the cause! Spline shaft quenching equipment the main features:

1 meet a variety of shafts and gears hardening heat treatment requirements, mature technology, quality assurance, please rest assured that the security and stability of electricity use.

2 sensor using profiling sensors, side scan while water quenching, hardness, hardening depth can meet the requirements.

3 can meet the 150mm diameter shaft surface hardening requirements.

4 can satisfy tip diameter about 250 hardened gear requirements.

Spline shaft quenching equipment works:

Using the German original Siemens IGBT power module; using Fuji rectifier module; using epoxy resin casting power output transformer. 24 hours of continuous work. Principle of electromagnetic effects, so that in the alternating magnetic field inside the metal material very rapidly induced eddy currents, so that the molten metal material to heat up an electrical induction heating equipment, but also penetrate non-metallic materials, metallic materials may be partially or All rapid heating. Old-fashioned high-frequency induction furnace, high voltage gain is to rely on AC 380V step-up transformer directly boost its poor security, bulky, and power consumption, high maintenance costs, traditional coal oven heating, box furnace heating, flame heating equipment, welding and heat treatment, not only pollute the environment, waste of energy, but slow and inefficient.

Spline shaft quenching equipment and general hardening difference:

1 heat in the workpiece surface, fast heating, high thermal efficiency;

(2) is not due to overall heating the workpiece, deformation;

3. Workpiece heating time is short, the surface oxidation and decarbonization less;

4. Workpiece surface hardness, a small notch sensitivity, toughness, fatigue strength and wear resistance are greatly improved. Conducive to play materials to potential saving material consumption, improve parts life;

5. Equipment is compact, easy to use, good working conditions;

6 to facilitate mechanization and automation;

7 not only used in surface hardening can also be used in penetrating heat and chemical heat treatment.

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