

Surface modification technology



NDK will continue to fan the flames of creativity and to accumulate and improve their expertise in plasma and heat treatment technologies.

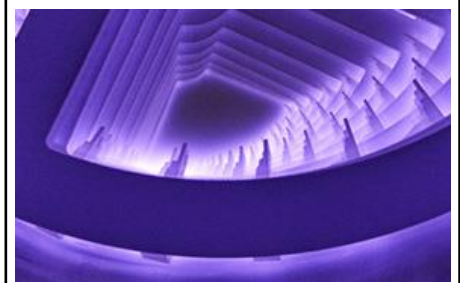
Services



The ion nitriding method was invented by B. Berghaus, Germany, in 1932, and started to be put to practical use in German and Swiss companies around 1967. NDK developed the first ion nitriding instrument in Japan in 1973, and started manufacturing and contract processing services.



A radical nitriding system is configured of a furnace (vacuum-resistant, heat-resistant container), an electric heater, a vacuum evacuation device, a gas supply device, plasma and heater power supplies, an operating and control device and an exhaust gas processor.



Plasma carburizing equipment makes use of the electrochemical reactions of the plasma from the DC glow discharge and thermal energy to form carbides on the surfaces of metallic materials to improve the mechanical strength.



The NDK plasma CVD systems can support your goals with a wide range of optional functions, stable gas control, and reliable plasma control technologies built on our wealth of experience.



Induction heating using RF current is now widely utilized in industries for applications. There are several types, which are selected for the application according to their different characteristics. Based on more than 50 years of experience and unrivalled expertise, NDK can meet any customer requirements in this area.

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