

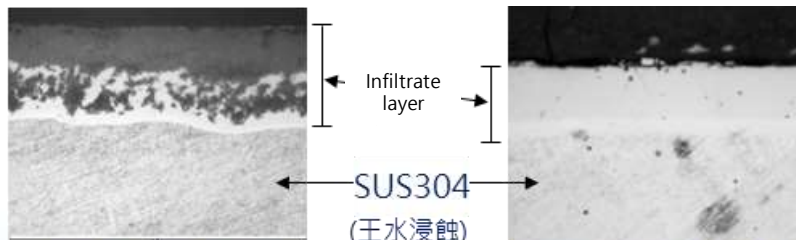
Stainless Steel Corrosion-Resistance Surface Treatment

MIRDC

Industrial new tool, upgraded version of stainless steel surface hardening treatment

Introduction

- Activate the surface of Austenitic stainless steel with gas, followed by gas nitriding, carburizing or carbonitriding.
- Heat treatment of surface modification with chemical diffusion, leaves no coating peeling problems.
- Increased hardness (from Hv 200 to Hv 1200, with a penetration depth of 10~20 μ m.) while retaining the original corrosion resistance
- Control the quenching and tempering consistency of inner and outer layers of micro parts. Improve the product yield by 99%.
- ◆ Improve wear resistance, scratch resistance and erosion resistance of stainless steel products.
- ◆ Gas manufacturing process offers good uniformity in permeability and mass production.
- ◆ Customize high-efficiency heat treatment equipment according to required specifications.
- ◆ Module replacement to reduce the cost of conventional equipment and minimize the size of equipment.
- ◆ Incorporate intelligent control systems to build manufacturing parameters database for surface carburization and hardening, tempering heat treatment and precipitation hardening.



General nitride layer
(corrosion easily)

Corrosion-resistant but non-destructive surface hardening

Honors/ Patents

- Surface treatment of stainless steel (I629378), surface modification of metal workpiece (I605898)

Industrial Applications and Case Studies

Joint ferrule/ball valves used in chemical pipelines



High-value portable/daily necessity/slide products

