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Company Brief

Shanghai BoTnG Welding Consumables Co., Ltd is a manufacturer of drill pipe hardbanding wires and the application equipments.

BoTn is famous for a complete series of high performance anti-wear & friction-reduction hardbanding wires, BoTn1000, BoTn3000 and BoTn5000. All of the three wires have gone through the tests by Stress Engineering Service Mohr Engineering Division project laboratory and Bodycote Materials Testing Inc. Laboratory in the United States and Xi’an Maurer Petroleum Engineering Laboratory. The tests results prove that the materials have perfect performance of anti-wear and friction-reduction under downhole conditions.

BoTn materials have been widely used in both China and overseas markets and have gained full recognition by the customers. With the application of the BoTn hardbanding, tool joints life has been greatly prolonged, thus the average lifespan of drill pipes are prolonged accordingly.

BoTn hardbanding wires are the only such products in China that have passed NS–1 products auditing and approval.

With the increasing demand on deeper and longer extend drilling, the company is always ready to develop more advanced hardbanding materials to adapt to the requirements by the customers.
**Products Introduction**

**Main Features**

**BoTn1000**
- **BoTn3000**
  - Sufficient hardness (HRC58 - 62) and good anti-wear property which can protect drill pipe to the maximum extent. The wear rate is less than 6% of that of bare tool joint, which can prolong the tool joint service life by three times.
  - Perfect friction-reduction property that can reduce the casing wear to the minimum and its wear to casing is only 11% of that of tungsten carbide and less than 14% of that of bare tool joint.
  - BoTn3000 can be applied to surfacing welding for new & used tool joint, heavy weight drill pipe, drill collar and various downhole instruments surface to withstand the downhole wear and prolong their service life.
  - Perfect friction-reduction property that can reduce the torque of the drilling string.
  - Good welding properties with little splash and good repeat welding performance.
  - BoTn3000 is a kind of environment friendly material of chrome-free.

**BoTn1000**
- Sufficient hardness (HRC58-62) and good anti-wear property which can triple drill pipe tool joint life.
- Excellent friction-reduction property that can reduce the casing wear to the minimum and its wear to casing is only 12% of that of bare tool joint.
- Excellent friction-reduction performance can effectively reduce the torque of the drill string.
- No crack on the surface visible with naked eyes.
- Good welding properties with less splash and perfect forming.
- BoTn1000 can be applied to surfacing welding for new & used tool joint, heavy weight drill pipe and various downhole instruments surface.
- Compatible with many other kind of hardbanding material.
Evaluation tests

The BoTn series wire have gone through the following evaluation tests to prove its excellent performances.

- Full-scale wear valuation test
- Material test
- Macro Examination
- Hardness Survey—ASTM E 92
- Hardbanding Adhesion Test
- Compatibility Tests with other hardbanding materials
- Tarim Oilfield and Shengli Oilfield Application Test
Hardbanding Anti-Wear Comparative in Drilling Fluid

Casing Wear Comparative in Drilling Fluid
The BoTn Special Hardbanding Welding Equipment

Main Features

- **Specialized equipment:** In order to guarantee the application quality, the machine is designed and built specifically for hardbanding welding procedure.
  
  The company is not only the machine manufacturer, but also provides the welding service. Until today, we have already sold over thirty machines for domestic and foreign customers.

- **Intelligent machine:** Easy and convenient operation is realized by inputting welding parameters into PLC control system.

- **Automatic unit:** The welding process can be completed automatically so as to reduce the impact of human factors on hardbanding welding quality.

- **Reliable operation:** Designed to adapt to poor service environment (high temperature, extreme cold, dust etc), long working hours and high reliability.

Main Technical Parameters:

- Welding workpiece diameter: Φ80~Φ250mm
- HB width range: 20~50mm
- System input voltage: 380V
- System input power: 31.8KW
- Intermediate frequency heating system input power: 35kw