and increases the coefficient of titanium diffusion. The material of composite coating after HEB melting has higher density and consists of high temperature phases of aluminum oxide alloyed by titanium and chromium. It is expected that this coating will have increased corrosion properties under operation in active high temperature media.

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NEWS

THREE IN ONE

A welding multisystem (chopper) providing three welding processes (MIG/MAG, TIG and MMA) is proposed by SELMA company.

VD-320 KS welding multisystem is designed:

• for semi-automatic gas-shielded welding (MIG/MAG-DC mode) by 1.0–1.6 mm diameter steel wire using wire feed mechanism manufactured by OJSC SELMA Company as well as for semi-automatic welding of aluminum and its alloys in argon atmosphere by 1.2 mm diameter OK 18.01, OK 18.04, AMg-5 wires in 130–180 A current range at arc voltage of 19–24 V;

• for non-consumable electrode argon arc welding at direct current (TIG-DC mode) at completing with BU-TIG control unit;

• for consumable covered electrode arc welding of products from carbon and alloyed steels (MMA-DC mode).

Main advantages:

• low consumption of energy in comparison with traditional welding sources for 300 A;

• rectifier has a built-in block for reduction of open-circuit voltage increasing safety during performance of welding operations in MMA mode;

• possibility of carrying out of three welding processes: MIG/MAG-DC, TIG-DC, MMA-DC;

• smooth adjustment of welding current;

• digital display of welding current and voltage;

• adjustment of short-circuit current in MMA mode;

• adjustment of time of «Hot start» for providing stable arc initiation in MMA mode;

• possibility of connection of a remote-control station for adjustment of welding current in MMA mode;

• availability of thermal protection from overloading;

• availability of socket (36 V) for a gas heater connection;

• state-of-the-art element base;

• small weight and overall dimensions in comparison with traditional welding sources for 300 A.