

Additional options for the semi-automated selective soldering and desoldering machine ONYX 29

Having been introduced at the Productronica 2003 the semi-automated selective soldering and desoldering machine ONYX 29 has found good response on the market and is shown at the SMT 2004 with an extended option program.

For the new semi-automatic selective soldering and desoldering machine precision, automatic processes and easy operation have been the basic for the development.

Extended option program

The option program contains the site solder removal system, the process temperature sensors, the board cooling, the tray bridge, the machine support base and apart from other preheaters the direct view camera.

Machine data for the success

At the ONYX 29 the open construction supports the motorized X, Y, Z and Vision movements, whereby 2 axes are equipped with linear motors, thus enabling optimized motions for the applications. So in the width printed circuit boards up to 500 mm can be inserted, in the depth larger dimensions are possible grace to the open machine construction. The powerful, large 4 zone preheater has an active zone of 400mmx400mm at total 6000W. The advanced MFOV Vision system allows to see components up to 75mmx75mm. Beneath other parameters the force measuring system is used for placement to protect sensitive components.

Selective automation

Defined process parts can be executed fully automatic. On the one hand this guarantees the soldering results but also helps the operators to execute other works, e.g. documentation for quality control. So the programmed software parameters automatically control the desoldering program, the placement and the soldering program. Especially for the rework of BGA's the automatic site solder removal system without mechanical contact of the printed circuit board is important.

Special software

The ONYX 29 profits by the in-house developed software. The strong and modern software has been designed to support the operator with an easy-to use surface and to make available to the machine the complex features for today's and tomorrow's applications.

Lead free soldering

The basic machine is outlined for lead free soldering already. The use of the respective materials and the 2000 W top and 6000 W bottom heating together with the nitrogen input assure reliable and reproducible thermo profiles and soldering results to meet the increasing needs of the electronic industry.

Wide application range

Not only options to the ONYX 29 complement the basic unit, also existing DRS gas nozzles can be used. So applications for all existing SMT components like 0102, CSP, BGA, Flip Chip, LGA (Land Grid Array), connectors, shieldings or special components can be done in the needed manner with the ONYX 29.

ZEVAC Corporate Media Office:

ZEVAC AG
Roswitha Eichberger
Vogelherdstr. 4
CH-4500 Solothurn
Telefon +41 32 626 20 81
Fax +41 32 626 20 90
E-mail r.eichberger@zevac.ch

Germany:

ZEVAC GmbH Selektiv-Löttechnik
Lothar Pietrzak
Münchener Strasse 16
DE-85667 Oberpframmern
Telefon +49 8093 5775-0
Fax +49 8093 5775-25
E-Mail L.Pietrzak@zevac.de