

Product information
Capacitor discharge and
short-cycle drawn arc stud welding

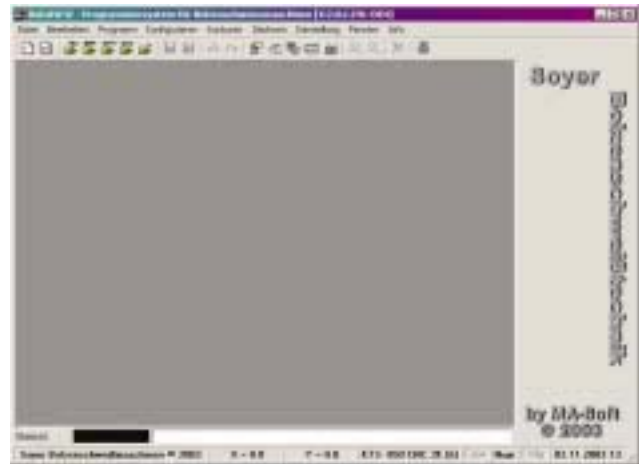
BolzitW32

Graphic-supported programming system for
SOYER KTS-CNC stud welding machines



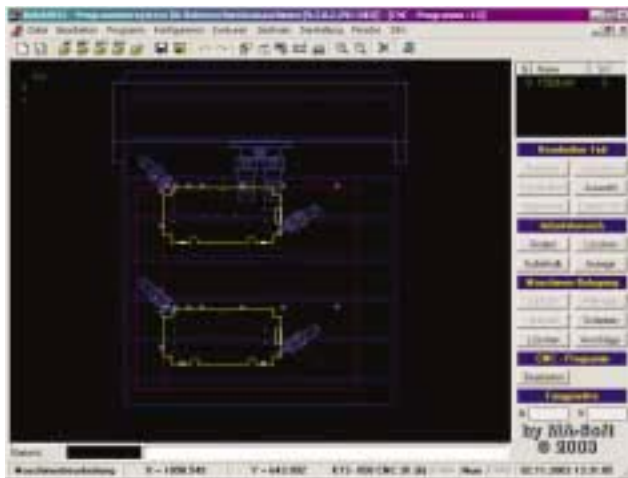
Features

- ▶ Support for all SOYER stud welding machines in the KTS-CNC series
- ▶ Easy operation using mouse or keyboard
- ▶ Interactive program for production of complex stud geometries
- ▶ Management and calculation of your total stud product line
- ▶ Request on collisions between studs during programming operations
- ▶ Simple acceptance and change of CNC programs already generated
- ▶ Integrated drawing part for generating graphics
- ▶ Comfortable management of all NC programs generated
- ▶ Short loading and storage times for large data volume
- ▶ Display of the welding-head travel distance
- ▶ Integrated multiple-stage travel-distance optimization
- ▶ Simulation of CNC programs on screen
- ▶ Acceptance of drawing data from CAD programs in DXF format
- ▶ Simultaneous editing of several parts
- ▶ Graphic options such as mirror imaging, rotation, and unrestricted real-time translation
- ▶ Automatic limit stop routines for geometries (rings, slanted contours, rectangles, etc.)
- ▶ Support for two-, three- and four-headed machines
- ▶ Integrated data transmission between PC and stud welding machine
- ▶ Automatic receipt of CNC programs from the machine
- ▶ Preview of all stored parts and programs
- ▶ Loading and storing macros
- ▶ Comfortable layer management
- ▶ Integrated material data base
- ▶ Integrated online help
- ▶ Multilingual program version



Programming

The simplest and quickest way to generate a CNC program for your stud welding machine is the import of drawing data from CAD programs in DXF format. As a result of this integrated DXF import from BolzitW32, it is possible to generate a complete NC program in only minutes. The studs can be set directly with a mouse click or even automatically using available layers and predefined diameters in the drawing data. In this case you don't even need to enter a single value via the keyboard. BolzitW32 carries out all the necessary steps for you.



Example of an imported DXF file



You can set all the required studs using the comfortable programming functions (circle, line, rectangle, individual). Using the program functions, you can enter absolute coordinates or relative coordinates in the X direction or Y direction with reference to the last stud set.

Individual program blocks can be copied, deleted and moved in X direction and Y direction.

Moving all programmed studs in the X direction and Y direction is also possible.

Welding-stud management



The recording, calculation and inventorying of all studs used in your production operations are made possible with the integrated welding-stud management of BolzitW32.

Geometric display

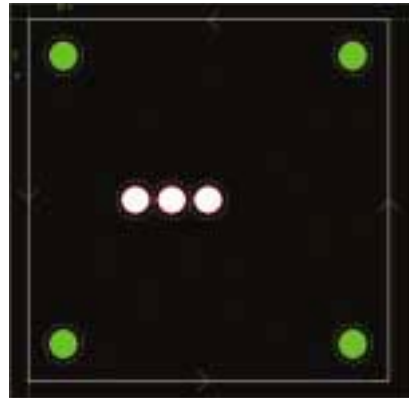


For importing drawing data from CAD programs, the orientation of the display and the layers can be set in the dialog. Individual layers can be overlaid or masked and the drawing can be rotated by any arbitrary angle or mirrored vertically or horizontally. The position of geometry can be freely defined.

Acceptance of your existing CNC programs

BolzitW32 allows you to continue utilizing your CNC programs already generated by acceptance and transformation into graphic programs. Thus, all comfortable generation and alteration possibilities from BolzitW32 are available to you.

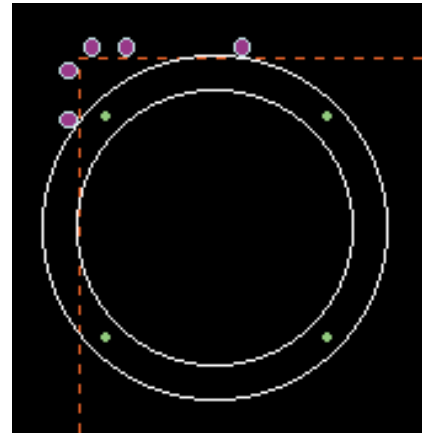
Collision monitoring



The collision request integrated in BolzitW32 informs you already during programming whether the studs set are too close to the limit stops or too close with respect to each other. The collisions are displayed on the screen graphically. A check test is also made as to whether the studs lie within the working range of the machine selected.

The collision request is dependent on the stud holder being utilized. Six standard stud holders and six freely defined special stud holders are taken into consideration. For safety reasons, a CNC program is not generated in the case of existing collisions. In special cases, a deactivation of the collision request function is possible.

Automatic limit stops



BolzitW32 has automatic limit stop routines for geometries such as circles, slanted contours and straight lines.

The example above shows the typical case for a circular ring with 4 studs which are positioned precisely. The prerequisite for these operations is the specification of the exact positions for the limit stops in the X and Y coordinates for the machine being utilized.

For BolzitW32, up to ten limit stop positions in the X and Y directions are taken into consideration.

Data management in BolzitW32

BolzitW32 manages up to 2000 different welding stud types and up to 99999 NC programs. Up to 200 different machine types can be managed. The number of the programmable studs is restricted to the available main storage.

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System requirements:

- ▶ IBM compatible PC with at least 1 GHz (Pentium® 1.7 GHz or compatible system recommended)
- ▶ Operating system: Windows™ 98/2000/XP
- ▶ Main memory 128 MB (256 MB recommended). At least 80 Mbyte of free memory for installation
- ▶ Approx. 50 Mbyte of free memory for your programs generated
- ▶ Minimum resolution 800 x 600 dpi for 256 colours (1024 x 786 x 16 recommended)
- ▶ Microsoft-compatible two or three button mouse

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SOYER top-of-the-range products awarded the following prizes for



Production



Quality



Technology



Design



Quality Management



International Approval



Safety



CE Conformity