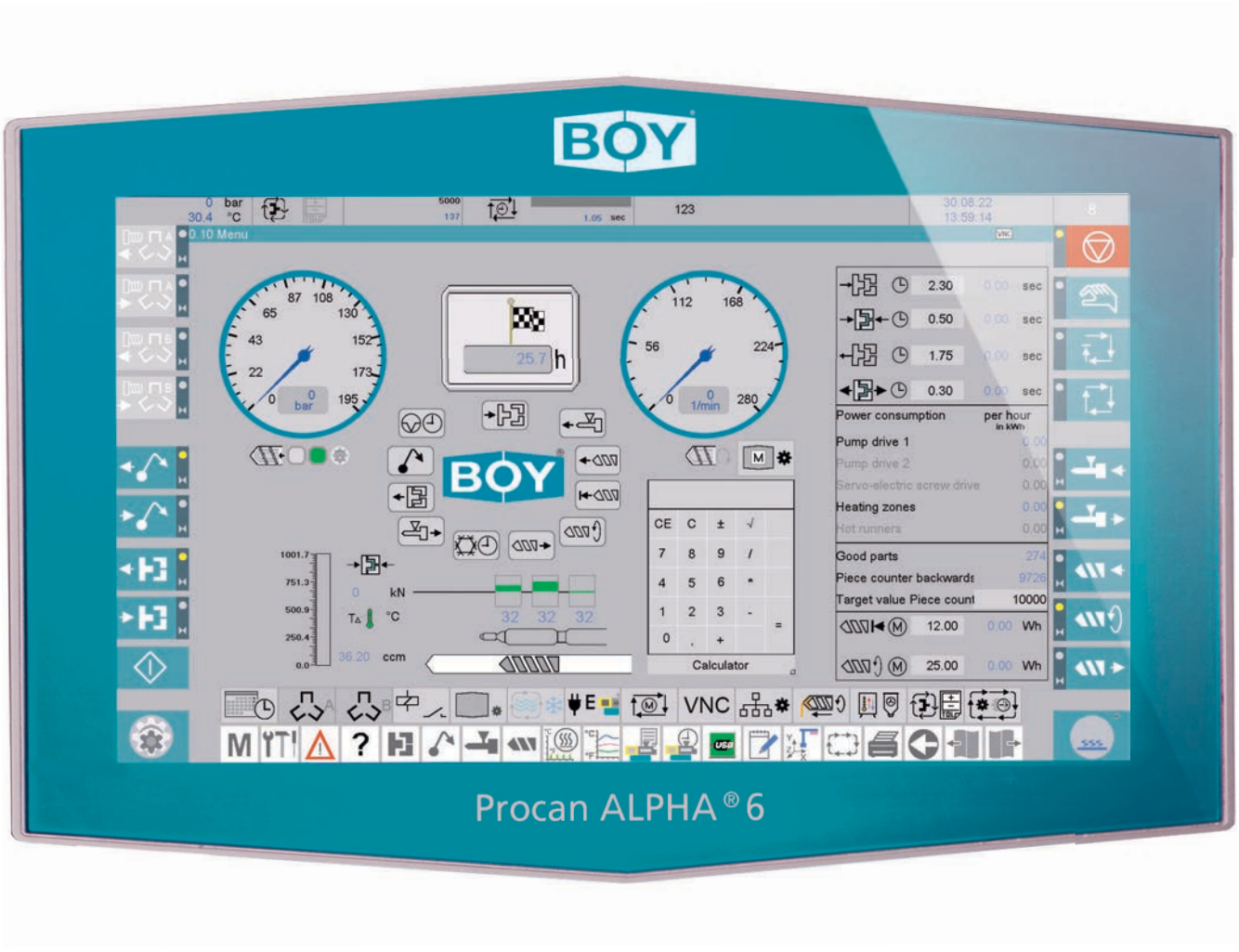
BOY®

Spritzgiessautomaten

Innovative into the Future – the new **Procan ALPHA® 6**

EM 77 / 83 OPC – UA

Connectivity



Control Procan ALPHA® 6

Easiest Operation – Maximum Information – Digital Connectivity

- Reduce your operation- and set-up times by the intuitive and fast Touch-Screen operation.
- Switch your BOY injection moulding machine online via WLAN-Stick and use e.g. the BOY-Status-App or enable a secure, remote-controlled monitoring of process-sequences or upon request an immediate assistance via remote maintenance from Neustadt-Fernthal.
- Precision, information and operation – in these fields the BOY controls have been market leaders for many years.

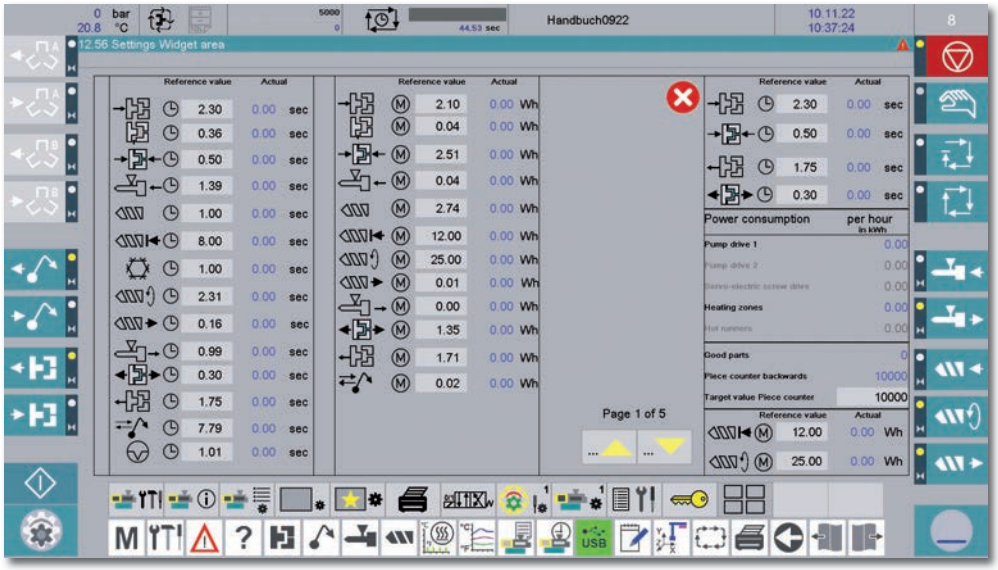
Digitalisation

BOY - WLAN - USB - Stick

Smart Control

The main difference of the new screen visualisation Procan ALPHA® 6 in comparison with the successful previous versions is a revised symbolism of the user interface as well as an additional Widget-area (input area).

- Individually creatable Widget-library with prefabricated modules (modular design).
- When clicking on an object of the library, this appears in the right-hand Widget-area.
- Free configuration / editing of the target and actual values.



With the modified visualisation of the user interface, users of previous BOY-machine controls won't have any problems in getting around with the new Procan ALPHA® 6, as the basic programming concept has been maintained.

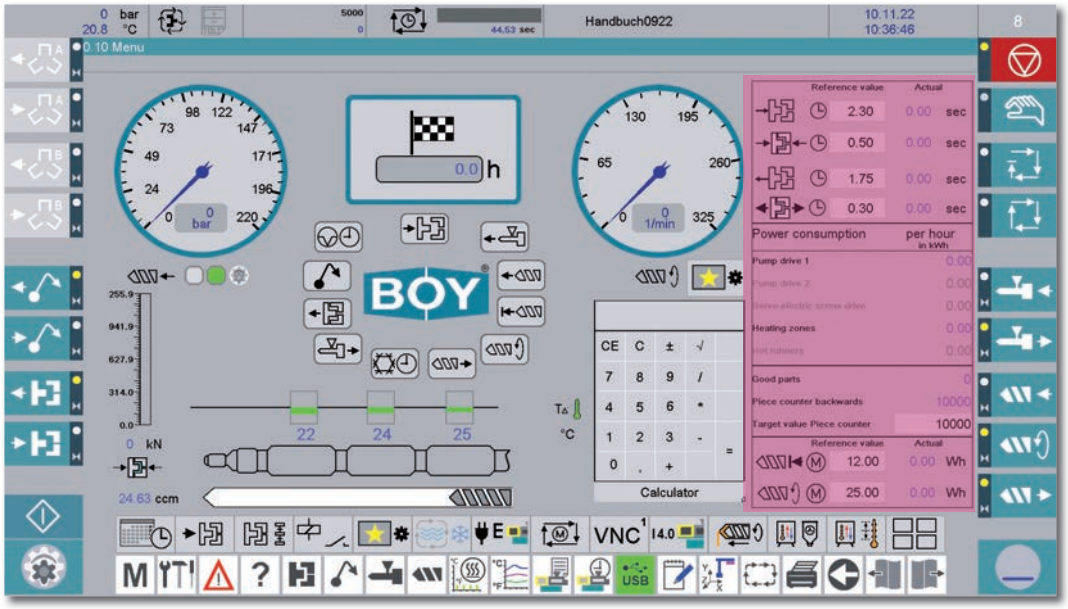
The display of the Procan ALPHA® 6 with the touch-surface still offers the advantages of a clear and intuitive machine control.

Networked machines – a big part of Industry 4.0

An important option of Procan ALPHA® 6 is the availability of an integrated OPC-UA Server in the machine control. Among other things this Server improves the connectivity of the injection moulding machine and is directly integrated in the control, which means the saving of high additional costs for the external OPC-Client and the wrapper. Therewith the interface definition Euromap 77 will also be on hand. The OPC-UA Server is part of the optional interface package.

Industry 4.0

- **The PCT-Technology (Projective Capacitive Touch) provides longer-lasting functionality without recalibration of the screen.**
- **More powerful CPU, which allows faster screen refresh times by 50 %. Full-HD density with 1,920 x 1,080 pixels (px).**
- **The touch surface has been protected with a stable safety glass cover.**
- **Due to the multi-touch technology, it is now possible to activate machine control buttons and simultaneously make set point inputs.**



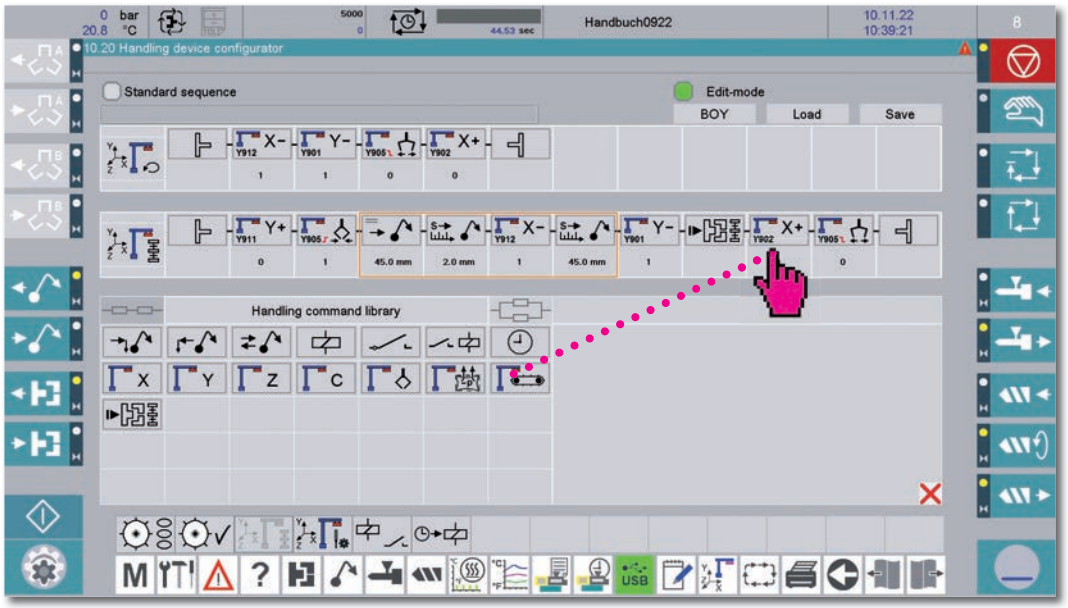
The input area (highlighted in colour) offers users a very useful library.

Like in a modular system, the most important setting data can be individually arranged by the user. Target value entries and the display of the determined actual values facilitate the operation in this „Widget-range“ enormously.

The welll-known concept of the very clear screen visualisations of previous BOY-machine controls has also been maintained for the Procan ALPHA® 6. The start screen with revised symbols which is shown here is also easily understandable for operators of previous BOY-controls and is clearly structured as usual. A particularly user-friendly advantage of the Procan ALPHA® 6 is the compatibility of the data sets with the Procan ALPHA® 4 control.

Existing data sets from this previous control generation can easily be adopted by the Procan ALPHA® 6.

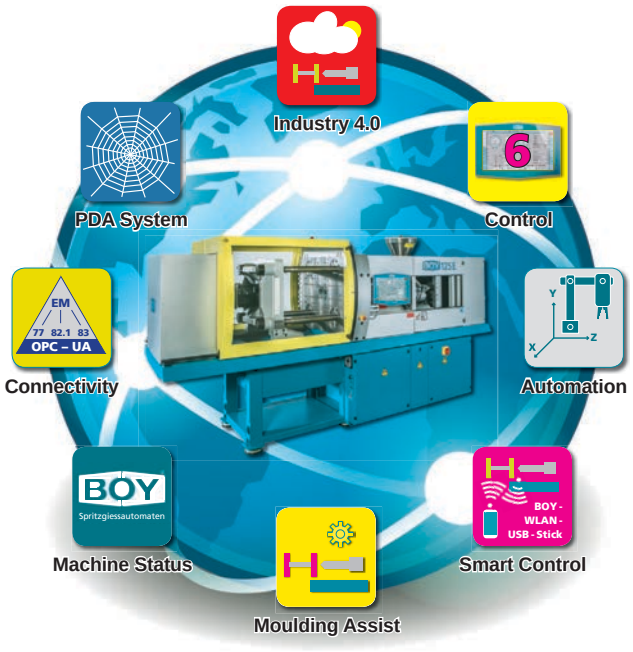
The presentation of the symbols was changed to a design that is particularly comfortable for the eyes. Special attention was paid to soft colours and structured symbolysm in the layout of the screen visualisation.



Screen page Handling configurator:
For the design of a perfect programming process the individual “elements” from the command library can be integrated into the programming process by the graphic process editor.

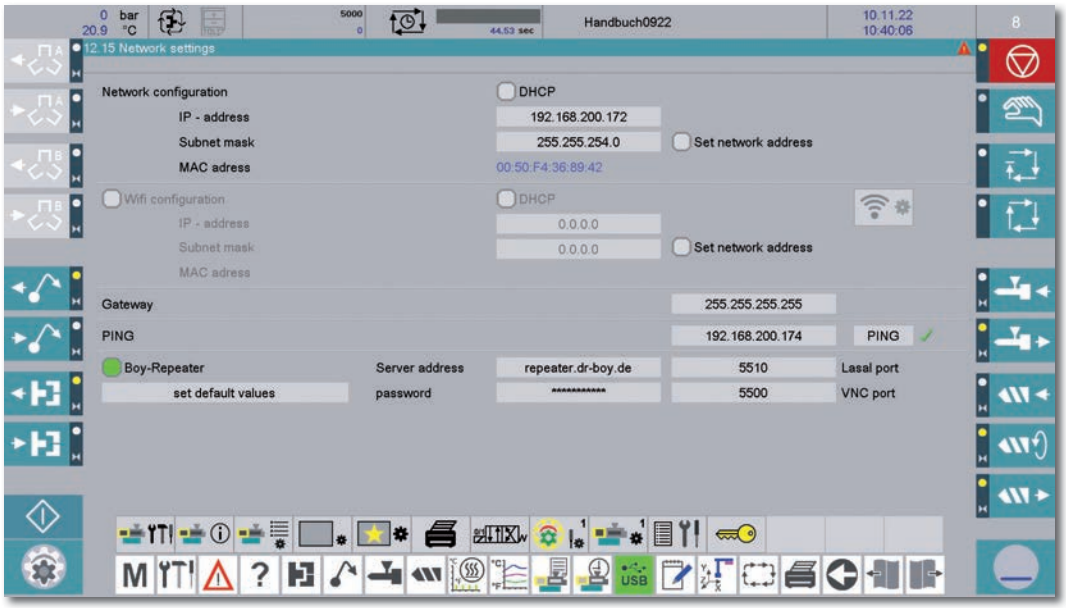
Simply touch the corresponding symbol, hold it and move it to the desired position in the programming process. Just as quick and easy are their changes of the positions within the process.

For each process sequence within the injection moulding cycle the graphic process editor offers the appropriate command library. In the picture on the left the graphic configuration of the clamping unit is shown as a sample.



The Procan ALPHA® 6 offers a variety of modified functions and advantages:

- Significantly improved MES-functions (Manufacturing Execution System) with optionally OPC-UA server
- Better position accuracy due to improved analog registration; the registration accuracy of the position sensors has been increased by the factor 10
- Doubling of the temperature control accuracy and halving of the tolerances
- Application of optimized fieldbus systems
- Improved processor performance; separate processors for display and control
- Hydraulic pressure-dependent switchover to holding pressure with stroke monitoring
- Improved constancy of cycle time; tolerance deviation less than 10 milliseconds
- Prepared for all drive technologies of the injection moulding machines



Screen page Network Settings

The networking of the injection moulding machine can be configured via this screen page. Via an existing customer-WLAN or a hotspot, a secure, remote-controlled monitoring of process-sequences as well as immediate assistance by remote maintenance via the BOY-Repeater from Neustadt-Fernthal are also possible.

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You would like to learn more about this BOY injection moulding machine?

Competence brochure

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