

Industrielle **ISH** Soft- und Hardware GmbH



SOFTWARE KNOW-HOW SINCE 1988

PUC-C|ontrol®

Powerful production software for punch presses

PUC-C|ontrol® - 20 years of know-how

PUC-C|ontrol® - powerful production engineering

PUC-C|ontrol® is a professional software system to control punch presses including the material handling from a coil. PUC-C|ontrol® is a fully developed and stable software system. It enables a simple, computer-aided programming of products, production control and host connections.

With PUC-C|ontrol®, you can create desired die-cutting products on a graphical, easy-to-use user interface. PUC-C|ontrol® generates and downloads the machining program automatically to the punch press.



PUC-C|ontrol® is built for punch presses with:

- eccentric presses
- hydraulic presses
- servo presses
- forming machines
- moveable cutters

Typical applications:

- › Eccentric punch presses with tool pusher
- › Hydraulic punch presses with multiple tool-frames
- › Hydraulic punch presses with cross adjusting axis, set-up axis and so on
- › Decoiler, lining machines and punch presses
- › Loopers, lining machines, punch presses, forming machines and moveable cutters
- › Material loading with handling unit, punch press and de-pilling/packaging



Convincing accomplishment and plenty of experience

FULLY DEVELOPED, STABLE AND HIGH EFFICIENT SINCE 1988

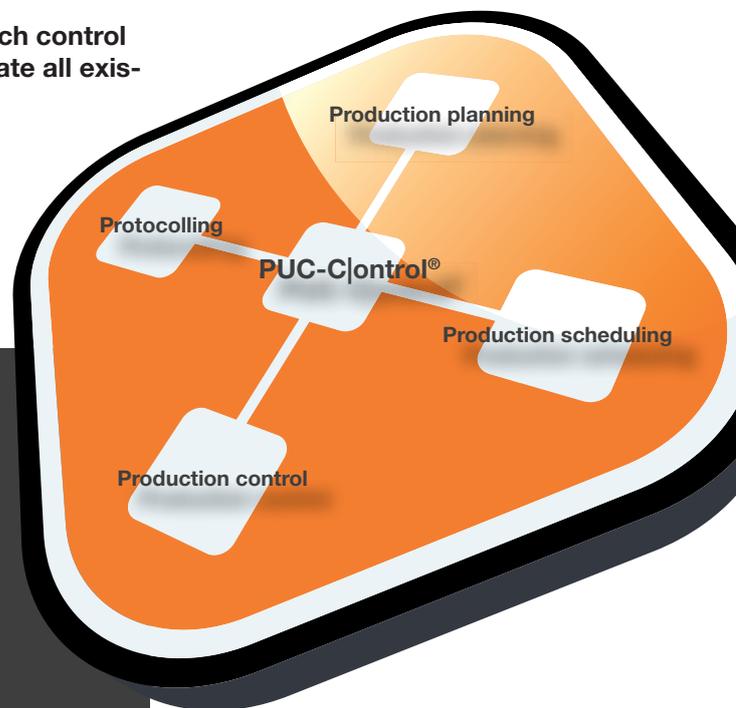
A well-thought-out control mechanism is the basement of a well-running production. More than 20 years of experience and an ongoing development made PUC-C|ontrol® to an extrem stable and sophisticated software package. On the one hand allows the elaborated system a maximum of flexibility in the production and the well-developed process- and control logic reduces at the same time the number of possible error-sources.

With PUC-C|ontrol®, you can control your production extremely quick an efficient. You can change the products and their programs shortly within several mouse clicks. Long time for programming is not needed anymore, even for complex products.

The editing-screen looks always the same, no matter which control unit is used. Therefore even unexperienced user can operate all existing punch press quickly.

PUC-C|ontrol® pros

- › Simple and intuitive handling through graphical user interface.
- › Lower set-up times and lower rejections.
- › Improvement of the product quality.
- › Quicker program change.
- › Produce even small amounts cost effective.
- › More advantage in competition through flexible production.
- › Same user-interface independent of the producer of the punch press.



PUC-C|ontrol® - The software in detail



Program administration

- › Various number of programs possible.
- › Distribution of the product programs in multiple directory levels possible.
- › Every program with HELP-file to support the set-up
- › Free selectable storage location (server, client)
- › Supports the product management



Product program creation

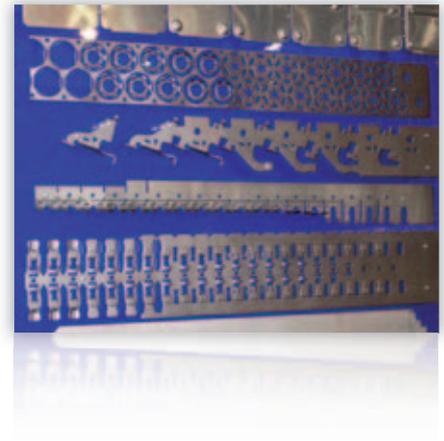
- › Input of the die-cutting coordinates with a graphical proof of the position and the tool outline.
- › Import of the die-cutting coordinates from text-, excel- or dxf-files possible.
- › Including of outline press cut.
- › Creation of master-boards with Excel-sheets to generate boards automatically after specification of the overall-length.
- › Create the program in the office, call and start the program at the workstation at the machine.



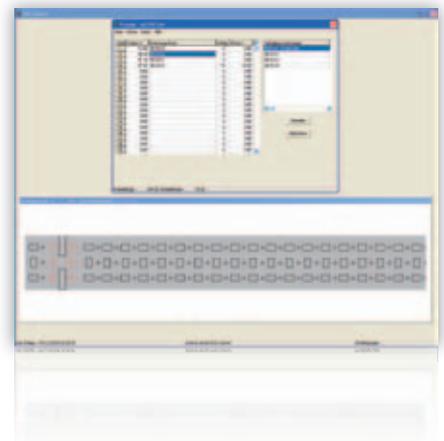
Production control

- › Correction of the product length by presetting the measured length and calculation of a correction value. The correction at the machine can be done with two different methods.
 1. Factor correction (every infeed value gets changed by a calculated factor)
 2. Linear correction (every punch position gets recalculated)
- › Acceleration- and deceleration ramps are getting calculated automatically for a gentle material machining.
- › Correction of the number of pieces during the progress.
- › Correction of the machine speed during the progress.

Various numbers of programs possible



Simple product program creation



Automatic production control





Protocolling

- Each job, which gets downloaded to the NC - controller, gets protocollod with date and time.
- If the value for the length, the speed or the number of pieces gets changed during progress, the changed value gets protocollod.
- continous protocolling of machine speed, machine state and machine faults.
- Simple manufacturing control and post calculation through permanent protocolling of all relevant data.

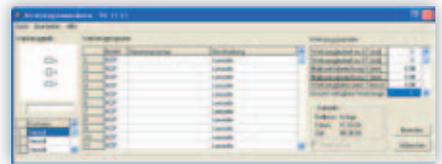
Protocolling of the whole sequence



Tool wear protocolling

By detecting the punch cycles for every tool it is possible to count every punching stroke. This enables the control and the preventive post-editing of the tools.

Tool program

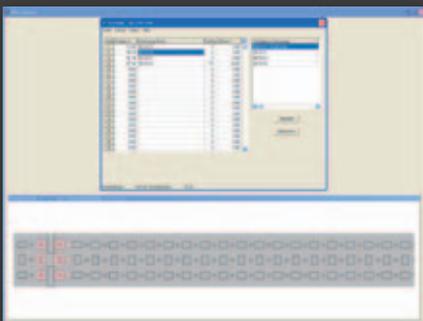


Fault display

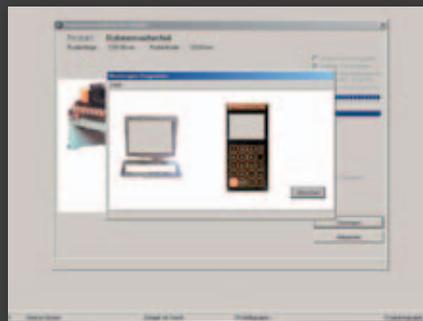
All fault messages which are coming from the NC-control, can get protocollod and displayed with date, start- and end time.

From the product planning to the finished product in few steps

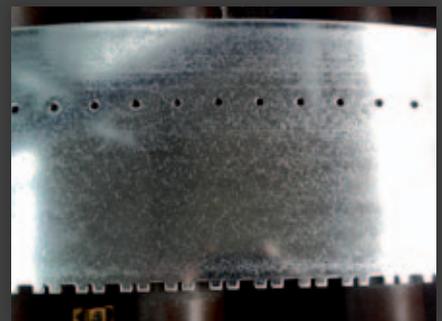
Simple program creation directly on your PC in the office



Automatic download of the program data to the PLC



Accurate production, perfectly protocollod



Control systems



COUPLABLE CONTROL SYSTEMS

PUC-C|ontrol® can access all control system, for example:

- › Indramat
- › Elau
- › Siemens SPS (S5, S7)
- › SMC
- › All control systems which are programmable via interface.



Simple change to SMC - controls

PUC-C|ontrol® is also to SMC-controls (digital version of the CLM control) compatible.

At existing PUC-programs, a simple update is enough to change to SMC. The handling of the program stays even after the update the same.



Product version



PUC-C|ontrol® is available in two different basic versions and four additional extensions each for each basic version.

Basic versions

PUC-C|ontrol® for eccentric punch presses

from 2 to 128 tools

PUC-C|ontrol® for hydraulic punch presses

from 2 to 128 tools with 11 axis

Extensions

1: linear correction

PUC-C|ontrol® with linear correction. Each punch position gets recalculated whereby a high accuracy can get achieved.

3: forming machines, moveable cutter

PUC-C|ontrol® with additional program creation for forming machines and moveable cutter.

2: endless / single piece production

PUC-C|ontrol® with optimization for endless- and single piece production. Due to the efficient control of the production, almost no trash occurs. Special advantage at order related production.

4: lowest tolerance

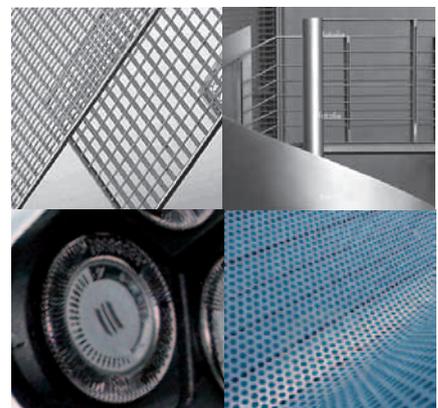
PUC-C|ontrol® Full machine control for continuous production with lowest tolerance.

Controls additional following components:

- looper
- punching machine
- forming machine
- moveable cutter
- unloading machine

Examples for special program versions

- › Gratings production
- › Production of step-elements of high-quality steel (e.g. cork-screw-stairs)
- › Smear head for electrical shaver
- › Perforation production
- › Production of cable-shieldings with production lengths up to 3000m
- › Production of shelf-systems
- › Production of furniture fittings
- › Racks for fluorescent lamps





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