

# ROUND0

## WCNC

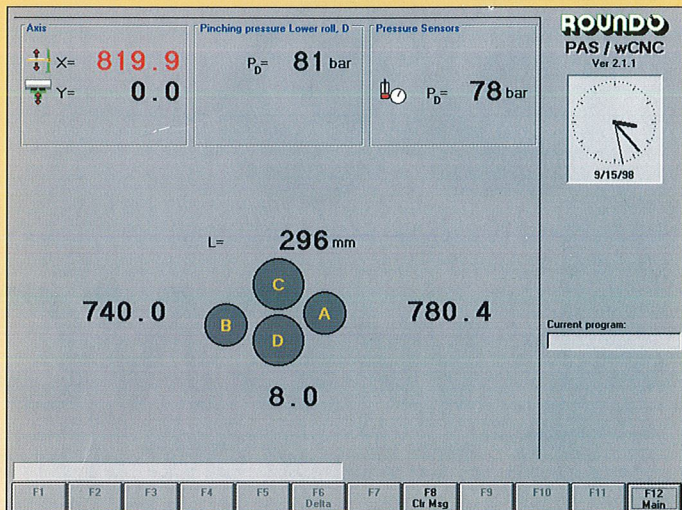
*PC-based CNC system  
for 3- and 4-roll  
Plate- and Section  
Bending Machines*



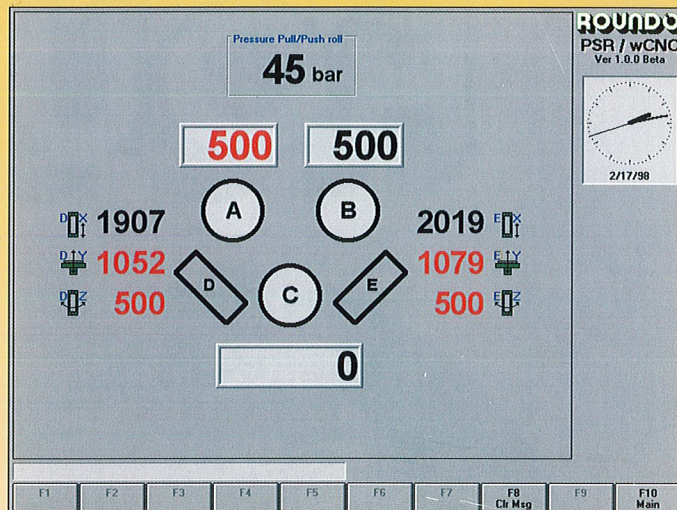
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# ROUND0 12-AXES PC-BASED wCNC SYSTEM



Screen view of 4-roll Plate Bending Machine



Screen view of 3-roll Section Bending Machine with 9 axes

## All ROUND0 fully hydraulic Plate- and Section Bending Machines can be equipped the ROUND0 wCNC system

This system, which is developed especially for ROUND0 bending machines, can control up to **12 axes**. Optionally, two of these axes can be positioned simultaneously, providing an **interpolation** function for smooth transitions when rolling complex shapes with multiple radii. The ROUND0 wCNC system controls speed, ramps and pressures for highest precision and can also control roll parallelism and tilting.

The accuracy of the system makes it possible to produce the most complex products, such as ellipses, bucket shells, arcs with several radii and other objects that can be produced manually only with great difficulty.

The ROUND0 wCNC system can, besides controlling the bending rolls, also control the **guide rolls, pushing- and pulling roll unit** etc. for the Section bending machines and **support rolls, lifting devices** etc. for the Plate bending machines as well as external functions such as **material infeed, ejection** etc. enabling a fully **automatic production** process. The features of the control system makes it easy to adapt to our customers' different demands and special bending applications.

The ROUND0 wCNC system is operated via an Industrial PC terminal, including keyboard and colour monitor, placed at the machine's control unit. The machines are easy to operate and do not demand any previous CNC experience.

The positions of the axes and other important information is presented comprehensibly and clearly on the large screen, which is easy to read even at distance. The terminal in combination with the practical **stepless joystick** controls, give the operator the best possibilities to operate the machine both manually and in CNC-mode.

The ROUND0 wCNC system runs under Microsoft Windows™ and the PC communicates with the **RCMU (Roundo Master Control Unit)** through a **CAN** field bus system. This enables high speed transfer rates and reliability between the PC and the RCMU, which controls all axes, inputs and outputs of the machine.

All CNC bending programs as well as machine dependent constants and language support are stored in data bases on the hard disk. Therefore there are practically no total limits of programs or steps inside a program.

Possibilities to **print** all programs etc. by any Windows™ compatible printer and the wCNC program can run on any Windows™ based PC as a stand alone program without the machine. This makes it possible to connect the machine to a network for back-up purposes etc. The machine can run a program at the same time as the data base is in use with another PC, i.e. true **online** programming.

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All design, capacities and technical data are subject to change without prior notice.

