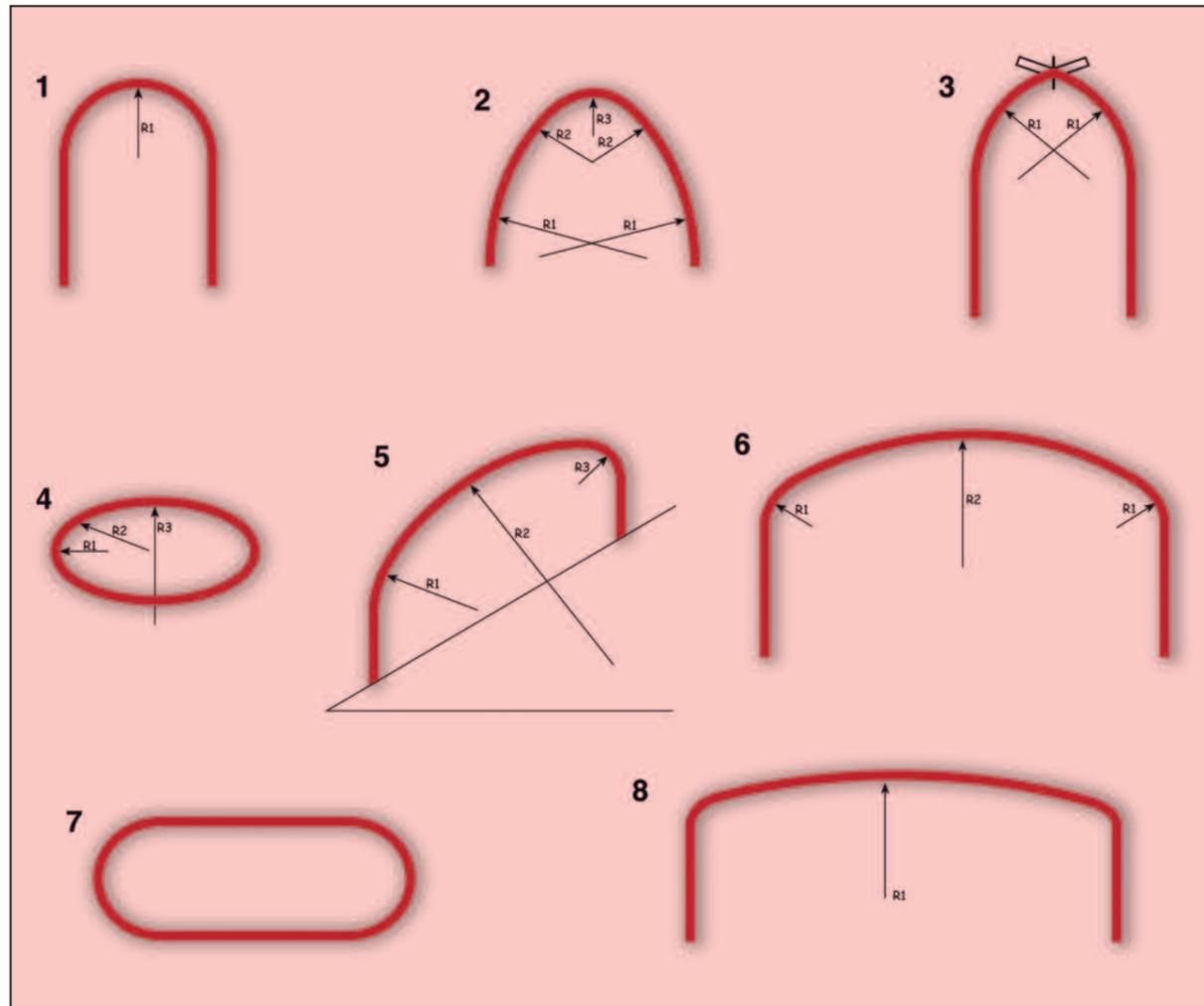


BENDING EXAMPLES



COMPUTERISED COMPACT NUMERICAL CONTROL

BENDING RADIUS
PREDETERMINATION

BENDING AT
VARIABLE RADIUS

INSIDE STORAGE FOR
PROGRAMS SAVING



05/2013

The data are merely indicative and they can vary without notice, so they cannot be considered as binding.



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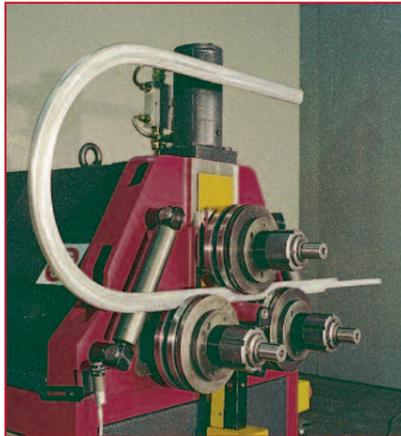
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FEATURES CNC-C

CNC-C means Computerised Compact Numerical Control. Thanks to the small size offered by the most modern technology and a competitive price it has been possible to obtain a powerful, reliable and suitable product.

Tearing bending machines can be equipped with this device, which gives the possibility to realise any shape of regular and irregular geometrical bending.

The machine equipped with the **CNC-C** device executes automatically and in only one pass up to 30 program steps (in the same bar 30 bends of different radius), by simply setting the radius and development in mm of each segment composing the shape.



Aluminium profile bending with machine DELTA 50 CNC-C

Inside storage can contain up to 20 programs. Each program can be composed of 30 steps. The **CNC-C** device disposes of two speeds for the axes displacement. The several bends can consequently be harmoniously joined together, avoiding undesired squashings.



CNC-C COMPUTERISED COMPACT NUMERICAL CONTROL



This control has been designed and realised to satisfy first of all the requirements of window and door frames constructors and anyway of all the constructors who bend tubes and metal sections, at a variable or fixed radius (like greenhouses, furnishings, children pleasure grounds, coverings for sports fields, etc.).



On request our bending machines can be equipped with a storage expansion card, with which it is possible to execute round arches, depressed arches, three-centered arches, ovals and other shapes, by simply setting some essential data, as width and height.

CNC-C bending machines can work also in manual such as hydraulic adjustment machines.



GENERAL FEATURES

The **CNC-C** device is composed of a very modern and reliable 16 bit microprocessor.

All the input and output signals are optoisolated and protected from cable or ether noise reception.

The keyboard is of alphanumeric type with multifunction keys.

All the keys are mechanical and protected by a lexan membrane suitable to work in any industrial environment.

The two axes visualisation is made by means of a rear-lightened liquid crystals display (LCD), allowing a very good reading from any angle and with any kind of light.

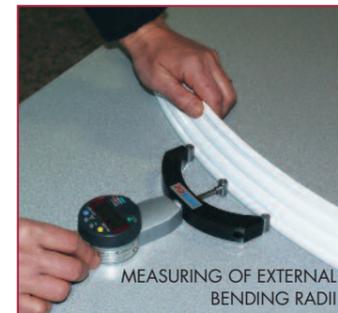


Swimming-pool covering realised with DELTA 50 CNC-C

ALFA 40 CNC-C



The very useful electronic archmeter **ARC 50/130, ARC50/300** is supplied with the **CNC-C** machine. It is used for the direct measuring of the bending radii on LCD display.



MEASURING OF EXTERNAL BENDING RADII



A specific wireless interface (optional) allows you to get and automatically send to the **CNC-C** the radius up to 25 m. long. This allows the creation and automatic editing of bending radius and any other kind of control.

AUTOMATIC CYCLE

The operator can introduce the profile between the rolls without minding its positioning.

Once the operator has selected the automatic cycle he operates the pedal unit to start cycle. The bending roll moves to the tangent position and the profile starts to execute translation between the rolls. In this first phase a photocell intercepts profile's beginning and activates simultaneously the beginning of axis translation control.



DELTA 60 CNC-C Encoder in details



The machine performs all the operations necessary to complete desired shape until the bent profile comes out from the bending machine.

Each program's step can be in scalar or progressive adjustment. This last adjustment gives the possibility to obtain harmonious joints wrinkles even by using tubes and thin-wall profiles.

Naturally each bending is carried out in only one pass. Before shipment each machine is tested.

This operation is considered very important to give the Customer much satisfaction and a reliable high quality product.