

# CNC Coordinate tables

The BAZUS automatic series has been developed for automated industrial process applications. The system is designed mechanically and electrically according to the degree of automation required and the precision and repeatability needed.

**“KINEMATIK SNC”**, is an automatic positioning system (SNC). It is a simple and, at the same time, an extremely useful solution because it provides the possibility of conducting a large number of activities by programmed movements at specific programmed speeds.

**KINEMATIK SNC** is controlled by means of the “Quick Panel”, where user find all information to operate with the system in any of its Working Mode (Automatic, Manual and PC Communication). “Quick Panel” is equipped with “Touch screen” to select the Work Mode, buttons Power ON/OFF, Cycle ON /OFF and Emergency Stop.

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**BAZUS commitment:**

- The highest quality, robust and durable coordinate tables on the market.
- Tables with the finest linear positioning and without spindle-play.
- Coordinate tables made 100% in Europe.

**Customized solutions:**

BAZUS, your trusted partner for high-performance positioning systems, provides the right solution for any application, specifically designed or customized to the characteristics and requirements of your activity.

Whatever your coordinate table, thanks to more than 100 years of continuous improvement, you will have a partner who offers solutions to all your positioning and movement requirements with many different applications available worldwide.

**The first guarantee, for 5 years:**

Why settle for a 2 year warranty? At BAZUS we believe that, if the coordinate tables do not expire at this time, neither should the professional attention received. So once again we want to change the rules. 5 year guarantee.

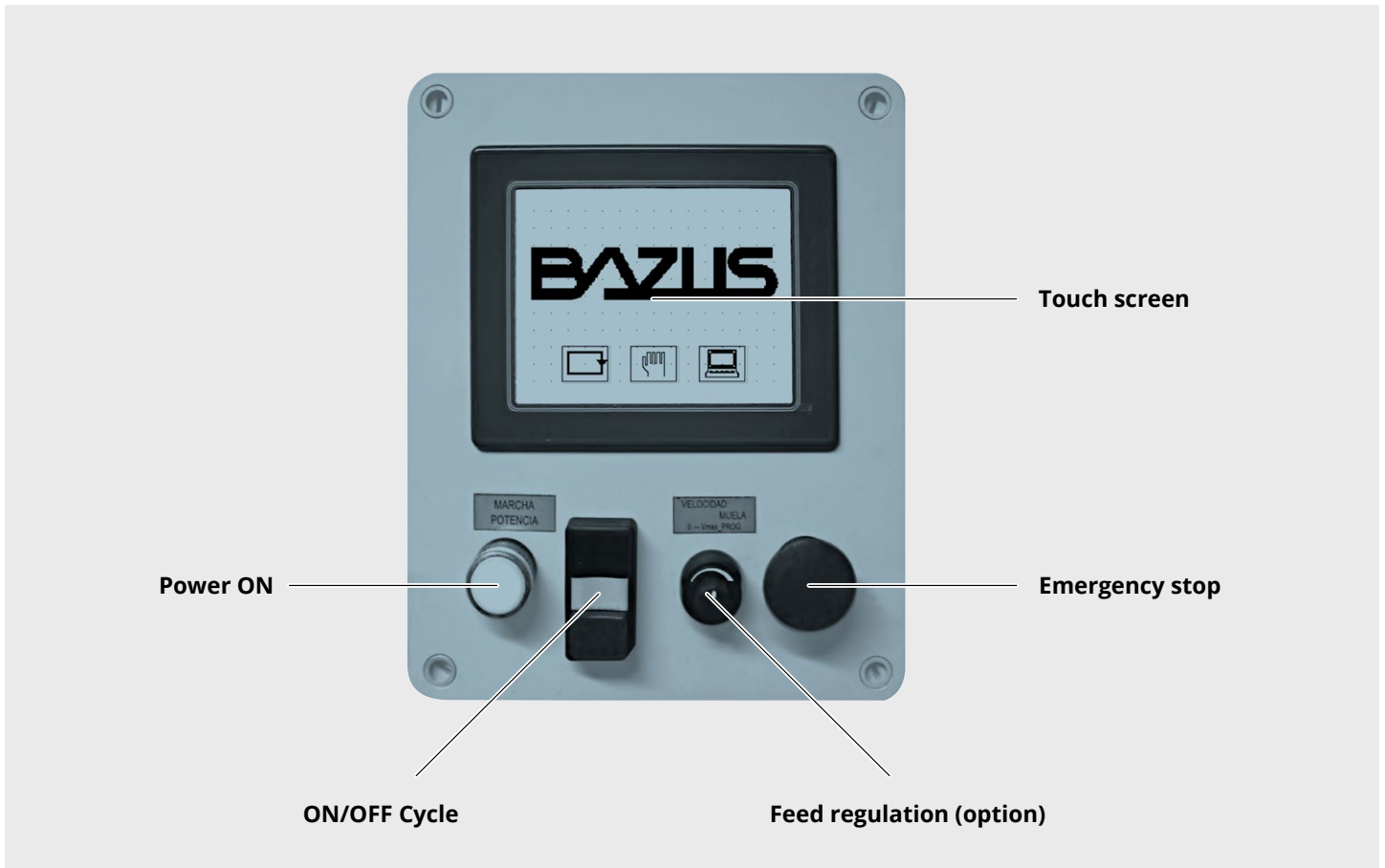


## Equipment:

The BAZUS Slide units controlled by means of the KINEMATIK SNC are equipped with following equipment in the standard version:

- Preloaded ball screws with double nut (high accuracy)
- Displacement by means of linear guides (big load capacity) or dovetailed guides (ant vibration)
- Special bearings high accuracy in all units
- SNC "Quick Panel" with high resolution touch screen
- Brushless motors
- All elements ready to plug and work (easy start up)
- Construction in stabilized high quality cast iron GG25
- Feed range 12-7000 mm/min
- Screen resolution: 0.01 mm
- Positioning accuracy: 0.01 mm

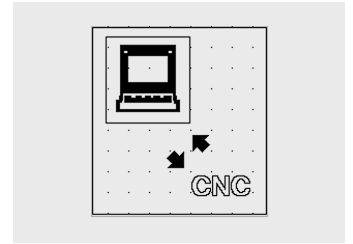
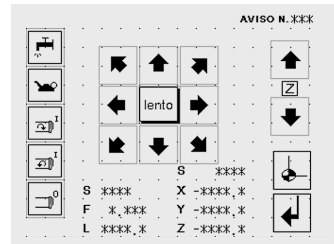
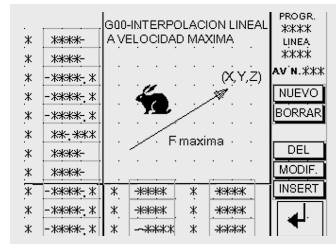
*Under request, the BAZUS Slide Units can be also equipped with any other standard CNC (Fagor, Fanuc, Heidenhan...)*



## Quick panel

The BAZUS units equipped with the Kinematik CNC are supplied ready to connect and work:

- **Kinematik table** with motors and HOME/ZERO reference mounted all items ready and verified, ready to connect and work.
- Electronic board with all the electrical and electronic elements necessary for calculations and positioning.
- **"Quick Panel"** control with touch screen for selection of work mode, emergency stop, cycle start / stop. Connected with "Electronic board" with 5m cable, allowing the user to place the Quick Panel in the most suitable position.



## Working mode

KINEMATIK tables are able to work in 3 different "Working Modes". Trough the Touch Screen user can select appropriated Mode.

### Mode Selection

- Automatic
- Manual
- Communication

### 1 Automatic Mode

ISO friendly environment Programming trough Ginstructions (G00, G01, G90...) and M functions (synchronization with external devices).

### 2 Manual Mode

Actual position read out / HOME reference & LIMIT switches / Feed and displacements with visual icons.

### 3 Communication Mode

Only for users with DYFE (PC Windows) software, which allows user to programme the KINEMATIK system with a PC and connect the system trough RS232 output.

G	Data	Description
G00	N XYZ M S	Lineal interpolation max. Feed
G01	N XYZ F M S	Lineal interpolation programmed F Feed
G02	N XYZ F U M S	Circular interpolation right
G03	N XYZ F U M S	Circular interpolation left
G04	N K	Chronometer (in seconds)
G10	N M	Increase the piece counter
G25	N K R	Repetition / Cycle loop
G55	N M T D	Tool length
G90	N M	Change to Absolute programming mode
G91	N M	Change to Incremental programming mode
G92	N XYZ	Coordinates selection as ZERO
G93	N M	Cancel G92 selection
G94	N M S	Change to mm/rev (tapping)
G95	N M S	Change to m/min



## Accessories

KINEMATIK tables can be equipped with the any special accessories required by the application: Output signal (synchronization with external device; available till 20 outputs), increase of speed, (for applications in which high speed is required), or any other special equipment (feed regulation, electronic hand wheel, tapping function...)

Software DYFE for PC Communication: The software "DYFE" developed by BAZUS is a powerful tool for programming the KINEMATIK systems in a friendly PC WINDOWS environment. "DYFE" is extremely easy-use software (usability) that allows user to programme movements and speeds by ISO code instructions. Moreover "DYFE" offers Help Windows for programming where user can find all information and instructions to programme in an intuitive way.

