

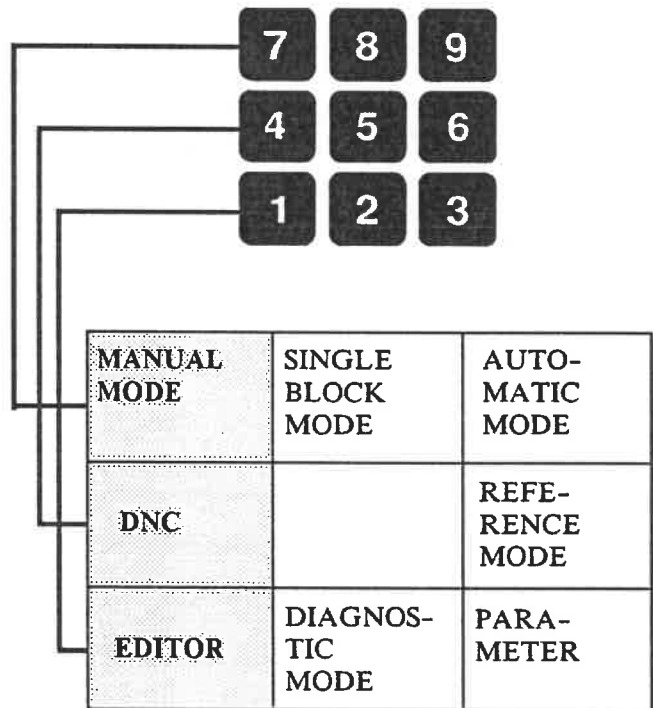
# 1. Control System Operation Menu System and Softkeys

## Menu system

The control system facilitates programming by means of the so-called menu technique. The available functions are displayed on the monitor and can be selected by pressing keys.

## Softkeys

Each number key has the function indicated in the square field on the monitor. As the given functions of the keys vary according to the display, they are called softkeys.



## Operating mode menu



Pressing the operating mode key will always produce the operating mode menu.

The display shows the operating mode menu:

MANUAL MODE	SINGLE BLOCK MODE	AUTO-MATIC MODE
DNC (*)		REFE-RENCE MODE
EDITOR	DIAGNOS-TIC MODE	PARA-METER

(\*) Optional feature



This symbol will be given in the manual whenever a softkey is to be pressed.

**“Browsing” through the menus**  
Operating modes are selected by softkeys.



Press softkey for MANUAL CONTROL mode (number key 7).

The screen displays the first menu in MANUAL CONTROL mode.

FEEDRATE MM/REV.	SPEED REV./MIN	V-CONST M/MIN
TOOL SETTING MODE	T TOOL	SPINDLE SELECT >
H-WHEEL X-AXIS 0.01	H-WHEEL Z-AXIS 0.01	MACHINE FUNC- TIONS



Press softkey FEED MM/REV.  
Number key 7 now has a different function.

The screen displays the corresponding submenu.  
The symbol > means that a follow-up menu can be selected.

7	8	9
4	5	6 >
1	2	3



Press the "continue" key to reach the follow-up menu on the same level.

The screen displays the follow-up menu on the same level. The symbol < means that no further menu is to follow.

VARIABLE EXPRESS. "..."		SIMPLIF. GEOMETRY "?" <



Press the "continue" key again.

The menu on this level reappears.

7	8	9
4	5	6 >
1	2	3



Press the "Up" key to reach the next higher menu level.

The first menu of MANUAL CONTROL mode will reappear.

FEDRATE MM/REV.	SPEED REV./MIN	V-CONST M/MIN
TOOL SETTING MODE	T TOOL	SPINDLE SELECT >
H-WHEEL X-AXIS 0.01	H-WHEEL Z-AXIS 0.01	MACHINE FUNC- TIONS



The main or highest menu level is the **operating mode menu**. The operating mode menu can be accessed only by pressing the operating mode key, not via the "Up" key.

**Note**

The operating mode key reaches the operating mode menu from every other menu level.

MANUAL MODE	SINGLE BLOCK MODE	AUTO- MATIC MODE
DNC		REFE- RENCE MODE
EDITOR	DIAGNOS- TIC MODE	PARA- METER

## **Graphic Operator Support**

### **Graphic editing support**

The graphic editing support illustrates the data required by the control system.

For example:

In EDITOR operating mode, the meaning of required addresses is displayed for certain G-functions.

In MANUAL CONTROL operating mode, the tool type dimension addresses are illustrated.

### **Graphic simulation (option)**

The graphic simulation of the machining procedure facilitates controlling the program.

For explanations on the graphic simulation and how it is activated, see section 4.

