E700 tree of menus and functions

User interface

- **TOOL POS** — Position display (jogging).
  - **F1** *ORIGIN* — Origin offsets.
    - **F1** *REF* — Display without offsets.
    - **F2** *MACHIN* — Display with factory offsets.
    - **F3** *IN USE* — Display with all the offsets.
  - **F2** *GOTO* — Go to a position.
  - **F3** *TEACH* — Set of an offset using teach-in (absolute value).
  - **F4** *INC-* — Set of an offset using teach-in (incremental value).
  - **F5** *INC+* — Set of an offset using teach-in (incremental value).
  - **F6** *OTHER*
    - **F1** REF — Manual reference point search function.
    - **F2** *WH ON* — Enable electric wheel.
    - **F3** *WH OFF* — Disable electric wheel.
    - **F5** *IN ON* — Enable the real time input state display.
    - **F6** *IN OFF* — Diasable the real time input state display.
- **EDIT**
  - **F1** *STEP* — Breakpoint edition.
  - **F2** *SAVE* — Save the current edited file.
  - **F3** *INS LN* — Insert a line in editor.
  - **F4** *DEL LN* — Delete a line in editor.
  - **F5** *HOME* — Set the cursor to the beginning of the line.
  - **F6** *END* — Set the cursor at the end of the line.
- **MEM**
  - **F1** *P.ON* — Select the power-on programme.
  - **F2** *CYCLE* — Select the cycle programme.
  - **F3** *SAVE* — General save.
  - **F4** *ISOCHK* — Check the cycle programme syntax (ISO language).
  - **F5** *UTIL* — File utilities.
    - **F1** *NEW* — Create a new file.
    - **F2** *DELETE* — Delete a file.
    - **F3** *COPY* — Copy a file to the SD card or to internal memory.
    - **F4** *SDCARD* — Select the SD card.
    - **F4** *INTMEM* — Select the internal memory.
    - **F5** *FILTER* — Choose the file type to be displayed.
    - **F6** *OTHER*
      - **F1** *RENAME* — Rename a file.
      - **F2** *DUPL* — Duplicate a file.
      - **F3** *WPROT* — Set a file to read only mode.
      - **F4** *TRANS* — Transfer of all the file to the SD card (or to internal memory).
      - **F5** *CLEAN* — Delete all the files from internal memory.
- **TRACE**
  - **F1** *WATCH* — Real time value display.
    - **F1** *DEF* — Default values (EMER, INITRDY, FLT[0] and RST[0]).
    - **F2** *LAST* — Allow the display of the last four values.
    - **F3** *MODIFY* — Modification of a value in real time.
  - **F2** *MDI* — MDI mode.
    - **F1** *EXEC* — Command execution.
    - **F3** *PREV* — Command history, previous one.
    - **F4** *NEXT* — Command history, next one.
  - **F3** *AUTOM* — Trace in AUTOMAT.E7M programme.
  - **F4** *PROG* — Trace in currently running programme.
  - **F5** *SIM -* — Trace in previous simultanous task.
  - **F6** *SIM +* — Trace in next simultanous task.

MENU

- **F1** *USER* — User parameters I.
  - **F1** … — First table.
  - **F2** … — Second table.
  - **F3** … — Third table.
  - **F4** … — Fourth table.
  - **F5** *MONIT* — Monitor display. Real time value display. Only if MUSER.INI is not empty.
  - **F6** *OTHER* — Next parameter set, if there is one. (User parameters II)
    - **F1** … — 5th table.
    - **F2** … — 6th table.
    - **F3** … — 7th table.
    - **F4** … — 8th table.
    - **F5** … — 9th table.
- **F2** *ORIGIN* — Origins (G54… types and G60 Dxx).
  - **F1** *INDEX* — Select the origin number.
    - **F1** *EXIT* ou — In G60, select D number or
    - **F1** *G54* — Select G54.
    - **F2** *G55* — Select G55.
    - **F3** *G56* — Select G56.
    - **F4** *G57* — Select G57.
    - **F5** *G58* — Select G58.
  - **F2** *SUB* — Subtract of a value.
  - **F3** *ADD* — Addition of a value.
  - **F4** *RADIUS* — Radius setting (G60 mode only).
  - **F5** *G54-8* — Select G54 to G58 type mode.
  - **F6** *G60* — Select G60 Dxx type mode.
- **F3** *TOOL*
  - **F2** *SUB* — Subtract of a value.
  - **F3** *ADD* — Addition of a value.
  - **F5** *TOOL-* — Decrement the tool number.
  - **F6** *TOOL+* — Increment the tool number.

- **F4** *COM*
  - **F1** *BUS* — RS-485 bus.
    - **F1** *BS SRT* — Bus Start. Start the connection as the master (only one master).
      - **F1** *YES*
      - **F2** *NO*
    - **F2** *BS SCN* — Bus Scan. Search for who is on the bus (must be started).
    - **F3** *BS OFF* — Bus OFF (disconnection).
    - **F4** *BS ON* — Bus ON. Start the connection as a slave (all the others).
    - **F6** *INFOS* — Informations on the state of the RS-485 bus.
      - **F1** *EXIT* — Exit of *INFOS* display.
      - **F2** *SEND* — Send to EmbOSView.
  - **F2** *USB* — USB communication (optional COM board).
  - **F3** *ETHNET* — Ethernet communication (optional COM board).
    - **F1** *XPING* — Test of Ethernet communication (XPort AR ping. Restricted use, only in case of troubleshooting)
    - **F2** *UINFOS* — User informations. 15 user variables stored in XPort AR RAM.
      - **F1** *FILE* — Creation of a file in XPort AR Flash memory.
        - **F1** *XML* — Internet style page file (\http\Userinfos.xml)
        - **F2** *CSV* — Comma Separated Values (\http\Userinfos.csv)

        then
        - **F1** *WRITE* — New file (overwrite the old one)
        - **F2** *APPEND* — Append to the existing file
      - **F3** SEND — Send a value through Ethernet (on the Web User Infos page)
      - **F5** *TYP -* — Modify the data type (Long, Float or Bool)
      - **F6** *TYP +* — Modify the data type (Long, Float or Bool)
    - **F3** *REMLOG* — Remote Log to send message. Tag REMLOG at address http://a.b.c.d/Config (Uppercase letter 'C'!) and do RESET. Use RemLogProject.exe to receive on the PC side. The port number between E700 and PC must match. Choose a port greater or equal than 2000.
      - **F1** *OPEN* — Open the line. Start with this!

F2 *CLOSE* Close the line when communication work is over.
F3 *SEND* Send the message introduced through the keyboard.
F6 *LIST* Display a message list which is stored in read only memory in cpu _comscr.c.

F5 *OSVIEW* Send the communication state on the embOSView terminal.
F6 *RESET* Reset of XPort AR. Same effect than power off of COM board. Expect a long time to initialize !

F5 *DNC* DNC RS-232 communication. (Direct Numerical Control).
The E700 can send or receive a file. In the case of DNC, the E700 is asking. The goal is to centralize the programmes.

F1 *EXEC* Execute the operation.
F4 *LIST* In the case of sending/reception of any file (only in this case), the INI files are prepared in a list to avoid full edition of filenames..
F5 *OP -* Select an operation in the following:
F6 *OP +*

Reception/sending of ISO/Uniprog/any file. With the ISO and Uniprog operation, the file extension is not mandatory.

F6 *RS232* Select the RS232 communication, used with E700File.exe.

F5 *CONFIG* E700 configuration

F1 *GEN* General configuration (Max RPM 10 V, Inv. Tool Correct., remote control and axis number).

F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*

F2 *NAME* Name of the AXISs
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F6 *NO NAM* Pour «boucher les trous» (AXISs inexistants)

F3 *AXISS* Paramètres des AXISs
F1 *DRIVER* Axis driver parameter
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F2 *YASKAW* Yaskawa driver parameters. Typical configuration. No confirmation !
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value
F2 *MOTION* Motion parameters
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F2 *MODULO* To parametrize a circular axis (ex : MODULO 360 degrees)
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value

F3 *SPEED* Speed parameters
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value
F4 *REF* Reference point parameters
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F2 *YASKAW* Yaskawa driver parameters. Typical configuration. No confirmation !
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value
F5 *DIR* Direction parameters (moteur rotation direction) and limit switch configuration
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value
F6 *WHEEL* Electrical wheel configuration
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F3 *AXIS -* Select the axis to configure
F4 *AXIS +* Select the axis to configure
F5 Change the value
F6 Change the value

F4 *EXTERN* External button definition (START, STOP and PAUSE)
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F3 *NO* Change the value
F4 *YES* Change the value
F5 - Change the value
F6 + Change the value

F5 *LNG* Language selection
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F5 - Change the value
F6 + Change the value

F6 *OTHER* Other parameters
F1 *PROG* Enable or disable Start and Cycle programmes
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*
F5 - Change the value
F6 + Change the value
F2 *USER* Any user parameters
F1 *DEF* Default values (factory values)
F1 *YES* Confirmation
F2 *NO*

F3 *ACCESS* Access management
- **F1** *TPOS* TOOL POS page access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*
  - **F5** *NO* Change the value
  - **F6** *YES* Change the value
- **F2** *EDITOR* EDIT page access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*
  - **F5** *NO* Change the value
  - **F6** *YES* Change the value
- **F3** *MEM* MEM page access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*
  - **F5** *NO* Change the value
  - **F6** *YES* Change the value
- **F4** *TRACE* TRACE page access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*
  - **F5** *NO* Change the value
  - **F6** *YES* Change the value
- **F5** *MENU* MENU page access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*
  - **F5** *NO* Change the value
  - **F6** *YES* Change the value
- **F6** *SUPER* Password and security key access management
  - **F1** *DEF* Default values (factory values)
    - **F1** *YES* Confirmation
    - **F2** *NO*

F4 *SYSTEM* Any system parameters
- **F1** *DEF* Default values (factory values)
  - **F1** *YES* Confirmation
  - **F2** *NO*

F5 *COM* Communication parameters (DNC and RS-232)
- **F1** *DEF* Default values (factory values)
  - **F1** *YES* Confirmation
  - **F2** *NO*
  - **F5** - Change the value
  - **F6** + Change the value

F6 *OTHER* Any parameters (ISO from SD card)
- **F1** *DEF* Default values (factory values)
  - **F1** *YES* Confirmation
  - **F2** *NO*
- **F5** *NO* Change the value
- **F6** *YES* Change the value

- **F6** *OTHER* — Diverse parameters
  - **F1** *LOGIN* — To log in as Superuser
    - **F1** *LOGIN* — Log in
    - **F1** *LOGOUT* — Back to operator mode
  - **F2** *TESTS* — Hardware tests
    - **F1** *ENCOD* — Encoder test (electrical wheels)
      - **F1** *GRAPH* — Select encoder to display
      - **F3** *RESET* — Reset the starred encoder (*)
    - **F2** *ANALOG* — Test of analog inputs and outputs (ADC/DAC)
      - **F3** *RESET* — Reset of the min/max values
      - **F4** *INDEX* — Select analog I/O number
      - **F5** - — Change the value
      - **F6** + — Change the value
    - **F3** *DIGITAL* — Test of digital inputs and outputs
      - **F3** *OFF* — Set the selected output to off state
      - **F4** *ON* — Set the selected output to on state
      - **F5** - — Change the value
      - **F6** + — Change the value
    - **F4** *MEMORY* — Memory test
      - **F1** *EXTRAM* — External RAM test
        - **F1** *ADDRESS* — Address line test
        - **F2** *STRESS* — Stress test (fast accesses)
      - **F2** *FRAM* — FRAM test
        - **F1** *ADDRESS* — Address line test
        - **F2** *STRESS* — Stress test (fast accesses)
        - **F4** *LOGRES* — Reset the logged message
        - **F5** *FSAVE* — FRAM binary content saving
      - **F5** *FLASH* — Internal memory test
        - **F1** *RD WR* — Execute read and write test
        - **F2** *FATCHK* — FAT test
        - **F3** *SECCHK* — Sector test (incorrect test)
        - **F4** *DUMP* — Internal memory content saving
        - **F6** *STRESS* — Stress test (fast accesses)
      - **F6** *SDCARD* — SD card test
        - **F1** *RD WR* — Execute read and write test
        - **F6** *STRESS* — Stress test (fast accesses)
    - **F5** *OTHER* — Other tests
      - **F1** *LED* — LED test
      - **F2** *BEEP* — Buzzer test
      - **F4** *SCREEN* — Display pixel test
      - **F5** *KEY* — Keyboard test
      - **F6** *DETECT* — Hardware configuration detection
    - **F6** *PLOT* — Graphical displaying of the motion
  - **F3** *LOGS* — Stored messages
    - **F1** *SYSTEM* — Operating system messages
    - **F2** *ERROR* — Error messages
    - **F3** *UNIPRG* — Uniprog messages (SIM, line number)
    - **F4** *USER* — User messages (Uniprog LOG instruction)
    - **F6** *WRFILE* — E700.LOG file generation
  - **F4** *CLOCK* — Clock display and using time
    - **F1** *SETUP* — System clock and date setting
      - **F5** - — Change the value
      - **F6** + — Change the value
  - **F5** *VER* — Operating system version
    - **F1** *EXIT* — Back to OTHER menu
  - **F5** *HELP* — Manufacture data
    - **F1** *EXIT* — Back to OTHER menu