

THE FACTORY AUTOMATION COMPANY

FANUC

# FANUC *i*HMI

Intelligent  
human machine  
interface



## Get the most from your machine

- brand-new touch panel interface for 30i-B series
- built for high-precision machining and minimum cycle times
- superior performance for higher productivity
- new unrivalled HMI concept for all machines
- consistent shop floor support for planning, machining and improvement

### Intuitive and extremely user-friendly

- brand-new touch panel interface
- flat design and ergonomically positioned keys
- easy setup of advanced control options

### Newly designed hardware

- 10.4" / 15" / 19" / 21.5" panel sizes
- improved key touch
- resistant to cutting fluids

### Seamless connectivity

- same dimensions as existing 30i-B series
- modular design and common mountings
- switches easily from old to new hardware

## FANUC iHMI Simple. Efficient. Intuitive.

FANUC iHMI has been designed to be extremely easy to use. Intuitive menu icons, high-visibility design and animated features take the head-scratching out of complex machining operations, making accessing even the most sophisticated programs and functionalities straightforward. Despite its more intuitive layout, users will nevertheless find that it provides a familiar FANUC user experience.

### CNC operation screen

#### Simple

Easy operation along process flow with integration of three screens:



#### Graphical

Intuitive icons and high-visibility design with animated features

- machining program list features icons
- graphic interface to set work coordinates
- easy-to-see load meters

#### Friendly

Help troubleshooting – one-stop problem-solving

- alarm occurs
- cause of alarm is shown
- advice on troubleshooting is displayed

### Various cycles

- turning
- milling
- measurement

### Tool manager

Uniform tool information management for machine

- up to 1000 tools with tool management option
- up to 1024 sets of tools with tool life management option
- up to 1000 tools when the CNC option is invalid
- tool catalogue data available for about 2000 tools
- VERICUT format (TLS file) CAM/simulation software is compatible with tool data

### Data logger

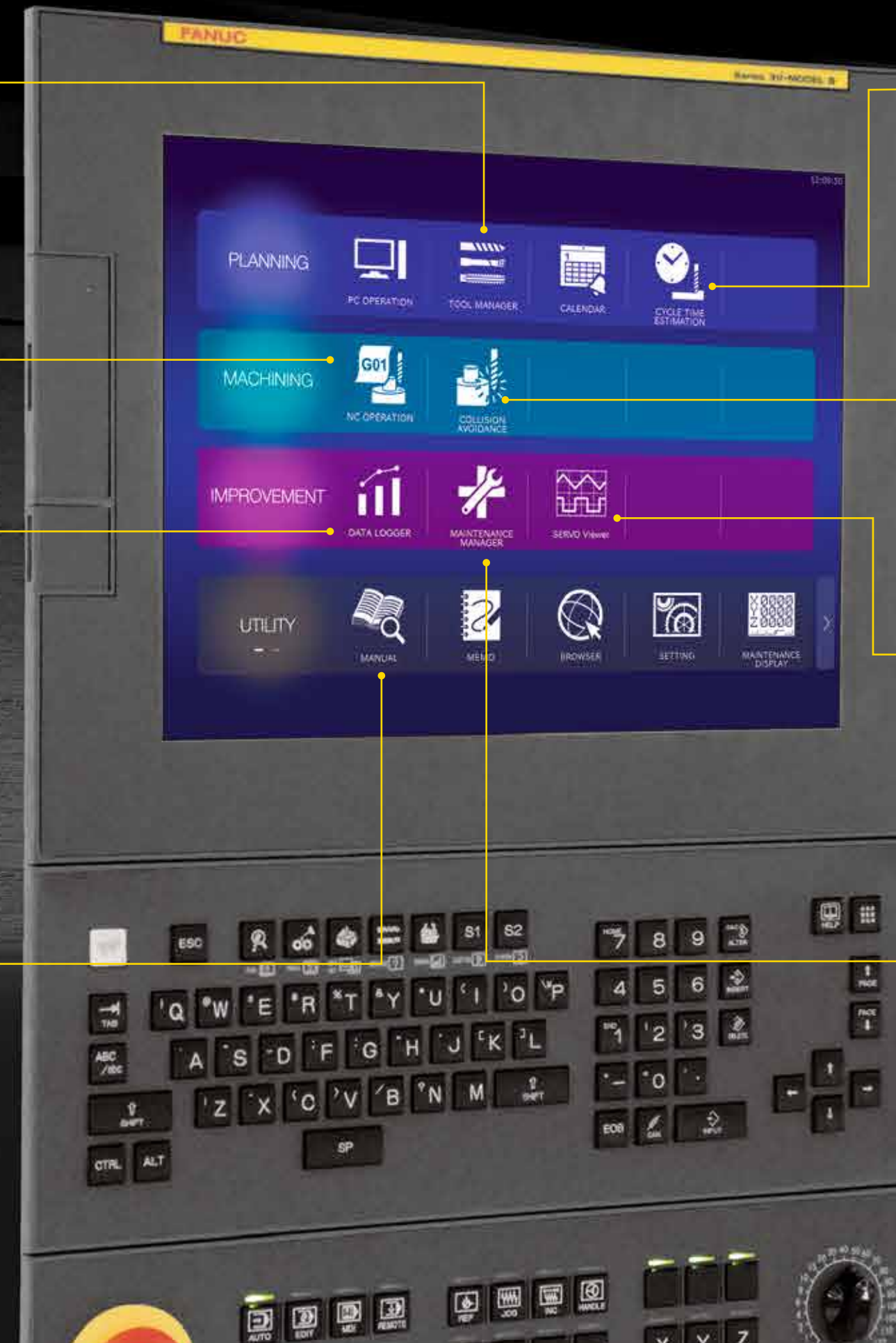
Investigate cause of problem while machining

- amount of data per second under 64 KB
- data types:
  - position of axes
  - CNC status
  - PMC data
  - macro variable data
  - information of servo/spindle
  - operational information
  - alarm information etc.

### Manual viewer

Always refer to the machine's manual

- add MTB's manuals and classify into an arbitrary group
- use multi-form file formats (HTML, TXT, PDF)
- display manuals according to NC language setting
- memory capacity for manuals is limited to 500 MB



### Cycle time estimation

Quickly estimate the execution time of an NC program

- high accuracy cycle time estimations
- all calculations consider real machine's acceleration/deceleration
- estimation for complex 5-axis machining programs
- decrease processing time by optimizing programs
- enhanced and reliable machine schedule planning
- Improve the utilization of your machines

### Machine collision avoidance

Model, prevent interference and add to CNC before machining

- collision status can be confirmed graphically
- forecast positions for safe, precise collision detection
- based on CGTech Co's CAS (Collision Avoidance Software)
- maximum forecast time up to 600 msec.
- create 3D models of the machine on a PC

### Servo viewer

Measure and display various kinds of data

- servo and spindle data, e.g. position, speed and torque
- PMC data
- CNC status information, e.g. program number, M/S/T codes
- analyze the axis movement and CNC operation timing
- optimize the CNC program to reduce cycle times
- monitor the machine's condition by periodical measurements

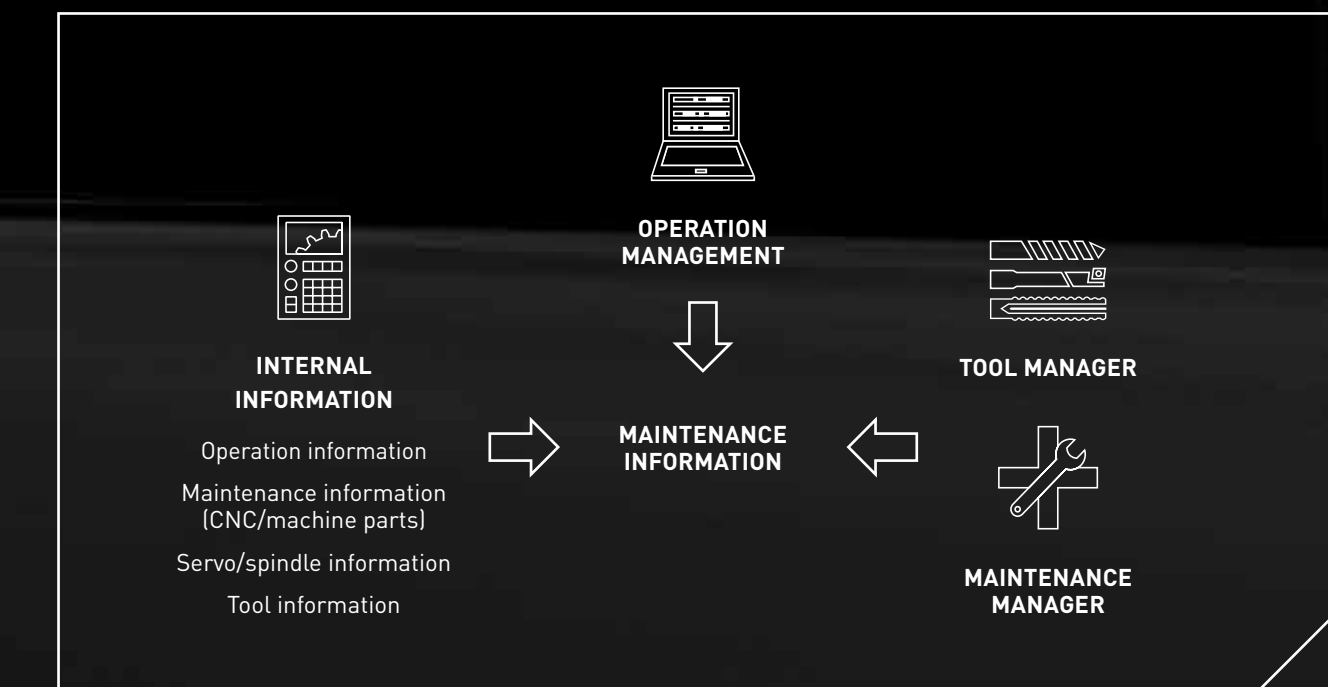
### Maintenance manager

Observe CNC and machine parts and set alert for exchange time

- specified by usage time, amount of movement, PMC counter etc.
- add a max. of 100 items as orig. monitoring item
- min. 1 sec monitoring period
- time savings of an hour or more
- easy to add original monitoring item and notification information

## MT-LINKi operation management software

MT-LINKi is a software suite that makes it easy for users to monitor machines and access real-time production data from the factory floor. Data, which is displayed graphically, can be viewed via Internet browser and used to improve maintainability and operational performance.



# One common servo and control platform – Infinite opportunities **THAT'S FANUC!**



## **FA**

CNCs,  
Servo Motors  
and Lasers

## **ROBOTS**

Industrial Robots,  
Accessories  
and Software

## **ROBOCUT**

CNC Wire-Cut  
Electric Discharge  
Machines

## **ROBODRILL**

Compact  
CNC Machining  
Centres

## **ROBOSHOT**

Electric CNC  
Injection Moulding  
Machines

## **IoT**

Industry 4.0  
solutions