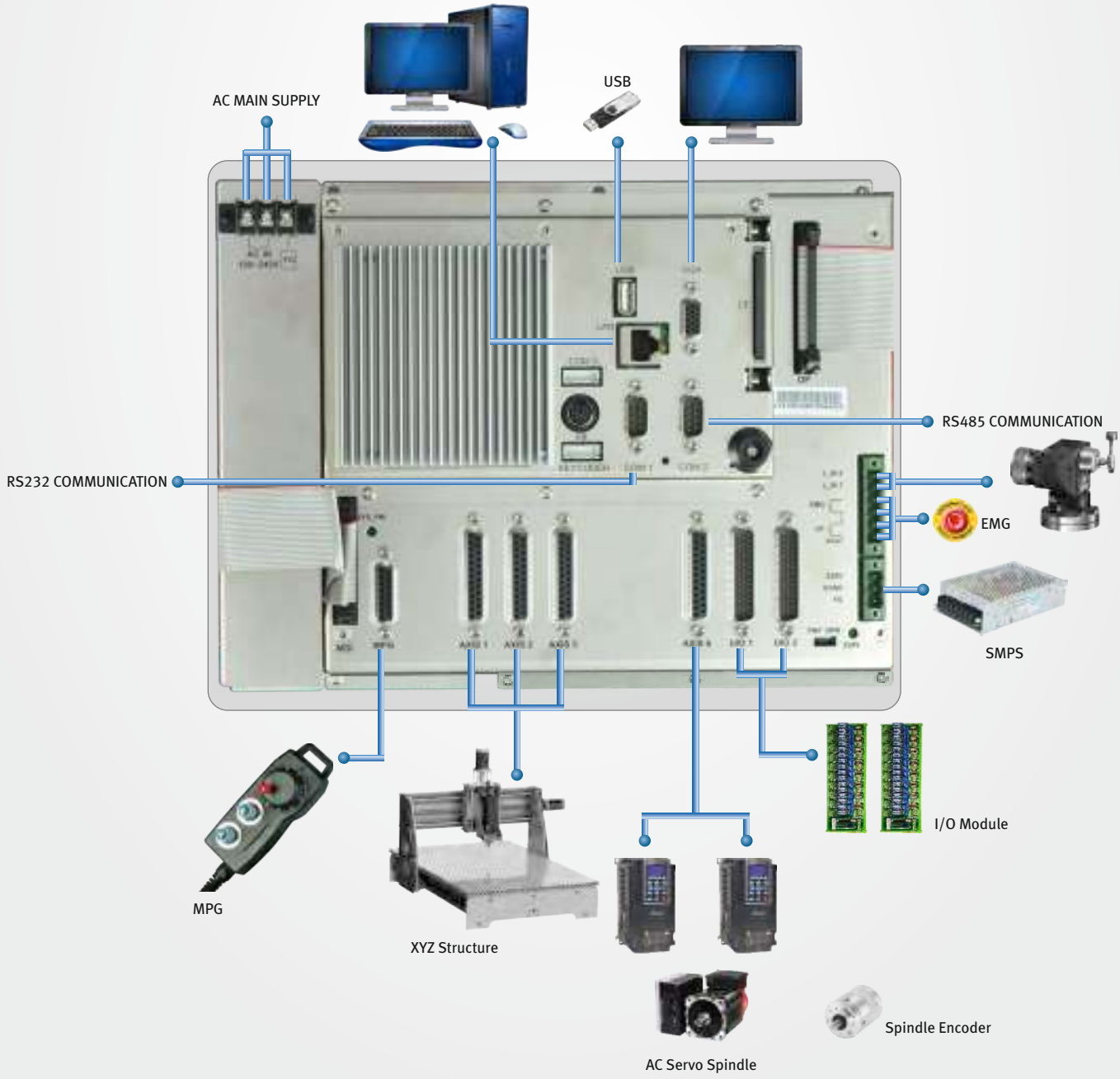
CNC MACHINE TURNING CONTROLLER

THE BEST SOLUTION PROVIDER IN THE ERA OF INDUSTRY 4.0

The Hardware is PC Based Fanless Design

- 32-bit, 800MHz Processor
- SDRAM : 256MB
- One unit for CNC, PLC, HMI & Communication functions
- No customer's assembly
- Optimized Performance
- High Quality & Reliability
- Easy Start-up



TURNING CONTROLLER

SPECIFICATIONS

		T3600A	T5800A
Hardware	Screen Size	7"	8"
	Pulse Command Axis Control port	3	4
	Fieldbus Type	-	-
	DA Output	1	1
	MPG Port	1	1
	Inbuilt Standard I/O	22/16	20/16
	Expendable I/O-Optional	128/128	128/128
	Front USB Port	•	•
	EtherNET Port	•	•
	Built-In MPG	-	•
	MOP	•	•
	LED Tool No. Display	•	-
	Memory	256MB	1GB
Control	Path Control(Max.)	1	1
	Servo Axis Control(Max.)	2	3
	Spindle Axis(MAX)	1	1
	Spindle / C axis	-	•
	Turn Mill	-	•
	WebAccess / Industry 4.0 / Could Monitoring	•	•

FILEDBUS CONTROLLER

- Support Industry 4.0
- Capable to control up to 6 channels and 32 axis
- Multiple machines can be controlled by single controller
- Cloud monitoring help to monitor production records & machine efficiency

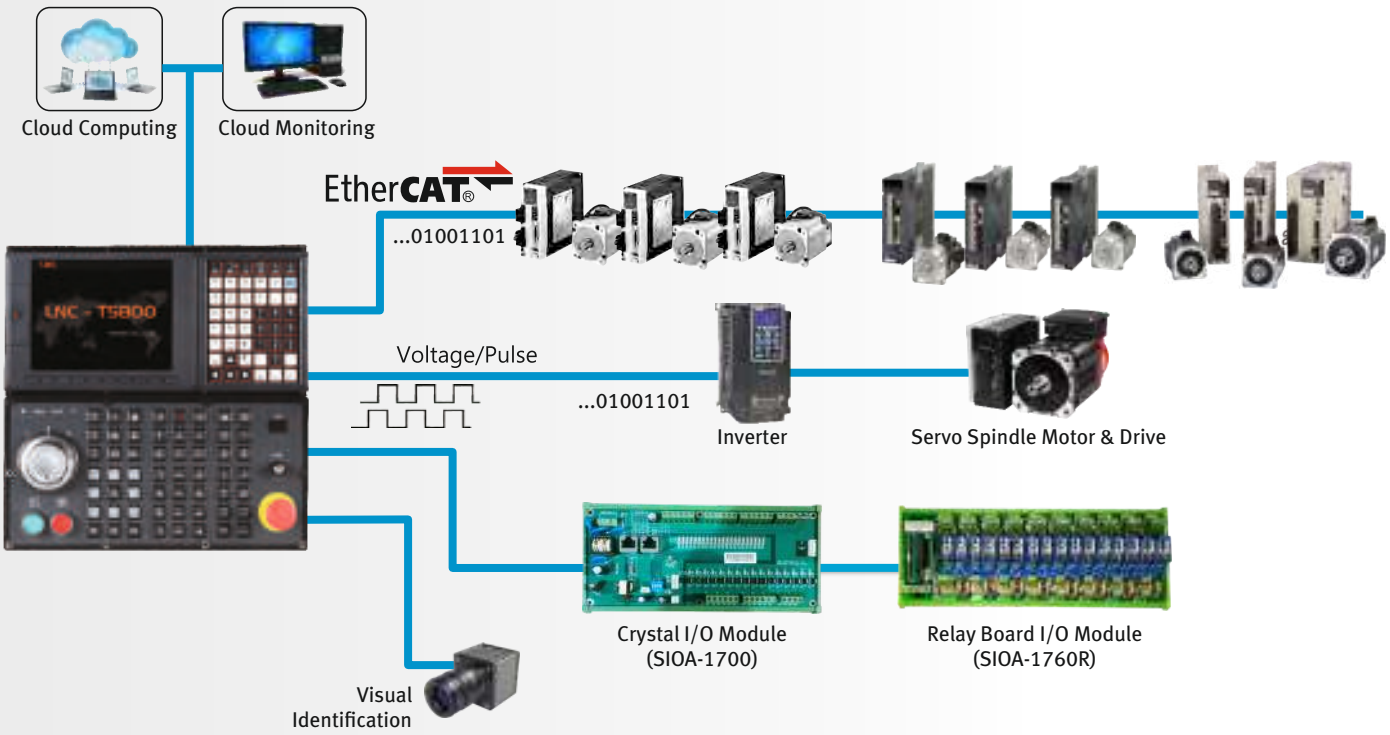
- Can enable to control dual path 2 channel
- Reduced Wiring and noise immunity
- Interpolation functions for high-speed, high-precision motion control to meet demanding performance
- Provide a variety of intelligent functions
- Chicklet keyboard

SPECIFICATIONS

		T3600D3	T5800D3 (Basic)	T5800D3 (Advance)
Hardware	Screen Size	7"	8.0"	8.0"
	Pulse Command Axis Control port	1	2	2
	Fieldbus Type	EtherCAT	EtherCAT	EtherCAT
	DA Output	1	2	2
	MPG Port	1	1	1
	Inbuilt Standard I/O	22/16	16/16	16/16
	Expendable I/O-Optional	128/128	128/128	128/128
	Front USB Port	•	•	•
	EtherNET Port	•	•	•
	Built-In MPG	-	•	•
	MOP	•	•	•
	LED Tool No. Display	•	•	•
	Memory	256MB	1GB	1GB
Control	Path Control(Max.)	1	1	2
	Servo Axis Control(Max.)	2	2	6
	Spindle Axis(MAX)	1	1	4
	Spindle / C axis	-	•	•
	Turn Mill	-	-	•
	WebAccess / Industry 4.0 / Could Monitoring	•	•	•

FILEDBUS CONTROLLER

FIELDBUS CONTROLLER HARDWARE



SOFTWARE

G-code Commands
- Circular threading
- Cylindrical interpolation
- Polar coordinate interpolation
- Elliptic interpolation
- Parabolic interpolation
- Contour cutting cycle (pocket commands)

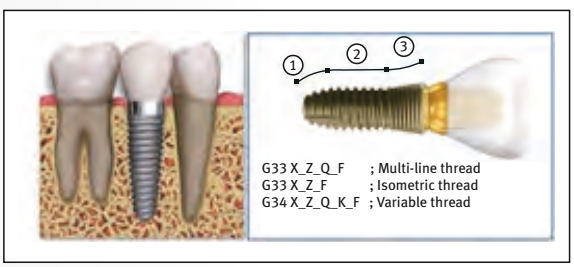
User-Friendly Interface
- Gather important information in a single page
- Dialog box for Alarm information
- Integrated MDI interface
- Multiple tool compensation function

Second Development Tool
- G-code / M-code Macros
- A wide range of programming functions such as For, WHILE, IF..ELSE, SELECT
- The number of macros are increased continuously
- OPEN HMI: QUI-Designer

User-friendly Start-up Software
- VM Ware
- Standard PC/Laptop is sufficient
- Window base PLC Programming Software
- FTP Maker for UP & Downloading
- FTP User for Floor shop for zDNC

HIGH PERFORMANCE CONTROLLER CORE

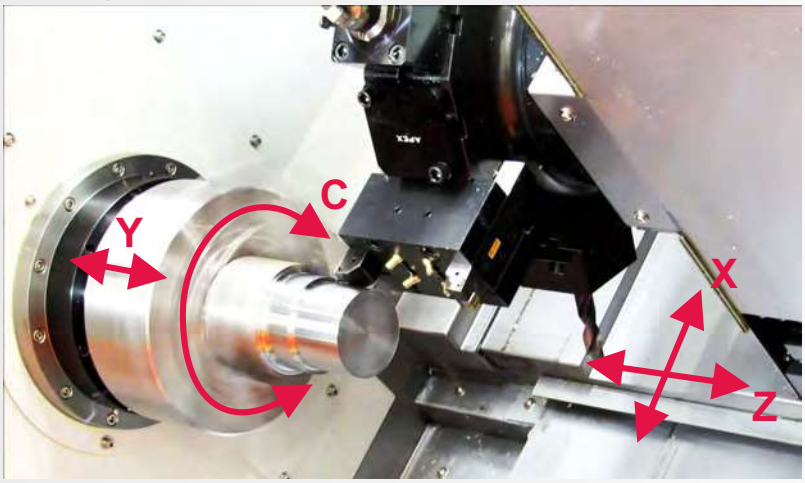
- Interpolation functions for high-speed, high-precision motion control
- Superposition control of servo axis functions
- Circular threading functions: can be used in a special processing work



Circular threading function has been used to manufacture artificial tooth root

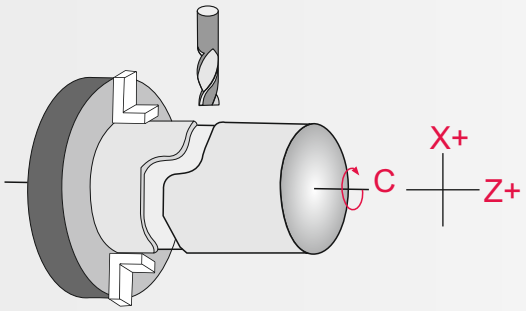
FEATURES

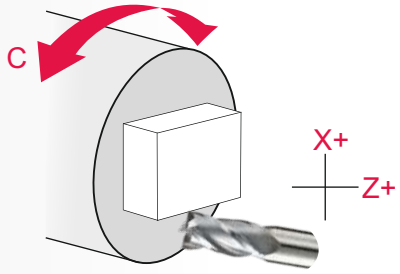
SPINDLE / C AXIS



POLAR & CYLINDRICAL INTERPOLATION

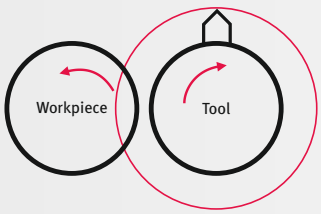
Convert Spindle to C Axis for milling operation in lathe System by M codes.
Cylindrical & Polar interpolation help to do outer diameter & face milling cutting by using X, C, Z coordinates. In lathe system.



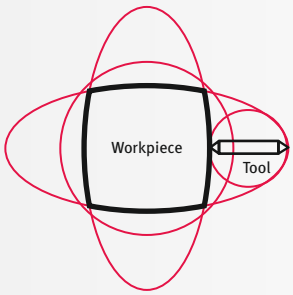


SYNCHRONIZE & HYBRID CONTROL

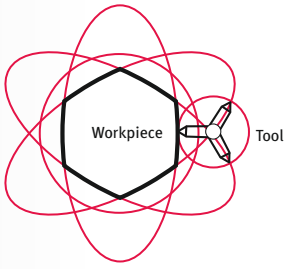
Synchronizing between Spindle Rotation & Cutting Tool



Dual blade Rectangular Cutting



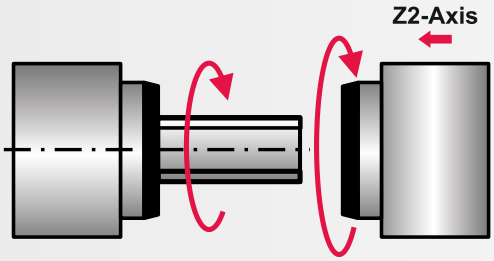
Triple blade Hexagon Cutting



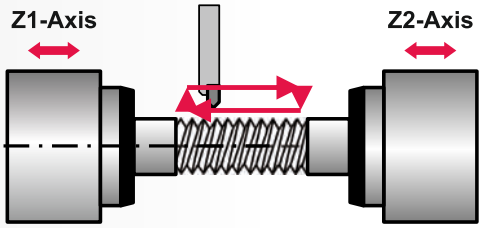
FEATURES

The function of Superposition control of servo axis can improve the processing efficiency

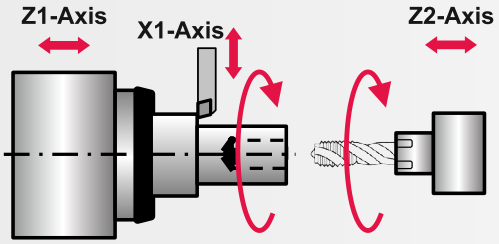
SPINDLE SYNCHRONIZATION



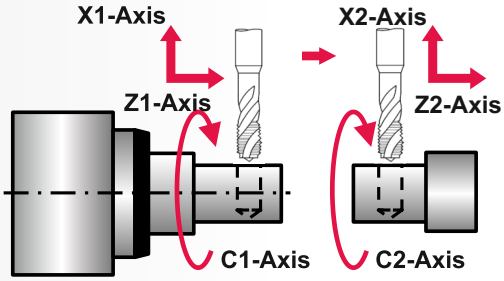
AXES SYNCHRONIZATION



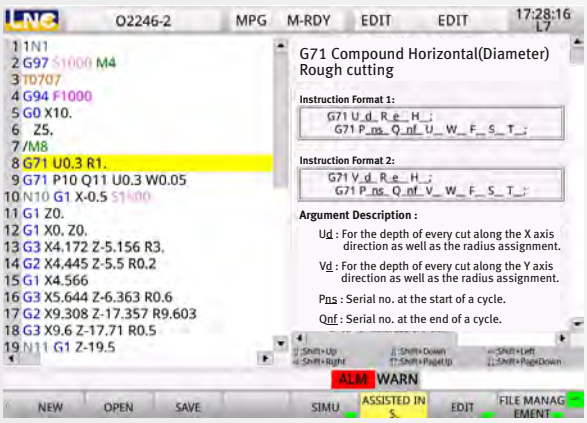
SUPERPOSITION CONTROL



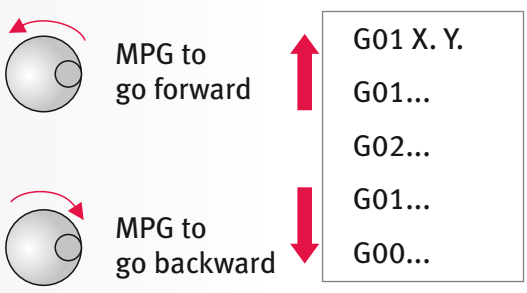
MIX CONTROL



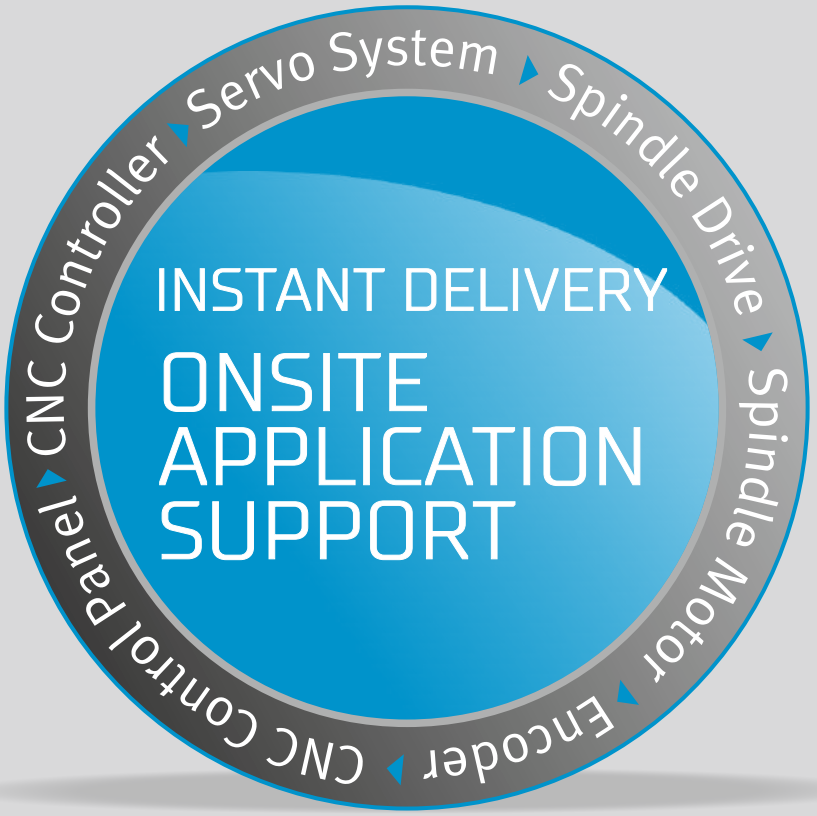
ON BOARD HELP FOR PART PROGRAMMING



RETRACE / MPG TEST (FWD/REV)



CNC PACKAGE SOLUTION



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Lubi Electronics

Sardar Patel Ring Road, Nr. Karai Gam Patia, Nana Chiloda,Dist. : Gandhinagar - 382 330. Gujarat, INDIA
Tel. : **+91 - 79 - 6674 5300** Fax : **+91 - 79 - 6674 5599** E-mail : **info@lubielectronics.com** Website : **www.lubielectronics.com**