



# Victor Taichung at Timtos 2023

6-11th March 2023  
(Nangang 1F, J-0617)

23-Dec-2022





# Victor Taichung at Timtos 2023

## ***Show Features***

- ***Automation (APC / Robot application)***
- ***Multi-tasking (incl. 5-axis)***
- ***Smart manufacturing (incl. IoT, Scada)***
- ***Energy saving and carbon reduction + ESG (Environment, Social, Governance)***

## ***Exhibits***

- ***VMT-X260\* with Siemens ONE control (5-axis)***
- ***Vturn-S20/40\* with gantry Robot***
- ***Vcenter-AX630 with 18 Pallets + 160 tools***

## ***Smart Factory Tour (on 8<sup>th</sup> March.)***

- ***Global Dealer Meeting + Welcome Party in Taichung***



# Victor Stand: J-0617

**VC-AX630 with  
18 pallets + 160 tools**

**VT-S20/40CM  
+ Gantry robot**

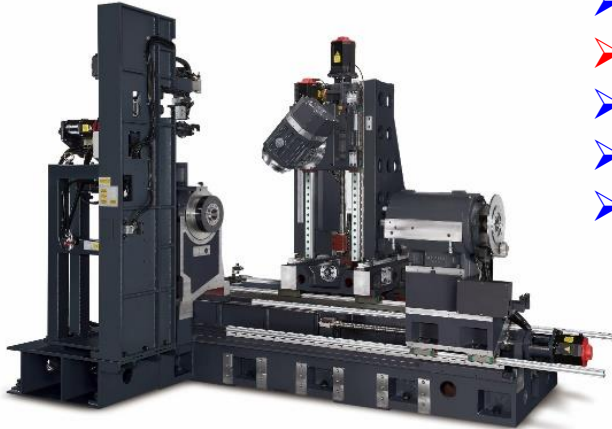


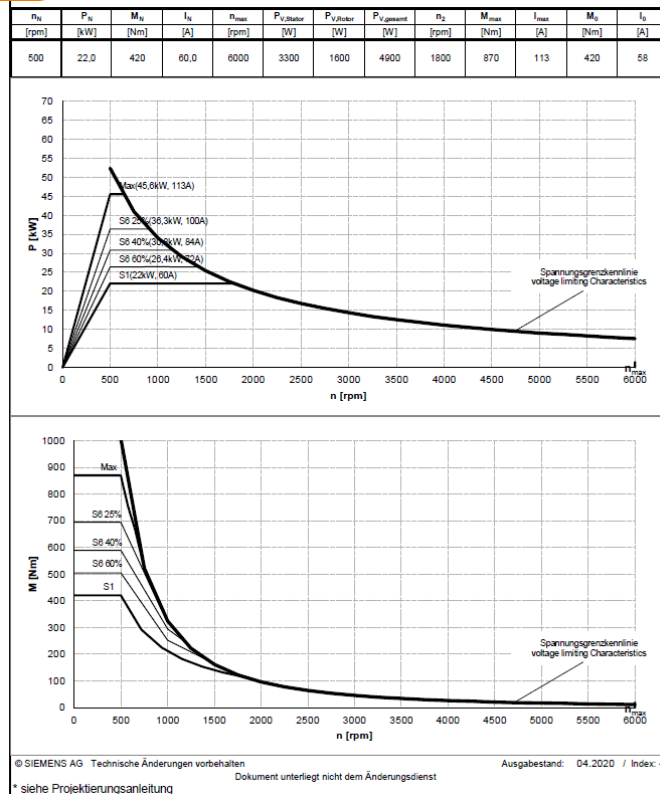
**Vmt-X260 with Siemens ONE control**



# VMT-X260 *with Siemens ONE control*

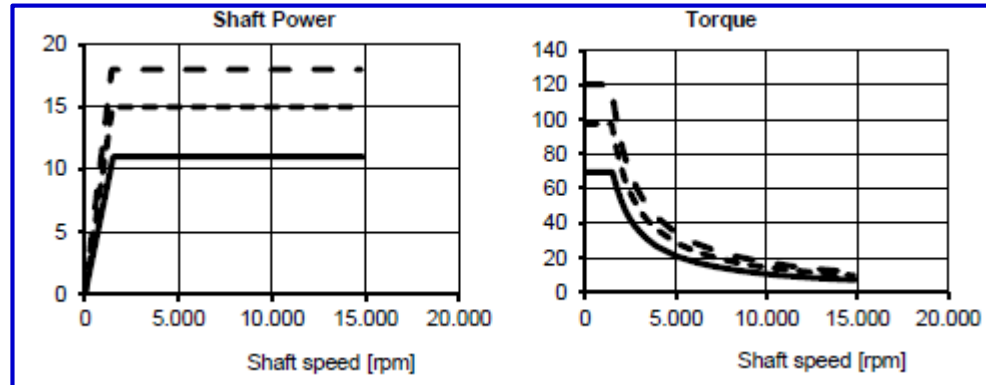
- **Siemens SINUMERIK ONE (19") + full 5-axis control**
- **Multi-Tasking machinery**
- **Roller geared B-axis swivel head**
- **Turing spindle 10" chuck (3500rpm) + 8" chuck (4200rpm)**
- **Milling spindle 12000rpm with HSK-T63 tooling**
- **ATC 40 tools**





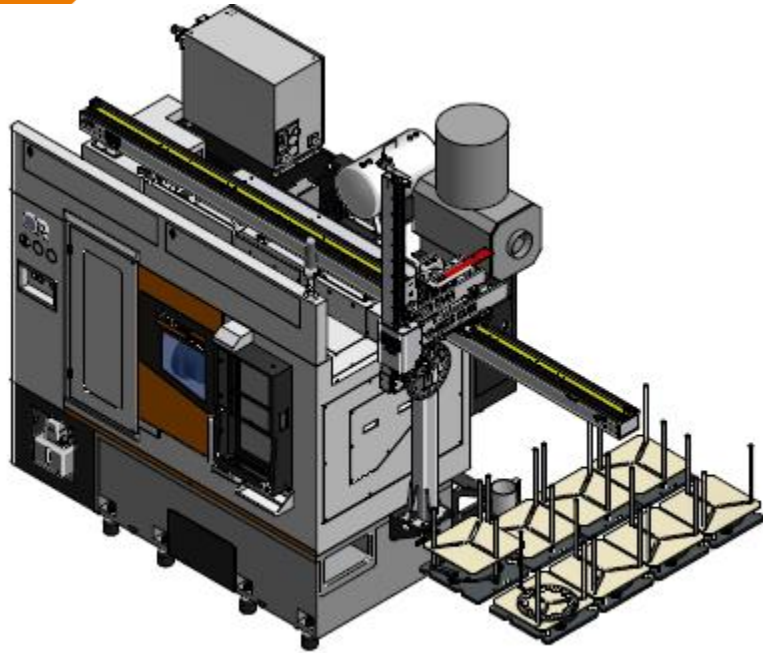
➤ **Turning spindle motor**  
**Siemens® 1FE2145-8CCxx-(22/26.4/36.3 kW)**

➤ **Milling spindle motor**  
**ATE® AC 200\_100\_8P (11/15/18 kW)**





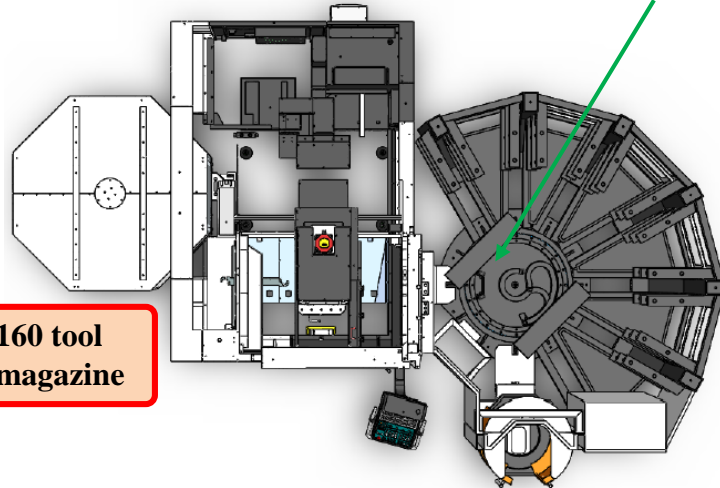
# Vturn-S20/40 with gantry robot



- *Compact cell (Gantry robot or EWR-03 robot)*
- *Programmable tailstock*
- *Rear chip disposal*

## Tray pickup mechanism

- PLC control instructions to automatically access material.
- Design the picking method according to the actual material.

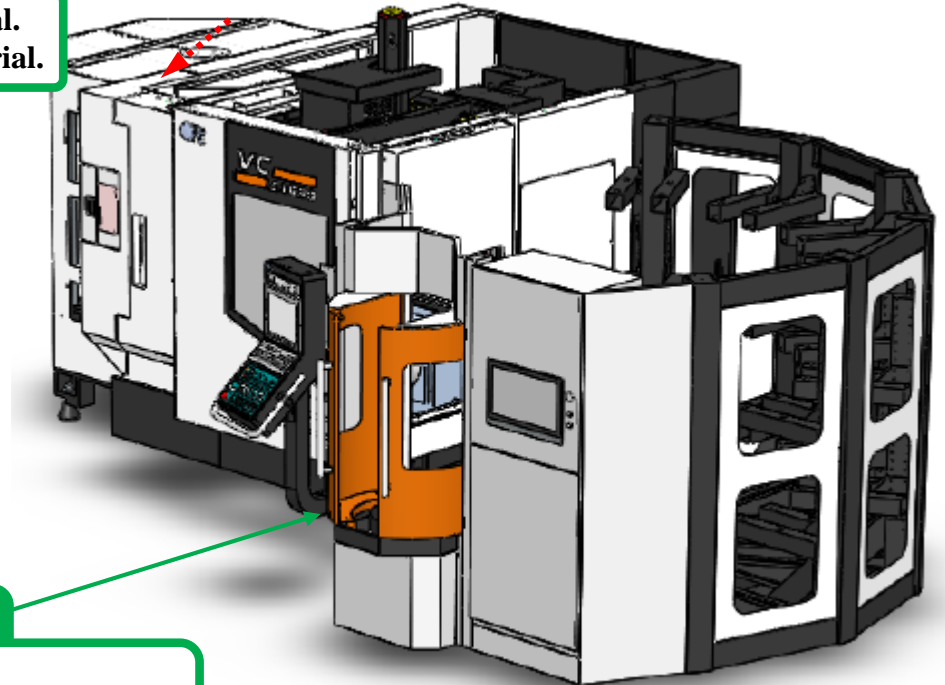


160 tool  
magazine

## Multi-Pallets controller

- Manage material in and out.
- Status and history of each storage location on the screen.
- The dispatch function can arrange follow-up automated production work.
- Through the serial connection with the host computer, the material information can be read and the material status can be returned.

➤ 4 floors, 160 tool magazine



- 18 pallets APC with HMI
- Pallet exchange time: 90 sec.
- SCHUNK NSR quick exchange fittings



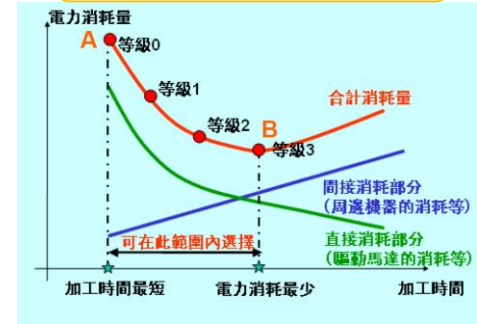
# ESG (Environment, Social, Governance)

## ESG Feature list

Ex. (VC-AX630)

## Efficiency data graph

	ECO power monitor	Equipment Power Analysis	Power Analysis	Spindle speed oscillation	Thermal compensation
VC-AX630	●	●	●	●	●
	ECO Level setting	Tool Load Monitoring	Axial Oscillation Cutting	Smart screw lubrication	
	●	●	●	●	



Source: FANUC and Hiwin

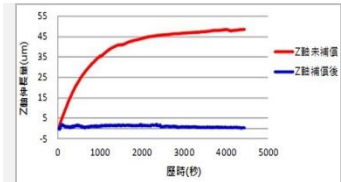
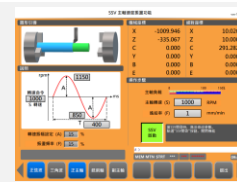
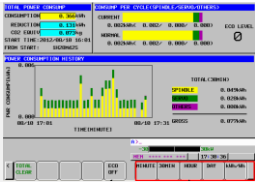
## ECO power monitor

## ECO power monitor

## ECO Power Analysis

## Spindle speed oscillation cutting

## Thermal compensation

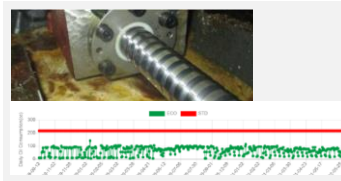
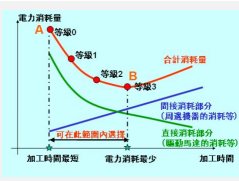
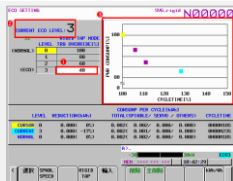


## ECO Level setting

## Tool Load Monitoring

## Axial Oscillation Cutting Technology

## Smart screw lubrication

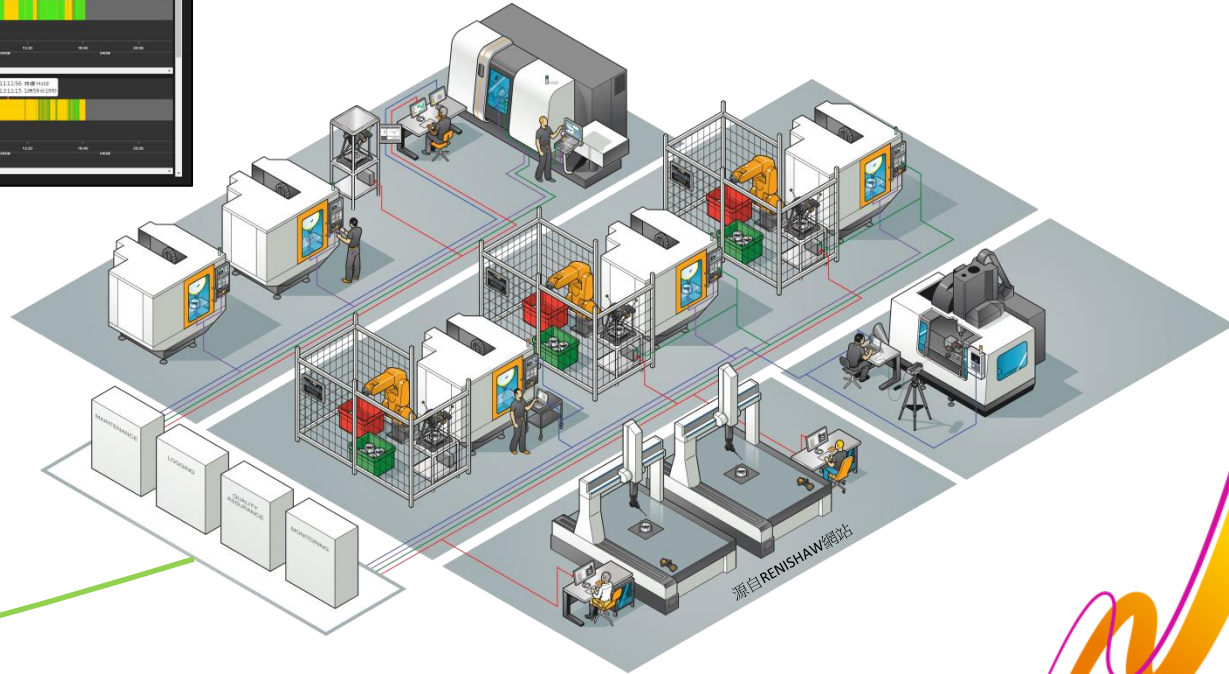






# Scada Web 1/3: Remote monitoring system

Collect/analyze data from the device on line for real-time status monitoring and analyzing.





Production line screen



Utilization rate



Tool life monitoring (optional)



Tool life view



Alarm record



Production report



Machine monitoring

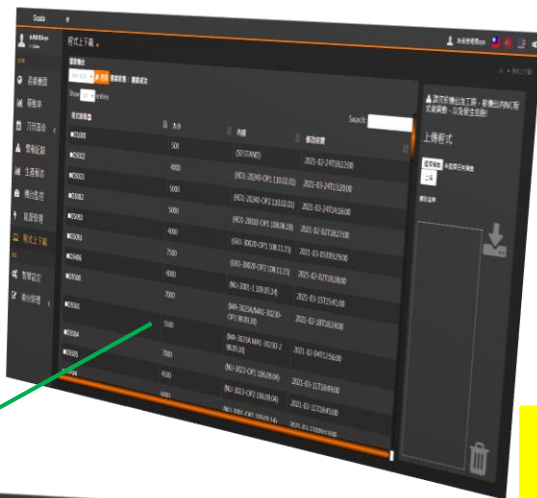


Energy management (opt.)



Process control (optional)





Program upload/download



Backstage management



*See you soon...*

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