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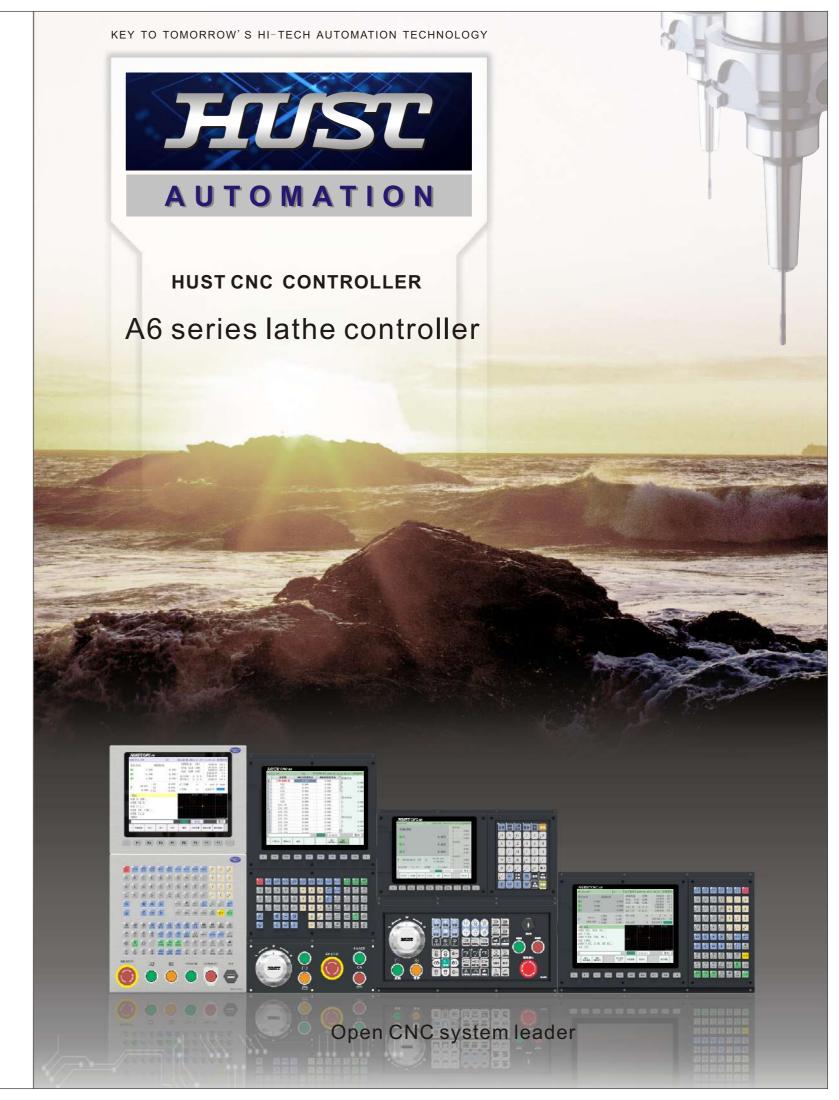
Website: www.hust-cnc.com





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Agent:



# **Company Profile**



Taiwan HUST automation inc. was established in 1982 and is one of the best manufacturers of automation controllers in Taiwan and is highly competitive and influential. In China, India, the United States, Turkey, Malaysia, Singapore, Iran, Mexico, etc., all countries have established a complete sales and service pipeline.

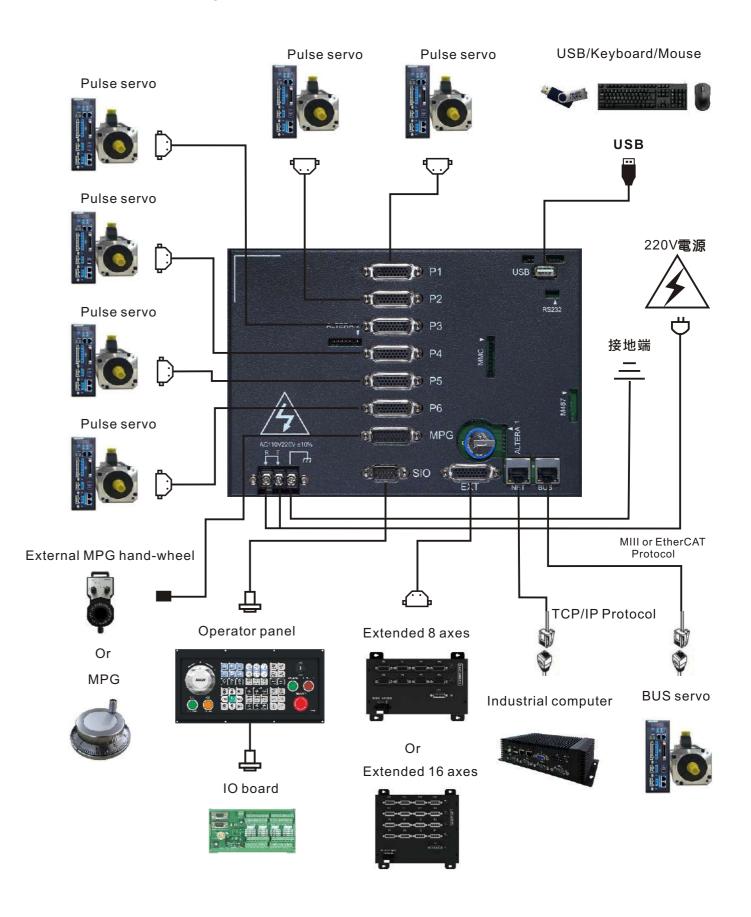
HUST controller has been focusing on the development and production of high-end CNC systems and motion controllers. Especially in the field of industrial automation, the fully open secondary development platform provided by HUST CNC makes the customization of motion controller products easier. HUST company looks to the future, providing customers with customized CNC and providing solutions. Industrial internet of Things solutions, MES system integration and other quality services and in Lathe/Mill, Spring machine, Woodworking machine, Winding machine, Binding machine, Slotting machine, Grinder, Spinning machine. Automation and other industries, accumulated a wealth of product experience and customer base, providing a comprehensive solution to help the industry upgrade.

In mainland China, after years of unremitting efforts, Guangzhou HUST Automation Control System Co., Ltd. was formally established in May 2010, Started a new journey in China, and gradually established a complete, efficient, capable, responsible and creative R&D and service team. Constantly challenge the peak of numerical control and automation technology, and constantly create automation products that are closer to the market and demand for customers.

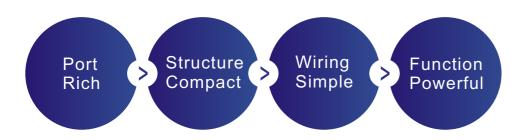
HUST company has served hundreds of corporate customers since its inception, including well-known brand customers including: Foxconn. Gree. Midea.vivo.Bern Optics. Shanghai Herby, etc.···In addition, in 2016, it was awarded the national "high-tech enterprise" certification, and was included in the cultivation of high-tech enterprises in Guangdong Province. HUST company is not only the status quo, it will continue to work hard to create a new future for automation.

Excellent innovation, cooperation and win-win, service-oriented is the business philosophy and the highest guiding principle that HUST company has established since its establishment. All along, we are committed to providing customers with high-performance motion control products and excellent quality products. It is our goal to make HUST CNC become the top brand in the world of automation control.

## Simple wiring

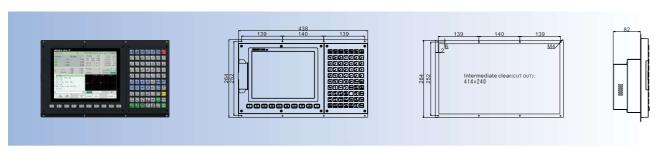


#### A6 Lathe controller

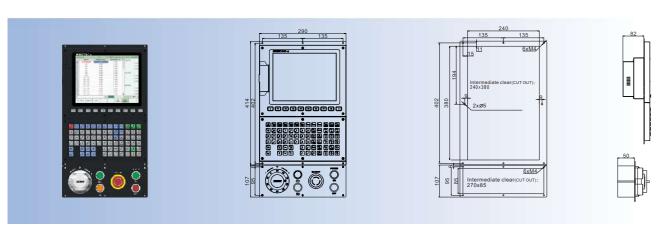


The A6 series lathe controller is based on the RT Linux intrusive CNC system platform, a new generation of digital controllers,64bit high speed and high precision contour control, high speed and high precision MECHATROLINK-III. EtherCAT bus Connection, support for bus axis and universal axis hybrid control: open customized design, international standard CNC programming specifications,Supports up to 32-axis 8-channel combination technology, supports robot module selection, and built-in dialog-assisted program editing. Command online. Remote assistance troubleshooting. Remote network system free upgrade for life.

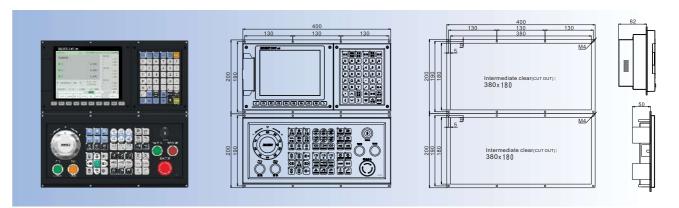
## A6KDL-ST compact



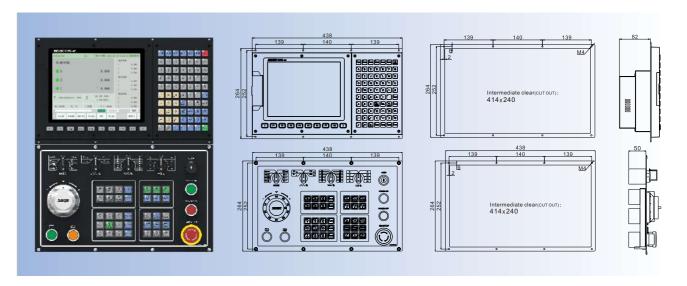
## A6KDLV-ST compact



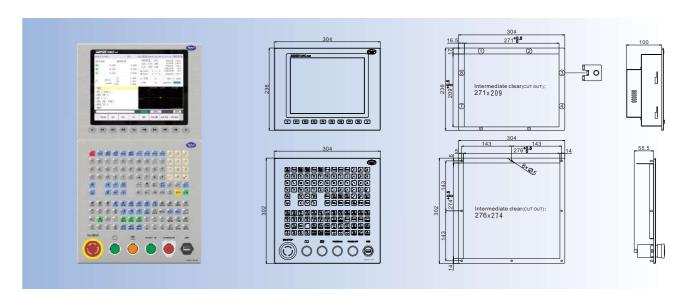
#### → A6KD-T Standard



#### → A6KDLV-T Middle



## → A6IKDLV-T High end



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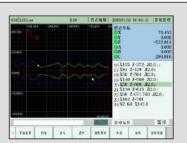
## Complete auxiliary operation function

Multi-channel program management > Axial load monitoring



Each channel can independently manage its own processing program, independently edit, the processing program and variables of each channel can be shared, and support multiple channels to synchronize waiting, the synchronization period is as short as 0.5ms

## Program path graphic display



The tool path simulation can distinguish whether the command trajectory before/after the difference compensation is consistent with the actual motion trajectory of the machine tool, and the correctness of the path of the machining program and the correctness of the code are detected in advance.

## → Motor oscilloscope

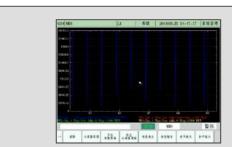


Real-time detection of motor position, speed and acceleration curve, such as acceleration and deceleration stability. Multi-axis difference catching synchronization performance. Follow-up per revolution feed. Follow error, etc., making debugging and troubleshooting problems more efficient and



Provides load monitoring function for each axis. Users can check the current load status of each axis according to the option settings. It can provide effective reference data for the judgment of the tool nose damage and the abnormal operation of the machine.

#### → Variable oscilloscope



The parameters set by the customer can be displayed in real time, and the detected variables change with time.

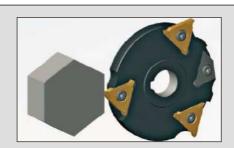
## MPG function



During the test process, the speed and direction of the machine can be controlled by the hand-wheel forward and backward. The retract function avoids the collision caused by programming errors. During the automatic running of the program, the machining can be paused by the hand-wheel interrupt function and then driven by the hand-wheel. After the drive is completed, restart the program, the program will continue processing from the interruption point. This function is often used for machining interruptions with long processing times, interrupting current machining, cleaning chip removal, measuring work-piece machining dimensional errors, etc.

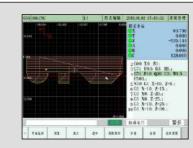
## Complete process solution

## Polygon processing



Multi-spindle can realize fast polygon cutting, automatic phase synchronization of the spindle, closed loop to ensure that the spindle phase is not lost, and can repeat polygon cutting after program interruption.

## Bump path machining



G71/G72 can realize bump path machining to automatically carry out roughing and finishing cycle, which greatly simplifies programming and makes operation more convenient.

## High-speed spindle butt material Thread quick retreat



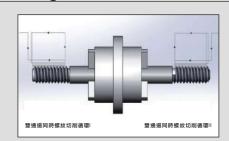
With the principle of relative static, if the spindle speeds are the same and the direction is the same, any two spindles are synchronized by command or feedback. In the synchronous state, one spindle and the other spindle perform the workpiece end-to-end matching and improve processing efficiency, At the same time, avoid machining accuracy errors caused by inaccurate manual clamping. Full-time closed loop synchronization ensures dynamic accuracy.

## Robot independent channel control

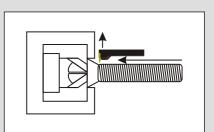


independently by using one channel. The CMC. G code can be used to edit the robot, which is more in line with the lathe operation mode. The process adjustment is more flexible and the protection is safer.

## Dual channel same spindle thread cutting function



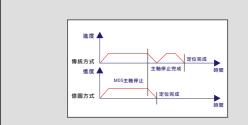
Two-channel and spindle thread cutting can realize that two channels share one spindle as the reference spindle for thread cutting.



In normal cases, when the tail is retracted, there will be problems with the last thread pitch or the tooth depth due to the problem of the acceleration and deceleration of the tapping axis. The thread quick retreat function can be used to lift the thread at the end of the tool tapping retreat and reduce the thread pitch when the thread processing is retracted. (Acceleration can be adjusted according to the actual bearing capacity of the machine)

#### Mature motion control

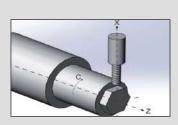
#### Spindle dynamic positioning



Traditional mode: the spindle rotates at a high speed and decelerates to stop, and then performs spindle positioning.

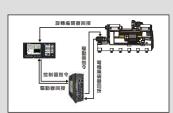
HUST mode: Direct positioning of the spindle during high-speed rotation deceleration and stop, the efficiency is higher.

#### Polar coordinate interpolation



The contour control of the linear axis and the rotary axis is realized by the Cartesian coordinate system editing instruction. For example: cam machining, workpiece outer diameter milling, irregular workpiece milling, etc.

#### Closed loop control function



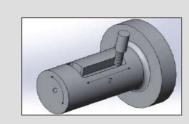
The same axial direction can receive two-way code feedback at the same time, and the machine can be fully closed-loop controlled to solve the problem of precision instability such as deformation of the machine's hot and cold machine, while ensuring safety and maintenance convenience. It can solve the problem of inaccurate indexing caused by partial error of C-axis drive or linear feed axis of lathe. Support bus digital speed control full closed loop, analog speed control full closed loop.

## High speed G31 detection



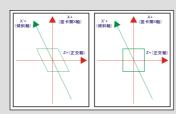
High-speed G31 function is mainly used in automatic compensation, tool setting and other occasions. The frequency response speed is up to 0KHZ, which provides an effective solution for high-speed detection function, greatly reducing the problem of low efficiency and low precision caused by the response speed.

#### Cylindrical interpolation



The amount of rotation of the rotary axis with the angle command is internally converted to the linear axis distance on the outer surface, which facilitates linear or circular interpolation with other axes, which greatly simplifies the programming of the cylindrical surface.

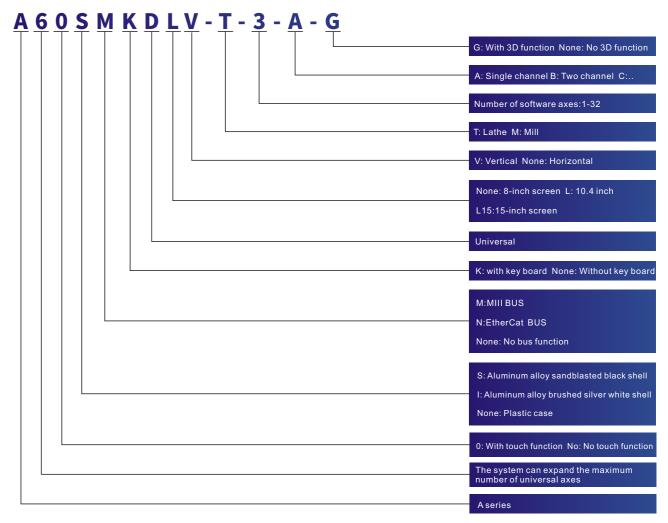
#### Tilt axis function



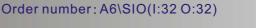
Due to the workbench or machine design requirements, the two axes of the machine are not perpendicular, but are cut or angled, which makes programming difficult. The system tilt axis coordinate system function is very good to solve this problem, can be programmed in the Cartesian coordinate system, and the program execution in the tilt axis coordinate system of the mechanism, The Cartesian coordinate system and the tilting axis coordinate system are calculated and converted internally by the system. The customer only needs to program according to the drawing, without considering the coordinate conversion of the tilting axis.

## Selection and general IO module

Model Description



## Accessories specifications





A6\SIO\I32O32\V4 Size: 158 x 86 x 46 (mm)

Input mode: NPN.PNP
Input Current: 10mA
Single point output maximum current: 1A
32 points output maximum current: 16A

#### Order number: A6\SSR(O:4)



AC input: maximum current 8A Factory fuse setting: 5A AC output: maximum current 4A

Size: 76 x 86 x 42(mm)

#### Order number: A6\SIO(I:16 O:16)



A6\SIO\I16O16\V4 Size: 100 x 86 x 46(mm)

Input mode: NPN.PNP
Input Current: 10mA
Single point output maximum current: 1A
16 points output maximum current: 16A



# A series lathe system specification list

Maximum suspert channel   3		NAME	A6KD-T	A6KDL-T	A6IKDLV-T	A6KDL-ST	A6KDLV-ST		
(single channel) 0 0 0 0 0 3 3 3 3 3 3 3 1 1 1 1 1 1 1 1		Maximum support channel	3	3	8	1	1		
Maximum number of filinked axes   6			6	6	6	3	3		
Maximum number of extended   18   32   32   NO   NO   NO		Maximum number of linked axes	6	6	6	3	3		
Display size   State		, ,	3	3	3	1	1		
Display size 8 1 10.4"  DAAD 8/8 group  Coperating system RT Linux  System  Specification  RAM 512MB  Program memory 4GB  Pre-fetch block number 1000b/s  Minimum control unit 0.00001mm  Maximum number of tool compensation groups  Transmission USB/RS232/RS485/LAN/WIFI  Bus function MECHATROLINK-IIII, EthercCAT BUS  I/O Standard: 16/16 Maximum expansion: 512 / 512  I/O Formaming command (G code)  Programming atandard Support  Macro programming standard Macro B  Background programming  Background programming  Support  Support  Program USB flash transfer  Program ustematic error detection  Program autematic error detection  Program inch function Support (optional)  Multi-channel  Function  Multi-channel  Function  Multi-channel  Function  At the same time with the spirolle threed culting  Asia coupling/exchange/mixing  Asia coupling/exchange/mixing  Robot independent channel control  Asia coupling/exchange/mixing  Asia coupling/exchange/mixing  No support Not support  Not suppo			18	32	32	NO	NO		
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Minimum control unit Maximum number of tool compensation groups Transmission USB/RS232/RS485/LAN/WIFI Bus function MECHATROLINK-III、EtherCAT BUS  VO Standard: 16/16 Maximum expansion: 512/512  I/O Standard: 16/16 Maximum expansion: 512/512  Support  Program ing command (G code) Follow international regulations Macro B  Background programming Support  Program dialogue Support  Program ulonatic error detection Program ulonatic error detection Program ulonatic error detection Support  Multi-channel function Support (optional) Not support Not support  Althe same timewith the spirile thread cutting Althe coupling/exchange/mixing Robot independent channel control Spinide (C) axis dynamic positioning Program in the path Support (optional) uses G code to plan the path Support (requires servo spinide)  Thread/happing rapid retraction Support  Thread/happing rapid retraction Support  Thread/happing rapid retraction Single block non-stop mode Closed loop control Speed control closed loop (AB phase feedback, SSI feedback)) Taper compensation Reverse backlash compensation Two-way screw error compensation Two-way screw error compensation Two-way screw error compensation Support		Program memory	4GB						
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Two-way screw error compensation  Support		Reverse backlash compensation	Support						
Two-way screw error compensation Support		Arc sharp corner compensation	Support						
Feedforward compensation Support		Two-way screw error compensation	Support						
		Feedforward compensation	Support						

	NAME	A6KD-T	A6KDL-T	A6IKDLV-T	A6KDL-ST	A6KDLV-ST			
	Custom boot screen			Support					
	Custom M code	Support							
	Custom G code	Support							
	Bus axis mixed with universal axis	Support							
	IO redefinition function	Support							
	Tilting axis processing	Support							
	Inclined plane processing	Support							
Accessibility	DHC processing	Support							
	Scaling	Support							
	Acceleration/ deceleration type	Linear type (support JERK). S type. Exponential type							
	Tool life management	Time limit. Number limit management							
	Protective function	Safety door. Hardware limit. Software limit. Chuck is not clamped in detection. Tool change tool detection							
	MPG TEST	Support MPG TEST. MPG retreat function							
	MPG interrupt	Support							
	Restart function	Program breakpoints automatically find and restart. Custom restart							
	Multi-function hand wheel	Support							
	Graphical simulation	Graphic preview before program execution, dynamic drawing during program execution							
	Authority management	Parameters authority management							
	Perpetual calendar lock machine	Support							
	Axial load monitoring	Support							
	Oscilloscope function	Real-time monitoring of system commands and servo feedback pulse waveforms							
	Following error detection	Support							
	Spindle speed arrival detection	Support							
	Diversified tool magazine	Program backup. Parameter backup. Tool compensation backup							
	Parabolic interpolation	Support							
	Elliptical interpolation	Support							
	Cylindrical interpolation	Support							
	Angle following synchronization	Supports 3rd axis to real-time tracking of any 2 axis profile of the 2D plane							
Cutting	3D circular interpolation	Support for spatial spherical interpolation in any 3 axis Cartesian coordinate system							
function	Polygon cutting (flying tool)	Support	Support	Support	Support	Support			
	Polar coordinate interpolation			Support					
	Tapping	G84/G88	G84/G88	G84/G88	Support center hole tapping	Support cente hole tapping			
	Thread cutting	Support thread cutting canned cycle, Multi-head thread, Arc thread, Oblique thread, Variable pitch and other cutting							