

The dispensing system and application

Overseas Sales Department
2015.09.25

Dispensing system mainly for structured Cartesian coordinates of the machine, showing two axis plane or triaxiality space of single point, straight line and arc trajectory processing, glue gun rotation axis and four single point, linear and circular trajectory processing, or the product of independently rotating angle. The other axis and single point, line, arc track processing.

1

Product system

2

Function contrast

3




TV5600

4

Application examples



1、Product system

Model / appearance	Hardware platform	Function
 <p>TP3540</p>	<p>TP3540 Touch (5.6 Screen) 4 axis 32 Input/16 Output</p>	<p>1.Single / double position, Space linear / Circular arc t curve, radius compensatorajjectory,Spacen 2.Serial RS232 communication</p>
 <p>TV5500DJ</p>	<p>TV5500-B03+8848 TV5500-B08+8848 Hand box : B and W Screen 4 Axis 34 Input/18 Output</p>	<p>Ditto</p>
 <p>TV5600DJ</p>	<p>Hand box : Color TV5600+8830 3 Axis , 25 Input/8 Output TV5600+8848 4Axis , 34 Input/18 Output TV5600+8860 6Axis , 86 Input/40 Output</p>	<p>1.Single position, space linear / circular arc trajectory, space curve, radius compensation,bottom automatic fillet. 2.Serial RS232 Communications、TCP/IP(modbus) Communcations 3.lua script</p>

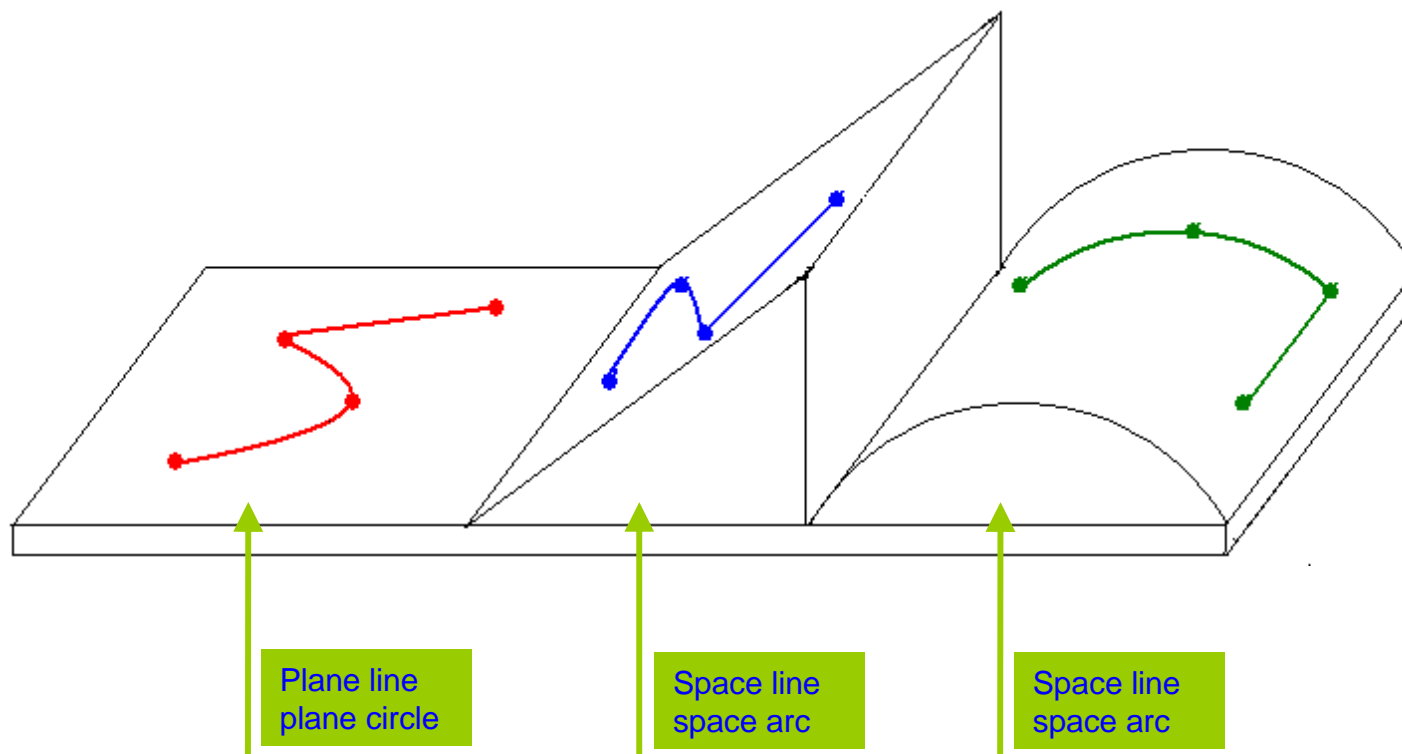
2、Function Contrast

Function	TP3340DJ	TP3540DJ	TV5300DJ TV5500DJ	TV5600
Acceleration	Pulse unit	mm/sec <u>Fixed acceleration</u>	Take time as a unit <u>According to the speed of the different acceleration will be changed</u>	mm/sec <u>Fixed acceleration</u>
Velocity smoothing (automatic fillet)	NO	NO <u>Need hand box</u>	NO <u>AUTO by hand box</u>	YES <u>Simply set the rounding error range</u>
Single point time、Processing speed	YES	YES	YES	YES
Lag gue	NO	YES	YES	YES
Advance off adhesive	YES	YES	YES	YES
Advan glue	NO	NO	NO	YES
Space arc	NO	YES	YES	YES
Badius compensation	NO	YES	NO	YES

2015.9.28

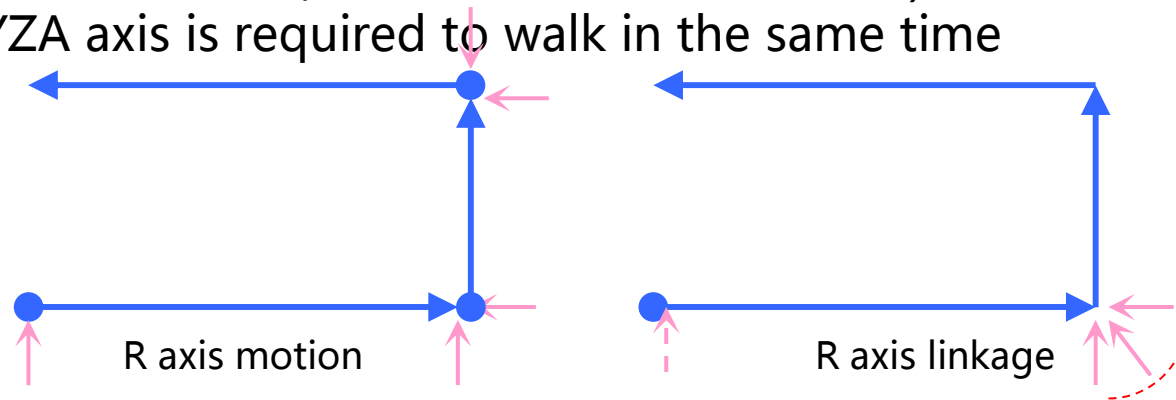
1

Plane line、 plane circle、 space line、 space arc、 spline crve :

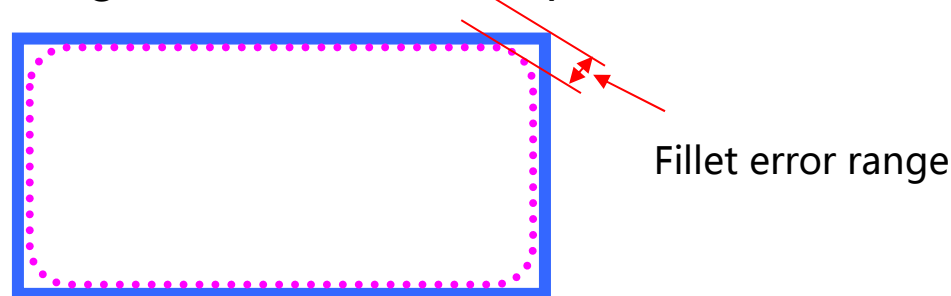


Radius compensation :

- Fourth axis rotation axis, glue gun inclined installation.
- The needle is't in the center of rotation (manual rotation of the R axis at this time,the needle has a XY offset)
- The XYZA axis is required to walk in the same time

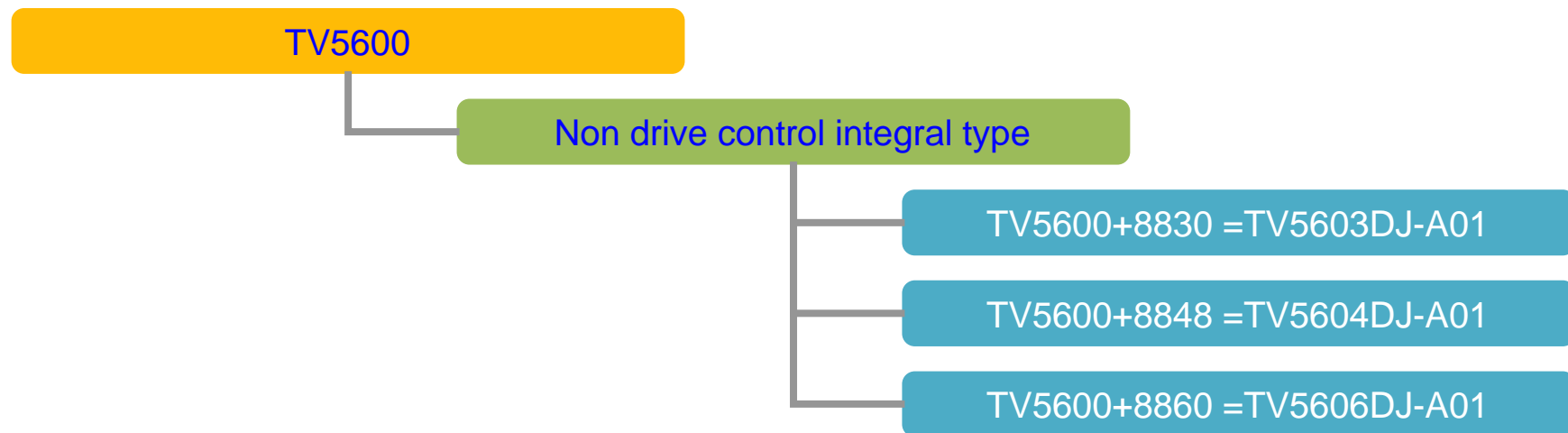


Automatic fillet : setting the fillet error file parameters can be realized



3、TV5600 Series products

TV5600 series dispensing control system is by TV5600 handheld box +based on OMC system offline motion control card(a series of OMC all functions and TV5600 senior editor)



TV5600 series dispensing control system is by TV5600 handheld box + based on OMC system offline motion control card (can be ADT-8848), between the two through Modbus communication connection, compared to the TV5500DJ optimized operation and the motion control of interface, the operation is more simple, movement more smooth.

Product size	Controllor	Hand box	Axis	Input	Output
TV5604DJ-A01	 8848		4	34	18

1. Hardware characteristic

Hardware index :

- Controllable axis : 2-6 axis
- Max pulse frequency : 2MHz
- Encoder : TV5603DJ-A01 NO , TV5604DJ-A01 NO , TV5606DJ-A01 YES ,
- Pulse output : 5V Differential output , Output model : Pulse+direction or Pulse+Pulse
- Cache interpolation function : YES
- Communication : RS232 communication module , U disk function , usb communication、 Network port.
- Handheld box screen pixels : 480X272 pixels , color
- Handheld box 128M , offline card 128M storage space




IO :

- Digital input : All optocoupler , Input Voltage : 12-24V
- Digital output : All optocoupler , NPN open collector optocoupler 5-24VDC , rated current 0.5A single maximum current up to 1A.

2. Software characteristic

- 2-4 axis interpolation, support space, space, space ellipse, spline curve.
- The speed of the algorithm is based on the speed of the algorithm, and the speed of the automatic arc corner is the same as the turning point.
- Supports standard ASCII Modbus, RTU Modbus and TCP Modbus protocol
- Supports Lua scripting capabilities for non - standard processes
- Support for the empty move, straight, oval, spline curve, file calls, such as rich processing instructions, as well as open type of user defined instruction (instruction specific action customers can write their own)
- Rotation radius compensation
- Import PLT files and G code files by computer.
- Graphics preview and real-time dynamic display of the processing track。
- Convenient friendly file teaching and editing functions, and provides a lot of change, array replication, graphics translation, graphics zoom, automatic fillet and other advanced editing functions, with common graphics library to facilitate customer calls.

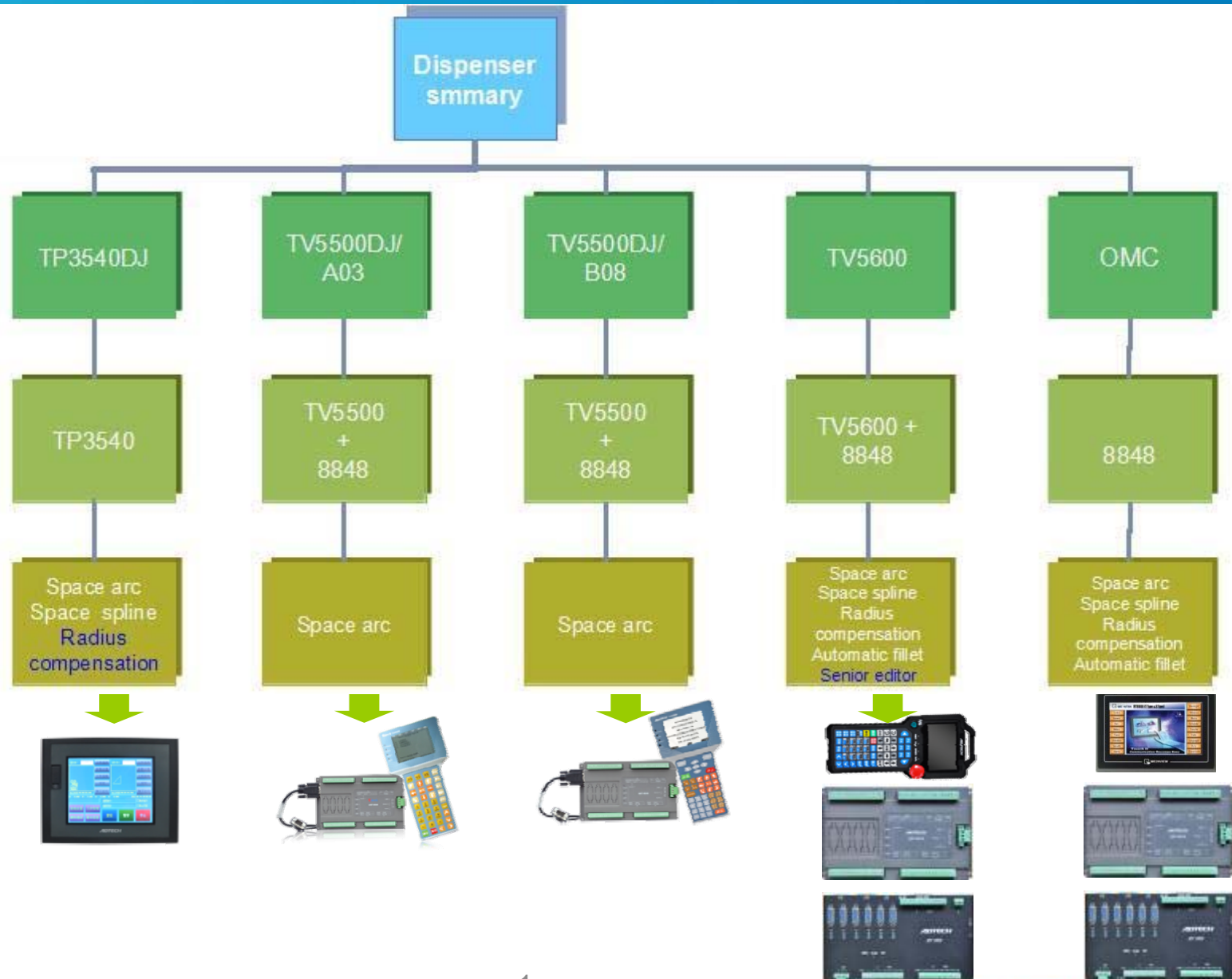
3. Accessories list

Accessory name	Size	Matching	Introduction	Appearance
Hand box	TV5600	Required	Interface	
Offline card	ADT-8848	Three choose one	Motion and IO control	
Data transmission line	L01-18215002	Required	Handheld cassette and offline card communication	

4. Application examples

- Cases 1. All of the dispensing controller
 - Three axis Cartesian coordinate system structure of the machine (plane or space single point, straight line, circular arc)
- Cases 2. TV5600+8848 Handheld box is shown to teach the +lua script custom functionality (the customer has the ability to program or the company to customize non-standard)
- Cases 3. weinview touch screen +8848 Touch screen display to teach (the customer can modify the interface) +lua script custom function (customer has a programming ability or the company custom non-standard.
- Cases 4. TV5600series lock screw machine
 - Holding the box to show the teaching + lock screw Lua script (the company is a non - standard, locking screws for each customer process are different, no standard items, all need to customize non-standard items)

Summary



ADTECH众为兴

The leader of domestic motion control solution provider