



Linear Motion Robot

# PRODUCT CATALOGUE

Dongguan YSC Automation Equipment Co., Ltd.

- FOCUS ON THE QUALITY

- LIBERATE MANPOWER

- IMPROVE EFFICIENCY



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# COMPANY PROFILE



Established in 2015, YSC automation equipment Co., Ltd. is a comprehensive modern high-tech enterprise with the integration of R&D, manufacture, sales and service. We have been focusing on in-depth research and development on automation technology for many years, specialized in designing and manufacturing precise linear guide system, electric cylinder and non-standard automation machine.

So far, our products are widely applied in biotech, semicon, glass, automobile, health care and pharmaceutical industry. In the spirit of "Quality first, service upmost", we have approximately 1,000 customers within China, and have been expanding sales into Eastern Asia, Middle East and Europe in recent years.

# PRODUCT CLASSIFICATION

## YTS Series



- Ball Screw Driven
- High Precision
- High Payload
- Repeatability  $\pm 0.01\text{mm}$

## YTB Series



- Belt Driven
- Long Stroke till 3 meters
- High Speed 2000mm/s
- Repeatability  $\pm 0.04\text{mm}$

## YCS/YCB Series



- Ball Screw / Belt Driven
- Fully Enclosed Structure
- Suitable for Dustless Environment

# PRODUCT CLASSIFICATION

## YC Series



- Electric Lifting Cylinder
- High Speed
- High Payload
- Applicable in Narrow Space
- Applicable for Face Mask Machine

## YTC Series



- Gear & Rack Driven
- High Speed
- Long Stroke till 5 meters
- Heavy Duty

## ENB Series



- Belt Driven
- European Standard
- Fully Enclosed Structure
- High Payload
- Long Stroke till 5 meters

# PRODUCT CLASSIFICATION

## KK Series



- Ball Screw Driven
- Compact Design
- Made of Steel
- High Rigidity

## YGS Series



- Ball Screw Driven
- Small Volume
- Self Lubricating Structure
- High Rigidity

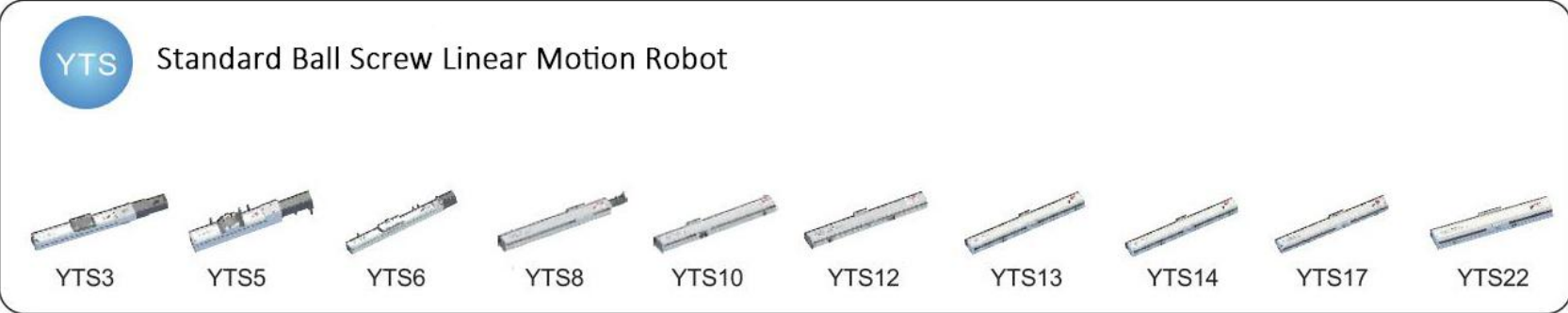
## YZX Series



- Electromagnetic Driven
- Long Stroke till 5 meters
- Various Options of carriage
- Repeatability  $\pm 0.002\text{mm}$

# PRODUCT SPECIFICATION

- Standard Semi-enclosed Structure
- Ball Screw Driven Linear Module



Type	YTS3	YTS5	YTS6	YTS8	YTS10	YTS12
Motor Output (w)	30	100	100	100	100	100
Repeatability (mm)	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
Ball screw lead (mm)	1/2	2/5/10/20	2/5/10/20	5/10/16/20	5/10/16/20	5/10/16/20/32
Max speed (mm)	50/100	100/250/500/1000	100/250/500/1000	250/500/800/1000	250/500/800/1000	250/500/750/1000/1600
Max payload (kg)	Horizontal	5/3	10/10/5/3	30/30/15/10	46/26/18/14	48/28/20/16
	vertical	3/1	7/3/1.5/-	15/10/5/2	10/7/5/3	12/8/5/3
Stroke (mm)	50~400	50~800	100~800	100~1050	100~1050	100~1050

Type	YTS13	YTS14		YTS17		YTS22
Motor Output (w)	200	200	400	400	750	750
Repeatability (mm)	±0.01	±0.01		±0.01		±0.01
Ball screw lead (mm)	5/10/16/20/32	5/10/16/20/32	5/10/16/20/32	5/10/20/32	5/10/20/32	5/10/25/32
Max speed (mm/s)	250/500/800/1000/1600	250/500/800/1000/1600	250/500/800/1000/1600	250/500/1000/2000	250/500/1000/2000	250/500/1250/2000
Max payload (kg)	Horizontal	70/47/30/24/13	95/75/44/35/15	105/100/70/35	120/105/75/40	130/115/85
	vertical	17/12/5/4/-	27/18/7/6/-	45/38/23/10	50/40/25/20	55/45/20
Stroke (mm)	100~1050	100~1050	100~1050	100~1250	100~1250	100~1250

### Ball Screw :

- TBI (From Taiwan)
- THK (From Japan)

### Guide Rail :

- TBI (From Taiwan)
- HIWIN (From Taiwan)
- THK (From Japan)
- ZCF (From China)

### Optional Accessories :

- Motor
- Reducer
- Limit Switch
- Assembly Part
- Drag Chain

# PRODUCT SPECIFICATION

- Dustless Fully Enclosed Structure
- Ball Screw Driven Linear Module\*



**YCS** Dustless Ball Screw Linear Motion Robot



YCS3



YCS5



YCS6



YCS10



YCS12



YCS14



YCS17



YCS22

Type	YCS3	YCS5	YCS6	YCS10	YCS12	
Motor Output (w)	30	50	100	100	200	
Repeatability (mm)	±0.01	±0.01	±0.01	±0.01	±0.01	
Ball screw lead (mm)	1/2	2/5/10/20	2/5/10/20	5/10/16/20/32	5/10/16/20/32	
Max speed (mm/s)	50/100	100/250/500/1000	100/250/500/1000	250/500/800/1000/1600	250/500/800/1000/1600	
Max payload (kg)	Horizontal	5/3	10/10/5/3	30/30/15/10	48/28/20/16	50/30/23/18/5
	vertical	3/1	7/3/1.5/1.5	15/10/5/-	12/8/5/3	13/9/6/4/3
Stroke (mm)	50~400	50~800	100~800	100~1050	100~1050	

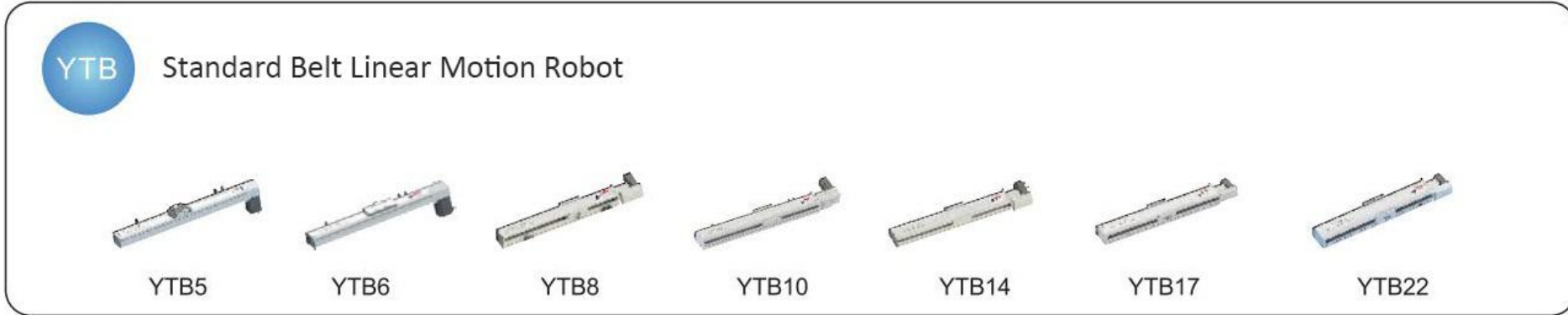
Type	YCS14		YCS17		YCS22	
Motor Output (w)	200	400	400	750	750	
Repeatability (mm)	±0.01	±0.01	±0.01		±0.01	
Ball screw lead (mm/s)	5/10/16/20/32	5/10/16/20/32	5/10/25/32	5/10/25/32	5/10/25/32	
Max speed (mm/s)	250/500/800/1000/1600	250/500/800/1000/1600	250/500/1000/2000	250/500/1000/2000	250/500/1250/2000	
Max payload (kg)	Horizontal	95/75/44/35/15	105/100/70	120/105/75/40	130/115/85	150/150/120/70
	vertical	27/18/7/6/-	45/38/23/10	50/40/25	55/45/20	55/45/20/15
Stroke (mm)	100~1050	100~1050	100~1250	100~1250	100~1500	

\* Optional Accessories Available



# PRODUCT SPECIFICATION

- Standard Semi-enclosed Structure
- Belt Driven Linear Module\*



Type	YTB5	YTB6	YTB8	YTB10	YTB14	YTB17	YTB22	
Motor Output (w)	100	100	100	100	200	400	750	
Repeatability (mm)	±0.04	±0.04	±0.04	±0.04	±0.04	±0.04	±0.04	
Belt lead (mm)	40	40	32	32	50	50	40	
Max speed (mm/s)	2000	2000	1600	1600	2500	2500	2000	
Max payload (kg)	Horizontal	3	5	10	10	25	45	85
	vertical	-	-	-	-	-	-	-
Stroke (mm)	50~800	100~800	100~2550	100~2550	100~3050	100~3050	100~3050	

\* Optional Accessories Available

# PRODUCT SPECIFICATION

- Dustless Fully Enclosed Structure
- Belt Driven Linear Module\*



**YCB** Dustless Belt Linear Motion Robot



YCB5



YCB6



YCB10



YCB14



YCB17



YCB22

Type		YCB5	YCB6	YCB10	YCB14	YCB17	YCB22
Motor Output (w)		100	100	100	200	400	750
Repeatability (mm)		±0.04	±0.04	±0.04	±0.04	±0.04	±0.04
Belt lead (mm)		40	40	32	40	40	40
Max speed (mm/s)		2000	2000	1600	2000	2000	2000
Max payload (kg)	Horizontal	3	5	10	25	45	85
	vertical	1	1	-	-	-	-
Stroke (mm)		50~800	100~800	100~2550	100~3050	100~3050	100~3050

\* Optional Accessories Available

# PRODUCT SPECIFICATION



## • Euro-standard Belt Driven Linear Actuator\*



Type	ENB65	ENB80
Motor Output (w)	400W	750W
Repeatability (mm)	±0.08	±0.08
Gearbox	1:3/1:5/1:7/1:10	1:3/1:5/1:7/1:10
Belt lead (mm)	130	200
Max speed (mm/s)	5000	5000
Max payload (kg)	Horizontal	60
	vertical	17
Stroke (mm)	100~5500	100~5500

\* Optional Accessories Available

## • Rod Type Lifting Cylinder\*



Type	YC50/YC50L/YC50T	YC60/YC60L/YC60T
Motor Output (w)	100W	400W
Repeatability (mm)	±0.08	±0.08
Gearbox	-	-
Ball screw lead (mm)	5/10	5/10/16/20
Max speed (mm/s)	500	1000
Max payload (kg)	Horizontal	30/15
	vertical	12/5
Stroke (mm)	50~500	50~700

\* Optional Accessories Available

- Rack and Pinion Linear Actuator\***

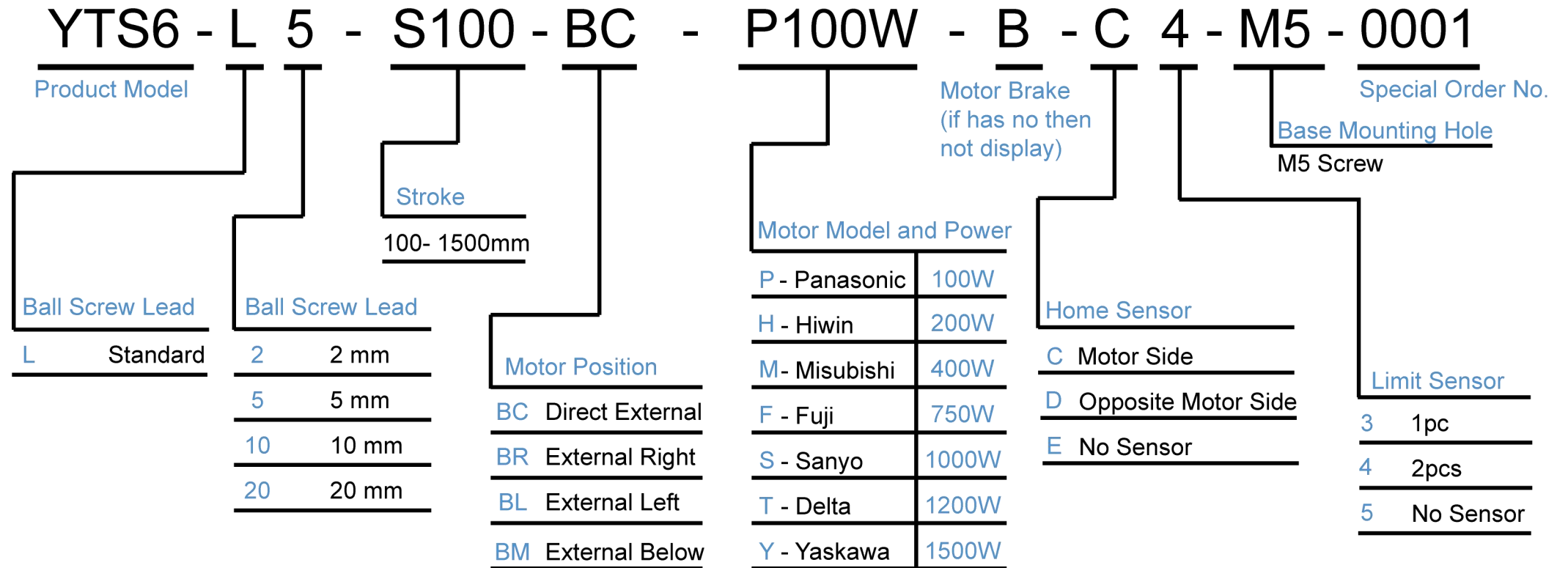


Type		YTC17	YTC22
Repeatability (mm)		±0.1	±0.1
Gear Lead (mm)		150	186.6
Load (kg)		160	200
Stroke Pitch (mm)		500-5000mm/50gap	500-5000mm/50gap
Gearbox Number (mm)		90	90
Home Sensor	External	EE-SX672 (NPN)	EE-SX672 (NPN)
	Built in	EE-SX674 (NPN)	EE-SX674 (NPN)
Gear Specification (M)		1.5	2
High rigidity Linear Guide (mm)		W20XH15.5	W23XH18

\* Optionl Accessories Availible

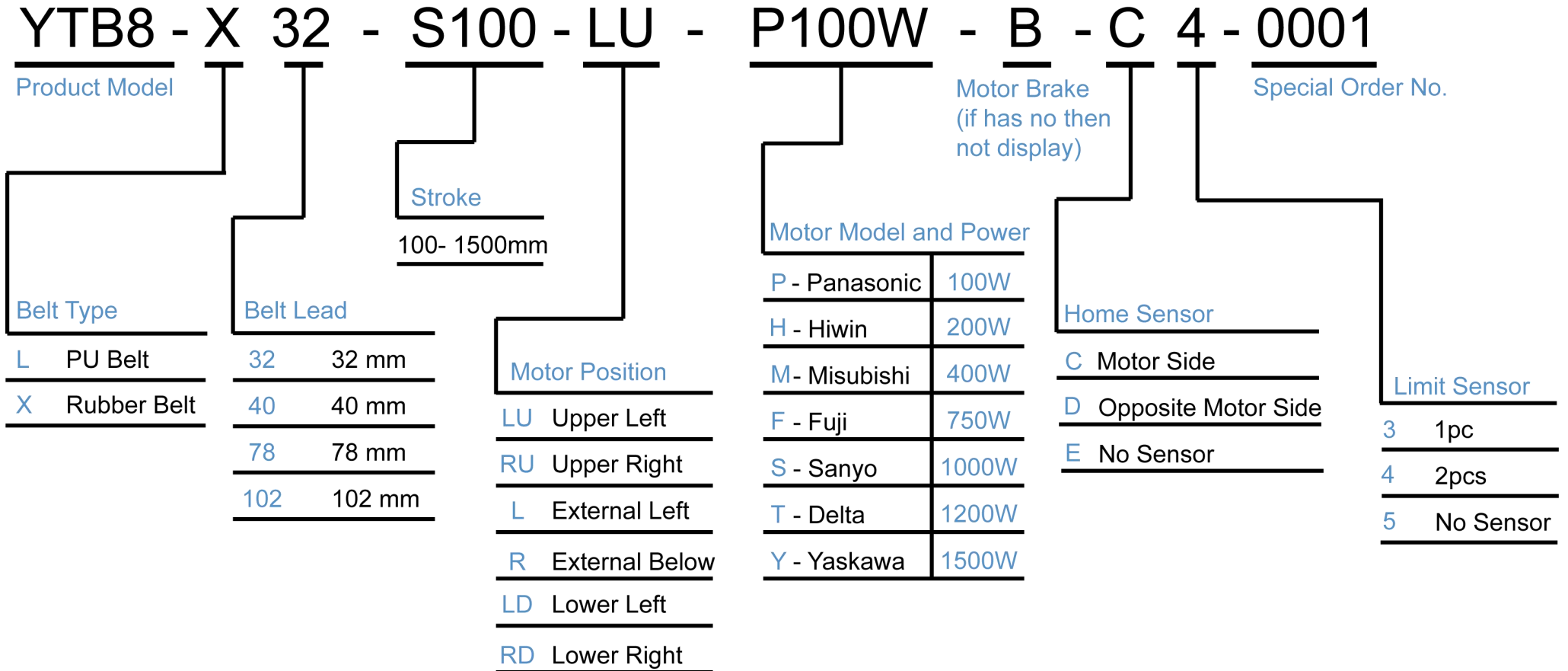
# MODEL INSTRUCTION

## • Ball Screw Linear Module Model Sample



# MODEL INSTRUCTION

## • Belt Linear Module Model Sample

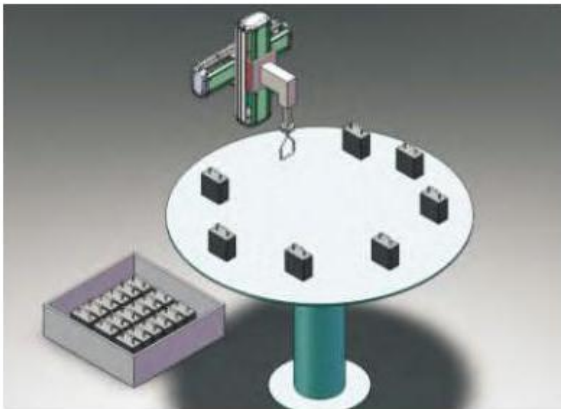


# PRODUCT APPLICATION



## Assembling device on disc machine

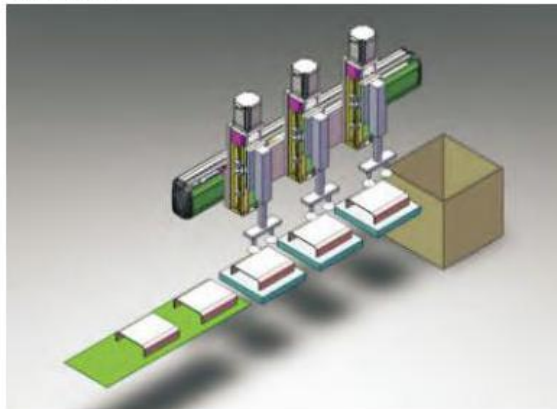
- Combine two single actuators to an X-Y system, then mount it onto the disc machine to do the components assembly.



- Use models  
YTS12/YTS13

## Assembling device for small components

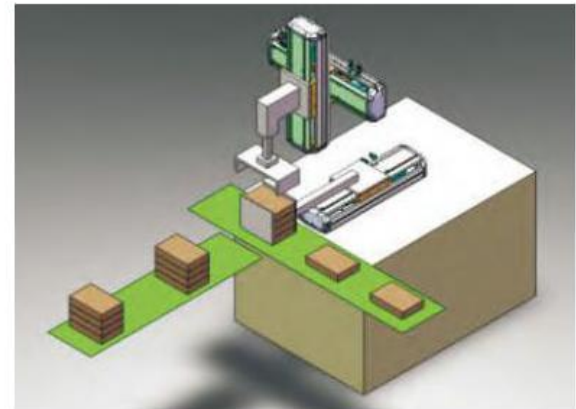
- Use the feature multi-positioning of the electric cylinder to drive the suckers and cylinders to do the assembly of small components



- Use models  
YTS17

## Conveyance device for assembly lines

- Combine two single actuators to an X-Y system and pick and place the items on the conveyor.



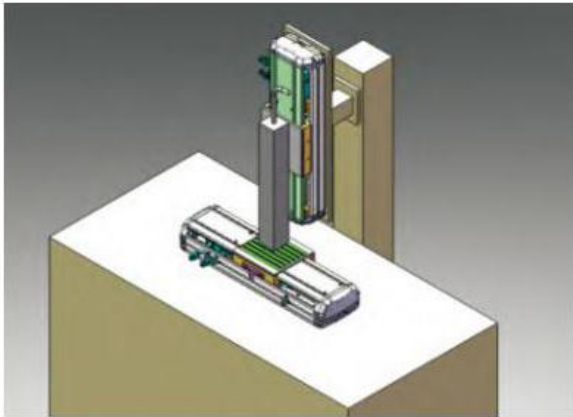
- Use models  
YTS22

# PRODUCT APPLICATION



## Spray-Printing Device for PCB Substrate Boards

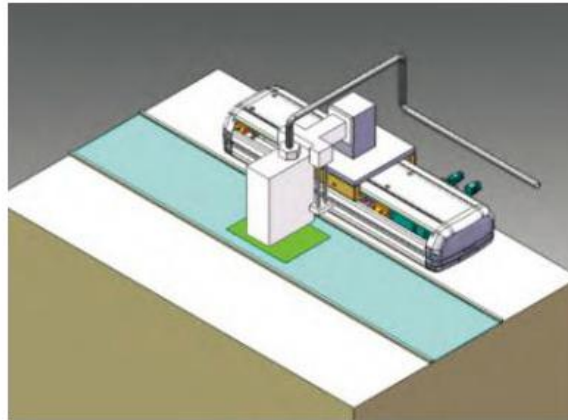
- Fix the substrate board onto the electric cylinder. Use the feature "equal-speed sliding" to execute the spray printing.



- Use models YTS12/YTS13

## Surface Cleaning Device for Circuit Boards

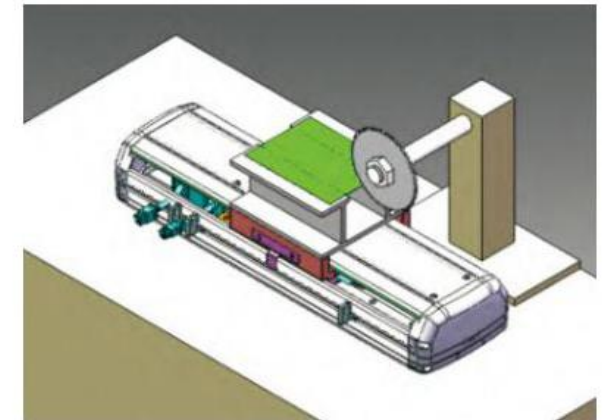
- Fixes the PLASMA onto the electric cylinder and move back cylinder and forth on the conveyor to do the surface cleaning for the circuit boards.



- Use models YTS17

## Cutting device for PCB printed circuit board

- Places the PCB board on the electric cylinder and do the cutting by using external cutting devices.



- Use models YTS22

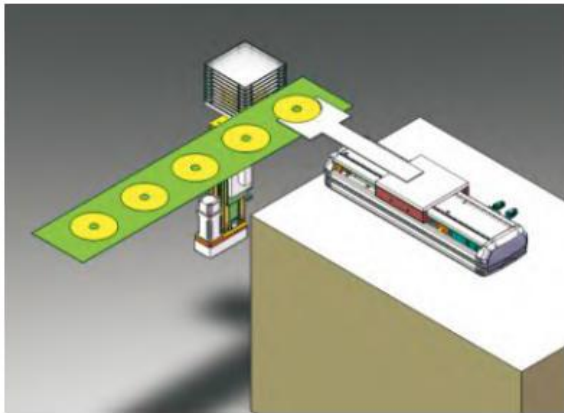


# PRODUCT APPLICATION



## Compact disc receiving device

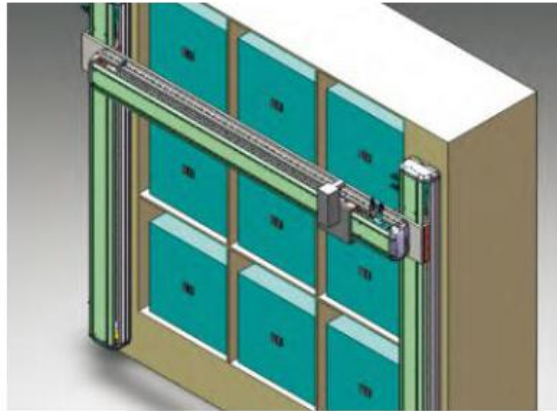
- Use the feature "multi-positioning" of electric cylinder to do loading and unloading of the disc box.



- Use models  
YTS12/YTS13

## Barcode scanning device

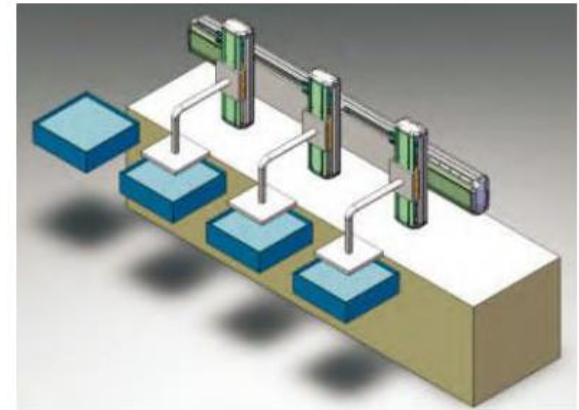
- Installs the X-Y multi-axis system to automatd warehouse to execute the barcode scanning.



- Use models  
YTS17

## Mobile Device for Surface Processing

- Mount the working piece on the electric cylinder and dip it into the solvents. Moving up and down, left and right at high speed to do the surface treatment processing.



- Use models  
YTS22

## OUR ADVANTAGES

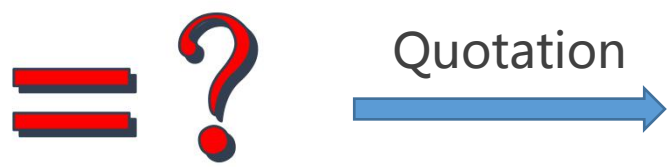


- a) YSC Linear Motion Module is designed compactly, with stylish appearance and able to operate stably.
- b) Our products are high quality with first-hand price as we have our own production factory.
- c) Product Quality Assurance. Each procedure has quality check and report will be generated for final product.
- d) Short Lead-time. Common models are in stock and uncommon models can be sent out in 7-10days.
- e) Customizable. Our Designer Team has great experience on non-standard product design, to match customers' requirements.
- f) Wide range of products. Customers have free selection of 30-220mm base width, 10-5500mm stroke, ball screw/ belt/ gear rack driven, fully/ semi- enclosed structure, etc.
- g) Complete information. 2D and 3D module for products are all prepared. For customized product, 3D model will be generated for you to confirm before production.

# CUSTOMER REQUIREMENT



- Single Axis / Multi Axis
- Module Stroke
- Module Width
- Module Payload
- Operating Speed
- Horizontal / Vertical Usage
- Position Repeatability
- Optional Accessories
- Servo / Stepper Motor
- Power Supply
- Motor Position



**Dongguan YSC Automation Equipment Co., Ltd.**  
**QUOTATION CONTRACT** No. YSC2020101901

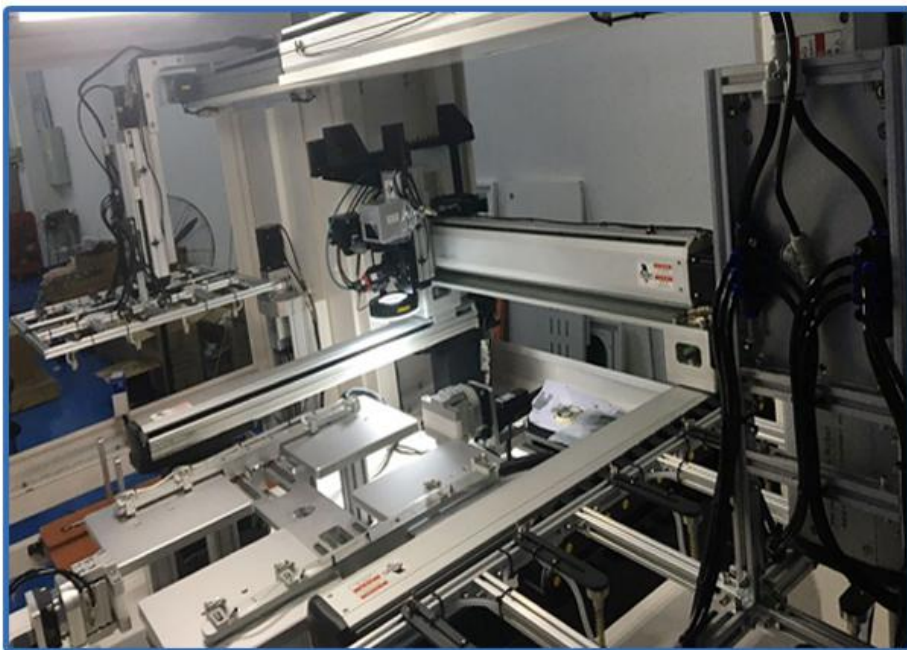
Demander :	Supplier :	Dongguan YSC Automation Equipment Co., Ltd.
Contact Person :	Contact Person :	Simon Hoang
Mobile :	Mobile :	+8613060990376
Tel :	Tel :	+86-0769-81338693
Email :	Email :	sales@ysc.cn
Address :	Address :	No.3, Hang Kang Road, Shi Long Town, Dongguan, Guangdong, China

No.	Product Name	Specification	Unit	Qty	Unit Price	Amount	Remarks
1	YTB14	Belt driven, 200mm stroke, Hiwin guide rail with prebuilt motion system set	set	1	xx	xx	required payload: 22kg speed: 300mm/s
2	YTB14	Belt driven, 300mm stroke, Hiwin guide rail with prebuilt motion system set	set	1	xx	xx	
3	Motor	57 stepper motor with brake	set	2	xx	xx	
4	Reducer	1:2 planetary reducer	set	2	xx	xx	
<b>Total</b>						xxx	

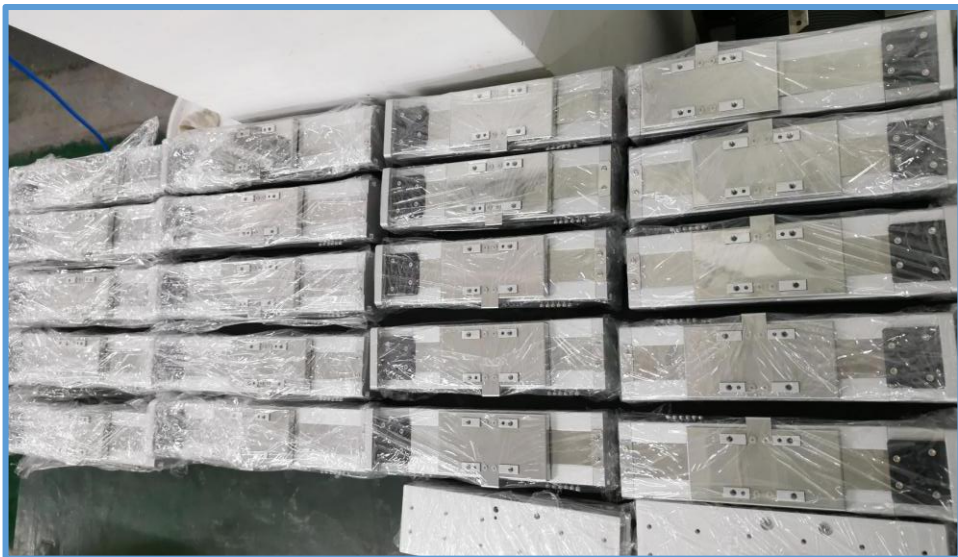
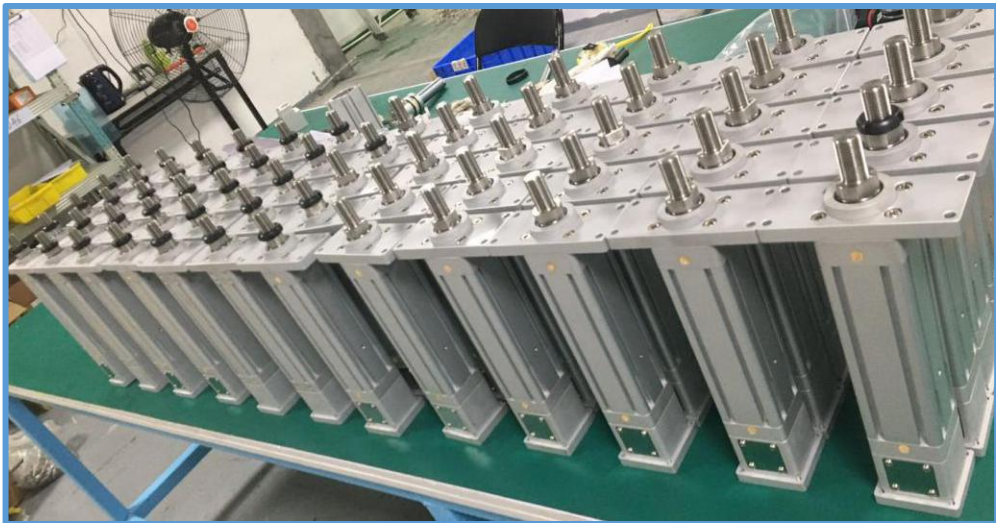
- Terms
- 1.Payment: Alibaba Trade Assurance, T/T, Western Union
  - 2.Terms of trade: FOB
  - 3.Delivery date: Send out goods in 10 days after receiving full payment
  - 4.Acceptance Standard: Production and acceptance according to the drawings contract confirmed by both parties.
  - 5.Packaging: Carton or wooden case
  - 6.Shipment: Supplier handle freight forwarding and demander pays for the shipment

Demander:		Supplier:	
Invoice Title:		Company Name:	Dongguan YSC Automation Equipment Co., Ltd.
Tax Number:		Tax Number:	91441900MA4U7AX02R
A/C Number:		A/C Number:	769901014210658
Tel Address:		Bank:	China Merchants Bank - Dongguan North Street Sub-branch
Demander Stamp:		Supplier Stamp:	

# PRODUCT SHOW

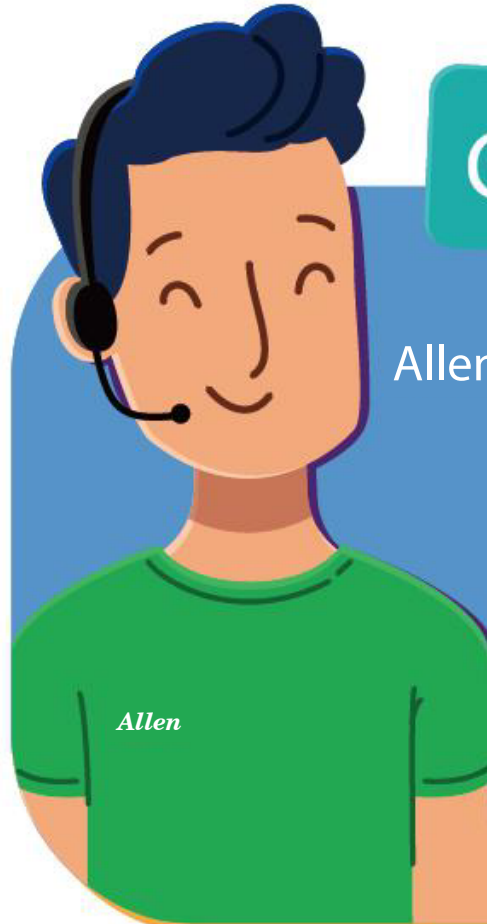


# PRODUCT SHOW





Thank You



CONTACT US!

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Dongguan YSC Automation Equipment Co., Ltd.