



## 宁波海天驱动有限公司

NINGBO HAITIAN DRIVE SYSTEMS CO.,LTD.

地址：浙江省宁波市北仑区小浣江中路518号 邮编：315801

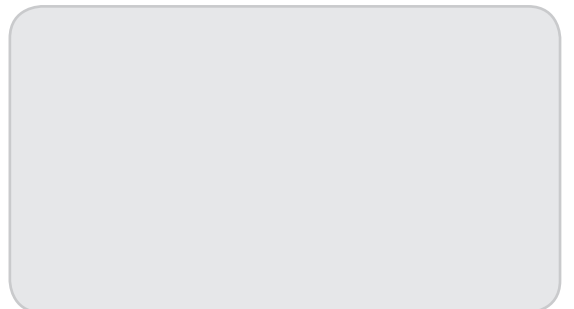
ADD:No.518,Xiaojiajiang Middle Road,Beilun District,Zhejiang,China,315801

电话/Tel: 0574-86181693/86188886

传真/Fax:0574-86181692

网址/Web:www.hilectro.com

Haitian Drive Sales Branch Companies:



Sample parameters are subject to change without prior notice.

The company reserves the right of final interpretation of the sample parameters.



2021

**Hilectro Automation**  
Servo Manipulator  
Provider of Automation Solutions



## Company Profile

### About Haitian Drive

As one of the five pillar industries of Haitian Group, Ningbo Haitian Drive Co., Ltd. has four industries (control technology, automation technology, new energy and hydraulic drive), of which Hilectro Automation has become a professional manufacturer in the automation field (servo manipulator automation, robot automation and magnetic template).

With Haitian Plastics Machinery Group as the platform, we provide customers with the overall solution of injection molding machine and machining peripheral, and build an efficient automatic production line.

### Haitian Drive: Drive Your Excellence

Drive your products: we make your product operation more stable and efficient through efficient and energy-saving servo control system; precise and stable functional components; flexible and high power density hydraulic motor.

Drive your logistics: as a professional manufacturer of electric forklift, we can make your factory logistics more green, efficient and safe through single and double drive counterweight forklift, storage truck and AGV.

Drive your production: as a professional servo manipulator manufacturer, we provide injection molding machine and machining peripheral automation solutions and create efficient production lines.



Drive Your Excellence







## Brand Introduction

### Servo manipulator and peripheral automation

1. The servo manipulator produced covers 60-4000 tons of injection molding machines, and the load covers 8-80kg, which can meet the production needs of different industries.
2. Special manipulator with a variety of structures can meet a variety of industry applications.



### Robot automation solution

We have deep cooperation with many well-known international robot manufacturers to provide robot automation solutions for customers in the injection molding machine and machining industry.



### Layout and planning of the whole plant automation

Design and plan the whole plant layout scheme such as whole plant automation scheme, and centralized feed and water supply for injection molding machine industry.







Drive your production





Be based on craftsmanship



Exquisite cr Exquisite craftsmanship creates quality

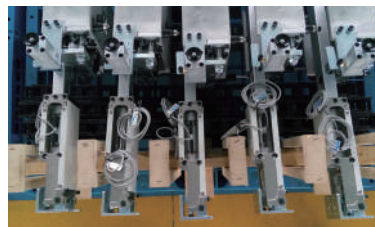
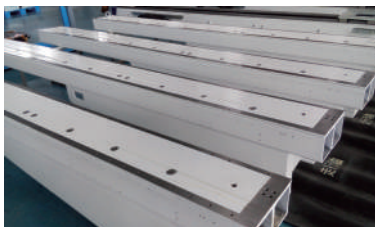


# Focus on quality

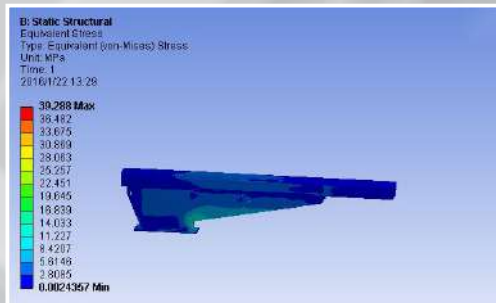
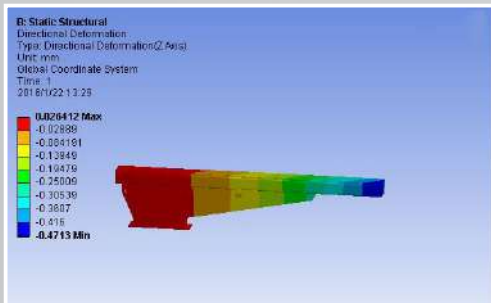


▲ Professional assembly line

▼ Component production management







# CAE

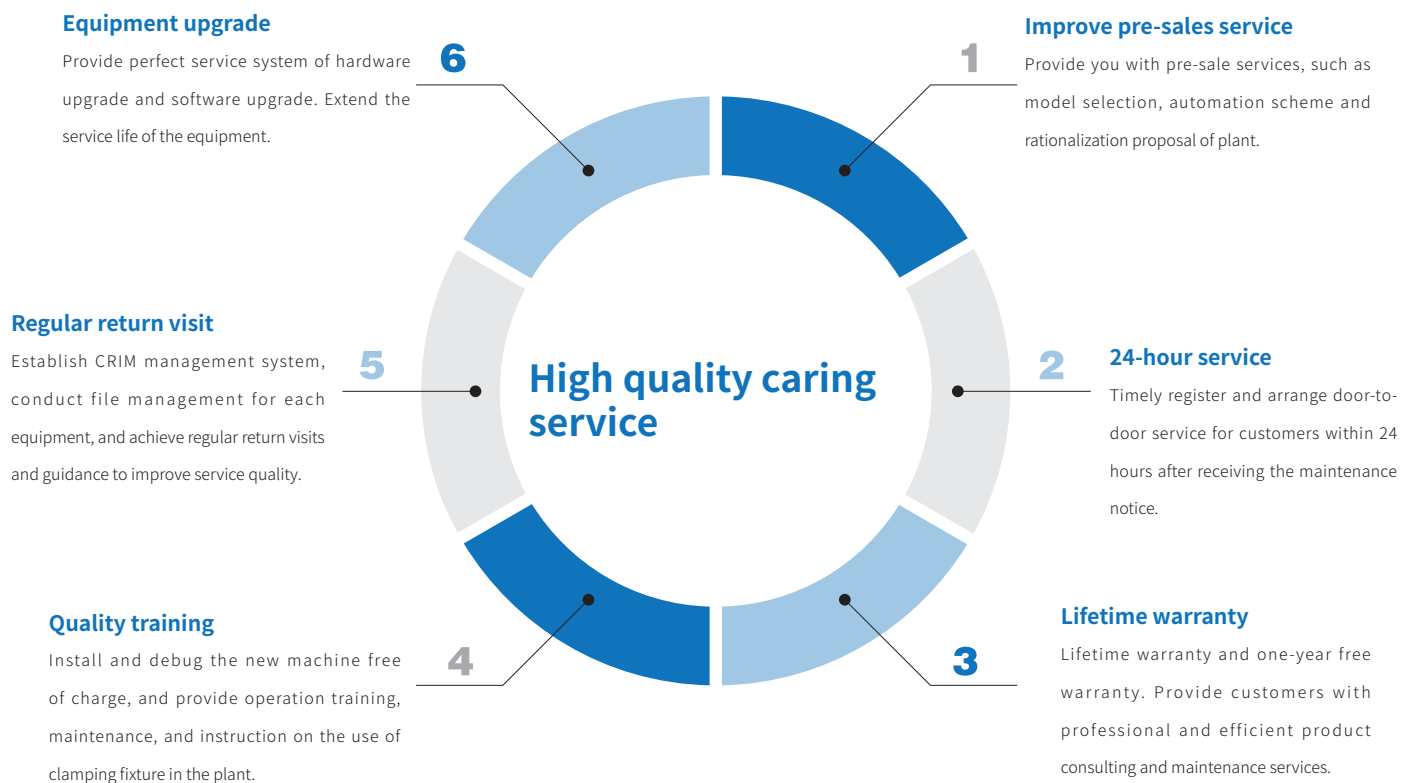
## structure optimization

More reasonable through  
 computer-aided structure

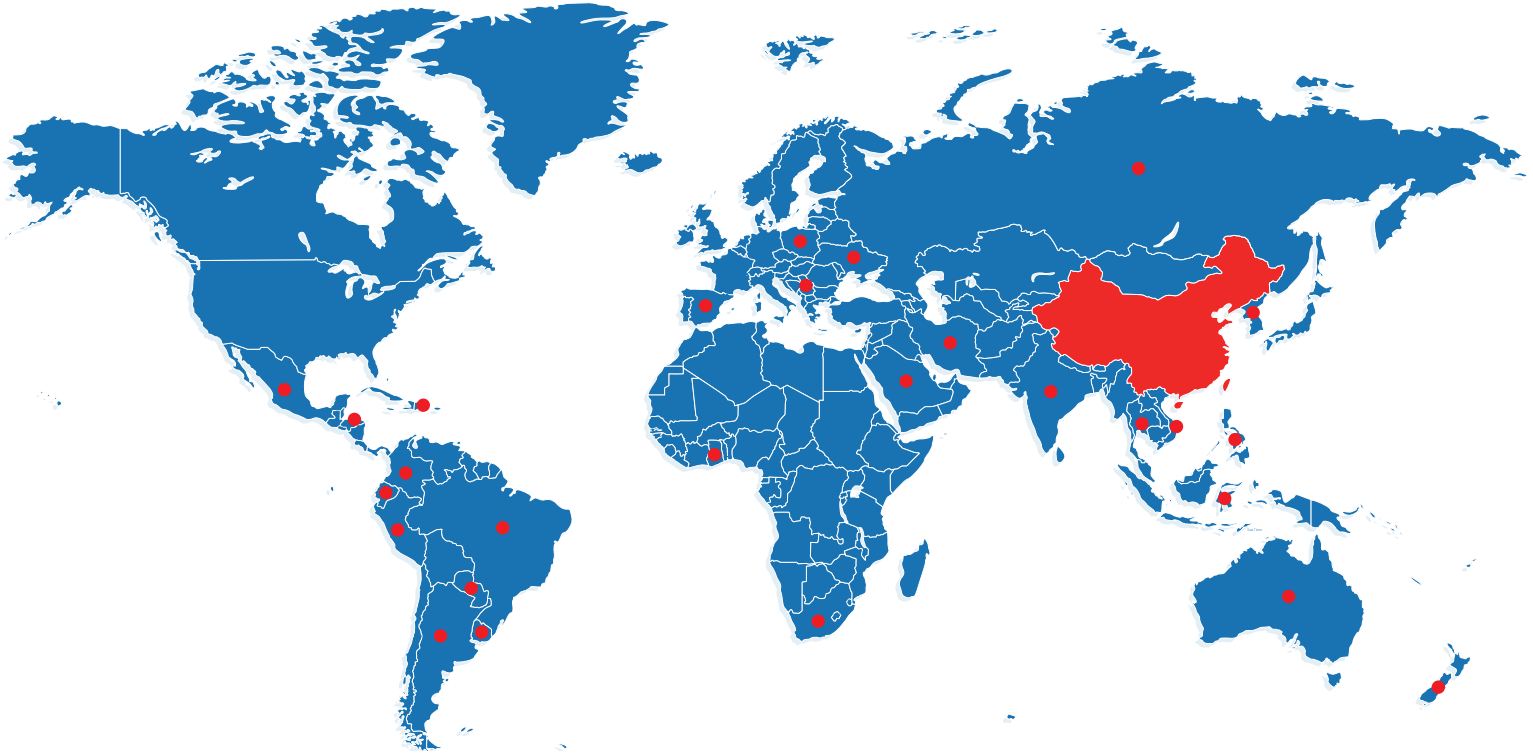
# Good service



Perfect service network



## Global sales and after-sales service network



National Free Service Hotline  
4001 533 588

Relying on the mature and high-quality development platform of Haitian Group, Hilectro Automation has a strong and perfect sales service network. Haitian Group has more than 80 distribution points in the world, covering more than 130 countries and regions and providing customers with efficient services anytime and anywhere.



# Contents

01

Controller

13-14



02

Cantilever manipulator

XTR-I(H)S,XTR-D

15-18



03

GA/GB manipulator

GA-I/HD,GB-I(H)D,GA-I/HS,GB-I(H)S,

19-26



04

XTF three-axis servo manipulator

XTF-800HD,XTF-900HD,XTF-1000HD,XTF-1100HD,XTF-1300HD

27-28



05

XTA full servo small and medium manipulator

XTA-I(H)D/h

29-32



06

XTA full servo large manipulator

XTA-I/HD

33-34



07

XTD full servo open manipulator

XTD-ID

35-36

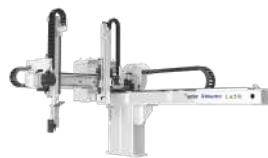


08

V series full servo manipulator

V series and VS performance version

37-40



09

Special manipulator 41-44

XTC, XTS, XTH, XTSL/D/DL

11

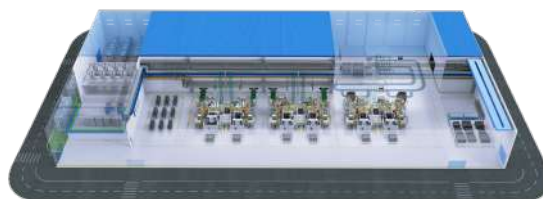
Automation solution case 47-50

centralized feeding, manipulator automation, robot automation and peripheral automation

10

Other introductions 45-50

end reversal, fixture case, standard configuration



# Product naming rules

**XTA** – **3000** **t** **HD** – **T<sub>1</sub>**

T: Special machine code (T1 and T2)  
CE: CE machine  
h: high-speed machine  
B: longitudinal single servo model

ID: double-cut single arm  
HD: double-cut double arm  
IS: single-cut single arm  
HS: single-cut double arm

Double-main boom model

3000: up and down stroke 3000mm

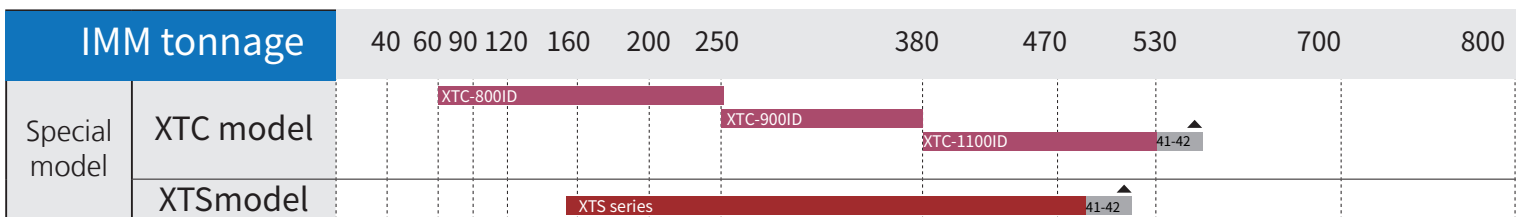
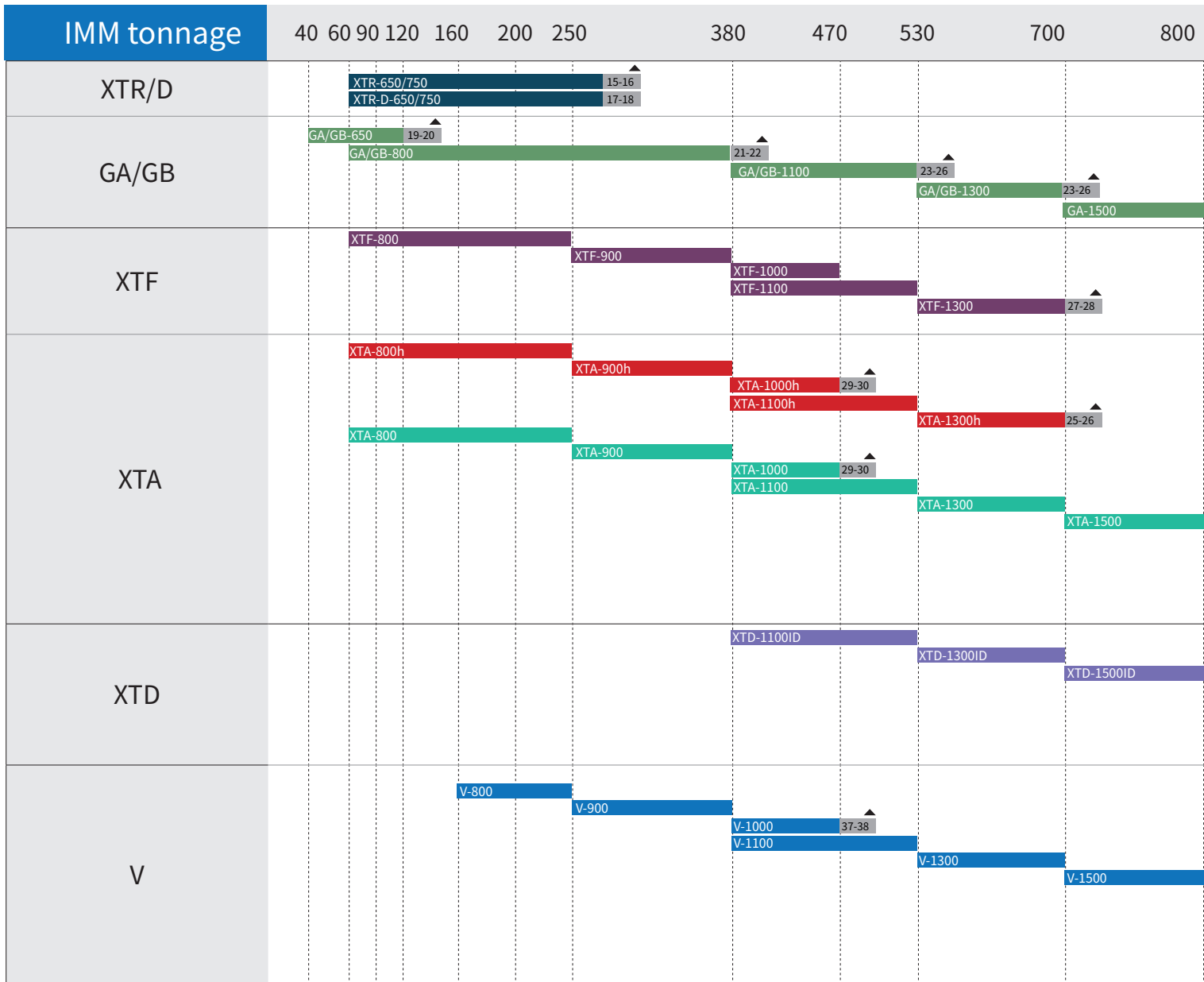
GA: economical full servo  
GB: economical single axle servo  
XTA: full servo series  
XTC: vertical series  
XTD: open series  
XTE: two-axis servo series  
XTF: three-axis servo series  
XTS: side-take series  
XTH: truss series (CNC machine tool industry)  
Vseries: advanced series

Industry  
certification

EAC CE



# Suitable injection molding machine



The Table provides customers with model selection reference, which is subject to pre-sales technical confirmation.

Main application industries



Automobile industry



Logistics industry



Home appliance industry



Electronics industry



Civil goods industry



Toy industry



IML industry



Machining industry





# Advanced control system

Drive your production



## Controller features

- >Embedded real-time system with high integration, high reliability and high scalability
- >Color touch screen with full graphic interface, easy to operate (3.2 inch, 5.7 inch and 7 inch)
- >The Euromap12 standard is adopted, and the signal of the host and the manipulator are safely interlocked. (OP:Euromap67)
- >For the function of opening the nozzle in the middle, the position and sequence of the nozzle opening can be set
- >The air pressure detection function can monitor the air inlet pressure and adsorption pressure, and display the air pressure value
- >Packing and arrangement function: standard function (256 points)
- >There are two modes of teaching: fixed mode and free mode
- >Large memory capacity
- >The position of the manipulator arm can be outside the mold, inside the mold and on the mold side
- >The memorable program can support USB offline editing
- >It can automatically detect faults and display them on the screen

# Manual manipulator



XTR-650 IS  
 XTR/D-650 IS  
 GB-650 I(H) S  
 GB-750 I(H) S  
 GB-800 I(H) D  
 GB-900 I(H) D  
 GB-1000 I(H) D  
 GB-1100 I(H) D  
 GB-1300 I(H) D

Standard GB / XTB series single axis servo configuration  
 \*Button markings on XTR series models will be different



GA-650 I(H) S  
 GA-750 I(H) S  
 GA-800 I(H) D  
 GA-900 I(H) D  
 GA-1000 I(H) D  
 GA-1100 I(H) D  
 GA-1300 I(H) D  
 GA-1500 I(H) D

Standard G series full servo model configuration



V-800 I(H)S  
 V-900 I(H)S  
 V-1000 I(H)S  
 V-1100 I(H)D  
 VS-1100 ID  
 V-1300 I(H)D  
 VS-1300ID

Standard V series full servo manipulator configuration



7-inch

XTA-800 I(H)S  
 XTA-900 I(H)S  
 XTA-800 I(H)Dh  
 XTA-900 I(H)Dh  
 XTA-1000 I(H)Dh  
 XTA-1100 I(H)Dh  
 XTA-1300 I(H)Dh  
 XTA-1500 I(H)D  
 XTA-1700 I(H)D  
 XTA-1800 I(H)D  
 XTA-2000 I(H)D  
 XTA-2500 I(H)D  
 XTA-3000 ID  
 XTD-1100IDh  
 XTD-1300IDh  
 XTD-1500 ID  
 XTD-1700 ID  
 XTD-2500 ID  
 XTD-3000 ID



Full-touch screen manual manipulator CE/UL model, some OP models /6-axis models or more

The autonomous control system deeply integrated with the Haitian injection molding machine control is more user-friendly.



# XTR-I(H)S

## Swing Arm Series

### Swing-arm manipulator

Suitable for 60-280t IMM

Easier

More economic



#### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time	Full cycle time (excluding fixture)	Maximum load (including fixture)	Swing angle	Claw rotation angle	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	°	°	kg
XTR-650	Single-cut	60-200	0.2	AC single-phase 220V±10% 50/60HZ	0.1	0.59	11	Cylinder drive	3.2	7.8	3	50~90	90	40	
XTR-750	Single-cut	200-280	0.2		0.1	0.59	11.5	Cylinder drive	3.41	8	3	50~90	90	41	

#### Product features

>XTR is a rotary arm series model with a lighter structure and more energy-saving design.

>The operating system is simple and the learning cost is low.

>The linear bearings which can withstand high-speed movements and ensure low friction, high rigidity and high precision are used front and rear axles.



Home appliance industry

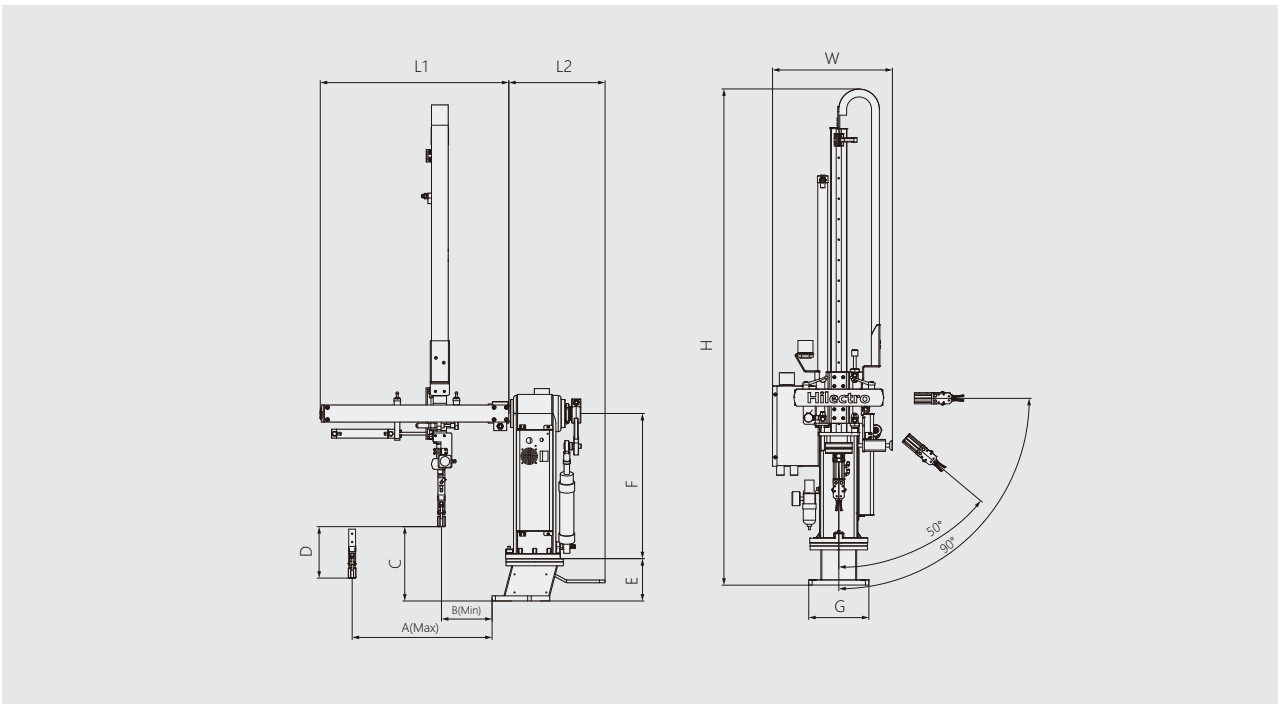


Civil goods industry



Toy industry

Size parameter



Type	XTR-650	XTR-750
	XTR-650IS	XTR-750IS
L	830	830
W	350	350
H	1352	1472
A	405	405
B	100	100
C	200	233
D	650	750
E	133	133
F	440	440
G	172	172
L1	550	550
L2	280	280
Remarks	Down stroke: 650mm Front and rear stroke: 120mm	Down stroke: 750mm Front and rear stroke: 120mm

# XTR/D Swing Arm Series

Swing-arm manipulator

Suitable for 60-280t IMM  
Easier  
More economic



## Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time	Full cycle time (excluding fixture)	Maximum load (including fixture)	Swing angle	Claw rotation angle	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	°	°	kg
XTR-650	Single-cut	60-200	0.2	AC single-phase 220V±10% 50/60HZ	0.1	0.59	11	Cylinder drive	3.2	7.8	3	50-90	90	40	
XTR-750	Single-cut	200-280	0.2		0.1	0.59	11.5	Cylinder drive	3.41	8	3	50-90	90	41	

## Product features

XTR-D is a rotary arm series model with a lighter structure and more energy-saving design.

The operating system is simple and the learning cost is low.

The linear bearings which can withstand high-speed movements and ensure low friction, high rigidity and high precision are used front and rear axles.



Home appliance industry

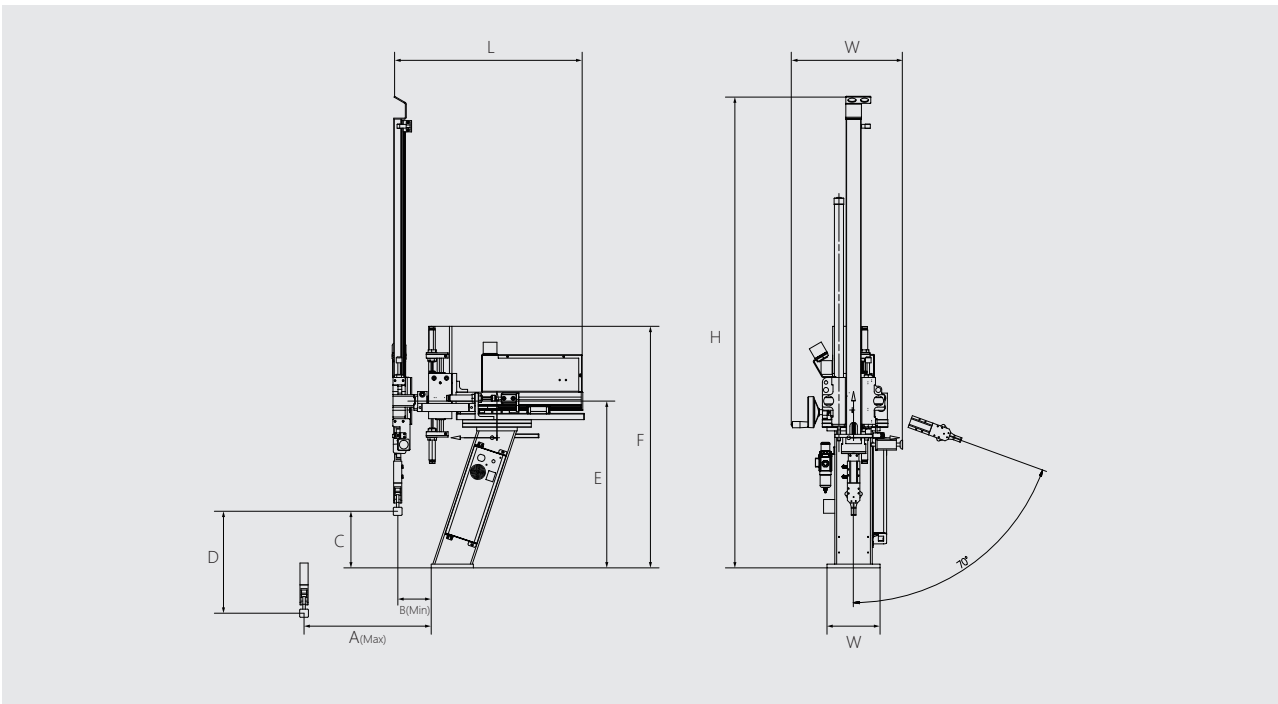


Civil goods industry



Toy industry

Size parameter



Type	XTR/D-650	XTR/D-750
	XTR/D-650IS	XTR/D-750IS
L	613	613
W	350	350
H	1430	1550
A	408	408
B	108	108
C	180	180
D	650	750
E	535	535
F	775	775
G	170	170
Remarks	Down stroke: 650mm Front and rear stroke: 120mm	Down stroke: 750mm Front and rear stroke: 120mm



# GA/GB 650 Series

Single-cut suspension

Suitable for 40-120t IMM

More efficient

More stable



## Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GA-650(H)S	Single-cut suspension	40-120	1.06	AC single-phase 220V±10% 50/60HZ	3	0.49	2.67	Full servo	1.70	6.1	4	7.2	230/250	
GB-650(H)S	Single-cut suspension	40-120	0.6	2	0.59	16.2/25.6	Travel axis servo drive Other axis cylinder drive	3.95	9.62	4	7.2	210/225		

## Product features

>GA/GB series has a lighter structure and more energy-saving design.

>The operating system is simple and the learning cost is low.

>The linear guideway which can withstand high-speed movements and ensure low friction, high rigidity and high precision is used front and rear axles.



Home appliance  
industry

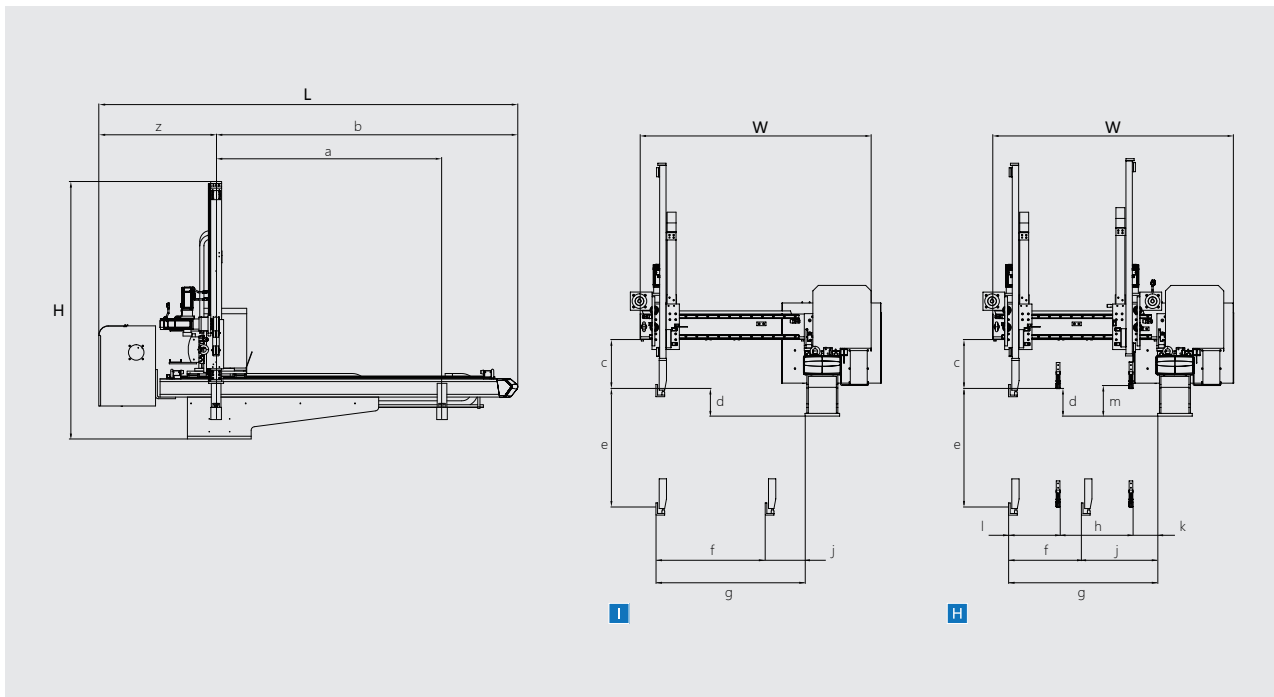


Civil goods  
industry



Toy  
industry

## Size parameter



Legend	Software	GA-650		GB-650	
		GA-650IS	GA-650HS	GB-650IS	GB-650HS
L	L	2280	2280	2250	2250
W	W	1560	1560	1350	1350
H	H	1400	1400	1275	1275
a	X	1200	1200	1200	1200
b	L2	1620	1620	1600	1600
c	Z1	250	250	260	260
d	Z5	120	120	140	140
e	Z	650	650	650	650
f	Y	655	525	730	565
g	Y+Y1	800	800	850	850
h	Y4	-	525	-	565
i	Y5+Y2	-	-	-	-
j	Y1+Y2	145	275	120	285
k	Y5	-	145	-	110
l	Y3	-	130	-	175
m	Z5	-	140	-	180
z	L1				
Remark					
Description		the stroke of the front and rear cylinders on the product side is 250, and the stroke of the front and rear cylinders on the water gap side is 150.			

# GA/GB 800 Series

## Double-cut suspension

Suitable for 60-380t IMM

More efficient

More stable



### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GA-800(H)D	Double-cut suspension	60-250	1.2/2.1	AC single-phase 200V±10% 50/60HZ	3	0.49	2.38	Full servo	1.8	6.5	4	7.2	240/270	
GA-900(H)D	Double-cut suspension	250-380	1.23/2.15		3	0.49	2.46		1.83	6.7	4	7.2	245/285	
GB-800(H)D	Double-cut suspension	60-250	0.7		2	0.59	16.8/27.63	Travel axis servo drive Other axis cylinder drive	4.7	10.9	4	7.2	230/250	
GB-900(H)D	Double-cut suspension	250-380	0.7		2	0.59	17.64/29.83		4.9	11.5	4	7.2	245/265	

### Product features

- >GA/GB series has a lighter structure and more energy-saving design.
- >The operating system is simple and the learning cost is low.
- >The linear guideway which can withstand high-speed movements and ensure low friction, high rigidity and high precision is used front and rear axles.



Home appliance industry

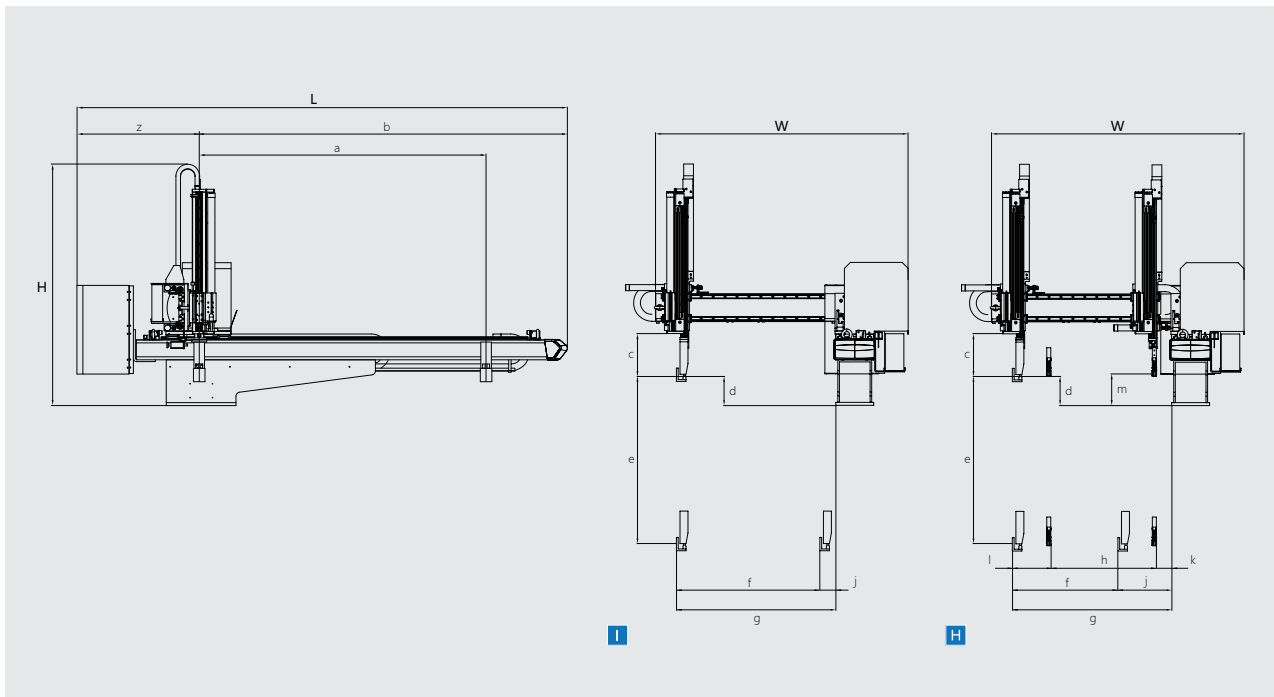


Civil goods industry



Toy industry

## Size parameter



Legend	Software	GA-800		GA-900		GB-800		GB-900	
		GA-800ID	GA-800HD	GA-900ID	GA-900HD	GB-800ID	GB-800HD	GB-900ID	GB-900HD
L	L	2480	2480	2480	2480	2450	2450	2450	2450
W	W	1560	1560	1680	1680	1420	1420	1540	1540
H	H	1300	1300	1360	1360	1200	1200	1260	1260
a	X	1400	1400	1400	1400	1400	1400	1400	1400
b	L2	1815	1815	1815	1815	1820	1820	1820	1820
c	Z1	220	220	220	220	220	220	220	220
d	Z5	110	110	110	110	140	140	140	140
e	Z	850	850	950	950	800	800	900	900
f	Y	590	470	710	590	660	490	780	610
g	Y+Y1	790	790	910	910	790	790	910	910
h	Y4	-	470	-	590	-	490	-	610
i	Y5+Y2	-	-	-	-	-	-	-	-
j	Y1+Y2	200	320	200	320	130	300	130	300
k	Y5	-	170	-	170	-	90	-	90
l	Y3	-	150	-	150	-	210	-	210
m	Z5	-	130	-	130	-	150	-	150
z	L1								
Remark									
Remark									

# GB-I(H)D 1100 Series

Single-axis servo double-cut frame

Suitable for 380-700t IMM

More efficient

More stable



## Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GB-1100I(H)D	Double-cut frame	380-530	0.7	AC single-phase 200V±10% 50/60HZ	2	0.59	48.2/68.4	Travel axis servo drive Other axis cylinder drive	5.22	16.32	8	10	460/500	
GB-1300I(H)D	Double-cut frame	530-700	0.7		1.6	0.59	50.3/74.4		5.46	18.7	8	10	520/560	

## Product features

- >For GB series single-servo small manipulator, X-axis drive is driven by high-performance AC servo motor to meet the needs of fast pickup. Y-axis and Z-axis are driven by air cylinder, which is more economical.
- >With Z-axis double speed design, the speed is faster. At the same time, it can meet the installation needs of customers with lower plant.
- >With a lighter structure design, it is more energy-saving. The operating system is simple and the learning cost is low.
- >It is easy to maintain.
- >With the application of one-piece flip, it has a longer life and a more stable life, which ensures the stability of picking up parts.



Home appliance industry



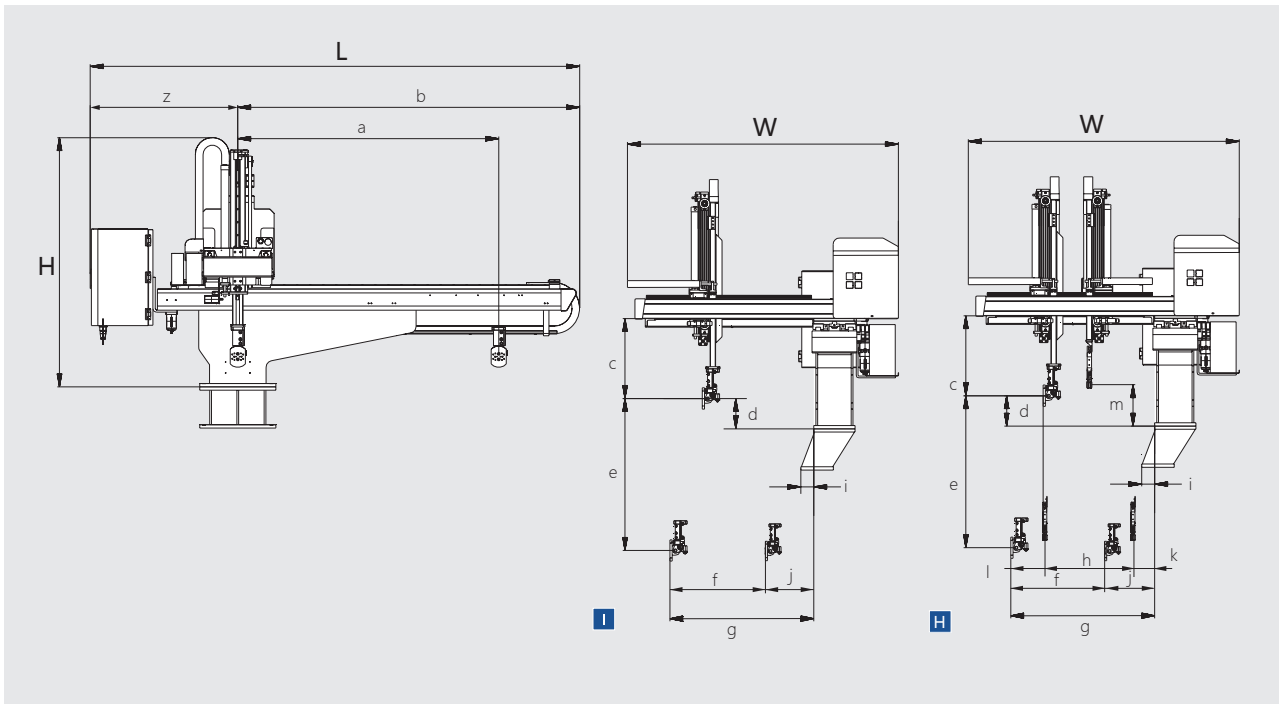
Civil goods industry



Toy industry



## Size parameter



Legend	Software	GB-1100		GB-1300	
		GB-1100ID	GB-1100HD	GB-1300ID	GB-1300HD
L	L	2970	2970	3150	3150
W	W	1790	1790	1970	1970
H	H	1650	1700	1750	1800
a	X	1800	1800	2000	2000
b	L2	2170	2170	2350	2350
c	Z1	328	328	328	328
d	Z5	200	200	200	200
e	Z	1100	1100	1300	1300
f	Y	900	670	1100	870
g	Y+Y1	1050	1050	1250	1250
h	Y4	-	670	-	870
i	Y5+Y2	100	100	100	100
j	Y1+Y2	150	400	150	400
k	Y5	-	180	-	180
l	Y3	-	220	-	220
m	Z5	-	250	-	250
z	L1	800	800	800	800
Remark	the stroke of the front and rear cylinders on the product side is 300, and the stroke of the front and rear cylinders on the water gap side is 200				

# GA-I(H)D

## Medium Model Series

Full-servo double-cut frame

Suitable for 380-1000t IMM

More efficient

More stable



### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GA-1100I(H)D	Double-cut frame	380-530	1.3/2.3	AC single-phase 200V±10% 50/60HZ	3	0.49	2.9	Full servo drive	2.1	7.5	8	10	470/520	
GA-1300I(H)D	Double-cut frame	530-700	1.5/2.6		3	0.49	3.1		2.4	8.2	8	10	530/580	
GA-1500I(H)D	Double-cut frame	700-1000	2.1/3.2	4	0.59	20.4	3.4		13.5	20	45	920/995		

### Product features

>For GA series full-servo medium model manipulator, each axis is driven by high-performance AC servo motors to make the manipulator faster, more accurate, and more durable.

>With the operating system deeply customized, the program teachable and the action being able to be set flexibly according to the action demand, the manipulator has the characteristics of high performance.

>It is applied to various product pickup applications with short molding cycle, or to more complex automation occasions.

>By calling the internal program quickly, the needs of different mold production are met.

>Under the condition of ensuring speed, the needs of customers with larger loads are met.



Automobile industry



Home appliance industry



Electronics industry

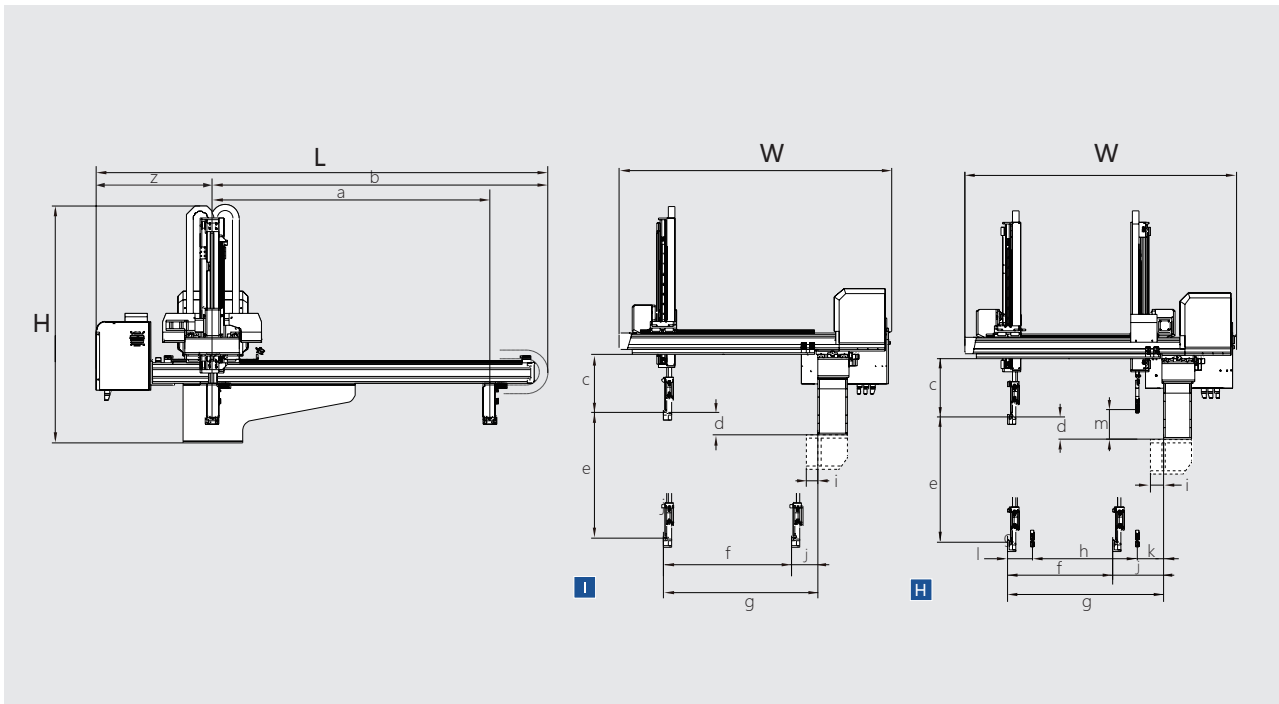


Civil goods industry



Toy industry

## Size parameter



Legend	Software	GA-1100		GA-1300		GA-1500	
		GA-1100ID	GA-1100HD	GA-1300ID	GA-1300HD	GA-1500ID	GA-1500HD
L	L	2940	2940	3120	3120	3820	3820
W	W	1790	1790	1970	1970	2480	2480
H	H	1700	1700	1800	1800	1980	1980
a	X	1800	1800	2000	2000	2500	2500
b	L2	2170	2170	2350	2350	3102	3102
c	Z1	328	328	328	328	450	450
d	Z5	200	200	200	200	128	128
e	Z	1100	1100	1300	1300	1500	1500
f	Y	900	670	1100	870	1320	1120
g	Y+Y1	1050	1050	1250	1250	1520	1520
h	Y4	-	670	-	870	-	1120
i	Y2	100	100	100	100	100	100
j	Y1+Y2	150	380	150	380	200	400
k	Y5+Y2	-	160	-	160	-	210
l	Y3	-	220	-	220	-	190
m	Z5	-	250	-	250	-	138
z	L1	800	800	800	800	755	755
Remark							
Description							

# XTF-I(H)D

## Small and Medium Model Series

Three-axis servo double-cut frame

Suitable for 60-700t IMM  
More efficient  
More stable



### Basic parameters

Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
Model	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTF-800HD	Double-cut frame	60-250	1.08	AC single-phase 200V±10% 50/60HZ	2	0.59	15.92	The upper, lower, front and rear axes of the water gap are driven by cylinders and the other axes are driven by servo	1.59	6.5	5	8.5	390
XTF-900HD	Double-cut frame	250-380	1.15		2	0.59	17.17		1.67	6.8	5	8.5	410
XTF-1000HD	Double-cut frame	380-470	1.16		2	0.59	18.42		1.75	7.1	5	8.5	430
XTF-1100HD	Double-cut frame	380-530	1.3		3	0.49	27		1.96	7.1	8	13	520
XTF-1300HD	Double-cut frame	530-700	1.5		3	0.49	31		2.16	8	8	13	580

### Product features

>For XTF series three-axis servo small manipulator, X, Y and Z-axis drive is driven by high-performance AC servo motor to meet the needs of fast pickup. Y1-axis and Z1-axis are driven by air cylinder, which is more economical.

>With Z-axis double speed design, the speed is faster. At the same time, it can meet the installation needs of customers with lower plant.

>With a lighter structure design, it is more energy-saving

>The operating system is simple and the learning cost is low.

>With the application of one-piece flip, it has a longer life and a more stable life, which ensures the stability of picking up parts.



Home appliance industry



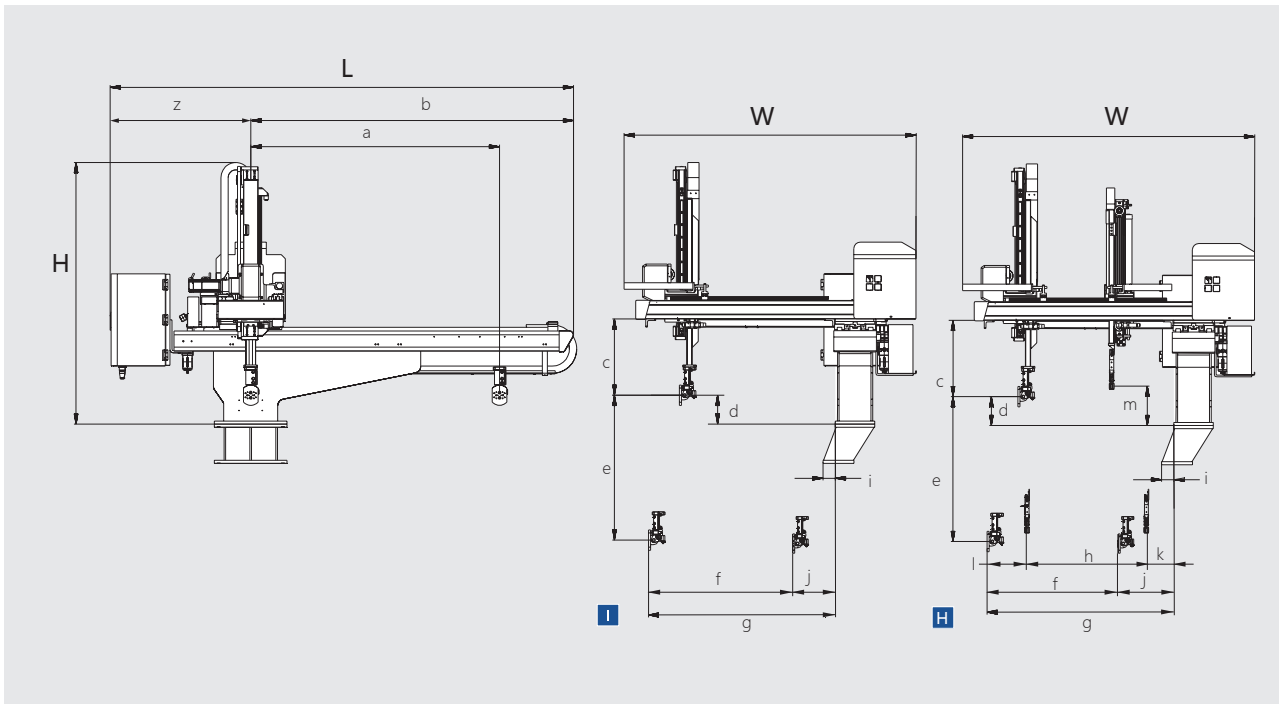
Civil goods industry



Toy industry



## Size parameter



Legend	Software	XTF-800	XTF-900	XTF-1000	XTF-1100	XTF-1300
		XTF-800HD	XTF-900HD	XTF-1000HD	XTF-1100HD	XTF-1300HD
L	L	2460	2640	2640	2970	3150
W	W	1570	1690	1335	1355	1700
H	H	1280	1335	1355	1700	1800
a	X	1400	1600	1600	1800	2000
b	L2	1760	1940	1940	2170	2350
c	Z1	260	260	260	328	328
d	Z5	140	140	140	200	200
e	Z	800	900	1000	1100	1300
f	Y	450	570	570	670	870
g	Y+Y1	800	920	920	1050	1250
h	Y4	450	570	570	670	870
i	Y5+Y2	100	100	100	100	100
j	Y1+Y2	350	350	350	380	380
k	Y5	150	150	150	180	180
l	Y3	200	200	200	200	200
m	Z5	190	190	190	250	250
z	L1	550	550	550	650	650
Remark	800/900/1000 cylinder stroke: 150, 1100/1300 cylinder stroke: 200					

# XTA-I(H)D

## Small Model Series

Full-servo double-cut frame

Suitable for 60-380t IMM

More efficient

More stable



### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-800I(H)D	Double-cut frame	60-250	1.2/2.1	AC single-phase 200V±10% 50/60HZ	3.0	0.49	6.8	Full servo drive	1.59	6.5	5	8.5	290/345	
XTA-900I(H)D	Double-cut frame	250-380	1.2/2.1		3.0	0.49	6.8		1.67	7	5	8.5	295/355	
XTA-1000I(H)D	Double-cut frame	250-380	1.2/2.1		3.0	0.49	7		1.75	7.1	5	8.5	300/365	
XTA-800ID/h	Double-cut frame	60-250	1.8		3.0	0.49	3.05		1.14	4.3	2	8.5	300	
XTA-900ID/h	Double-cut frame	250-380	1.8		3.0	0.49	3.2		1.18	4.4	2	8.5	310	
XTA-1000ID/h	Double-cut frame	250-380	1.8		3.0	0.49	3.2		1.21	4.5	2	8.5	320	

### Product features

>For XTA series full-servo small model manipulator, each axis is driven by high-performance AC servo motors to make the manipulator faster, more accurate, and more durable.

>With the operating system deeply customized, the program teachable and the action being able to be set flexibly according to the action demand, the manipulator has the characteristics of high performance.

>It is applied to various product pickup applications with short molding cycle, or to more complex automation occasions.

>This series of models includes high-speed machine models, which can pick up super fast and greatly improve production efficiency.

>By calling the internal program quickly, the needs of different mold production are met.



Home appliance industry



Electronics industry

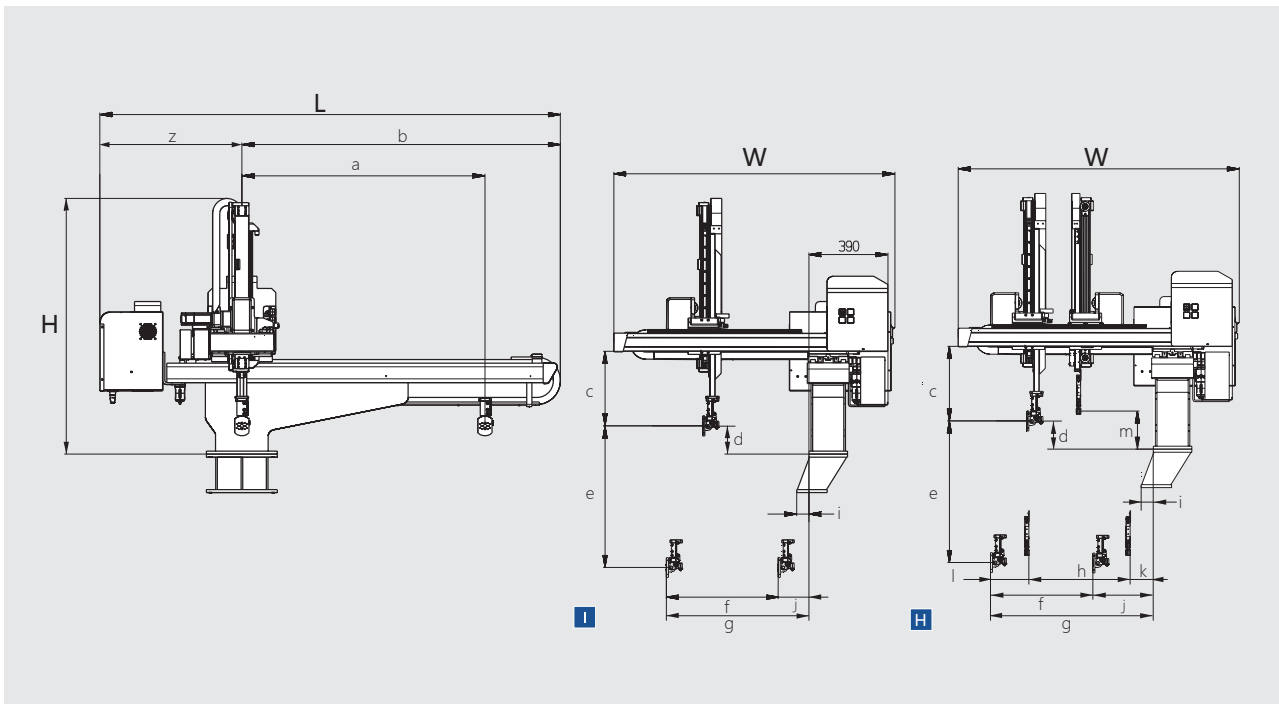


Civil goods industry



Toy industry

Size parameter



Legend	Software	XTA-800		XTA-900		XTA-1000	
		XTA-800ID (h)	XTA-800HD	XTA-900ID (h)	XTA-900HD	XTA-1000ID (h)	XTA-1000HD
L	L	2320	2320	2320	2320	2320	2320
W	W	1570	1570	1690	1690	1690	1690
H	H	1340	1340	1400	1400	1460	1460
a	X	1400	1400	1400(1600)	1400	1400(1600)	1400
b	L2	1760	1760	1760 (1940)	1760	1760(1940)	1760
c	Z1	260	260	260	260	260	260
d	Z5	140	140	140	140	140	140
e	Z	800	800	900	900	1000	1000
f	Y	670 (570)	480	790 (670)	600	790 (670)	600
g	Y+Y1	800 (700)	800	920 (800)	920	920 (800)	920
h	Y4	-	480	-	600	-	600
i	Y5+Y2	100	100	100	100	100	100
j	Y1+Y2	130	320	130	320	130	320
k	Y5	-	150	-	150	-	150
l	Y3	-	170	-	170	-	170
m	Z5	-	190	-	190	-	190
z	L1	550	550	550	550	550	550
Description							

# XTA-I(H)D

## Medium Model Series

Full-servo double-cut frame

Suitable 380-1300t IMM

More efficient

More stable



### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-1100I(H)D	Double-cut frame	380-530	2.1/2.9	AC single-phase 200V±10% 50/60HZ	3	0.49	9.1	Full servo drive	1.96	7.1	8	13	470/520	
XTA-1300I(H)D	Double-cut frame	530-700	2.1/2.9		3	0.49	9.2		2.16	8	8	13	530/580	
XTA-1100ID/h	Double-cut frame	380-530	3.6		4	0.49	6.2		1.51	6.1	4	13	515	
XTA-1300ID/h	Double-cut frame	530-700	3.6		4	0.49	6.4		1.55	6.3	4	13	520	
XTA-1500I(H)D	Double-cut frame	700-1000	2.3/3.5	AC triple-phase 200V±10% 50/60HZ	4	0.59	23.7		3.16	12.7	20	45	920/995	
XTA-1700I(H)D	Double-cut frame	1000-1300	2.3/3.5		4	0.59	25.1		3.24	14.48	20	45	935/1020	

### Product features

>For XTA series full-servo medium model manipulator, each axis is driven by high-performance AC servo motors to make the manipulator faster, more accurate, and more durable.

>With the operating system deeply customized, the program teachable and the action being able to be set flexibly according to the action demand, the manipulator has the characteristics of high performance.

>It is applied to various product pickup applications with short molding cycle, or to more complex automation occasions.

>This series of models includes high-speed machine models, which can pick up super fast and greatly improve production efficiency.

>By calling the internal program quickly, the needs of different mold production are met.

>Under the condition of ensuring speed, the needs of customers with larger loads are met.



Automobile industry



Home appliance industry



Electronics industry

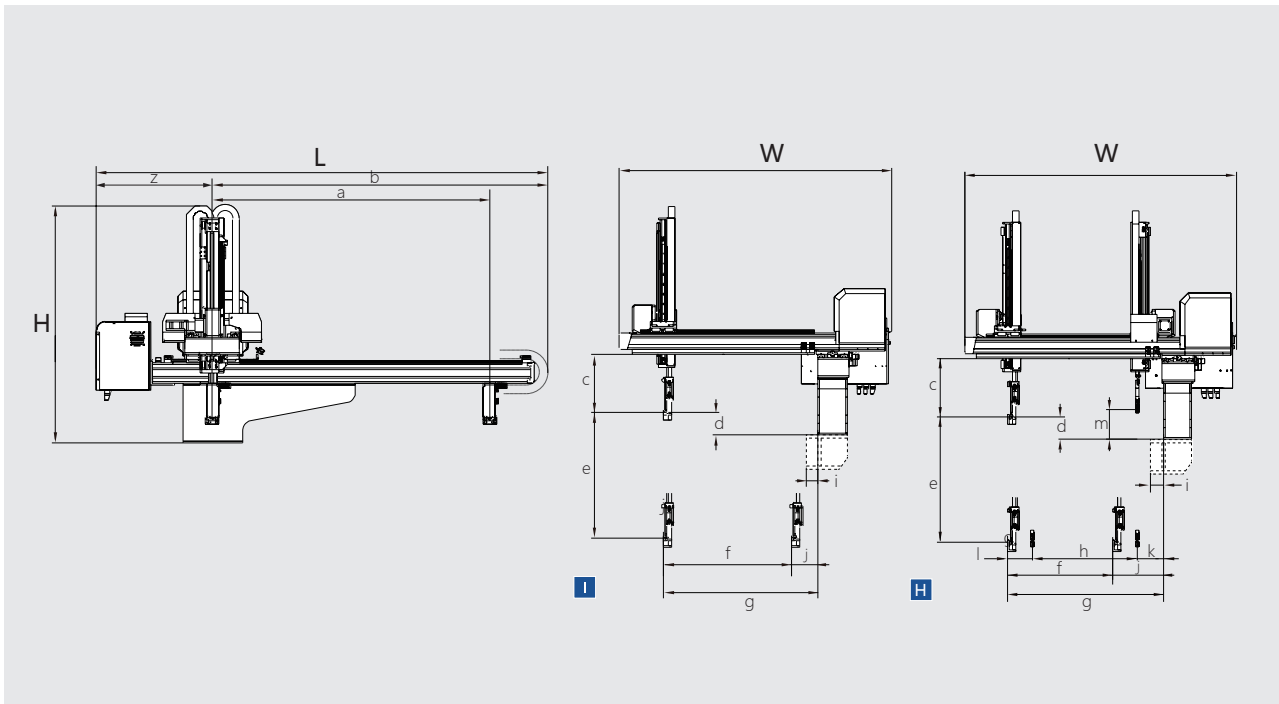


Civil goods industry



Toy industry

Size parameter



Legend	Software	XTA-1100		XTA-1300		XTA-1500		XTA-1700	
		XTA-1100ID(h)	XTA-1100HD	XTA-1300ID(h)	XTA-1300HD	XTA-1500ID	XTA-1500HD	XTA-1700ID	XTA-1700HD
L	L	2970	2970	3150	3150	3847	3847	3847	3847
W	W	1790	1790	1970	1970	2480	2480	2480	2480
H	H	1650	1700	1750	1800	1935	1935	2065	2065
a	X	1800	1800	2000	2000	2500	2500	2500	2500
b	L2	2170	2170	2350	2350	3102	3102	3102	3102
c	Z1	328	328	328	328	450	450	450	450
d	Z5	200	200	200	200	128	128	128	128
e	Z	1100	1100	1300	1300	1500	1500	1700	1700
f	Y	900	670	1100	870	1320	1120	1320	1120
g	Y+Y1	1050	1050	1250	1250	1520	1520	1520	1520
h	Y4	-	670	-	870	-	1120	-	1120
i	Y5+Y2	100	100	100	100	80	80	80	80
j	Y1+Y2	150	380	150	380	200	400	200	400
k	Y5	-	160	-	160	-	210	-	210
l	Y3	-	220	-	220	-	190	-	190
m	Z5	-	250	-	250	-	138	-	138
z	L1	800	800	800	800	755	755	755	755
Remark									
Description									



# XTA-I(H)D

Large Model Series

Full-servo Double-cut frame

Suitable for 800-4500t IMM

More efficient

More stable



## Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-2000I(H)D	Double-cut frame	800-1600	2.1/5.0	AC triple-phase 200V±10% 50/60HZ	6	0.59	27.67	Full servo drive	5.53	16.6	35	88	1274/1341	
XTA-2500ID	Double-cut frame	1600-4000	4.0		10	0.59	33.3		6.04	20	40	64	2630	
XTA-3000ID	Double-cut frame	1600-4000	4.0		10	0.59	41.67		8.04	25	80	123	4400	

## Product features

>The XTA series full-servo large manipulator is made with Japanese technology to meet the high-load requirements of customers.

>The manipulator, featured by high speed, low noise, accurate positioning, and strong operation controllability is driven by three-axis (five-axis) full-servo motor.

>The human-machine hand operator has a graphical interface, which is more user-friendly.

>After years of technical accumulation and precipitation, the self-developed

>XTA-3000tHD dual main boom model has been launched, which has higher load capacity and is favored by customers in the automotive industry.



Automobile industry



Logistics industry

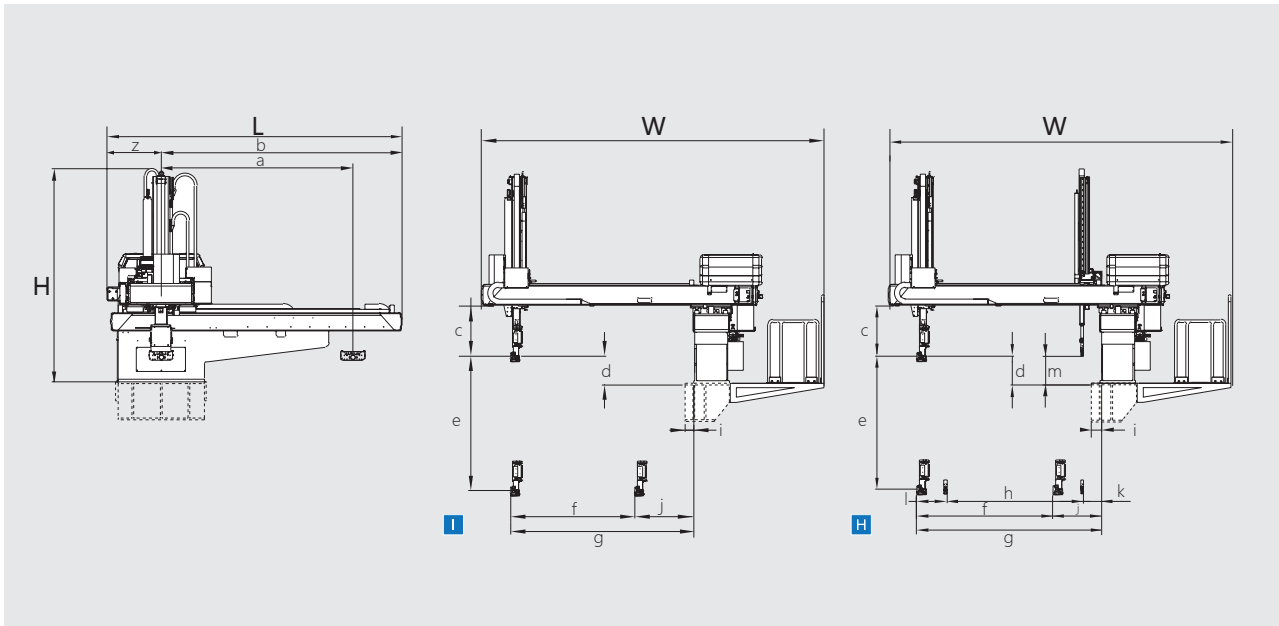


Home appliance industry



Civil goods industry

Size parameter



Legend	Software	XTA-2000		XTA-2500	XTA-3000
		XTA-2000ID	XTA-2000HD	XTA-2500ID	XTA-3000ID
L	L	4475	4475	5580	5980
W	W	3543	3543	4222	4222
H	H	2290	2290	3080	3320
a	X	3000	3000	3500	4000
b	L2	3510	3510	4508	4700
c	Z1	555	555	719	819
d	Z5	250	250	445	345
e	Z	2000	2000	2500	3000
f	Y	1590	1415	1600	1600
g	Y+Y1	1800	1800	2150	2150
h	Y4	-	1415	-	-
i	Y5+Y2	100	100	80	80
j	Y1+Y2	210	550	550	550
k	Y5	-	180	-	-
l	Y3	-	310	-	-
m	Z5	-	300	-	-
z	L1	965	965	1072	1072
Description					

# XTD-ID Open Series

Full servo open

Suitable for 280-4500t IMM  
More efficient  
More stable



## Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTD-1100ID	开放式	280-470	1.6	AC single-phase 200V±10%/60HZ	3.0	0.49	16.8	Full servo drive	2.55	7.8	8	13	430	
XTD-1300ID	开放式	530-700	1.64		3.0	0.49	17.6		2.69	8.4	8	13	460	
XTD-1500ID	开放式	700-1000	2.24	4.0	0.59	20.1	3.11		13.2	20	45	1210		
XTD-1700ID	开放式	1000-1300	2.3	4.0	0.59	20.3	3.18		15.4	20	45	1250		
XTD-2000ID	开放式	1300-1600	2.84	AC triple-phase 200V±10%/60HZ	5.0	0.59	20.7		3.32	17.2	35	100	1248	
XTD-2500ID	开放式	1600-2100	3.16		8.0	0.59	23.7		5.57	19.3	40	200	2512	
XTD-3000ID	开放式	2100-4500	4.0		10.0	0.59	26.5		7.16	22.13	80	360	2650	

## Product features

Without the constraints of the frame structure, XTD series full-servo manipulator moves more flexibly and reliably, and is applicable to a wider range of products.

Made of high-rigidity aluminum profiles and combined with a double-speed design, the upper and lower units have a compact structure and beautiful appearance.

With a tauren structure, the center of gravity is placed back to make the arm of force used shorter, the durability higher, and more fixture application space increased.

Through the terminal expansion, it can achieve more dimensional movement, which can meet the complex applications.



Automobile industry



Logistics industry

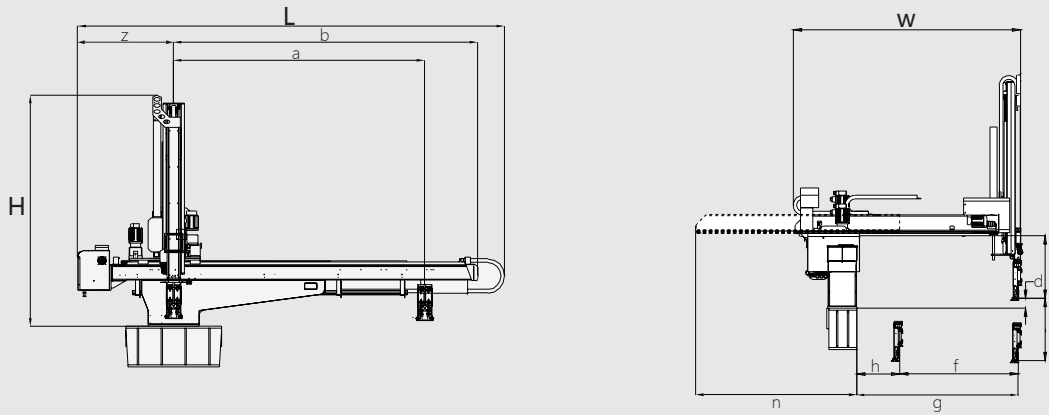


Home appliance industry



Civil goods industry

## Size parameter



Legend	Software	XTD-1100ID	XTD-1300ID	XTD-1500ID	XTD-1700ID	XTD-2000ID	XTD-2500ID	XTD-3000ID
L	L	3004	3184	3835	3835	4575	5257	5864
W	W	1962	2162	2450	2450	3535	3685	3559
H	H2	1610	1670	2025	2120	2480	3030	3522
a	X	1800	2000	2500	2500	3000	3500	4000
b	L2	2283	2523	2876	2876	3410	3915	5582
c	Z1	402	402	500	500	452	593	601
d	Z4	260	260	190	190	325	366	358
e	Z	1100	1300	1500	1700	2000	2500	3000
f	Y	980	1160	1340	1340	1800	2200	2200
g	Y+Y1+Y2	1235	1415	1632	1632	2165	2715	2695
h	Y1+Y2	255	255	292	292	365	515	495
n	N	1480	1660	1907	1907	2500	3082	3087
z	L1	700	700	942	942	945	1095	1095
Remark	Base offset: 50mm							
Description								



# V-I(H)S

## Small Model Series

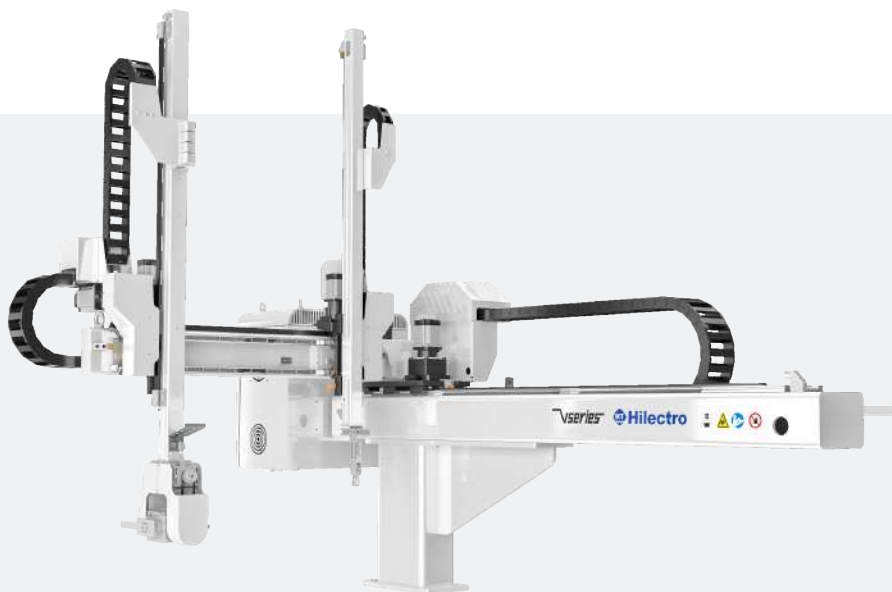
Full-servo single-cut suspension

Suitable for 60-470t IMM

More efficient

More stable

Faster



### Basic parameters

Model	Unit	Arm form	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	-	-	ton	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
V-800IS	Single-cut suspension	40-250	1.2	AC single-phase 200V±10% 50/60HZ	4.5	0.49	2.1	Full servo drive	1.66	6.52	8	13	295	
V-800HS	Single-cut suspension	40-250	2.1		4.5	0.49	2.1		1.66	6.52	8	13	320	
V-900IS	Single-cut suspension	250-380	1.2		4.5	0.49	2.1		1.68	6.7	8	13	305	
V-900HS	Single-cut suspension	250-380	2.1		4.5	0.49	2.1		1.68	6.7	8	13	335	
V-1000IS	Single-cut suspension	380-470	1.2		4.5	0.49	2.1		1.7	7	8	13	310	
V-1000HS	Single-cut suspension	380-470	2.1		4.5	0.49	2.1		1.7	7	8	13	340	

### Product features

The V series is a high-performance model, and the whole machine is made of steel, which is more stable.

The same model has a higher load and faster speed.

The operating system is simple and the learning cost is low.

The linear bearings which can withstand high-speed movements and ensure low friction, high rigidity and high precision are used front and rear axles.



Home appliance industry

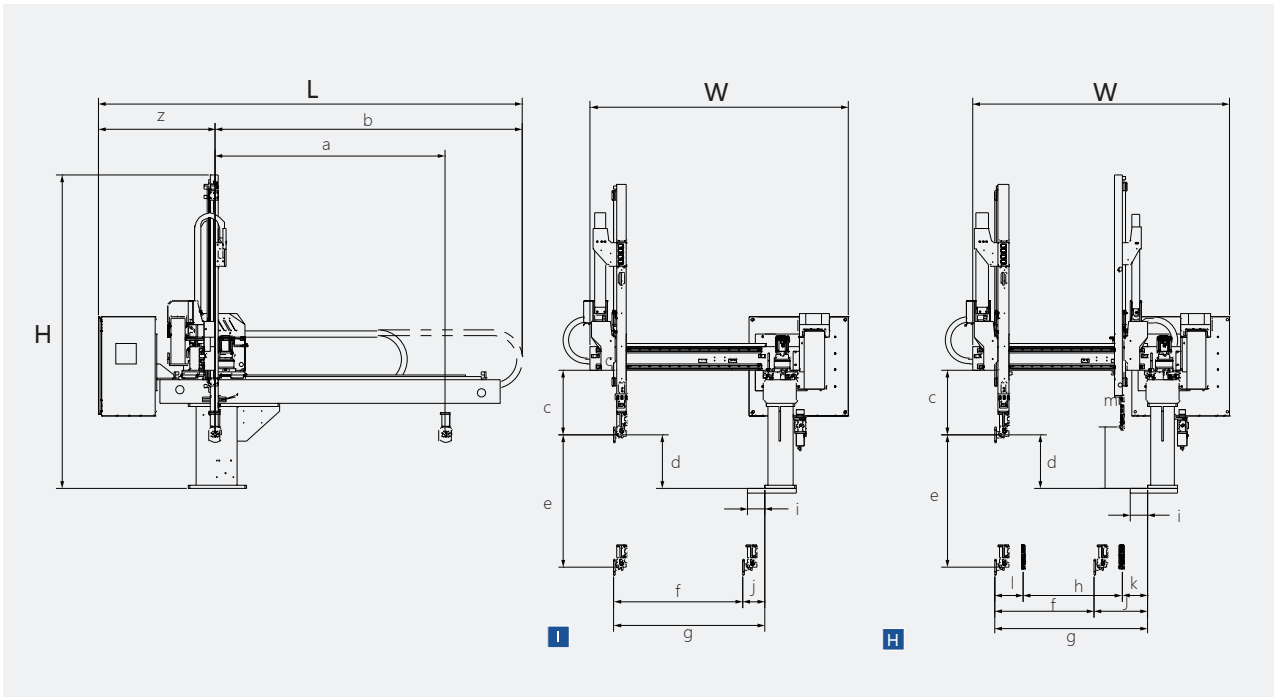


Civil goods industry



Toy industry

Size parameter



图示	软件	V-800		V-900		V-1000	
		V-800IS	V-800HS	V-900IS	V-900HS	V-1000IS	V-1000HS
L	L	2570	2570	2750	2750	2750	2750
W	W	1570	1570	1570	1570	1570	1570
H	H	1910	1910	2080	2080	2200	2200
a	X	1400	1400	1600	1600	1600	1600
b	L2	1863	1863	2043	2043	2043	2043
c	Z1	391	391	391	391	391	391
d	Z5	320	320	370	370	370	370
e	Z	800	800	900	900	1000	1000
f	Y	790	600	790	600	790	600
g	Y+Y1	900	900	900	900	900	900
h	Y4	/	600	/	600	/	600
i	Y5+Y2	100	100	100	100	100	100
j	Y1+Y2	110	300	110	300	110	300
k	Y5	/	150	/	150	/	150
l	Y3	/	150	/	150	/	150
m	Z5	/	365	/	415	/	415
z	L1	690	690	690	690	690	690

# V-I(H)D

## Middle Model Series

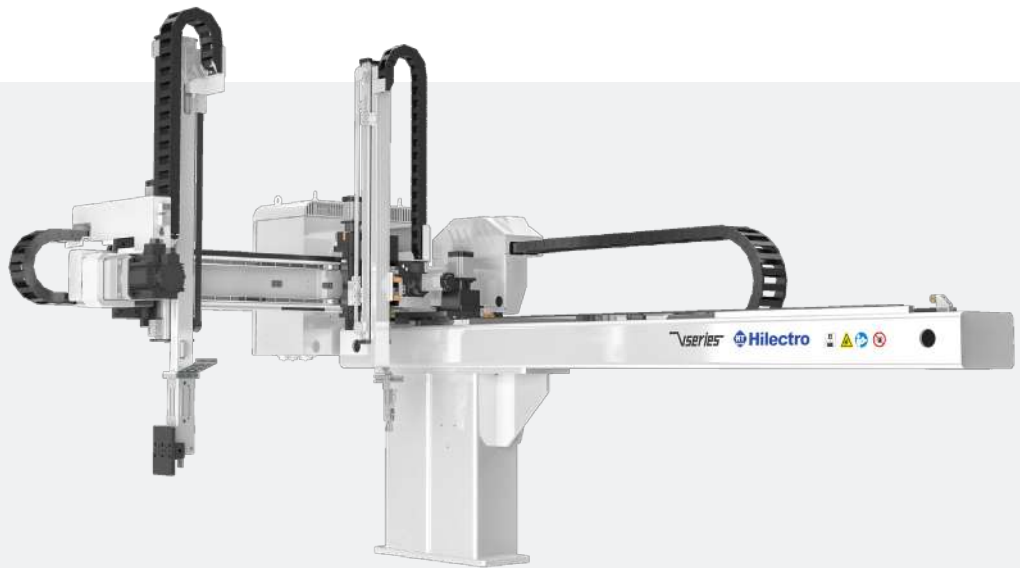
Full-servo double suspension

Suitable for 380-130t IMM

More efficient

More stable

Faster



### Basic parameters

Model	Unit	Suitable IMM	Power consumption	Power	Power supply capacity	Air pressure	Air consumption	Driving mode	Minimum pickup time (maximum load)	Full cycle time (excluding fixture)	Maximum load (including fixture)	Posture moment	Body weight
	Arm form												
V-1100ID	Double-cut suspension	380-530	2.1	AC single-phase 200V±10% 50/60HZ	4.5	0.49	1.1	Full servo drive	2.84	7.78	12	8.8	295
V-1100HD	Double-cut suspension	380-530	2.9		4.5	0.49	1.1		2.84	7.78	12	8.8	320
VS-1100ID	Double-cut suspension	380-530	6.02		6.0	0.49	8.7		0.86	3.81	2	5	660
V-1300ID	Double-cut suspension	530-700	2.1		4.5	0.49	1.1		3.42	8.23	12	8.8	305
V-1300HD	Double-cut suspension	530-700	2.9		4.5	0.49	1.1		3.42	8.23	12	8.8	335
VS-1300ID	Double-cut suspension	530-700	6.02		6.0	0.49	8.7		0.91	3.96	2	5	680
V-1500ID	Double-cut suspension	700-1000	2.0	AC triple-phase 200V±10% 50/60HZ	5.0	0.49	6.7		3.61	12.7	20	45	850
V-1500HD	Double-cut suspension	700-1000	2.1		5.0	0.49	6.7		3.61	12.7	20	45	890
V-1700ID	Double-cut suspension	1000-1300	2.0		5.0	0.49	6.7		3.61	12.7	18	46	865
V-1700HD	Double-cut suspension	1000-1300	2.1		5.0	0.49	6.7		3.61	12.7	18	46	905

### Product features

>The V series is a high-performance model, and the whole machine is made of steel, which is more stable.

>The same model has a higher load and faster speed.

>The operating system is simple and the learning cost is low.

>The linear bearings which can withstand high-speed movements and ensure low friction, high rigidity and high precision are used front and rear axles.



Home appliance industry

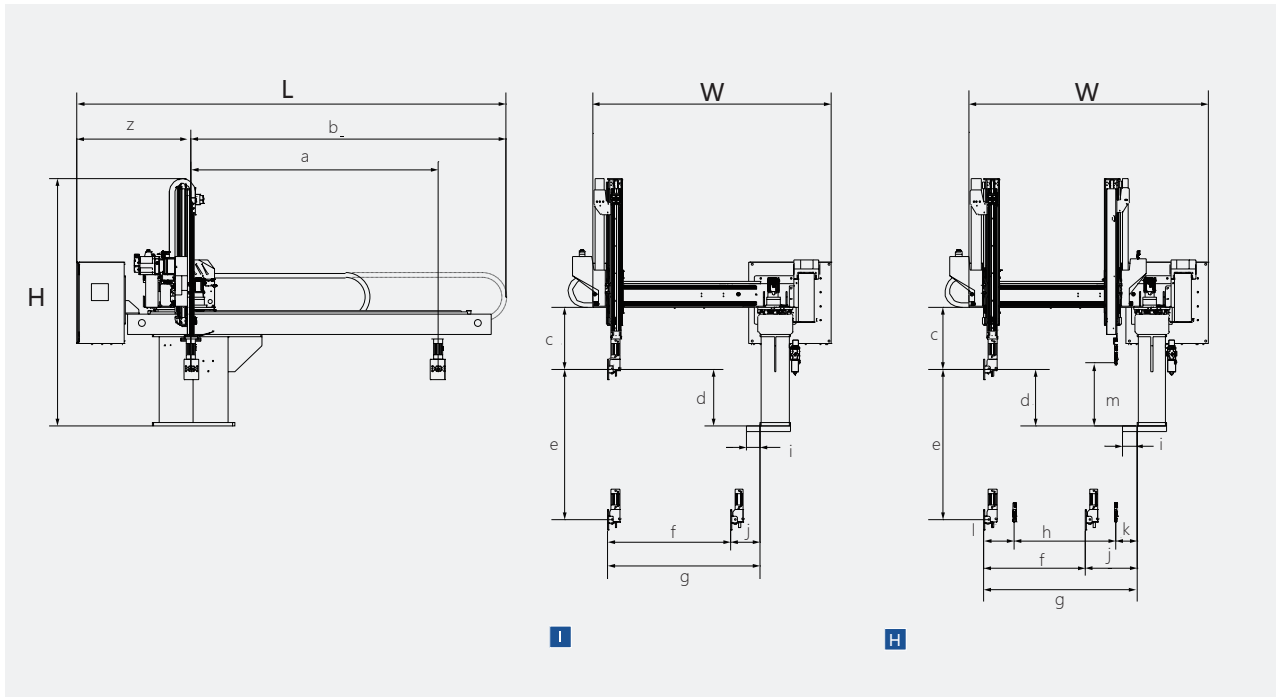


Civil goods industry



Toy industry

Size parameter



Legend	Software	V-1100			V-1300			V-1500		V-1700	
		V-1100ID	V-1100HD	VS-1100ID	V-1300ID	V-1300HD	VS-1300ID	V-1500ID	V-1500HD	V-1700ID	V-1700HD
L	L	3100	3100	3070	3340	3340	3250	3990	3990	3990	3990
W	W	1780	1777	1750	1780	1780	1750	2260	2260	2260	2260
H	H	1830	1790	1800	1950	1950	1920	2400	2400	2520	2520
a	X	1800	1800	1800	2000	1800	2000	2500	2500	2500	2500
b	L2	2226	2226	2270	2226	2226	2510	3075	3075	3075	3075
c	Z1	410	410	390	410	410	390	580	580	580	580
d	Z5	410	410	410	410	410	410	490	490	490	490
e	Z	1100	1100	1100	1300	1300	1300	1500	1500	1700	1700
f	Y	880	650	700	880	666	700	1280	1055	1280	1055
g	Y+Y1	1118	1118	900	1118	1118	900	1530	1530	1530	1530
h	Y4	/	666	/	/	666	/	/	1055	/	1055
i	Y5+Y2	100	100	/	100	100	/	100	100	100	100
j	Y1+Y2	218	452	200	218	452	200	250	475	250	475
k	Y5	/	152	/	/	152	/	/	250	/	250
l	Y3	/	295	/	/	295	/	/	225	/	225
m	Z5	/	460	/	/	460	/	/	495	/	495
z	L1	871	871	/	871	871	/	708	708	708	708



# XTC

## Vertical Series

The injection molding machine is taken out vertically to increase the utilization rate of the plant area.  
Product is under assembly line production



### Main specification

XTC-800	Suitable for 60-250t
XTC-900	Suitable for 250-380t
XTC-1100	Suitable for 380-530t
XTC-2000	Suitable for 1600-4000t

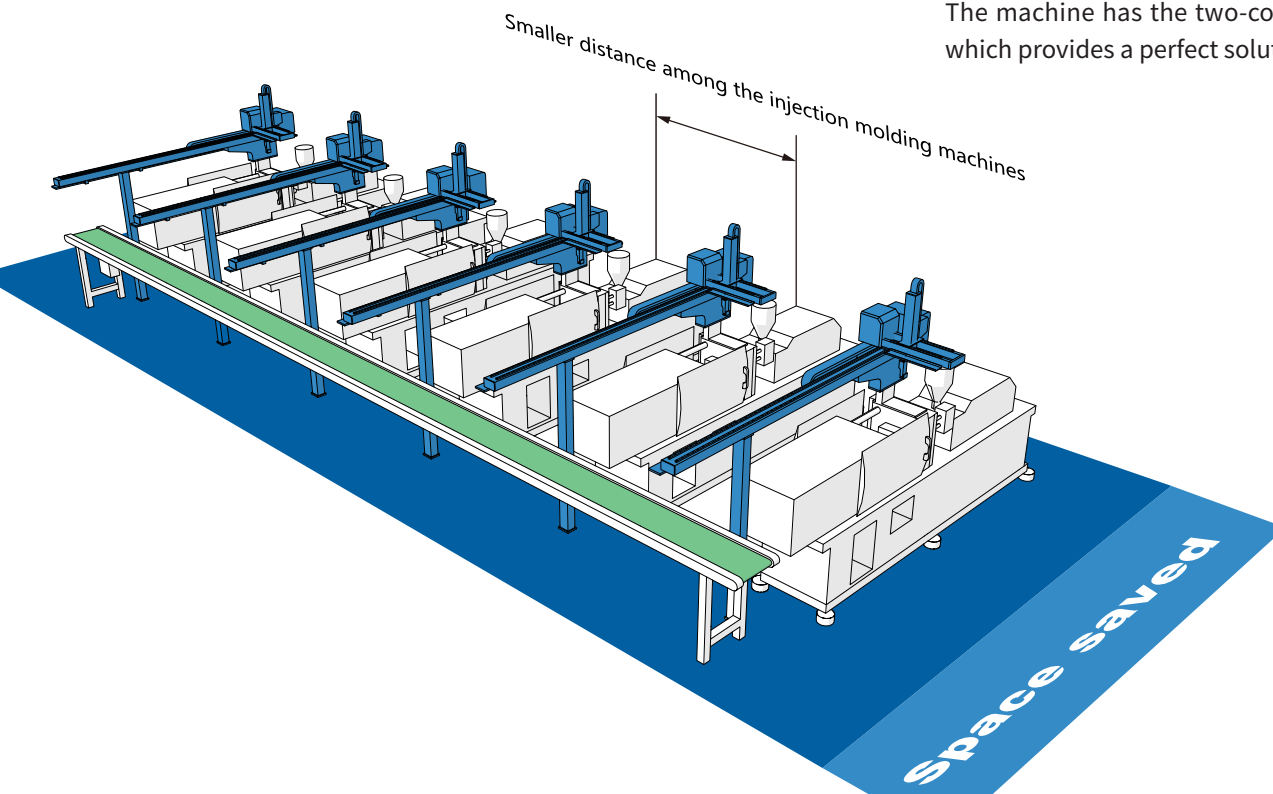
\* Please check the product leaflet for specific parameters

## More efficient

XTC longitudinal taking machine is introduced, which improves the utilization rate of the plant, saves the branch conveyor belt, and makes use of the production line.

Compared with the horizontal taking machine, the space utilization rate of the vertical taking machine is increased by 20%.

The machine has the two-color machine system, which provides a perfect solution.







# XTS

## Side Take Series

Fast food box side taking machine



## Faster

XTS series side-take manipulator is developed for the disposable lunch box industry. This series of manipulators can be competent to take out and stack the fast food box products once with the high-speed injection molding machine, which meets the production demand of the industry and improves the production efficiency.

Model	XTS series high-speed side-take manipulator
IMM	Suitable for 150-480T
Pickup object	Fast food box/water cup for high-speed forming products
Number of servo axes	Triaxial
Cycle	3.5-5s
In-mold time	0.5s

41/42





# XTSL/D/DL

## Labeling Series

In-mold labeling model

### Main parameters

Maximum speed	3.6m/s
In-mold time	1.6s
Empty cycle time	3.5s
Drop rate	1 <sup>0</sup> / <sub>100</sub>

Please check the product leaflet for specific parameters





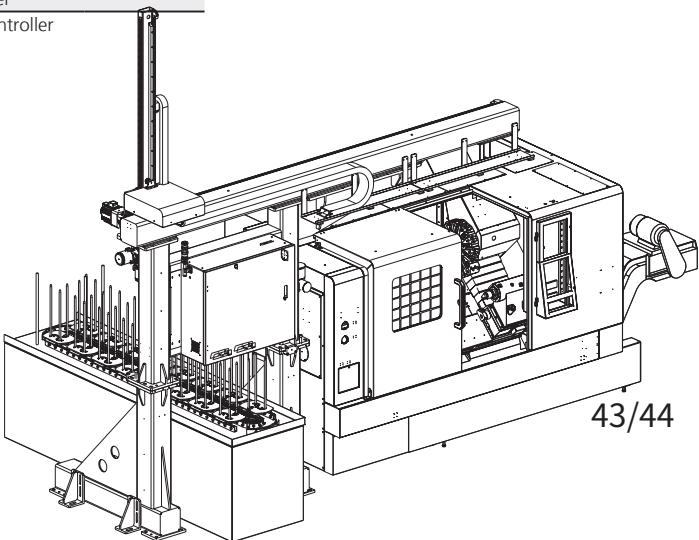


**XTH**  
**Machine Tool Series**  
 Machine tool machining  
 model

## Meet injection molding machine and machining integration

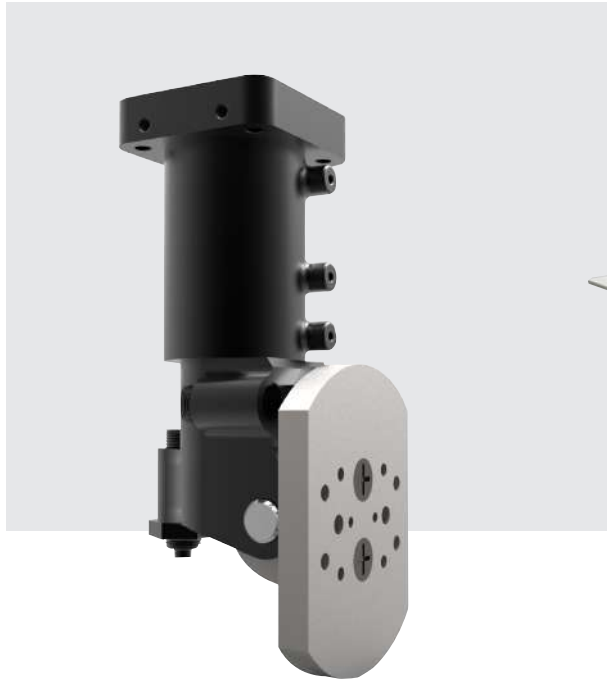
The XTH series is an all-in-one truss robot used in machine tool industry. This series of machines adopt the layout of “one with two”, that is,, one robot can complete the automatic loading and unloading of two machine tools, so it is especially suitable for the occasions with short processing beat and large batch production.

	Parameter			
Model	XTH003	XTH005	XTH010	XTH015
Maximum clamping weight	1.5kg*2	2.5kg*2	5kg*2	7.5kg*2
Repeat positioning accuracy	±0.05mm	±0.05mm	±0.05mm	±0.05mm
X-axis maximum speed	130m/min	130m/min	130m/min	130m/min
Z-axis maximum speed	100m/min	100m/min	100m/min	100m/min
Drive method	Servo + reducer			
Control system	Robot dedicated controller			





# Manipulator end extension



All-in-one flip

Suitable model	Load (kg)
800	4
1100	8



AC axis

Suitable model	Load (kg)
1100	8
1500	30
2000	40



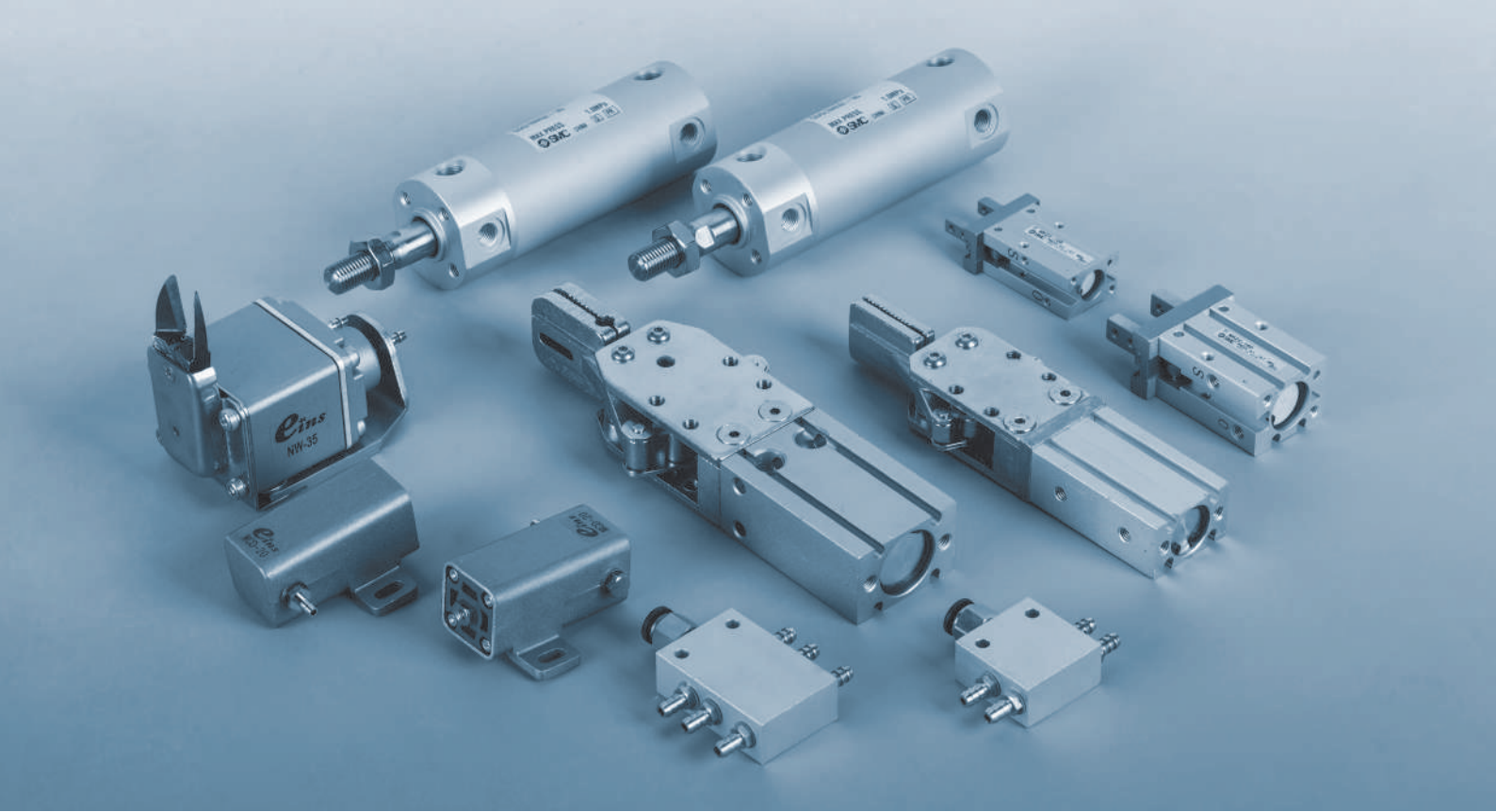
### B axis

Suitable model	Load (kg)
1100	8



### C axis

Suitable model	Load (kg)
800	8
1100	8
1500	15
2000	30
2500	40/60



## Quality accessories Excellent quality

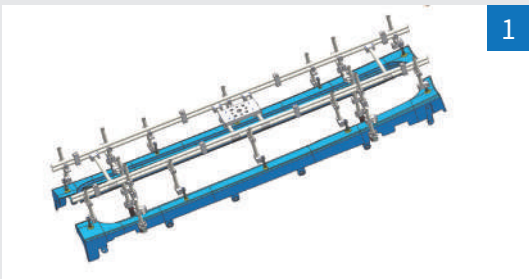
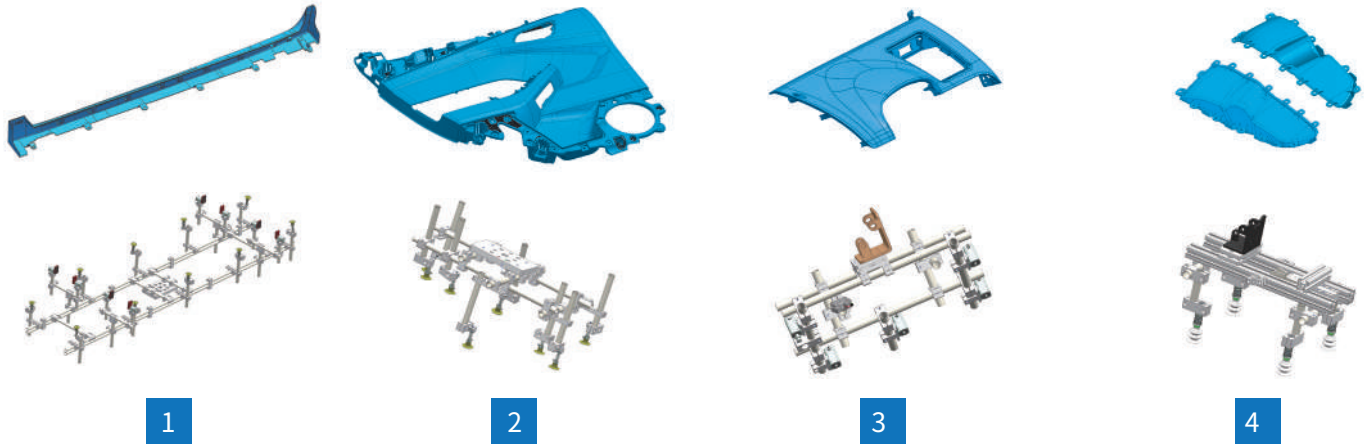
Branded servo motor and driver  
Branded pneumatic components  
High quality hardware and sucker

High end products come from the excellence of details. Pneumatic components, electrical components, etc. are imported from Japan and Germany, with stable and reliable quality. The mechanical parts made of high-quality steel and plates at home and abroad are processed and formed by high-precision processing equipment, so as to create perfect products in an all-round way.



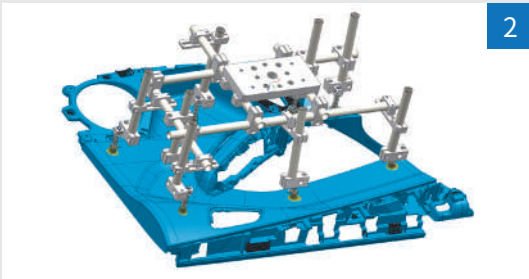
# Fixture scheme

## Scheme of end fixture for manipulator



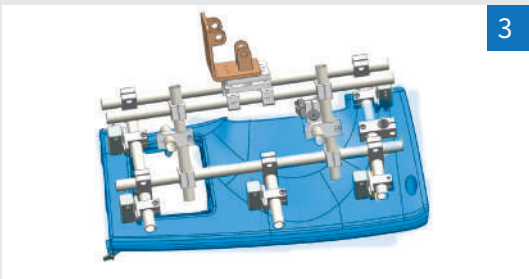
1

Note: the product is slender with a certain arc. Stainless steel pipe is used as the frame, which can meet the requirements of rigidity and strength, and adjust the adsorption angle of the sucker to achieve the parallel adsorption effect between the sucker and the product surface. The cylinder is used to assist in holding the rib of the product and making the product more stable.



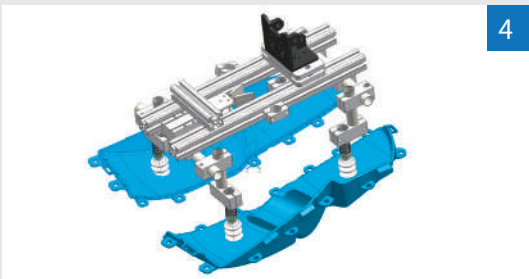
2

Note: the surface of the product is irregular, with large radian change. The stainless steel tube is used as the frame, and the connecting piece is used to adjust the suction angle of the sucker, so as to achieve the ideal effect of parallel adsorption.



3

Note: the surface of the product is irregular, and the stainless steel tube is used as the frame. At the same time, the ejection distance of the product mold is limited, and the adsorption holding cylinder is used when the product is pushed out, so as to achieve the active adsorption function of the fixture. The auxiliary nozzle clamps the product material handle.



4

Note: although the product has irregular surface, there are two parallel surfaces that can be adsorbed, so aluminum profile is used as the frame, which is rigid and stable. The auxiliary clamp clamps the flow channel of two products, and the photoelectric signal opens to detect the signal point.

# Optional configuration

Configuration name	Description
Manipulator down standby	Before mold opening, the fixture is lowered near the mold to stand by, which effectively shortens the take-out cycle time, and the standby position can be set arbitrarily.
Forward and take-out side posture control	The vertical strip products can be taken out and transported through posture actions above the safety door.
Posture control during traveling	Avoid the obstacles on the mold and the interference of the walking axis, and the front and back positions of posture actions can be set arbitrarily.
Production management	The posture return action is performed at the same time as the walking return starts in the posture movement during walking, which shortens the entire cycle time. The following by can be achieved by setting the production status of the production product: the production quantity and actual production performance can be confirmed, the estimated time for the end of production can be predicted and displayed, and the setting of initial molding product discharge, sample action (sampling inspection), and automatic stop at the end of production can be realized.
Maintenance	It displays the time and items of regular inspection, as well as the oil filling time of the oil filling point of each axis. It is possible to log in and confirm regular inspection records and oil filling records.
CF card function / U disk	The set conditions of the manipulator (mode, time, axis position and packing) are taken as the cycle data for internal memory management, and the short time processing of inputting, writing, comparing and deleting is realized.
Suction confirmation unit	It is equipped with a set of standard vacuum generating unit.
Glue falling on the way	In the case of a 3-plate mold, the glue will open during walking.
Packing	Through the linkage of the conveyor belt and the packing machine, the product is packed.
Alarm recording function	The machine has the function of memorizing and recording the alarm situations that occurred in the past.
WEB function	The machine has the function of memorizing and recording the alarm situations that occurred in the past.
NC step program	For NC step program, you can edit the program with the predetermined insertion points, and add the necessary actions by using the operator.
Simple NC step setup	NC step program can be set simply. The insertion position can be specified in the step operation. The NC key point and time name can be changed.
Connect to the computer	After installing the program on the computer, connect the communication line, transfer the data, print and edit the program in advance.
Energy saving	Energy saving mode
Storage function	Energy saving mode
European regulations	Energy saving mode
Middle plate mold inspection	Under the closing of the 2-plate molds, check whether the middle plate is safely opened in place
Language switch	Chinese/Japanese switch



# Optional configuration

Configuration name	Description
Discharge of defective products	Move the unqualified products to another place to save manpower.
Fixed and movable switch	The standard machine takes out the product from the mold on the movable side. After the fixed and movable switch is added, if it is switched to the fixed side, the product can be taken out of the mold on the fixed side.
Out-of-mold standby	When the mold opening is not completed, such as when obstacles on the mold interfere with the manipulator or the fixture plate, make the arm stand by outside the mold on the way back and wait for the completion of the mold opening.
Free packing point	The open position of products can be set at will. Up to 1024 points (MAX256 points for 1 stage) can be set.
Slip-out circuit	This function is needed to remove the product from the mold with sliding structure. If this function is added, the product can be held in the mold, and the product can be taken out through the sliding of the fixture.
Glue-cut free displacement	In the case that it is not possible to cut directly, the double-circuit function of the tool can be used to shift first and then cut.
Multi-point open of products	Carry out the product 1-4 point opening action, give the corresponding confirmation signal and change the product fixture to 4 circuits
Cut circuit in fixture	Under the automatic operation, the fixture will perform the shearing action after waiting for the product to be placed in the place of the product placement.
Mold closing during ascent	Start to close the mold on the way of rising in the mold, so as to shorten the closing time and shorten the cycle period.
Mold opening during descent	In the process of mold opening, the arm of the manipulator is put into the mold, so as to shorten the time of pickup and the cycle period.
Rotary function	The clamp plate can be rotated. You can select the position where the rotation action occurs inside the mold, outside the mold, and the drop side.
Alarm light	When the manipulator has an alarm (abnormal), the alarm light will be on.
Automatic replacement of fixture circuit	Quick plug-in replacement fixture circuit
European regulations	European regulation 67
Language switch	Chinese/English switch
Combination of multiple suction and clamping circuits	With 4 sets of vacuum circuits and 2 sets of fixture circuits, the actions can be divided into random combinations

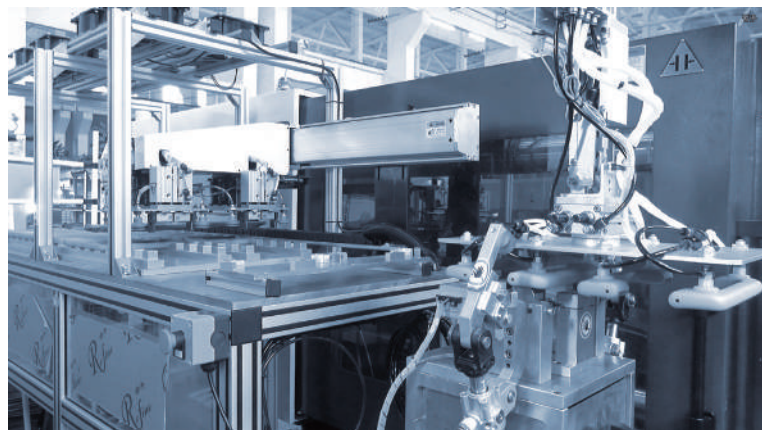


## Automation scheme

Upgrade production line for you  
More intelligent  
More efficient  
More stable

Professional automation scheme provider

- Manipulator automation
- Robot automation
- Segment industry and market



▲ Trim, shape and finish car door handle



▲ Pick up, merge and arrange switch relay





### Automobile interior

- ◀ IMD process of automobile interior



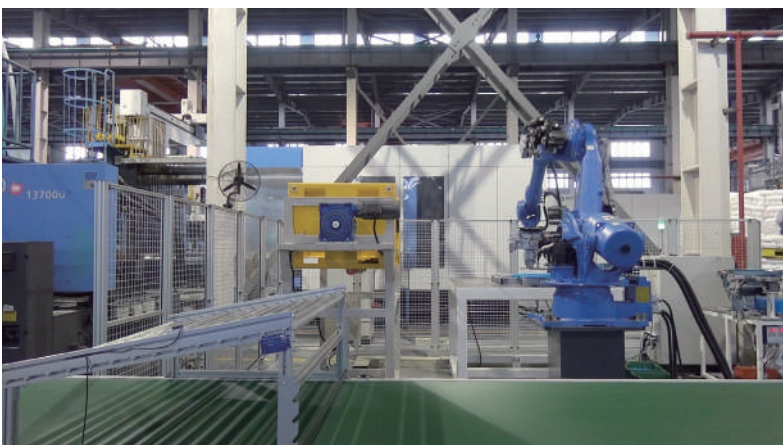
### Automation Bumper

- ◀ Robot pick-up, flame, pruning, laser marking



### Automobile B and C pillar

- ◀ Robot upper side pick-up, laser cutting, double-layer production line



### Pallet industry

- ◀ Robot trims the material head, inserts, and flips

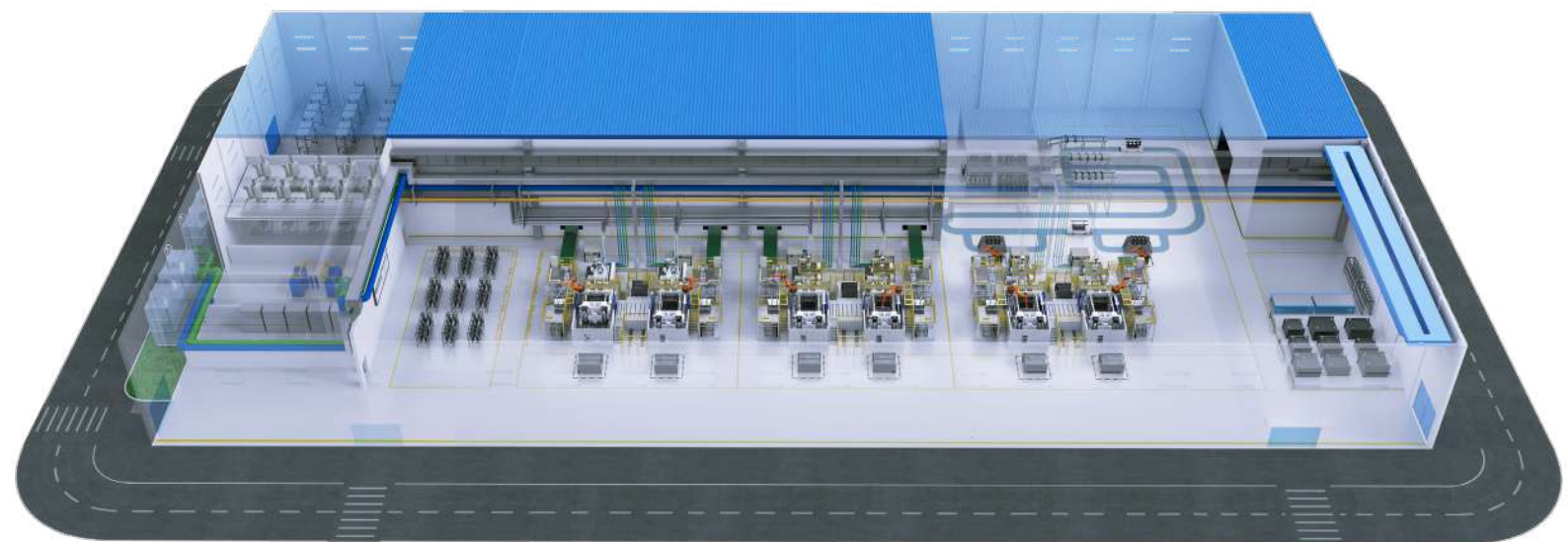




## Centralized feeding system Assembly line production

Build a modern chemical plant for you

**More reasonable**  
**More intelligent**  
**More efficient**







### Small appliance industry

- ▶ XTC longitudinal manipulator
- ▶ Centralized transportation of conveyor line
- ▶ Planning of new plant with centralized material supply



### Civil goods industry

- ▶ Centralized transportation of conveyor line
- ▶ Centralized feeding



### Home appliance industry

- ▶ XTC vertical manipulator
- ▶ Centralized transportation of conveyor line



### Automobile industry

- ▶ Manipulator automation
- ▶ Robot automation
- ▶ Centralized feeding for the whole plant