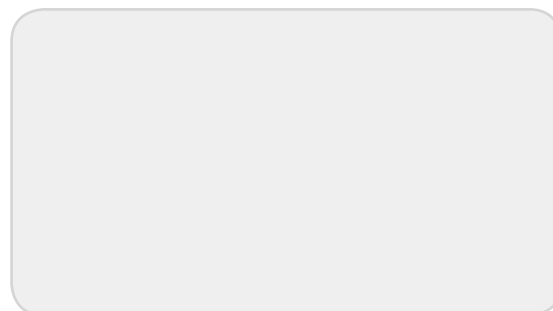




**Hilectro Automation**  
Servo Manipulator  
Leader of Automation Solution

2018

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.

201810





## PROFILE

### About Haitian Drive

Ningbo Haitian Drive Systems Co., Ltd. is one of the five pillar industries of Haitian Group. Relying on the advantages of Haitian Group platform, Haitian Drive has grown to be the leading manufacturer in the fields of servo control system (servo motor, servo drive, control system), automation (servo manipulator and peripheral automation, robot automation, magnetic clamping system, functional components), new energy (electric forklift) and hydraulic transmission (hydraulic motor, hydraulic pump and hydraulic components).

### Haitian Drive: Innovation Drives Future

Haitian Drive put forward the "Innovation Drives Future" as the company philosophy in the very beginning based on the management of Haitian Group. We improve the product quality and try to perfect the technical service by continuous innovation with the aim of enhancing the overall competitiveness in the market. We firmly believe that products with superior quality can win more customers whose competitiveness will be enhanced in the meantime.



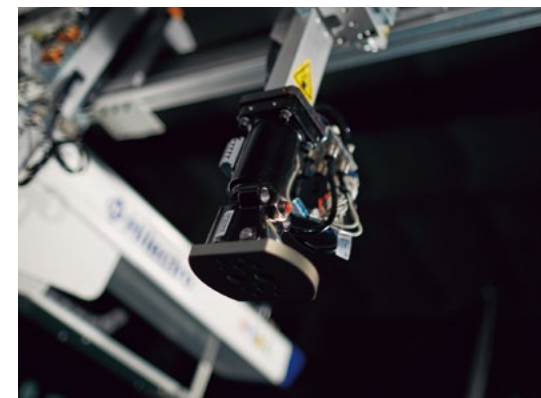
Innovation Drives Future



## BRAND

### Professional Manipulator Manufacturer

The professional manipulator R&D team in Hilectro has brought increasingly competitive products for the customers. With the design concept of high efficiency and energy saving, With years of fast development, Hilectro manipulator has been recognized by many customers for excellent quality and superior after-sales services.



### Automation Solution Leader

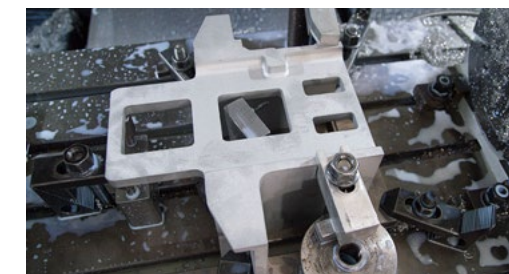
Hilectro can not only develop and produce superior manipulator, but also provide customers with complete automation solutions. With the coming of industry 4.0, increasing number of customers expect more for automation during production. Therefore, Haitian Drive set up a specialized automation team to provide professional automation solutions to the customers.







Processing Advantage

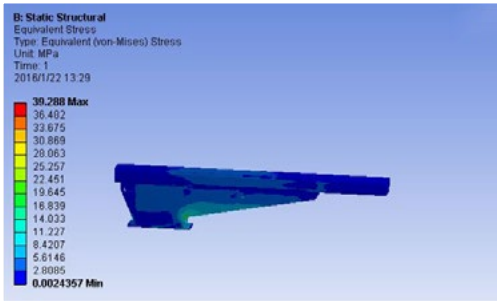
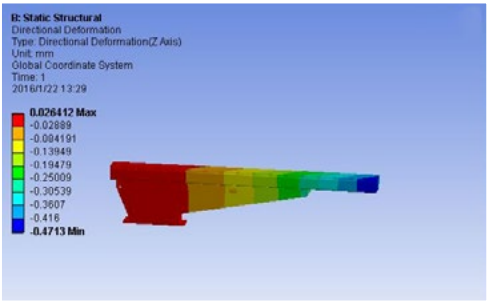


Exquisite Processing ensures superior quality

Innovation Drives Future



Focus on Quality



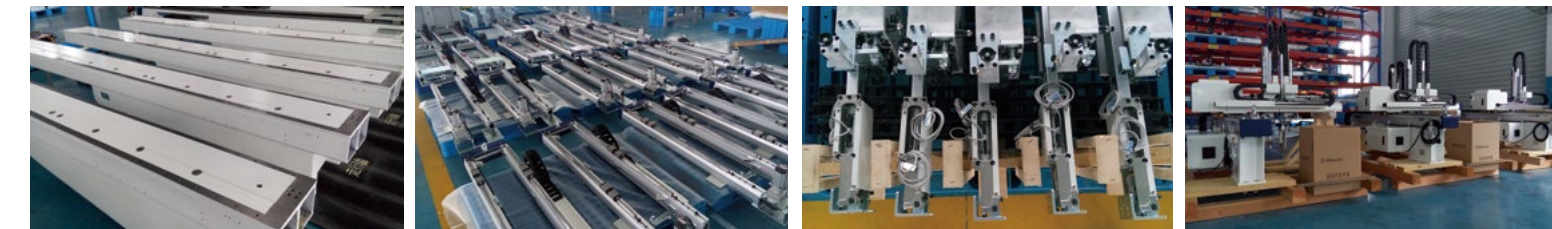
CAE  
Structure  
Optimization

Optimize the structure  
by professional software



▲ Professional Assembly Line

▼ Component Management for Production



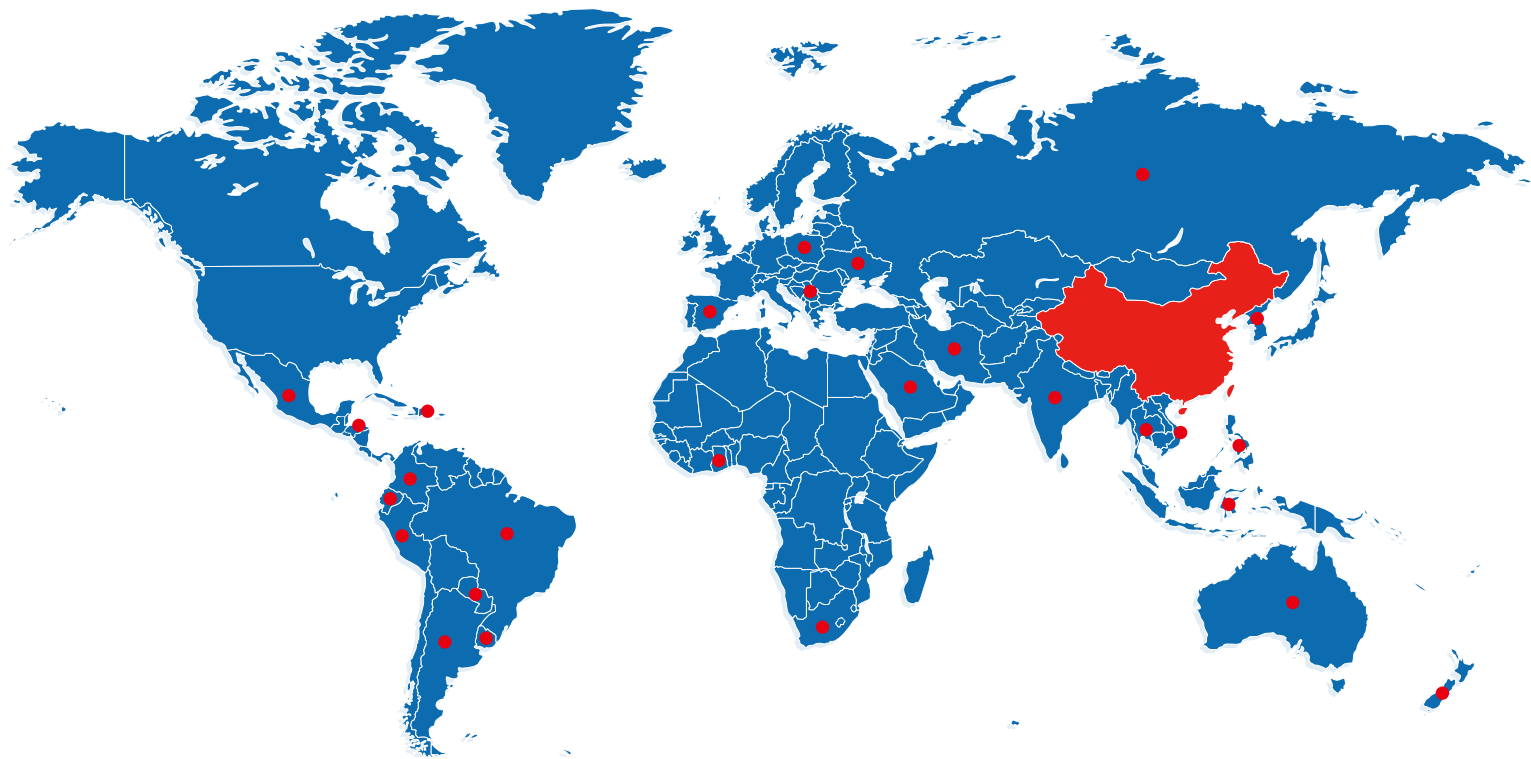


First-rate service



完善的服务网络

# Global Sales and Services Network



## Equipment upgrade

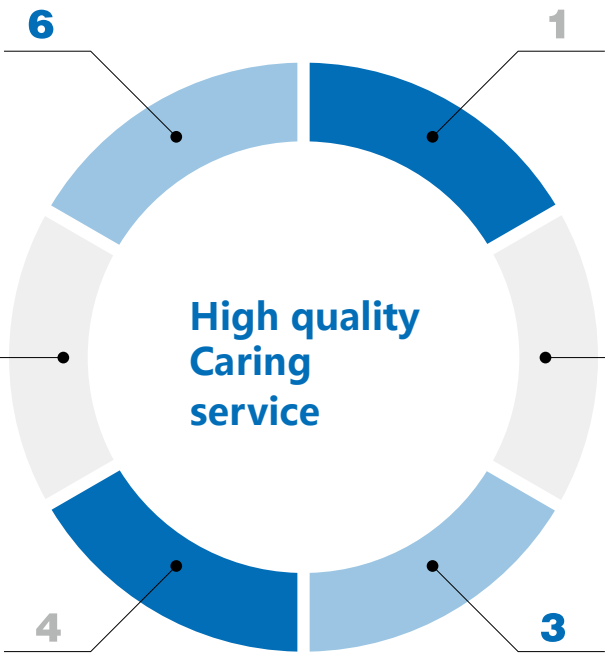
Provide systematic service -for upgrading hardware and software to extend the service life of equipment.

## Regular return visit

Establish CRM management system for each device including file management, and do regular return visit to provide professional guidance and considerate service.

## Systematic training

Provide free installation and commissioning for new machine, and systematic training for operation, maintenance and fixture instruction.



## 1 Improve the before-sales service

To provide you the selection in advance, automatic solutions, advice on factory workshops adjustment.

## 2 24 hours service

Register and provide door to door after-sales service within 24 hours after receiving notice.

## 3 Lifelong maintenance

Lifelong maintenance is guaranteed with one year free of charge, and provide professional product recommendation and maintenance services with high speed.

National Free Service Hotline  
4001 533 588

Depending on the advanced platform of Haitian Group, Hilectro has developed a powerful and all-round sales and service network. Haitian Group has more than 80 agencies in the world, covering more than 130 countries and regions, ensuring customers with efficient and high-quality services.



**01** Controller 13-14



**02** GA/GB manipulator 15-18  
GA-I/HD,GB-I(H)D,GA-I/HS,GB-I(H)S,



**03** Single \ two \ three axis servo manipulator 19-24  
XTB-I/HD,XTE-I(H)D , XTF-I(H)D



**04** Full servo small and medium-sized manipulator 25-30  
XTA-I/HS ,XTA-I/HD



**05** Full servo manipulator 31-32  
XTA-I/HD



**06** Fully open servo manipulator 33-34  
XTD-ID



**07** Special manipulator 35-38  
XTC , XTS , XTH , XTSL/D/DL



**08** Other introduction 39-44  
At the end of inversion, fixture case, standard configuration



**09** Automation projects 45-49  
Feed, robot manipulator automation, automation, automation of periphery



**XTA – 3000 t HD – T<sub>1</sub>**

T : special machine code (T1, T2)  
CE : CE machine  
h : high speed machine  
B : walking single servo model

ID: telescopic type-arm  
HD: telescopic type-dual arms  
IS: single stage-arm  
HS: single stage-dual arms

Double main arm type

3000 : up and down stroke 3000mm

XTA: full servo series  
XTB: single axis servo series  
XTC: longitudinal series  
XTD: open series  
XTE: two axis servo series  
XTS: side take series  
XTH:truss series (CNC machine tool industry)

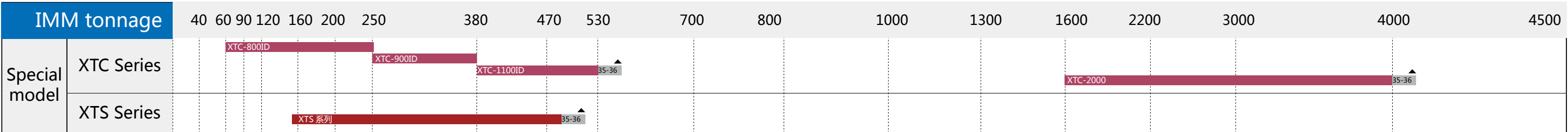
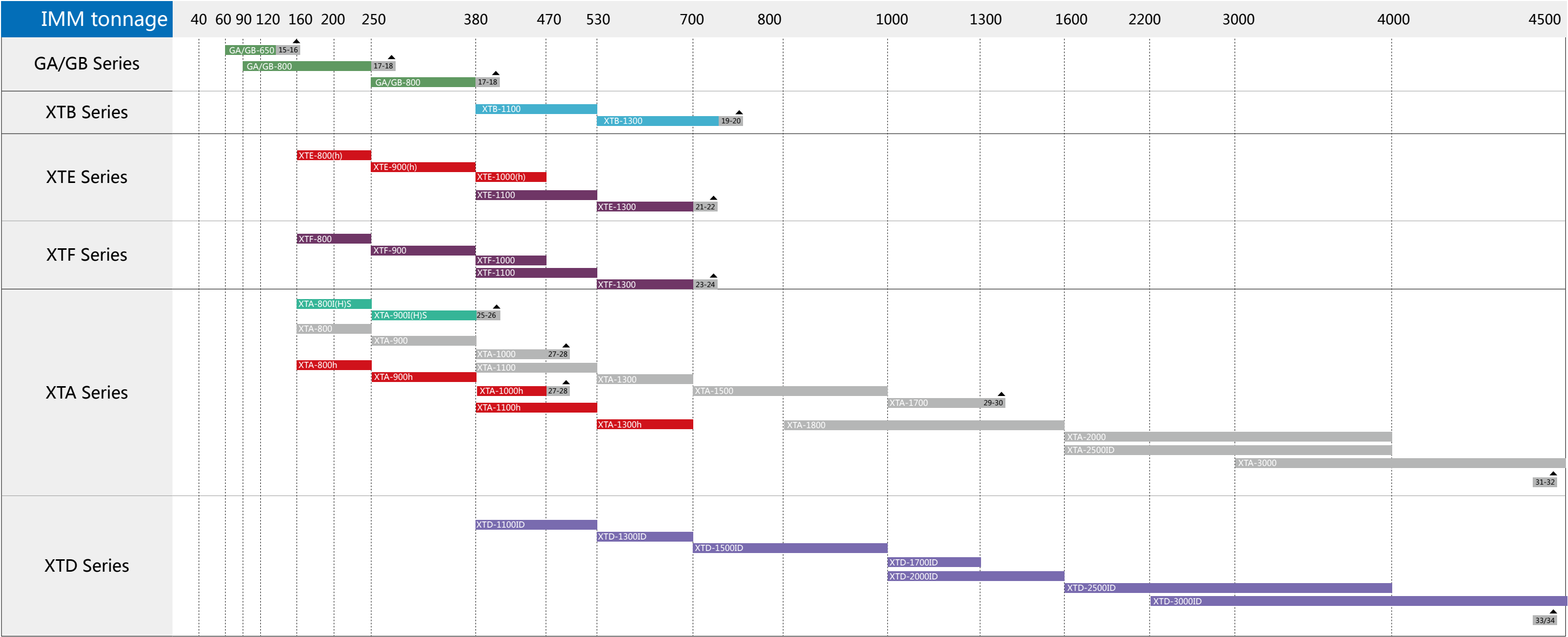
Industry certification

EAC CE





## Fit injection molding machine



This list is to help users understand the selection of mechanical manipulator, and pls call for new inquiries and questions on parameters according to different requirements of different projects.



# Advanced control system

Innovation Drives Future



## Controller Features

- > Embedded real-time system, high integration, high reliability, high scalability.
- > Color touch screen, graphical interface, simple operation (3.2 inch, 5.7 inch, 7 inch)
- > Using Euromap12 standard, host and manipulator signal security chain. ( OP: Euromap67 )
- > The opening function of the middle opening, the opening position and the order of the nozzle can be set.
- > Air pressure detection function, can monitor the intake pressure and adsorption pressure, and display the pressure value
- > Packing list function: standard features (256 points)
- > Teaching mode has a fixed mode and free mode optional
- > Super memory capacity
- > The position of the robot arm can be outside the mold.
- > Can remember the program, can support USB offline editing
- > Can automatically detect the fault situation and display in the screen



3.2 英寸

XTB-1100 I(H)D  
XTB-1300 I(H)D  
XTE-800 I(H)Dh  
XTE-900 I(H)Dh  
XTE-1000 I(H)Dh

1, suitable single axis servo/biaxial servo models  
2, the optional electric level



5.7 英寸

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  
XTD-1100ID  
XTD-1300ID

\*the hand operator is used throughout the servo models



7 英寸

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-1500 ID  
XTD-1700 ID  
XTD-2500 ID  
XTD-3000 ID

\*mall models can be purchased in accordance with the requirements of 7 inch hand operator



Full touch screen hand device  
CE/UL model, part of the OP  
Models / 6 axis above models

## 手操器



Independent control system, and Haitian injection molding mechanical control  
Deep integration, provide human nature to change more.



GA/GB  
650 Series

Single suspension

Fit 90 - 120t IMM  
More efficient  
More stable



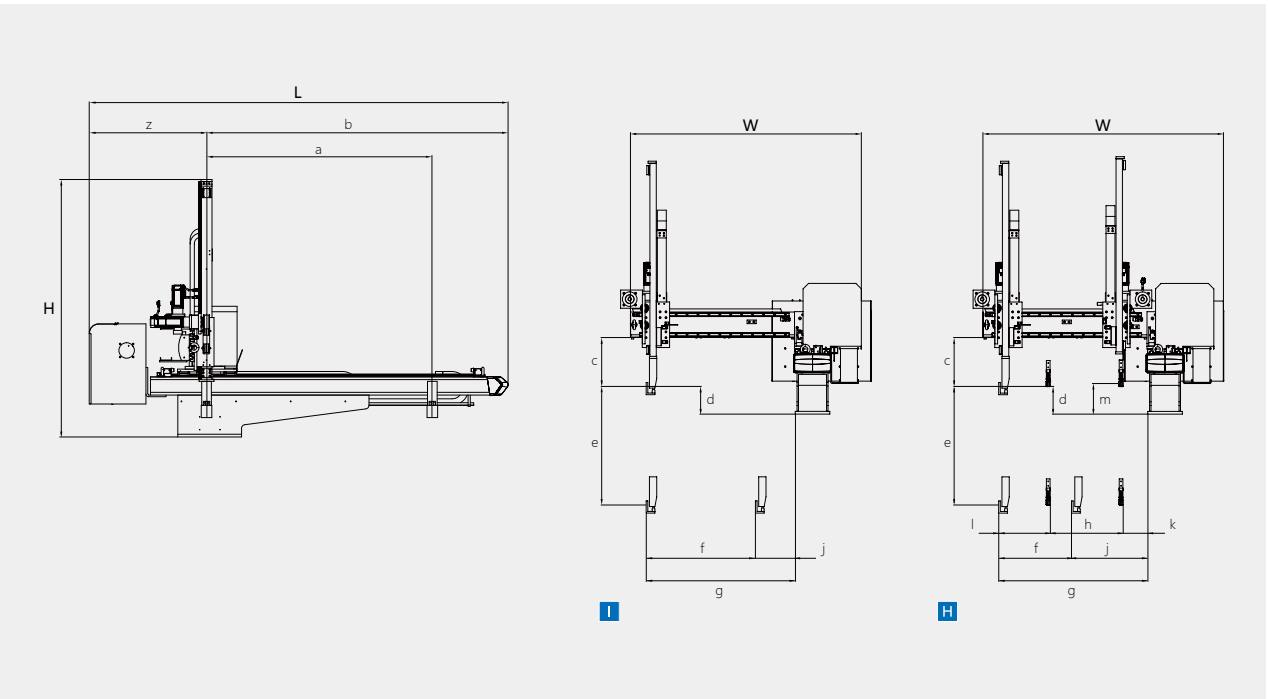
Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GA-650I(H)S	Single-cut suspension	-	90-120	2480	1385	1400	0.7	AC single-phase 200V±10% 50/60HZ	3	0.49	2.06	Full servo drive	1.70	5.61	4	5	280
GB-650I(H)S			90-120	2450	1275	1540	0.7		1	0.59	15.2/25.4	Servo drive of walking axle Cylinder drive of other axles	4.25	10.1	4	5	220

Characteristics of product

- > GA/GB series models, the structure is more lightweight design, more energy efficient.
- > simple operating system, the learning cost is low.
- > front axle adopt linear guide, affordable high-speed movement, to ensure that the low friction,High rigidity and high precision.

Size & Data



Type	GA-650		GB-650		Type
	GA-650IS	GA-650HS	GB-650IS	GB-650HS	
a	1400	1400	1400	1400	a
b	1820	1820	1800	1800	b
c	275	275	260	260	c
d	145	145	160	160	d
e	650	650	650	650	e
f	575	370	730	565	f
g	800	800	850	850	g
h	-	370	-	565	h
i	-	-	-	-	i
j	225	430	120	285	j
k	-	145	-	110	k
l	-	285	-	175	l
m	-	152	-	150	m
Remark					Remark
Explanation	Products side cylinder stroke before and after 300, the gate side cylinder stroke before and after 200.				



Household appliance



Civilian



Toy



GA/GB  
800 Series  
Double joint  
suspension

Fit 60 - 380t IMM  
More efficient  
More stable



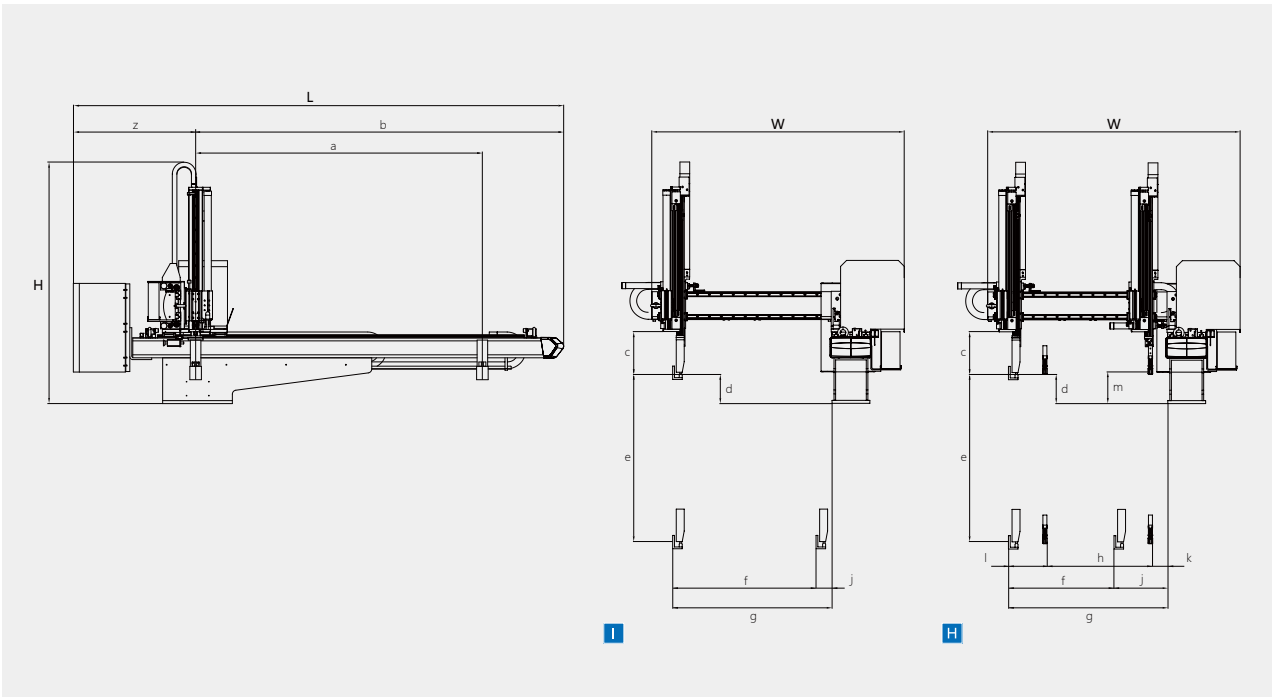
Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
GA-800I(H)D	Double-cut frame		60-250	2450	1420	1200	1.2/2.1	AC single-phase 200V±10% 50/60H	3	0.49	2.2/2.2	Full sever drive	1.68	6.0	4	5	300/330
GA-900I(H)D			250-380	2700	1325	1340	1.2/2.1		3	0.49	2.3/2.3		1.75	6.3	4	5	310/340
GB-800I(H)D			90-250	2500	1270	1200	0.7		1	0.59	16.4/27.5	Servo drive of walking axle Cylinder drive of other axles	4.7	10.9	4	5	280/300
GB-900I(H)D			250-380	2700	1270	1320	0.7		1	0.59	17.6/30.0		5.0	11.3	4	5	290/310

Characteristics of product

- > GA/GB series models, the structure is more lightweight design, more energy efficient.
- > simple operating system, the learning cost is low.
- > front axle adopt linear guide, affordable high-speed movement, to ensure that the low friction,High rigidity and high precision.

Size & Data



Type	GA-800		GA-900		GB-800		GB-900		Type
	GA-800ID	GA-800HD	GA-900ID	GA-900HD	GB-800ID	GB-800HD	GB-900ID	GB-900HD	
a	1400	1400	1400	1400	1400	1400	1400	1400	a
b	1815	1815	1815	1815	1820	1820	1820	1820	b
c	275	275	275	275	260	260	260	260	c
d	145	145	145	145	160	160	160	160	d
e	850	850	950	950	800	800	900	900	e
f	590	385	710	505	660	490	780	610	f
g	790	790	910	910	790	790	910	910	g
h	-	385	-	505	-	490	-	610	h
i	-	-	-	-	-	-	-	-	i
j	200	405	200	405	130	300	100	300	j
k	-	172	-	172	-	90	-	90	k
l	-	233	-	233	-	210	-	210	l
m	-	152	-	152	-	160	-	160	m
Remark									Remark
Explanation									



Household  
appliance



Civilian



Toy



XTB-I(H)D

Medium-sized series

Single axis servo  
double framework  
model

Fit 380 - 700t IMM  
More efficient  
More stable



Basic reference

Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
Model	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTB-1100I(H)D	Double-cut frame	380-530	2970	1790	1600	0.7	AC 单相 200V±10% 50/60HZ	1.6	0.59	43/54	Servo drive of walking axle Cylinder drive of other axles	4.3	16.0	8	10	460/500
XTB-1300I(H)D		530-700	3150	1970	1700	0.7		1.6	0.59	47/60		5.3	17.0	8	10	520/560

Characteristics of product

- >XTB series of single small servo type mechanical manipulator, **X axis drive using high performance AC servo motor drive**, to meet the demand for fast access to the.Y axis, Z axis using cylinder drive, more economical.
- >Z axis double cut speed design, faster. At the same time to meet the installation requirements of building low customer
- >**Structure lightweight design, more energy efficient.**
- >The operating system is simple and the learning cost is low.
- >**More convenient maintenance.**
- >**The application of one-piece flip, live longer and more stable, guarantee the stability of the pick-up.**



Household appliance

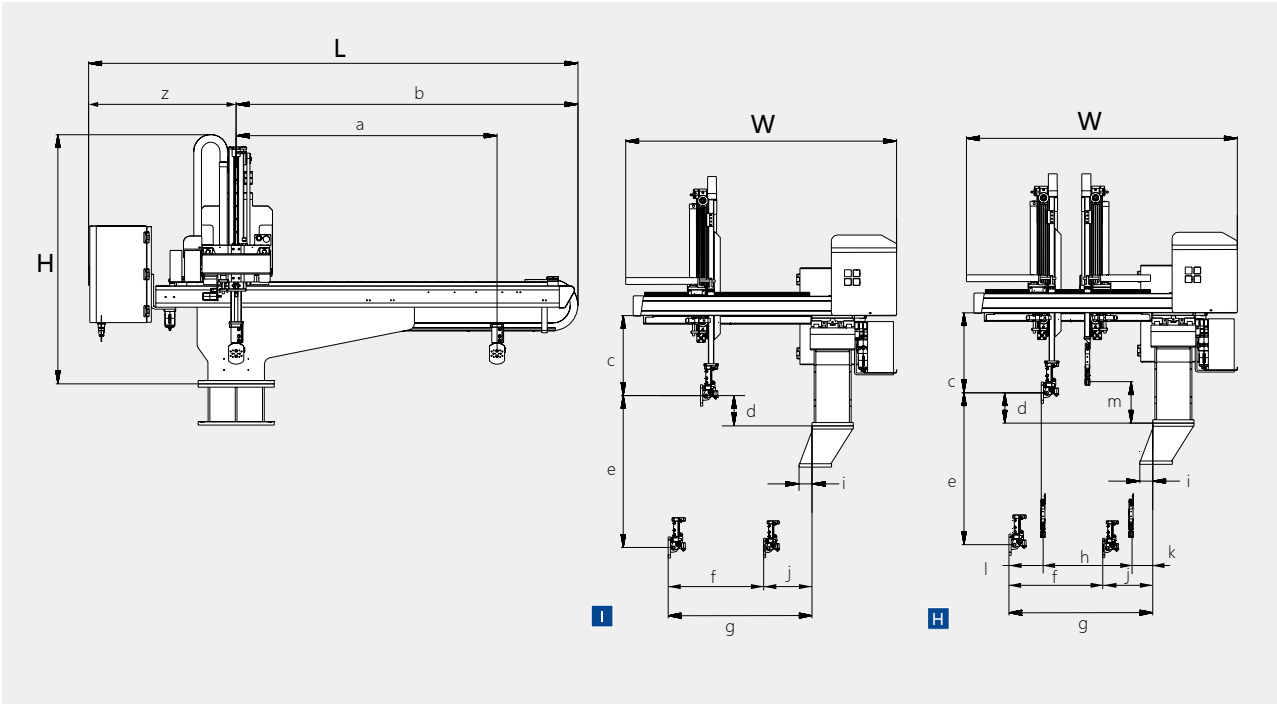


Civilian



Toy

Size & Data



Type	XTB-1100		XTB-1300		Type
	XTB-1100ID	XTB-1100HD	XTB-1300ID	XTB-1300HD	
a	1800	1800	2000	2000	a
b	2170	2170	2350	2350	b
c	450	450	450	450	c
d	200	200	200	200	d
e	1100	1100	1300	1300	e
f	900	670	1100	870	f
g	1050	1050	1250	1250	g
h	-	670	-	870	h
i	100	100	100	100	i
j	150	400	150	400	j
k	-	180	-	180	k
l	-	220	-	220	l
m	-	250	-	250	m
z	800	800	800	800	z
Explanation	Products side cylinder stroke before and after 300, the gate side cylinder stroke before and after 200.				



XTE-I(H)D

Small and medium-sized series

Biaxial servo double framework model

Fit 60 - 700t IMM  
More Easy  
More Efficient



Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
		-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTE-800ID/h	Double-cut frame		60-250	2440	1450	1280	1.8	AC single-phase 200V±10% 50/60HZ	2	0.49	4.20	Cylinder drive of front and back axes Servo drive of other axes	1.00	4.18	2	10	300
XTE-900ID/h			250-380	2600	1620	1330	1.8		2	0.49	4.22		1.10	4.25	2	10	310
XTE-1000ID/h			380-470	2600	1620	1345	1.8		2	0.49	4.25		1.12	4.32	2	10	310
XTE-1100I(H)D			470-530	2970	1790	1600	1.7		3	0.49	18/27		2.5	9.2	8	10	470/520
XTE-1300I(H)D			530-700	3150	1970	1700	1.7		3	0.49	18/31		2.8	9.7	8	10	530/580

Characteristics of product

- >XTE series of small models of two axis servo manipulator, **X axis, Z axis drive with high performance AC.Service motordriver**, to meet the needs of fast access to the.Y axis, Z1 axis using cylinder drive, more economical.Z axis double cut speed design, faster. At the same time to meet the installation requirements of building low customer.
- >**Structure is lightweight design, more energy saving**
- >The operating system is simple and the learning cost is low.
- >**The application of one-piece flip**, live longer and more stable, guarantee the stability of the pick-up.



Household appliance

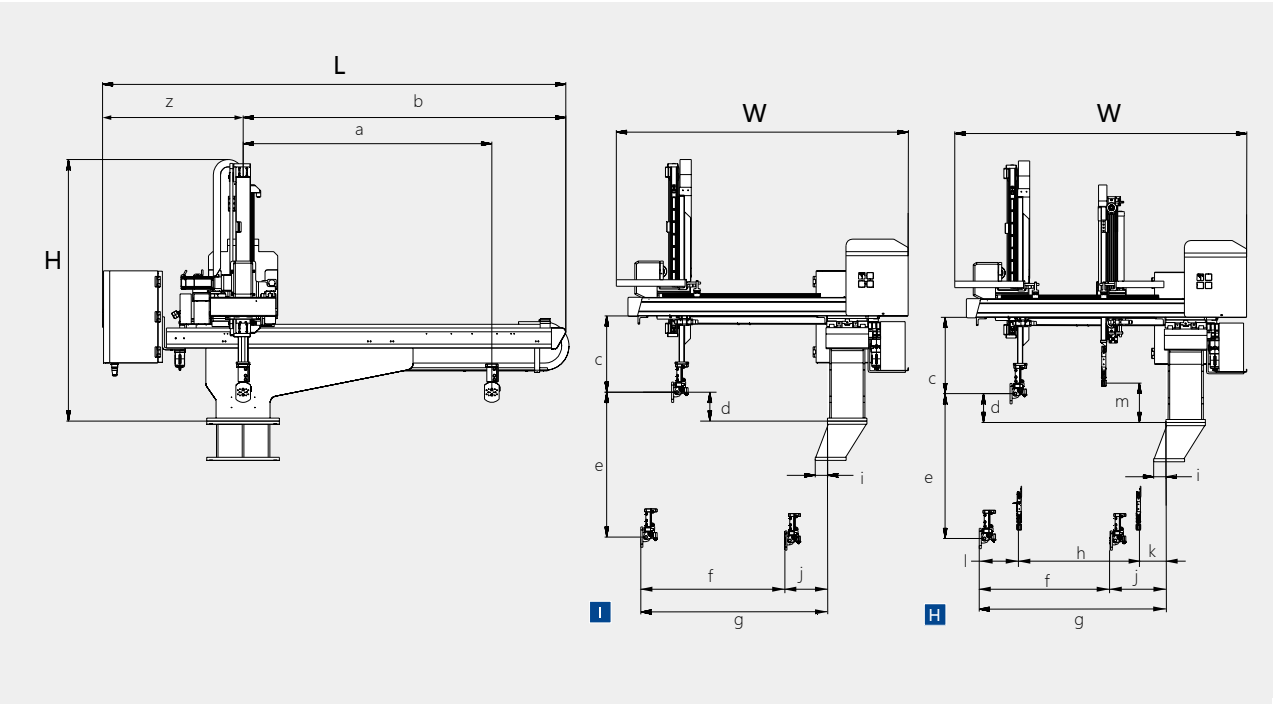


Civilian



Toy

Size & Data



Type	XTE-800	XTE-900	XTE-1000	XTE-1100		XTE-1300		Type
	XTE-800ID(h)	XTE-900ID(h)	XTE-1000ID(h)	XTE-1100ID	XTE-1100HD	XTE-1300ID	XTE-1300HD	
a	1400	1600	1600	1800	1800	2000	2000	a
b	1760	1920	1920	2170	2170	2350	2350	b
c	380	375	375	450	450	450	450	c
d	130	130	130	200	200	200	200	d
e	800	900	1000	1100	1100	1300	1300	e
f	200	790	790	900	670	1100	870	f
g	700	920(800)	920(800)	1050	1050	1250	1250	g
h	-	-	-	-	670	-	870	h
i	100	100	100	100	100	100	100	i
j	130	130	130	150	400	150	400	j
k	-	-	-	-	180	-	180	k
l	-	-	-	-	220	-	220	l
m	-	-	-	-	250	-	250	m
z	680	680	680	800	800	800	800	z
Explanation				Products side cylinder stroke before and after 300, the gate side cylinder stroke before and after 200				Explanation



XTF-I(H)D

Small and medium-sized series

Three axis servo double framework

Fit 60 - 700t IMM  
More Easy  
More Efficient



Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NI/cycle	-	s	s	kg	N.m	kg
XTF-800HD	Double-cut frame		60-250	2640	1570	1280	1.2	AC single-phase 200V±10% 50/60HZ	2	0.59	15.92	spure cylinder driving axle, front and rear shafts, up and down for servo drive the other axis	1.59	6.5	5	10	330
XTF-900HD			250-380	2640	1690	1335	1.2		2	0.59	17.17		1.67	6.8	5	10	340
XTF-1000HD			380-470	2600	1620	1345	1.2		2	0.59	18.42		1.75	7.1	5	10	350
XTF-1100HD			380-530	2600	1620	1345	1.7		3	0.5	27		2.5	9.2	8	10	520
XTF-1300HD			530-700	2600	1620	1345	1.7		3	0.5	31		2.8	9.7	8	10	580

Characteristics of product

- >XTF series of small models of two axis servo manipulator, **X, Y, Z axis driver using a high performance AC servo motor drive**, to meet the needs of fast access to the.Y axis, Z1 axis using cylinder drive, more economical.Z axis double cut speed design, faster. At the same time to meet the installation requirements of building low customer.
- >**Structure is lightweight design, more energy saving**
- >The operating system is simple and the learning cost is low.
- >**The application of one-piece flip**, live longer and more stable, guarantee the stability of the pick-up.



Household appliance

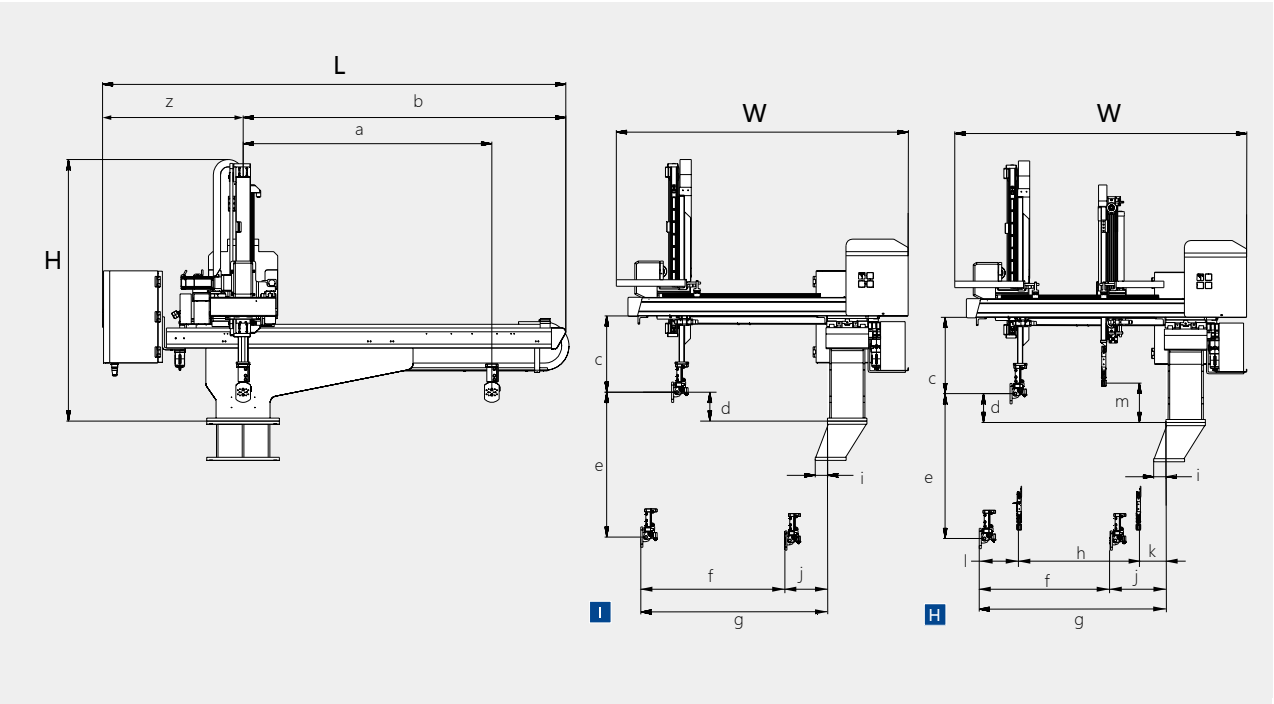


Civilian



Toy

Size & Data



Type	XTF-800	XTF-900	XTF-1000	XTF-1100	XTF-1300	Type
	XTF-800HD	XTF-900HD	XTF-1000HD	XTF-1100HD	XTF-1300HD	
a	1400	1600	1600	1800	2000	a
b	1760	1920	1920	2170	2350	b
c	380	375	375	450	450	c
d	130	130	130	200	200	d
e	800	900	1000	1100	1300	e
f	200	790	790	850	1100	f
g	700	920(800)	920(800)	1050	1250	g
h	-	-	-	850	1100	h
i	100	100	100	100	100	i
j	130	130	130	150	150	j
k	-	-	-	180	180	k
l	-	-	-	220	220	l
m	-	-	-	250	250	m
z	680	680	680	800	800	z
Explanation	Running side cylinder stroke before and after 200					

XTA-I(H)S  
Small series

Full servo single cut  
model

Fit 60 - 380t IMM  
More Easy  
More Efficient



Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
XTA-800I(H)S	Single-cut suspension	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-900I(H)S		-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg

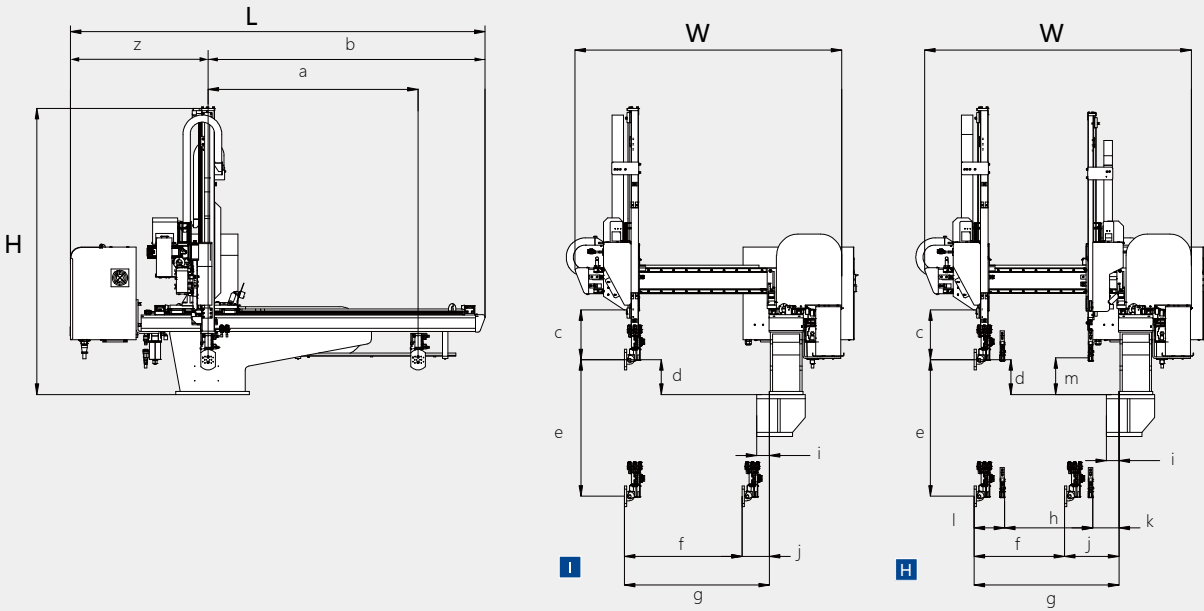
Characteristics of product

- >XTA series full servo small models of mechanical hand, each axis drive using high performance AC servo Ma Da Moving, **faster, more accurate, more durable.**
- >Operating system, the depth of customization, **the program can be taught**, according to the action demand flexibility of the set To make, with **high performance** characteristics.
- >Application in the production of **a short cycle of products out of the application**, or applied in a more complex automation
- >The series of models using Y axis suspension, Z axis of the structure, in the guarantee of strength and speed of the situation Lower and **more economical.**
- >To meet the production requirements of different moulds by calling the internal procedure quickly.



Household appliance    Electronic    Civilian    Toy

Size & Data



Type	XTA-800		XTA-900		Type
	XTA-800IS	XTA-800HS	XTA-900IS	XTA-900HS	
a	1200	1200	1400	1400	a
b	1590	1590	1800	1800	b
c	275	275	275	275	c
d	140	140	140	140	d
e	650	650	750	750	e
f	540	400	660	520	f
g	660	660	780	780	g
h	-	400	-	520	h
i	60	60	60	60	i
j	120	260	120	260	j
k	-	120	-	120	k
l	-	140	-	140	l
m	-	170	-	170	m
z	655	655	655	655	z
Explanation					



XTA-I(H)D  
Small series

Full-servo double-cut  
frame type model

Fit 60 - 380t IMM  
More efficient  
More stable



Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-800I(H)D	Double-section frame		60-250	2460	1570	1280	1.2/2.1	AC single-phase 200V±10% 50/60HZ	3.0	0.49	4.77	Full servo drive	1.59	6.5	5	10	300/330
XTA-900I(H)D			250-380	2460	1690	1335	1.2/2.1		3.0	0.49	4.99		1.67	6.8	5	10	310/340
XTA-1000I(H)D			250- 380	2620	1620	1345	1.2/2.1		3.0	0.49	5.21		1.75	7.1	5	10	320/350
XTA-800ID/h			60-250	2460	1450	1280	1.8		3.0	0.49	1.83		1.13	5.0	2	10	300
XTA-900ID/h			250-380	2460	1570	1335	1.8		3.0	0.49	1.91		1.15	5.2	2	10	310
XTA-1000ID/h			250- 380	2620	1570	1345	1.8		3.0	0.49	2.05		1.22	5.6	2	10	320

Characteristics of product

XTA series full-servo small models of manipulators are involved, and the AC servo motors of high performance are applied to driving of all axles, with **quicker speed, higher precision and more excellent durability.**

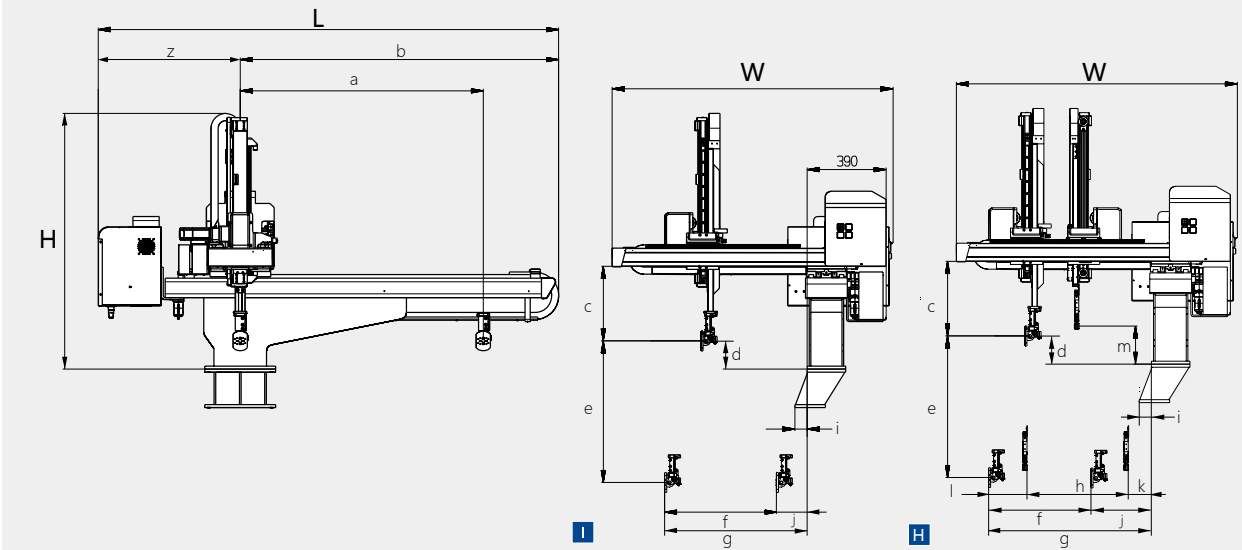
The operating system is customized deeply, and **the program is featured with teachability;** the actions can be set flexibly according to the demand of actions; thus, the system has high pick-up characteristics of high performance.

This series machines shall be applicable for pickup of all products having **short molding cycle,** or the automatic places which are complicated.

This series machines **include the model of high-speed machine** which can improve the production efficiency greatly due to fast pickup thereof.

This series machines can meet the demand of production of different molds by recalling the internal program quickly.

Size & Data



Type	XTA-800		XTA-900		XTA-1000		Type
	XTA-800ID ( h )	XTA-800HD	XTA-900ID ( h )	XTA-900HD	XTA-1000ID ( h )	XTA-1000HD	
a	1400	1400	1600	1600	1600	1600	a
b	1760	1760	1920	1920	1920	1920	b
c	370	370	375	375	375	375	c
d	140	140	130	130	130	130	d
e	800	800	900	900	1000	1000	e
f	670 ( 570 )	480	790 ( 670 )	600	790 ( 670 )	600	f
g	800 ( 700 )	800	920 ( 800 )	920	920 ( 800 )	920	g
h	-	480	-	600	-	600	h
i	100	100	100	100	100	100	i
j	130	320	130	320	130	320	j
k	-	150	-	150	-	150	k
l	-	170	-	170	-	170	l
m	-	180	-	180	-	180	m
z	680	680	680	680	680	680	z
Remark	Include XTA-800I (H) D/h high-speed machine. The standard configuration(1 absorb 1 blow)		Include XTA-800I (H) D/h high-speed machine. The standard configuration(1 absorb 1 blow)		Include XTA-800I (H) D/h high-speed machine. The standard configuration(1 absorb 1 blow)		Remark
Explanation							



Household  
appliance



Electronic



Civilian



Toy

XTA-I(H)D

Medium series

Full-servo double-cut  
frame type model

Fit 380 - 1300t IMM

More efficient

More stable



Basic reference

Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
		-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-1100I(H)D	Double-section frame		380-530	2970	1790	1550/1600	2.1/2.9	AC single-phase 200V+/-10% 50/60HZ	4.5	0.49	15	Full servo drive	1.8	7.8	8	10	470/520
XTA-1300I(H)D			530-700	3150	1970	1650/1700	2.1/2.9		4.5	0.49	15		2.1	4.2	8	10	530/580
XTA-1100IDh			380-530	2970	1790	1550	3.6		4.5	0.49	15		1.17	8.3	4	10	500
XTA-1300IDh			530-700	3150	1970	1650	3.6		4.5	0.49	15		1.64	5.1	4	10	560
XTA-1500I(H)D			700-1000	3847	2480	1935	2.3/3.5	AC three-phase 200V±10% 50/60HZ	5.0	0.60	24		2.5	7.0	20	21	920/995
XTA-1700I(H)D			1000-1300	3847	2480	2065	2.3/3.5		5.0	0.60	24		2.5	7.0	20	21	935/1020
XTA-1500tHD			600-900	3800	2480	1960	2.3		5.0	0.60	24		2.5	7.0	20	21	1075/1130

Characteristics of product

>XTA series full-servo medium models of manipulators are involved; and the AC servo motors of high performance are applied to driving of all axles, **with quicker speed, higher precision and more excellent durability.**

>The operating system is customized deeply, and **the program is featured with teachability**; the actions can be set flexibly according to the demand of actions; thus, the system has high pick-up characteristics of high performance.

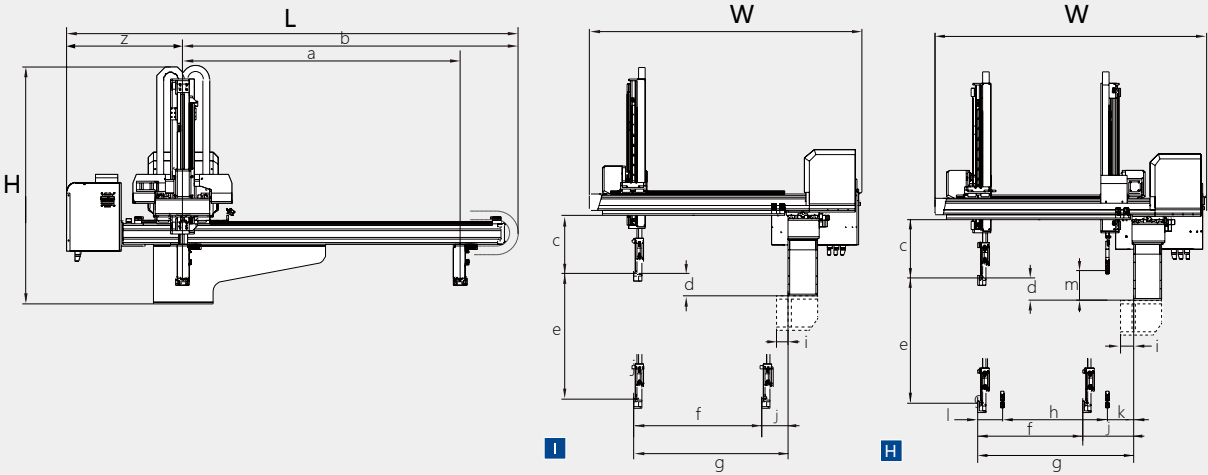
>This series machines shall be applicable for pickup of all products having short molding cycle, or the automatic places which are complicated.

>This series machines include the model of **high-speed machine** which can improve the production efficiency greatly due to fast pickup thereof.

>This series machines can meet the demand of production of different molds by recalling the internal program quickly.

>This series machines can meet the need of the customer with **great load** on the premise that the speed is ensured.

Size & Data



Type	XTA-1100		XTA-1300		XTA-1500			XTA-1700			Type
	XTA-1100ID(h)	XTA-1100HD	XTA-1300ID(h)	XTA-1300HD	XTA-1500ID	XTA-1500HD	XTA-1500tHD	XTA-1700ID	XTA-1700HD	XTA-1700tHD	
a	1800	1800	2000	2000	2500	2500	2500	2500	2500	2500	a
b	2170	2170	2350	2350	3102	3102	2850	3102	3102	2850	b
c	450	450	450	450	550	550	550	550	550	550	c
d	200	200	200	200	128	128	128	128	128	128	d
e	1100	1100	1300	1300	1500	1500	1500	1700	1700	1700	e
f	900	670	1100	870	1320	1120	1070	1320	1120	1070	f
g	1050	1050	1250	1250	1520	1520	1520	1520	1520	1520	g
h	-	670	-	870	-	1120	1070	-	1120	1070	h
i	100	100	100	100	100	100	100	100	100	100	i
j	150	380	150	380	200	400	450	200	400	450	j
k	-	160	-	160	-	210	235	-	210	235	k
l	-	220	-	220	-	190	215	-	190	215	l
m	-	250	-	250	-	138	128	-	138	128	m
z	800	800	800	800	755	755	755	755	755	755	z
Remark	Include XTA-1100ID/h high-speed machine. The standard configuration(1 absorb 1 blow)		Include XTA-1300ID/h high-speed machine. The standard configuration(1 absorb 1 blow)		Two main arms can be customized			Two main arms can be customized			备注
Explanation											



Automotive



Household appliance



Electronic



Civilian



Toy



XTA-I(H)D

Large series

Full-servo double-cut  
frame model

Fit 800 - 4500t IMM

More efficient

More stable





Basic reference


Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
		-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTA-2000I(H)D	Double-section fram		800-1600	4015	3543	2274	2.1/5.0	Three-phase AC 200V±10% 50/60HZ	6	0.59	27.67	Full servo drive	5.53	16.6	35	88	1274/1341
XTA-2500ID			1600-4000	5000	3870	3050	4.0		10	0.59	33.3		6.04	20	40	64	2630
XTA-3000ID			1600-4000	5400	3870	3290	4.0		10	0.59	41.67		8.04	25	80	123	4400


Characteristics of product

- >XTA series full-servo large models of manipulators are from Japanese Technology, the high-end technology is taken to meet the need of the customer with high load.
- >Three (five)-axe full-servo motor is applied to driving, with high speed rate, low noise, precise location, strong controllability during running, etc.
- >Manipulator is featured with graphic section and more humanized.
- >The XTA-3000HDt machine with double main booms is developed independently after many years of technical accumulation and precipitation, and is popular with the customers in automobile industry due to its higher loading ability.

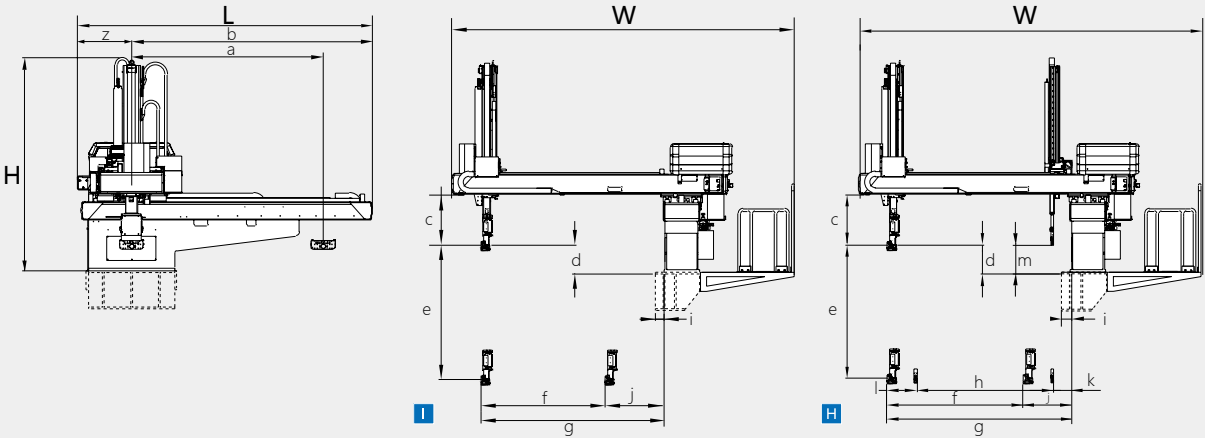
Automotive

Logistics

Household appliance

Civilian

尺寸参数



Type	XTA-2000		XTA-2500	XTA-3000	Type
	XTA-2000ID	XTA-2000HD	XTA-2500ID	XTA-3000ID	
a	3000	3000	3600	4000	a
b	3405	3405	4300	4700	b
c	555	555	761.5	761.5	c
d	250	250	403	403	d
e	2000	2000	2500	3000	e
f	1590	1415	1600	1600	f
g	1800	1800	2150	2150	g
h	-	1415	-	-	h
i	10	10	40	40	i
j	300	525	550	550	j
k	-	180	-	-	k
l	-	310	-	-	l
m	-	300	-	-	m
z	855	855	1080	1362	z
Remark			Note: XTA-2500IDfor the standard machine, up and down the OP Travel e value optional: 2000	Note: XTA-3000ID refers to the machine having double main booms, and the XTA-3000tHD can be customized.	Remark
Explanation					

XTD-ID

Open series

Full-servo cow-head-type model

Fit 700 - 4500t IMM  
More efficient  
More stable




Basic reference


Model	Unit	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
XTD-1100ID	Open type		280-470	3078	1962	1563	2.4	AC single-phase 200V±10% 50/60HZ	2.41	8.2	15	Full servo drive	2.41	8.2	8	16.5	430
XTD-1300ID			530-700	3318	2162	1623	2.4		2.41	8.2	15		2.41	8.2	8	16.5	460
XTD-1500ID			700-1000	3994	2450	2000	2.3		5.0	0.6	26.3		3.84	14.6	15	21	1210
XTD-1700ID			700-1000	3994	2450	2120	2.3	Three-phase AC single-phase 200V±10% 50/60HZ	4.0	0.59	26.3		3.84	14.6	15	21	1250
XTD-2000ID			800-1600	4575	3535	2480	2.84		5.0	0.59	41.37		3.32	17.2	35	56	1248
XTD-2500ID			1600-2100	5257	3685	3027	3.16		8.0	0.59	78.74		5.57	19.3	40	64	2512
XTD-3000ID			2100-4500	5670	3544	3522	4.0		10	0.6	210		9	31	80	285	2650

Characteristics of product


- >The XTD series full-servo manipulators are out of the frame structure, with **more flexible and reliable actions and wider scope of application**.
- >The upper unit and the lower unit are manufactured from **the high-rigidity** aluminium sections; moreover,the manipulator is featured with compact structure and beautiful appearance after combining with the double-section speed-doubling design.
- >The cow-head-type structure is taken, and the gravity is placed backward; therefore the boom is shorter, the machine has higher durability, and more application space for jig is increased.
- >Movement in more dimensions can be implemented by expansion of the terminal; thus, the manipulator can be applied to the complicated application places.



Automotive



Logistics

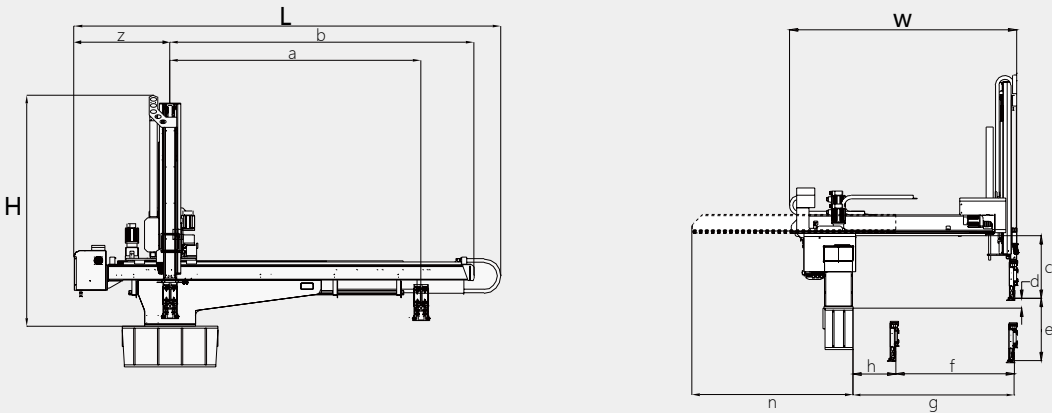


Household appliance



Civilian

Size & Data



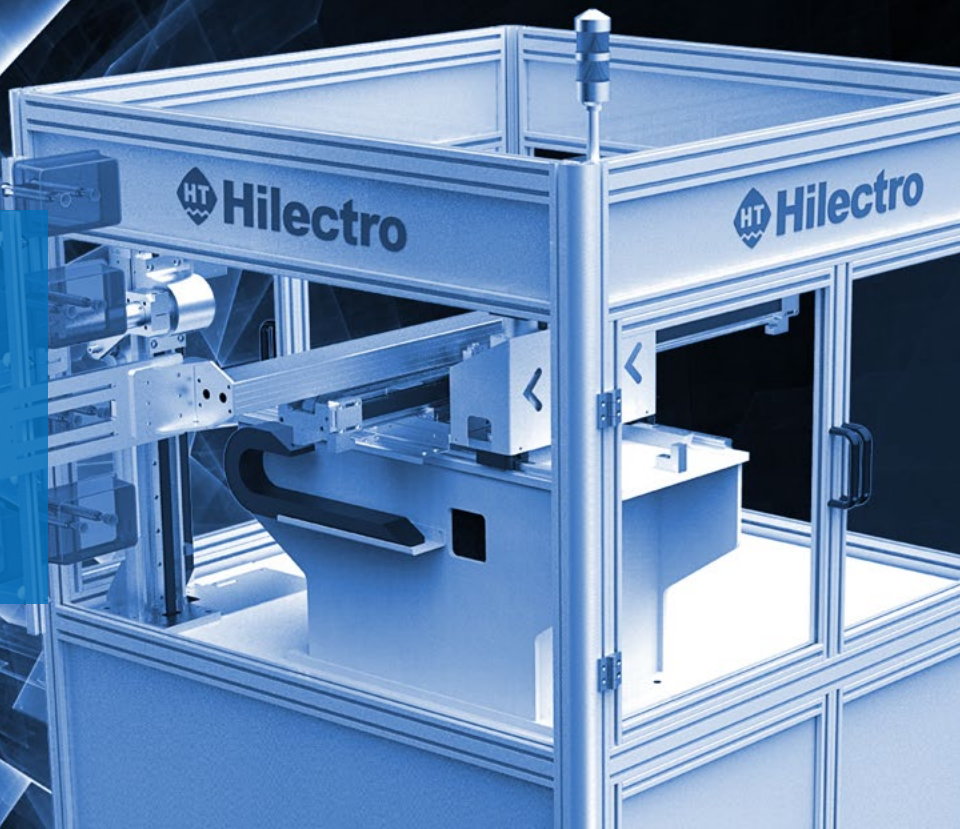
Type	XTD-1100ID	XTD-1300ID	XTD-1500ID	XTD-1700ID	XTD-2000ID	XTD-2500ID	XTD-3000ID	Type
a	1800	2000	2500	2500	3000	3500	4000	a
b	2283	2523	2876	2876	3410	3915	4491	b
c	402	402	500	500	452	593	601	c
d	260	260	200	200	325	366	358	d
e	1100	1300	1500	1700	2000	2500	3000	e
f	980	1160	1340	1340	1800	2200	2200	f
g	1235	1415	1632	1632	2165	2715	2670	g
h	255	255	292	292	365	515	470	h
n	1480	1480	1907	1907	2500	1907	3087	n
z	770	770	942	942	945	969	969	z
Remark	Base displacement: 50 mm							Remark
Explanation								



## XTS

### Side-take series

Fast-food box side-take model



## XTC

### vertical-travel series

The utilization rate of the plant can be improved and the products can be produced by means of the flow line due to vertical pickup of the injection molding machine.



### Faster

The XTS series side-take manipulators are researched and developed in allusion to the disposable lunch box industry. This series manipulators can be matched with the high-speed injection molding machine to pick out and stack the disposable lunch boxes, which can meet the production demand of this industry and improve the production efficiency.

Type	high speed side take a manipulator
IMM	150-480t
product	glass molding product snack box at a high speed
Axis number	Three axis servo
Cycle	3.5-5s
Intramode	0.5s

\*Please see the product page for specific parameters.



### Major specifications

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

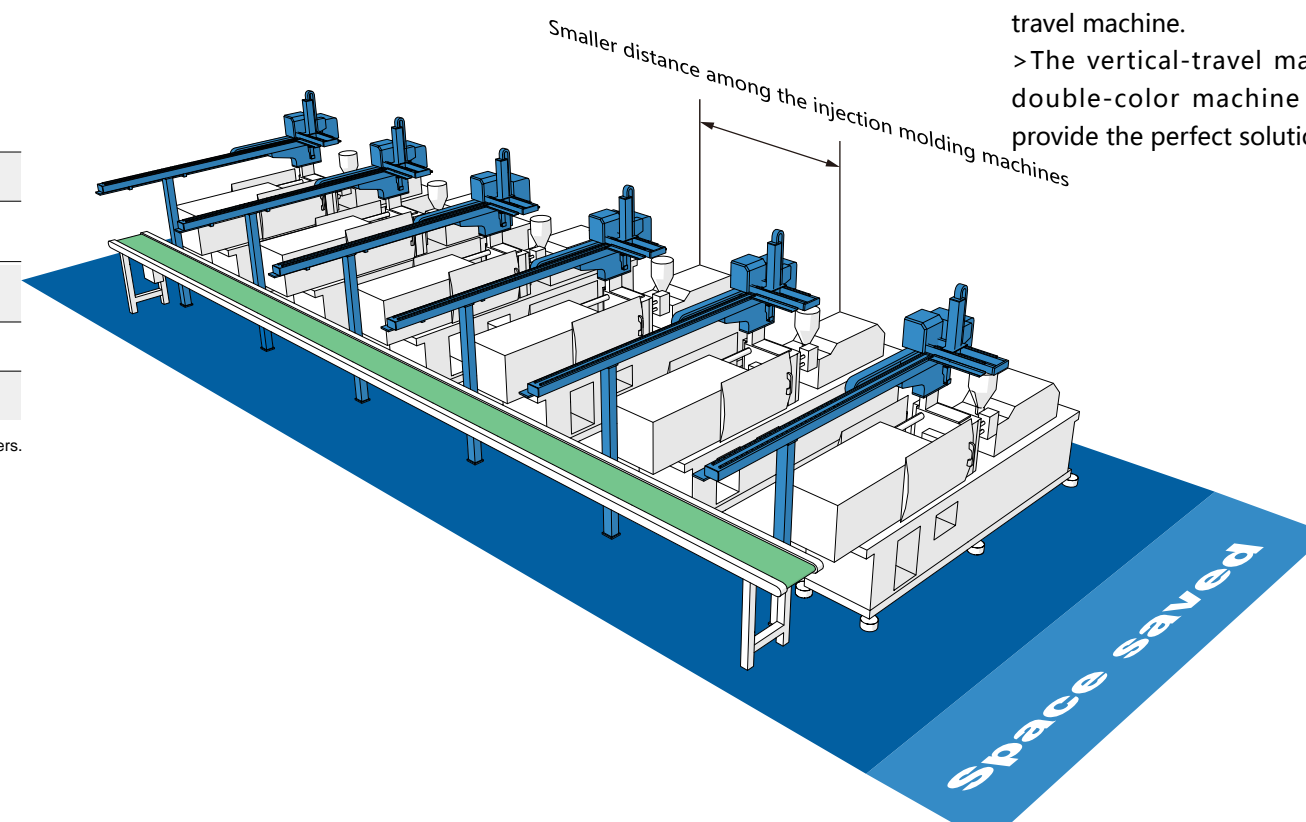
\*Please see the product page for specific parameters.

### More efficient

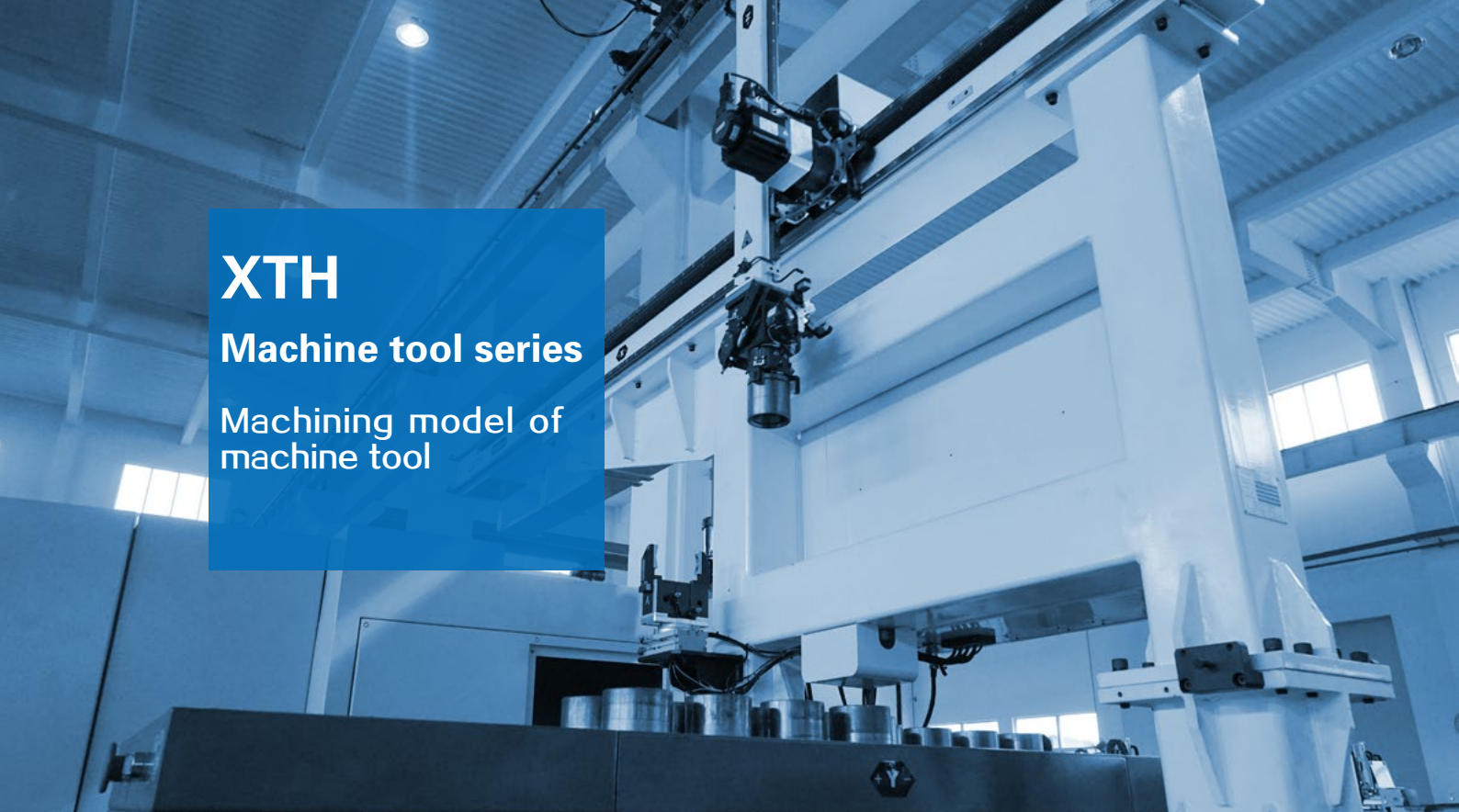
The XTC vertical-travel machine launched can improve the utilization rate of the plant and save the branch conveyor belt and is more useful for using the flow line production of the product.

>The utilization rate of space can be improved for 20% when compared with the transverse-travel machine.

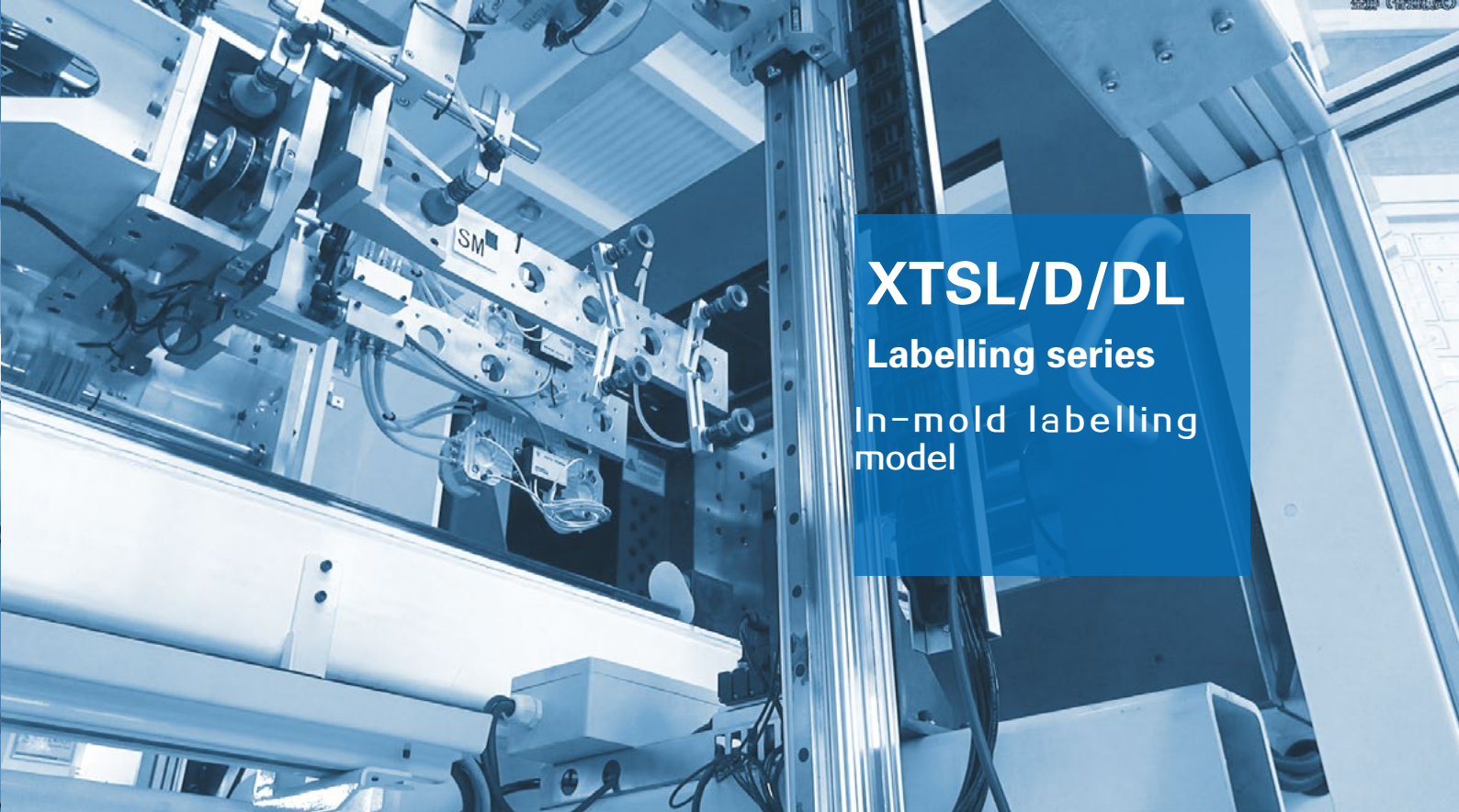
>The vertical-travel machine refers to the double-color machine system, which can provide the perfect solution.







**XTH**  
**Machine tool series**  
Machining model of  
machine tool

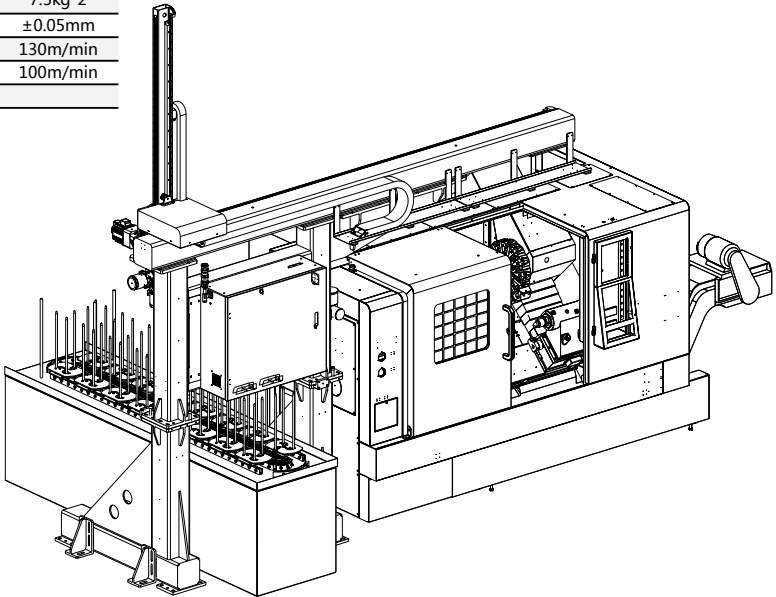


**XTSL/D/DL**  
**Labelling series**  
In-mold labelling  
model

**New opportunity , new direction**

XTH series models are the integrated truss manipulator to be applied to the industry of machine tool. The one-for-two deployment way is taken by this series of machines, and one manipulator can complete loading and unloading of materials automatically of two machine tools and is especially Fit the places of short processing rhythm and great production lot.

	Parameter			
models	XTH003	XTH005	XTH010	XTH015
The biggest clip weight	1.5kg*2	2.5kg*2	5kg*2	7.5kg*2
Repeat positioning accuracy	±0.05mm	±0.05mm	±0.05mm	±0.05mm
The X axis maximum speed	130m/min	130m/min	130m/min	130m/min
The Z axis maximum speed	100m/min	100m/min	100m/min	100m/min
Drive way	Servo + reducer			
Control system	Special robot controller			



**Major Parameters**

Maximum speed	3.6m/s
Retention time in mold	1.6s
Null cycle time	3.5s
Drop rate	1 <sup>0</sup> / <sub>00</sub>

\*Please see the product page for specific parameters.



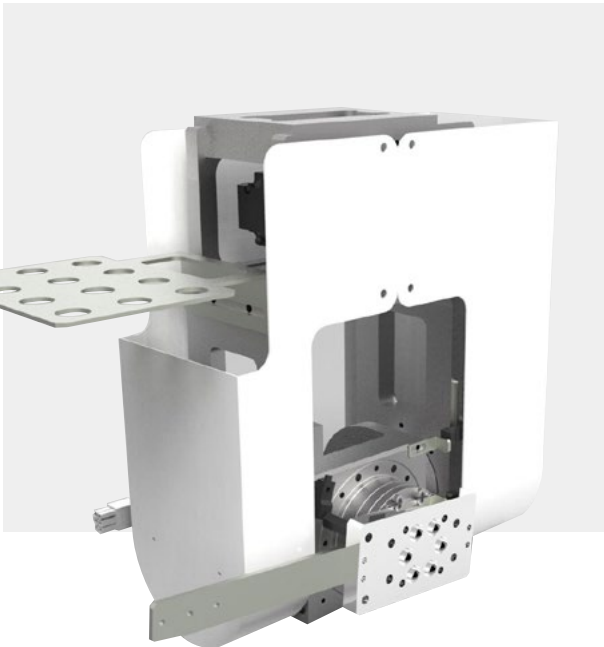


Manipulator terminal extension



Integral rolling-over

Applicable type	Load capacity ( kg )
800	4
1100	8



AC Axes

Applicable type	Load capacity ( kg )
1100	8
1500	30
2000	40



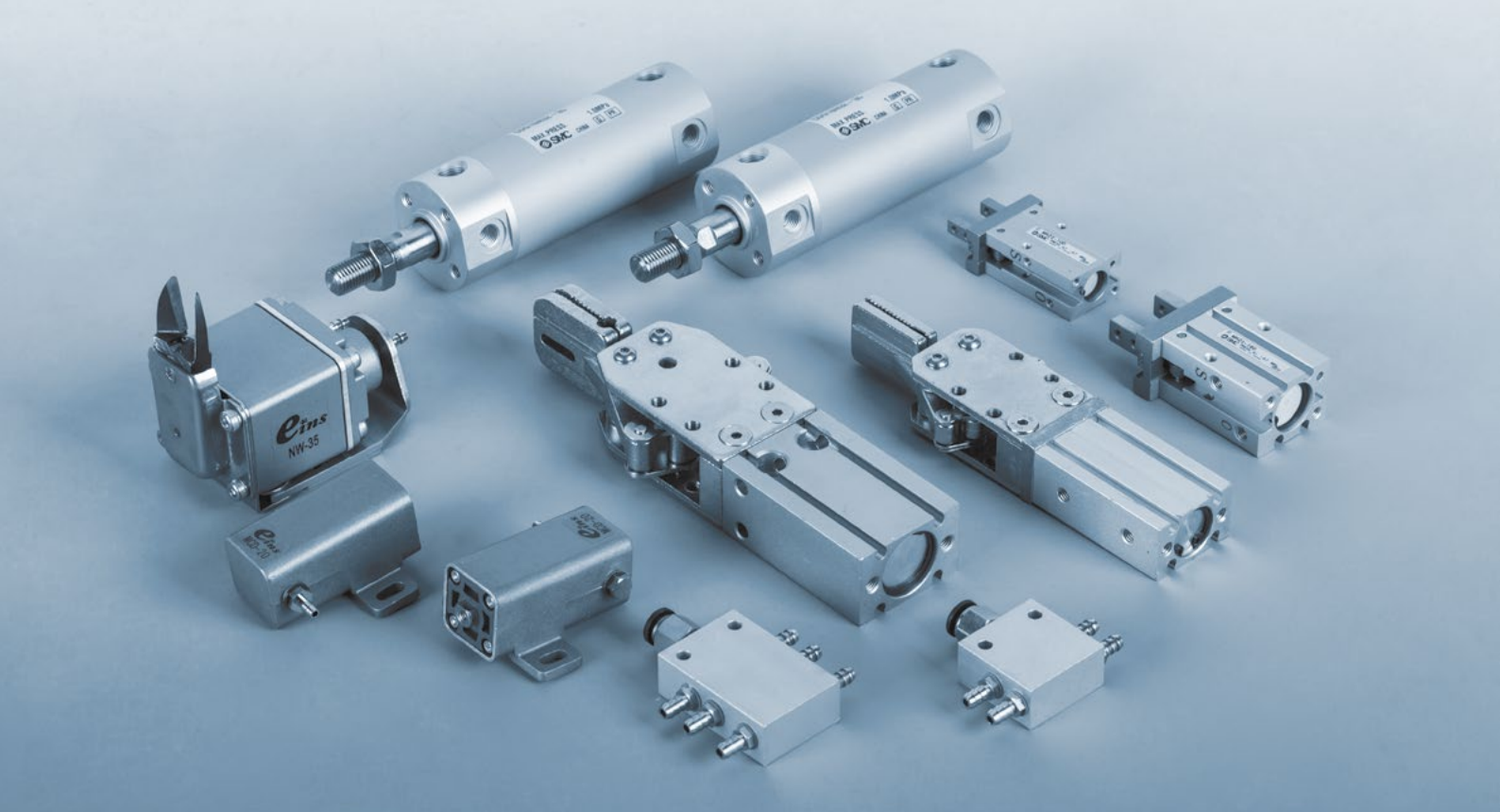
B Axes

Applicable type	Load capacity ( kg )
1100	8



C Axes

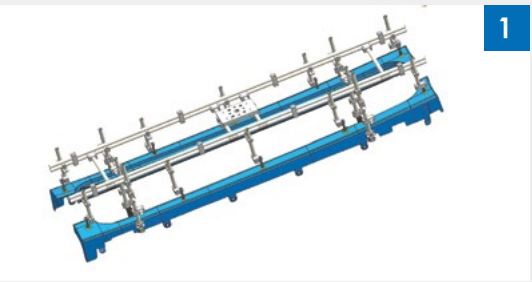
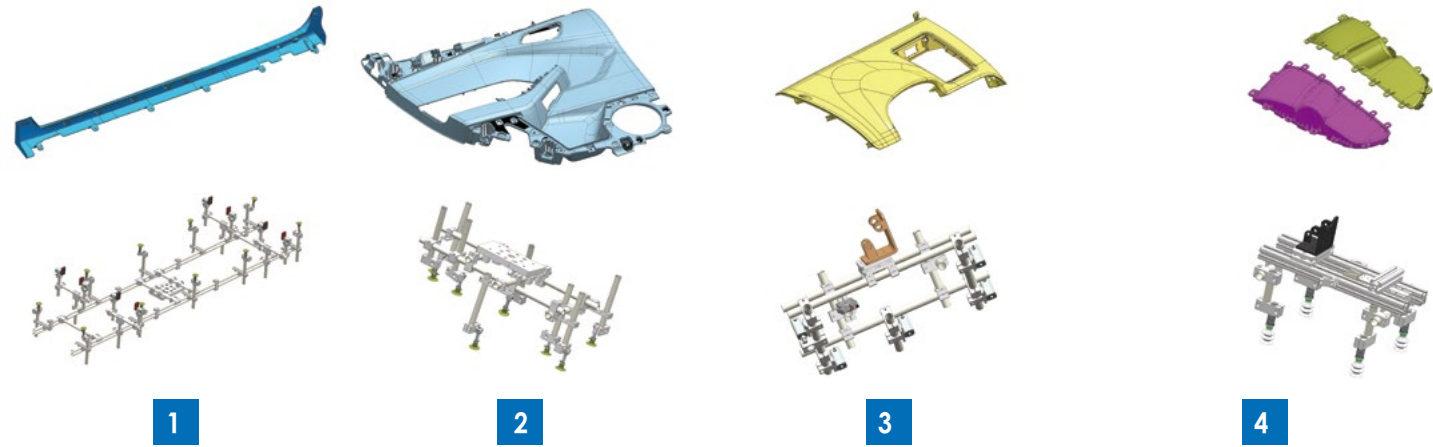
Applicable type	Load capacity ( kg )
800	8
1100	8
1500	15
1800	30
2000	40/60



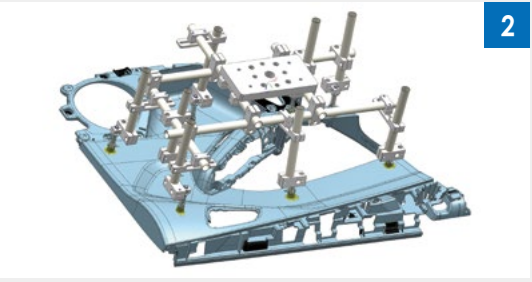
# Super Accessory, Top quality .

brand servo motor,driver,  
Pneumatic accessory,  
High quality metal fitting  
and adsorbent

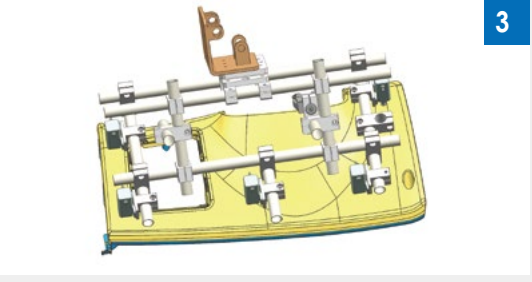
High class product is based on wonderful accessory,  
The all pneumatic accessory, electric elements are  
applied with Japanese ,Germany brand.  
With high quality and good reputation. The mechanical  
parts are applied with foreign top steel materials, and  
processed with advanced equipment. In this way, we  
commit to building high quality products.



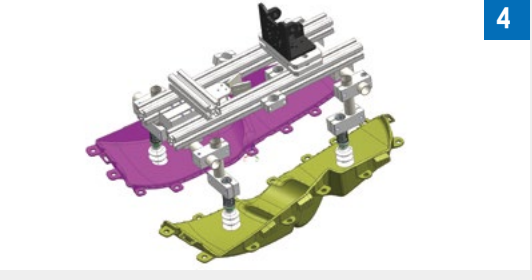
1 Description: The products belong to rib form, with a certain circular measure, and apply with stainless steel for fame-works, to make sure its solid and strength requirement, meanwhile, may adjust adsorbent angle to make perfect level adsorbing effect.piston seizure may assist to carry the products steadily.



2 Description: the product is designed with irregular surface and max circular changes. And apply with stainless steel tube for frames works, connecting for adjustable adsorbing angle to make the best adsorbing effect



3 Description: with irregular design , and stainless steel tube for frame-works, meanwhile, the mold' s ejection distance is limited, and applied with adsorbing tank to make automatically. And also apply optional nozzle gripper to carry the handles of the products.



4 Description: The product is designed with irregular parts, but may adsorb between level parts, then apply aluminum for frame-works to ensure its steadiness. Optional gripper may carry dual channel with inspecting signal .



## Configuration DATA

Configuration Item	Description
Standby through manipulator dropping-down	Before module-making, the gripper may standby near the module to shorten carrying time. Also, may set up standby position.
Taking-out and lateral postural controlling	Through postural controlling on the safety door, may take out and carry the standing rib-form products. Avoiding barrier and traveling axial on the mold-making, may fit postural position freely.
Postural controlling during moving	For moving postural controlling, may preset reversing action in advance to shorten cycle time.
Production management	Based on Production schedule,through setting up production schedule, may validate factual quantity and productivity. Also , may predict production finishing time. Also applicable fitting up on finish goods discharging in initial phases, sampling inspection, automatic shutoff when production finished.
Maintenance	May display periodic inspection time and items, also oiling points and time of axes, and check periodic inspecting and oiling time.
Applicable CF Card /U disk	May take manipulator' s configuration data (mode, time, axes position and packing )as periodic data to manage through internal storage, for inputting, drawing up, comparing and deleting within shortening time.
Adsorbing confirmation	Equipped with 1 set vacuum unit
Gate dropping while moving	When 3- plate mold production, the gate may open while moving forward.
Packing	Through driven by conveyor belt and case packer to pack for finished products
Alarming records application	May record history alarming events.
Web Application	Only need link with Lan (Internet), may display manipulator' s station and acting situation and print through web.
NC Procedure application	NC procedure application, through editor, may edit programs and add necessary projects.
Easy NC setting	Easy setting up on NC procedures. During operation, may specify insert location. May adjust and alter NC critical point and time.
Connecting with computer	After installing on the computer, may connect through USD, transfer data and print files and edit the programs.
Power-saving application	Applicable power-saving mode
Memory mode	External memory (999 mode)
EU Standard	EU Standard 12
Match plate inspection	Fitting in with 2-plate mold, may check match plate mold if in place safely.
Applicable language	Chinese/Japanese

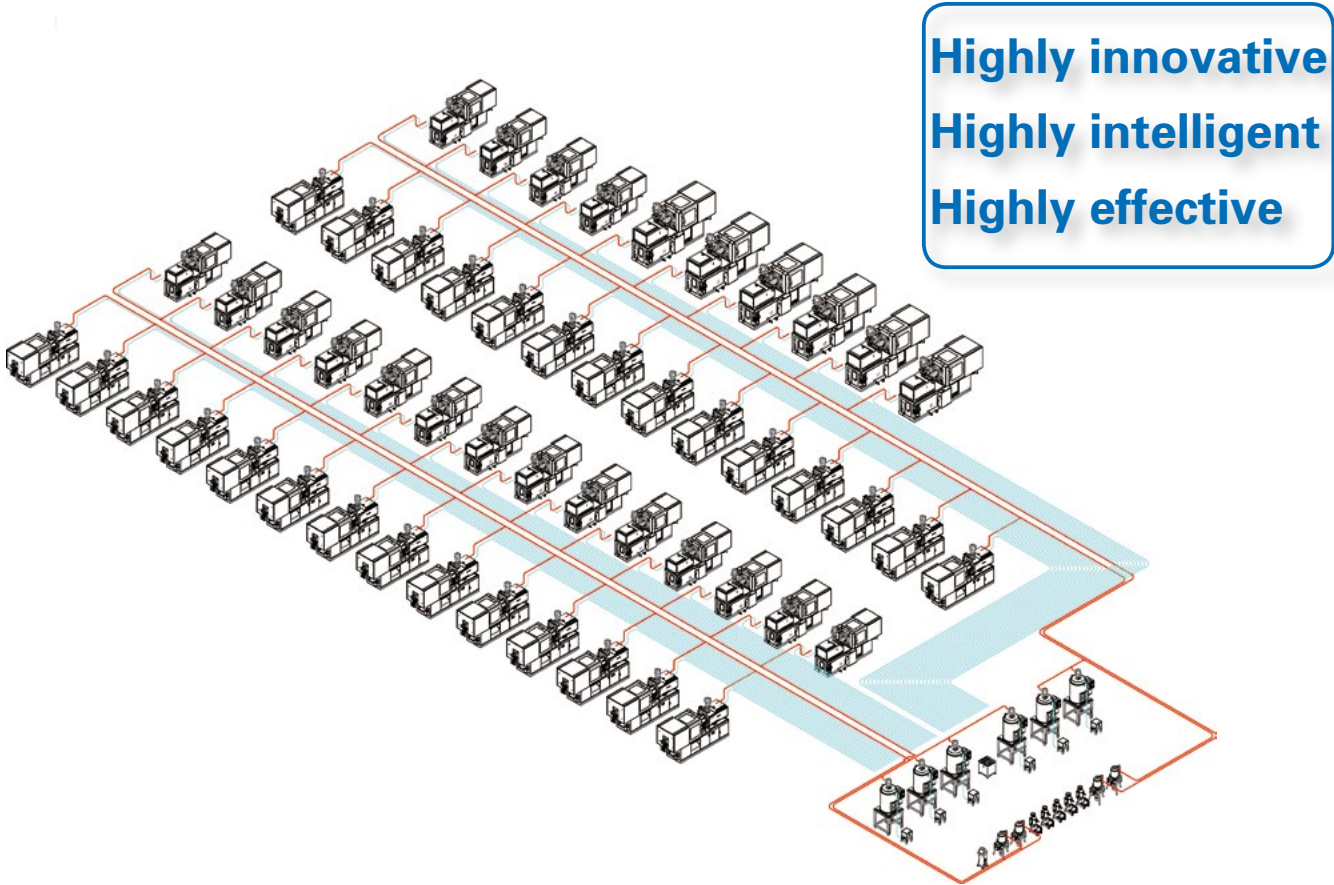
## Optional configuration

Configuration Item	Description
Defective goods discharging	May take defective products away, and cut down labor forces
Flexible moving switcher	Standardizing machine may take out finish product from moving mold. May switch to flexible moving, if switch to fixing side, may take out finish products from the mold.
Standby outside	If mold-making under production,to avoid barrier on manipulator or gripper plate, may fitted to standby while reverting move until mold-making finished.
Adjustable packing position	May set up finish products packing sites. Applicable 1024 resolution (1 phase MAX 256 resolution).
Slide moving back	Applicable for taking out products from slump structure molds. If add this application, may hold the products to carry the products from gripper.
Free shift clipping	If unable to clip directly, may trans-locate and clip through double loop kits.
Multiple processing site	May take 1-4 processing site, with corresponding signal, adsorbed by 4 loops.
Internal clip loop of gripper	Under automatic operation, the gripper may clip after the products are taken away.
Mold closing while uprising	Wile uprising, make mold closing to shorten operating time and cycle time.
Falling off while mold-making	While mold-making, take the arm into molds to shorten mold-close time and operating time.
Rotating application	The gripper may rotate automatically. May adjust internal, external and falloff freely.
Alarming light	While emergency occurs, the alarming lights on the manipulator may blink in time.
Automatic changing- kit loop Plug-in type changing-kit loop	
EU Standard	EU Standard 67
Applicable language	Chinese/English
Multiple adsorbent, loop-gripper unit, applicable 4 vacuum loop, 2 loop-gripper, may adjust operation freely.	

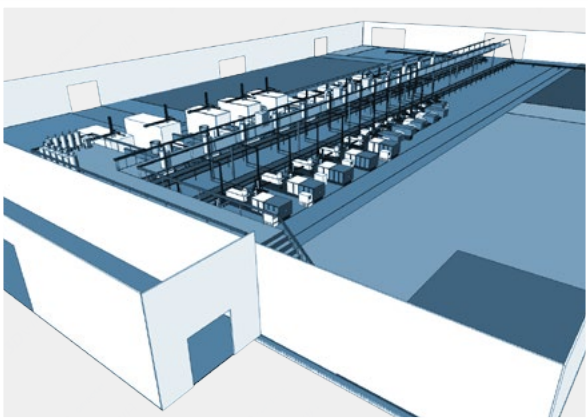




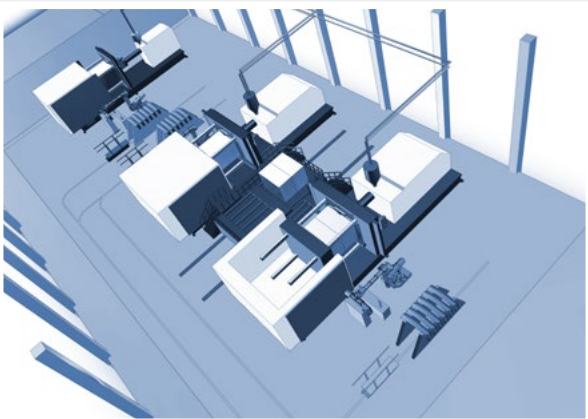
**Integral Delivery system**  
**Flow-line production**  
To build a modern and innovative factory



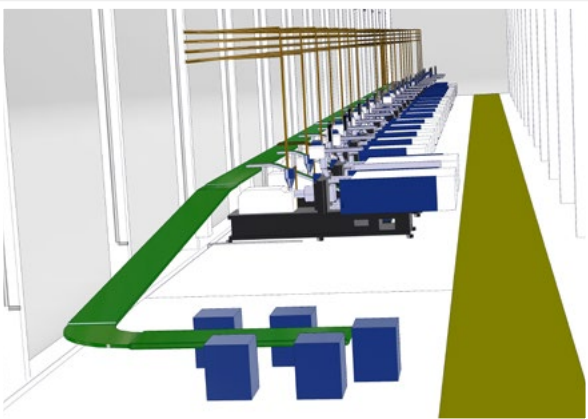
**Highly innovative**  
**Highly intelligent**  
**Highly effective**



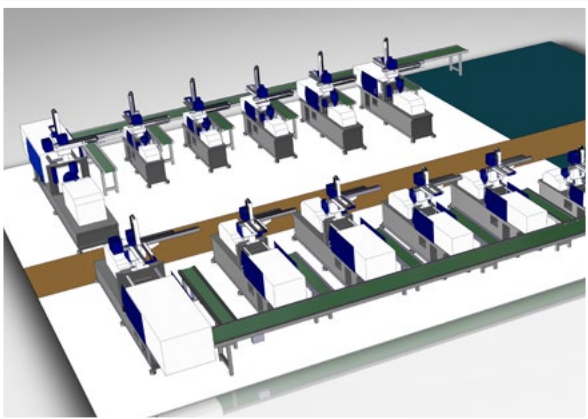
Layout of new workshop for integral delivery system



AGV, Mold exchanging platform



Layout of workshop's flow-line



Layout of equipment



**Leading Automatic  
manufacturer**  
**To update out-date  
production line**  
Highly intelligent  
Highly effective  
Highly steady

**We , the leader of professional automation solution**

We are specialized in injection molding, manipulator, also devotes to offer full-part service and professional automation solution to meet the clients’ automation requirement in this field. In addition, through enhancing productivity and quality for clients, we work to assist the clients to win the market.

We strive to cooperate with robot manufacturer , in such way, we make efforts to provide automation solution.



Perforation of car spoiler



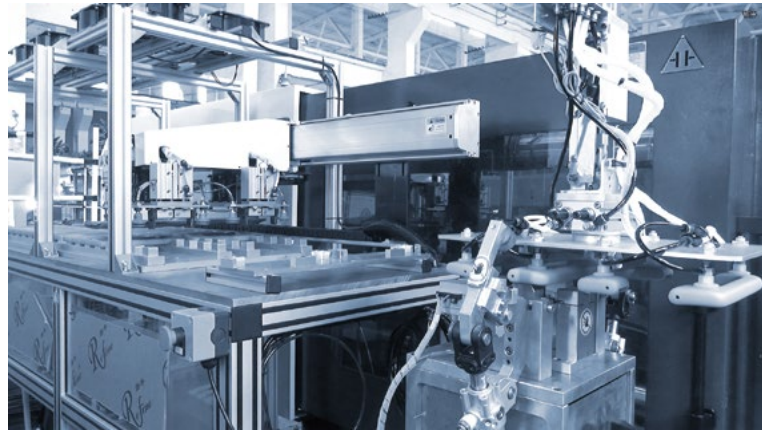
Robot pick-up, flame,  
pruning, excitation  
Light code



Mechanical up-side pickup, LD  
Clipping, dual flow-line.



Mechanical trimming remnants,  
inserts and over-turns.



Auto door-handle trimming,  
adjusting molds and sorting



Switch-on relay carrying,  
combination and sorting



## Note

[illegible]

## Note

[illegible]