



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洪江中路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.haitiandrive.com

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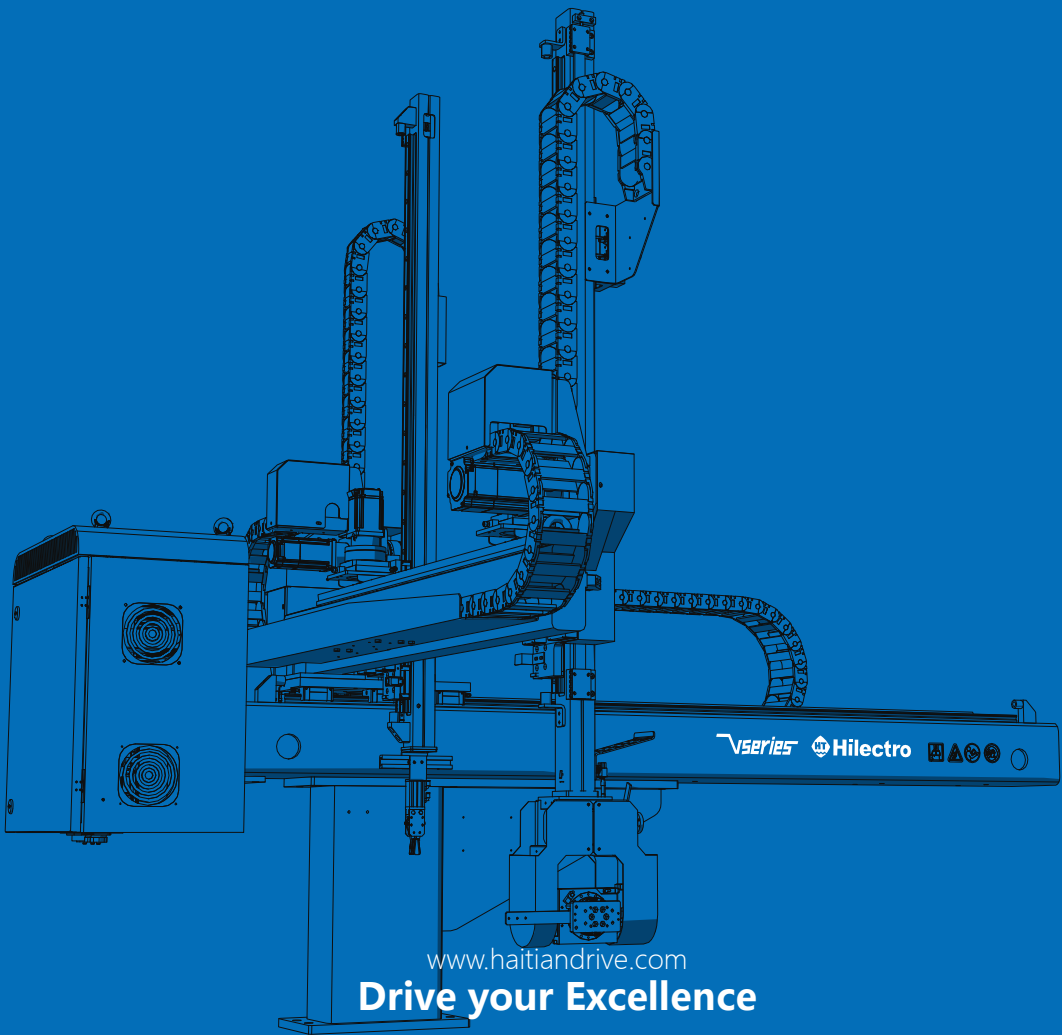
201904

Vseries

Hilectro Automation

High performance servo manipulator
 Automation solution leader

2019



www.haitiandrive.com
Drive your Excellence



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.



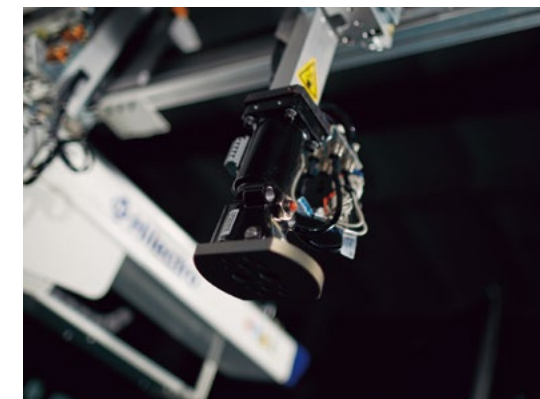
Innovation Drives Future



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.



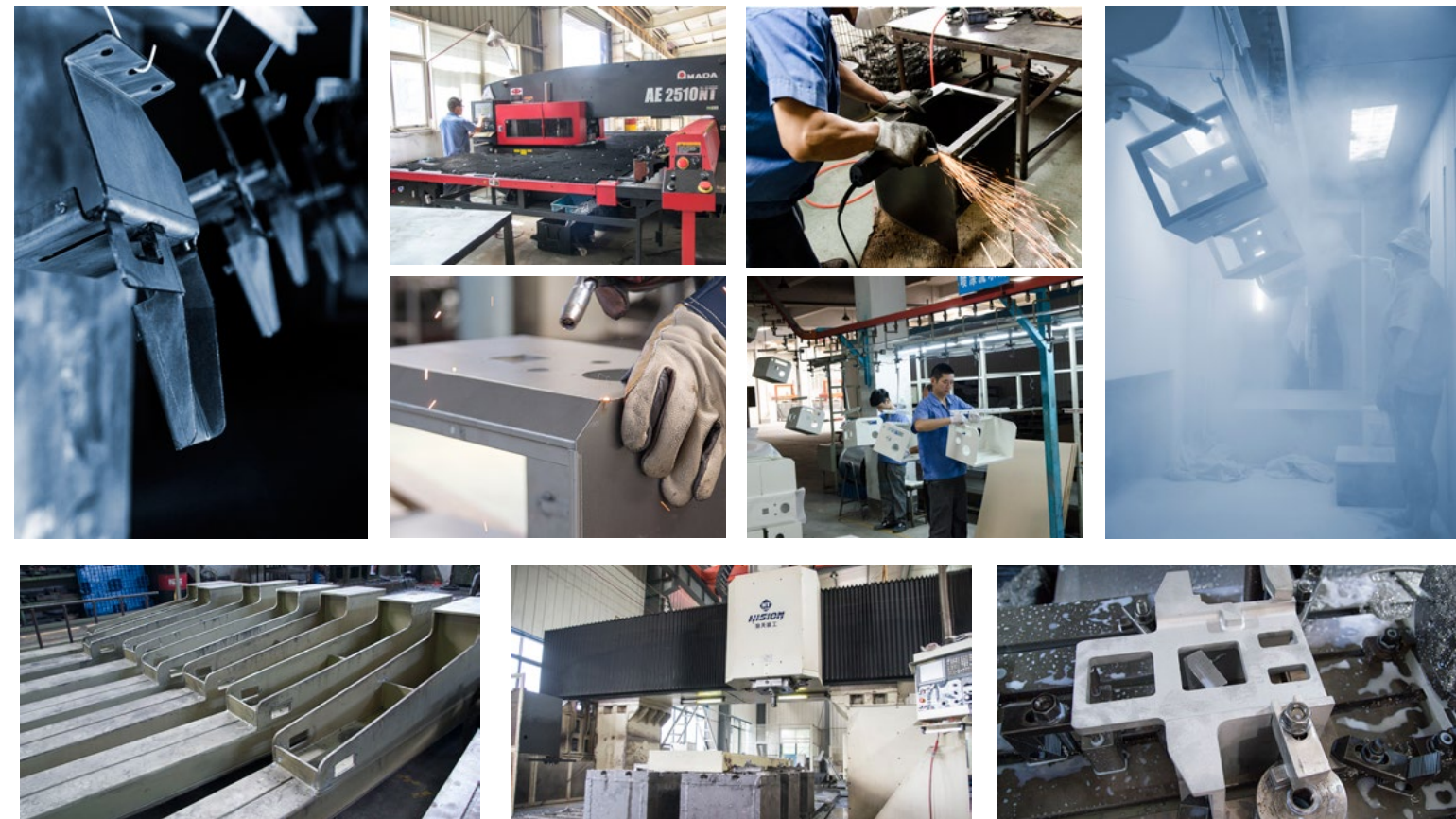
Automation Solution Leader

Hilectro 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.





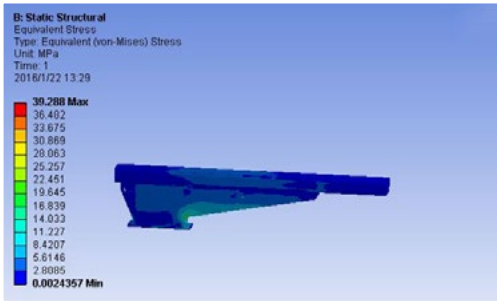
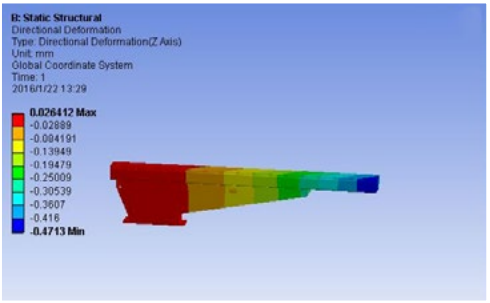
Processing Advantega



Exquisite Processing ensures superior quality

Innovation Drives Future

Focus on Quality



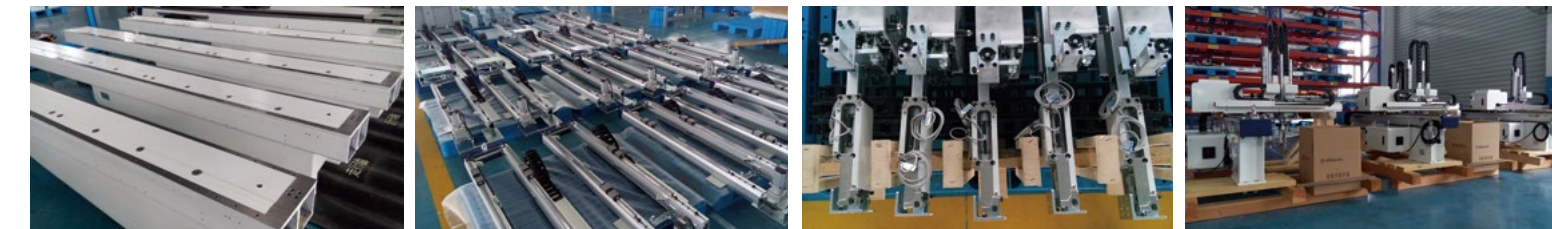
CAE
Structure
Optimization

Optimize the structure
by professional software



▲ Professional Assembly Line

▼ Component Management for Production

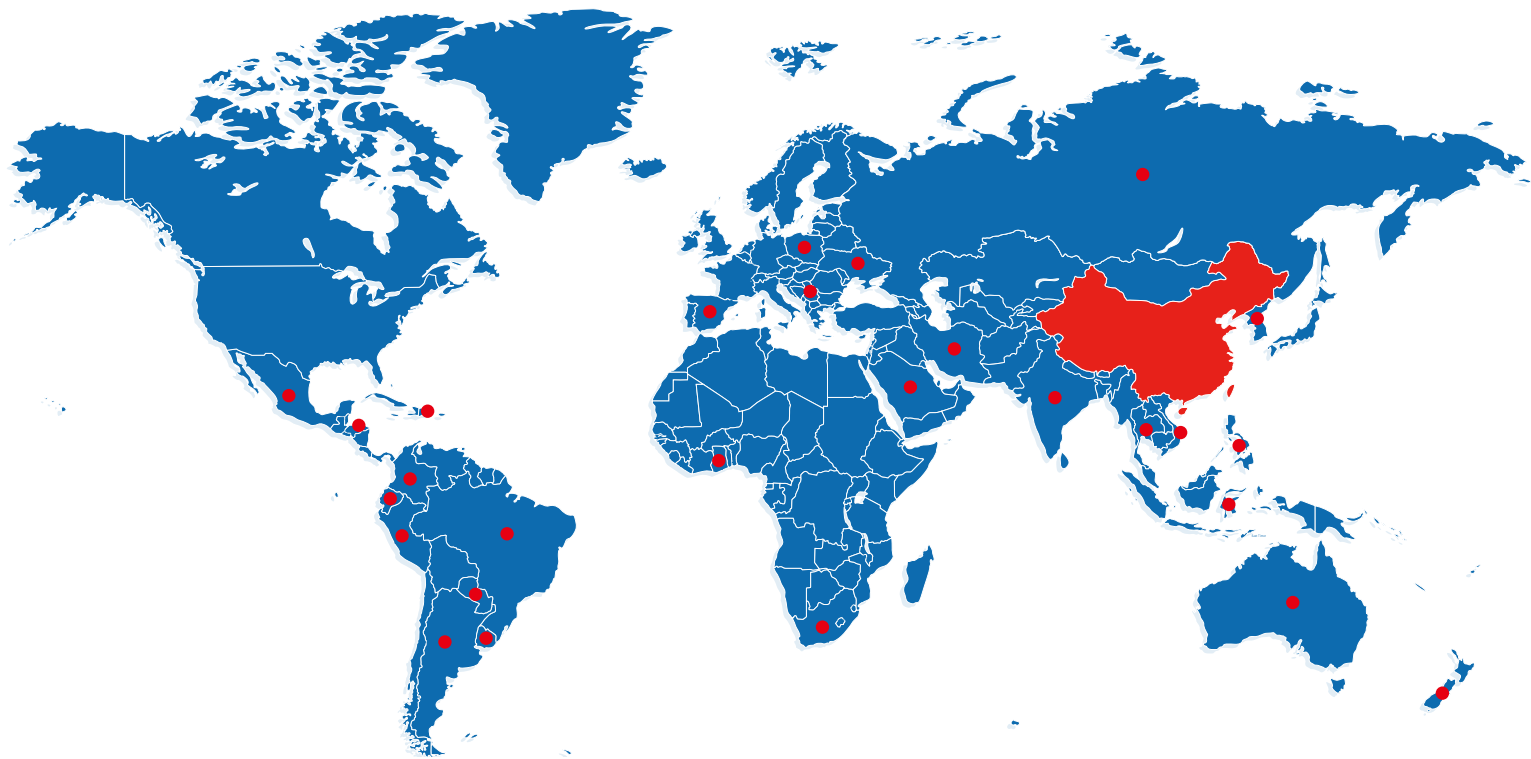


First-rate service



完善的服务网络

Global Sales and Services Network



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 Control system and operator
Independent research and development of control system, man-machine operation box 13-14



02 Features of V series products 15-16

03 V series small servo manipulator
V-800I(H)S,V-900I(H)S,V-1000I(H)S 17-18



04 V series small servo manipulator
V-1100I(H)D,V-1300I(H)D,V-1500I(H)D,V-1700I(H)D 19-20



05 V series small servo manipulator
V-2000I(H)D,V-2500ID,V-3000ID 21-22



06 Special manipulator
XTC , XTS , XTH , XTSL/D/DL 23-26



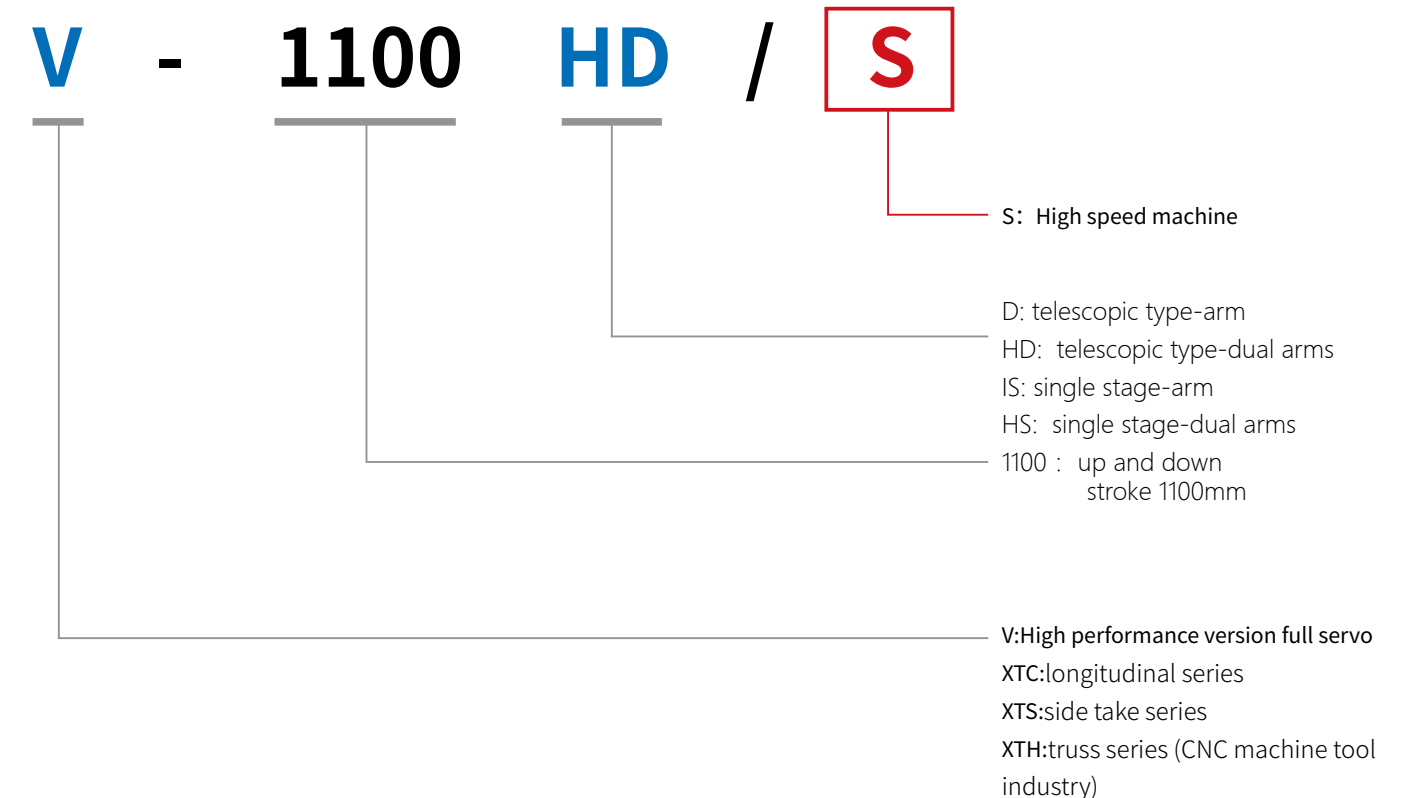
07 Other introduction
At the end of inversion, fixture case 27-28



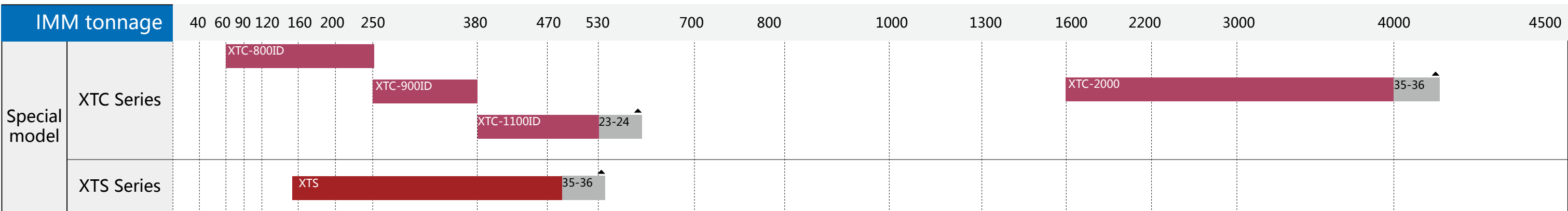
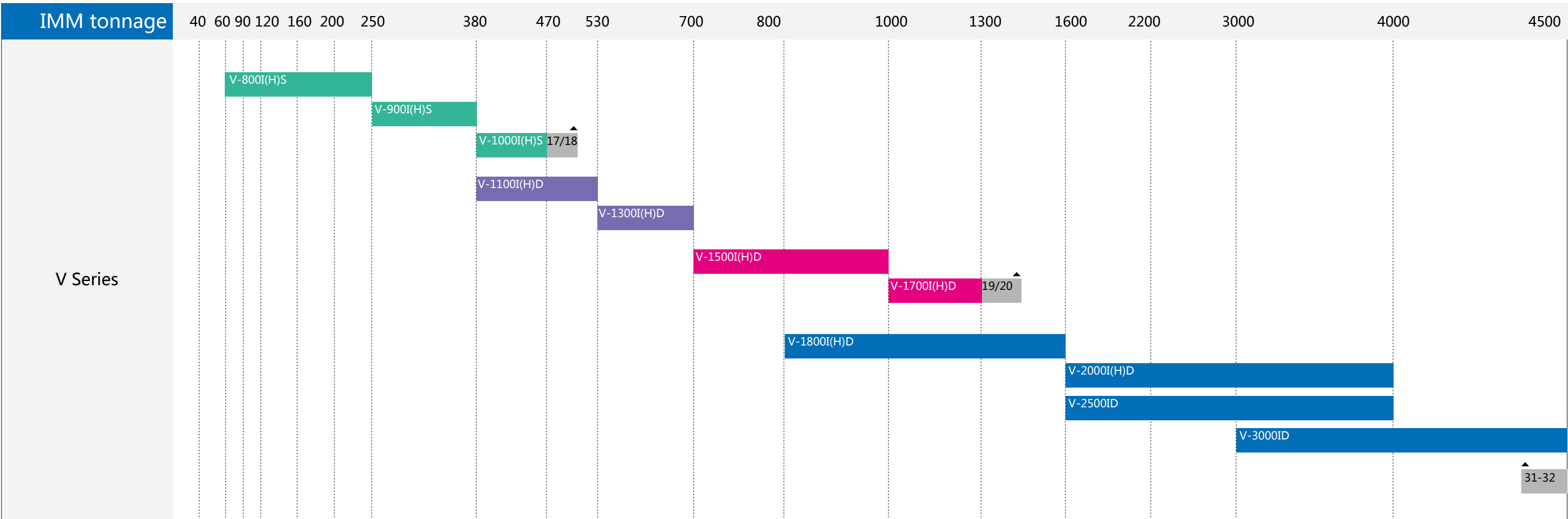
08 Automation projects
Feed, robot manipulator automation, automation, automation of periphery 29-34



Product naming rules



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

Drive your excellence



The independent control system

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

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



More versatile, faster bus connections -- EtherCAT bus connection

- > controllers and IO modules and servo drivers are connected by the more common EtherCAT bus
- > EtherCAT bus communication rate reaches 150Mbps for higher transmission speed and stability



More efficient and convenient teaching device

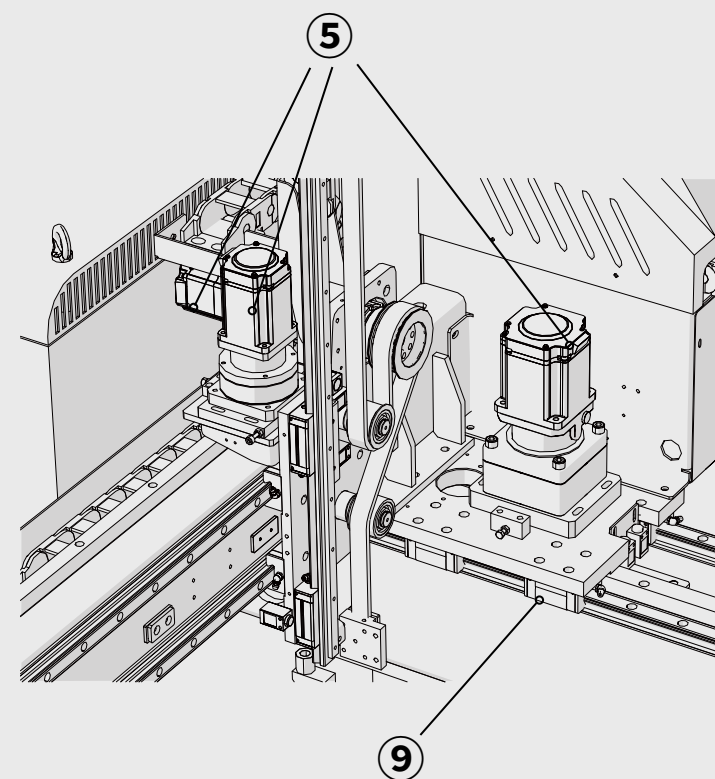
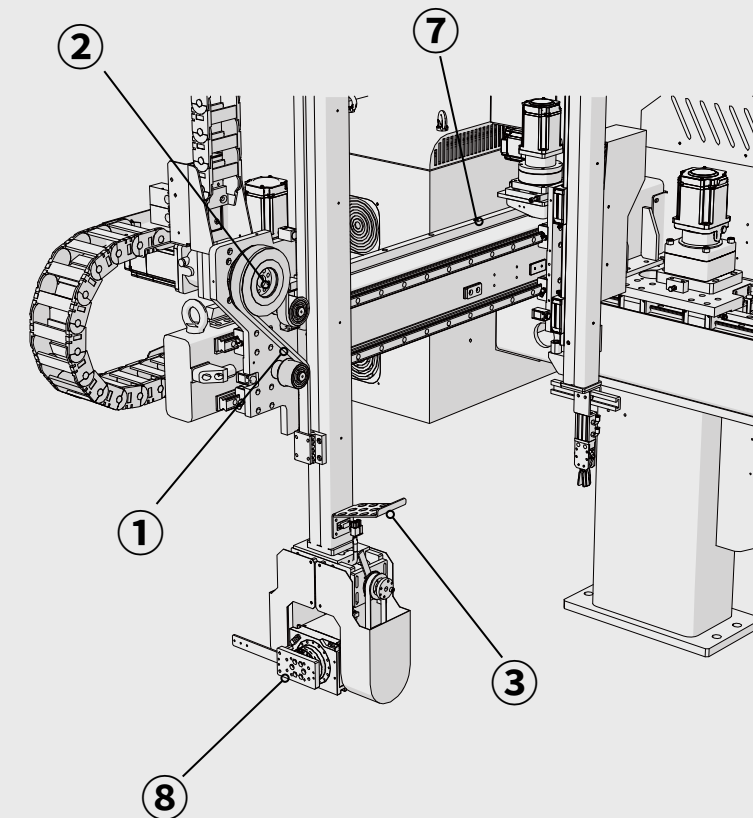
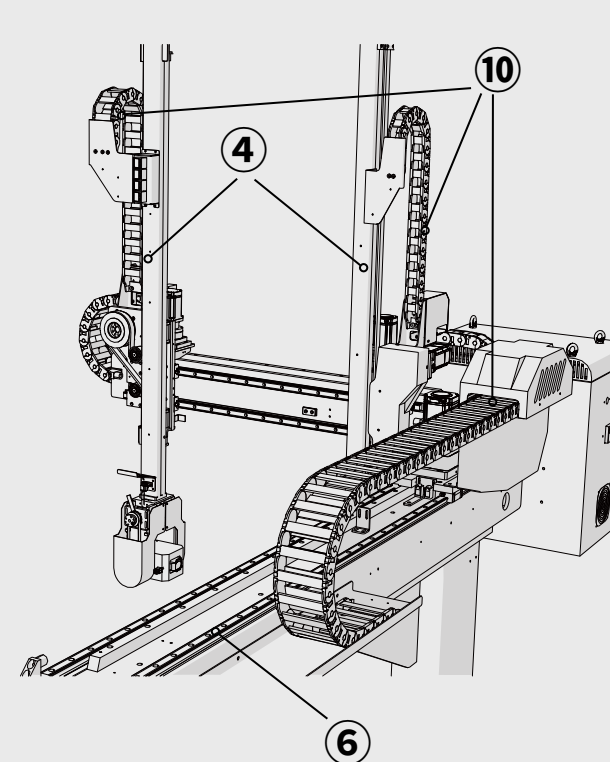
- > is equipped with a 7.0-inch IPS screen, emergency stop switch and three-stage enable switch
- > appearance design conforms to human body science, strong grip

Vseries

Product structure features



High load · More efficient · More stable



- | | |
|----|--|
| 1 | Low maintenance and accurate high quality belt drive |
| 2 | Reasonable structural design ensures efficient movement |
| 3 | Pneumatic extension plate |
| 4 | High strength steel structure design |
| 5 | Servo motor drive, high efficiency and stability |
| 6 | X axis high precision guide system, using linear guide |
| 7 | Rack transmission to ensure the stability of the operation process |
| 8 | Expandable end turning shaft (optional) |
| 9 | Centralized oil supply (ensure smooth operation) |
| 10 | High quality chain, ensure the movement replacement process |

V-I(H)S

Small model series

High performance full
servo suspension

Fit 60 - 470t 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
V-800IS	Single-cut suspension		60 ~ 250	2571	1566	1868	1.2	AC single-phase 200V±10% 50/60HZ	4.5	0.5	2.1	Full servo drive	1.98	6.89	8	8.8	295
V-800HS			60 ~ 250	2571	1566	1897	2.1		4.5	0.5	2.1		1.98	6.89	8	8.8	320
V-900IS			250 ~ 380	2751	1566	2038	1.2		4.5	0.5	2.1		1.98	6.89	8	8.8	305
V-900HS			250 ~ 380	2751	1566	2067	2.1		4.5	0.5	2.1		1.98	6.89	8	8.8	335
V-1000IS			380 ~ 470	2991	1566	2158	1.2		4.5	0.5	2.1		1.98	6.89	8	8.8	310
V-1000HS			380 ~ 470	2991	1566	2187	2.1		4.5	0.5	2.1		1.98	6.89	8	8.8	340

Characteristics of product

- >The whole machine uses steel, more stable.
- >More load and faster speed, compared with other series of the same size.
- >Simple operating system to easily learn.
- >The front and rear axes use linear bearing to bear high speed movement and ensure low friction, high rigidity and high precision.



Automotive



Logistics

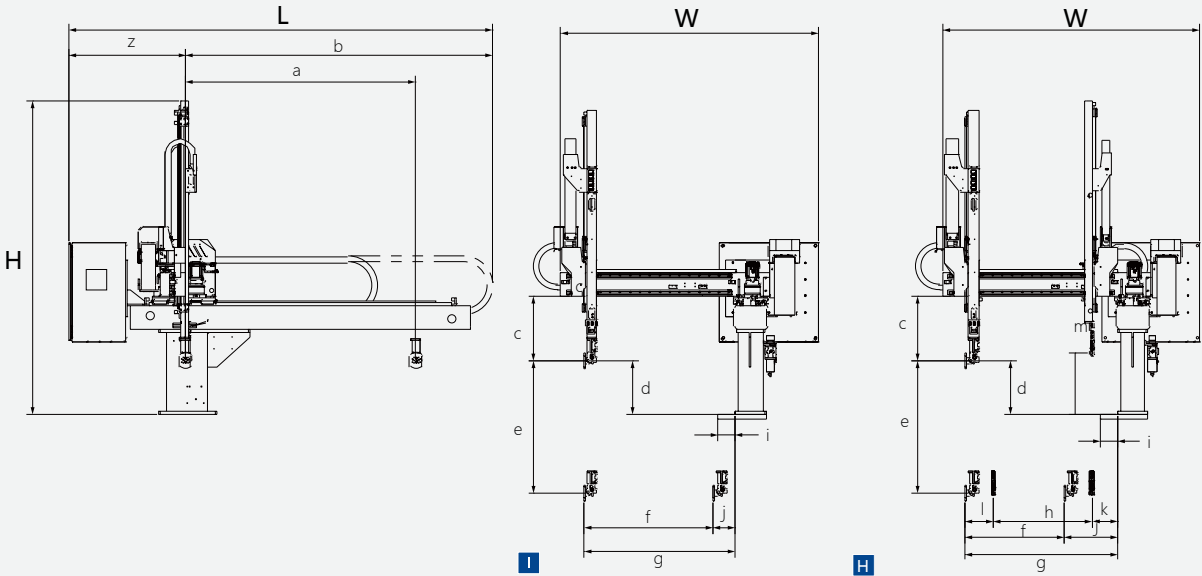


Household
appliance



Civilian

尺寸参数



Model	V-800		V-900		V-1000		类型
	V-800IS	V-800HS	V-900IS	V-900HS	V-1000IS	V-1000HS	
a	1400	1400	1600	1600	1800	1800	a
b	1863	1863	2043	2043	2283	2283	b
c	391	391	391	391	391	391	c
d	320	320	370	370	370	370	d
e	800	800	900	900	1000	1000	e
f	790	600	790	600	790	600	f
g	900	900	900	900	900	900	g
h	/	600	/	600	/	600	h
i	100	100	100	100	100	100	i
j	110	300	110	300	110	300	j
k	/	150	/	150	/	150	k
l	/	150	/	150	/	150	l
m	/	365	/	415	/	415	m
z	690	690	690	690	690	690	z

V-I(H)S
Small model series

High performance full
servo suspension

Fit 380 - 1300t IMM
More efficient
More stable



Basic reference

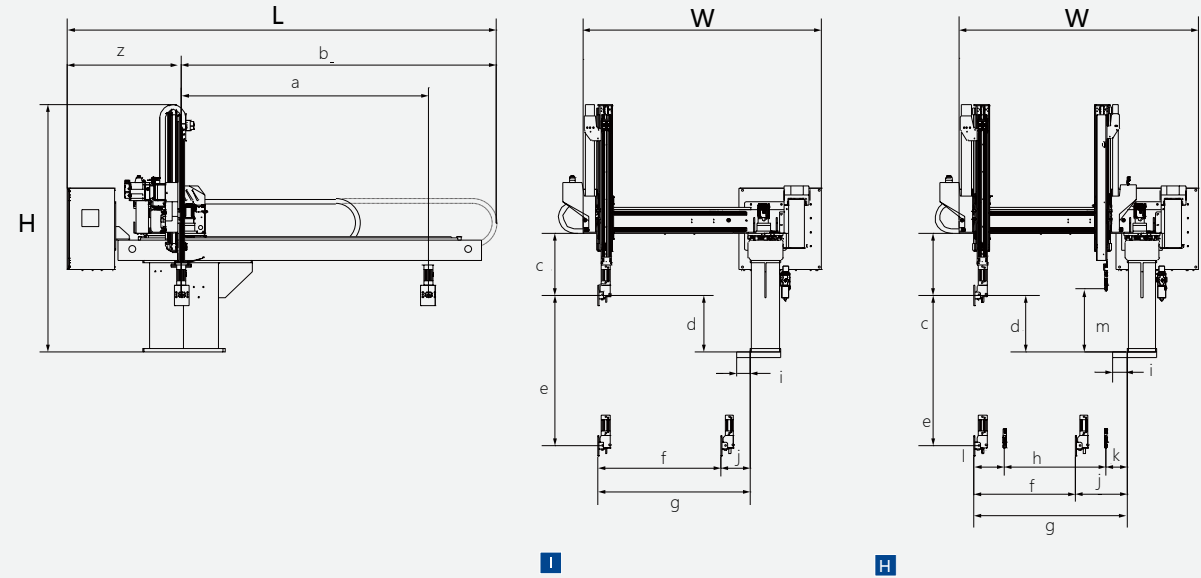
Unit 机型	Form of boom	IMM	Length	Width	Height	Power to be consumed	Power supply	Capacity of power supply equipment	Air pressure	Amount of air to be consumed	Type of drive	Minimum pickup time	Full-circulation time (not including fixture)	Maximum load (including fixture)	Post torque	Weight
	-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
V-1100ID	Double-section frame	380 ~ 530	3097	1777	1790	2.1	AC single-phase 200V±10% 50/60HZ	4.5	0.6	1.1	Full servo drive	2.84	7.78	12	8.8	295
V-1100HD		530 ~ 700	3097	1777	1790	2.9		4.5	0.6	1.1		2.84	7.78	12	8.8	320
V-1300ID		380 ~ 530	3097	1777	1790	2.1		4.5	0.6	1.1		3.42	8.23	12	8.8	305
V-1300HD		530 ~ 700	3097	1777	1790	2.9		4.5	0.6	1.1		3.42	8.23	12	8.8	335
V-1500ID		700~1000	3990	2254	1980	2	AC Three-phase 200V±10% 50/60HZ	5	0.35	6.7		3.61	12.7	20	45/0.6Mpa	850
V-1500HD		700~1000	3990	2254	1980	2.1		5	0.35	6.7		3.61	12.7	20	45/0.6Mpa	890
V-1700ID		700~1000	3990	2254	2100	2		5	0.35	6.7		3.61	12.7	18	45/0.6Mpa	865
V-1700HD		700~1000	3990	2254	2100	2.1		5	0.35	6.7		3.61	12.7	18	45/0.6Mpa	905

Characteristics of product

- > The whole machine uses steel, more stable.
- > More load and faster speed, compared with other series of the same size.
- > Simple operating system to easily learn.
- > The front and rear axes use linear bearing to bear high speed movement and ensure low friction, high rigidity and high precision.



Size & Data



Type	V-1100		V-1300		V-1500		V-1700		Type
	V-1100ID	V-1100HD	V-1300ID	V-1300HD	V-1500ID	V-1500HD	V-1700ID	V-1700HD	
a	1800	1800	1800	1800	2500	2500	2500	2500	a
b	2226	2226	2226	2226	3075	3075	3075	3075	b
c	410	410	410	410	580	580	580	580	c
d	410	410	410	410	130	130	130	130	d
e	1100	1100	1300	1300	1500	1500	1700	1700	e
f	900	666	900	666	1280	1020	1280	1020	f
g	1118	1118	1118	1118	1530	1530	1530	1530	g
h	/	666	/	666	/	1055	/	1055	h
i	100	100	100	100	100	100	100	100	i
j	218	452	218	452	250	510	250	510	j
k	/	152	/	152	/	250	/	250	k
l	/	295	/	295	/	225	/	225	l
m	/	460	/	460	/	135	/	135	m
z	871	871	871	871	708	708	708	708	z
Explanation									

V-I(H)D
Large series

Full-servo double-cut
frame model

Fit 800 - 4500t 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
		-	ton	mm	mm	mm	kw	-	KVA	Mpa	NL/cycle	-	s	s	kg	N.m	kg
	XTA-2000I(H)D	Double-section frame	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

- >V 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)-axle 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 V-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

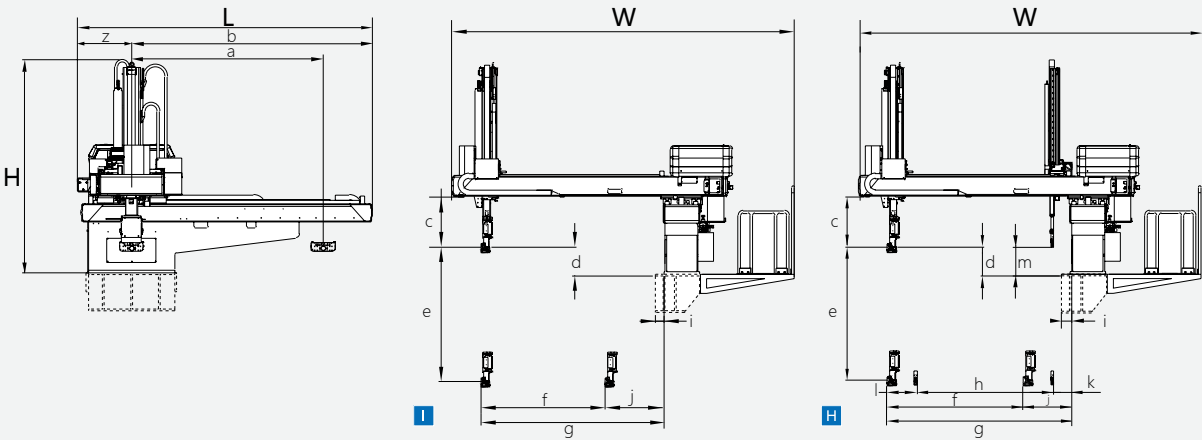


Household appliance



Civilian

Size & Data

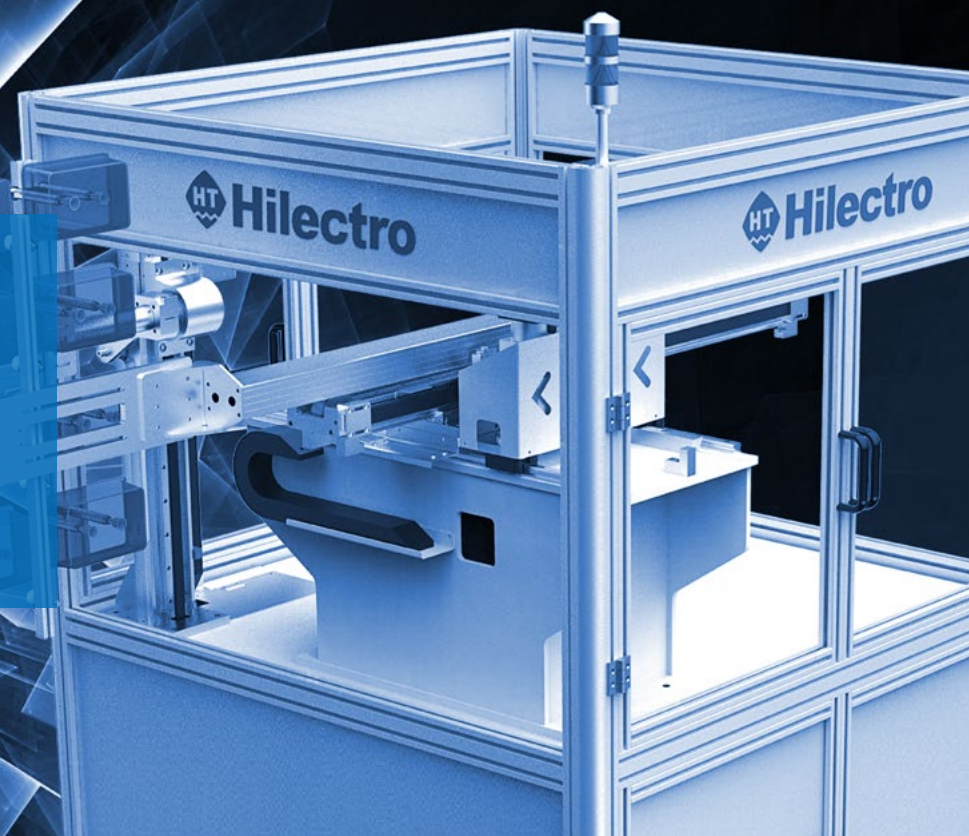


Type	V-2000		V-2500	V-3000	Type
	V-2000ID	V-2000HD	V-2500ID	V-3000ID	
a	3000	3000	3600	4000	a
b	3405	3405	4300	4700	b
c	555	555	761.5	761.5	c
d	250	250	403	403	d
e	2000	2000	2500	3000	e
f	1590	1415	1600	1600	f
g	1800	1800	2150	2150	g
h	-	1415	-	-	h
i	10	10	40	40	i
j	300	525	550	550	j
k	-	180	-	-	k
l	-	310	-	-	l
m	-	300	-	-	m
z	610	610	700	700	z
Remark			Note: V-2500IDfor the standard machine, up and down the OP Travel e value optional: 2000	Note: V-3000ID refers to the machine having double main booms, and the V-3000tHD can be customized.	Remark

XTS

Side-take series

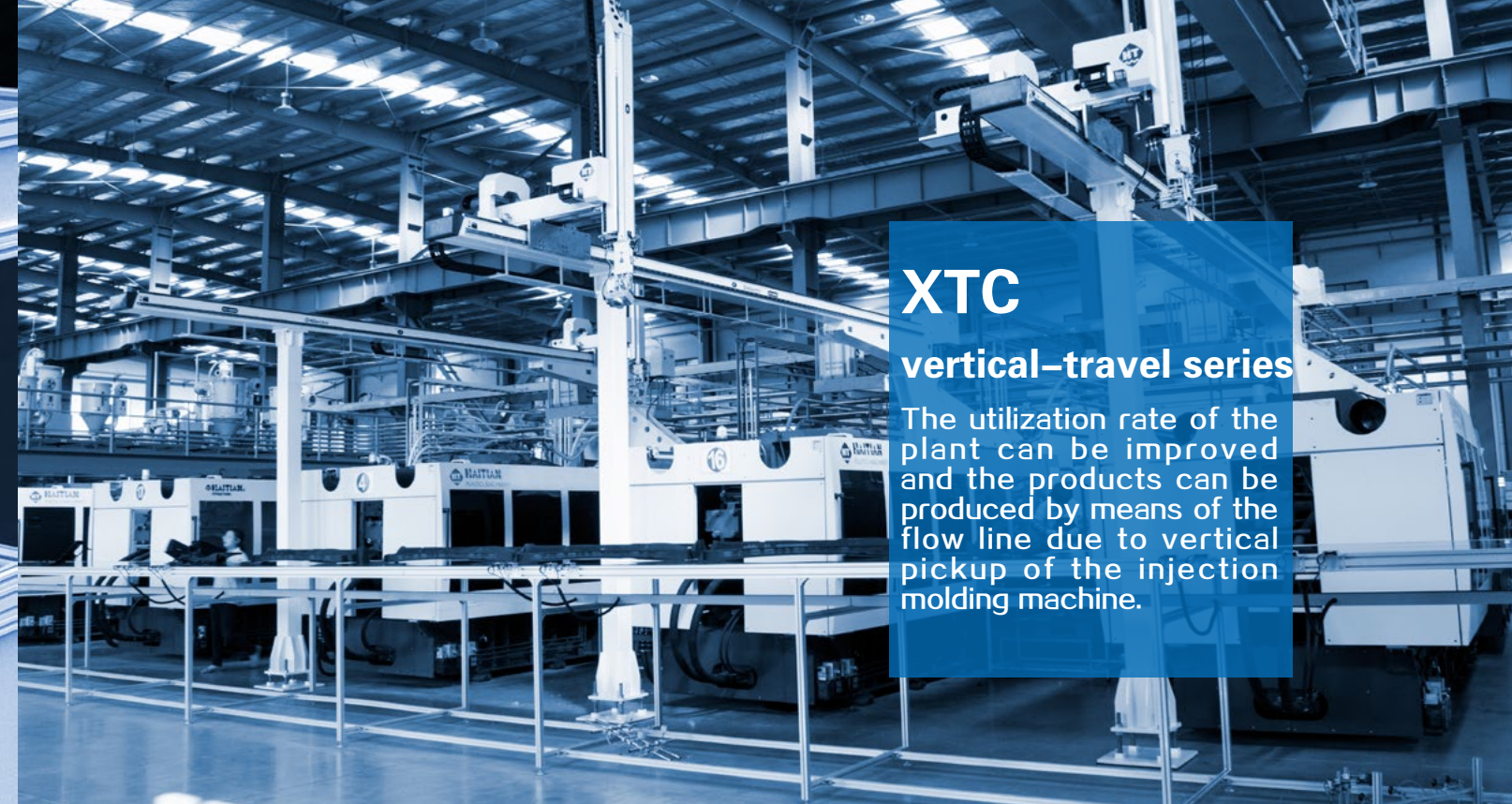
Fast-food box side-take model



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

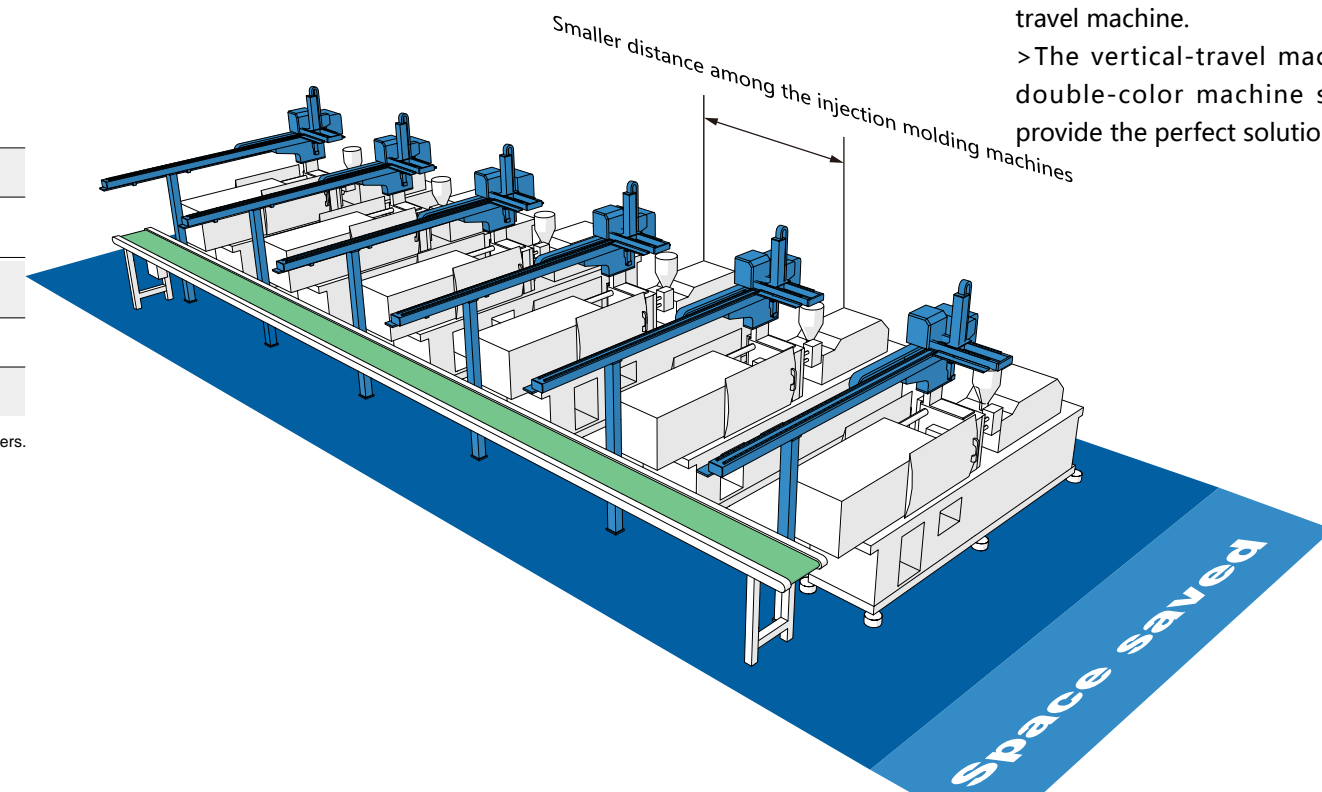
*Please see the product page for specific parameters.

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

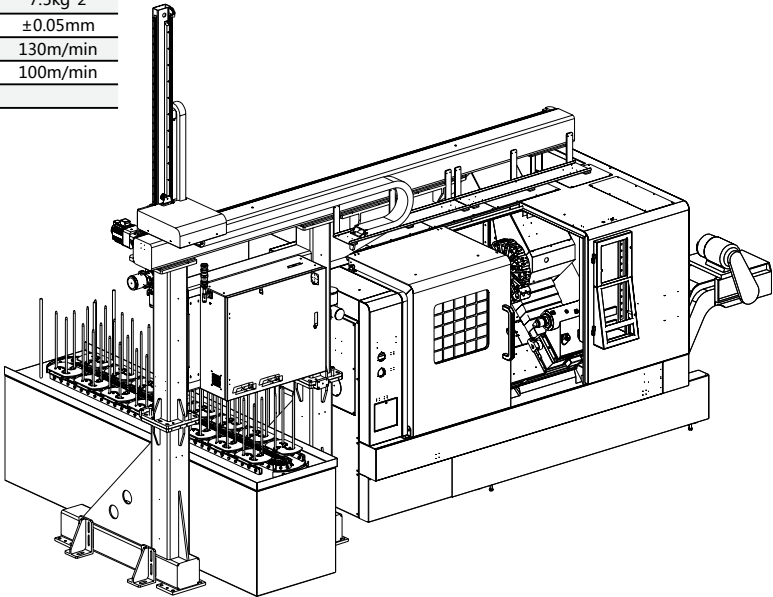


XTSL/D/DL
Labelling series
In-mold labelling
model

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.

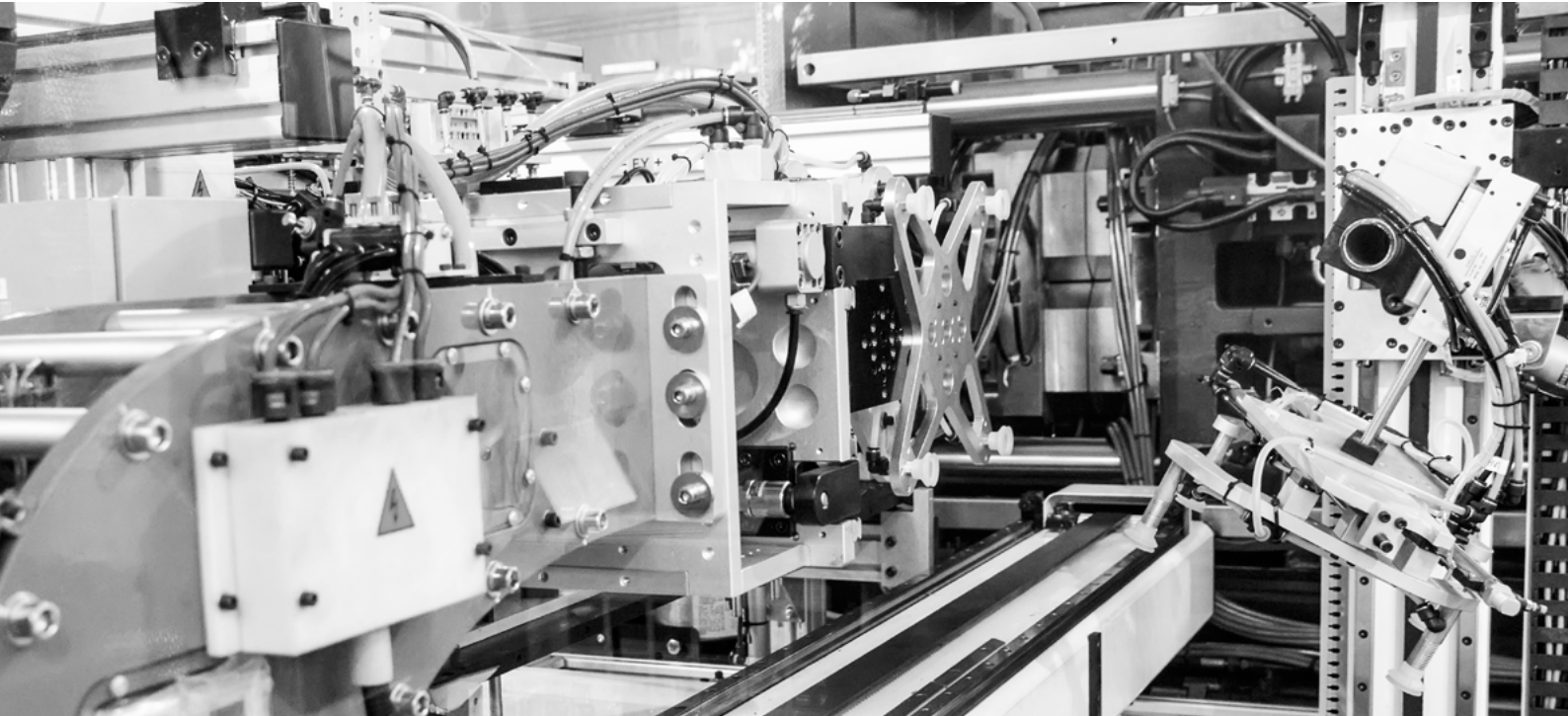
	Parameter			
models	XTH003	XTH005	XTH010	XTH015
The biggest clip weight	1.5kg*2	2.5kg*2	5kg*2	7.5kg*2
Repeat positioning accuracy	±0.05mm	±0.05mm	±0.05mm	±0.05mm
The X axis maximum speed	130m/min	130m/min	130m/min	130m/min
The Z axis maximum speed	100m/min	100m/min	100m/min	100m/min
Drive way	Servo + 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 ⁰ / ₀₀

*Please see the product page for specific parameters.

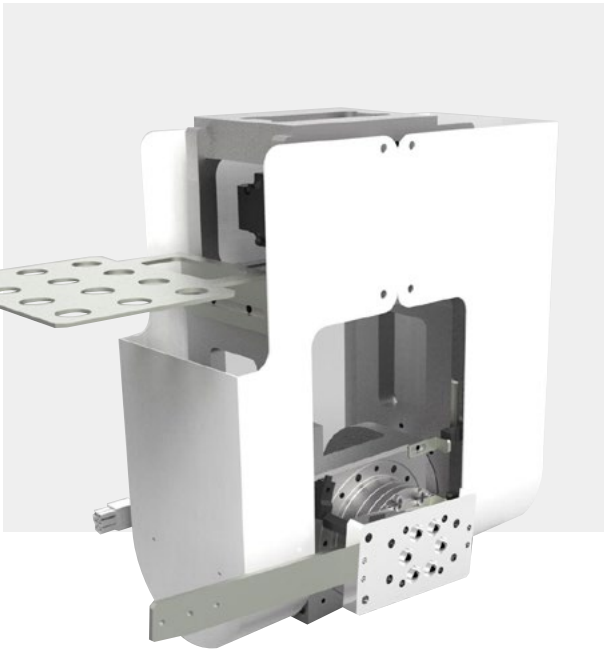


Manipulator terminal extension



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



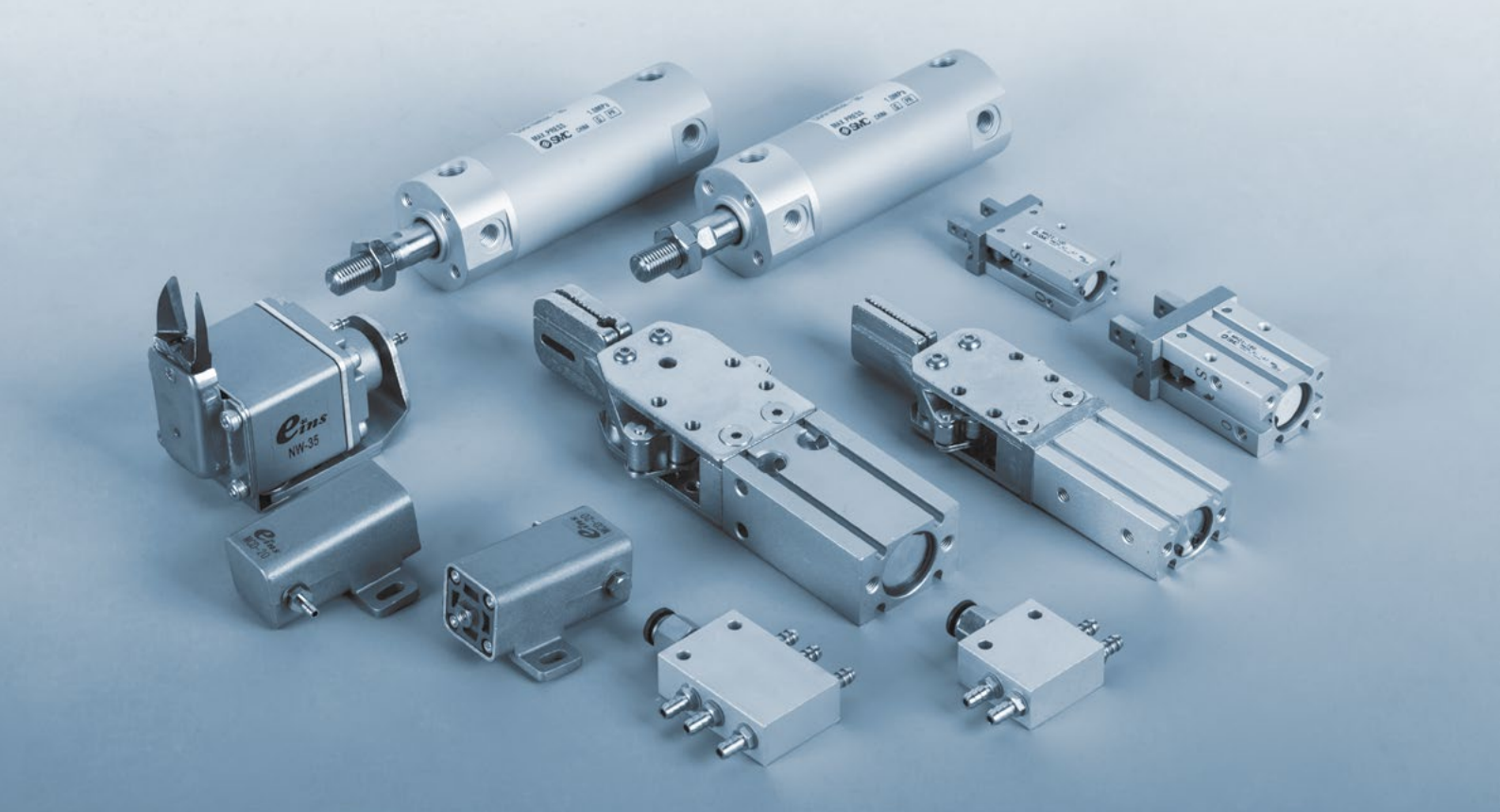
B Axes

Applicable type	Load capacity (kg)
1100	8



C Axes

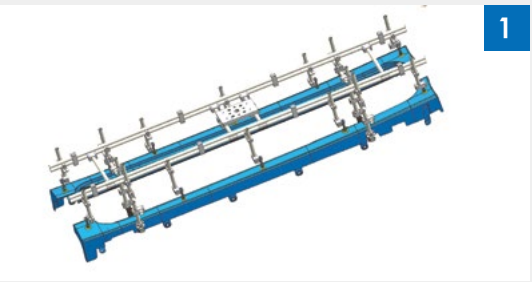
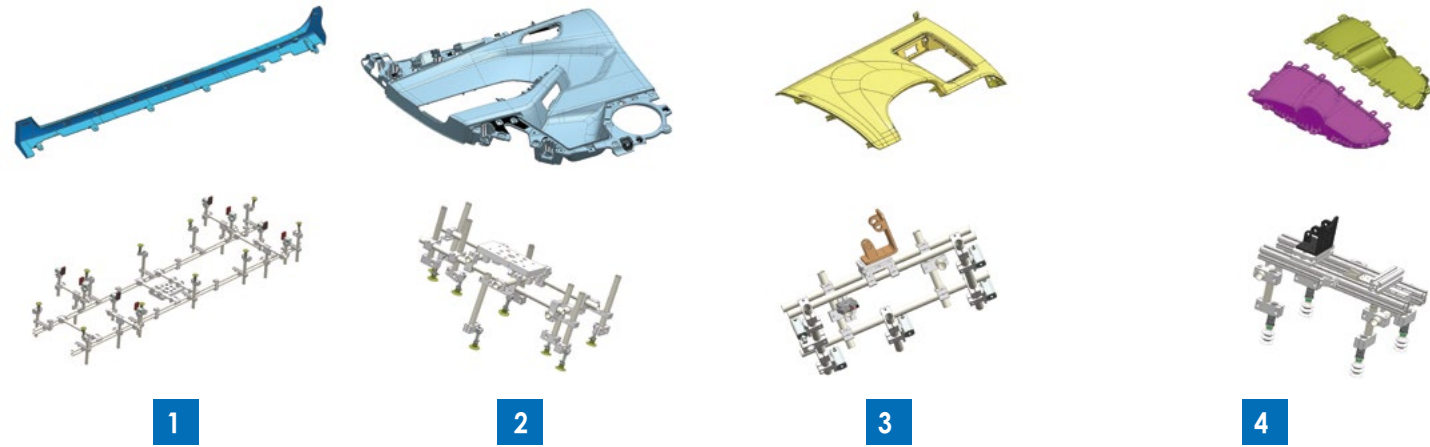
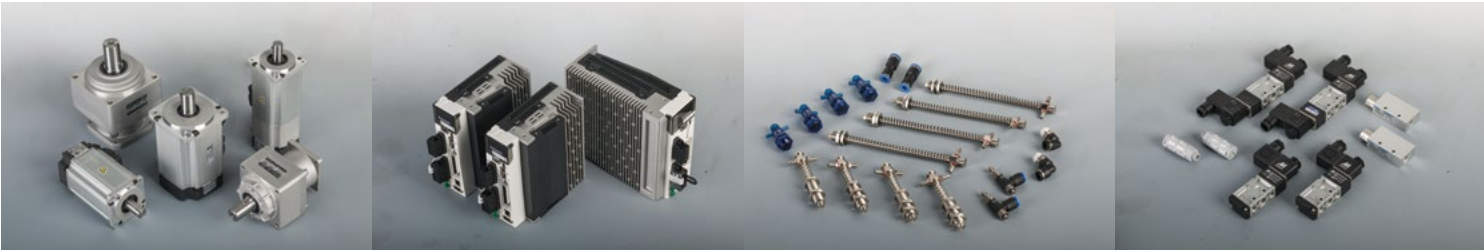
Applicable type	Load capacity (kg)
800	8
1100	8
1500	15
1800	30
2000	40/60



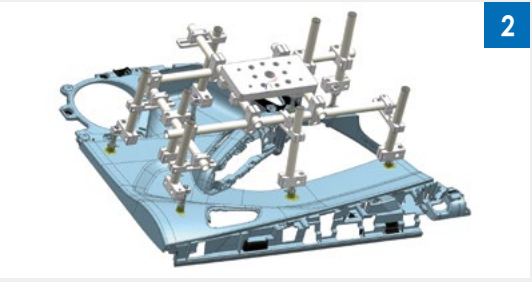
Super Accessory, Top quality .

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

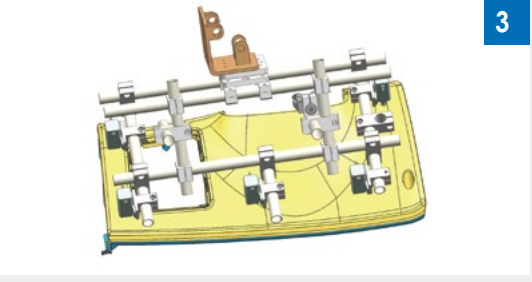
High class product is based on wonderful accessory,
The all pneumatic accessory, electric elements are
applied with Japanese ,Germany brand.
With high quality and good reputation. The mechanical
parts are applied with foreign top steel materials, and
processed with advanced equipment. In this way, we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



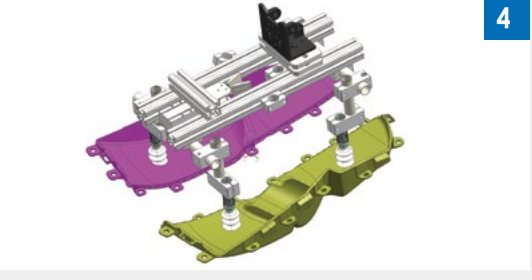
1 Description: The products belong to rib form, with a certain circular measure, and apply with stainless steel for fame-works, to make sure its solid and strength requirement, meanwhile, may adjust adsorbent angle to make perfect level adsorbing effect.piston seizure may assist to carry the products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



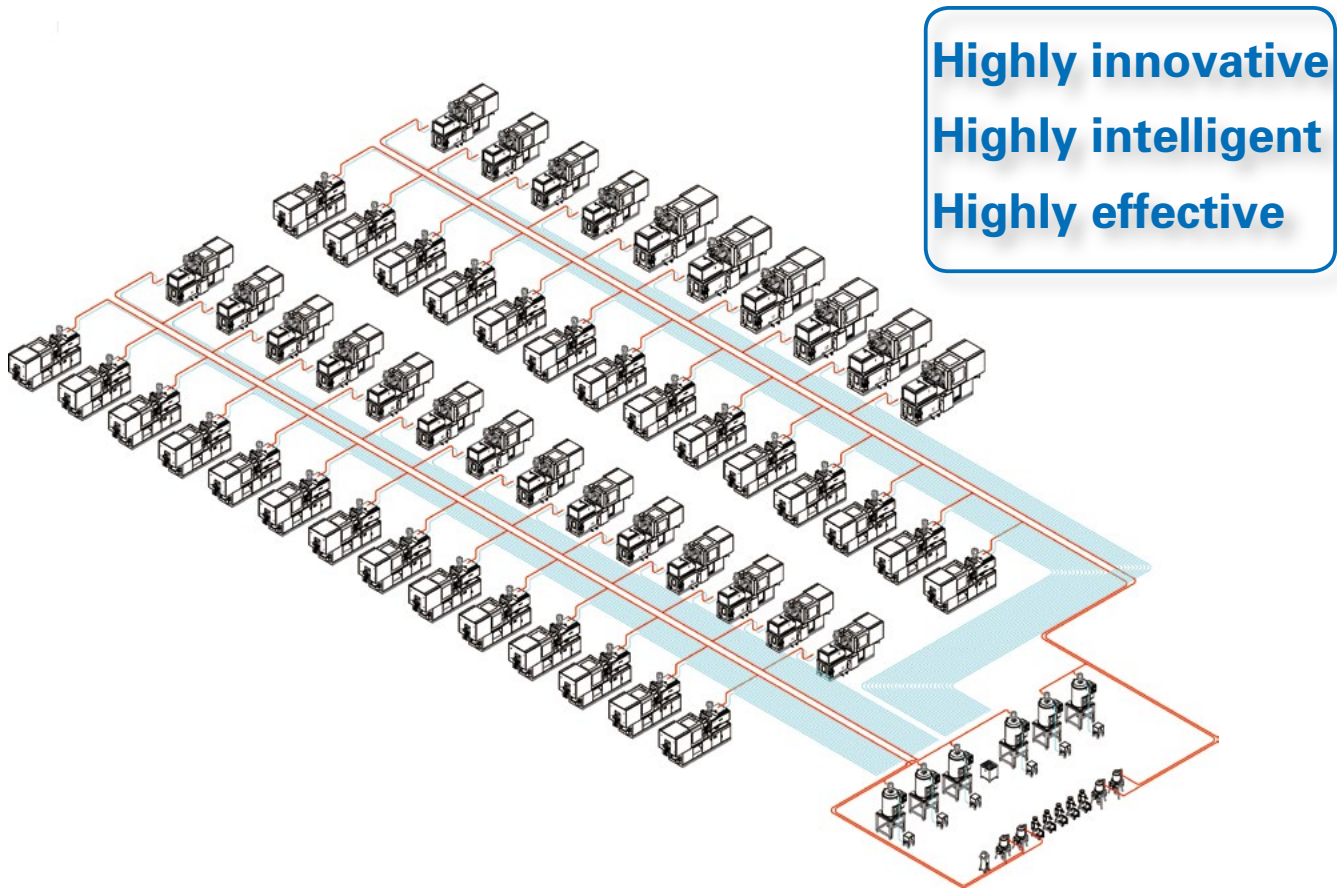
3 Description: with irregular design , and stainless steel tube for frame-works, meanwhile, the mold' s ejection distance is limited, and applied with adsorbing tank to make automatically. And also apply optional nozzle gripper to carry the handles of the products.



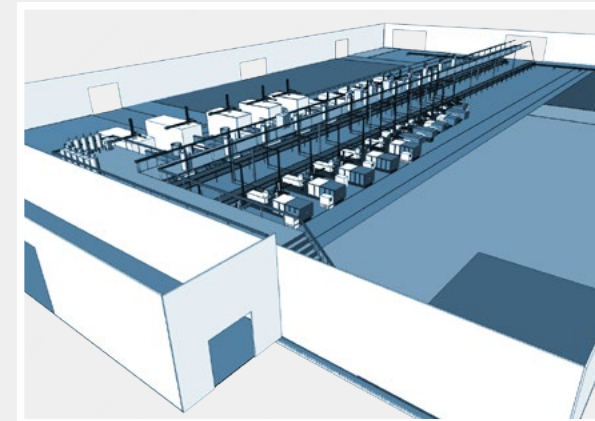
4 Description: The product is designed with irregular parts, but may adsorb between level parts, then apply aluminum for frame-works to ensure its steadiness. Optional gripper may carry dual channel with inspecting signal .



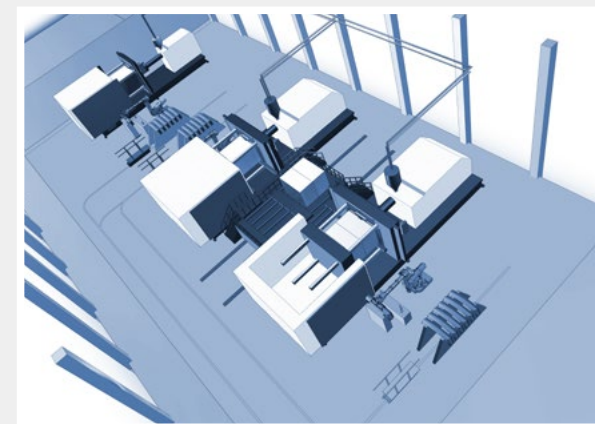
Integral Delivery system
Flow-line production
To build a modern and innovative factory



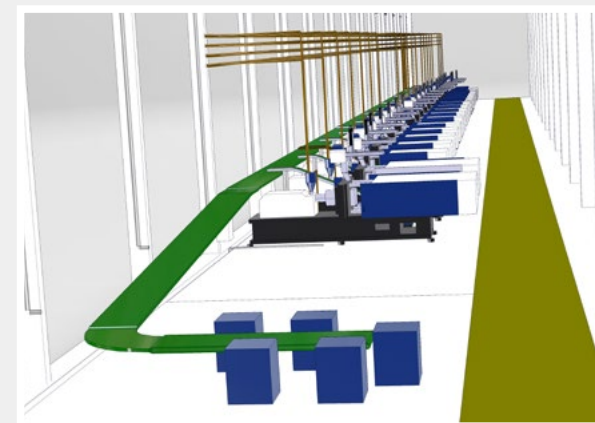
Highly innovative
Highly intelligent
Highly effective



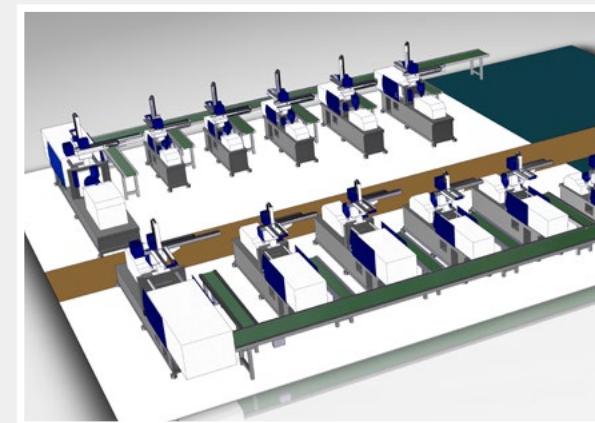
Layout of new workshop for integral delivery system



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.



◀ Sheet metal bending



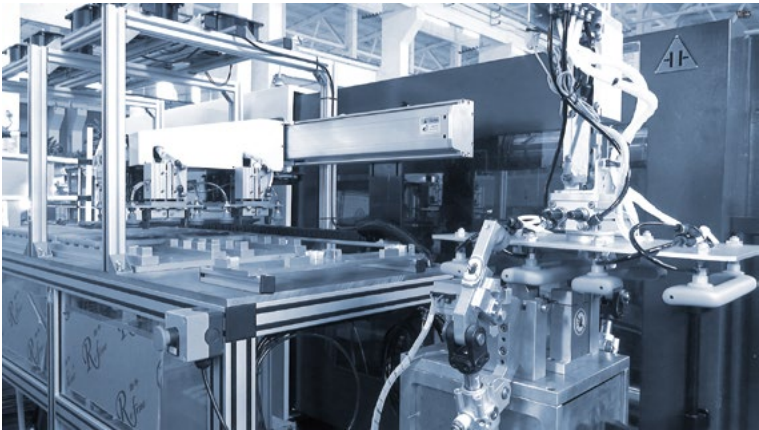
◀ Robot pick-up, flame, pruning, excitation
Light code



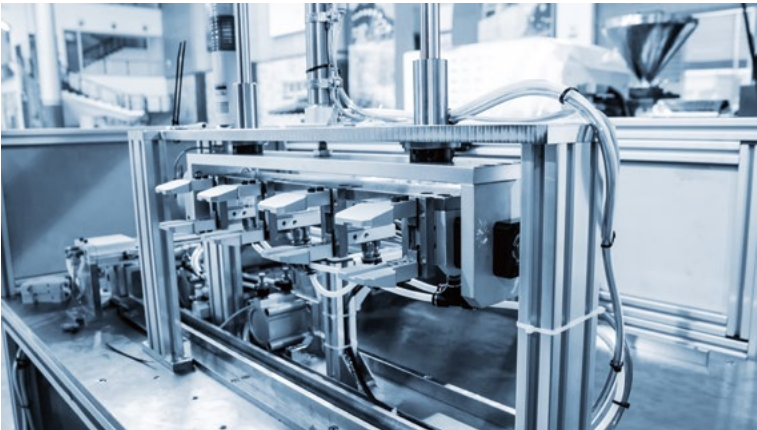
◀ Mechanical up-side pickup, LD Clipping, dual flow-line.



◀ 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

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.