

We supply Take-out Robot, Factory Automation, Auxiliary Equipment,
Auto Feeding system as an Integrated Engineering Solution provider.

Consilience **Technology**

English

YUDO-SUNS Take-Out Robot



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This catalogue provides a customer with product image and the information.
All reference specifications are subjected to change without prior notice.

| Take-Out Robot _ 1608 |

Consilience Technology

The Leader of Injection Molding Industry

YUDO-SUNS is one of the affiliated companies of YUDO Group which is the global leader of Hot Runner system in plastic industry. We supply Take-out Robot, Factory Automation, Auxiliary Equipment, Auto-Feeding system as a total solution provider. We have done our level best to increase customer's revenue and improve their productivity since 1988 through the development of factory automation system and the know-how of various heat exchanging system.



Company HISTORY

- | | | |
|------|----|---|
| 1980 | 12 | Established YUDO |
| 1988 | 5 | Developed and marketed Take-out Robot |
| 1992 | 3 | Established YUDO-STAR (Seoul)
(Joint company with STAR SEIKI (Japan)) |
| | 10 | Launched into export Take-out Robot |
| 2000 | 1 | Established YUDO-STAR R&D center |
| | 8 | Established YUDO-SUNS (Auxiliary equipments) |
| 2005 | 5 | Established YUDO-ROBOTICS (Gantry loader, Human server) |
| 2007 | 4 | Opened AUTO-FEEDING exhibition |
| 2008 | 11 | Established WEIHAI YUDO MACHINERY CO., LTD. (China) |
| 2010 | 12 | 30th anniversary of YUDO |
| 2011 | 5 | Awarded 23th Gold Tower Order of Industrial Service Merit
(from the president of Korea) – Francis Yu |
| | 12 | A day of trade : Ten million dollar, prize for top of export |
| 2012 | 3 | Established ValuePro Institute
Education courses of YUDO SCHOOL newly launched |
| | 12 | Established YUDO-SUNS R&D center |
| 2013 | 5 | Patent Registration related to RICH (Heating & Cooling System)
return valve control |
| | 7 | Awarded 31th Commerce & Industry Grand Prix in Productivity
Improvement |
| | 12 | A day of trade : Twenty million dollar, prize for top of export |
| 2014 | 6 | Certified 2008 : YUDO-SUNS ISO 9001 |
| | 8 | Branched into the Confederation of North, Central America
(Mexico – Tijuana , Queretaro) |
| | 10 | Registered Korea Institute of Carbon Convergence Technology. |
| 2015 | 2 | Planning and patent development for Smart Robot Solution |
| | 11 | RICH series : PMS (Preventive Maintenance System) development |
| 2016 | 6 | ICC (Intergrated Clinic Care) system construction |
| | 9 | YUDO Smart factory simulation construction |

Consilience Technology

Injection molding process needs a lot of different element, YUDO is only company to respond directly on customer's requests which are related to various problems of injection molding. We provide a "Turn-key system" according to customer's demands.

1 Take-Out Robot



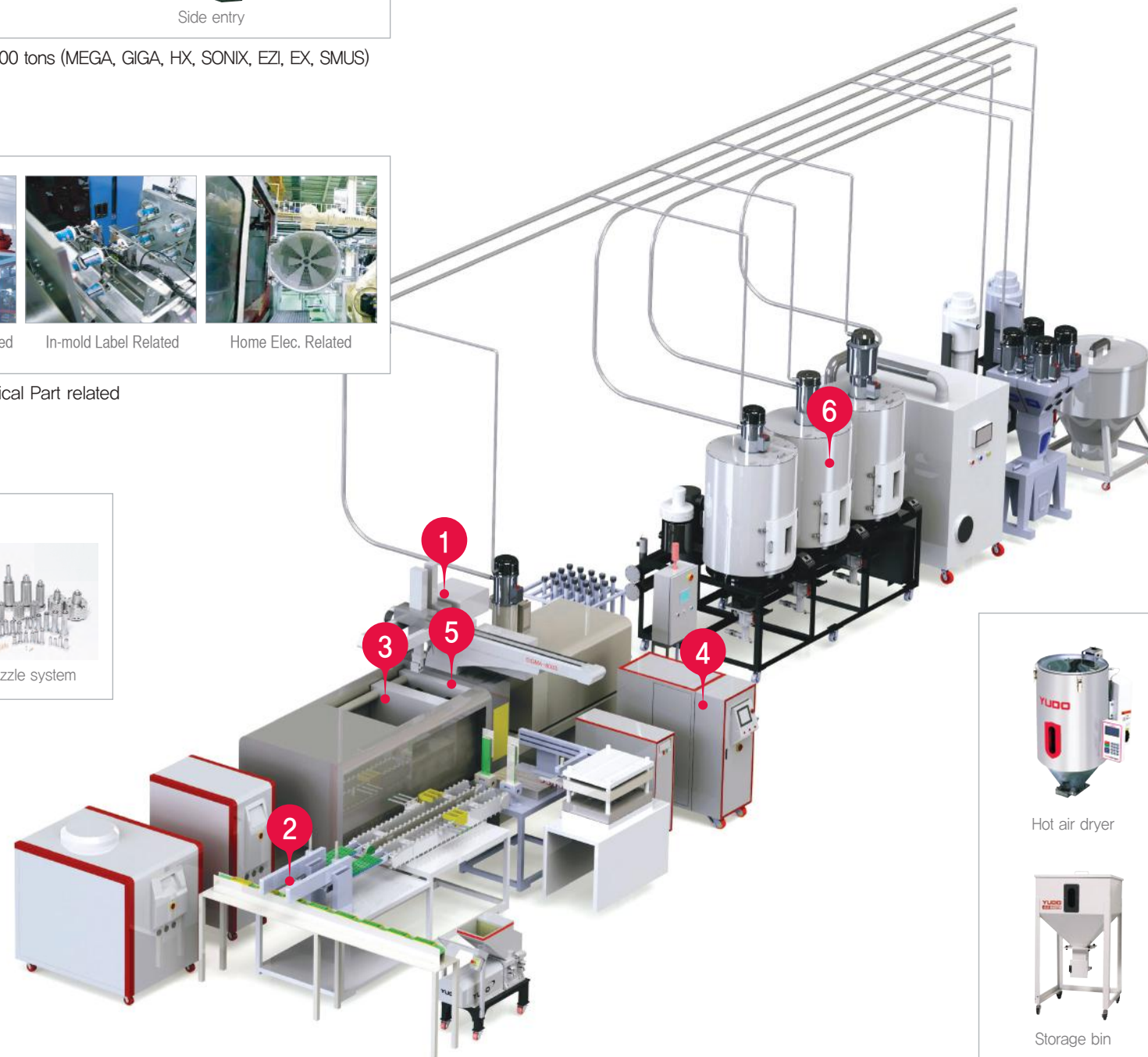
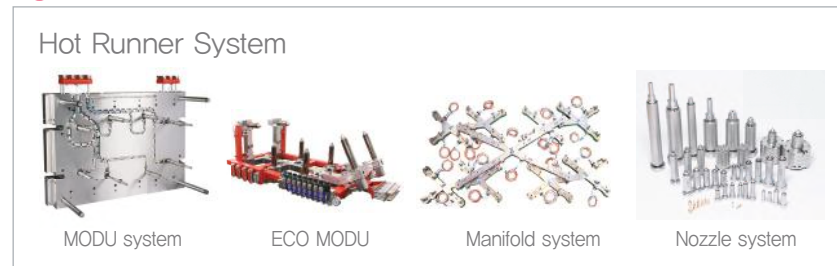
► Applied to the I.M.M machine from less than 30 tons to more than 4000 tons (MEGA, GIGA, HX, SONIX, EZI, EX, SMUS)

2 Factory Automation



► In mold label, Automotive part automation, Mobile automation, Optical Part related

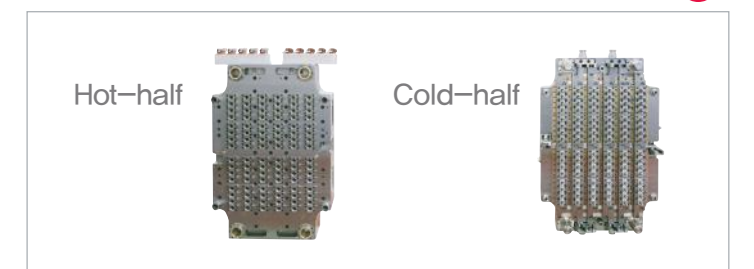
3 Hot Runner Solutions



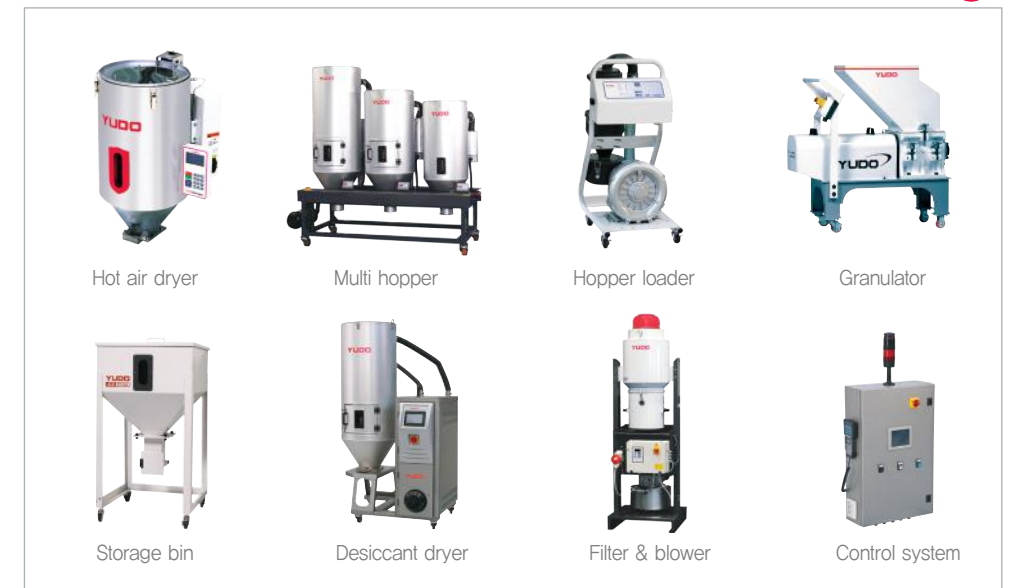
MTC (Mold Temperature Control) 4



PET Preform Total Solution 5



MH (Material Handling) 6



Smart Solution

(IMC Lite with Smart Function)

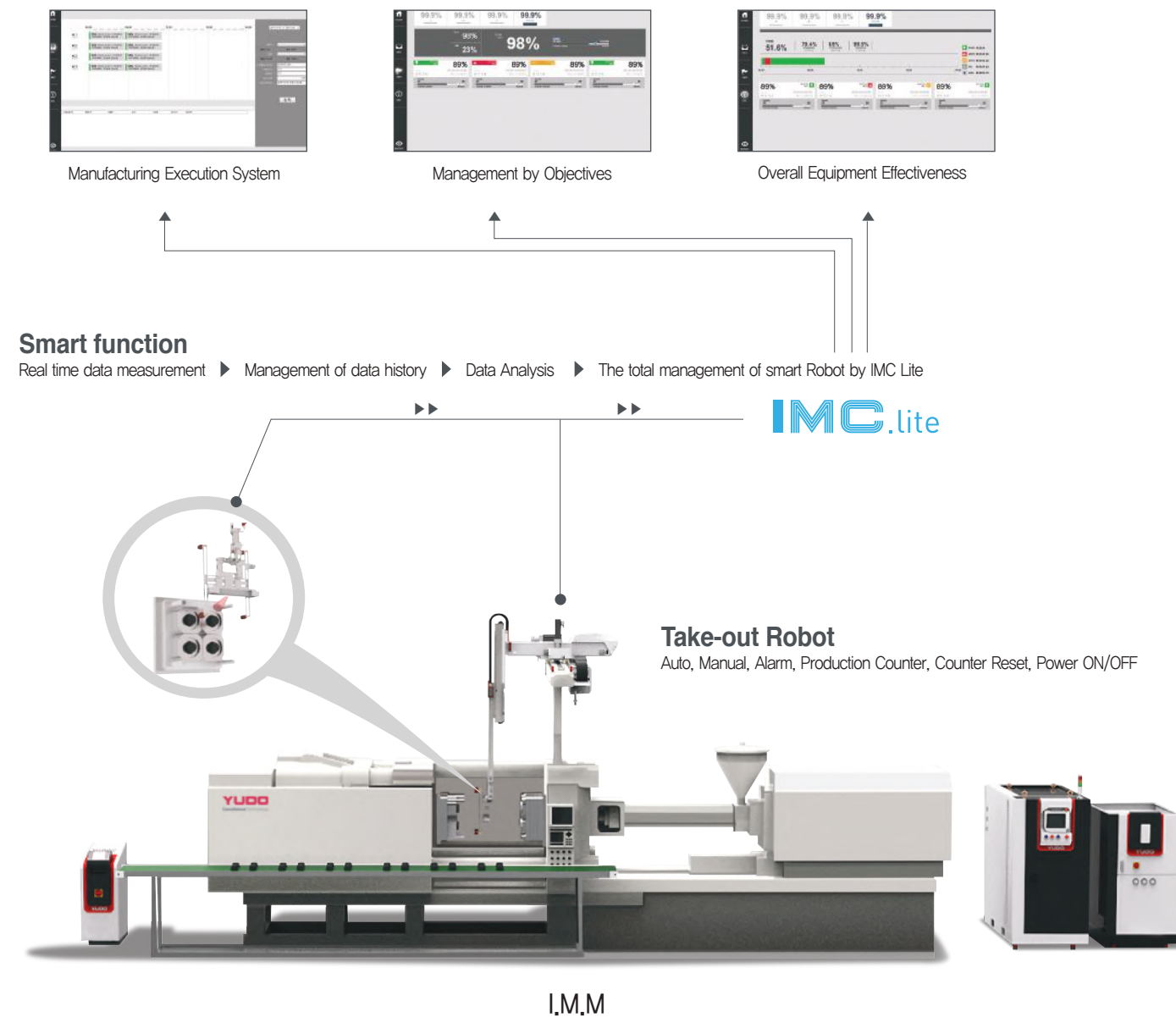
The Smart Solution of YUDO for the effective production plan and processing optimization in the injection molding. IMC Lite provides with the Management By Objective (MBO), Overall Equipment Effectiveness (OEE) and Manufacturing Execution System (MES) based on collected data from the Take-out Robot.

It also supplies the weight measurement, static-electricity removal and smart function based on real-time monitoring. YUDO Smart Solution contributes to customer's revenue by improving productivity in injecting molding process.

IMC.lite

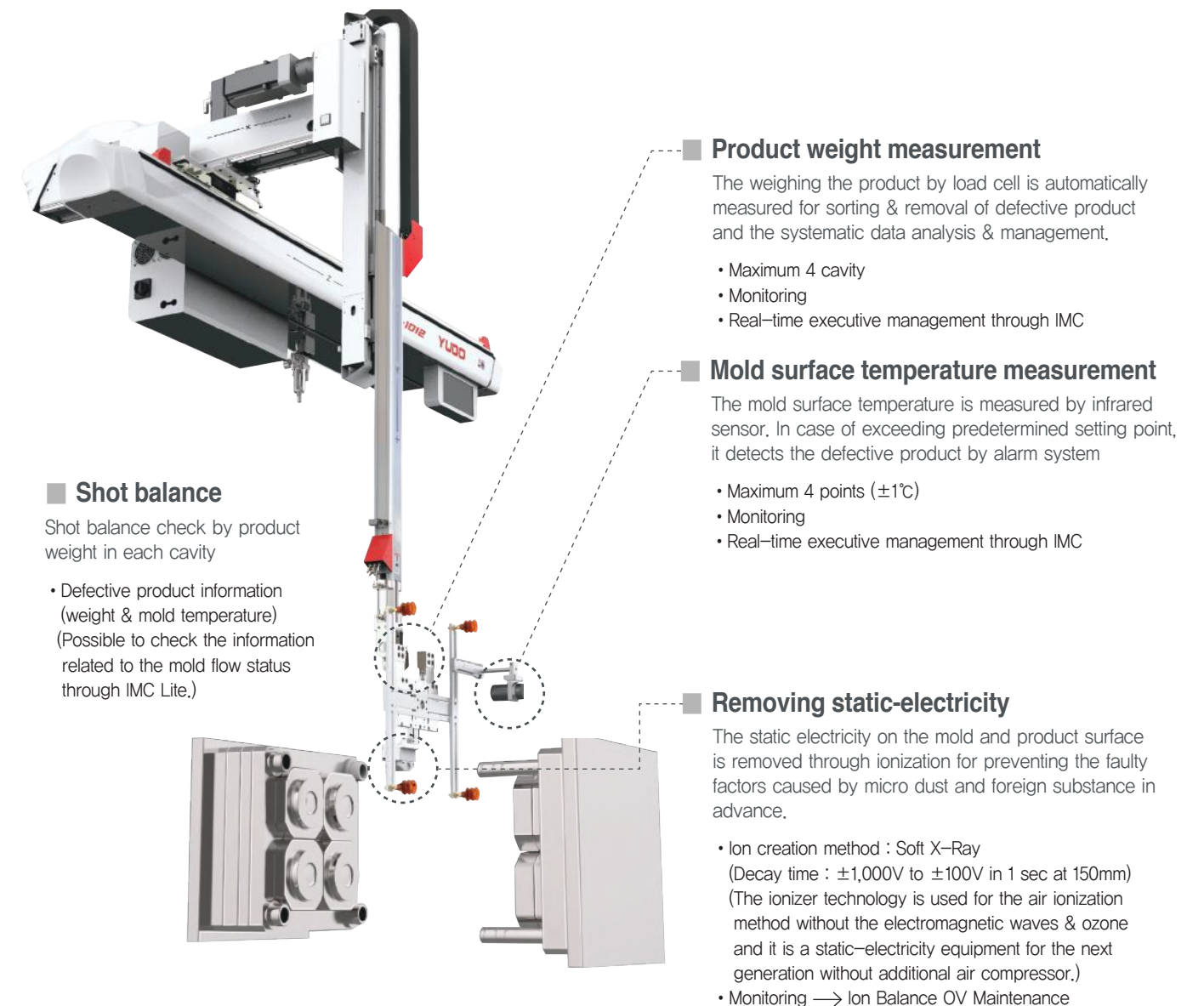
The IMC Lite is the Monitoring System which enables you to easily check about the real time productivity, achievement rate comparing to plan, equipment conditions and production efficiency in one monitor.

The collected data from the Take-out Robot is analyzed by day, week and month for realizing effective production plan.



Smart Function, The core function for improving productivity & quality

The cause of the low quality & productivity is removed in advance by Smart Function in injection molding process. YUDO-SUNS realize a ideal Quality management through the IMC controls real-time monitoring, data analysis, quality control and management ideal of the major factors.



Category	Controller	Mold Clamping force (ton)								Mold Clamping force (ton)								
		Small-sized I.M.M							Middle-sized I.M.M				Large-sized I.M.M					
		30	80	100	150	180	220	350	450	550	850	1000	1300	1600	2000	3000	4500	
Premium	 YUCON-700														GIGA-5025 GIGA-3525			
										GIGA-2015 GIGA-1015		GIGA-2018 GIGA-1018		GIGA-3520 GIGA-2020		GIGA-5030		
					SONIX-808i-H SONIX-808is-H			SONIX-810i-H SONIX-810is-H										
					ZEBA-312X-H ZEBA-315X-H													
Advanced	 YUCON-670				SONIX-808 / SONIX-808s SONIX-808i / SONIX-808is			SONIX-810 SONIX-810s SONIX-810i SONIX-810is										
General	 YUCON-650			SEMA-308i SEMA-308is							SEMA-2518 SEMA-2518s							
				SEMA-509i SEMA-509is			SEMA-510i SEMA-510is											
								SEMA-1515 SEMA-1515s										
Basic	 YUCON-500									SIGMA-1200STM				MEGA-1800		MEGA-2000	MEGA-2500	MEGA-3000
										SIGMA-1500STM								
	 YUCON-260			SEKO-206i / SEKO-206is SEKO-208i / SEKO-208is			SEKO-509 / SEKO-509s SEKO-510 / SEKO-510s											
										EZI-1200v EZI-1200sv								
	 STEC-K4		SMUS-450		SMUS-800													
		SMUS-300		SMUS-600														



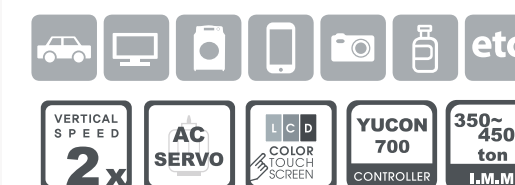
▶ I.M.M (ton)	350 ~ 4,500 (Horizontal I.M.M)
▶ Traverse (mm)	1,600 ~ 4,500
▶ Vertical (mm)	1,200 ~ 3,000 (Telescopic structure)
▶ Driving method	All axes AC Servo
▶ Payload (Kg)	10 ~ 50 (Including weight of chuck unit)
▶ Power source	AC 380V, 50/60 Hz

YUCON-700 Controller

- TFT Touch Screen (65536 Color)
- Preferred languages : Korean / English / Portuguese / Spanish / Vietnamese / Russian / Czech / Polish



Applications



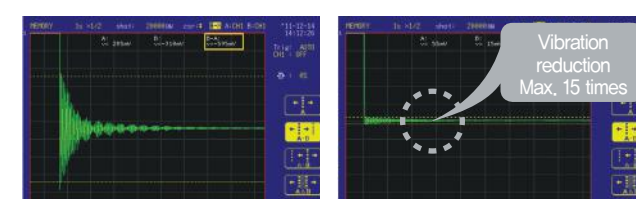
Mold Protection

- Without protective device, it immediately detects collision caused by incorrect operation and set-up, and makes Servo motor come to a sudden stop minimizing mold and robot damage



Vibration Control

Classification	No vibration control applied	Vibration control applied
Overall vibration	5.95mm	0.40mm
(+) Direction vibration	2.90mm	0.175mm
(-) Direction vibration	3.05mm	0.225mm



Before

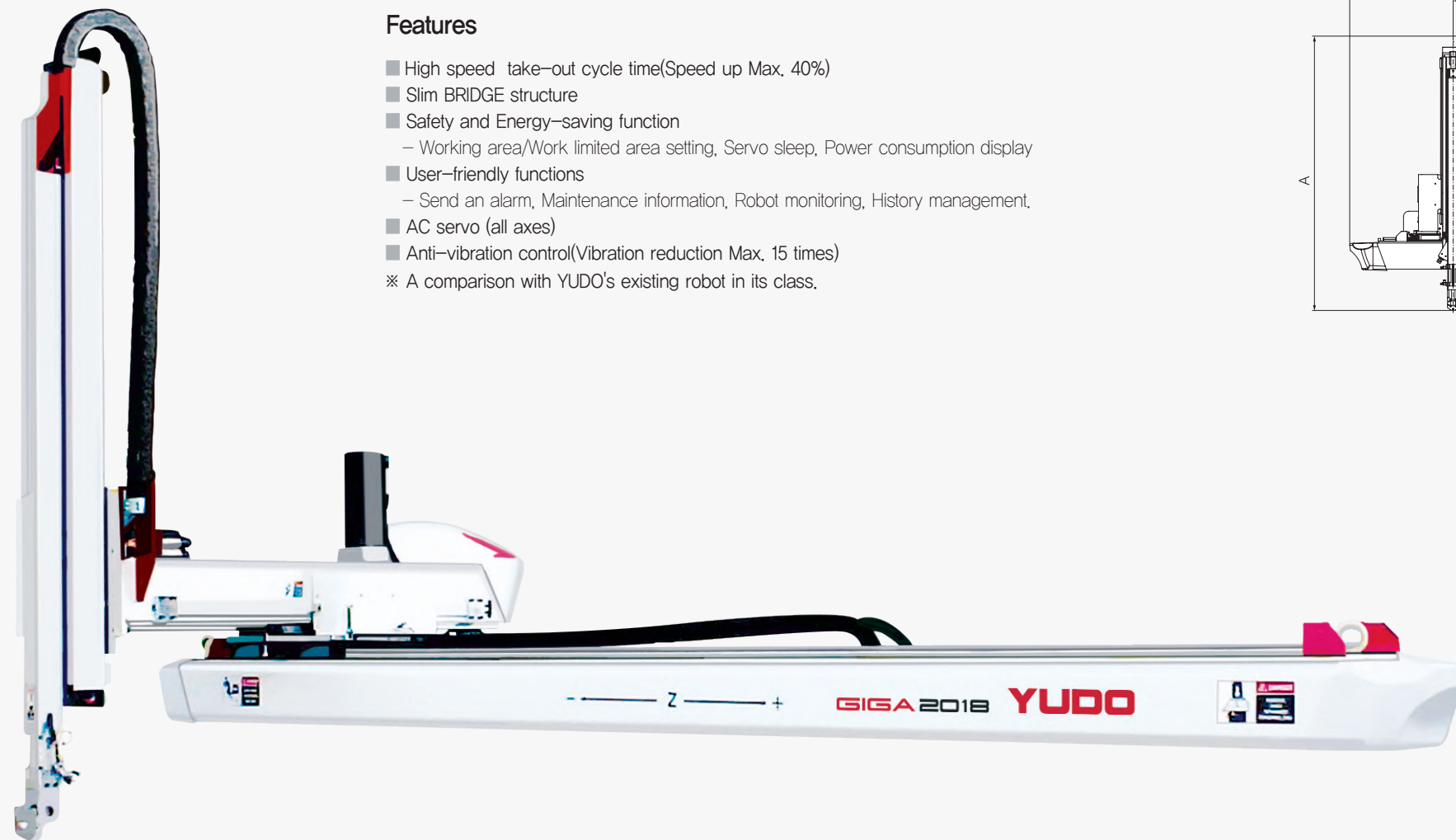
After

Energy Saving

- Servo sleep function operates on stand-by status → Energy saving effect

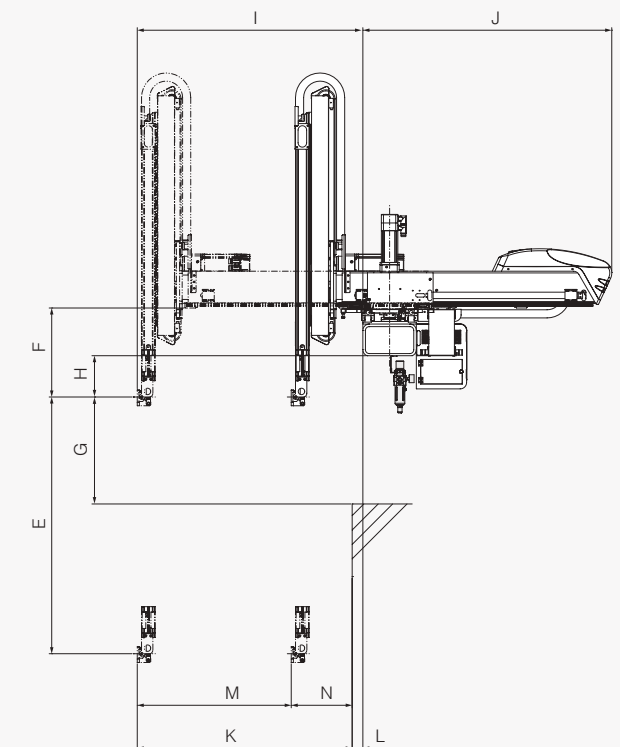
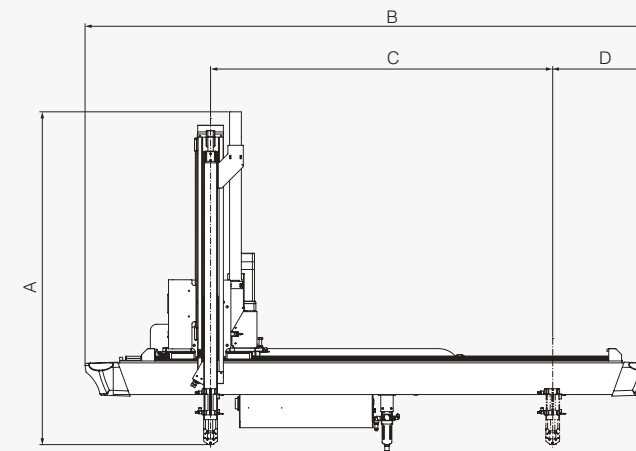
Model Series





Features

- High speed take-out cycle time(Speed up Max. 40%)
 - Slim BRIDGE structure
 - Safety and Energy-saving function
 - Working area/Work limited area setting, Servo sleep, Power consumption display
 - User-friendly functions
 - Send an alarm, Maintenance information, Robot monitoring, History management.
 - AC servo (all axes)
 - Anti-vibration control(Vibration reduction Max. 15 times)
- ※ A comparison with YUDO's existing robot in its class.



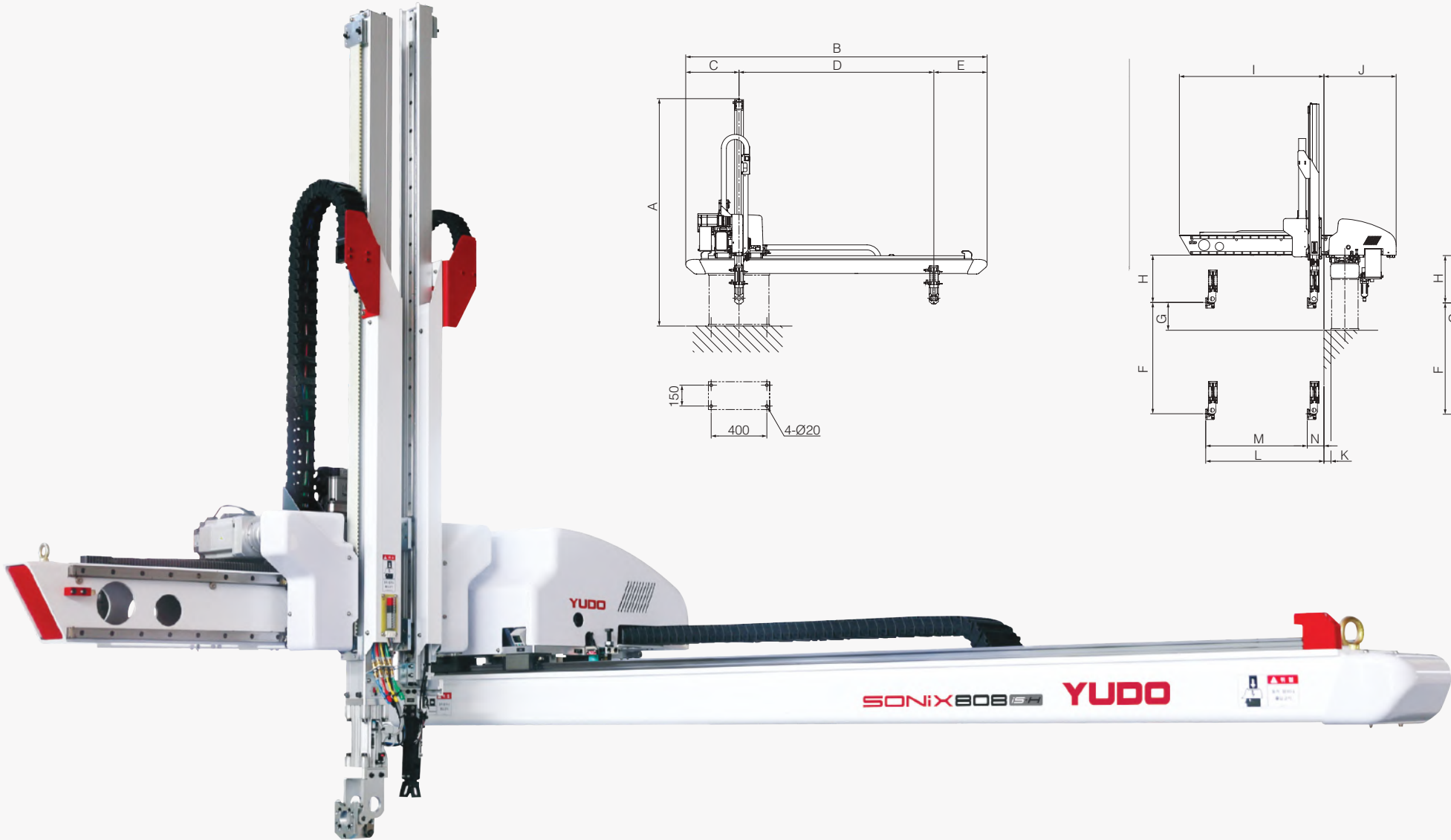
Model	Crosswise (X-axis)		Vertical (Y-axis)		Traverse (Z-axis)		Air consumption (Nl/Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)			
GIGA-1012	720	2.0	1,200	4.0	1,600	3.0	4.5	6.8	10
GIGA-1015	720	2.0	1,500	4.0	2,000	3.0	4.5	6.8	10
GIGA-1018	720	2.0	1,800	4.0	2,500	3.0	4.5	6.8	10
GIGA-2015	900	2.0	1,500	4.0	2,000	3.0	11	9.1	20
GIGA-2018	900	2.0	1,800	4.0	2,500	3.0	11	9.1	20
GIGA-2020	900	2.0	2,000	4.0	2,500	3.0	11	9.1	20
GIGA-3520	1,200	1.5	2,000	3.0	3,500 (4,000)	2.0	32	22	35
GIGA-3525	1,200	1.5	2,500	3.0	3,500 (4,000)	2.0	32	22	35
GIGA-5025	1,500	1.5	2,500	2.8	4,000 (4,500)	2.0	41	22	50
GIGA-5030	1,500	1.5	3,000	2.8	4,000 (4,500)	2.0	41	22	50

※ () are option specifications.

Model	Outer dimension (mm)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
GIGA-1012	1,556	2,674	1,600	487	1,200	416	500	193	1,055	1,164	1,005	50	720	285
GIGA-1015	1,706	3,074	2,000	487	1,500	416	500	193	1,055	1,164	1,005	50	720	285
GIGA-1018	1,856	3,574	2,500	487	1,800	416	500	193	1,055	1,164	1,005	50	720	285
GIGA-2015	1,805	3,023	2,000	472	1,500	525	650	295	1,360	1,418	1,310	50	900	410
GIGA-2018	1,955	3,023 (3,523)	2,500	472	1,800	525	650	295	1,360	1,418	1,310	50	900	410
GIGA-2020	2,105	3,023 (3,523)	2,500	472	2,000	525	650	295	1,360	1,418	1,310	50	900	410
GIGA-3520	2,151	4,784 (5,484)	3,500 (4,000)	642	2,000	612	420	336	1,715	1,782	1,615	100	1,200	415
GIGA-3525	2,401	4,784 (5,484)	3,500 (4,000)	642	2,500	612	420	336	1,715	1,782	1,615	100	1,200	415
GIGA-5025	2,519	5,643 (6,143)	4,000 (4,500)	822	2,500	629	700	246	2,086	2,507	1,986	100	1,500	486
GIGA-5030	2,769	5,643 (6,143)	4,000 (4,500)	822	3,000	629	700	246	2,086	2,507	1,986	100	1,500	486

* () are extended option specifications. * The size "G, L, N" is a standard, so it might be changed according to specification.

Optimized for high speed take-out such as mobile, packaging, etc



- ▶ I.M.M (ton) 100 ~ 350 (Horizontal I.M.M)
- ▶ Traverse (mm) 1,400 / 1,600 / 1,800 / 2,000
- ▶ Vertical (mm) 800 / 1,000 (Non-Telescopic arm / Option : Telescopic arm)
- ▶ Driving method All axes AC Servo
- ▶ Payload (Kg) 8 (Including weight of chuck unit)
- ▶ Power source AC 380V, 50/60 Hz

YUCON-700 Controller

- TFT Touch Screen (65536 Color)
- Preferred languages : Korean / English / Portuguese / Spanish / Vietnamese / Russian / Czech / Polish



▶ Applications

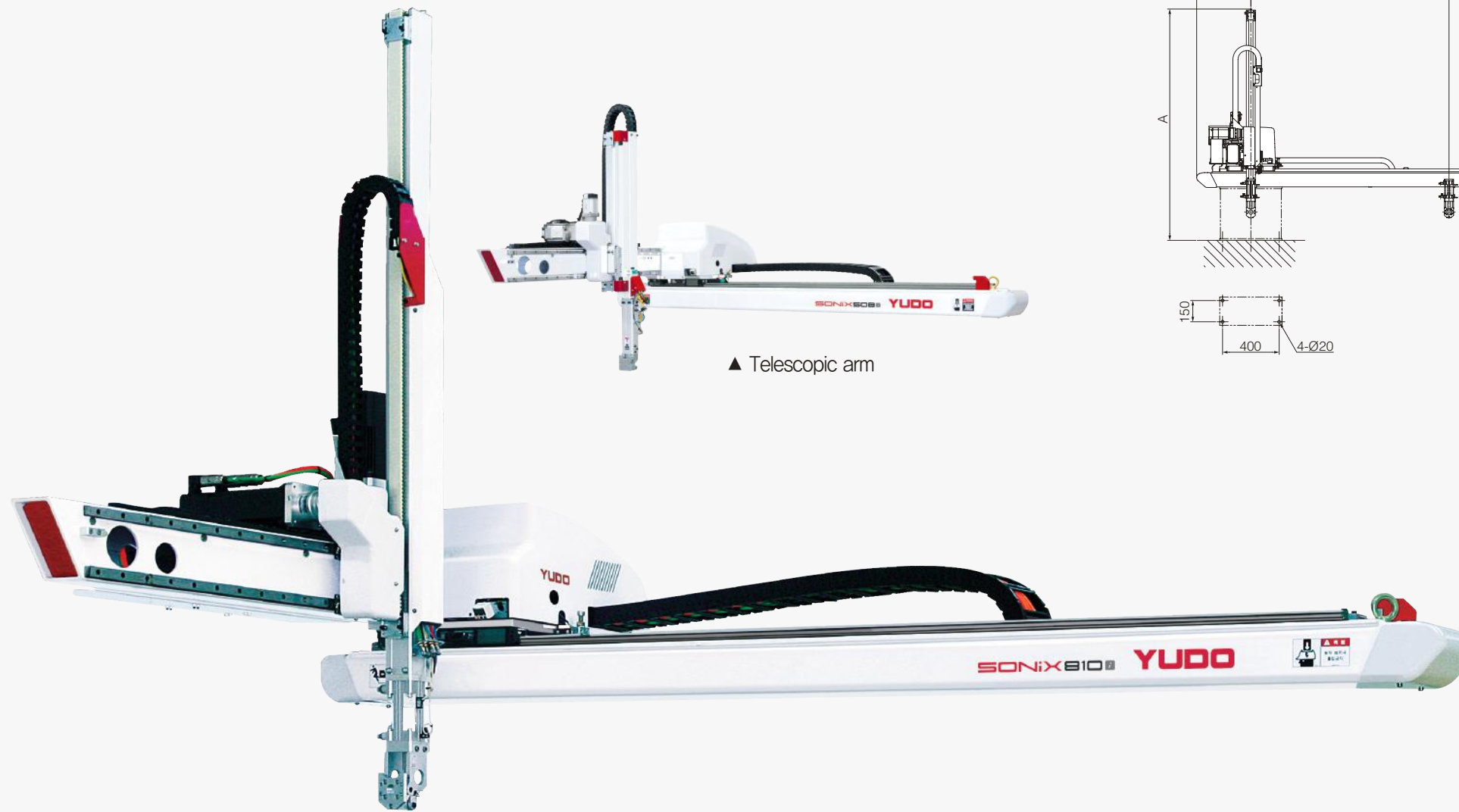


Model	Crosswise (X-axis)		Vertical (Y-axis)		Traverse (Z-axis)		Air consumption (N l /Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)			
SONIX-808i-H	730	0.6	800	3.6	1,400 (1,600)	2.9	4.1	5	8
SONIX-808is-H	Ⓟ570, Ⓡ570	0.6	Ⓟ800, Ⓡ850	3.6	(1,800) (2,000)	2.9	4.2	7	8
SONIX-810i-H	830	0.6	1,000	3.6	1,600 (1,800)	2.9	4.1	5	8
SONIX-810is-H	Ⓟ670, Ⓡ670	0.6	Ⓟ1,000, Ⓡ1,050	3.6	(2,000)	2.9	4.2	7	8

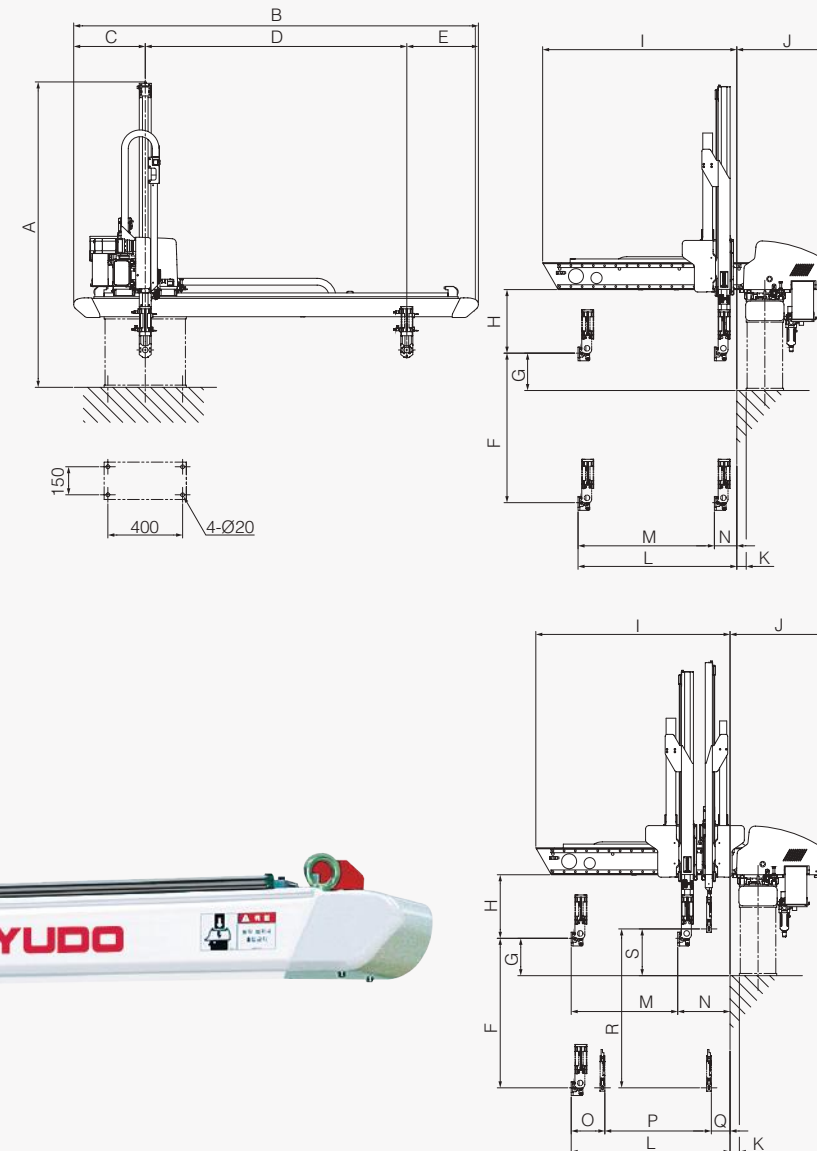
* Ⓟ Product side Ⓡ Runner side () are option specifications

Model	Outer dimension (mm)																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SONIX-808i-H	1,634	2,166	383	1,400	383	800	200	340	1,040	520	50	850	730	120	-	-	-	-	-
SONIX-808is-H	1,684	2,166	383	1,400	383	800	200	340	1,040	520	50	850	570	280	180	570	100	850	250
SONIX-810i-H	1,834	2,366	383	1,600	383	1000	200	340	1,140	520	50	950	830	120	-	-	-	-	-
SONIX-810is-H	1,884	2,366	383	1,600	383	1000	200	340	1,140	520	50	950	670	280	180	670	100	1,050	850

* The size "A, G, S" is a standard, so it might be changed according to specification.



▲ Telescopic arm



▶ I.M.M (ton)	100 ~ 350 (Horizontal I.M.M)
▶ Traverse (mm)	1,400 / 1,600 / 1,800 / 2,000
▶ Vertical (mm)	800 / 1,000 (Non-Telescopic arm / Telescopic arm)
▶ Driving method	All axes AC Servo
▶ Payload (Kg)	8 (Including weight of chuck unit)
▶ Power source	AC 220V, 50/60 Hz

YUCON-670 Controller

- 8 inch TFT Touch Screen (16.7 Million Color)
- Preferred languages : Korean / English / Chinese / Vietnamese / Indonesian



▶ Applications

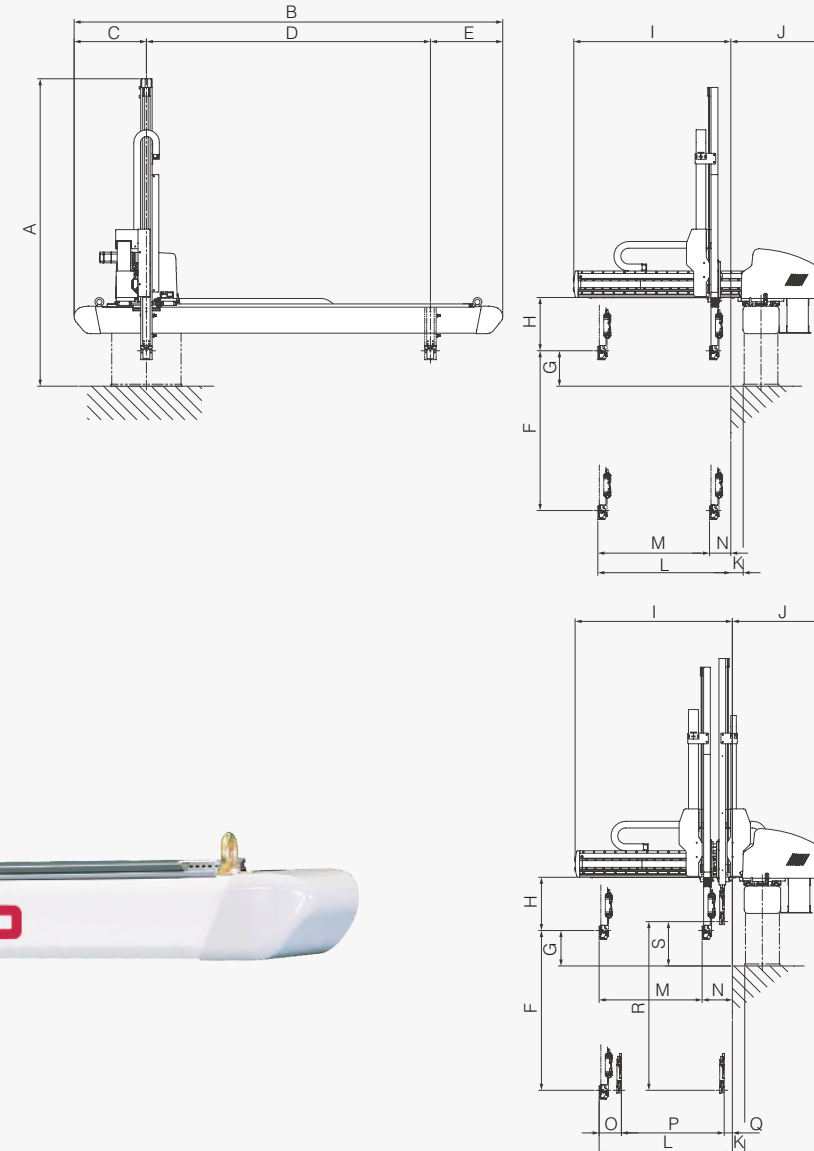
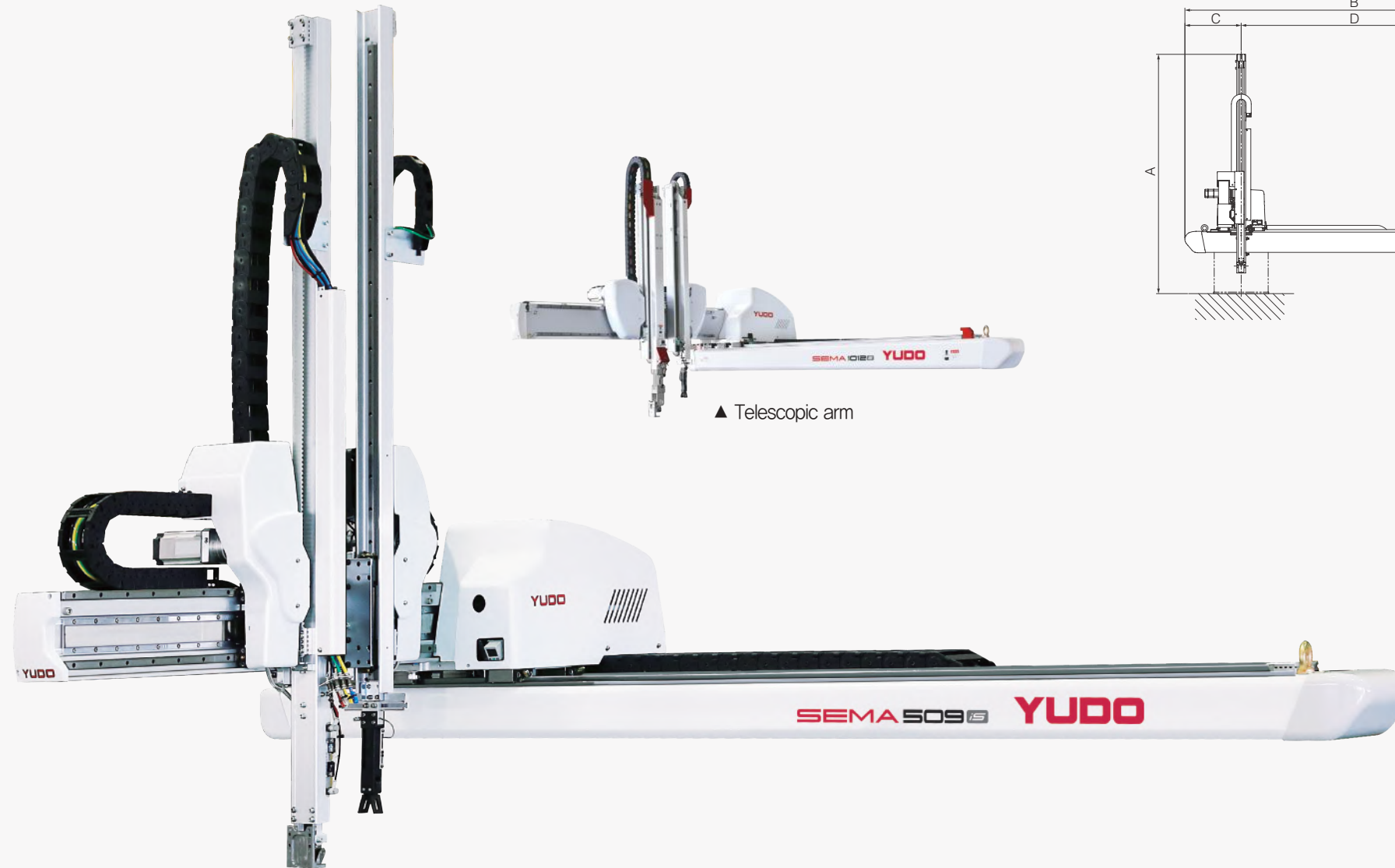


Model	Crosswise (X-axis)		Vertical (Y-axis)		Traverse (Z-axis)		Air consumption (N l / Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)			
SONIX-808	730	1.1	800	2.5	1,400	1.7	4.6	2.1	8
SONIX-808s	Ⓟ570, Ⓡ570		Ⓟ800, Ⓡ850		(1,600 / 1,800 / 2,000)		4.7	3.0	
SONIX-808i	730	1.1	800	2.9	1,400	1.7	4.6	2.1	8
SONIX-808is	Ⓟ570, Ⓡ570		Ⓟ800, Ⓡ850		(1,600 / 1,800 / 2,000)		4.7	3.0	
SONIX-810	830	1.1	1,000	2.5	1,600	1.7	4.6	2.1	8
SONIX-810s	Ⓟ670, Ⓡ670		Ⓟ1,000, Ⓡ1,050		(1,800 / 2,000)		4.7	3.0	
SONIX-810i	830	1.1	1,000	2.9	1,600	1.7	4.6	2.1	8
SONIX-810is	Ⓟ670, Ⓡ670		Ⓟ1,000, Ⓡ1,050		(1,800 / 2,000)		4.7	3.0	

* Ⓟ Product side Ⓡ Runner side. * () are option specifications. * The above mentioned specifications are based on YUCON-670.

Model	Outer dimension (mm)																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SONIX-808	1,383	2,166	439	1,400	327	800	200	400	1,060	500	30	850	730	120	-	-	-	-	-
SONIX-808s	1,383	2,166	439	1,400	327	800	200	400	1,060	500	30	850	570	280	135	570	145	850	250
SONIX-808i	1,634	2,166	383	1,400	383	800	200	340	1,040	520	50	850	730	120	-	-	-	-	-
SONIX-808is	1,684	2,166	383	1,400	383	800	200	340	1,040	520	50	850	570	280	180	570	100	850	250
SONIX-810	1,483	2,366	439	1,600	327	1,000	200	400	1,160	500	30	950	830	120	-	-	-	-	-
SONIX-810s	1,483	2,366	439	1,600	327	1,000	200	400	1,160	500	30	950	670	280	135	670	145	1,050	250
SONIX-810i	1,834	2,366	383	1,600	383	1,000	200	340	1,140	520	50	950	830	120	-	-	-	-	-
SONIX-810is	1,884	2,366	383	1,600	383	1,000	200	340	1,140	520	50	950	670	280	180	670	100	1,050	850

* The size "A, G, S" is a standard, so it might be changed according to specification.



▶ I.M.M(ton)	80 ~ 1,300 (Horizontal I.M.M)
▶ Traverse(mm)	1,400 / 1,600 / 2,000 / 2,500
▶ Vertical (mm)	800 / 900 / 1,000 / 1,200 / 1,500 / 1,800 (Non-telescopic arm / Telescopic arm)
▶ Driving method	Crosswise : Linear Servo, AC Servo Vertical, Traverse : AC Servo
▶ Payload (Kg)	3 / 5 / 10 / 15 / 25 (Including weight of chuck unit)
▶ Power source	AC220V, 50/60 Hz

YUCON-650 Controller

- 8 inch TFT Touch Screen (16.7 Million Color)
- Preferred languages : Korean / English / Chinese / Vietnamese / Indonesian



▶ Applications



Model	Crosswise (X-axis)		Vertical (Y-axis)		Traverse (Z-axis)		Air consumption (N l / Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)			
SEMA-308i	600	1.0	800	2.4	1,400	1.8	4.6	1.3	3
SEMA-308is	Ⓟ450 Ⓡ450		Ⓟ800 Ⓡ850				4.7	2.0	
SEMA-509	620	1.0	900	3.0	1,600	1.5	4.8	1.5	5
SEMA-509s	Ⓟ570 Ⓡ570		Ⓟ900 Ⓡ950				4.9	2.0	
SEMA-510	720	1.0	1,000	3.0	1,600	1.5	4.8	1.5	5
SEMA-510s	Ⓟ670 Ⓡ670		Ⓟ1,000 Ⓡ1,050				4.9	2.0	
SEMA-509i	680	1.0	900	3.0	1,600	1.5	4.8	1.5	5
SEMA-509is	Ⓟ630 Ⓡ630		Ⓟ900 Ⓡ950				4.9	2.0	
SEMA-510i	780	1.0	1,000	3.0	1,600	1.5	4.8	1.5	5
SEMA-510is	Ⓟ730 Ⓡ730		Ⓟ1,000 Ⓡ1,050				4.9	2.0	
SEMA-1012	980	1.0	1,200	3.0	1,600	1.2	4.9	1.9	10
SEMA-1012s	Ⓟ810 Ⓡ810		Ⓟ1,200 Ⓡ1,250				5	2.5	
SEMA-1515	1,300	0.5	1,500	2.1	2,000	1.1	8	2.3	15
SEMA-1515s	Ⓟ1,070 Ⓡ1,070		Ⓟ1,500 Ⓡ1,550				8	3.0	

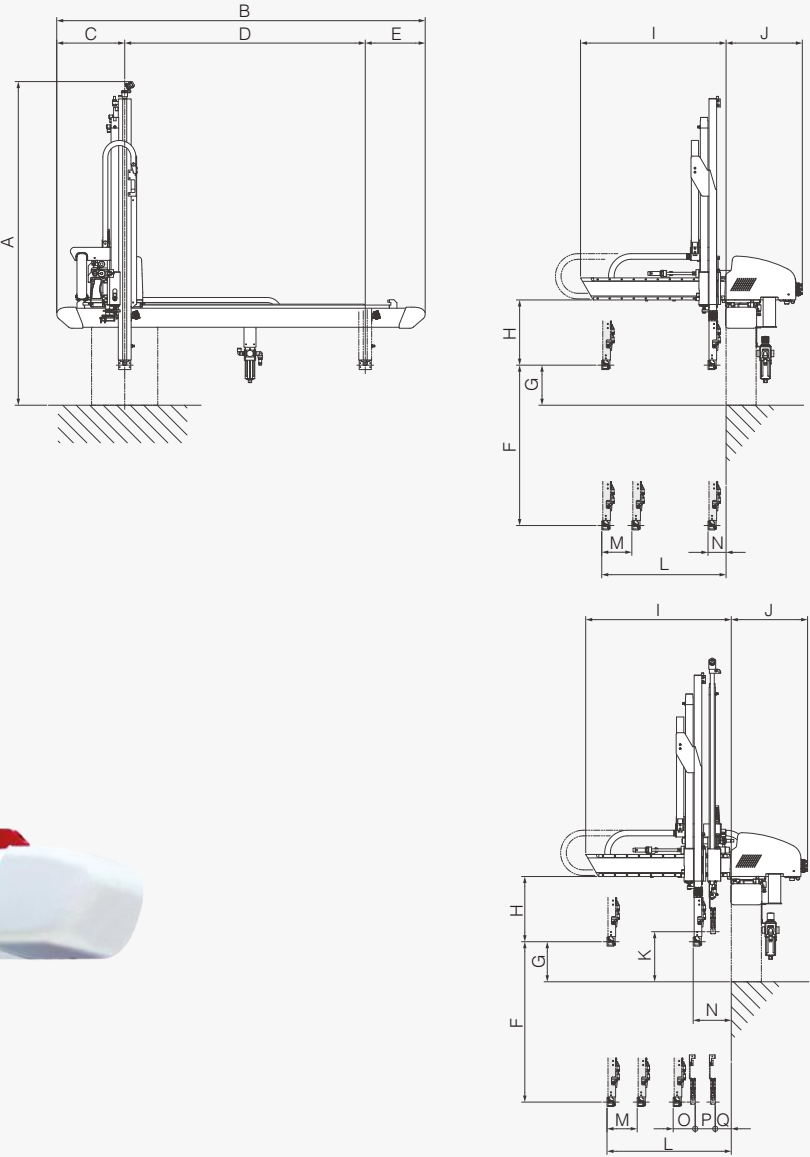
* Ⓟ Product side Ⓡ Runner side

Model	Outer dimension																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SEMA-308i	1,524	2,273	518	1,400	355	800	200	320	849	476	-	700	600	100	-	-	-	-	-
SEMA-308is	1,574												450	150	116	450	126	850	250
SEMA-509	1,430	2,356	468	1,600	289	900	150	378	941	532	70	782	620	162	-	-	-	-	-
SEMA-509s	1,430												570	207	159	570	48	950	200
SEMA-510	1,480	2,406	493	1,600	314	1,000	150	378	1,041	532	70	882	720	162	-	-	-	-	-
SEMA-510s	1,480												670	212	159	670	53	1,050	200
SEMA-509i	1,683	2,406	403	1,600	403	900	200	300	936	541	70	800	680	120	-	-	-	-	-
SEMA-509is	1,733												630	170	125	630	45	950	250
SEMA-510i	1,783	2,406	403	1,600	403	1,000	200	300	1,036	541	70	900	780	120	-	-	-	-	-
SEMA-510is	1,833												730	170	125	730	45	1,050	250
SEMA-1012	1,490	2,556	526	1,600	430	1,200	193	400	1,358	518	100	1,040	980	60	-	-	-	-	-
SEMA-1012s	1,490												810	231	192	810	38	1,250	143
SEMA-1515	1,957	3,043	505	2,000 (2,500)	539	1,500 (1,800)	300	445	1,823	692	50	1,455	1,300	155	-	-	-	-	-
SEMA-1515s	1,971												1,070	385	270	1,070	126	1,550 (1,850)	350

* A, G, K is just standard height and can be various based on sub-base height. * () : Option

Features

- Optimized design
 - Light weight : Optimized design realizes 13% lighter weight on moving unit.
 - [Traverse speed improved by 10%]
- Low Maintenance
 - Easy setup : Easier design to switch the direction of traverse.
- New controller [YUCON-260]
 - Various sequences preprogrammed as standard.



- ▶ I.M.M(ton) 80 ~ 350 (Horizontal I.M.M)
- ▶ Traverse (mm) 1,200 / 1,600
- ▶ Vertical (mm) 600 / 800 / 900 / 1,000 (Non-telescopic arm / Telescopic arm)
- ▶ Driving method Vertical, Crosswise : Air Cylinder
Traverse : AC Servo
- ▶ Payload (Kg) 2 / 5 (Including weight of chuck unit)
- ▶ Power source AC 220V, 50/60 Hz

YUCON-260 Controller

- 320x240 high-resolution Color TFT LCD (65536 Color)
- Preferred languages : Korean / English / Chinese / Spanish



Applications

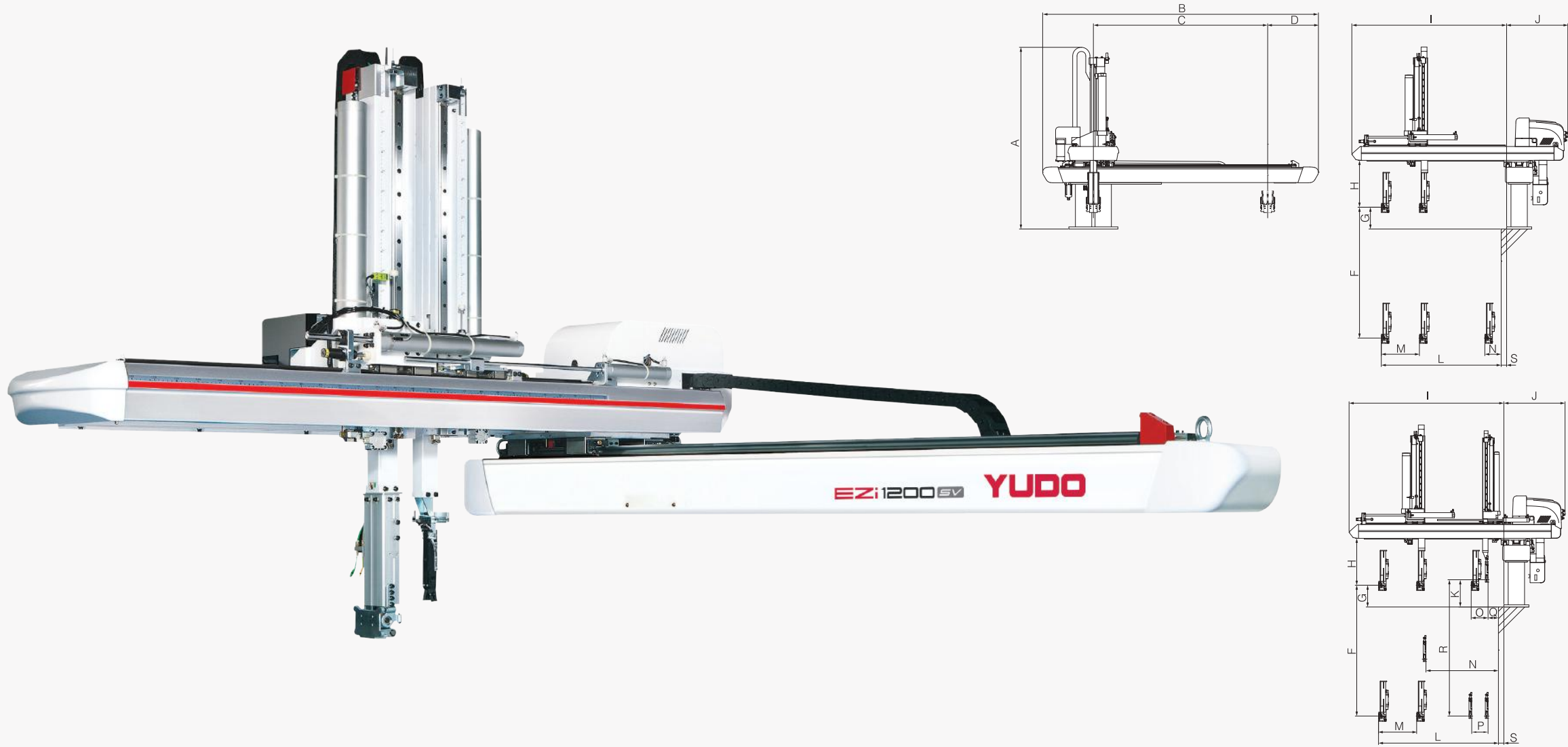


Model	Crosswise (X-axis)	Vertical (Y-axis)	Traverse (Z-axis)	Air consumption (N l /Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Stroke (mm)	Stroke (mm)			
SEKO-206i	150	600	1,200	12	0.8	2
SEKO-206is	⌀150, Ⓜ100	⌀600, Ⓜ650	1,200	20	0.8	2
SEKO-208i	150	800	1,200	12	0.8	2
SEKO-208is	⌀150, Ⓜ100	⌀800, Ⓜ850	1,200	20	0.8	2
SEKO-509	200	900	1,600	24	0.8	5
SEKO-509s	⌀200, Ⓜ100	⌀900, Ⓜ950	1,600	29	0.8	5
SEKO-510	200	1,000	1,600	39	0.8	5
SEKO-510s	⌀200, Ⓜ100	⌀1,000, Ⓜ1,050	1,600	45	0.8	5

* ⌀ Product side Ⓜ Runner side

Model	Outer dimension																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
SEKO-206i	1,336	1,838	339	1,200	299	600	200	325	726	380	250	620	150	90	-	-	-
SEKO-206is	1,415	1,838	339	1,200	299	600	200	325	726	380	250	620	150	190	110	100	80
SEKO-208i	1,536	1,838	339	1,200	299	800	200	325	726	380	250	620	150	90	-	-	-
SEKO-208is	1,615	1,838	339	1,200	299	800	200	325	726	380	250	620	150	190	110	100	80
SEKO-509	1,373	2,675	582	1,600	493	900	200	335	1,006	487	-	810	200	106	-	-	-
SEKO-509s	1,373	2,675	582	1,600	493	900	200	335	1,006	487	250	810	200	272	137	100	140.5
SEKO-510	1,423	2,675	582	1,600	493	1,000	200	335	1,106	487	-	910	200	106	-	-	-
SEKO-510s	1,423	2,675	582	1,600	493	1,000	200	335	1,106	487	250	910	200	272	137	100	140.5

* A, G, K is just standard height and can be various based on sub-base height.



▶ I.M.M	350 ~ 550 (Horizontal I.M.M)
▶ Traverse	1,600
▶ Vertical	1,200 (Telescopic arm)
▶ Driving method	Vertical, Crosswise : Air Cylinder Traverse : AC Servo
▶ Payload	10 (Including weight of chuck unit)
▶ Power source	AC 220V, 50/60 Hz

YUCON-260 Controller

- 320x240 high-resolution Color TFT LCD (65536 Color)
- Preferred languages : Korean / English / Chinese / Spanish



▶ Applications



Model	Crosswise (X-axis) Stroke (mm)	Vertical (Y-axis) Stroke (mm)	Traverse (Z-axis) Stroke (mm)	Air consumption (N l /Cycle)	Power consumption (KVA)	Payload (Kg)
EZi-1200v	350	1,200	1,600	45.5	1.5	10
EZi-1200sv	Ⓟ350 Ⓡ150	Ⓟ1,200 Ⓡ1,250		63		

* Ⓟ Product side Ⓡ Runner side

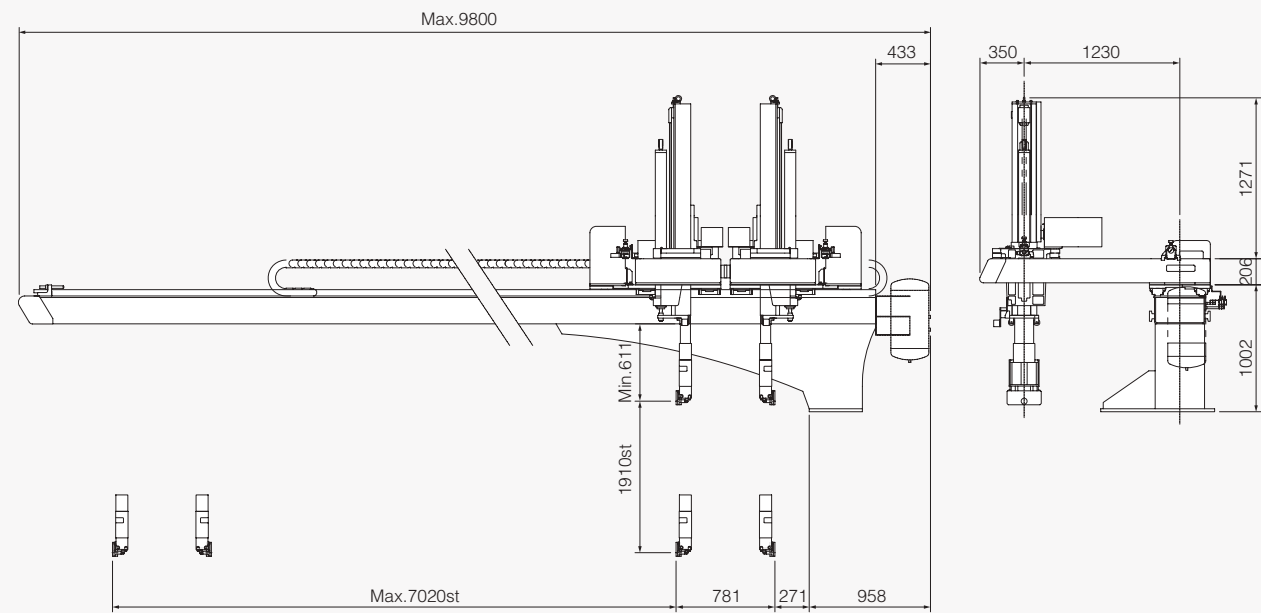
Model	Outer dimension																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
EZi-1200v	1,670	2,532	1,600	466	-	1,200	200	430	1,421	562	-	1,100	350	150	-	-	-	-	50
EZi-1200sv	1,670	2,532	1,600	466	-	1,200	200	430	1,421	562	250	1,100	350	665	155	150	95	1,250	50

* The size "A, G, K" is a standard, so it might be changed according to specification.

Parallel Traverse Type

Space-saving parallel traverse type robot – 2 color Injection system.

※This size is based on MEGA-2000-4P. Please contact us for further details.



Save more than 20% of space

Parallel traverse type robot is an ideal system to maximize the space of factory.

■ Applicable to 2 color system.

▶ Traverse (mm)	6,500 / 7,000 / 8,300
▶ Vertical (mm)	1,800 / 2,000 / 2,500
▶ Driving method	All axes AC Servo
▶ Payload (Kg)	25 / 30 / 45 (Including weight of chuck unit)
▶ Power source	AC 220V, 50/60 Hz

YUCON-670 Controller

- 8 inch TFT Touch Screen (16.7 Million Color)
- Preferred languages : Korean / English / Chinese / Vietnamese / Indonesian



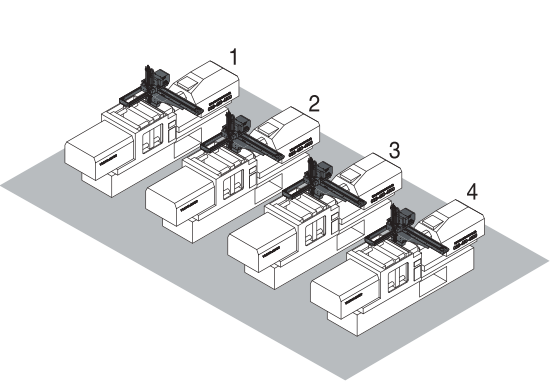
▶ Applications



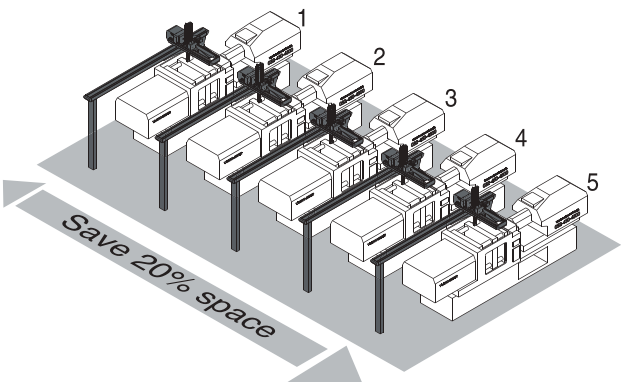
Model	Vertical (Y-axis) Stroke (mm)	Traverse (Z-axis) Stroke (mm)	Air consumption (N ℓ /Cycle)	Power consumption (KVA)	Payload (Kg)
MEGA-1800-2P	1,800	6,500	38	6.0	25
MEGA-1800-3P	1,800	6,500	38	7.5	25
MEGA-1800-4P	1,800	6,500	76	12.0	25
MEGA-2000-2P	2,000	7,000	125	8.2	30
MEGA-2000-3P	2,000	7,000	125	10.0	30
MEGA-2000-4P	2,000	7,000	250	16.2	30
MEGA-2500-2P	2,500	8,300	225	8.2	45
MEGA-2500-3P	2,500	8,300	225	10.0	45
MEGA-2500-4P	2,500	8,300	450	16.2	45

* The above specifications are general. Discussion must be made for details.

Normal type



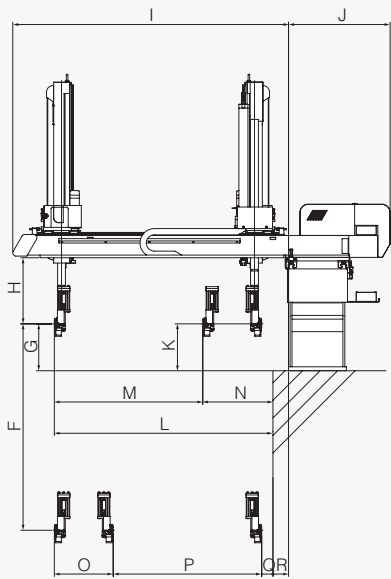
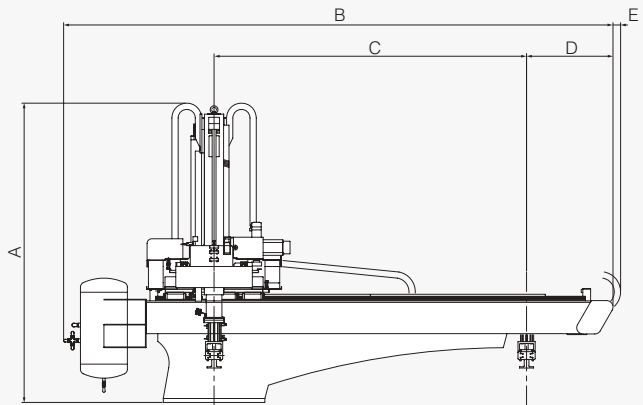
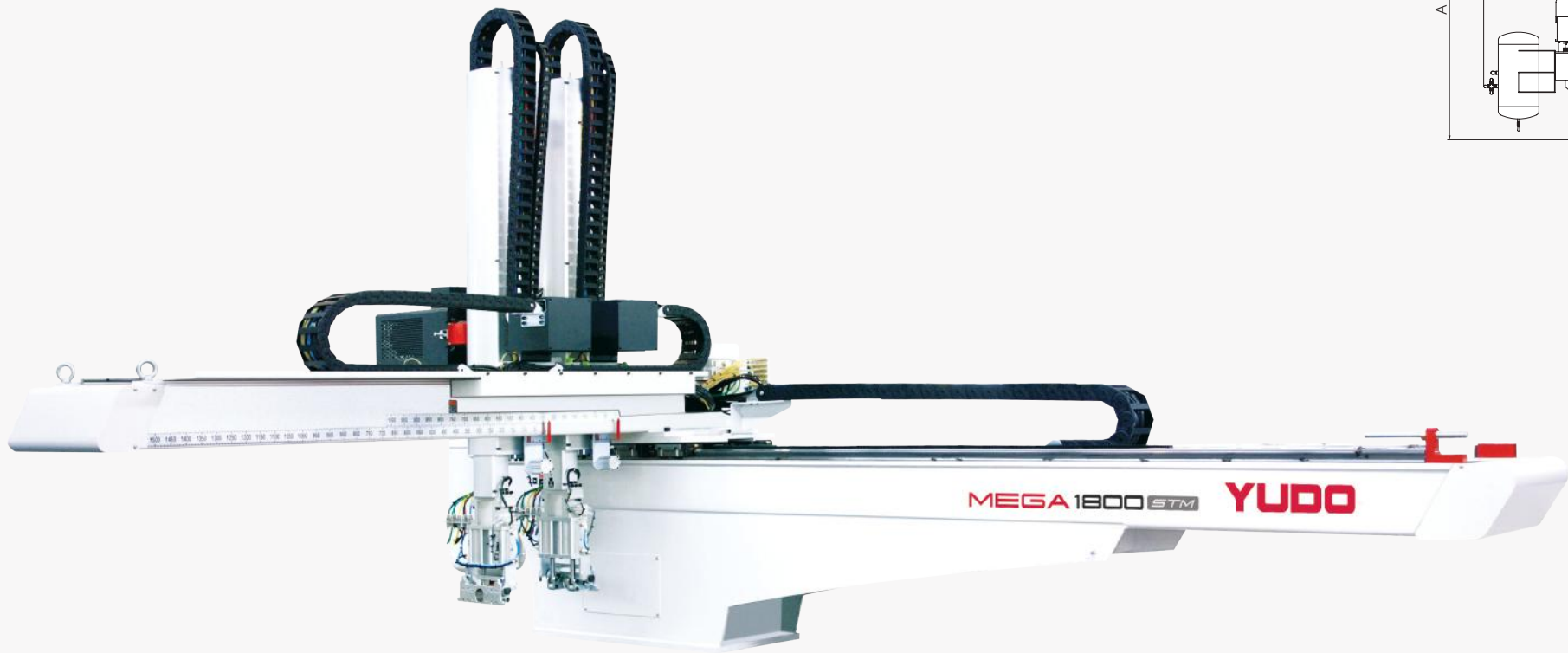
Parallel traverse type





STM series is optimized robot for Stack-Mold system with increased and secured productivity.

Full Servo type Take-Out robot for picking products of Stack mold and simultaneous picking and insert operation at a top and bottom of the mold.



- ▶ I.M.M (ton) 350 ~ 2000 (Horizontal I.M.M)
- ▶ Traverse (mm) 1,600 / 2,000 / 2,500 / 3,500
- ▶ Vertical (mm) 1,200 / 1,500 / 1,800 / 2,000 (Telescopic arm)
- ▶ Driving method All axes AC Servo
- ▶ Payload (Kg) 10 / 15 / 25 / 30 (Including weight of chuck unit)
- ▶ Power source AC 220V, 50/60 Hz

YUCON-670 Controller

- 8 inch TFT Touch Screen (16.7 Million Color)
- Preferred languages : Korean / English / Chinese / Vietnamese / Indonesian



▶ Applications



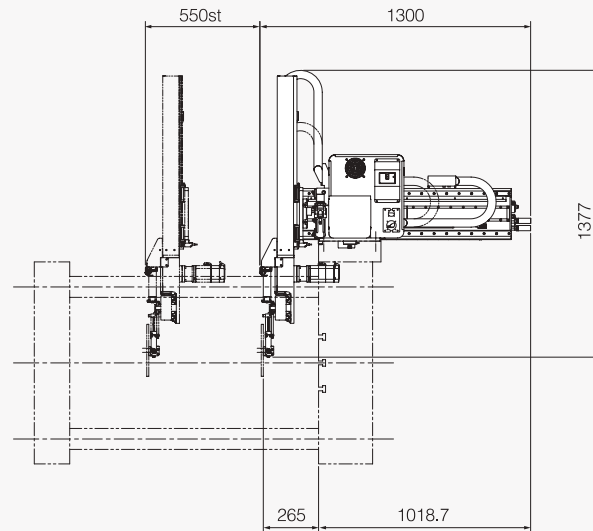
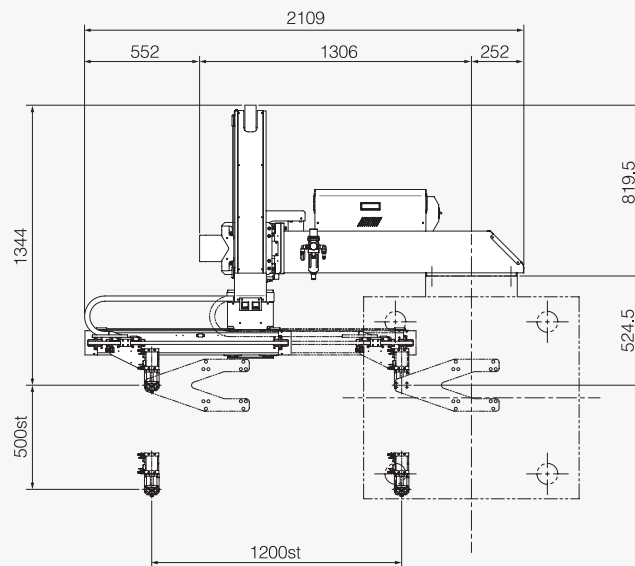
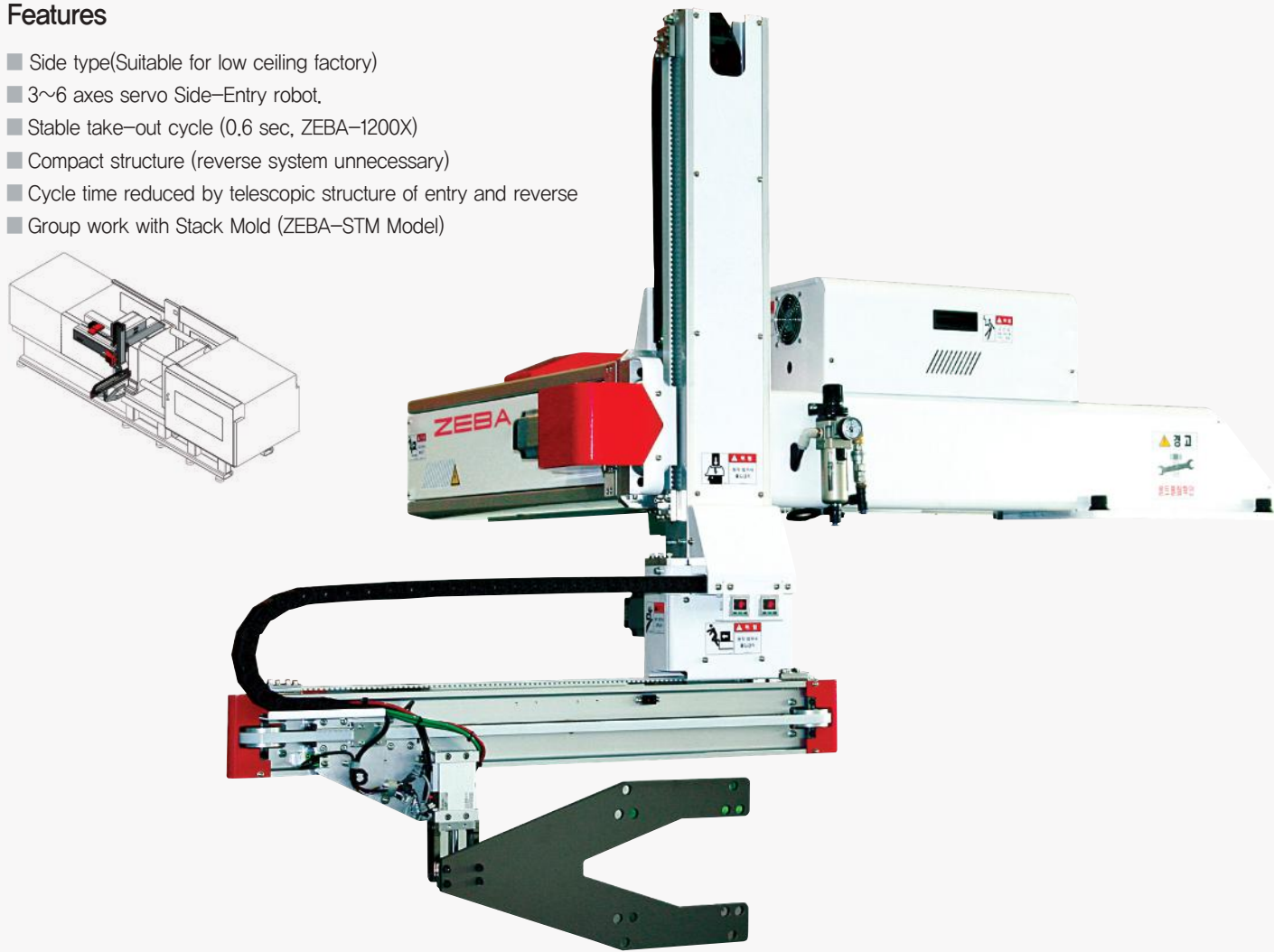
Model	Crosswise(X-axis)	Vertical(Y-axis)	Traverse(Z-axis)	Air consumption (N ℓ /Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Stroke (mm)	Stroke (mm)			
SIGMA-1200STM	800	1,200	1,600	25	11.1	10
SIGMA-1500STM	920	1,500	2,000	48	9.9	15
MEGA-1800STM	1,281	1,800	2,500	58	15	25
MEGA-2000STM	1,281	2,000	3,500	140	16.4	30

※ Please contact us for further details

Model	Outer dimension																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
SIGMA-1200STM	1,624	2,619	1,600	504	0	1,200	200	425	1,600	401	200	1,101	800	301	200	800	101	50
SIGMA-1500STM	1,915	3,516	2,000	553	0	1,500	300	440	1,950	465	300	1,399	950	449	377	950	72	100
MEGA-1800STM	2,391	4,460	2,500	868	23	1,800	273	527	2,462	267	273	1,825	1,218	607	554	1,218	53	100
MEGA-2000STM	2,327	5,277	3,500	740	100	2,000	120	698	2,821	301	120	2,135	1,218	854	740	1,218	114	100

Features

- Side type(Suitable for low ceiling factory)
- 3~6 axes servo Side-Entry robot.
- Stable take-out cycle (0.6 sec, ZEBA-1200X)
- Compact structure (reverse system unnecessary)
- Cycle time reduced by telescopic structure of entry and reverse
- Group work with Stack Mold (ZEBA-STM Model)



* This size is based on ZEBA-312X-H. Please contact us further details

▶ I.M.M	150 ~ 350 (Horizontal I.M.M)
▶ Entry	1,200 / 1,500
▶ Vertical	500
▶ Driving method	Entry, Vertical : AC Servo Crosswise : Linear Servo
▶ Payload	3 (Including weight of chuck unit)
▶ Power source	AC 380V, 50/60 Hz

YUCON-700 Controller

- TFT Touch Screen (65536 Color)
- Preferred languages : Korean / English / Portuguese / Spanish / Vietnamese / Russian / Czech / Polish



▶ Applications



Model	Crosswise(X-axis)		Vertical(Y-axis)		Entry(Z-axis)		Air consumption (N l /Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)	Stroke (mm)	Speed (m/s)			
ZEBA-312X-H	670	1.1	500	1.2	1,200	5.0	2.5	5	3 (5)
ZEBA-315X-H	670	1.1	500	1.2	1,500	5.0	2.5	5	3 (5)

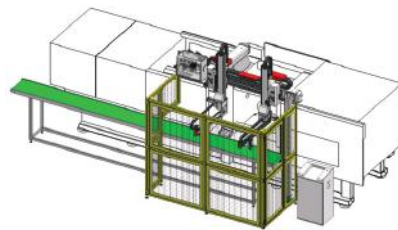
※ () are option specifications.

■ ZEBA Stack mold application



Stack Mold (big ton)

Stack Mold

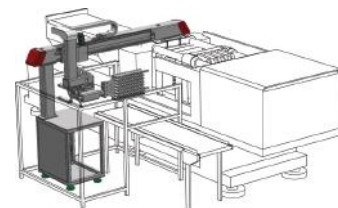


■ ZEBA PET Preform application

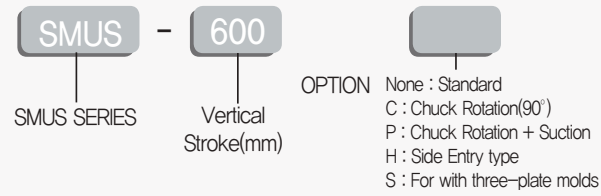


PET Perform

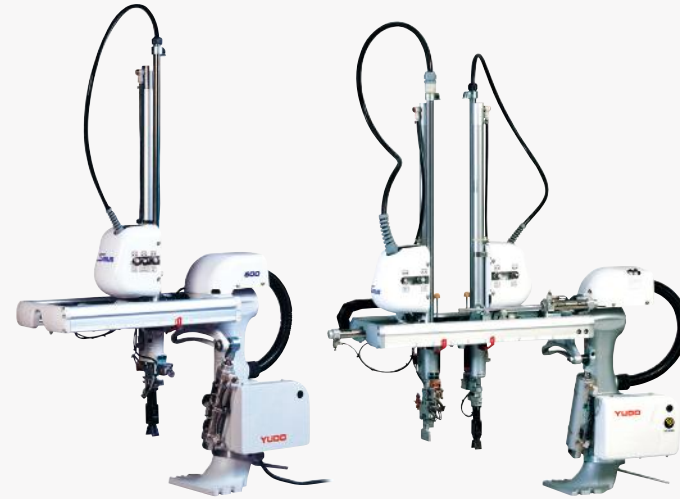
IML



Model Series

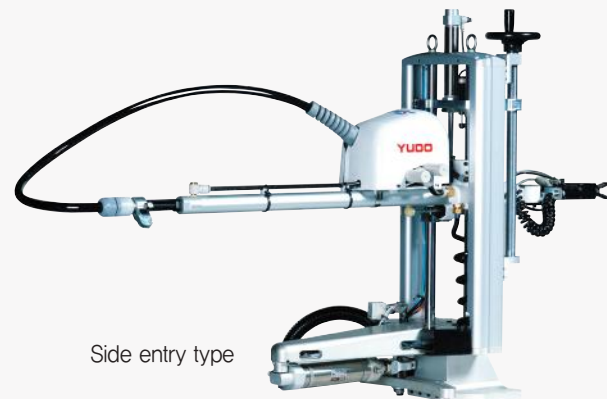


Model	Injection pressure range(ton)
SMUS-300	~ 30
SMUS-450	30 ~ 80
SMUS-600	80 ~ 160
SMUS-800	150 ~ 220



For two-plate molds

For with three-plate molds

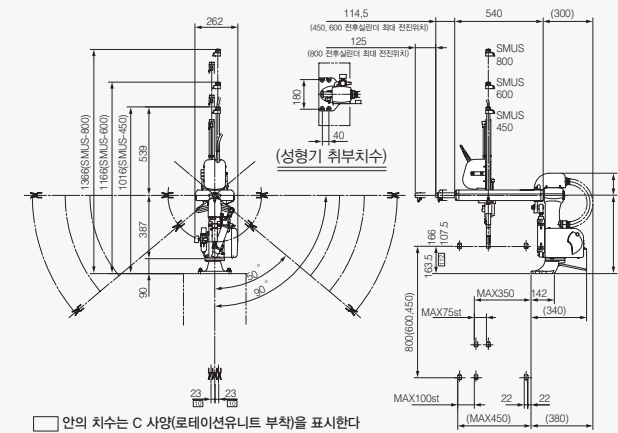


Side entry type

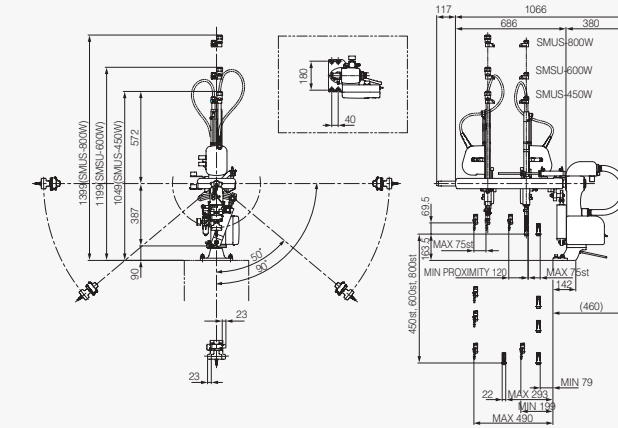


Robot for under 30 ton of IMM

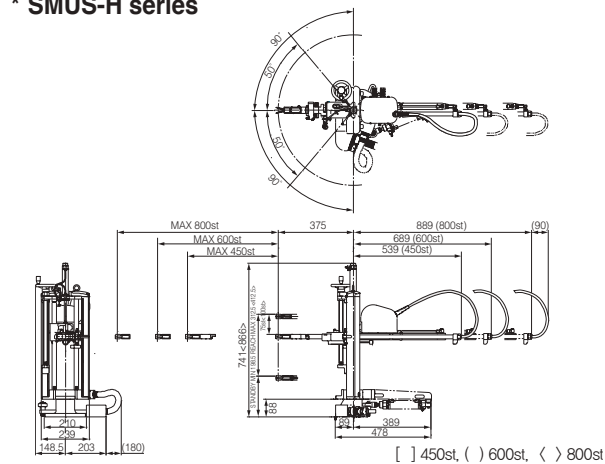
* SMUS series



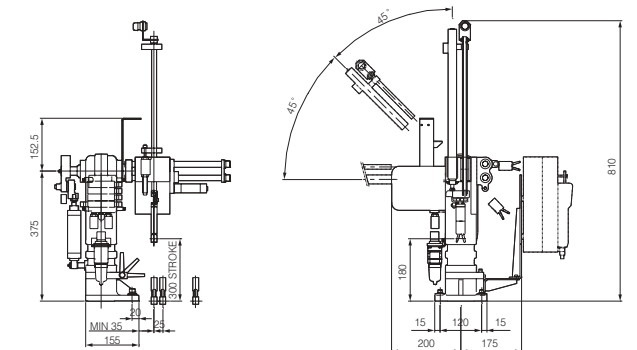
* SMUS-S series



* SMUS-H series



* SMUS-300 series



▶ I,M,M(ton)	~ 220 (Horizontal I,M,M)
▶ Vertical(mm)	300 / 450 / 600 / 800
▶ Crosswise(mm)	25 / 75 / 100
▶ Swing (°)	50 ~ 90
▶ Driving method	Air Cylinder
▶ Air pressure	0.5MPa (5kgf/cm ²)
▶ Payload (Kg)	2 (Including weight of chuck unit)
▶ Power source	AC 220V, 50/60 Hz

STEC-K4

- Preferred languages : Korean / English



► Applications



Model	Crosswise (X-axis)	Vertical (Y-axis)	Swing (°)	Air consumption (N l / Cycle)	Power consumption (KVA)	Payload (Kg)
	Stroke (mm)	Stroke (mm)				
SMUS-300	25	300	50 ~ 90	-	0.05	2
SMUS-450(C)(P)(S)(H)	75	450	50 ~ 90	7.4	0.05	2
SMUS-600(C)(P)(S)(H)	75	600	50 ~ 90	9.0	0.05	2
SMUS-800(C)(P)(S)(H)	100	800	50 ~ 90	10.8	0.05	2

※ Please contact us for further details

YUCON 700

Convenient user-friendly program by smart CNC technology.



Features

1. Convenience

1) USER PROGRAM

- Easy user programming with 12 command sets.
- Users can create their own motions

2) Easy program management

- Easy program change and download by USB memory
- Users abroad are able to deal with problems easily

3) Alarm history, operation history

4) Language support

- 8 languages support (standard : Korean, English, Portuguese, Spanish, Vietnamese, Russian, Czech, Polish)
- Option : all foreign languages

5) Take-out robot monitoring

- Take-out robot monitoring in the office through Ethernet(10/100) (Option)

2. Safety

1) Collision detection

- Emergency stop to avoid collision during robot's operation
- Mold protection

2) Work limited area setting

- Avoid interferential space by setting work limited area

3) Anti-vibration control

- Anti-vibration control algorism installed
- Minimize vibration by controlling telescopic part of the robot automatically

3. Performance(Energy-saving)

1) Servo sleep

- Servo sleep function during standby
- Energy-saving effect

2) Power consumption display

- Electric energy check
- Estimated electrical bills check



Convenient user-friendly program by smart CNC technology

Comparison of Take-out Speed Performance Depending on Controllers
(Improvement ratio of Take-Out speed in comparison with YUCON-500)

YUCON-700	YUCON-650
28% improvement Ultrahigh-speed Take-Out	13% improvement High-speed Take-Out

* The above figures are based on our company's measuring method of SONIX-5 series

YUCON 670

More Stable Performance by optimization.



Features

1. General Specification

- 800 x 600 size TFT LCD(16.7 million color)
- Slim / Light 8-inch
- Multi-national language support : Basically supporting five languages (Responding to all languages in the world as an option)

2. Convenience

- Easy Operation : Easy and simple operation even for beginners (mal-operation prevention function)
- Operating Position / Speed / Input&Output / Time on one screen
- Manualized Motion Mode / Motion Time : Detailed explanation function
- ROBOT Processing Monitoring (responding to IMC as an option)
- Download Function by USB memory stick use
- Automatic Driving Start Mode : Automatic driving in any zone except for in-mold

3. Stability

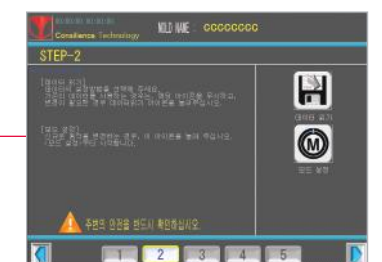
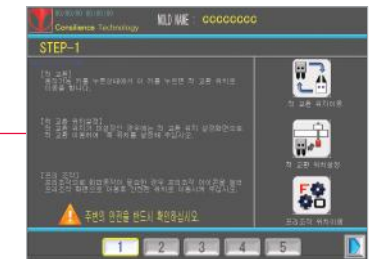
- Anti-vibration function
- Work area setting function

4. Performance - High Cycle

- 1) Application of High-speed Communication Module
- High speed through multi-axis and high-speed communication
- 2) SERVO SLEEP function

Easy Operation

Easy to operate even for beginners with a function that users can easily follow step by step.



YUCON 650

Improvement of Motion Performance by Easy Operation and High-speed Communication Module.



Features

- 1. General Specification**
 - 800 x 600 size TFT LCD(16.7 million color)
 - Slim / Light 8-inch
 - Multi-national language support : Basically supporting five languages (Responding to all languages in the world as an option)
- 2. Convenience**
 - Easy Operation : Easy and simple operation even for beginners (mal-operation prevention function)
 - Operating Position / Speed / Input&Output / Time on one screen
 - Manualized Motion Mode / Motion Time : Detailed explanation function
 - ROBOT Processing Monitoring (responding to IMC as an option)
 - Download Function by USB memory stick use
 - Automatic Driving Start Mode : Automatic driving in any zone except for in-mold
- 3. Stability**
 - Anti-vibration function
 - Work area setting function
- 4. Performance – High Cycle**
 - 1) Application of High-speed Communication Module
 - High speed through multi-axis and high-speed communication
 - 2) SERVO SLEEP function

Easy Operation

Easy to operate even for beginners with a function that users can easily follow step by step.



YUCON 260

Features

- 320X240 high-resolution Color TFT LCD (65,536 Color)
- 4 languages support (standard : Korean/English, Option : 2 languages)
 - * Among 20 Unicode support languages
- Push-rock reset type emergency stop switch
- 3 position dead man's switch
- 60 different mold memories
- 36 differend sequences pre programmed
- Abcrm list : adlarm occurred date, time display 100 list record and detailed help view available
- RS232C / mini USB port download



YUCON 250

Features

- 320X240 Color TFT LCD (256Color)
- 4 languages support (standard : Korean/English, Option: 2 languages (among 20 Unicode support languages)
- Push-rock reset type emergency stop switch
- Switch to operate 3 position motions
- Use Power On/OFF as Servo ON/OFF
- 36 basic motions are installed for picking and dropping products
- 32 alarm timers
- 9 spare timers
- Alarm records : Lamp on type and details is able to be changed



USB PORT

STECK4

Features

- 3 languages support (Standard-Korean, English)
- Alarm history
- Emergency stop input/output function
- 18 basic modes of robot's movement installed
- Mold memory function up to 32 items
- TEN-KEY function
- Additional Usable keys



Belt conveyor

Standard type belt conveyor system.



Flat Type



Slope Type

Features

- Compact and lightweight with Reinforced aluminum frame.
- Easy interface with Robot and other equipment
- Suitable for Small and medium-sized injection molding machine.
- The flat belt surface can be used as a table for a simple finishing job.

► Applications



Take - out Robot Specification

Type	I.M.M (ton)	Series	Payload (Kg)	Vertical unit			Controller	Driving method		
				Product	Runner	Telescopic		Traverse	Crosswise	Vertical
Traverse Type	3000 ~ 4500	GIGA-5030	50	O		2x	YUCON-700	AC servo	AC servo	AC servo
		MEGA-3000	80	O		2x	YUCON-500	AC servo	AC servo	AC servo
	2000 ~ 3000	GIGA-5025	50	O		2x	YUCON-700	AC servo	AC servo	AC servo
		GIGA-3525	35	O		2x	YUCON-700	AC servo	AC servo	AC servo
		MEGA-2500	45	O		2x	YUCON-500	AC servo	AC servo	AC servo
		GIGA-3520	35	O		2x	YUCON-700	AC servo	AC servo	AC servo
	1600 ~ 2000	GIGA-2020	20	O		2x	YUCON-700	AC servo	AC servo	AC servo
		MEGA-2000	30	O		2x	YUCON-500	AC servo	AC servo	AC servo
	1000 ~ 1300	GIGA-2018	20	O		2x	YUCON-700	AC servo	AC servo	AC servo
		GIGA-1018	10	O		2x	YUCON-700	AC servo	AC servo	AC servo
		MEGA-1800	25	O		2x	YUCON-500	AC servo	AC servo	AC servo
		SEMA-2518	25	O		2x	YUCON-650	AC servo	AC servo	AC servo
	450 ~ 850	SEMA-2518s	25	O	O	2x	YUCON-650	AC servo	AC servo	AC servo
		GIGA-2015	20	O		2x	YUCON-700	AC servo	AC servo	AC servo
		GIGA-1015	10	O		2x	YUCON-700	AC servo	AC servo	AC servo
		SEMA-1515	15	O		2x	YUCON-650	AC servo	AC servo	AC servo
	350 ~ 550	SEMA-1515s	15	O	O	2x	YUCON-650	AC servo	AC servo	AC servo
		SIGMA-1500STM	15	O		2x	YUCON-500	AC servo	AC servo	AC servo
		GIGA-1012	10	O		2x	YUCON-700	AC servo	AC servo	AC servo
		SEMA-1012	10	O		2x	YUCON-650	AC servo	AC servo	AC servo
	220 ~ 350	SEMA-1012s	10	O	O	2x	YUCON-650	AC servo	AC servo	AC servo
		Ezi-1200v	10	O		2x	YUCON-260	AC servo	Air cylinder	Air cylinder
		Ezi-1200sv	10	O	O	2x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SIGMA-1200STM	12	O		2x	YUCON-500	AC servo	AC servo	AC servo
	150 ~ 350	SONIX-810i-H	8	O		1x	YUCON-700	AC servo	AC servo	AC servo
		SONIX-810is-H	8	O	O	1x	YUCON-700	AC servo	AC servo	AC servo
		SONIX-810	8	O		2x	YUCON-670	AC servo	AC servo	AC servo
		SONIX-810s	8	O	O	2x	YUCON-670	AC servo	AC servo	AC servo
Side Entry Type	80 ~ 220	SONIX-810i	8	O		1x	YUCON-670	AC servo	AC servo	AC servo
		SONIX-810is	8	O	O	1x	YUCON-670	AC servo	AC servo	AC servo
		SEMA-510i	5	O		1x	YUCON-650	AC servo	Linear servo	AC servo
		SEMA-510is	5	O	O	1x	YUCON-650	AC servo	Linear servo	AC servo
	80 ~ 180	SEKO-509	5	O		2x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-509s	5	O	O	2x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-510	5	O		2x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-510s	5	O	O	2x	YUCON-260	AC servo	Air cylinder	Air cylinder
	80 ~ 220	SONIX-808i-H	8	O		1x	YUCON-700	AC servo	AC servo	AC servo
		SONIX-808is-H	8	O	O	1x	YUCON-700	AC servo	AC servo	AC servo
		SONIX-808	8	O		2x	YUCON-670	AC servo	AC servo	AC servo
		SONIX-808s	8	O	O	2x	YUCON-670	AC servo	AC servo	AC servo
	80 ~ 160	SONIX-808i	8	O		1x	YUCON-670	AC servo	AC servo	AC servo
		SONIX-808is	8	O	O	1x	YUCON-670	AC servo	AC servo	AC servo
		SEMA-509i	5	O		1x	YUCON-650	AC servo	Linear servo	AC servo
		SEMA-509is	5	O	O	1x	YUCON-650	AC servo	Linear servo	AC servo
	30 ~ 80	SEKO-206i	2	O		1x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-206is	2	O	O	1x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-208i	2	O		1x	YUCON-260	AC servo	Air cylinder	Air cylinder
		SEKO-208is	2	O	O	1x	YUCON-260	AC servo	Air cylinder	Air cylinder
Swing Type	~ 30	SEMA-308i	3	O		1x	YUCON-650	AC servo	Linear servo	AC servo
		SEMA-308is	3	O	O	1x	YUCON-650	AC servo	Linear servo	AC servo
		ZEBA-312X-H	3	O		1x	YUCON-700	AC servo (Entry)	Linear servo	AC servo
		ZEBA-315X-H	3	O		1x	YUCON-700	AC servo (Entry)	Linear servo	AC servo
Swing Type	150 ~ 220	SMUS-800	2	O		1x	STEC-K4	-	Air cylinder	Air cylinder
	80 ~ 160	SMUS-600	2	O		1x	STEC-K4	-	Air cylinder	Air cylinder
	30 ~ 80	SMUS-450	2	O		1x	STEC-K4	-	Air cylinder	Air cylinder
	~ 30	SMUS-300	2	O		1x	STEC-K4	-	Air cylinder	Air cylinder

* The table above is displayed for user's better understanding of selecting robot. Additional discussion must be made for suitable selection of robot size.

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AFFILIATED COMPANY



YUDO
Measurement : 49,360m²
Employees : 434
Items : Hot runner systems



YUDO-SUNS
Measurement : 11,672m²
Employees : 247
Items : Take-out Robor,
Auto-feeding System,
Heating & Cooling System,
Factory Automation System



PETONE
Measurement : 29,752m²
Employees : 62
Items : PET preform &
Packaging solution



YUDO-ROBOTICS
Measurement : 4,960m²
Employees : 55
Items : Automation
Machining system

NORTH-EAST ASIA



Suzhou-1/2/3.China
Measurement : 17,214m²
Employees : 525
Items : Hot Runner System
Controller and so on



Suzhou-4, China
Measurement : 8,600m²
Employees : 80
Items : Hot Runner System
Controller and so on



Dongguan, China
Measurement : 4,000m²
Employees : 202
Items : Hot Runner System



Weihai, China
Measurement : 34,528m²
Employees : 163
Items : Auxiliary System



Tokyo, Japan
Measurement : 811m²
Employees : 28
Items : Hot runner systems
PET Perform & Packaging

SOUTH-EAST ASIA



Singapore
Measurement : 5,960m²
Employees : 32
Items : Hot Runner System
Mold Base



Samutprakan, Thailand
Measurement : 6,446m²
Employees : 85
Items : Hot Runner System
Mold Base



Johor, Malaysia
Measurement : 7,639m²
Employees : 48
Items : Hot Runner System
Mold Base



Vasai-East, India
Measurement : 1,500m²
Employees : 35
Items : Hot Runner System
Robot, Auxiliary System



Jawa Barat, Indonesia
Measurement : 153m²
Employees : 19
Items : Hot Runner System
Mold Base

EUROPE / AMERICA



Portugal, EU
Measurement : 2,645m²
Employees : 59
Items : Hot Runner System
Robot, Auxiliary System



Michigan, U.S.A
Measurement : 2,043m²
Employees : 19
Items : Hot Runner System
Robot, Auxiliary System



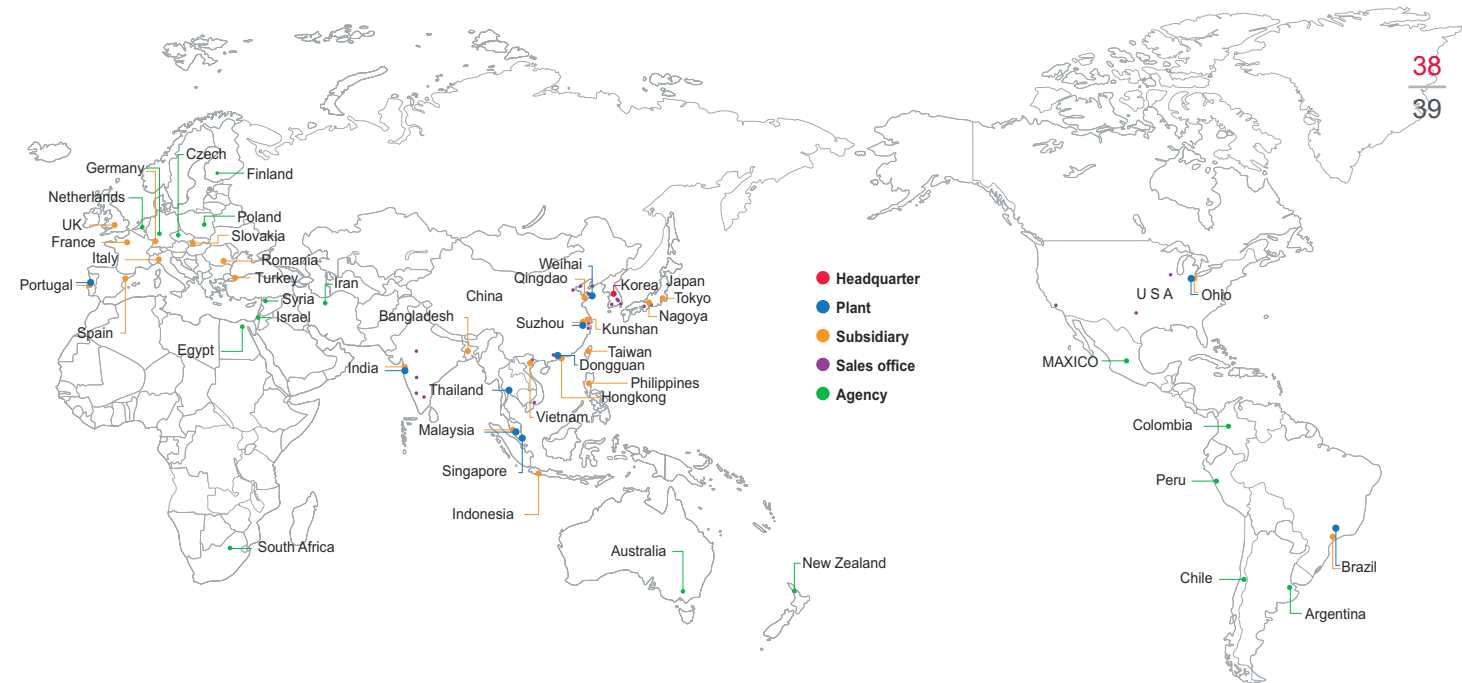
Joinville, Brazil
Measurement : 7,300m²
Employees : 48
Items : Hot Runner System



Sao Paulo, Brazil
Measurement : 561m²
Employees : 4
Items : Hot Runner System



Queretaro, Mexico
Measurement : 200m²
Employees : 12
Items : Hot Runner System
Robot, Auxiliary System



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