

Heartful Technology

Yushin

NETLINER

V5X- α Servo Traverse Robot **SERIES**

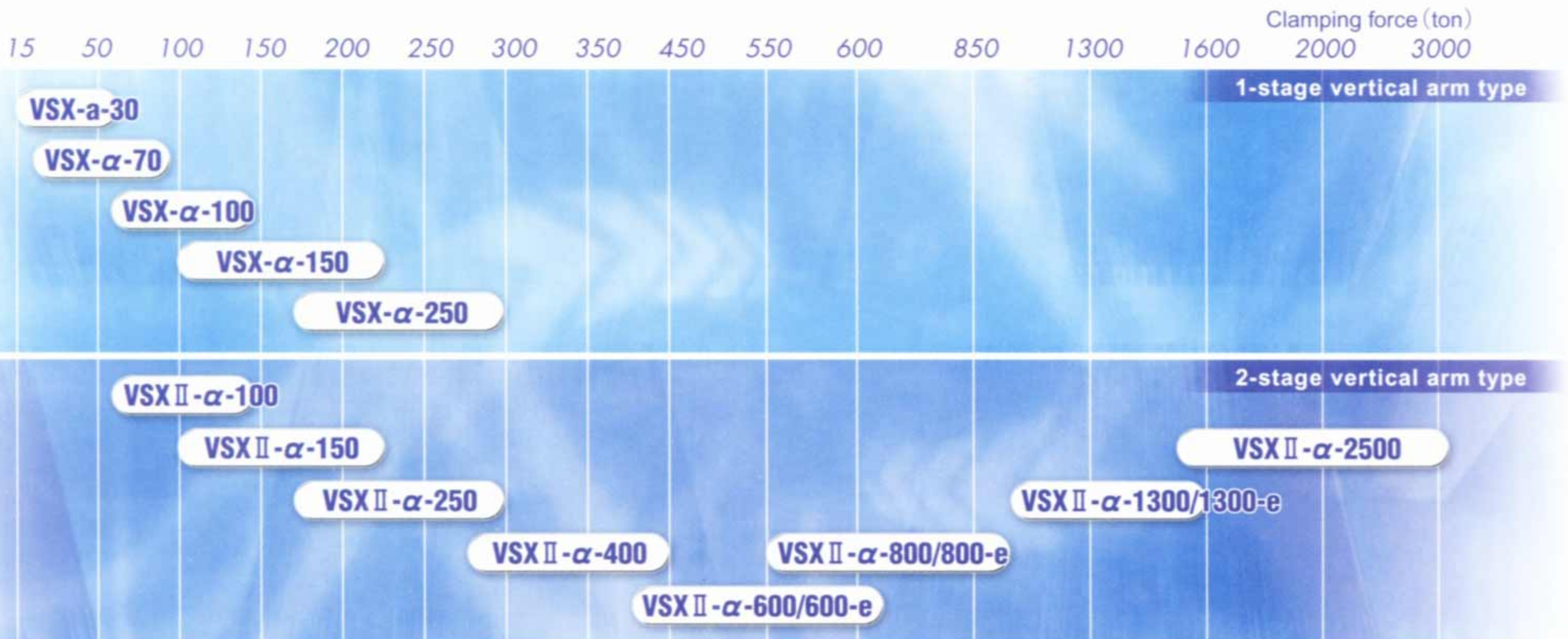
V5X/V5XII



Yushin Precision Equipment Co.,Ltd.

VSX-a/VSX- α /VSX II- α series

Make the best choice from the most various lineup in the industry.



NETLINER VSX-a/VSX- α /VSX II- α series E-touch mini controller

High function controller

Remarkable controller handling has been achieved by adopting both the colored 6.5-inch touch panel and function keys



➤ Space Saving

This handy-sized controller achieves space saving as there is no need to put a control box on the floor.

➤ Adoption of memory cartridge

Teaching data can be backed up in a memory cartridge and copied into other robots. Only changing memory cartridges changes motion programs. Further, it can store mold data up to 50 molds.



➤ Deadman Switches with 3 shifts

We attached deadman switches on a handheld controller. They shift by 3 steps, OFF, ON and OFF for emergency. Such a function prevents misoperation and secures the safety.





Clamping force : less than 60t.
3/5-axis all servo-driven robot
for micro molding machines.

Equipped with E-touch mini controller

VSX-a-30S/D

The VSX-a-30 servo-driven traverse robot is well suited to extraction of precision or micro molded parts such as connectors and gears. The robot then releases the parts so that they are 100% separated by cavity.

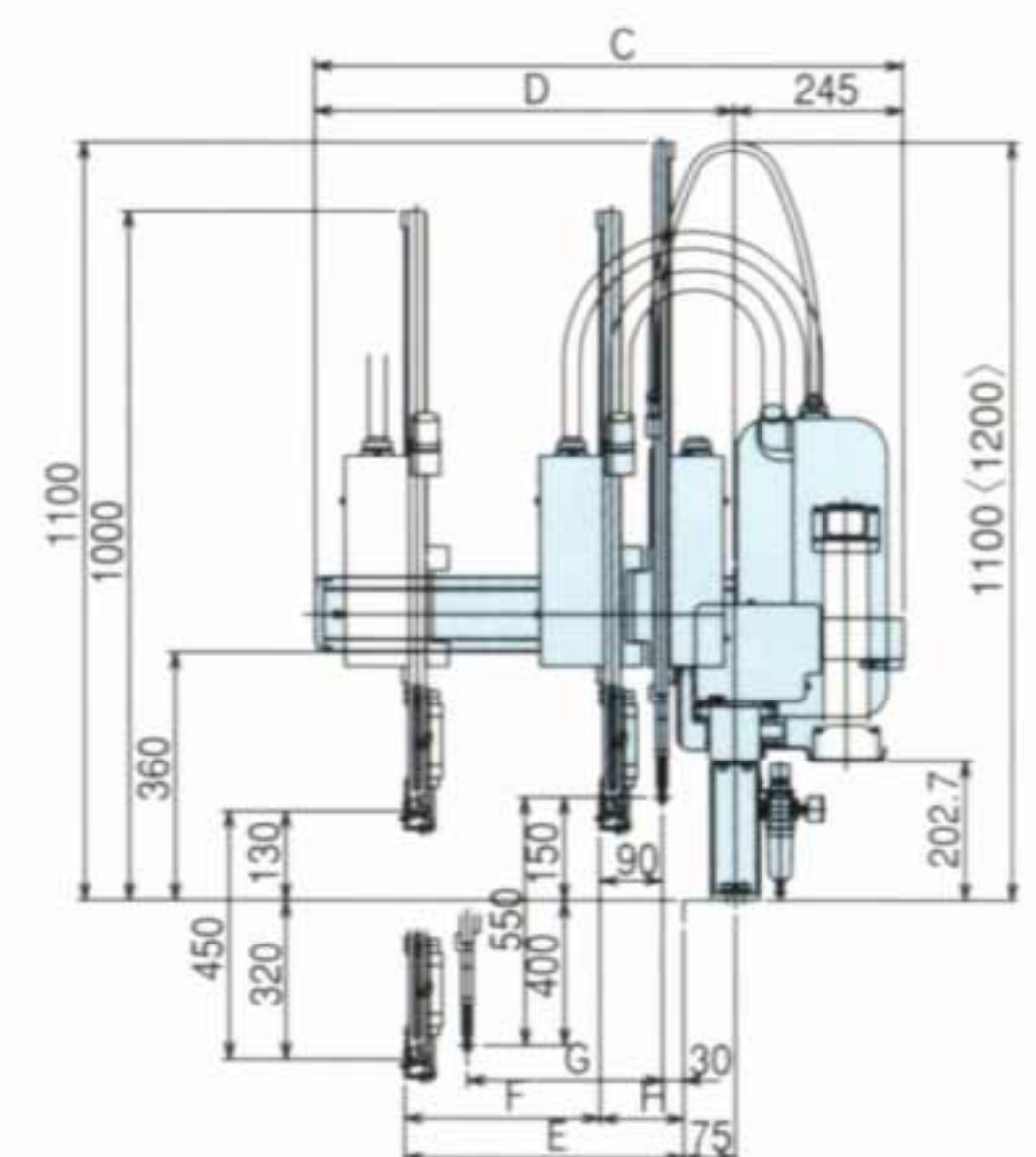
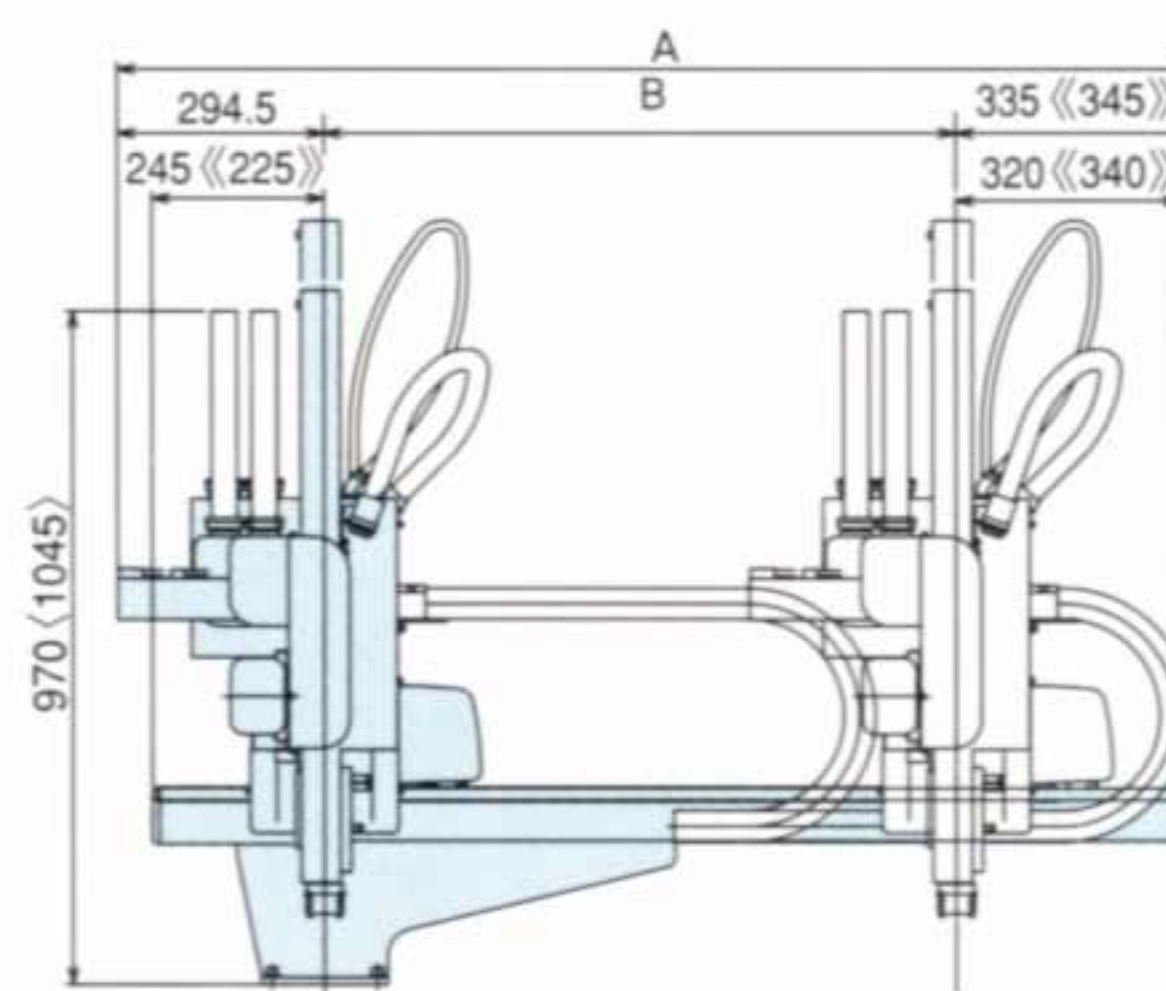
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

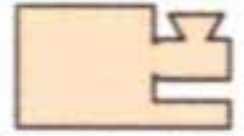

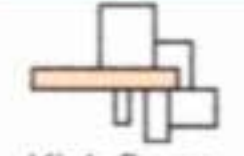
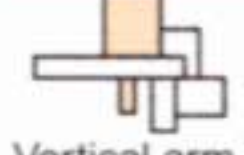

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSX-a-30S	Single phase AC200V 8.8A	900(1200)	320 <470>	—	450	—	3	less than 2kg. [※]	less than 60
VSX-a-30D	Single phase AC200V 10.0A	<1600>	280 <430>	280 <430>	—	550			

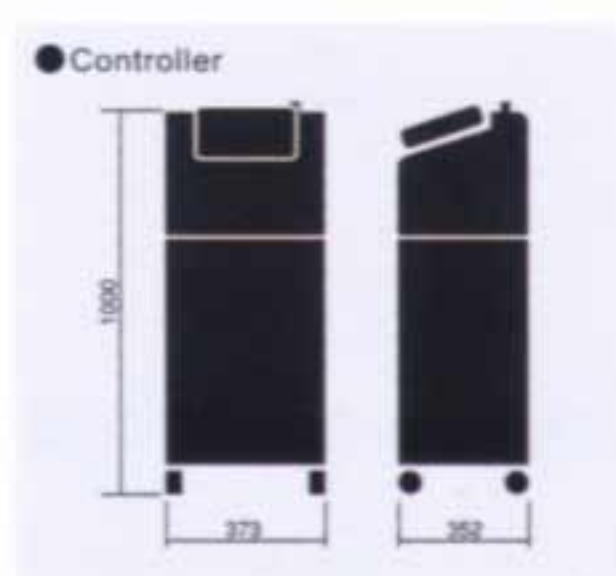
() Type L, () Type LL
[※]The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **less than 60t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Single support kick flame**
Kick flame
-  **1-Stage non-telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **E-touch mini**
Controller



Model	A		B	C	D	E	F	G	H
	Front-side type	Rear-side type							
VSX-a-30S	1529.5 (1829.5)	1539.5 (1839.5)	900 (1200)	848 <998>	603 <753>	400 <550>	320 <470>	—	80
VSX-a-30D	2229.5	2239.5	<1600>	280 <430>	280 <430>	—	280 <430>	280 <430>	120

() Type L, () Type LL, () Rear-side type

Clamping force : 30~80t.
3/5-axis all servo-driven robot
for small molding machines.

Equipped with E-touch mini controller



VSX-α70S/D

The VSX-α-70 servo-driven traverse robot is designed for small size molding machines from 30 to 80-tons. The α-series robots incorporate steel traverse beams for superior rigidity for precise placement of parts into downstream equipment.

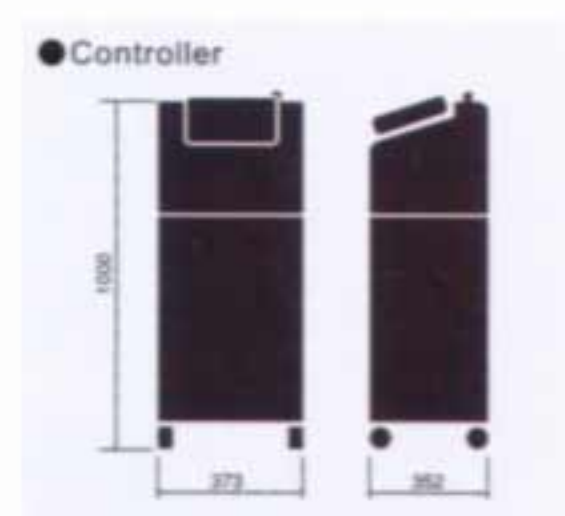
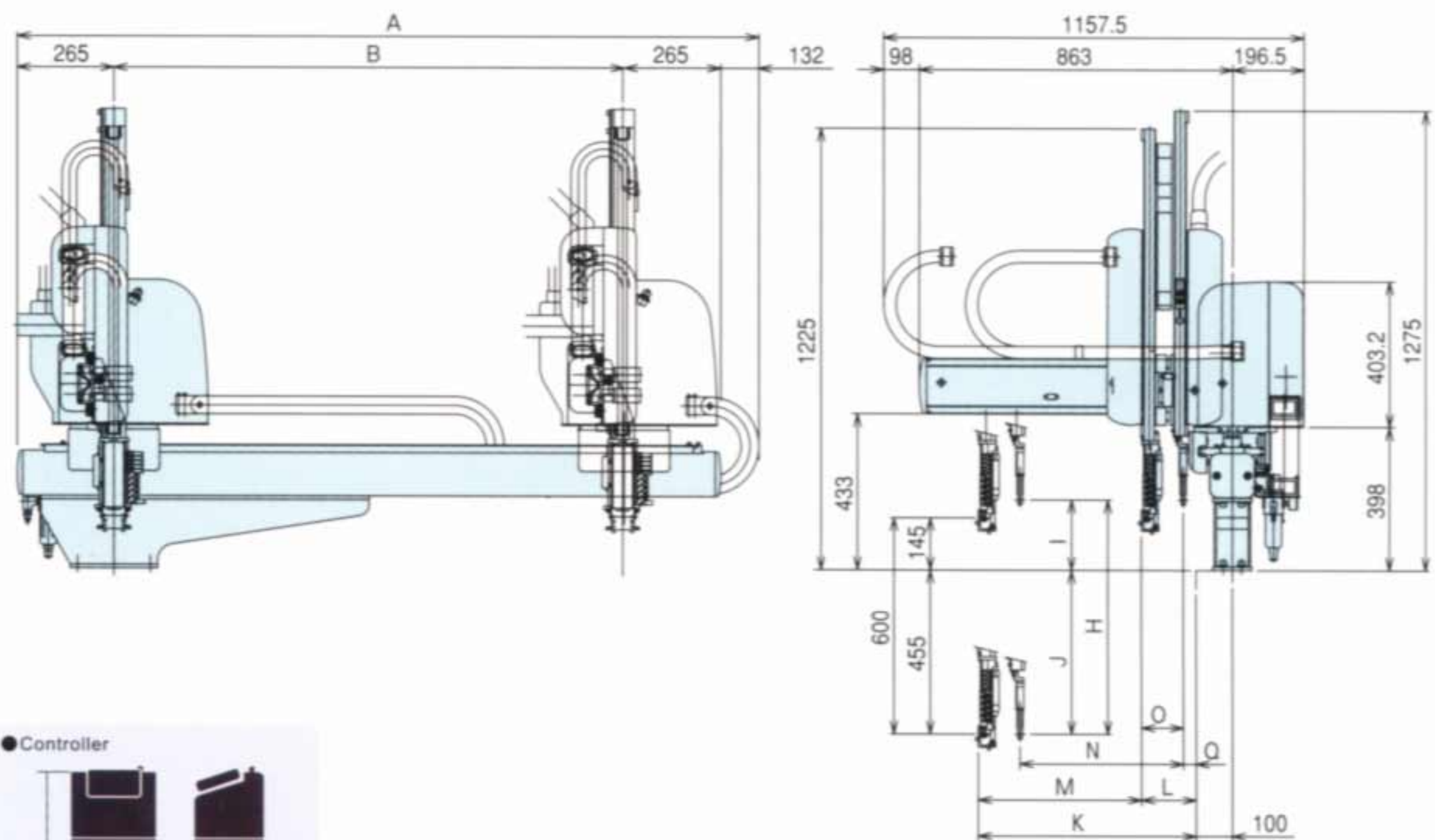
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSX-α-70S	Single phase AC200V 6.8A	(1400) <1700>	500	—	600	—	2.6	less than 3kg.※	30~80
VSX-α-70D	Single phase AC200V 8.0A		450	450		650			

() Type L, () Type LL
※The payload varies depending on the take-out robot speed setting.

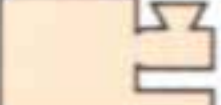


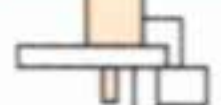
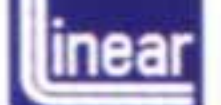

Dimensions(mm)



Model	A	B	H	I	J	K	L	M	N	O	Q
VSX-α-70SL	(2062)	(1400)	—	—	—	600	100	500	—	—	—
VSX-α-70DL	(2362)	<1700>	650	195	455	600	150	450	450	115	35

() Type L, () Type LL

Features

-  **30~80t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Single support kick flame**
Kick flame
-  **1-Stage non-telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **E-touch mini**
Controller



Clamping force : 80~300t.
3/5-axis all servo-driven robot
for small molding machines.

Equipped with E-touch mini controller

VSX-α-100S/D VSX-α-150S/D VSX-α-250S/D

The VSX-α-100~250 servo-driven traverse robots incorporate a non-telescopic vertical arm and a dual support kick frame to achieve a balance between cost and capability.

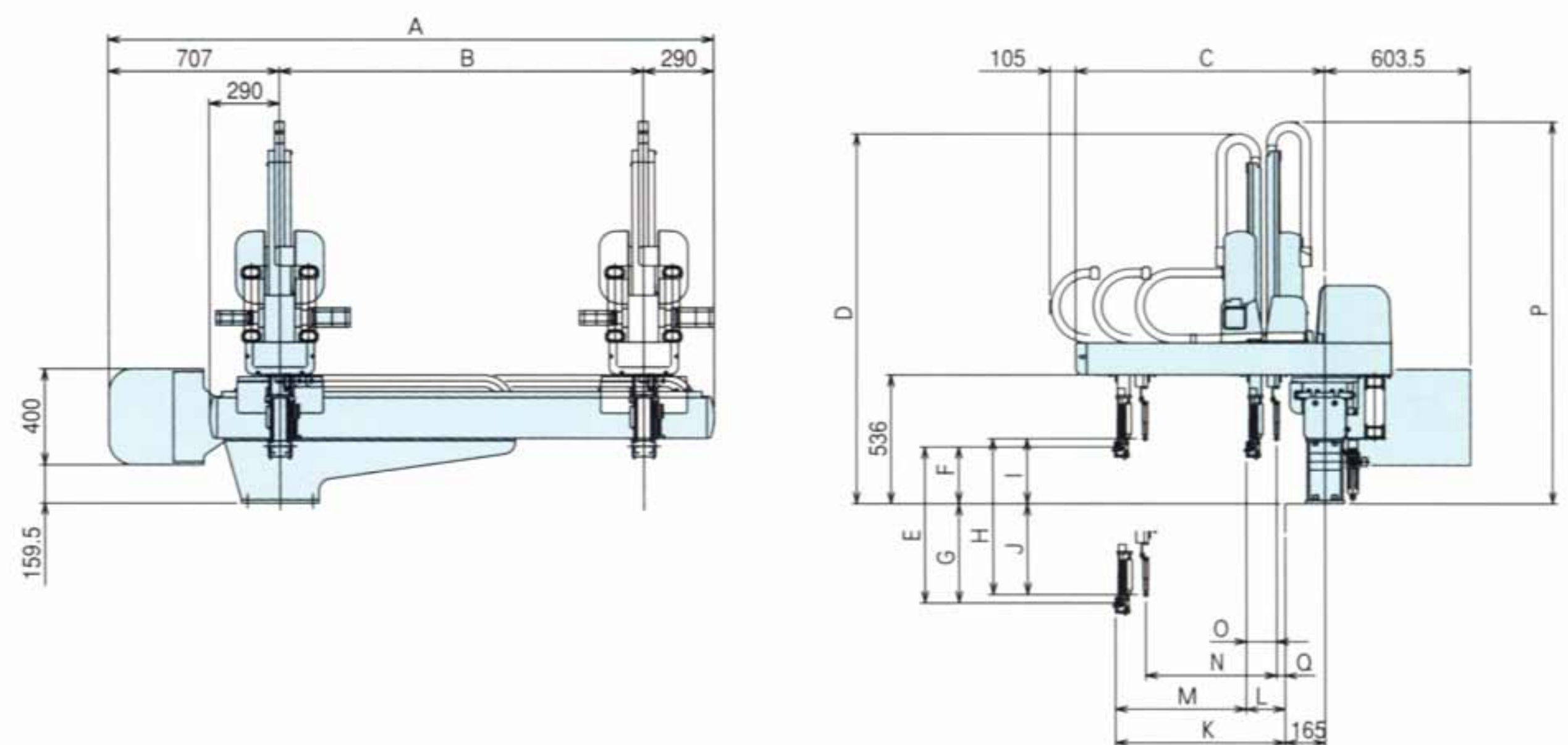
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

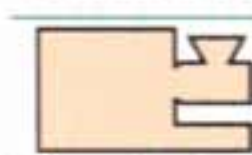
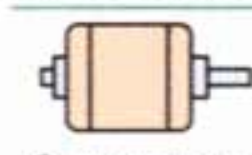
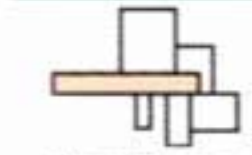
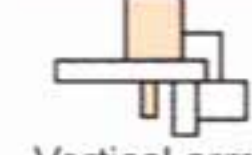

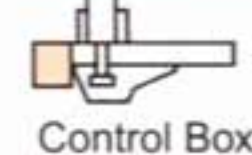

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSX-α-100S	S type Single phase AC200V 11A	1100(1500) <1700>	625	—	650	—	3	less than 5kg.*	80~130
VSX-α-100D			540	540		700			
VSX-α-150S			625	—	800	—			
VSX-α-150D	540	540	850						
VSX-α-250S	D type Single phase AC200V 14A	1500 (1700) <1900>	775	—	900	—			180~300
VSX-α-250D			690	690		950			

() Type L, () Type LL
*The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **80~300t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick frame**
Kick frame
-  **1-Stage non-telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

型式	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VSX-α-100S	2097	1100	1022	1542	650	236	414	—	—	—	700	75	625	—	—	—	—
VSX-α-100D	2497 <2697>	(1500) <1700>						700	271	429		160	540	540	125	1592	35
VSX-α-150S	2497 (2697) <2897>	1500 (1700) <1900>	1172	1794	900	664	564	850	271	579	850	160	540	540	125	1732	35
VSX-α-150D								—	—	—		75	775	—	—	—	—
VSX-α-250S	2497 (2697) <2897>	1500 (1700) <1900>	1172	1794	900	664	564	950	271	679	850	160	690	690	125	1844	35
VSX-α-250D								—	—	—		75	775	—	—	—	—

() Type L, () Type LL



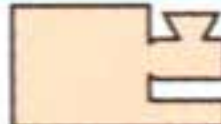

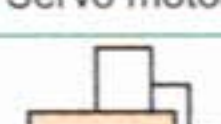
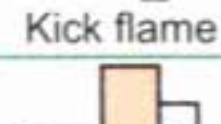

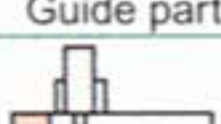

Clamping force : 80~300t.
3/5-axis all servo-driven robot
for small molding machines.

Equipped with E-touch mini controller

VSXII-α-100S/D VSXII-α-150S/D VSXII-α-250S/D

The VSXII-α-100~250 are similar to the VSX-α series robots, but they incorporate a telescopic vertical arm for operation in low ceiling clearance facilities. The α-series robots incorporate steel traverse beams for superior rigidity for precise placement of parts into downstream equipment. The VSXII-α-100~250 are well suited for post molding value-added work cells requiring precision such as gate cut systems, boxing of parts and vision inspection systems.

Features

-  **80~300t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick frame**
Kick frame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

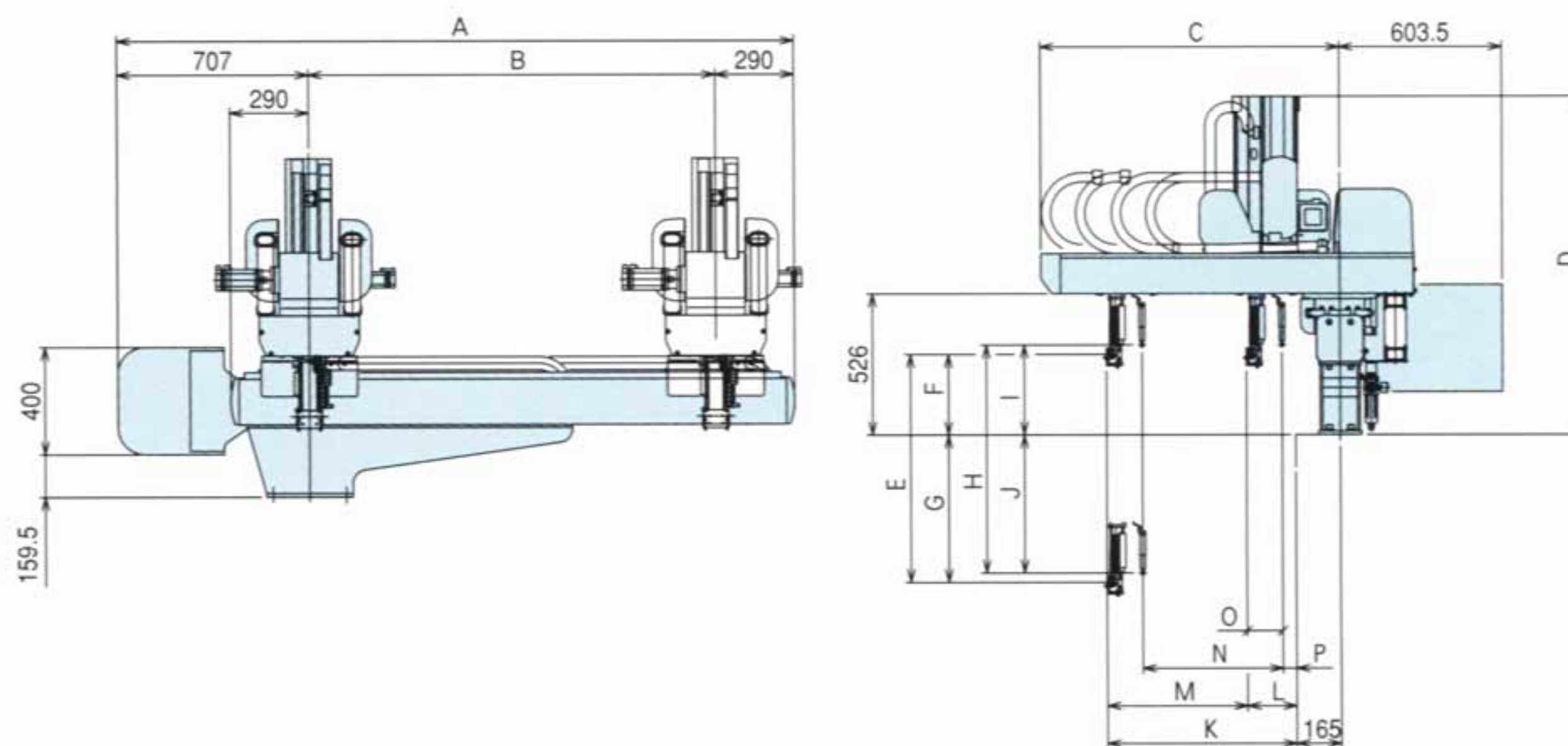
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSXII-α-100S	S type Single phase AC200V 11A	1100(1500) <1700>	578	—	700	—	6	less than 5kg.*	80~130
VSXII-α-100D			518	518		700			
VSXII-α-150S			578	—	850	—			
VSXII-α-150D	518	518	850						
VSXII-α-250S	D type Single phase AC200V 14A	1500 (1700) <1900>	728	—	950	—			180~300
VSXII-α-250D			668	668		950			

() Type L, () Type LL
*The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
VSXII-α-100S	2097	1100	1106	1187	700	300	400	—	—	—	700	122	578	—	—	—
VSXII-α-100D	(2497) <2697>	(1500) <1700>						700	335	365		182	518	518	132	50
VSXII-α-150S	—	—		1262	850		550	850	335	515	—	—	122	578	—	—
VSXII-α-150D	2497	1500	1256	1312	950	650	550	850	335	515	850	182	518	518	132	50
VSXII-α-250S	(2697) <2897>	(1700) <1900>						950	—	—		122	728	—	—	—
VSXII-α-250D	—	—		1312	950		650	950	335	615	—	—	182	668	668	132

() Type L, () Type LL

Clamping force : 280~650t.
3/5-axis all servo-driven robot
for middle class molding machines.

Equipped with E-touch mini controller



VSX II-α-400S/D VSX II-α-600S/D-e

The VSX II-α-400~600-e are similar in design to the VSX II-α-100~250 robots. However, the VSX II-α-400~600-e have larger frame construction and stronger drives for operation on mid size molding machines. The VSX II-α-600-e robot is for middle size molding machine application that requires economical operation and smaller payloads (up to 10kg).

Standard Specification

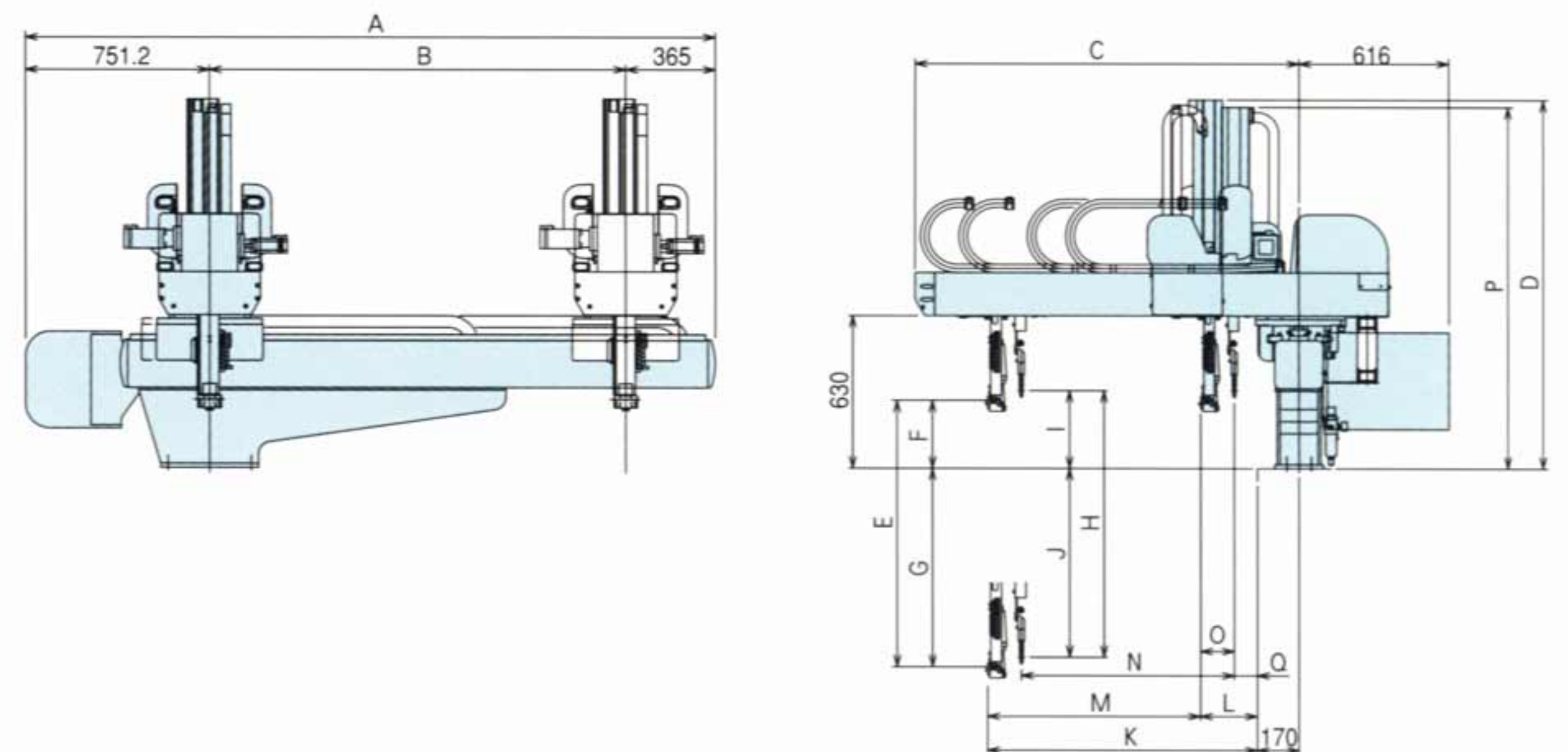
Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSX II-α-400S	S type Single phase AC200V 11A	1700(1900) (2200)	1000	—	1100	—	16	less than 10kg.※	280~450
VSX II-α-400D			868	868		1100			
VSX II-α-600S-e	D type Single phase AC200V 14A	2200 (2500)	1100	—	1300	—	21		400~650
VSX II-α-600D-e			968	968		1300			

() Type L, () Type LL

※The payload varies depending on the take-out robot speed setting.

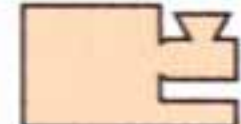
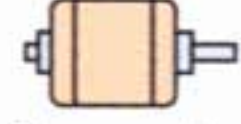
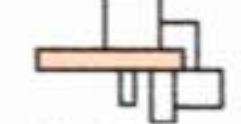




Dimensions(mm)



Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VSX II-α-400S	2816.2	1700	1564	1522	1100	280	820	—	—	—	1100	100	1000	—	—	—	—
VSX II-α-400D	3016.2	(1900)						1100	320	780		232	868	868	137	1492	95
VSX II-α-600S-e	3316.2	2200	1664	1622	1300	190	1110	—	—	—	1200	100	1100	—	—	—	—
VSX II-α-600D-e	(3616.2)	(2500)						232	968	968		137	1592	95			

() Type L, () Type LL

Features

-  **280~650t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick flame**
Kick flame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

Clamping force : 400~1000t.
3/5-axis all servo-driven robot
for middle class /large molding machines.

Equipped with E-touch mini controller



VSXII-α-600S/D VSXII-α-800S/D-e

The VSXII-α-600~800-e series robots come standard with telescoping main arms to conserve overhead clearance and are for middle to large size molding machines. The VSXII-α-800-e robot is for mid to large size molding machine application that requires economical operation and smaller payloads (up to 15kg).

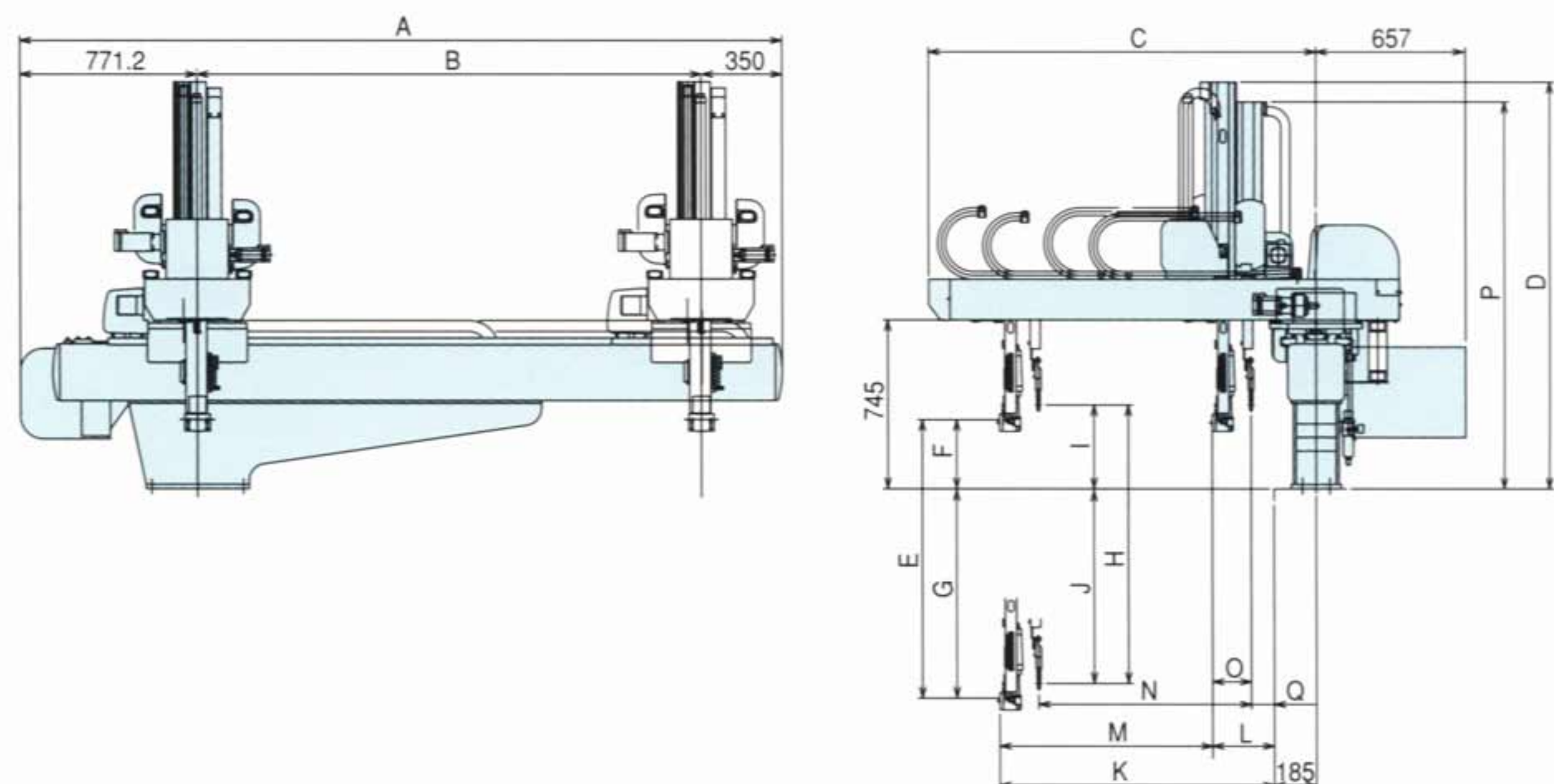
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

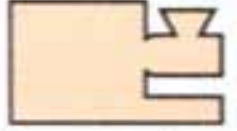
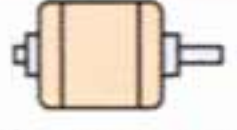
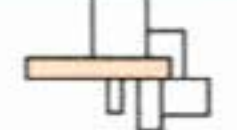
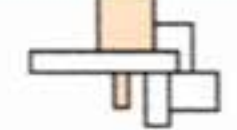



Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSXII-α-600S	S type Single phase AC200V 11A	2200 (2500)	1060	—	1300	—	22	less than 15kg. ※	400~650
VSXII-α-600D			930	930		1300			
VSXII-α-800S-e	D type Single phase AC200V 14A		1160	—	1550	—	29		550~1000
VSXII-α-800D-e			1030	1030		1550			

() Type L
※The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **400~1000t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick flame**
Kick flame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
VSXII-α-600S	3321.2 (3621.2)	2200 (2500)	1693	1794	1300	305	995	—	—	—	1200	140	1060	—	—	—	—		
VSXII-α-600D			—	—	—	—	—	—	1300	370	930	—	270	930	930	170	1707	100	
VSXII-α-800S-e			—	—	—	—	—	—	—	—	—	—	1300	140	1160	—	—	—	—
VSXII-α-800D-e			—	—	—	—	—	—	—	1550	310	1240	—	270	1030	1030	170	1832	100

() Type L



Clamping force : 550~1600t.
3/5-axis all servo-driven robot
for large molding machines.

Equipped with E-touch mini controller

VSX II-α-800S/D VSX II-α-1300S/D-e

The VSX II-α-800~1300-e series robots are designed for large molding machines and are built to handle large molded products under stable high-speed operation. The VSX II-α-1300-e robot is for mid size molding machine application that requires economical operation and smaller payloads (up to 25kg).

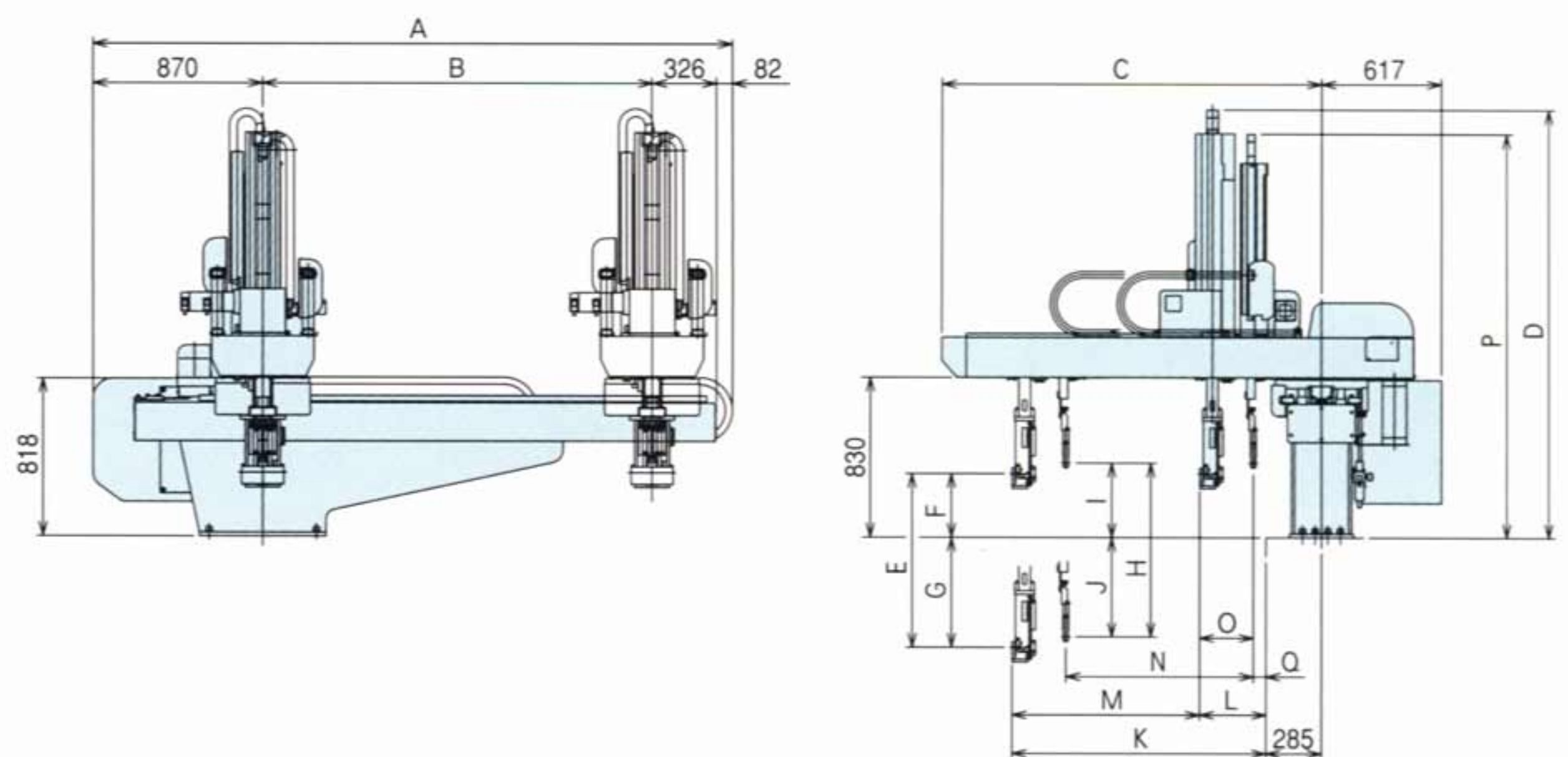
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

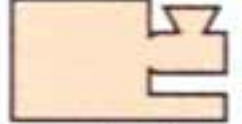



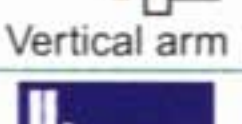
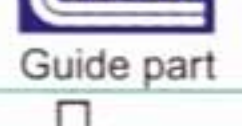
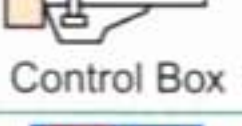
Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSX II-α-800S	S type Triple phase AC200V 9.1A	2000(2500) <3000>	1140	—	1550	—	33	less than 25kg.※	550~1000
VSX II-α-800D			960	960		1550			
VSX II-α-1300S-e	D type Triple phase AC200V 12.1A	2500 (3000)	1540	—	1800	—	36		1000~1600
VSX II-α-1300D-e			1360	1360		1800			

() Type L, () Type LL
※The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **550~1600t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick flame**
Kick flame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
VSX II-α-800S	3278 (3778)	2000 (2500)	1941	2218	1550	330	1220	—	—	—	1300	160	1140	—	—	2092.5	—
VSX II-α-800D	3778 (4278)	3000						960	960	275		65					
VSX II-α-1300S-e	3778 (4278)	2500 (3000)	2341	2392.5	1800	130	1670	—	—	—	1700	160	1540	—	—	2211	—
VSX II-α-1300D-e	4278	3000						340	1360	275		65					

() Type L, () Type LL

Clamping force : 1000~1600t.
3/5-axis all servo-driven robot
for large molding machines.

Equipped with E-touch mini controller



VSXII-α-1300S/D

The VSXII-α-1300 is developed for taking out larger and heavier molded products than the VSXII-α-800 and VSXII-α-1300-e. The increased payloads allow greater capability to perform labor saving operations.

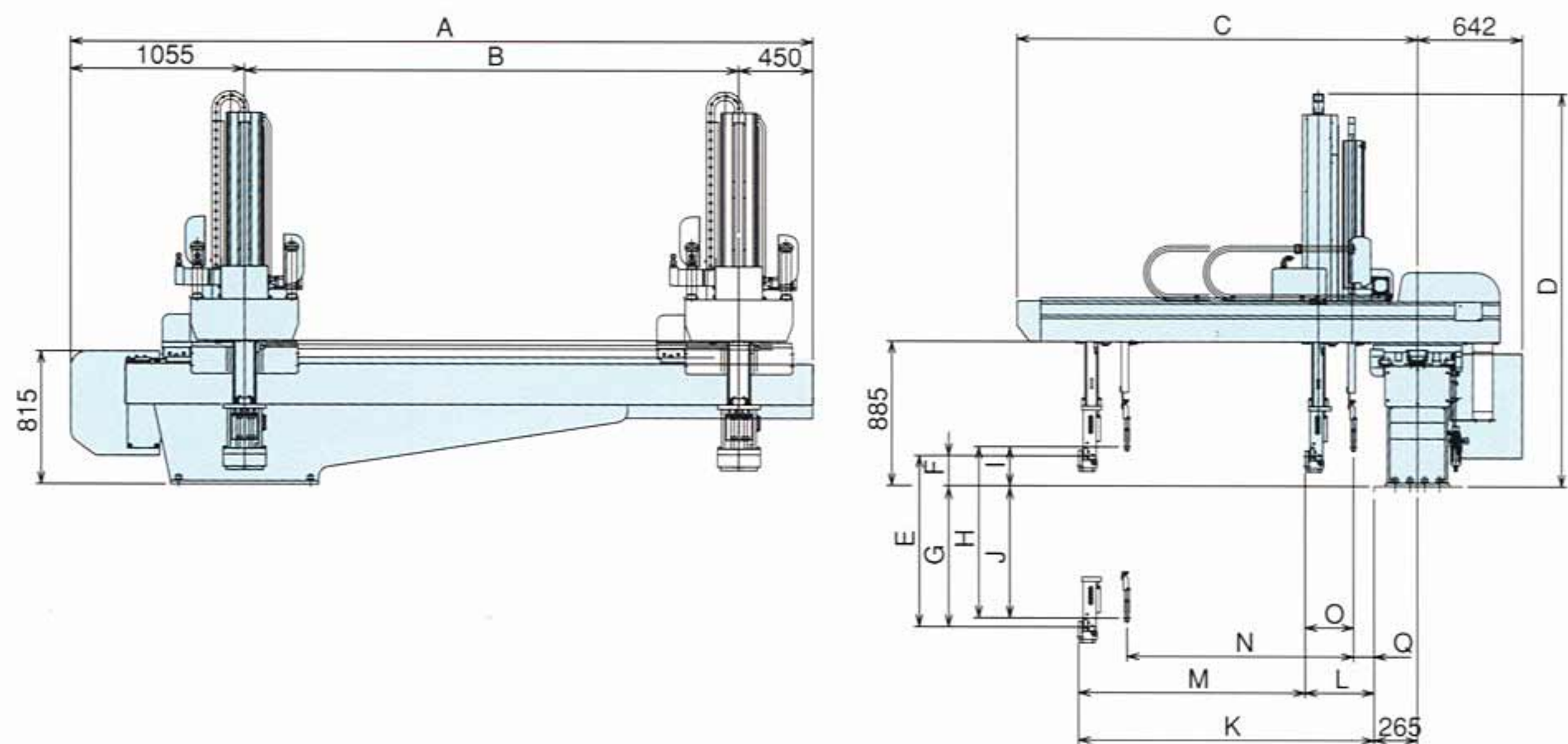
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

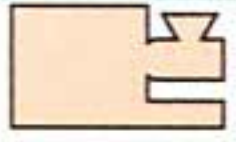
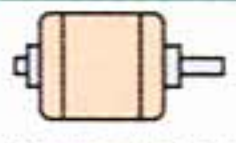
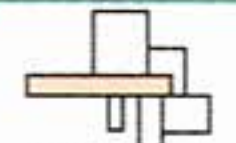
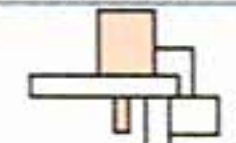

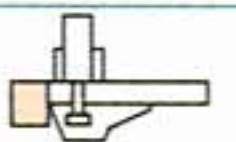

Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)	Clamping force (ton)
			Main arm	Sub arm	Main arm	Sub arm			
VSXII-α-1300S	Triple phase AC200V 9.1A	3000 (3500)	1570	—	1800	—	51	less than 35kg.※	1000~1600
VSXII-α-1300D	Triple phase AC200V 12.1A		1380	1380		1800			

() Type L
※The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **1000~1600t**
Clamping force
-  **3/5-axis**
Servo motor
-  **Dual support kick flame**
Kick flame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Q
VSXII-α-1300S	4505	3000	2439	2410	1800	185	1615	—	—	—	1800	230	1570	—	295	125
VSXII-α-1300D	(5005)	(3500)						1800	240	1560		420	1380	1380		

() Type L

Clamping force : Over 1500t.
3-axis all servo-driven robot
for super large molding machines.

Equipped with E-touch mini controller



VSXII-α-2500S

The VSXII-α-2500 is designed to remove very large molded products such as automotive or housing parts molded by machines over 1500-tons. The α-series robots incorporate steel traverse beams for superior rigidity for precise placement of parts into downstream equipment.

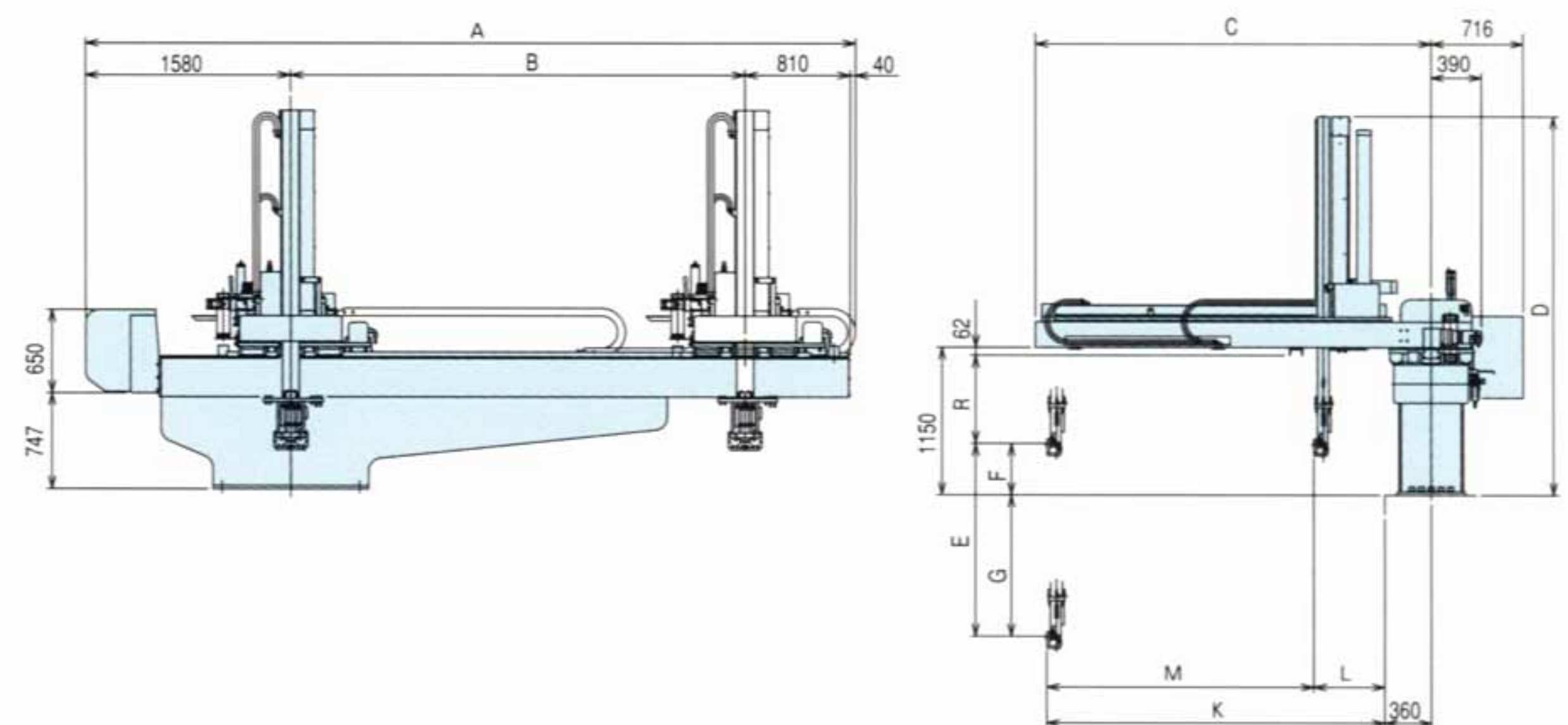
Standard Specification

Power source	Driving method	Control system	Air pressure	Maximum air pressure	Wrist flip angle
AC200V (50/60Hz)	Digital servo motor (3/5axis Max)	Micro computer control	0.49MPa	0.79MPa	90deg.

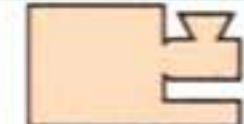
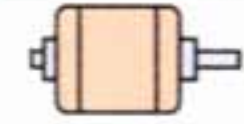
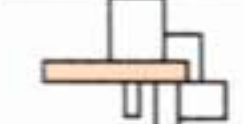
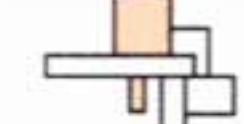



Model	Maximum power consumption	Traverse stroke (mm)	Kick stroke (mm)		Vertical stroke (mm)		Air consumption (litre/cycle)	Maximum payload (kg)
			Main arm	Sub arm	Main arm	Sub arm		
VSXII-α-2500S	Triple phase AC200V 12.4A	3500 (4500) <5000>	2050	—	2500 <<3000>>	—	132	less than 50kg. [80kg]

() Type L, () Type LL <> Extended vertical arm type
[] Increased payload specification
※The payload varies depending on the take-out robot speed setting.

Dimensions(mm)



Features

-  **Over 1500t**
Clamping force
-  **3-axis**
Servo motor
-  **Dual support kick flame**
Kick flame
-  **2-Stage telescopic vertical arm type**
Vertical arm
-  **Yushin linear rail**
Guide part
-  **Unified to robot**
Control Box
-  **E-touch mini**
Controller

Model	A	B	C	D	E	F	G	K	L	M	R
VSXII-α-2500S	5930 (6930)	3500 (4500)	3050	2950 <<3190>>	2500 <<3000>>	400	2100 <<2600>>	2600	550	2050	688
VSXII-α-2500S Increased payload specification	<7430>	<5000>				370	2130 <<2630>>	2610	560		718

() Type L, () Type LL <> Extended vertical arm type