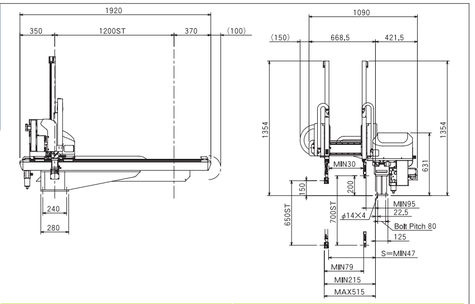
HRX-80Sa
HRX-80Ga

IMM size
40t~80t

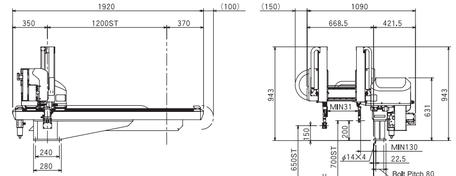


MODEL		HRX-80Sa	HRX-80Ga
Main arm vertical stroke*	(mm)	650 (750)	
Sub arm vertical stroke*	(mm)	—	700 (800)
Main arm kick stroke	(mm)	425 (605)	300 (480)
Sub arm kick stroke	(mm)	—	300 (480)
Traverse stroke*	(mm)	1200 (1600)	
Max. payload	(kg)	3 (including EOAT)	
Weight	(kg)	160	175
Working air pressure	(Mpa)	0.6	
Air consumption*	(Nℓ/cycle)	0.47	0.51
Drive system		Digital AC servo motor (3/5 axes)	
Control method		PTP・CP	
Power supply	(V)	3-phase 200VAC+10%／-15% (50Hz／60Hz)	
Installed capacity	(KVA)	2.5	
Power consumption	(W)	1350	1950

*( ) = option *Additional 63Nℓ/min is needed when a vacuum ejector is used.

HRX-80SWa
HRX-80GWa

IMM size
40t~80t

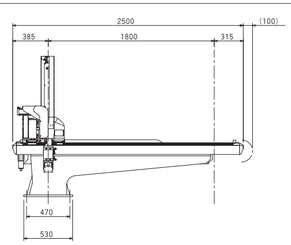


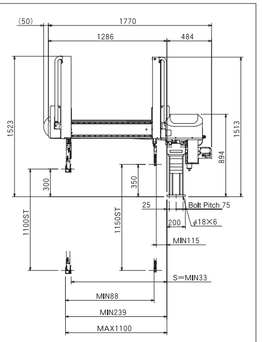
MODEL		HRX-80SWa	HRX-80GWa
Main arm vertical stroke*	(mm)	650 (750)	
Sub arm vertical stroke*	(mm)	—	700 (800)
Main arm kick stroke	(mm)	425 (605)	263 (443)
Sub arm kick stroke	(mm)	—	263 (443)
Traverse stroke*	(mm)	1200 (1600)	
Max. payload	(kg)	3 (including EOAT)	
Weight	(kg)	165	180
Working air pressure	(Mpa)	0.6	
Air consumption*	(Nℓ/cycle)	0.47	0.51
Drive system		Digital AC servo motor (3/5 axes)	
Control method		PTP・CP	
Power supply	(V)	3-phase 200VAC+10%／-15% (50Hz／60Hz)	
Installed capacity	(KVA)	2.5	
Power consumption	(W)	1350	1950

*( ) = option *Additional 63Nℓ/min is needed when a vacuum ejector is used.

HRX-300SWa
HRX-300GWa

IMM size
260t~450t





MODEL		HRX-300SWa	HRX-300GWa
Main arm vertical stroke*	(mm)	1100	
Sub arm vertical stroke*	(mm)	—	1150
Main arm kick stroke	(mm)	1015	861
Sub arm kick stroke	(mm)	—	861
Traverse stroke*	(mm)	1800 (2000)	
Max. payload	(kg)	10 (including EOAT)	
Weight	(kg)	315	340
Working air pressure	(Mpa)	0.6	
Air consumption*	(Nℓ/cycle)	1.69	1.76
Drive system		Digital AC servo motor (3/5 axes)	
Control method		PTP・CP	
Power supply	(V)	3-phase 200VAC+10%／-15% (50Hz／60Hz)	
Installed capacity	(KVA)	2.5	
Power consumption	(W)	1700	2300

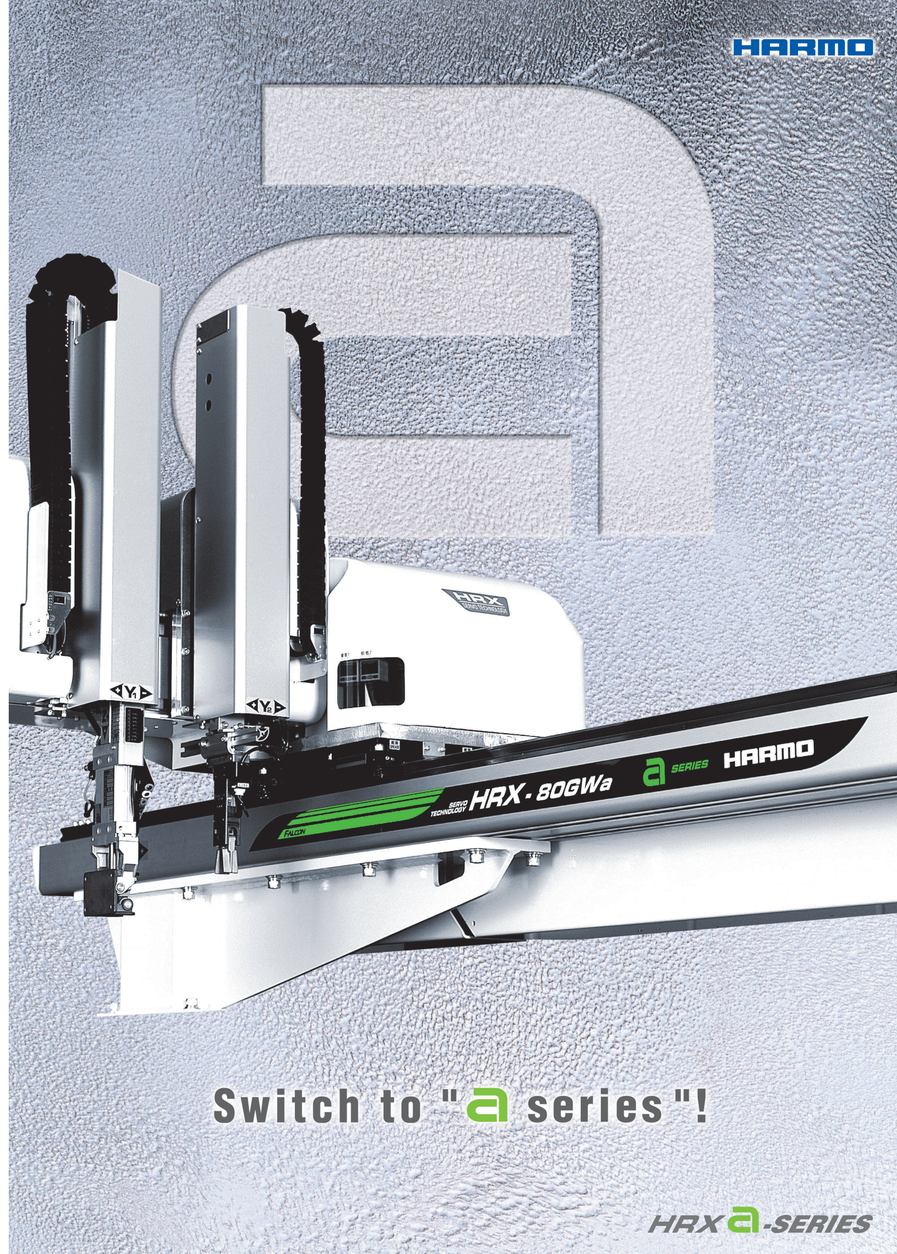
*( ) = option *Additional 63Nℓ/min is needed when a vacuum ejector is used.

Why not?

*This brochure is subject to change without notice.

Manufacturer:
HARMO CO.,LTD. ISO9001 CERTIFIED
INTERNATIONAL MARKETING DEPT.
International Marketing Department 4124-1 Minamiminowa-mura Kamiina-gun
Nagano-ken 399-4595
TEL.+81-265-72-0111
http://www.harmo-net.co.jp

HRX-aE 10021KP



Lightweight compact, but feature packed

HRS-1100 controller

One-hand-held, lightweight, and compact!

Mold data can be stored in the internal memory plus USB memory.

Fall preventing strap

Three-position safety switch ensures easy operation and safety.

Key selector switches (OFF/ MANUAL/ AUTO) offers easy data protection.

Membrane manual operation switches as RCA series controllers.

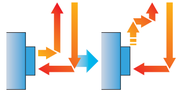
One Kg of pendant
40mm slim body

Corner protectors (shown by a star)
Corner protectors protect the pendant from possible falling accident.

5.7 inch touch panel with quick response!

Quick program

- Users can modify programs easily on site.
- Programs can be created through operating the robot.



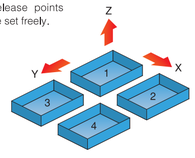
※Offline program will be available (under development)

Group management

- Increasing mold data can be grouped into customers, products, and so on.

Free palletizing

- 256 release points can be set freely.



Home Positions

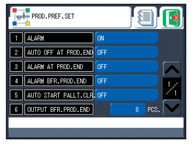
- 1st entry, outside mold, horizontal above mold, and backward (all standard)

Language Selection

- Standard five languages (Japanese, English, Chinese, Korean, and Thai)
- Other European languages are replaceable.

Production Management

- Production monitor and production preference provide different useful settings such as "automatic operation off at production end."



- The most IOs in the class (56 each)
- Points can be taught in 0.01mm.
- Maintenance messages gives users the best time for maintenance.
- Error logs make users know the possible causes of a problem.

Pick a-series robots for low cost and rich functions

Less consumption power

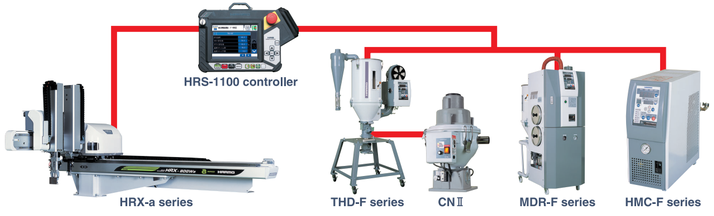
ECO

Power consumption some 25% less over the conventional one.

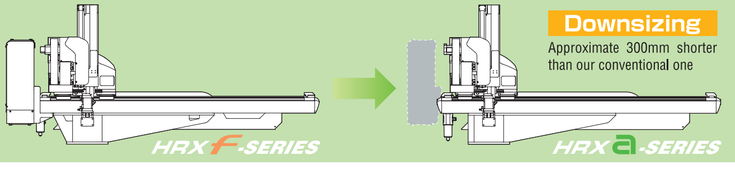
HAL-NET (HARMO ALL-AROUND LINK - NET)

Harmo only

- Communication with Harmo's F series peripheral equipment.
- You can operate peripheral equipment on the robot pendant.



Control box



Downsizing

Approximate 300mm shorter than our conventional one

Standard specification

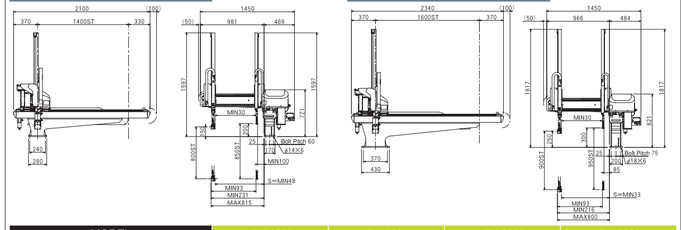
- Part grip circuit
- Vacuum circuit
- Main sprue grip
- Fine adjust in auto
- Mold memory (500 molds)
- Language select (Max. five)
- Wrist hor. above mold
- Wrist flip en-route
- H.P. outside mold
- H.P. 1st entry
- Reject release
- Initial reject counter
- In-mold release
- Runner mid release
- Fixed mold takeout
- Equal pitch palletize
- Diff. pitch palletize
- Multi-row place (4P)
- H.P. hor. above mold
- H.P. backward
- Quick operation keys (Timer, speed, IO)
- IO graph
- Servo monitor
- STEP operation
- E.O.A.T change point
- Password setting
- Logs(Maintenance,Error)
- Sampling
- Sampling counter
- Pass motion
- Quick program(64 points)
- Free palletize(256P)
- Sub arm control
- Auto off at run end
- HAL-NET(Peripheral com.)

Option

- Part grip 2 circuits
- Part grip 4 circuits
- Vacuum 2 circuits
- Vacuum 4 circuits
- Vacuum&Blow circuit
- Vacuum&Blow 2 circuits
- Vacuum&Blow 4 circuits
- TA nipper handleless
- Wait nipper valve
- Signal tower (a color/three color)
- Traverse stanchion
- Pressure monitor
- Custom color
- Air blow
- Conveyor signal
- Stocker signal
- EOAT nipper
- Valve extension
- Wrist rotation

HRX-150Sa / HRX-150Ga — IMM size 100t~220t

HRX-200Sa / HRX-200Ga — IMM size 220t~350t

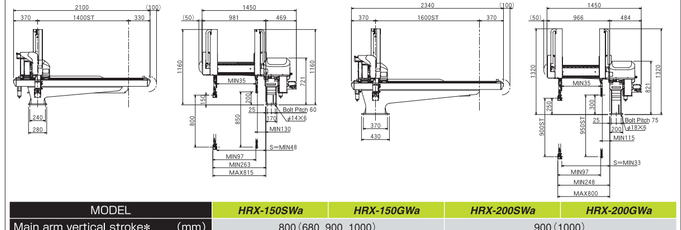


MODEL		HRX-150Sa	HRX-150Ga	HRX-200Sa	HRX-200Ga
Main arm vertical stroke*	(mm)	800 (680, 900, 1000)		900 (1000)	
Sub arm vertical stroke*	(mm)	—	850 (730, 950, 1050)	—	950 (1050)
Main arm kick stroke	(mm)	705 (1005)	584 (884)	705 (1005)	584 (884)
Sub arm kick stroke	(mm)	—	584 (884)	—	584 (884)
Traverse stroke*	(mm)	1400 (1600, 1800, 2000)		1600 (1800, 2000)	
Max. payload	(kg)	5 (including EOAT)			
Weight	(kg)	225	245	265	285
Working air pressure	(Mpa)	0.6			
Air consumption*	(Nℓ/cycle)	1.08	1.15	1.08	1.15
Drive system		Digital AC servo motor (3/5 axes)			
Control method		PTP・CP			
Power supply	(V)	3-phase 200VAC+10%／-15% (50Hz／60Hz)			
Installed capacity	(KVA)	2.5			
Power consumption	(W)	1700	2300	1700	2300

*Some combinations of extended strokes need larger models. *( ) = option *Additional 63Nℓ/min is needed when a vacuum ejector is used.

HRX-150SWa / HRX-150GWa — IMM size 100t~220t

HRX-200SWa / HRX-200GWa — IMM size 220t~350t



MODEL		HRX-150SWa	HRX-150GWa	HRX-200SWa	HRX-200GWa
Main arm vertical stroke*	(mm)	800 (680, 900, 1000)		900 (1000)	
Sub arm vertical stroke*	(mm)	—	850 (730, 950, 1050)	—	950 (1050)
Main arm kick stroke	(mm)	705 (1005)	552 (852)	705 (1005)	552 (852)
Sub arm kick stroke	(mm)	—	552 (852)	—	552 (852)
Traverse stroke*	(mm)	1400 (1600, 1800, 2000)		1600 (1800, 2000)	
Max. payload	(kg)	5 (including EOAT)			
Weight	(kg)	230	250	270	290
Working air pressure	(Mpa)	0.6			
Air consumption*	(Nℓ/cycle)	1.08	1.15	1.08	1.15
Drive system		Digital AC servo motor (3/5 axes)			
Control method		PTP・CP			
Power supply	(V)	3-phase 200VAC+10%／-15% (50Hz／60Hz)			
Installed capacity	(KVA)	2.5			
Power consumption	(W)	1700	2300	1700	2300

*Some combinations of extended strokes need larger models. *( ) = option *Additional 63Nℓ/min is needed when a vacuum ejector is used.