

HARMO

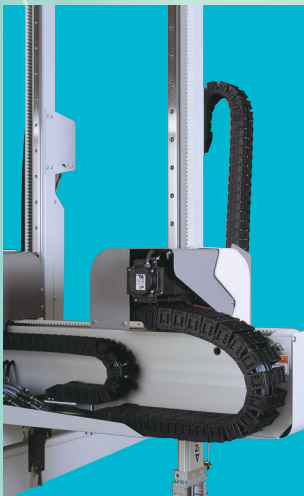
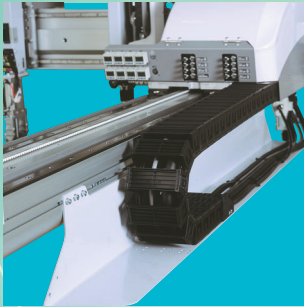
HRXII-**b** *Series*



With 8 vacuums op

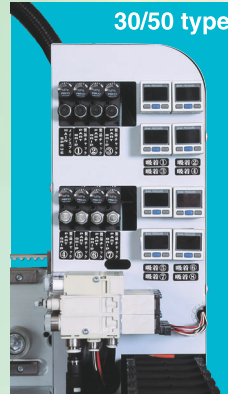
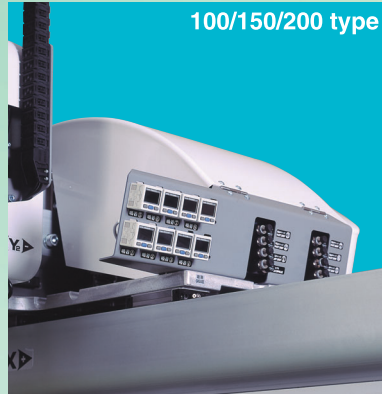
beautiful & bright &

Wide cable tracks



- Wide cable tracks are used for all axes. They make it easier to run cables and tubes for extra valves and special applications.

Up to 8 vacuums



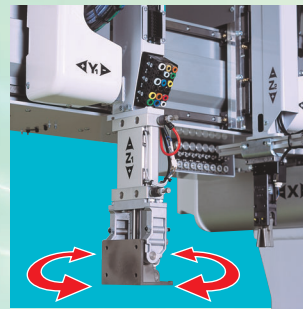
- More user-friendly vacuum pressure meters
- Eight vacuums and eight grips available for most applications
- A standard small regulator that adjusts grip force.

Frames



- A wider traverse frame provides more rigidity. As high as 40% more rigid overall in 150GW model.
- Lightweight stylish aluminum body. The traverse frame can slide according to your factory's layout.

Wrist unit



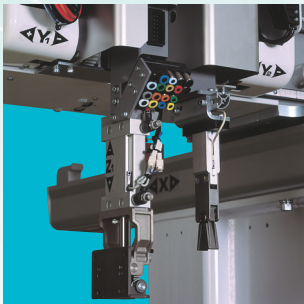
- Grip angle adjustor ($\pm 3^\circ$ around)



- Standard grease catching design for traverse and kick linear guides.

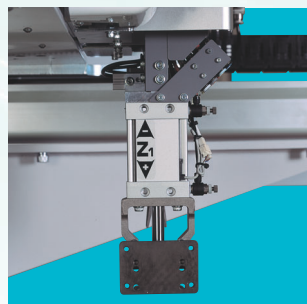


Colored caps



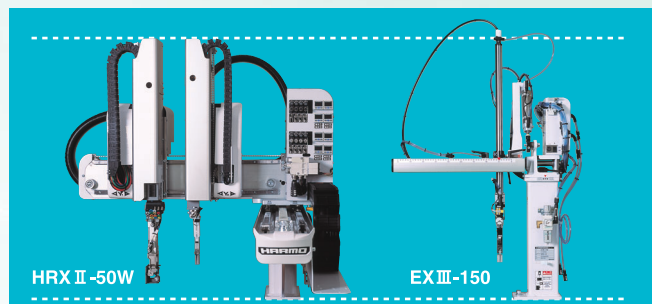
- Unified cabling and tubing layout for the attachment. Colored caps make it easier to change attachments.

Attachment



- A wide variety of attachments are available with more mount threads.

Smallest in the class



- 50GW model for 50t class presses is telescopic the first in the industry and the smallest in the class. Nozzle projection and overall height are smaller than our sprue picker EX III-150.

best **b** Series

Ergonomic design and light weight

8.4 XGA(1024x768) high definition LCD with 260,000 colors.

Colorful LED for high visibility



Three-position safety switch for easy operation and safety.



Scroll & Push Harmo original jog dial for speedy operation.

Membrane manual operation switches for good touch feeling.

Floor standing controller (30/50)



The photo shows 30/50 models. (On-the-machine for 100 or larger models, but floor type optionally available.)

Inner mold memories

- 1000 inner mold memories are automatically backed up in an SD card. When a USB flash memory is used, total 2000 molds can be saved.

Languages

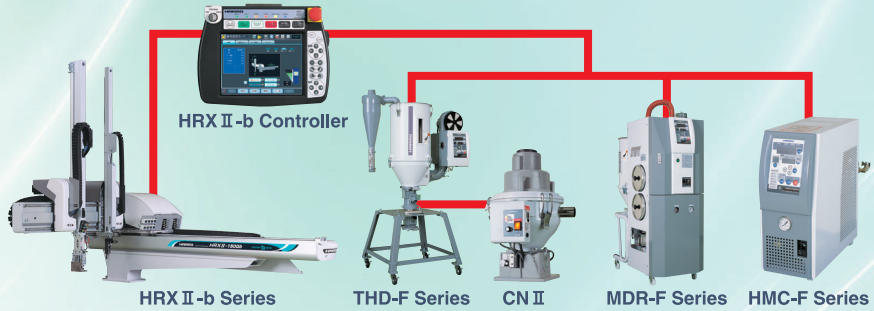
- Five languages are available standard (Japanese, English, Chinese, Korean, and Thai)
- European languages optionally available.



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

- Communication to Harmo's F series auxiliary equipment.
- You can operate auxiliary equipment on the touch panel of the robot.

Harmo only



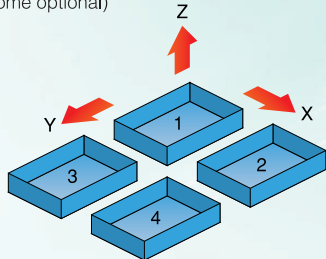
Vibration control ensures optimum servo motions

- In addition to automatic vibration control, acceleration and deceleration can be set at each point. Less vibration is ensured by EOAT weight control for excellent servo motions.



Different palletizing patterns

- Free palletize feature allows up to 256 points. Furthermore, change in the reference point and axial priority provide a wide variety of palletizing. (Some optional)



Operation log

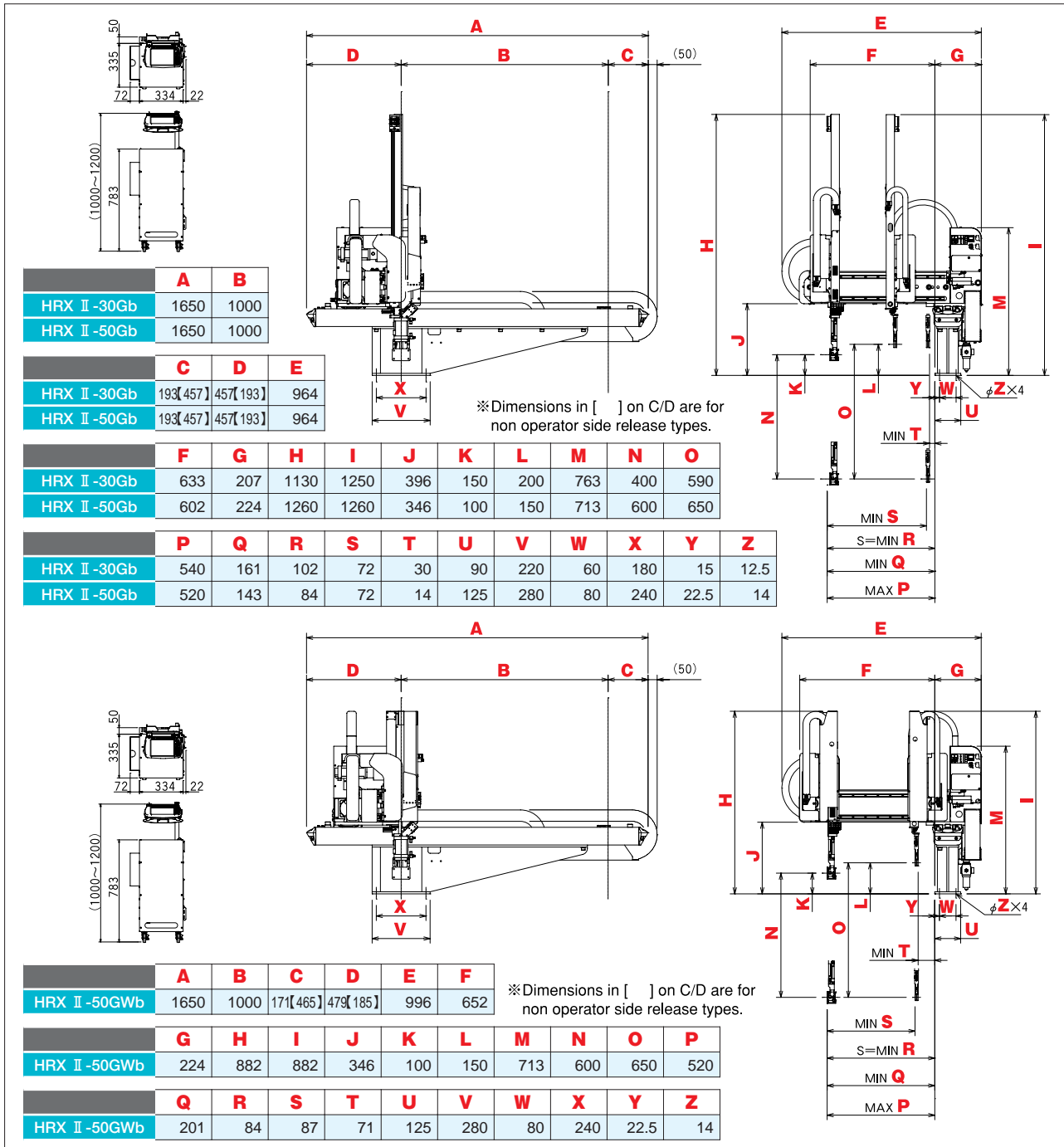
- Up to 150 operations can be logged. This help you identify the causes of troubles because you can find out how you operated on which screen.



Standard specification

- Part grip circuit
- Vacuum circuit
- Main sprue grip
- Fine adjust in auto
- Mold memory (1000 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
- Takeout from fixed mold
- Equal pitch palletize
- Diff. pitch palletize
- Multi-row place (4P)
- H.P. hor. above mold
- H.P. backward
- Remote vacuum adjustment
- Vacuum values on the pendant
- 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
- 3 undercut points
- Fine point adjustment in auto.

Dimensions (mm)

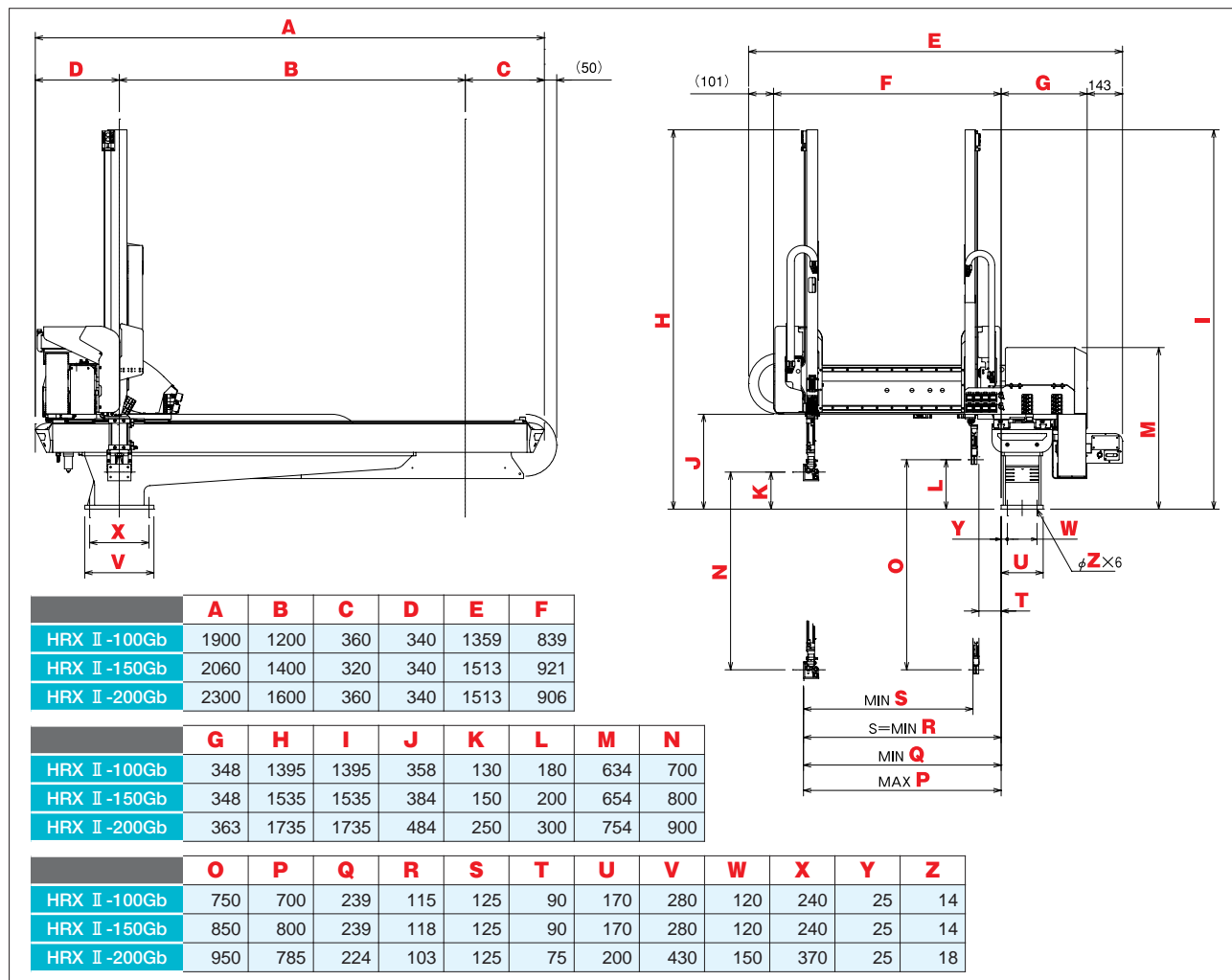


Specifications

MODEL	HRX II -30Sb	HRX II -30Gb	HRX II -50Sb	HRX II -50Gb	HRX II -50SWb	HRX II -50GWb
IMM size (ton)	15 ~ 40		40 ~ 70		40 ~ 70	
Main arm stroke (mm)	400 [500]		600 [700]		600 [700]	
Sub arm stroke (mm)	-	590 [650]	-	650 [750]	-	650 [750]
Main kick stroke (mm)	438 (102 ~ 540)	379 (161 ~ 540)	436 (84 ~ 520)	377 (143 ~ 520)	436 (84 ~ 520)	319 (201 ~ 520)
Sub kick stroke (mm)	-	377 (43 ~ 420)	-	374 (26 ~ 400)	-	319 (81 ~ 400)
Traverse stroke (mm)	1000 [1200] [1400]		1000 [1200] [1400]		1000 [1200] [1400]	
Grip height (mm)	150		100			
Max. main arm reach (mm)	540		520			
Min. sub arm reach (mm)	-	72	-	87	-	87
Wrist unit (°)	90					
Max. payload (kg)	3 (including EOAT)					
Weight (kg)	102	119	103	120	103	120
Overall HxWxD (mm)	1249 x 1650 x 964		1260 x 1650 x 964		882 x 1650 x 964	
Working air pressure (MPa)	0.5					
Air consumption 1 (#/cyd[ANR])	0.62	0.64	0.62	0.64	0.62	0.64
Control method	Digital AC servo motor(3/5 axes)					
Power supply (V)	3-phase AC200V ± 10% (50Hz/60Hz)					
Power consumption (W)	1350	1950	1350	1950	1350	1950

1 When vacuum ejectors are used, another 46 ℓ /min [ANR] is consumed for each. [] =Option

Dimensions (mm)

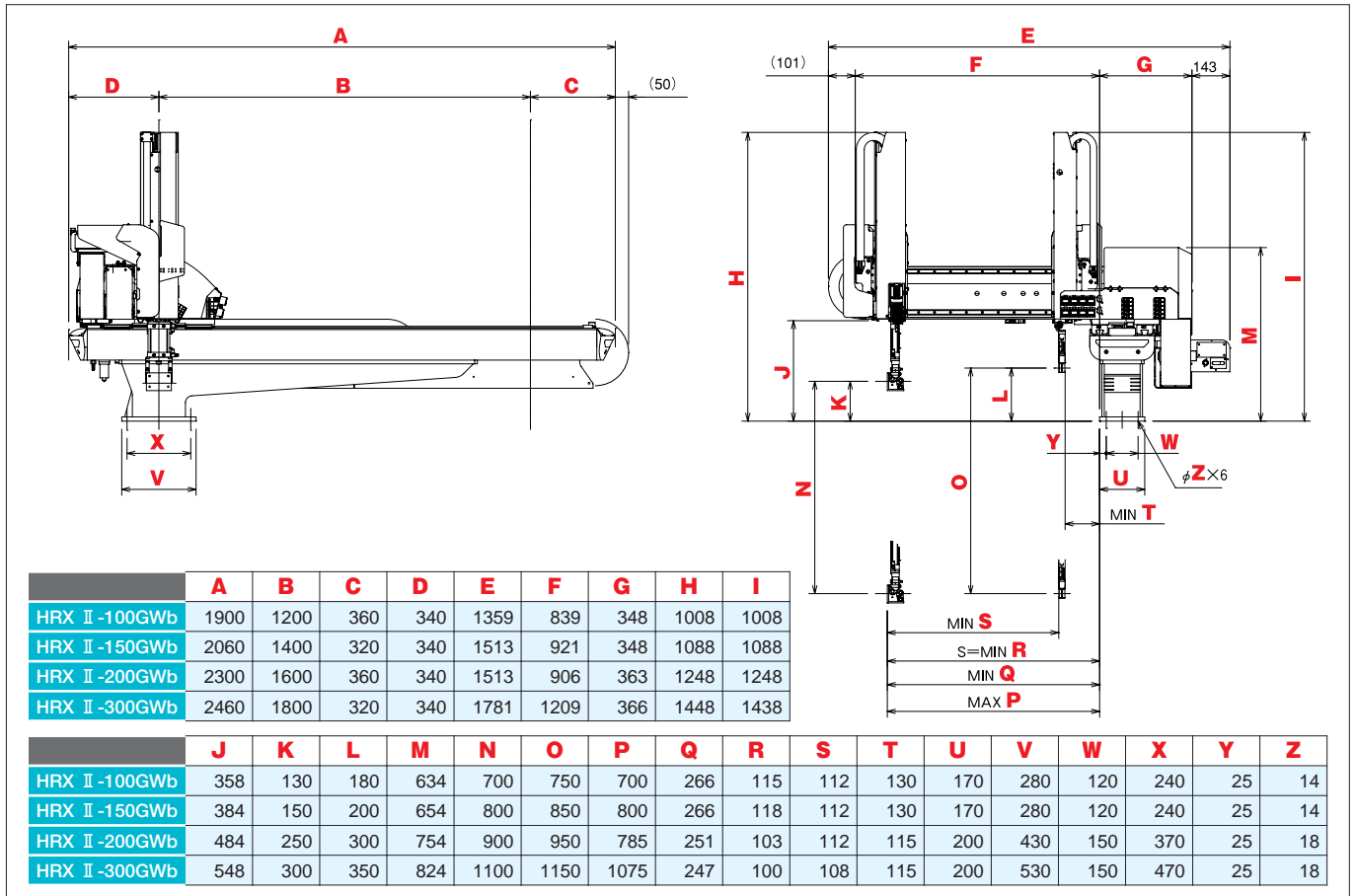


Specifications

MODEL	HRX II -100Sb	HRX I -100Gb	HRX II -150Sb	HRX I -150Gb	HRX II -200Sb	HRX I -200Gb
IMM size (ton)	75 ~ 120		120 ~ 220		150 ~ 350	
Main arm stroke (mm)	700 【800】 【900】		800 【900】 【1000】		900 【1000】	
Sub arm stroke (mm)	-	750 【850】 【950】	-	850 【950】 【1050】	-	950 【1050】
Main kick stroke (mm)	585 (115 ~ 700)	461 (239 ~ 700)	682 (118 ~ 800)	561 (239 ~ 800)	682 (103 ~ 785)	561 (224 ~ 785)
Sub kick stroke (mm)	-	461 (90 ~ 551)	-	561 (90 ~ 651)	-	561 (75 ~ 636)
Traverse stroke (mm)	1200 【1400】 【1600】		1400 【1600】 【1800】 【2000】		1600 【1800】 【2000】	
Grip height (mm)	130		150		250	
Max. main arm reach (mm)	700		800		785	
Min. sub arm reach (mm)	-	90	-	90	-	75
Wrist unit (°)	90					
Max. payload (kg)	5 (including EOAT)					
Weight (kg)	210	228	239	257	299	313
Overall HxWxD (mm)	1395 x 1900 x 1359		1535 x 2060 x 1513		1735 x 2300 x 1513	
Working air pressure (MPa)	0.5					
Air consumption 1 (ℓ/cycle[ANR])	1.07	1.09	1.07	1.09	1.07	1.09
Control method	Digital AC servo motor(3/5 axes)					
Power supply (V)	3-phase AC200V ± 10% (50Hz/60Hz)					
Power consumption (W)	1700	2300	1700	2300	1700	2300

1 When vacuum ejectors are used, another 46 ℓ /min [ANR] is consumed for each. 【 】 =Option

Dimensions (mm)



Specifications

MODEL	HRX II-100SWb	HRX II-100GWb	HRX II-150SWb	HRX II-150GWb	HRX II-200SWb	HRX II-200GWb	HRX II-300SWb	HRX II-300GWb
IMM size (ton)	75 ~ 120		120 ~ 220		150 ~ 350		260 ~ 450	
Main arm stroke (mm)	700 【800】 【900】		800 【900】 【1000】		900 【1000】		1100 【1200】 【1400】	
Sub arm stroke (mm)	-	750 【850】 【950】	-	850 【950】 【1050】	-	950 【1050】	-	1150 【1250】 【1450】
Main kick stroke (mm)	585 (115 ~ 700)	434 (266 ~ 700)	682 (118 ~ 800)	534 (266 ~ 800)	682 (103 ~ 785)	534 (251 ~ 785)	975 (100 ~ 1075)	828 (247 ~ 1075)
Sub kick stroke (mm)	-	434 (130 ~ 564)	-	534 (130 ~ 664)	-	534 (115 ~ 649)	-	828 (115 ~ 943)
Traverse stroke (mm)	1200 【1400】 【1600】		1400 【1600】 【1800】 【2000】		1600 【1800】 【2000】		1800 【2000】	
Grip height (mm)	130		150		250		300	
Max. main arm reach (mm)	700		800		785		1075	
Min. sub arm reach (mm)	-	130	-	130	-	115	-	115
Wrist unit (°)	90							
Max. payload (kg)	5 (including EOAT)						10 (including EOAT)	
Weight (kg)	211	231	243	264	303	325	332	355
Overall HxWxD (mm)	1008 x 1900 x 1359		1088 x 2060 x 1513		1248 x 2300 x 1513		1488 x 2460 x 1781	
Working air pressure (MPa)	0.5							
Air consumption 1 (ℓ/100[ANR])	1.07	1.09	1.07	1.09	1.07	1.09	1.67	1.69
Control method	Digital AC servo motor(3/5 axes)							
Power supply (V)	3-phase AC200V ± 10% (50Hz/60Hz)							
Power consumption (W)	1700	2300	1700	2300	1700	2300	1700	2300

1 When vacuum ejectors are used, another 46 ℓ /min [ANR] is consumed for each. 【 】 =Option

* This brochure is subject to change without notice.

Manufacturer:

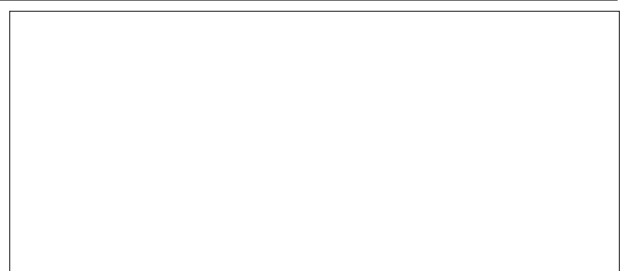
HARMO CO., LTD.

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>



HRX2-b_01AE 12021KP



This catalogue uses 100% recycled paper.