WOOJIN PLAIMM
VH SERIES CATALOGUE

THE NEW TECHNOLOGY

Reborn VH series with new design and globalized line ups,

We hereby present this perfectly
harmonized premium series to you.

VH-RG5 - Low-floor vertical power saving hydraulic injection molding machine

VH50RG5 VH100RG5 VH150RG5 VH200RG5

VHA-RS - Vertical power saving hydraulic injection molding machine

VHA50RS VHA75RS VHA100RS VHA120RS VHA150RS VHA200RS

VHL-RS - Low-floor vertical power saving hydraulic injection molding machine

VHL250RS VHL350RS VHL450RS

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VH-RG5

Low-floor vertical power saving hydraulic injection molding machine

The low-floor vertical power saving hydraulic injection molding machine VH-RG5 is a Woojin Plaimm's recommended solution to users, who are seeking the answers for quality product and productivity.

New Design

01. Torque Hinge

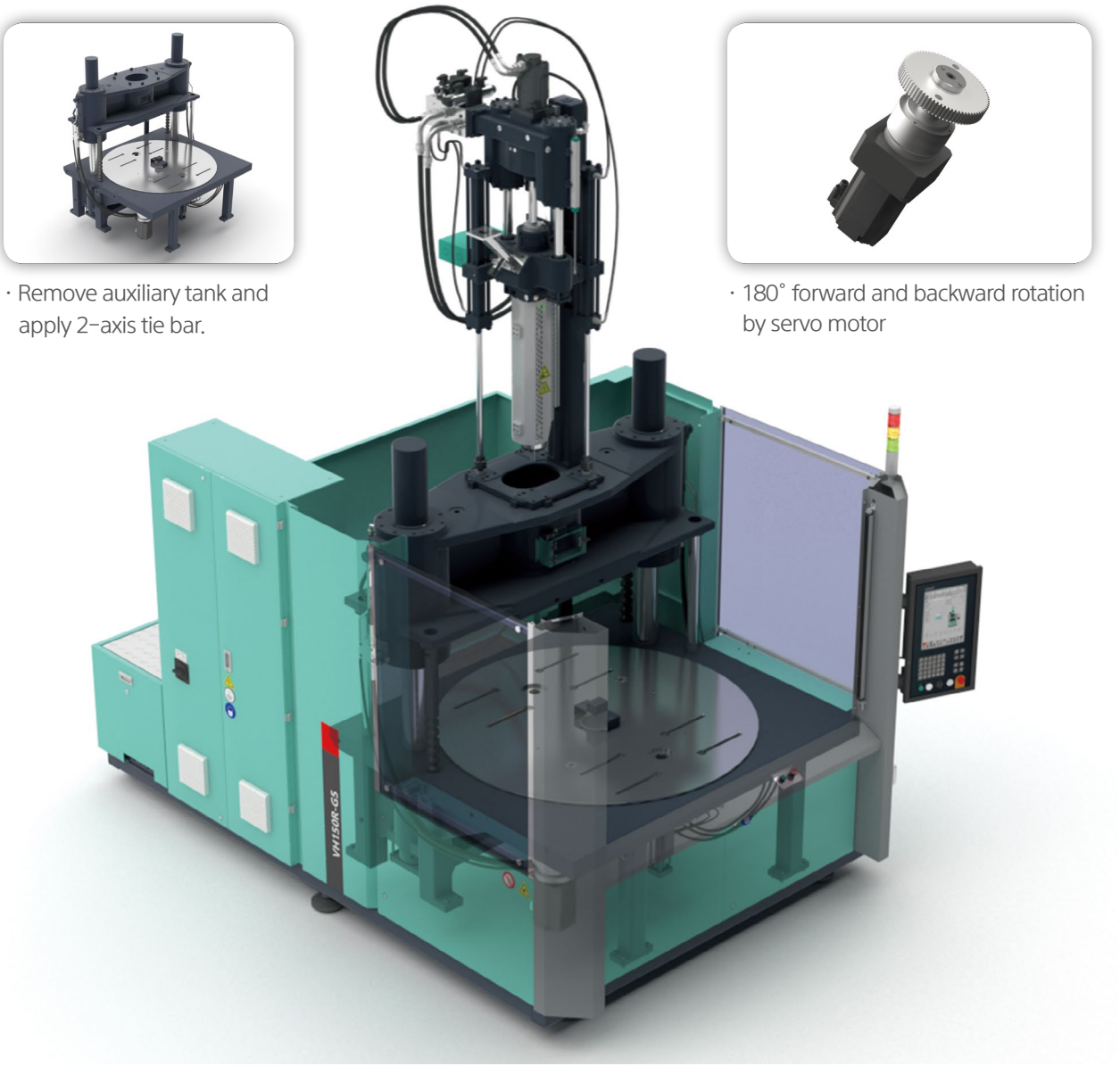
· Apply Torque Hinge for easily adjustable angle and secure broad visual range.

02. Double coated surface

Double coated surface is very strong against scratches and other contaminants and makes it easy to manage

· Remove auxiliary tank and apply 2-axis tie bar.

· 180° forward and backward rotation by servo motor



Clamping Unit

01. Rotation by servo motor

· Precise control by deciding accelerating or decelerating point through digital purse control of servo drive.

02. Low floor structure

· Fixed turntable height from the floor regardless of tonnage
· Easy attachment and detachment of mold
· Easy to apply automation facilities

03. Energy saving

· Energy saving by using the weight of the upper platen and the mold.
· Optimization of self mold closing structure by applying a two-axis tie bar

04. Easy to manage hydraulic oil

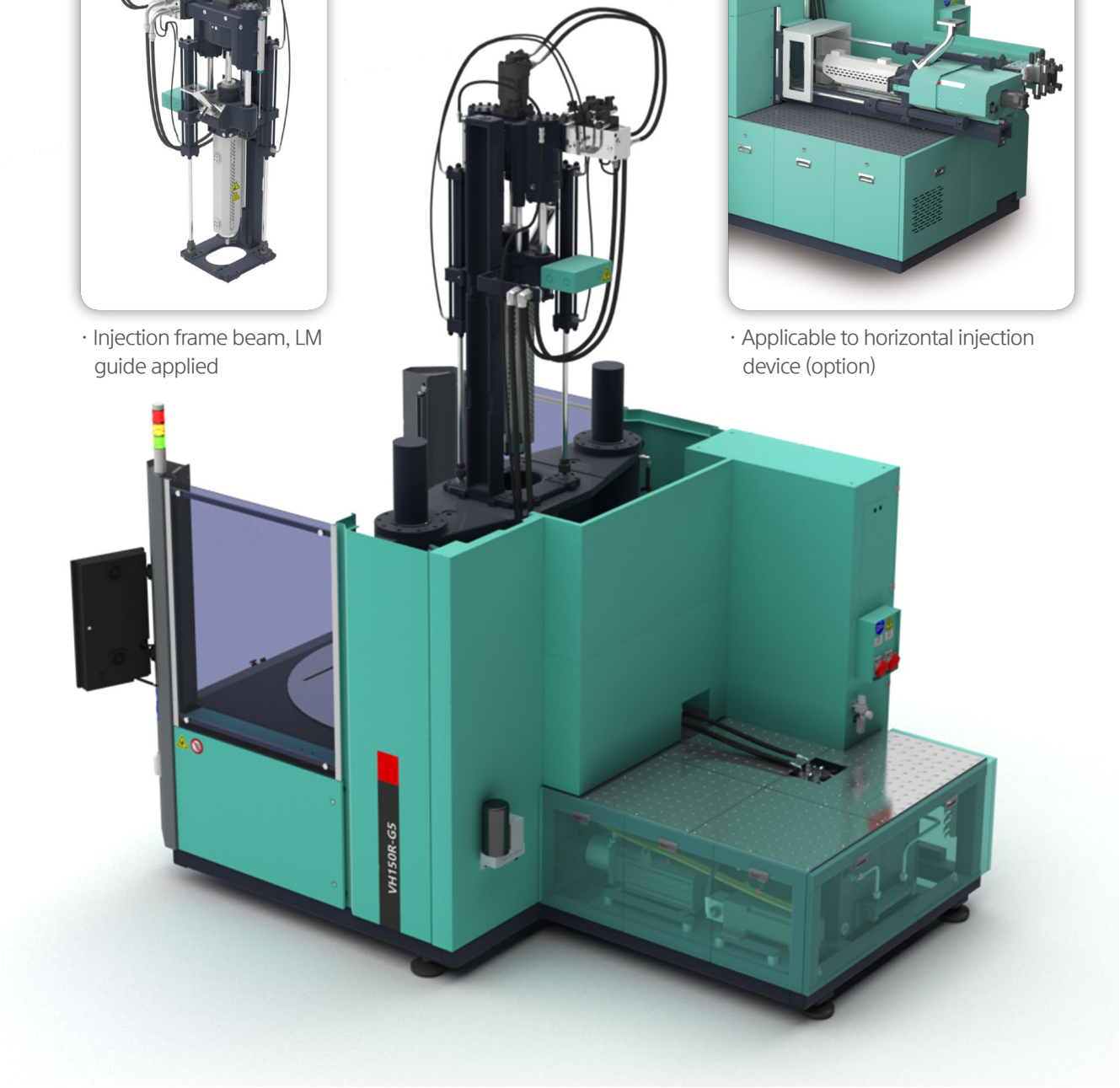
· Unlike universal low-floor type, hydraulic oil management is simple because auxiliary tanks are not required.

05. optimized working environment

· No need for a separate foot step

· Injection frame beam, LM guide applied

· Applicable to horizontal injection device (option)



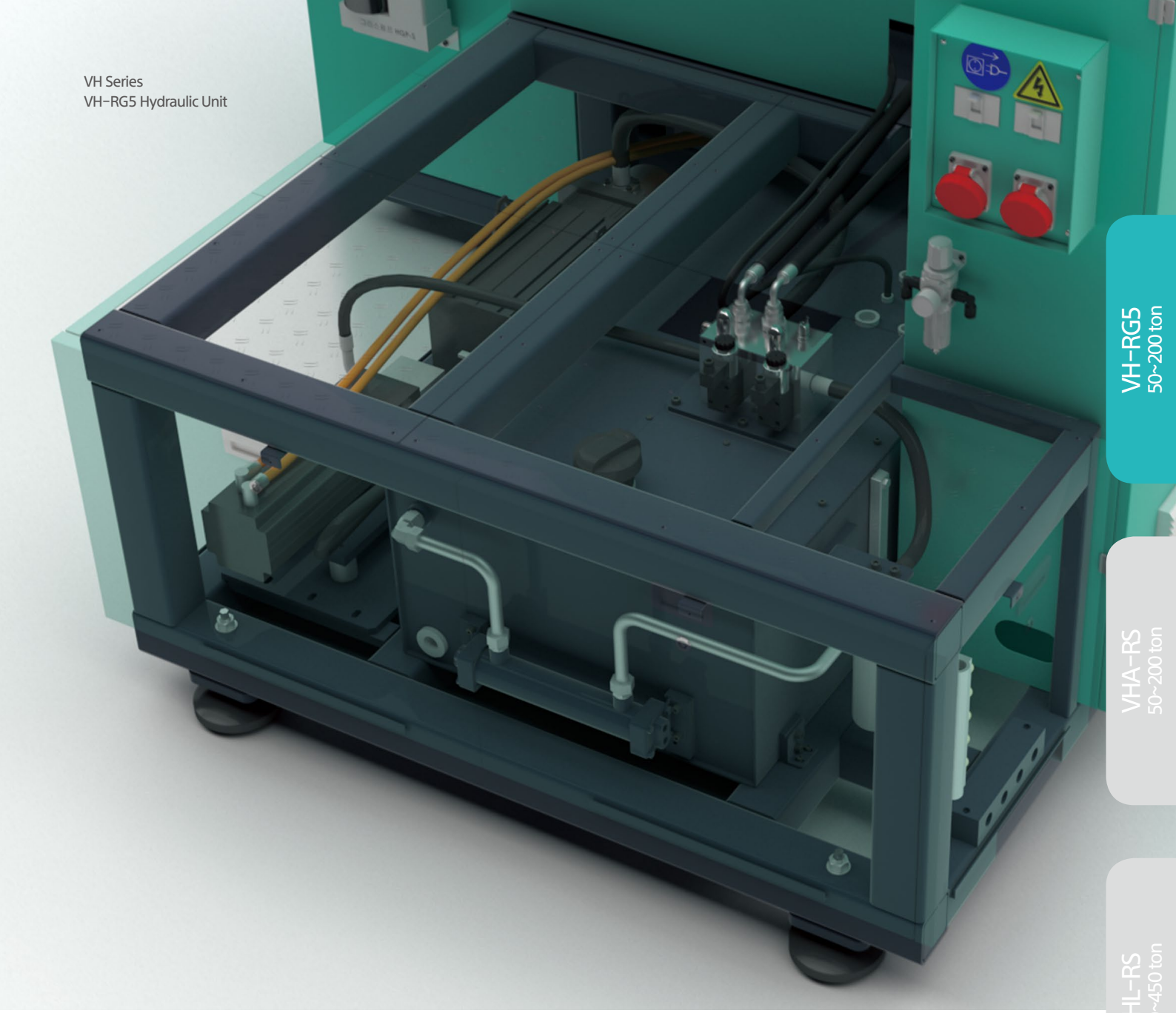
Injection Unit

01. 2 axis injection cylinder / Independent suck back structure

· Improving responsiveness and control capability by independent injection and suck back structure.
· Optimized design for balance and stability of the machine with symmetric structure
· LM guide applied on injection frame beam to maintain parallel alignment.
· Improving vibration during injection, nozzle and charging movement by applying injection frame beam

02. Horizontal injection device applicable

· Horizontal injection unit can be applicable (option)
· Automatic height adjustment function of horizontal injection device (check the height value through the monitor)



VH Series
VH-RG5 Hydraulic Unit

Hydraulic Unit

01. Save energy and hydraulic oil consumption

· Reduce energy and hydraulic oil consumption by applying high-efficiency servo pump system

02. Improved internal cleanliness and strong corrosion resistance

· Special coating inside and outside the hydraulic block for improved internal cleanliness and strong corrosion resistance.

03. Ejector hydraulic circuit and hydraulic oil cooling

· Hydraulic circuit configuration for simultaneous operation of ejector during mold closing, nozzle forward movement, and injection
· Independent oil circulation method except ejector operation keeps cleanliness and constant temperature (extending hydraulic oil lifespan and improving durability of hydraulic components)

04. Special painting treatment in oil tank

· Prevention of rust caused by moisture
· Keep hydraulic oil clean
· Extend hydraulic oil lifespan

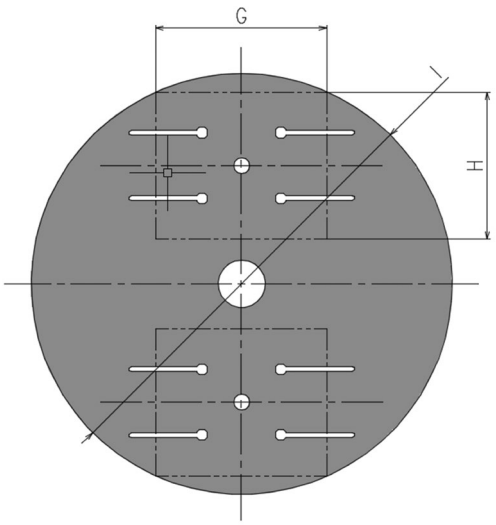
Specification

01. Theoretical injection volume: cross section of screw*screw stroke.
02. Minimum mold height should be more than 60% of tie-bar distance.
03. The specifications might be changed without any prior notice.
04. The metering distance is recommended in the range of 1 to 3 times of screw diameter.

		VH50RG5			VH100RG5			VH150RG5			VH200RG5		
		IHV160			IHV230			IHV490			IHV860		
Injection Unit													
Screw&barrel type		O	A	B	O	A	B	O	A	B	O	A	B
Screw diameter	mm	22	25	28	28	32	36	36	40	45	45	50	55
Injection pressure	kg/㎠	2419	1928	1476	2409	1844	1457	2400	1944	1536	2405	1948	1610
	Mpa	237	189	145	236	181	143	235	191	151	236	191	158
Theoretical injection volume	㎤	69	86	113	99	129	163	204	251	318	358	442	535
Shot weight(PS)	g	64	79	104	91	119	150	188	231	293	330	407	493
Injection rate	㎤/s	74	93	121	70	92	116	119	147	186	216	267	323
Screw stroke	mm	140	140	140	160	160	160	200	200	200	225	225	225
Injection speed	mm/s	150	150	150	114	114	114	117	117	117	135	135	135
Plasticizing capacity (PS)	kg/h	26	36	51	36	52	70	63	84	115	115	152	196
Screw rotation speed	rpm	300	300	300	300	300	300	270	270	270	270	270	270
Clamping Unit													
Clamping force	ton(kN)	50(490)			100(981)			150(1471)			200(1961)		
Opening stroke	mm	300			350			350			400		
Rotary Table Size	Φ	900			1200			1600			1600		
Daylight	mm	500			600			650			750		
Min. mold height	mm	200			250			300			350		
Ejector force	ton(kN)	2.7(26)			4.3(42)			4.3(42)			5.4(53)		
Ejector stroke	mm	60			80			80			100		
General													
Total heater capacity	kW	6.1	6.1	6.1	6.7	6.7	6.7	10.1	10.1	10.1	16.2	16.2	16.2
Motor capacity	kW	23	23	23	23	23	23	27.8	27.8	27.8	47.8	47.8	47.8
Total electric power capacity	kW	29.1	29.1	29.1	29.7	29.7	29.7	37.9	37.9	37.9	64	64	64
Hydraulic oil tank capacity	l	190			270			330			400		
Machine weight	ton	3.9			6			8.9			10.2		
Machine dimension (L × W × H)	m	3.0*1.9*3.2			3.5*2.0*3.6			3.8*2.7*4.2			4.0*2.7*4.8		
Cooling water requirement	l/min	20			40			40			40		

Platen Dimension

* The images and specifications might be changed without any prior notice.

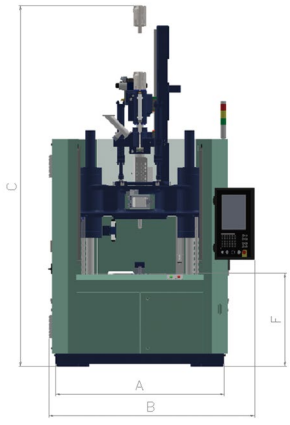


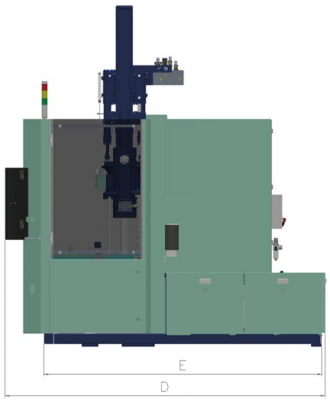
Unit: mm

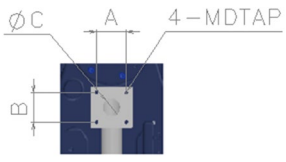
	G	H	I
VH50RG5	400	300	900
VH100RG5	470	350	1200
VH150RG5	650	560	1600
VH200RG5	650	560	1600

* The images and specifications might be changed without any prior notice.

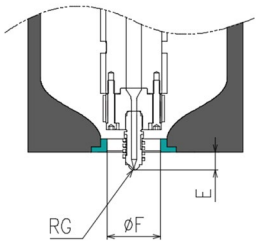
Machine Dimension







▲ Hopper installation position dimension



▲ Nozzle dimension

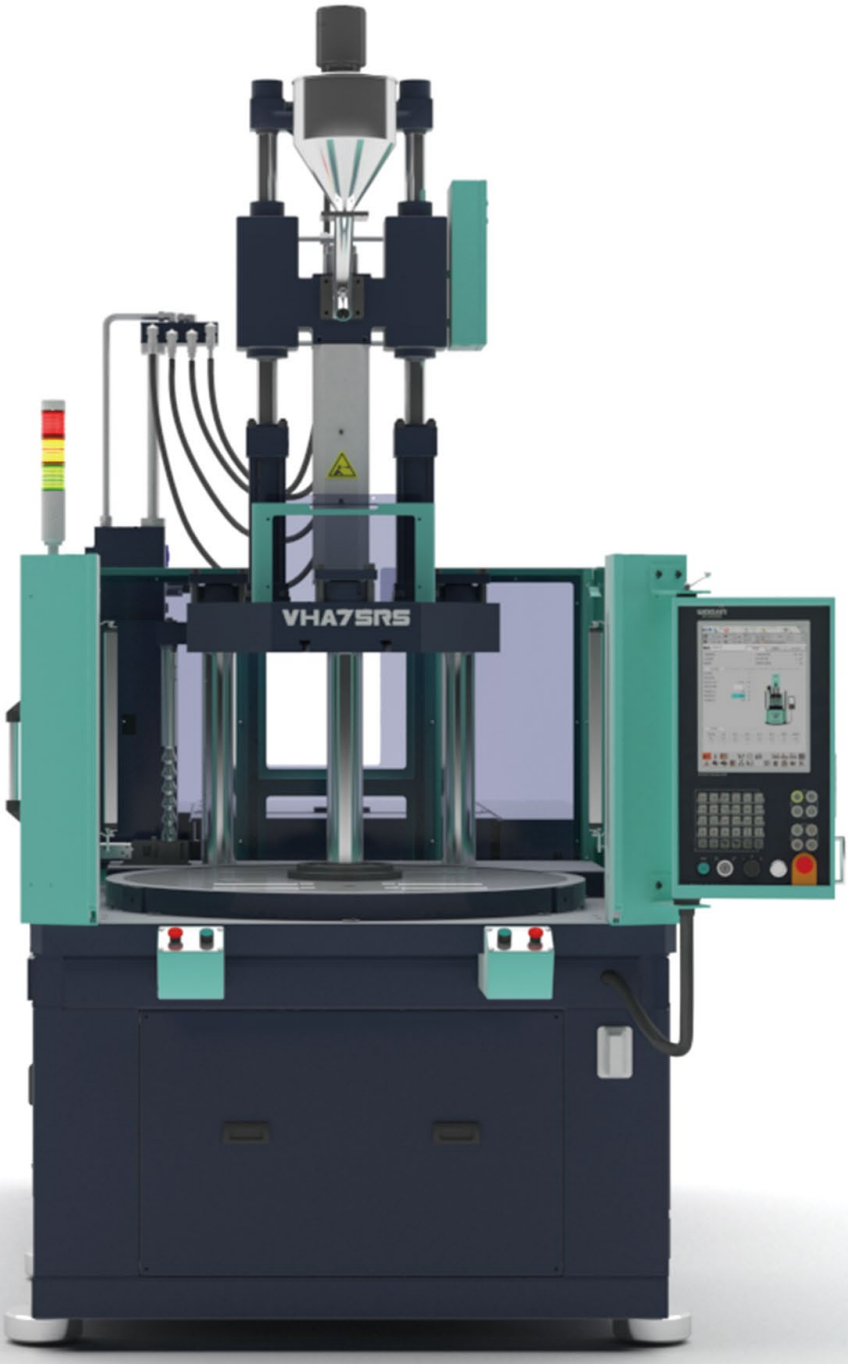
Unit: mm

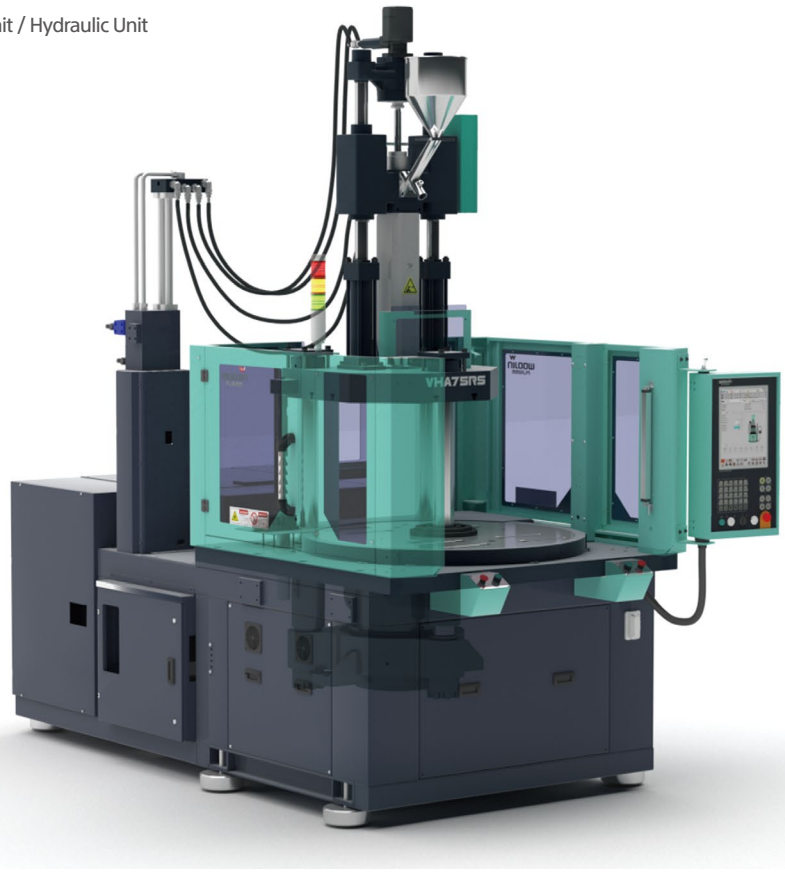
	Robot installation position dimension						Hopper installation position dimension				Nozzle dimension		
	A	B	C	D	E	F	A	B	ØC	D	E	ØF	G
VH50RG5	1580	1924	3374	2999	2600	872	85	85	40	12	30	100	9
VH100RG5	1870	2227	3616	3424	3000	872	85	85	40	12	30	100	9
VH150RG5	2300	2663	4162	3798	3400	872	85	85	40	12	30	100	9
VH200RG5	2300	2663	4861	3999	3600	872	85	85	50	12	40	100	R14

VHA-RS

Harmonization of technology and flexibility

Vertical power saving hydraulic injection molding machine VH Series is a Woojin Plaimm's recommended solution to users, who are seeking the answers for quality products and productivity.





Clamping Unit

01. Direct pressure clamping device

- Clamping force generates by center direct pressure boosting ram cylinder
- Accurate clamping force setting by clamping pressure setting
- Step seal and check valve applied to maintain clamping pressure

02. Turntable device

- Accurate clamping force setting by clamping pressure setting
- Precise control by deciding accelerating or decelerating point through digital purse control of servo drive
- High precision rotating control by electric servo motor
- Accurate positioning control by positioning decision control method regardless of load
- Easy for speed setting and high speed rotation

Injection Unit

01. Application of various injection units

- A wide range of injection units is applicable according to the characteristics of the molded product
- Universal double injection cylinder structure
- Simple structure and easy maintenance
- Low height injection unit
- Applicable to most of molded products except for products requiring very quick responsiveness

02. Vertical In-Line Screw

03. Injection, multi-stage holding pressure control and remote back pressure control

Hydraulic Unit

01. Ejector hydraulic circuit hydraulic oil cooling

- Compose a hydraulic circuit to enable multi-stage control of ejector speed and pressure (standard: 2 stages)
- Simultaneous motion such as ejecting on the fly
- When the ejector does not operate, the ejector pump circulates the hydraulic oil to cool and filter the hydraulic oil.

Specification

01. Theoretical injection volume: cross section of screw*screw stroke.
02. Minimum mold height should be more than 60% of tie-bar distance.
03. The specifications might be changed without any prior notice.
04. The metering distance is recommended in the range of 1 to 3 times of screw diameter.

		VHA50RS			VHA75RS			VHA100RS			VHA120RS			VHA150RS			VHA200RS		
		IH 140V			IH 200V			IH 280V			IH 390V			IH 470V			IH 740V		
Injection Unit																			
Screw&barrel type	type	O	A	B	O	A	B	O	A	B	O	A	B	O	A	B	O	A	B
Screw diameter	mm	22	25	28	25	28	32	28	32	36	32	36	40	36	40	45	40	45	50
Injection pressure	kg/㎠	3487	2700	2152	2923	2330	1784	2847	2180	1722	2631	2079	1684	2316	1876	1482	2695	2129	1725
	Mpa	342	265	211	287	228	175	279	214	169	258	204	165	227	184	145	264	209	169
Theoretical injection volume	㎤	46	59	74	69	86	113	99	129	163	145	183	226	204	251	318	276	349	432
Shot weight(PS)	g	42	54	68	63	78	102	90	117	148	132	167	206	185	229	289	254	322	398
Injection rate	㎤/s	49	64	80	59	74	97	97	127	161	106	134	166	151	186	235	163	207	255
Screw stroke	mm	120	120	120	140	140	140	160	160	160	180	180	180	200	200	200	220	220	220
Injection speed	mm/s	130	130	130	120	120	120	158	158	158	132	132	132	148	148	148	130	130	130
Plasticizing capacity(PS)	kg/h	13	16	13	16	23	31	23	31	52	29	48	59	48	59	77	42	58	77
Screw rotation speed	rpm	220	220	220	220	220	220	220	220	220	200	200	200	200	200	200	180	180	180
Clamping Unit																			
Clamping force	ton(kN)	50(490)			75(735)			100(981)			120(1177)			150(1471)			200(1961)		
Opening stroke	mm	250			250			250			300			300			300		
Rotary Table Size	Φ	880			1000			1100			1240			1350			1500		
Daylight	mm	450			450			500			600			650			650		
Min. mold height	mm	200			200			250			300			350			350		
Ejector force	ton(kN)	2.7(26)			2.7(26)			4.3(42)			4.3(42)			4.3(42)			5.4(53)		
Ejector stroke	mm	60			60			80			80			80			100		
General																			
Total heater capacity	kW	5.2	5.2	5.2	6.1	6.1	6.1	6.7	6.7	6.7	8.1	8.1	8.1	10.1	10.1	10.3	12.6	12.6	12.6
Motor capacity	kW	13.9	13.9	13.9	13.9	13.9	13.9	19.5	19.5	19.5	19.5	19.5	19.5	25.8	25.8	25.8	27.5	27.5	27.5
Total electric power capacity	kW	19.1	19.1	19.1	20.0	20.0	20.0	26.2	26.2	26.2	27.6	27.6	27.6	35.9	35.9	35.9	40.1	40.1	40.1
Hydraulic oil tank capacity	l	180			180			250			300			390			450		
Machine weight	ton	3.5			4.2			5.5			7.3			8.5			12.3		
Machine dimension (L × W × H)	m	2.7*1.6*2.9			2.9*1.8*3.0			3.3*1.9*3.4			3.3*2.0*3.8			3.6*2.1*4.1			3.8*2.3*4.5		
Cooling water requirement	l/min	20			20			40			40			40			40		

Platen Dimension

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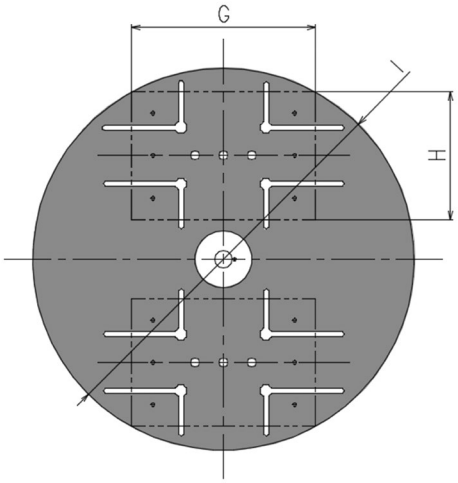

Unit: mm

	G	H	I
VHA50RS	350	250	880
VHA75RS	450	300	1000
VHA100RS	450	350	1100
VHA120RS	600	400	1240
VHA150RS	650	450	1350
VHA200RS	750	500	1500

Machine Dimension

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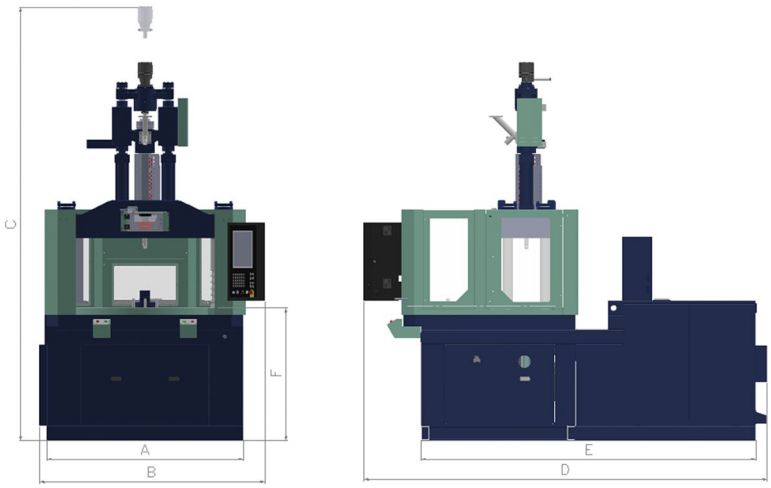


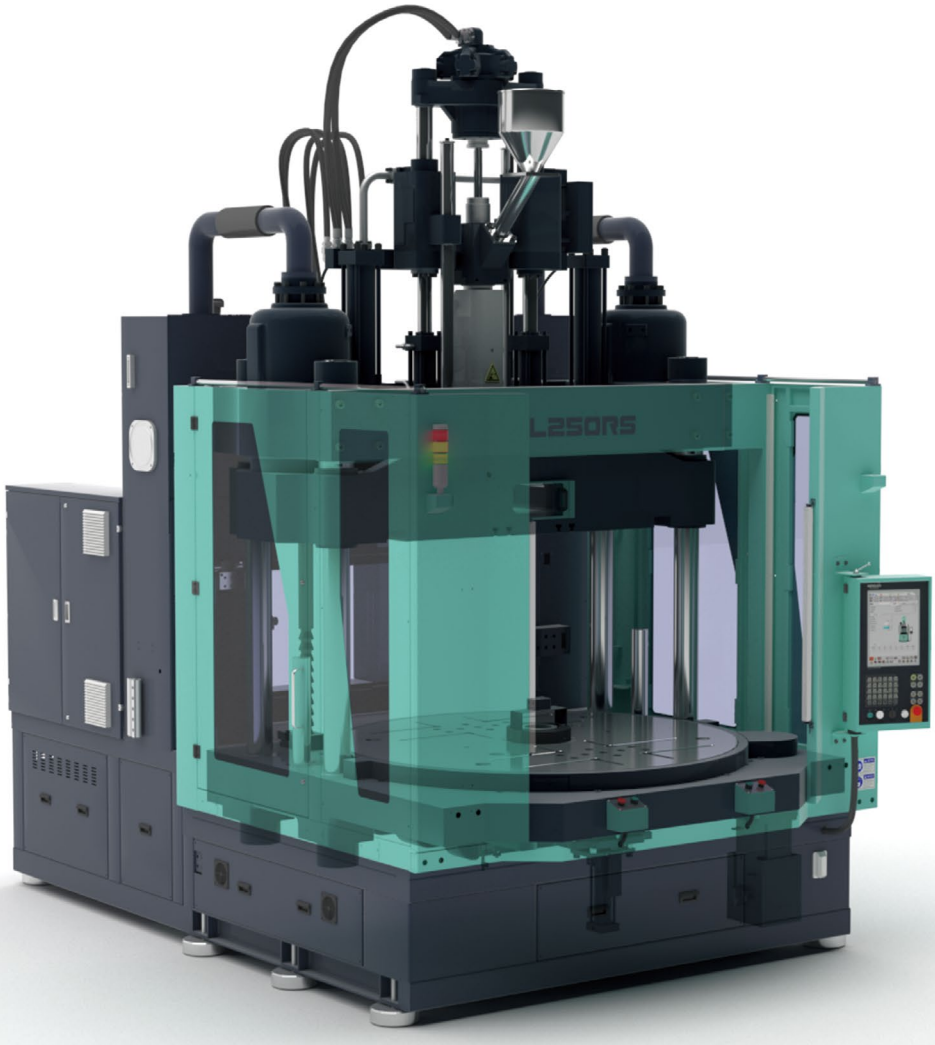
Unit: mm

	A	B	C	D	E	F
VHA50RS	1200	1574	2858	2650	2280	890
VHA75RS	1340	1738	3005	2895	2500	910
VHA100RS	1500	1823	3305	3210	2800	1010
VHA120RS	1700	1932	3767	3290	2900	1150
VHA150RS	1900	2075	4063	3523	3100	1170
VHA200RS	2050	2227	4459	3723	3300	1220

VHL-RS

Low floor vertical Insert Injection Molding Machine

The vertical insert injection molding machine VHL-RS is a low-floor vertical power saving hydraulic injection molding machine that lowers the table height.



Clamping Unit

01. Center press direct pressure clamping device

- Center press direct pressure method to uniformly apply the surface pressure inside the mold
- Allows users to set exact clamping force

02. Turntable precision control device

- Precise control by deciding accelerating or decelerating point through digital purse control of servo drive
- 180° forward and backward method by servo motor

Injection Unit

01. Dual injection cylinder

- Optimized design for balance and stability with symmetrical structure
- Minimize vibration influence and secure molding stability

02. PID temperature control, synchronous temperature rise control

- Minimize temperature deviation by continuously controlling the temperature value set by the user
- When barrel temperature rises, all the section of barrel is controlled simultaneously in order to preventresin carbonization and defects.

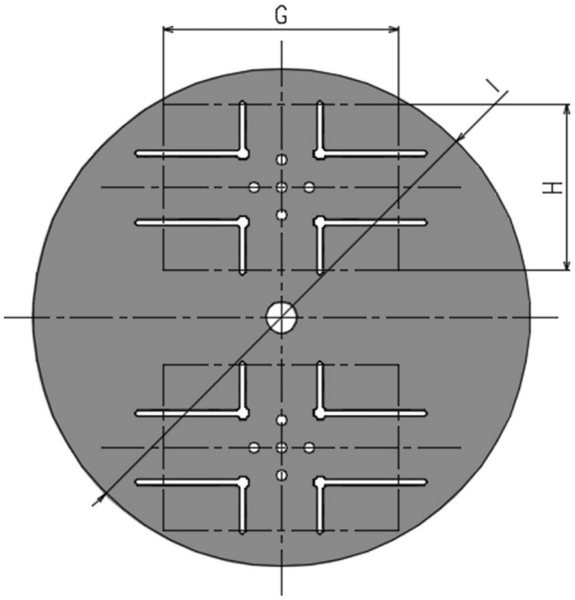
Specification

01. Theoretical injection volume: cross section of screw*screw stroke.
02. Minimum mold height should be more than 60% of tie-bar distance.
03. The specifications might be changed without any prior notice.
04. The metering distance is recommended in the range of 1 to 3 times of screw diameter.

		VHL250RS			VHL350RS			VHL450RS		
		IH 740V			IH 1090V			IH 1330V		
Injection Unit										
Screw&barrel type		O	A	B	O	A	B	O	A	B
Screw diameter	mm	40	45	50	50	55	60	55	60	65
Injection pressure	kg/㎠	2695	2129	1724	2332	1928	1620	2166	1820	1551
	Mpa	264	208	169	228	189	158	212	178	152
Theoretical injection volume	㎤	276	350	432	471	570	678	618	735	863
Shot weight(PS)	g	254	322	397	434	525	625	568	676	794
Injection rate	㎤/s	163	207	255	240	291	346	323	384	451
Screw stroke	mm	220	220	220	240	240	240	260	260	260
Injection speed	mm/s	130	130	130	122	122	122	136	136	136
Plasticizing capacity(PS)	kg/h	42	58	77	103	131	168	130	164	203
Screw rotation speed	rpm	180	180	180	180	180	180	180	180	180
Clamping Unit										
Clamping force	ton(kN)	250(2450)			350(3500)			450(4500)		
Opening stroke	mm	500			550			650		
Rotary Table Size	Φ	1800			1900			2200		
Daylight	mm	900			1000			1200		
Min. mold height	mm	400			450			550		
Ejector force	ton(kN)	5.4(52)			7.0(68)			11.0(107)		
Ejector stroke	mm	100			120			150		
General										
Total heater capacity	kw	12.6	12.6	12.6	16.2	16.2	16.2	20	20	20
Motor capacity	kw	27.5	27.5	27.5	37.3	37.3	37.3	50.2	50.2	50.2
Total electric power capacity	kw	40.1	40.1	40.1	53.5	53.5	53.5	70.2	70.2	70.2
Hydraulic oil tank capacity	L	380(main)+140(sub)+140(sub)			550(main)+190(sub)+190(sub)			660(main)+290(sub)+290(sub)		
Machine weight	ton	21			25			35		
Machine dimension (L × W × H)	m	4.2*2.7*4.5			4.2*2.9*5			4.6*3.3*5.7		
Cooling water requirement	L/min	40			40			40		

Platen Dimension

* The images and specifications might be changed without any prior notice.
* The minimum mold size is 70% of the maximum mold size, and please contact Woojin Plaimm when installing/using molds below that size.

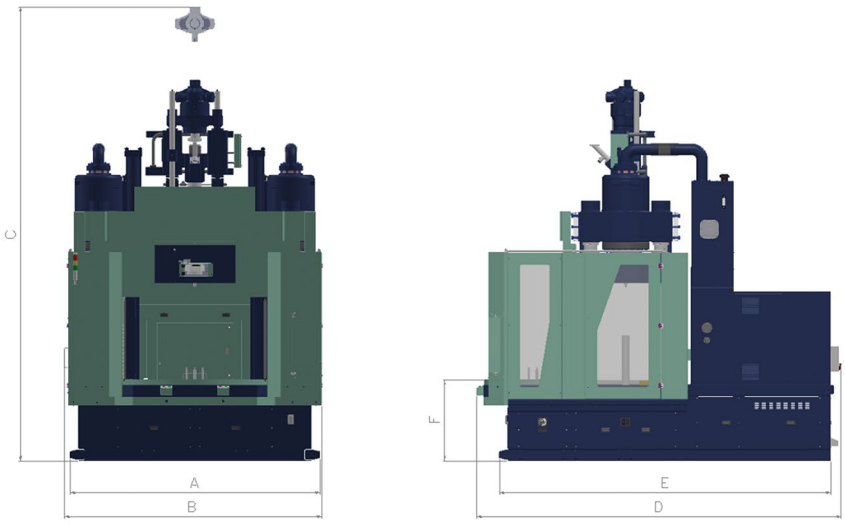


Unit: mm

	G	H	I
VHL250RS	850	600	1800
VHL350RS	980	685	1900
VHL450RS	1100	800	2200

Machine Dimension

* The images and specifications might be changed without any prior notice.



Unit: mm

	A	B	C	D	E	F
VHL250RS	2450	2540	4436	4203	3600	920
VHL350RS	2700	2720	4915	4040	3680	865
VHL450RS	3096	2900	5619	4524	4107	1002

Option List

* This page is provided for customer's better understanding.

VH-RG5		
Injection Unit	**Clamping Unit**	**General**
Standard		
01. Single Flight Screw	01. Clamping area Curtain sensor	01. Clamp area safety sensor (Vertical type IMM)
02. Injection valve gate circuit (AC 1 + DC 1)	02. Hydraulic Core puller (Moving platen side, 1 stage)	02. Standard Maintenance tools
03. PID Heating Control	03. Air blow-off unit (Fixed side 1 + Moving side 1)	03. Standard spare part
04. Heating downtime mode	04. Safety device(for electric & hydraulic)	04. Leveling pad
05. Weekly Heating Timer	05. Automatic Mold thickness adjust mode	05. Cooling water distribution
06. Cold screw start protection mode	06. Mold-Open Speed & Pressure step (5 step)	06. Automatic grease lubrication (Clamping)
07. Temperature display & Alarm in abnormal Temp.	07. Mold-Close Speed & Pressure step (5 step)	07. Robot interface (Standard)
08. Auto Purging	08. Ejector Speed & Pressure step (3 step)	08. 3 Phase electric outlet (2 ea)
09. Injection Speed & Pressure step (10 step)		09. Single Phase electric outlet (1 ea)
10. Holding Speed & Pressure step (5 step)		10. Hopper throat temperature control device
11. Charging Speed & Pressure step (4 step)		11. Hydraulic oil level alarm
12. Back Pressure control step (4 step)		12. Hydraulic oil temperature check & alarm
13. Injection Pressure Graph Display		13. Hydraulic oil heating mode
14. Injection Speed Graph Display		14. 3 color alarm light
15. Screw RPM Display		15. Shot-data saving by external way
16. Cushion Display & Alarm		16. Production data statistics
17. Charging time count & alarm		17. Alarming & History save
18. Screw & Barrel (Anti Wear)		18. Log history save
		19. I/O circuit display
		20. Shot data save (Internal 1,000 / External device)
Option		
01. Heater Disconnection check device	01. Daylight Extension	01. Hydraulic Auto-Clamp unit
02. Screw & Barrel (Nitrided barrel)	02. Hydraulic Core Check Valve	02. Heater Insulation Band
03. Screw & Barrel (Anti Wear & Corrosive)	03. Hydraulic Core Interlock Connector (EM13, WJ Standard)	03. Robot Interface (EM12, EM67, EM67.1, SPI)
04. Valve Gate Circuit & Connector (Interior type)	04. Hydraulic Core Device (Fixed,Moving, 1or2 stage)	04. CMS (Central Monitoring System)
05. Pneumatic Valve Gate Block (Interior type)	05. Spring type Ejector retraction	05. AVR (Automatic Voltage Regulator) on Electric Panel
06. Shut-off Nozzle (Pneumatic, Hydraulic, Spring)	06. Ejector Check Valve	06. UPS (Uninterrentable Power Supply) on Electric Panel
07. Customized Design Screw (SB, Mixing, Coating)	07. Ejector Forward/Backward External switch	07. Dosing unit Interface (for Masterbatch)
	08. Mold Insulation Plate	08. Gas Injection Interface
		09. Steam Injection Interface
		10. Interior type Hot Runner Controller (EM13, WJ Standard)
		11. Controller Moving device

* This page is provided for customer's better understanding.

VHA-RS		
Injection Unit	**Clamping Unit**	**General**
Standard		
01. Single Flight Screw	01. Clamping area Curtain sensor	01. Clamp area safety sensor (Vertical type IMM)
02. Injection valve gate circuit (AC 1 + DC 1)	02. Working Foot-board (Operater side, Above 120ton)	02. Standard Maintenance tools
03. Back-Pressure Closed-loop system	03. Hydraulic Core puller (Moving platen side, 1 stage)	03. Standard spare part
04. PID Heating Control	04. Air blow-off unit (1 ea)	04. Leveling pad
05. Heating downtime mode	05. Safety device(for electric & hydraulic)	05. Cooling water distribution
06. Weekly Heating Timer	06. Automatic Mold thickness adjust mode	06. Automatic grease lubrication (Clamping)
07. Cold screw start protection mode	07. Mold-Open Speed & Pressure step (4 step)	07. Robot interface (Standard)
08. Temperature display & Alarm in abnormal Temp.	08. Mold-Close Speed & Pressure step (5 step)	08. 3 Phase electric outlet (2 ea)
09. Auto Purging	09. Ejector Speed & Pressure step (2 step)	09. Single Phase electric outlet (1 ea)
10. Injection Speed & Pressure step (10 step)		10. Hopper throat temperature control device
11. Holding Speed & Pressure step (5 step)		11. Hydraulic oil purification device
12. Charging Speed & Pressure step (3 step)		12. Hydraulic oil temperature control deivce
13. Back Pressure control step (3 step)		13. Hydraulic oil level alarm
14. Injection Pressure Graph Display		14. Hydraulic oil temperature check & alarm
15. Injection Speed Graph Display		15. Hydraulic oil heating mode
16. Screw RPM Display		16. 3 color alarm light
17. Cushion Display & Alarm		17. Shot-data saving by external way
18. Charging time count & alarm		18. Production data statistics
19. Screw & Barrel (Anti Wear)		19. Alarming & History save
		20. Log history save
		21. I/O circuit display
		22. Shot data save (Internal 1,000 / External device)
Option		
01. Heater Disconnection check device	01. Daylight Extension	01. Hydraulic Auto-Clamp unit
02. Screw & Barrel (Nitrided barrel)	02. Hydraulic Core Check Valve	02. Heater Insulation Band
03. Screw & Barrel (Anti Wear & Corrosive)	03. Hydraulic Core Interlock Connector (EM13, WJ Standard)	03. Robot Interface (EM12, EM67, EM67.1, SPI)
04. Valve Gate Circuit & Connector (Interior type)	04. Hydraulic Core (Rotary table type)	04. CMS (Central Monitoring System)
05. Pneumatic Valve Gate Block (Interior type)	05. Ejector Check Valve	05. AVR (Automatic Voltage Regulator) on Electric Panel
06. Shut-off Nozzle (Pneumatic, Hydraulic, Spring)	06. Ejector Interlock Connector (WJ Standard, EM13)	06. UPS (Uninterrentable Power Supply) on Electric Panel
07. Customized Design Screw (SB, Mixing, Coating)	07. Mold Insulation Plate	07. Dosing unit Interface (for Masterbatch)
	08. Pneumatic Core Puller (1-4 Stages)	08. Gas Injection Interface
		09. Steam Injection Interface
		10. External Temperature Display (F/P)
		11. Interior type Hot Runner Controller (EM13, WJ Standard)
		12. Controller Moving device

* This page is provided for customer's better understanding.

VHL-RS		
Injection Unit	**Clamping Unit**	**General**
Standard		
01. Single Flight Screw	01. Clamping area Curtain sensor	01. Standard Maintenance tools
02. Injection valve gate circuit (AC 1 + DC 1)	02. Hydraulic Core puller (Moving platen side, 1 stage)	02. Standard spare part
03. Back-Pressure Closed-loop system	03. Air blow-off unit (1 ea)	03. Leveling pad
04. PID Heating Control	04. Safety device(for electric & hydraulic)	04. Cooling water distribution
05. Heating downtime mode	05. Automatic Mold thickness adjust mode	05. Automatic grease lubrication (Clamping)
06. Weekly Heating Timer	06. Mold-Open Speed & Pressure step (4 step)	06. Robot interface (Standard)
07. Cold screw start protection mode	07. Mold-Close Speed & Pressure step (5 step)	07. 3 Phase electric outlet (2 ea)
08. Temperature display & Alarm in abnormal Temp.	08. Ejector Speed & Pressure step (2 step)	08. Single Phase electric outlet (1 ea)
09. Auto Purging		09. Hopper throat temperature control device
10. Injection Speed & Pressure step (10 step)		10. Hydraulic oil purification device
11. Holding Speed & Pressure step (5 step)		11. Hydraulic oil temperature control deivce
12. Charging Speed & Pressure step (3 step)		12. Hydraulic oil level alarm
13. Back Pressure control step (3 step)		13. Hydraulic oil temperature check & alarm
14. Injection Pressure Graph Display		14. Hydraulic oil heating mode
15. Injection Speed Graph Display		15. 3 color alarm light
16. Screw RPM Display		16. Shot-data saving by external way
17. Cushion Display & Alarm		17. Production data statistics
18. Charging time count & alarm		18. Alarming & History save
19. Screw & Barrel (Anti Wear)		19. Log history save
		20. I/O circuit display
		21. Shot data save (Internal 1,000 / External device)
Option		
01. Heater Disconnection check device	01. Daylight Extension	01. Hydraulic Auto-Clamp unit
02. Screw & Barrel (Nitrided barrel)	02. Working Foot-board (Operater side)	02. Heater Insulation Band
03. Screw & Barrel (Anti Wear & Corrosive)	03. Hydraulic Core Check Valve	03. Robot Interface (EM12, EM67, EM67.1, SPI)
04. Valve Gate Circuit & Connector (Interior type)	04. Hydraulic Core Interlock Connector (EM13, WJ Standard)	04. CMS (Central Monitoring System)
05. Pneumatic Valve Gate Block (Interior type)	05. Hydraulic Core (Rotary table type)	05. AVR (Automatic Voltage Regulator) on Electric Panel
06. Shut-off Nozzle (Pneumatic, Hydraulic, Spring)	06. Ejector Check Valve	06. UPS (Uninterrentable Power Supply) on Electric Panel
07. Customized Design Screw (SB, Mixing, Coating)	07. Ejector Interlock Connector (WJ Standard, EM13)	07. Dosing unit Interface (for Masterbatch)
	08. Mold Insulation Plate	08. Gas Injection Interface
	09. Pneumatic Core Puller (1-4 Stages)	09. Steam Injection Interface
		10. External Temperature Display (F/P)
		11. Interior type Hot Runner Controller (EM13, WJ Standard)
		12. Controller Moving device

Controller IMC 700

Compatibility

01. Embedded Linux
02. 10/100 Mbps Ethernet
03. USB2.0, RS-232

Display	15"
Resolution	768 X 1024
Touch screen	5-wire Resistive type
CPU	Cortex - A8
RAM	DDR2, 512MB
Memory	NAND Flash, 512MB
IP Grade	IP65(Front), IP20(Back)
Machine	DL-G5, TE-G5, NC-G5, TE-NC, TB-G5, VH-RG5
Language	International Language

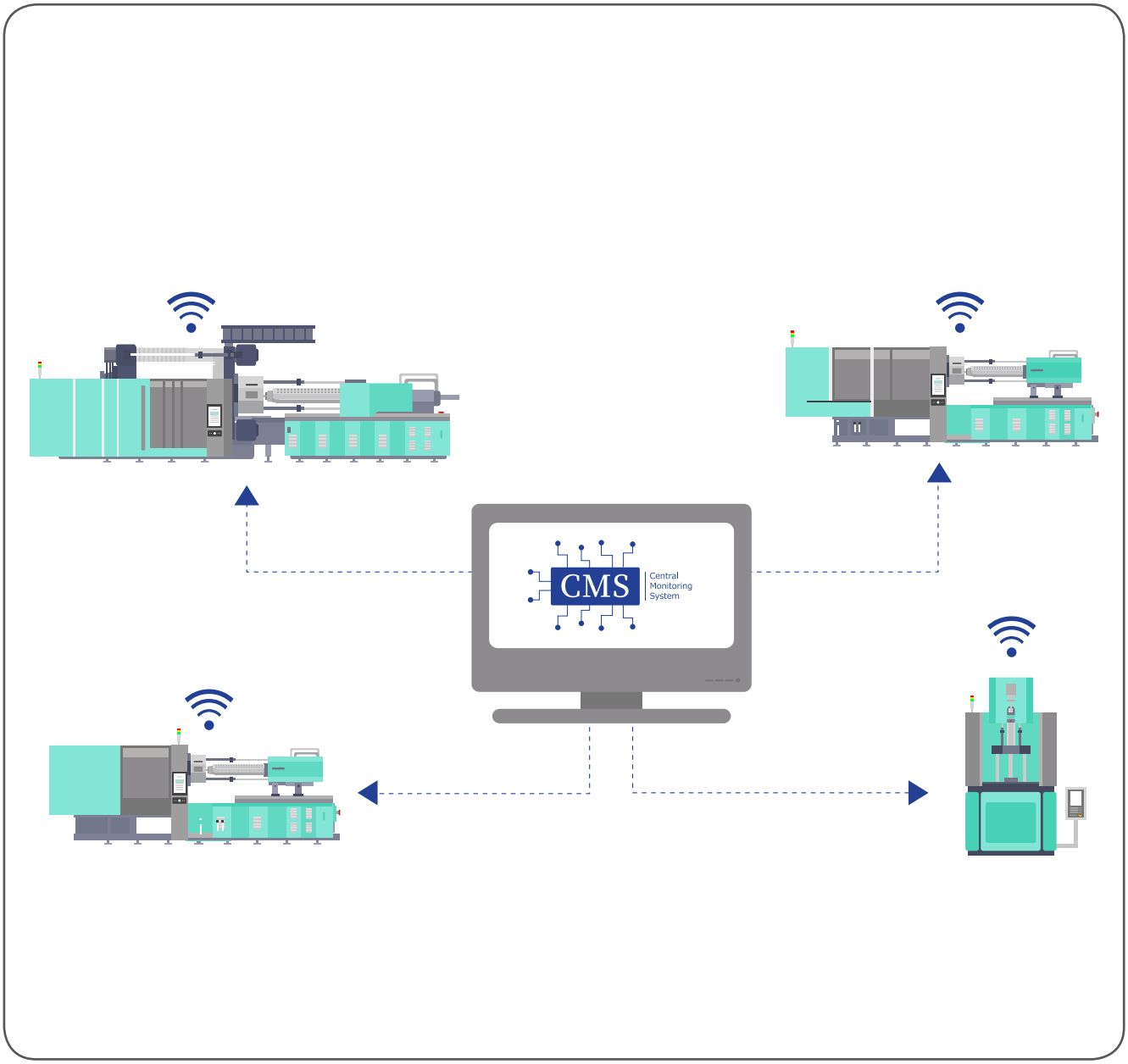
IMC 400

Compatibility

01. VxWorks Real-time processing system
02. OPC-UA(Euromap77)
03. Ethernet 10/100Mbps, CAN Bus Port, USB Port, Serial Interface
04. Energy Monitoring and CMS System

Display	15"
Resolution	768 X 1024
Touch screen	TFT Color Touch Screen
CPU	Intel atom E3815, 1460MHz
RAM	DDR3, 1GB, SDRAM
Memory	CompactFlash 32GB
IP Grade	IP65(Front), IP20(Back)
Machine	VHA-RS, DL-A5, TH-A5, VHL-RS
Language	International Language

CMS Central Monitoring System



CMS (Central Monitoring System)

01. Collection data from injection molding machine and factory facilities.
02. Provision of real-time monitoring and visualization of data.
03. Communication synchronization function between injection molding machine and auxiliaries for factory automation.
04. Provision of synchronization function with higher host systems such as EMS and ERP.
05. Provision of remote transmission of molded data.
06. Provision of user manual for easy installation and maintenance.

Effectiveness

01. Support for productivity improvement through process control and quality control functions.
02. Construction of injection process DB based on universal database.
03. Increase efficiency of injection process management through real-time monitoring.

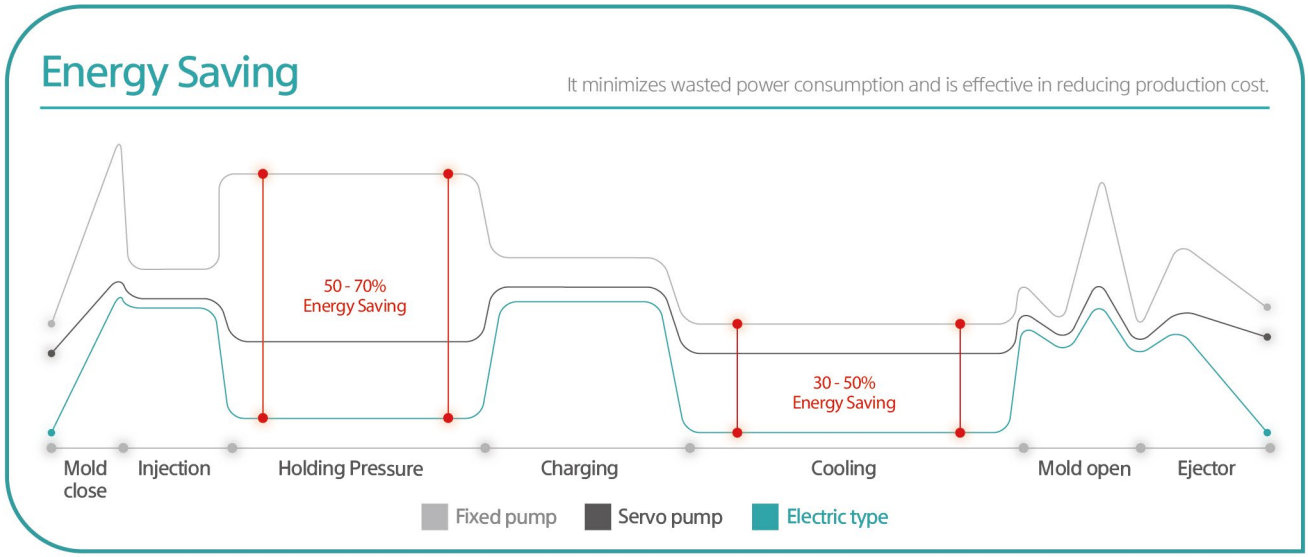
Software Requirement

01. OS: Windows 2012 server Standard
02. Database: MS SQL Server 2012 Standard

Energy Saving

Energy-saving solutions

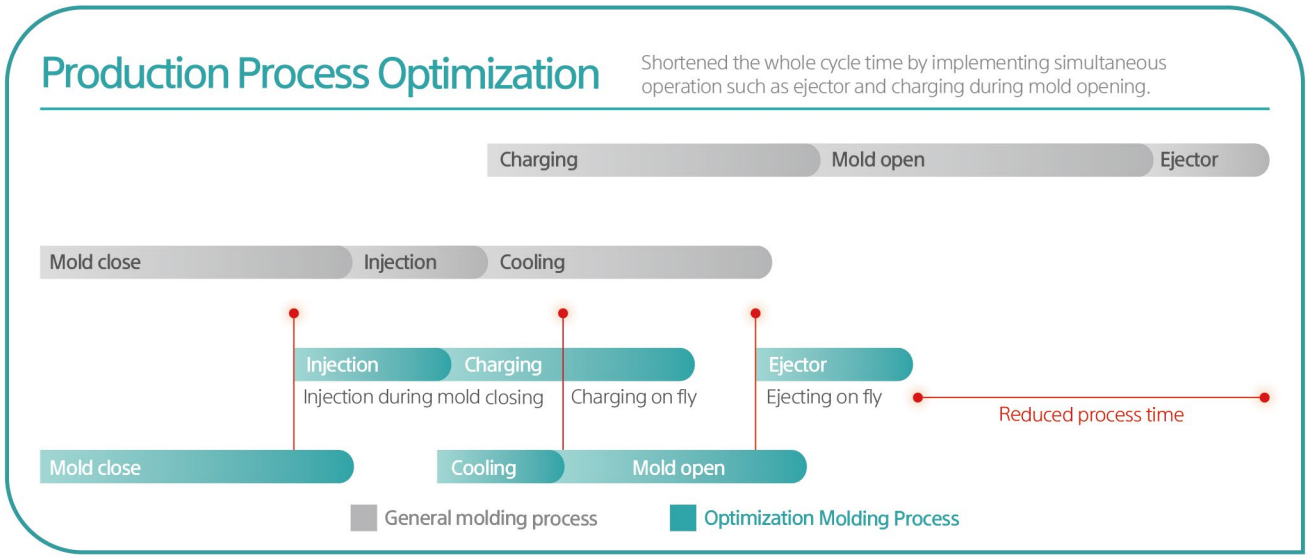
Servo systems precisely control the energy consumption of motors for each process and reduce unnecessary power and resource consumption to ease user's burden.



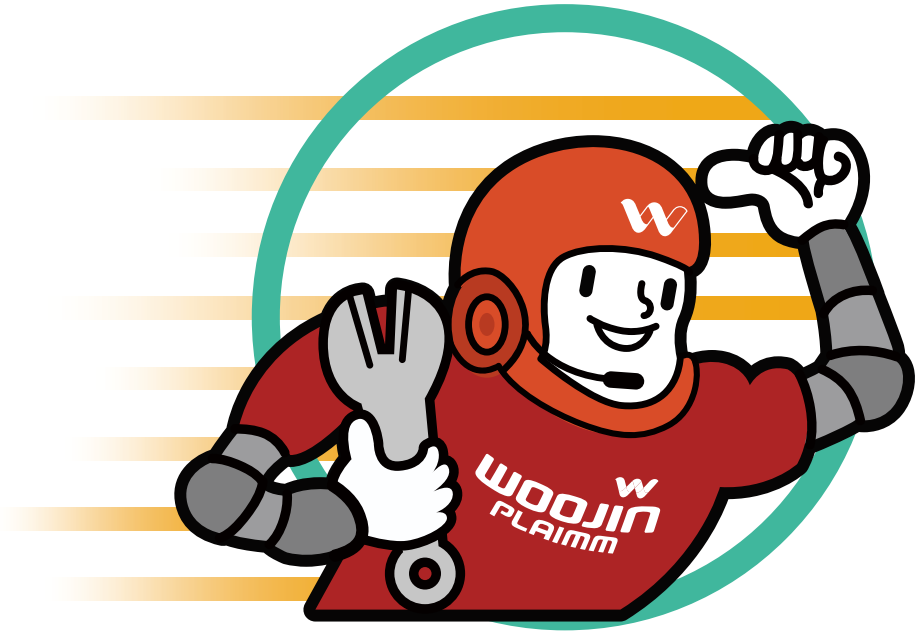
Production process optimization

Efficient production process optimization solution

Reducing overall process time means improving productivity and saving energy, and reducing process time by implementing simultaneous operations such as charging on the fly and ejecting on the fly.



SPEED CLUB



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Google Play

Dispatches A/S team within 24 hours

Our A/S experts will immediately diagnose the issue by the APP and reach your place within 24 hours.

Dedicated B/S(Before service) team

Our B/S experts routinely visit customers to check condition of machine and to provide them with technical advice, so that we can ensure maximized productivity of the machines we supplied.

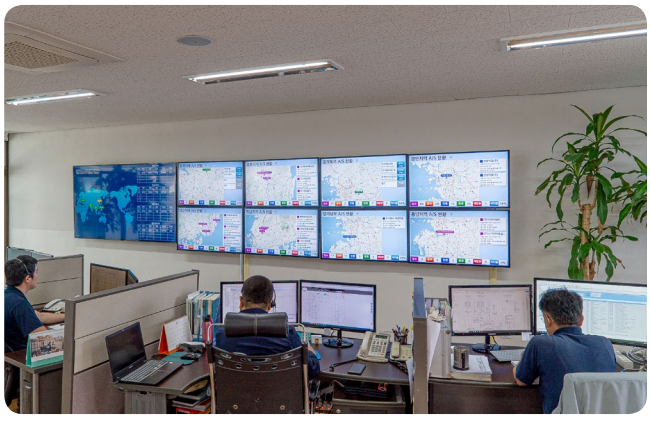
Mobile phone based APP support

Customers can review A/S progress in real time and manage the process.

Warranty extension

We insure quality of main parts.

Service Center



We operate an integrated AS control tower for real-time monitoring of SPEED CLUB mobile application and efficient service. Experts from each field are always on standby to assign technically qualified engineers through real-time meetings.

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* The product images and specifications might be changed without any prior notice for optional purpose and/or quality improvement.
* This is an updated content as of January 29, 2021. (The specifications may differ from the actual selling device.)