

WOOJIN PLAIMM

A5 SERIES CATALOGUE

THE NEW TECHNOLOGY



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DL-A5

Dignity, design and technology contained.

DL-A5 is a fast and precise two-platen direct locking and power saving injection molding machine with excellent space utilization with a beautiful and practical exterior design, and a sturdy mechanism.



New Design



01. Torque Hinge

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



02. Scale in injection unit

- Installation of scale gives visually effective while injecting motion.



03. In-line Servo drive box

- Practical use of space by in-line servo drive box.

Clamping Unit

01. Platen Structure

- Higher mold installation weight by minimizing platen bending through FEA design (ver.2)

03. Increased durability

- The application of U-shaped screws and tie bars increases durability due to stress dispersion effects.

05. Precise positioning

- Positioning improved by mounting a high-responsive proportional valve.

02. Maximized Space Utilization

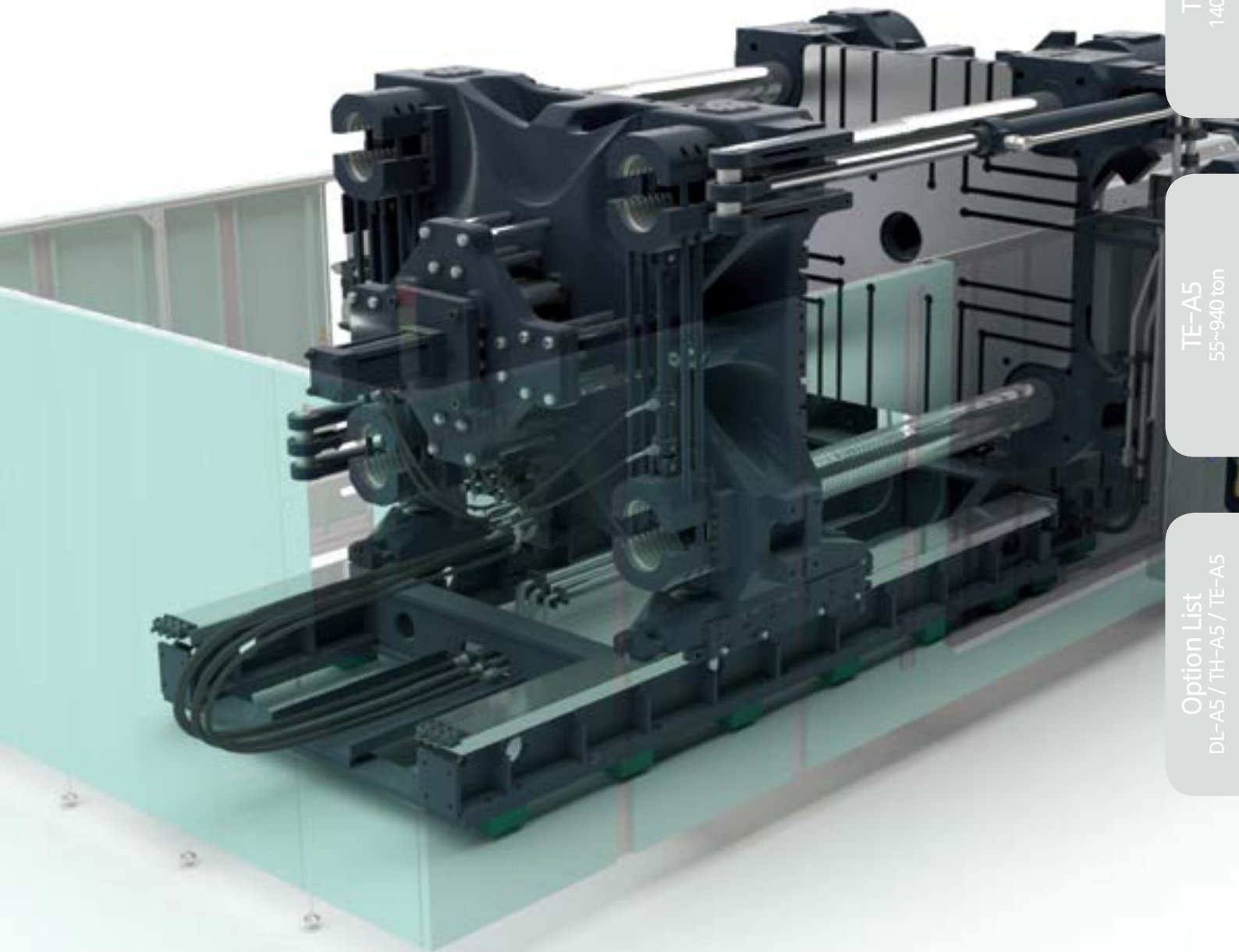
- Maximize the space utilization by easy installation and detachment of mold in low and narrow spaces (ver.2).

04. Cycle Time Reduction

- Synchronized Half-nut locking controlling system to shorten the cycle time.

06. Stable mold opening and closing

- Stable mold opening and closing by symmetrical booster cylinders.



DL-A5
ver.2, ver.1 (550~4740 ton)

TH-A5
140~530 ton

TE-A5
55~940 ton

Option List
DL-A5 / TH-A5 / TE-A5

Injection Unit

* Automatic swiveling function may not be applicable when not using standard injection unit.

01. Injection Back Pressure Closed-loop Control

- Keep constant back pressure set by user through closed-loop control.

02. Improved molding precision

- Prevent platen equilibrium problem caused by repeated nozzle touch and improve molding precision.

03. Easy to manage screw and barrel

- Easy replacement and management of screw and barrel by automatic swiveling function. (less than 1,300 tons)

04. Improve space utilization

- Improve space utilization by in-line servo drive box.

05. Energy Saving

- Energy savings through maintaining parallelism and reducing friction through the application of LM guides to injection bed and charging areas.

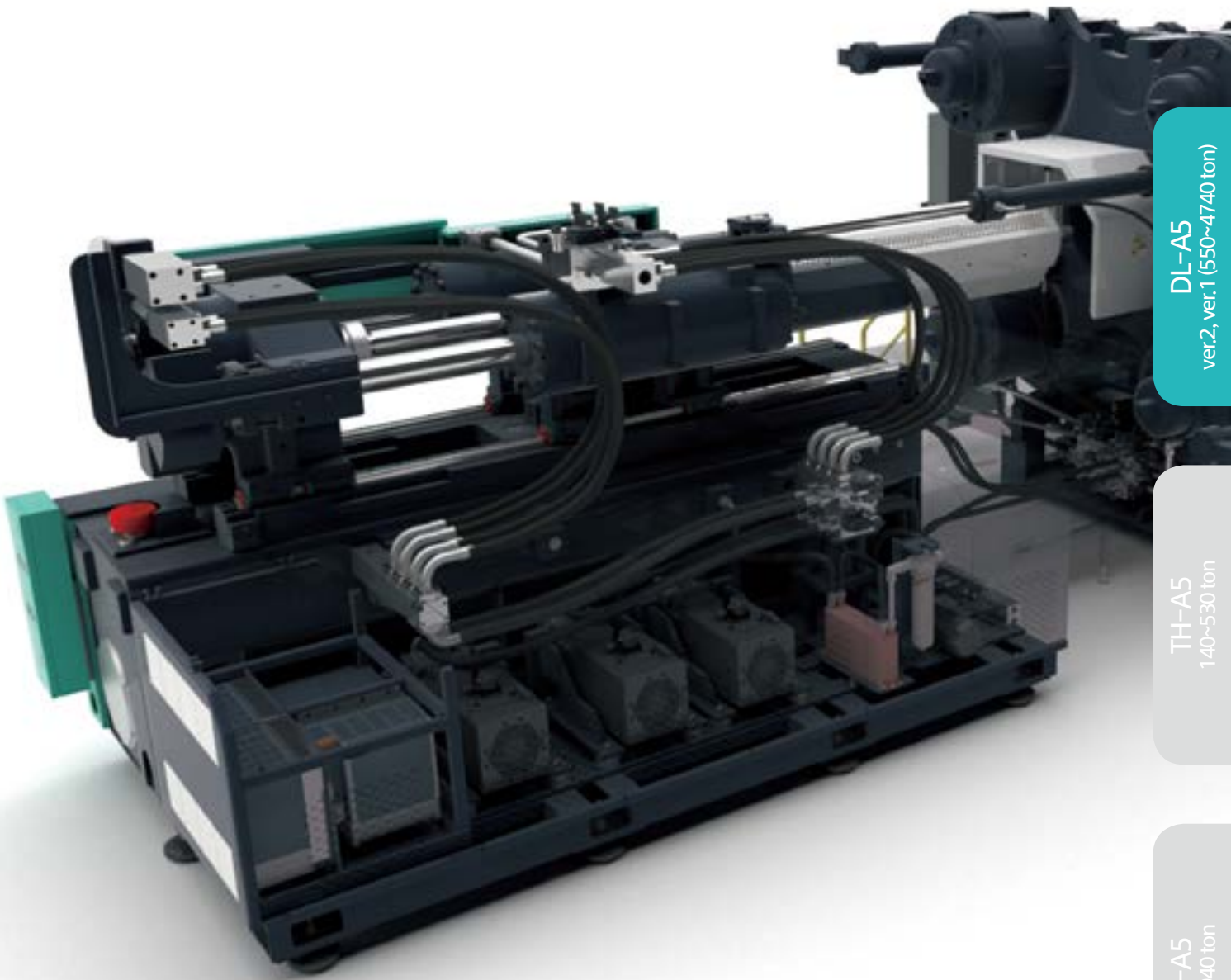


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Hydraulic Unit

01. Special coating for oil tank

- Improve internal cleanliness through special coating inside and outside of the hydraulic block.
- Prevent corrosion due to moisture and oil evaporation by specially coated oil tank.

02. Independent hydraulic oil circulation system

- Keep cleanliness and constant temperature through independent oil tank circulation system.
(contribute to longer lifespan of hydraulic oil and improved durability of hydraulic components)

03. Leakage prevention in hydraulic pipes

- Seamless pipes, expansion tubes, and EO2FORM piping connections robust against high pressure and vibration prevent leakage and damage on parts.

04. Reduction of energy and cooling water consumption

- Servo pump system minimize idle operation so as to reduce energy and cooling water consumption.

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.

		DL1150A5			DL1450A5		DL1870A5		DL2000A5	
		IH8800			IH11900		IH15300		IH15300	
Injection Unit										
Screw & Barrel type		O	A	B	A	B	A	B	A	B
Screw diameter	mm	3.74	4.13	4.53	4.53	4.92	4.92	5.51	4.92	5.51
Injection pressure	kg/cm ²	30507	24973	20819	25729	21777	25801	20567	25801	20567
Theoretical injection volume	cm ³	250.88	306.48	367.63	399.32	471.79	512.98	643.48	512.98	643.48
Shot weight(PS)	g	133.63	163.25	195.82	212.70	251.30	273.24	342.76	273.24	342.76
Injection rate	cm ³ /s	51.99	63.53	76.16	76.22	90.01	79.09	99.22	79.09	99.22
Screw stroke	mm	22.83	22.83	22.83	24.80	24.80	26.97	26.97	26.97	26.97
Injection speed	mm/s	4.72	4.72	4.72	4.72	4.72	4.17	4.17	4.17	4.17
Plasticizing capacity	kg/h	866	1135	1455	1338	1682	1537	2070	1537	2070
Screw rotation speed	rpm	125	125	125	115	115	105	105	105	105
Clamping Unit										
Clamping force	ton(kN)	1150			1450		1870		2000	
Mold opening force	ton(kN)	86.80			107.47		140.54		148.81	
Distance between tie-bar(HxV)	mm	55.51 × 43.7			55.51 × 55.51		71.25 × 63.38		71.25 × 63.38	
Platen dimension(HxV)	mm	76.77 × 64.96			76.77 × 76.77		96.45 × 85.82		96.45 × 85.82	
Daylight	mm	94.48			98.42		125.98		125.98	
Min. mold height	mm	23.63			27.56		27.56		27.56	
Max. mold height	mm	47.24			47.24		62.99		62.99	
Ejector force	ton(kN)	29.65			37.91		49.05		49.05	
Ejector stroke	mm	9.84			11.81		11.81		11.81	
Dry cycle time	sec	4.4			5.0		5.8		5.8	
Max. mold weight (Fixed / Moving / Total)	ton	9.3 / 9.3 / 14.3			13.2 / 13.2 / 18.7		17.6 / 17.6 / 26.4		17.6 / 17.6 / 26.4	
General										
Heater capacity	kW	39.7	44.7	49.4	54.7	58.1	61.6	70.8	61.6	70.8
Motor capacity	kW	94.0			120.0		120.0		120.0	
Total electric power capacity	kW	133.7	138.7	143.4	174.7	178.1	181.6	190.8	181.6	190.8
Hydraulic oil tank capacity	L	290.59			449.10		449.10		449.10	
Machine weight (Clamping+Injection)	ton	55.2 (41.4+13.8)			74 (55.2+18.8)		98.2 (77.2+21)		98.2 (77.2+21)	
Machine dimension(LxWxH)	m	32.81 × 11.49 × 8.21			34.78 × 11.82 × 9.52		41.67 × 13.46 × 11.16		41.67 × 13.46 × 11.16	
Cooling water consumption	L/min	47.56			47.56		47.56		47.56	

DL-A5
ver.2, ver.1 (550~4740 ton)

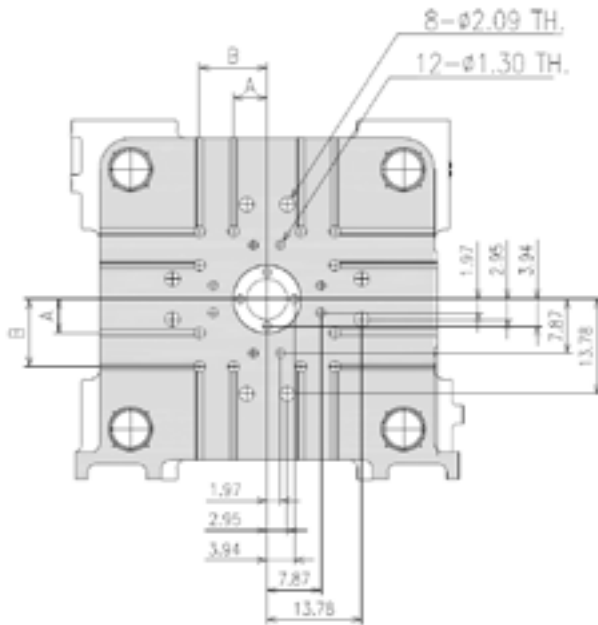
TH-A5
140~530 ton

TE-A5
55~940 ton

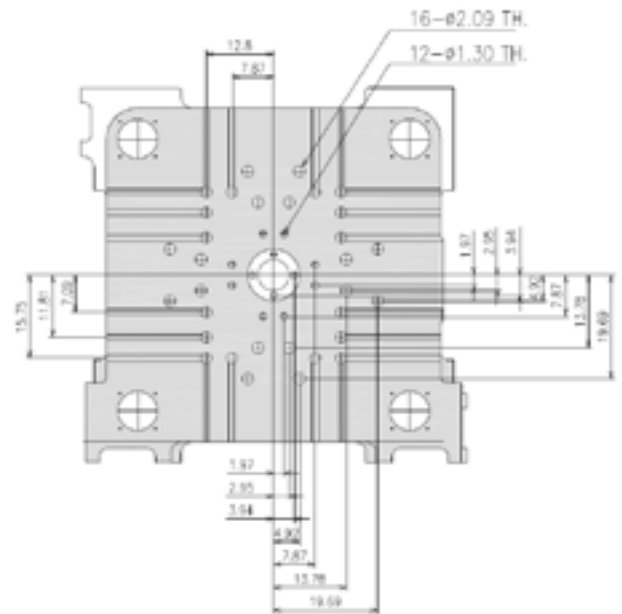
Option List
DL-A5 / TH-A5 / TE-A5

Platen Dimension

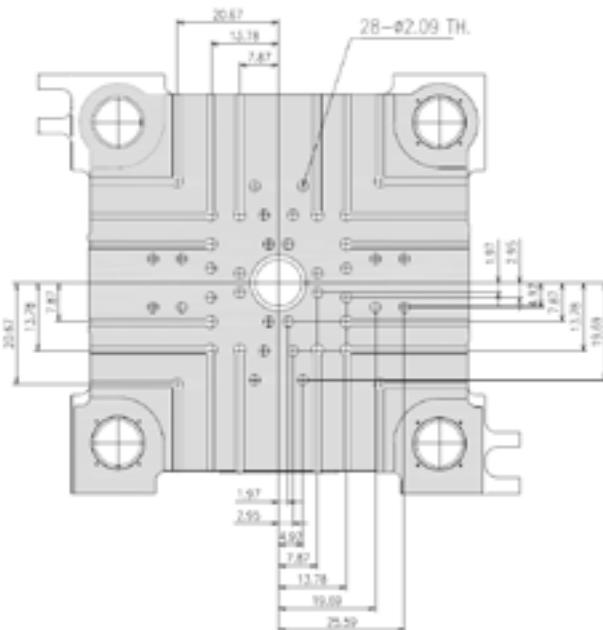
* The images and specifications might be changed without any prior notice.



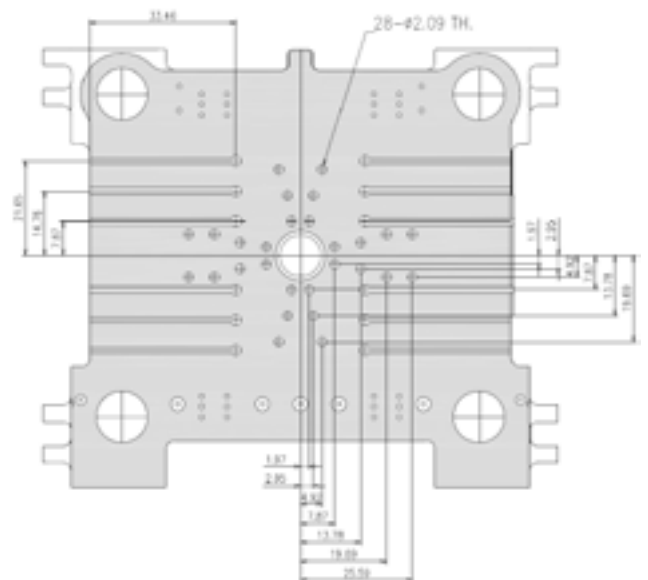
500 ton (A: 4.92 / B: 9.84)
600 ton (A: 5.51 / B: 11.02)
720 ton (A: 7.87 / B: 12.80)



930 / 1150 ton



1450 ton



1870 ton

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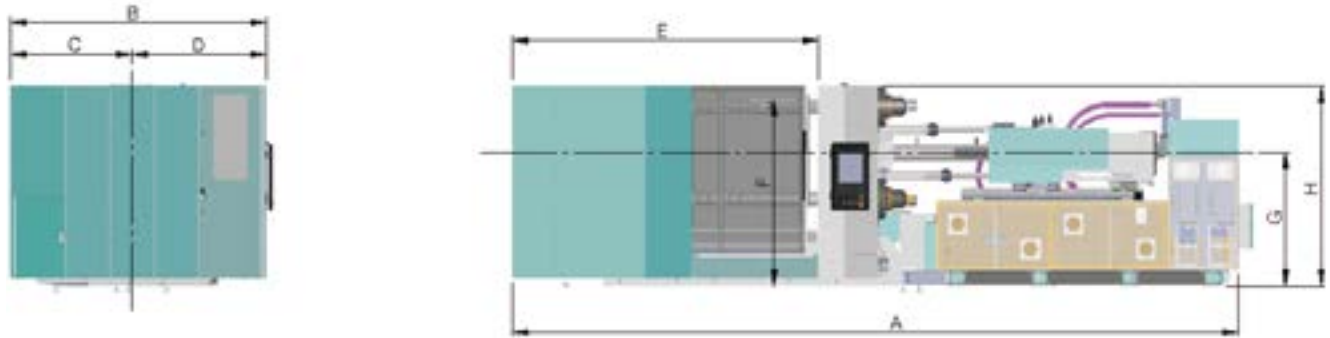
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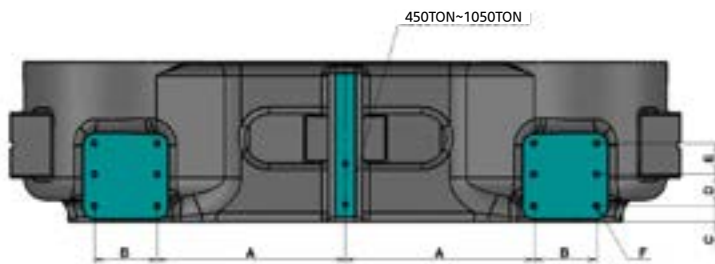
Machine Dimension

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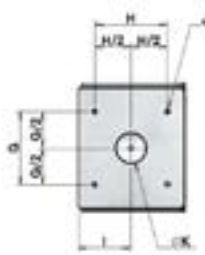


Unit: inch

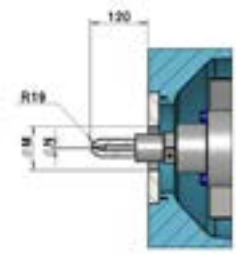
	A	B	C	D	E	F	G	H
DL500A5	289.49	92.13	48.23	43.90	113.90	77.36	55.51	82.87
DL600A5	293.94	110.55	59.06	51.50	118.46	80.04	55.51	86.22
DL720A5	317.48	114.45	61.02	53.43	131.26	84.06	57.09	90.75
DL930A5	371.10	124.33	64.57	59.76	154.29	88.11	58.66	95.87
DL1150A5	390.28	137.76	70.43	67.32	169.49	89.17	58.66	97.44
DL1450A5	415.87	139.57	70.87	68.70	177.68	104.76	68.11	114.21
DL1870A5	482.13	161.34	82.52	78.82	209.84	118.31	76.77	132.72
DL2000A5	482.13	161.34	82.52	78.82	209.84	118.31	76.77	132.72



▲ Robot installation position dimension



▲ Hopper installation position dimension



▲ Nozzle dimension

Unit: inch

	Robot installation position dimension						Hopper installation position dimension					Nozzle dimension	
	A	B	C	D	E	F	G	H	I	J	K	M	ØN
DL500A5	8.27		4.13	7.28		4-M20	6.50	6.50	4.72	4-M12	2.68	3.94	0.15
DL600A5	7.68		4.13	9.65		4-M20	6.50	6.50	5.12	4-M12	3.07	3.94	0.19
DL720A5	9.25		4.33	10.43		4-M24	6.50	6.50	5.51	4-M12	3.46	3.94	0.19
DL930A5	9.25		4.53	12.99		4-M24	6.50	6.50	6.69	4-M12	4.06	3.94	0.23
DL1150A5	13.19		4.92	14.76		4-M30	6.50	6.50	6.69	4-M12	4.06	3.94	0.23
DL1450A5	22.05	11.02	2.76	5.51	5.51	12-M24	11.02	7.87	7.48	4-M16	4.45	4.72	0.23
DL1870A5	33.07	11.02	2.76	5.51	5.51	12-M24	11.02	7.87	4.41	4-M16	4.84	4.72	0.27
DL2000A5	33.07	11.02	2.76	5.51	5.51	12-M24	11.02	7.87	4.41	4-M16	4.84	4.72	0.27

DL-A5
ver.2, ver.1 (550~4740 ton)

TH-A5
140~530 ton

TE-A5
55~940 ton

Option List
DL-A5 / TH-A5 / TE-A5

Option List

* This page is provided for customer's better understanding.
* Automatic swiveling function may not be applicable when not using standard injection unit.

DL-A5 ver.2		
Injection Unit	Clamping Unit	General
Standard		
01. Automatic Injection unit swiveling (Below IH 11900) 02. Single Flight Screw 03. Injection valve gate circuit (AC 1 + DC 1) 04. Back-Pressure Closed-loop system 05. PID Heating Control 06. Heating downtime mode 07. Weekly Heating Timer 08. Cold screw start protection mode 09. Temperature display & Alarm in abnormal Temp. 10. Auto Purging 11. Injection Speed & Pressure step (10 step) 12. Holding Speed & Pressure step (5 step) 13. Charging Speed & Pressure step (3 step) 14. Back Pressure control step (3 step) 15. Injection Pressure Graph Display 16. Injection Speed Graph Display 17. Screw RPM Display 18. Cushion Display & Alarm 19. Charging time count & alarm 20. Screw & Barrel (Anti Wear)	01. Safety Foot-board (Above 900ton) 02. Automatic safety Door open/close (Above 500ton) 03. Clamping area Curtain sensor 04. Hydraulic Core puller (Moving platen side, 1 stage) 05. Air blow-off unit (Fixed side 1 + Moving side 1) 06. Safety device(for electric & hydraulic) 07. Spring mold mode 08. Automatic Mold thickness adjust mode 09. Mold-Open Speed & Pressure step (5 step) 10. Mold-Close Speed & Pressure step (5 step) 11. Ejector Speed & Pressure step (3 step)	01. Standard Maintenance tools 02. Standard spare part 03. Leveling pad 04. Cooling water distributor 05. Automatic grease lubrication (Clamping) 06. Robot interface (Standard) 07. 3 Phase electric outlet (2 ea) 08. Single Phase electric outlet (1 ea) 09. Steel tray for resin leakage 10. Hopper throat temperature control device 11. Hydraulic oil purification device 12. Hydraulic oil temperature control device 13. Hydraulic oil level alarm 14. Hydraulic oil temperature check & alarm 15. Hydraulic oil heating mode 16. 3 color alarm light 17. Shot data saving by external way 18. Production data statistics 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 02. Hopper Slide (L/M) 03. Hopper Ladder & Stand 04. Screw & Barrel (Nitrided barrel) 05. Screw & Barrel (Anti Wear & Corrosive) 06. Valve Gate Circuit & Connector (Interior type) 07. Hydraulic Valve Gate Block (Interior type) 08. Pneumatic Valve Gate Block (Interior type) 09. Hydraulic Valve Gate Device (External device) 10. Nozzle cylinders equipped with Potentiometers 11. Charging on Fly (Pump type) 12. Charging on Fly (AC Motor) 13. Shut-off Nozzle (Pneumatic, Hydraulic, Spring) 14. Customized Design Screw (SB, Mixing, Coating)	01. Rotating Core Circuit 02. Safety Foot-board (Below 700ton) 03. Core & Ejector on Fly 04. Daylight Extension 05. Core-Back Mode 06. Core Pressure release Circuit (Automatic) 07. Core Pressure release Circuit (Manual) 08. Product Chute 09. Automatic Tie-bar Retraction 10. Hydraulic Core Check Valve 11. Hydraulic Core Interlock Connector (EM13, WJ Standard) 12. Hydraulic Core Puller (2~8 Stages) 13. Mold ring on Moving-Platen 14. Spring type Ejector retraction 15. Ejector Check Valve 16. Ejector Interlock Connector (WJ Standard, EM13) 17. Ejector Forward / Backward External switch 18. Mold Insulation Plate 19. Pneumatic Core Puller (1~7 Stages)	01. Hydraulic Auto-Clamp unit 02. Anchor-bolt set (Clamping unit) 03. Heater Insulation Band 04. Automatic Grease Lubrication (Injection unit) 05. Robot Interface (EM12, EM 67, EM67.1, SPI) 06. CMS (Central Monitoring System) 07. AVR (Automatic Voltage Regulator) on Electric Panel 08. UPS (Uninterruptable Power Supply) on Electric Panel 09. Dosing unit Interface (for Masterbatch) 10. Gas Injection Interface 11. Steam Injection Interface 12. External Temperature Display (F/P) 13. Interior type Hot Runner Controller (EM13, WJ Standard)

DL-A5 (550~4740 ton)
 TH-A5 (140~530 ton)
 TE-A5 (55~940 ton)
 Option List
 DL-A5 / TH-A5 / TE-A5

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DL-A5 ver.1		
Injection Unit	Clamping Unit	General
Standard		
01. Automatic Injection unit swiveling (Below IH 11900) 02. Single Flight Screw 03. Injection valve gate circuit (AC 1 + DC 1) 04. Back-Pressure Closed-loop system 05. PID Heating Control 06. Heating downtime mode 07. Weekly Heating Timer 08. Cold screw start protection mode 09. Temperature display & Alarm in abnormal Temp. 10. Auto Purging 11. Injection Speed & Pressure step (10 step) 12. Holding Speed & Pressure step (5 step) 13. Charging Speed & Pressure step (3 step) 14. Back Pressure control step (3 step) 15. Injection Pressure Graph Display 16. Injection Speed Graph Display 17. Screw RPM Display 18. Cushion Display & Alarm 19. Charging time count & alarm 20. Screw & Barrel (Anti Wear)	01. Safety Foot-board (Above 1050ton) 02. Automatic safety Door open/close (Above 450ton) 03. Clamping area Curtain sensor (Above 550ton) 04. Hydraulic Core puller (Moving platen side, 1 stage) 05. Air blow-off unit (Fixed side 1 + Moving side 1) 06. Safety device(for electric & hydraulic) 07. Spring mold mode 08. Automatic Mold thickness adjust mode 09. Mold-Open Speed & Pressure step (5 step) 10. Mold-Close Speed & Pressure step (5 step) 11. Ejector Speed & Pressure step (3 step)	01. Standard Maintenance tools 02. Standard spare part 03. Leveling pad 04. Cooling water distributor 05. Automatic grease lubrication (Clamping) 06. Robot interface (Standard) 07. 3 Phase electric outlet (2 ea) 08. Single Phase electric outlet (1 ea) 09. Steel tray for resin leakage 10. Hopper throat temperature control device 11. Hydraulic oil purification device 12. Hydraulic oil temperature control device 13. Hydraulic oil level alarm 14. Hydraulic oil temperature check & alarm 15. Hydraulic oil heating mode 16. 3 color alarm light 17. Shot data saving by external way 18. Production data statistics 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 02. Hopper Slide (L/M) 03. Hopper Ladder & Stand 04. Screw & Barrel (Nitrided barrel) 05. Screw & Barrel (Anti Wear & Corrosive) 06. Valve Gate Circuit & Connector (Interior type) 07. Hydraulic Valve Gate Block (Interior type) 08. Pneumatic Valve Gate Block (Interior type) 09. Hydraulic Valve Gate Device (External device) 10. Nozzle cylinders equipped with Potentiometers 11. Charging on Fly (Pump type) 12. Charging on Fly (AC Motor) 13. Shut-off Nozzle (Pneumatic, Hydraulic, Spring) 14. Customized Design Screw (SB, Mixing, Coating)	01. Rotating Core Circuit 02. Safety Foot-board (Below 850ton) 03. Core & Ejector on Fly 04. Daylight Extension 05. Core-Back Mode 06. Core Pressure release Circuit (Automatic) 07. Core Pressure release Circuit (Manual) 08. Product Chute 09. Automatic Tie-bar Retraction 10. Hydraulic Core Check Valve 11. Hydraulic Core Interlock Connector (EM13, WJ Standard) 12. Hydraulic Core Puller (2~8 Stages) 13. Mold ring on Moving-Platen 14. Spring type Ejector retraction 15. Ejector Check Valve 16. Ejector Interlock Connector (WJ Standard, EM13) 17. Ejector Forward / Backward External switch 18. Mold Insulation Platen 19. Pneumatic Core Puller (1~7 Stages)	01. Hydraulic Auto-Clamp unit 02. Anchor-bolt set (Clamping unit) 03. Heater Insulation Band 04. Automatic Grease Lubrication (Injection unit) 05. Robot Interface (EM12, EM 67, EM67.1, SPI) 06. CMS (Central Monitoring System) 07. AVR (Automatic Voltage Regulator) on Electric Panel 08. UPS (Uninterruptable Power Supply) on Electric Panel 09. Dosing unit Interface (for Masterbatch) 10. Gas Injection Interface 11. Steam Injection Interface 12. External Temperature Display (F/P) 13. Interior type Hot Runner Controller (EM13, WJ Standard)

DL-A5
ver.2, ver.1 (550~4740 ton)

TH-A5
140~530 ton

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Option List
DL-A5 / TH-A5 / TE-A5

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

TH-A5		
Injection Unit	Clamping Unit	General
Standard		
01. Single Flight Screw 02. Injection valve gate circuit (AC 1 + DC 1) 03. Back-Pressure Closed-loop system 04. PID Heating Control 05. Heating downtime mode 06. Weekly Heating Timer 07. Cold screw start protection mode 08. Temperature display & Alarm in abnormal Temp. 09. Auto Purging 10. Injection Speed & Pressure step (10 step) 11. Holding Speed & Pressure step (5 step) 12. Holding Speed & Pressure step (3 step) 13. Charging Speed & Pressure step (3 step) 14. Back Pressure control step (3 step) 15. Injection Pressure Graph Display 16. Injection Speed Graph Display 17. Screw RPM Display 18. Cushion Display & Alarm 19. Charging time count & alarm 20. Screw & Barrel (Anti Wear)	01. Mold thickness adjusting break unit 02. Hydraulic Core puller (Moving platen side, 1 stage) 03. Air blow-off unit (Fixed side 1 + Moving side 1) 04. Safety device(for electric & hydraulic) 05. Automatic Mold thickness adjust mode 06. Mold-Open Speed & Pressure step (5 step) 07. Mold-Close Speed & Pressure step (5 step) 08. Ejector Speed & Pressure step (3 step)	01. Standard Maintenance tools 02. Standard spare part 03. Leveling pad 04. Cooling water distributor 05. Automatic oil lubrication (Toggle) 06. Robot interface (Standard) 07. 3 Phase electric outlet (2 ea) 08. Single Phase electric outlet (1 ea) 09. Hopper throat temperature control device 10. Hydraulic oil purification device 11. Hydraulic oil temperature control device 12. Hydraulic oil level alarm 13. Hydraulic oil temperature check & alarm 14. Hydraulic oil heating mode 15. 3 color alarm light 16. Shot data saving by external way 17. Production data statistics 18. Alarming & History save 19. Log history save 20. I/O circuit display 21. Shot data save (Internal 1,000 / External device)
Option		
01. Heater Disconnection check device 02. Hopper Slide (L/M) 03. Screw & Barrel (Nitrided barrel) 04. Screw & Barrel (Anti Wear & Corrosive) 05. Fast Injection Circuit (ACC) 06. Valve Gate Circuit & Connector (Interior type) 07. Hydraulic Valve Gate Block (Interior type) 08. Pneumatic Valve Gate Block (Interior type) 09. Hydraulic Valve Gate Device (External device) 10. Charging on Fly (Pump type) 11. Charging on Fly (AC Motor) 12. Shut-off Nozzle (Pneumatic, Hydraulic, Spring) 13. Customized Design Screw (SB, Mixing, Coating)	01. Rotating Core Circuit 02. Actual Clamping force for Displaying 03. Core & Ejector on Fly 04. Daylight Extension 05. Automatic safety Door open/close 06. Core Pressure release Circuit (Automatic) 07. Core Pressure release Circuit (Manual) 08. Product Chute 09. Hydraulic Core Check Valve 10. Hydraulic Core Interlock Connector (EM13, WJ Standard) 11. Hydraulic Core Puller (2~4 Stages) 12. Mold ring on Moving-Platen 13. Ejector Check Valve 14. Ejector Interlock Connector (WJ Standard, EM13) 15. Ejector Forward/Backward External switch 16. Mold Insulation Platen 17. Pneumatic Core Puller (1-4 Stages)	01. Lubricating oil Recycling device 02. Product drop check device 03. Product quality sorting device 04. Hydraulic Auto-Clamp unit 05. Steel tray for resin leakage 06. Heater Insulation Band 07. Automatic Grease Lubrication (Clamping unit) 08. Automatic Grease Lubrication (Injection unit) 09. Robot Interface (EM12, EM67, EM67.1, SPI) 10. CMS (Central Monitoring System) 11. AVR (Automatic Voltage Regulator) on Electric Panel 12. UPS (Uninterruptable Power Supply) on Electric Panel 13. Dosing unit Interface (for Masterbatch) 14. Gas Injection Interface 15. Steam Injection Interface 16. External Temperature Display (F/P) 17. Interior type Hot Runner Controller (EM13, WJ Standard)

DL-A5
Ver.2, ver.1 (550~4740 ton)

TH-A5
140~530 ton

TE-A5
55~940 ton

Option List
DL-A5 / TH-A5 / TE-A5

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

TE-A5		
Injection Unit	Clamping Unit	General
Standard		
01. Single Flight Screw	01. Ejecting on fly	01. Standard Maintenance tools
02. Charging on Fly	02. Air blow-off unit (Fixed side 1 + Moving side 1)	02. Standard spare part
03. Injection valve gate circuit (AC 1 + DC 1)	03. Safety device(for electric & hydraulic)	03. Leveling pad
04. Back-Pressure Closed-loop system	04. Automatic clamp force measurement mode	04. Cooling water distribution
05. PID Heating Control	05. Automatic Mold thickness adjust mode	05. Automatic Ball-screw grease lubrication (All parts)
06. Heating downtime mode	06. Mold-Open Speed & Pressure step (5 step)	06. Automatic oil lubrication (Toggle)
07. Weekly Heating Timer	07. Mold-Close Speed & Pressure step (5 step)	07. Robot interface (Standard)
08. Cold screw protection mode	08. Ejector Speed & Pressure step (3 step)	08. 3 Phase electric outlet (2 ea)
09. Temperature display & Alarm in abnormal Temp.		09. Single Phase electric outlet (1 ea)
10. Auto Purging		10. Hopper throat temperature control device
11. Injection Speed & Pressure step (10 step)		11. 3 color alarm light
12. Holding Speed & Pressure step (5 step)		12. Shot data saving by external way
13. Holding Speed & Pressure step (3 step)		13. Production data statistics
14. Charging Speed & Pressure step (3 step)		14. Alarming & History save
15. Injection Pressure Graph Display		15. Log history save
16. Injection Speed Graph Display		16. I/O circuit display
17. Screw RPM Display		17. Shot data save (Internal 1,000 / External device)
18. Cushion Display & Alarm		
19. Charging time count & alarm		
20. Screw & Barrel (Anti Wear)		
Option		
01. Heater Disconnection check device	01. Rotating Core Circuit	01. Lubricating oil Recycling device
02. Hopper Slide (L/M)	02. Safety Foot-board (Above 650ton)	02. Product drop check device
03. Long-holding pressure type upgrade	03. Core on Fly	03. Product quality sorting device
04. Screw & Barrel (Nitrided barrel)	04. Daylight Extension	04. Hydraulic Auto-Clamp unit
05. Screw & Barrel (Anti Wear & Corrosive)	05. Automatic safety Door open/close	05. Steel tray for resin leakage
06. Valve Gate Circuit & Connector (Interior type)	06. Product Chute	06. Heater Insulation Band
07. Pneumatic Valve Gate Block (Interior type)	07. Hydraulic Core Interlock Connector (EM13, WJ Standard)	07. Robot Interface (EM12, EM67, EM67.1, SPI)
08. Nozzle cylinders equipped with Potentiometers	08. Hydraulic Core Device (Fixed, Moving, 1or2 stage)	08. CMS (Central Monitoring System)
09. Shut-off Nozzle (Pneumatic, Hydraulic, Spring)	09. Mold ring on Moving-Platen	09. AVR (Automatic Voltage Regulator) on Electric Panel
10. Customized Design Screw (SB, Mixing, Coating)	10. Ejector Interlock Connector (WJ Standard, EM13)	10. UPS (Uninterrentable Power Supply) on Electric Panel
	11. Ejector Forward/Backward External switch	11. Dosing unit Interface (for Masterbatch)
	12. Mold Insulation Platen	12. Gas Injection Interface
	13. Pneumatic Core Puller (1-4 Stages)	13. Steam Injection Interface
		14. External Temperature Display (F/P)
		15. Interior type Hot Runner Controller (EM13, WJ Standard)

DL-A5
ver.2, ver.1 (550~4740 ton)

TH-A5
140~530 ton

TE-A5
55~940 ton

Option List
DL-A5 / TH-A5 / TE-A5

Controller IMC 500 / 501



Compatibility

01. Windows7 Embedded
02. OPC-UA(Euromap77)
03. Gigabit Ethernet
04. USB3.0, RS232

Display

18.5" / 24"

Resolution

768 x 1366 / 1080 x 1920

Touch screen

Projected capacitive

CPU

Intel Celeron G3900E 1.7GHz

RAM

SO-DIMM DDR3, 8192MB

Memory

Cfast 32Gbyte MLC

IP Grade

IP65(Front), IP20(Back)

Machine

TH-A5, TE-A5, DL-A5

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)

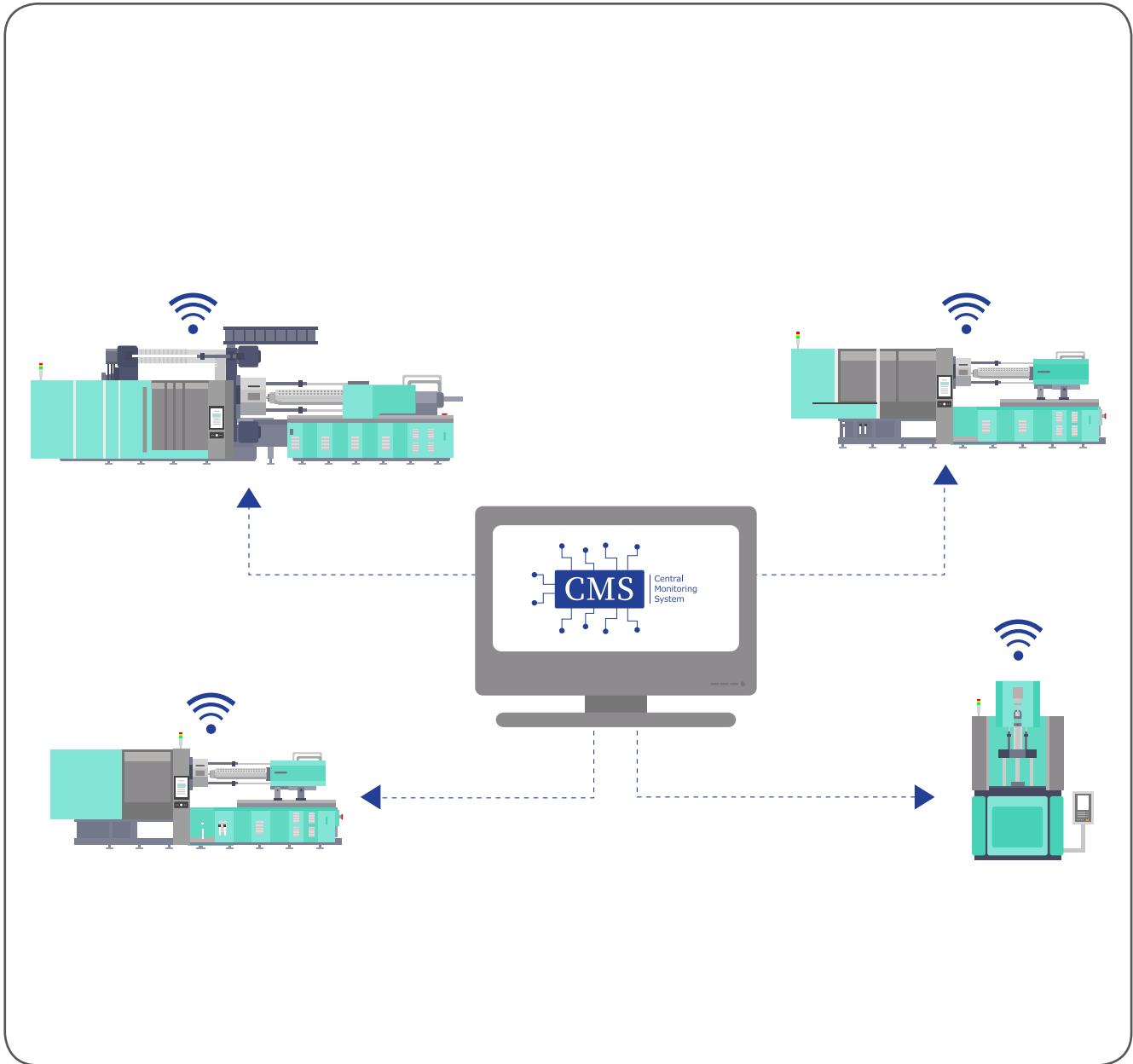
Machine

VHA, DL-A5, TH-A5, VHS

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.

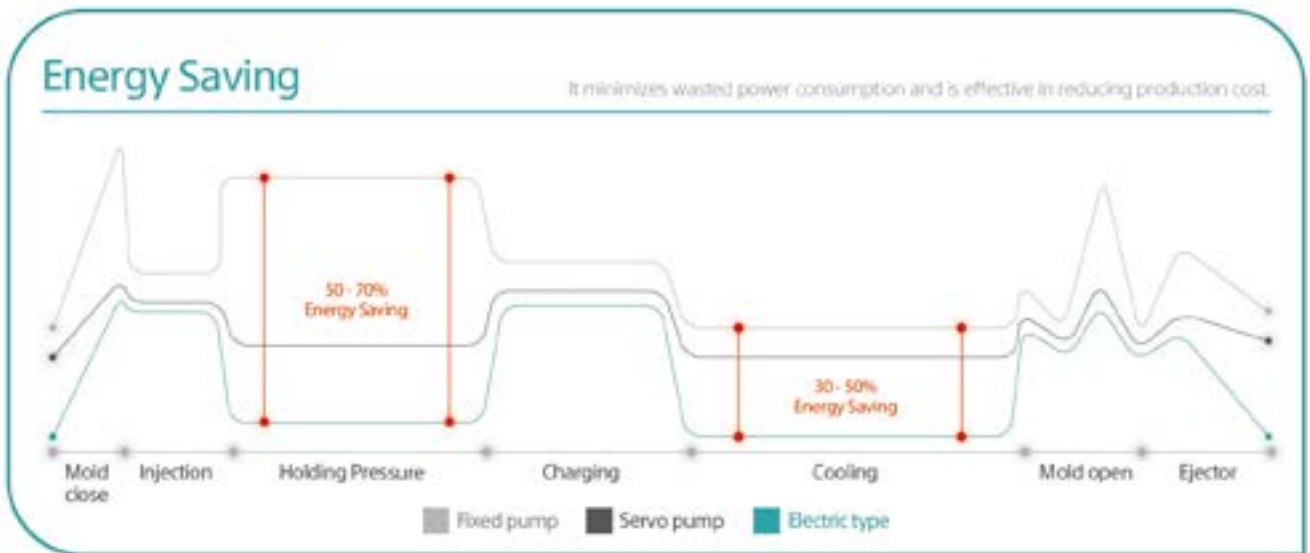
Software Requirement

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

Energy Saving

Energy-saving solutions

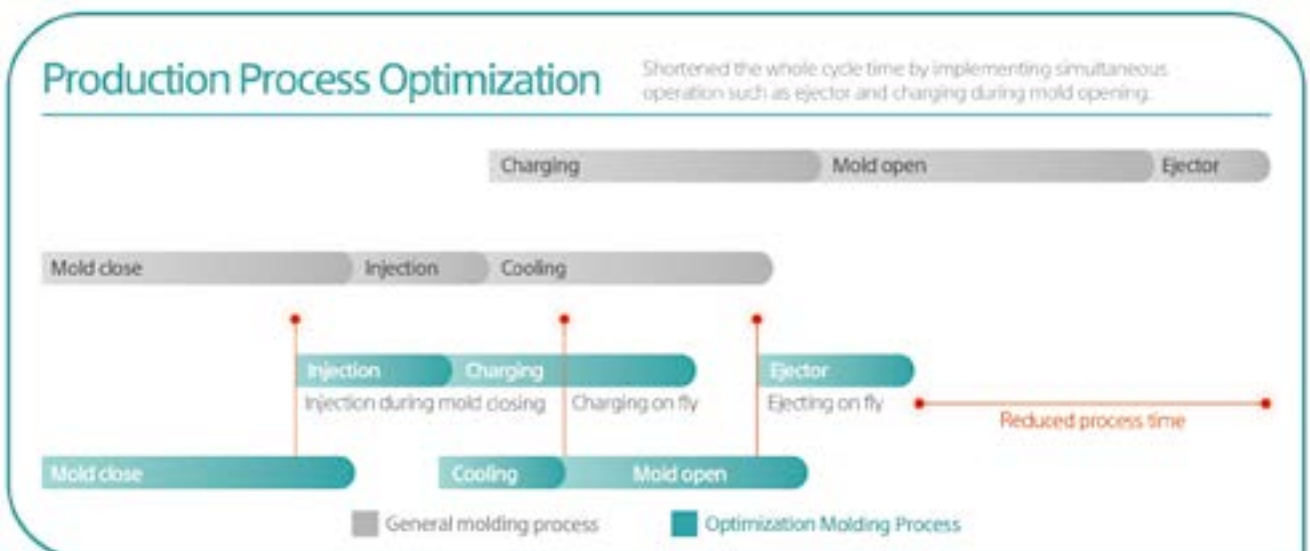
Servo systems precisely control the energy consumption of motors for each process and reduce unnecessary power and resource consumption to ease user's burden.



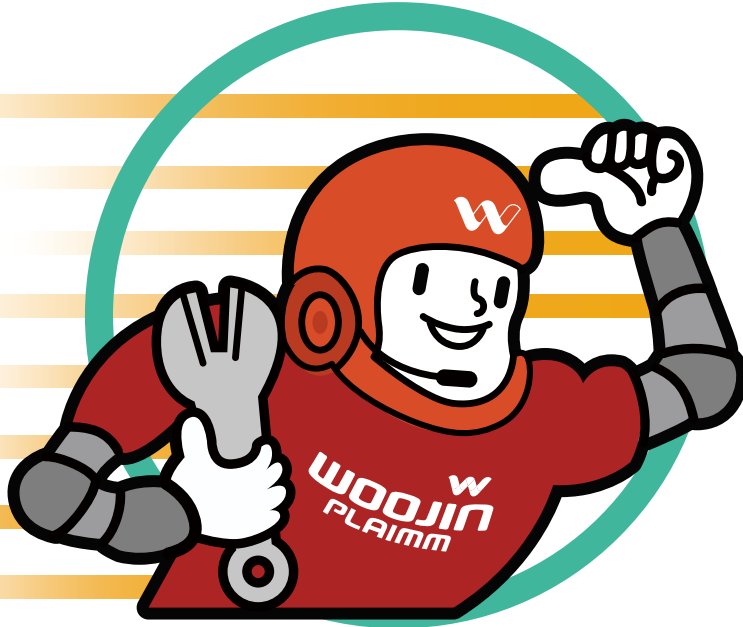
Production process optimization

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



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.

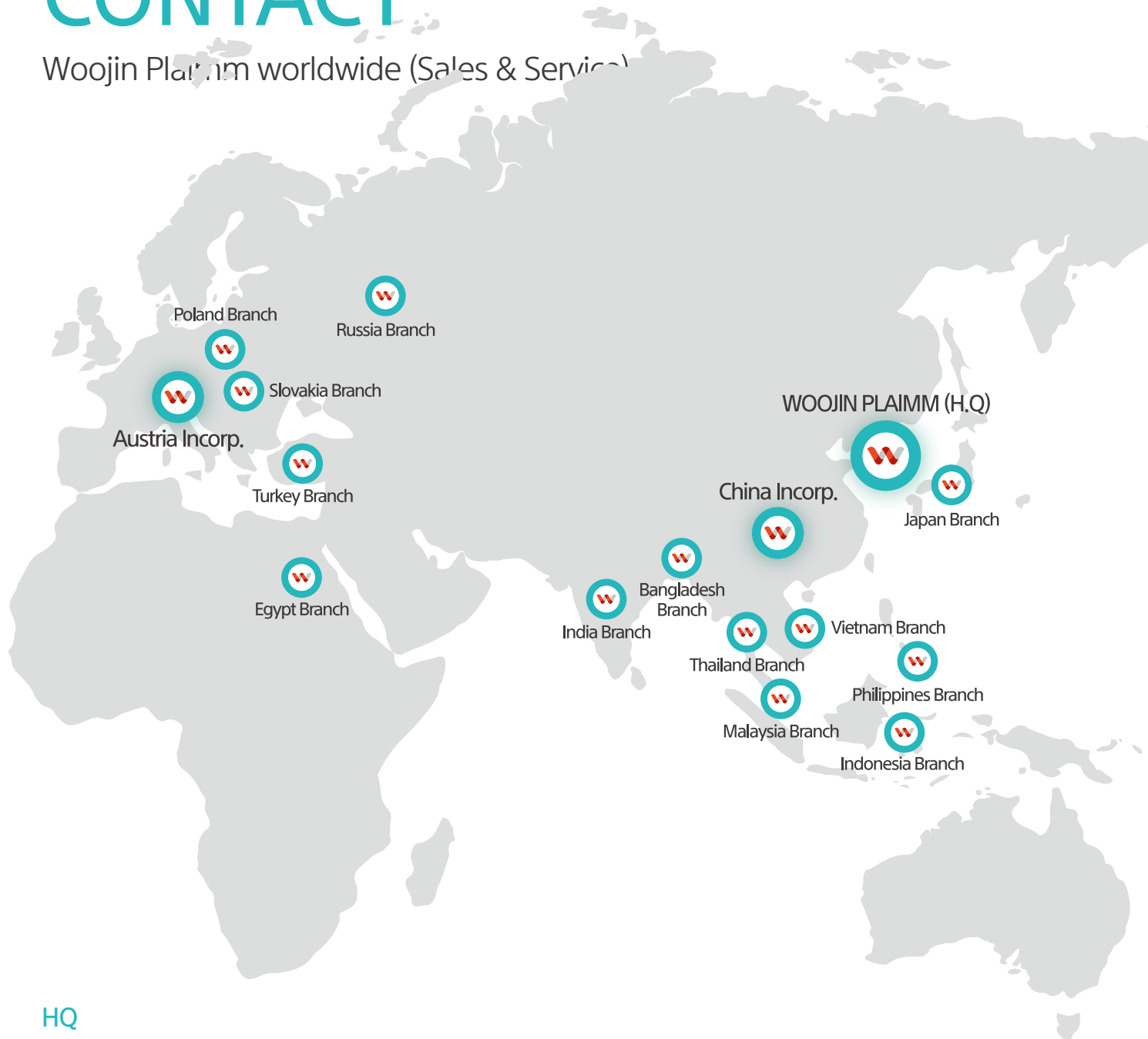
Service Center



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.

CONTACT

Woojin Plaimm worldwide (Sales & Service)



HQ

WOOJIN PLAIMM

100, woojinplaimm-ro, jangan-myeon, boeun-gun,
chungcheongbuk-do, Korea

T. +82. 43. 540. 9000

F. +82. 43. 543. 1420

E. info@wjpim.com

Sister companies

USA Chicago. +1. 312. 718. 6780
Incorp. Atlanta. +1. 334. 339. 2212
Detroit. +1. 224. 500. 5085
E. us@wjpim.com

Mexico
Incorp.

Monterrey. +52. 81. 1090. 8726
Queretaro. +52. 181. 1555. 4286
Tijuana. +52. 166. 4281. 3001
E. mx@wjpim.com

Austria
Incorp.

T. +43. 2256. 20413
E. office@woojin.at

China T. +86. 574. 8680. 6088
Incorp. E. cn@wjpim.com



Branch

Thailand Branch	Bangkok, +66. 2. 745. 4146 Chonburi, +66. 3. 313. 8848 E. thailand1@wjpim.com	Vietnam Branch	Hanoi, +84. 222. 3906. 797 Hochiminh, +84. 28. 3772. 0028 E. vn@wjpim.com	India Branch	Chennai, +91. 44. 4280. 9744 Anantapur, +91. 938. 406. 0148 E. in@wjpim.com
Malaysia Branch	Kuala Lumpur, +60. 12. 345. 3590 Johor Bahru, +60. 7. 212. 322 E. my@wjpim.com	Indonesia Branch	Jakarta, +62. 21. 8370. 1281 Cikarang, +62. 21. 8992. 4411 E. id@wjpim.com	Poland Branch	T. +48. 513. 211. 177 E. ploffice@wjpim.com
Russia Branch	T. +7. 495. 245. 0073 E. ru@wjpim.com	Bangladesh Branch	T. +88. 170. 852. 3802 E. bd@wjpim.com	Japan Branch	T. +81. 52. 919. 7775 E. jp@wjpim.com
Egypt Branch	T. +20. 10. 9796. 9733 E. eg@wjpim.com	Philippines Branch	T. +63. 2. 822. 2979 E. ph@wjpim.com	Turkey Branch	T. +90. 216. 290. 1483 E. tr@wjpim.com
Slovakia Branch	T. +421. 903. 207. 420 E. sk@wjpim.com				

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* This is an updated content as of June 25, 2021. (The specifications may differ from the actual selling device.)