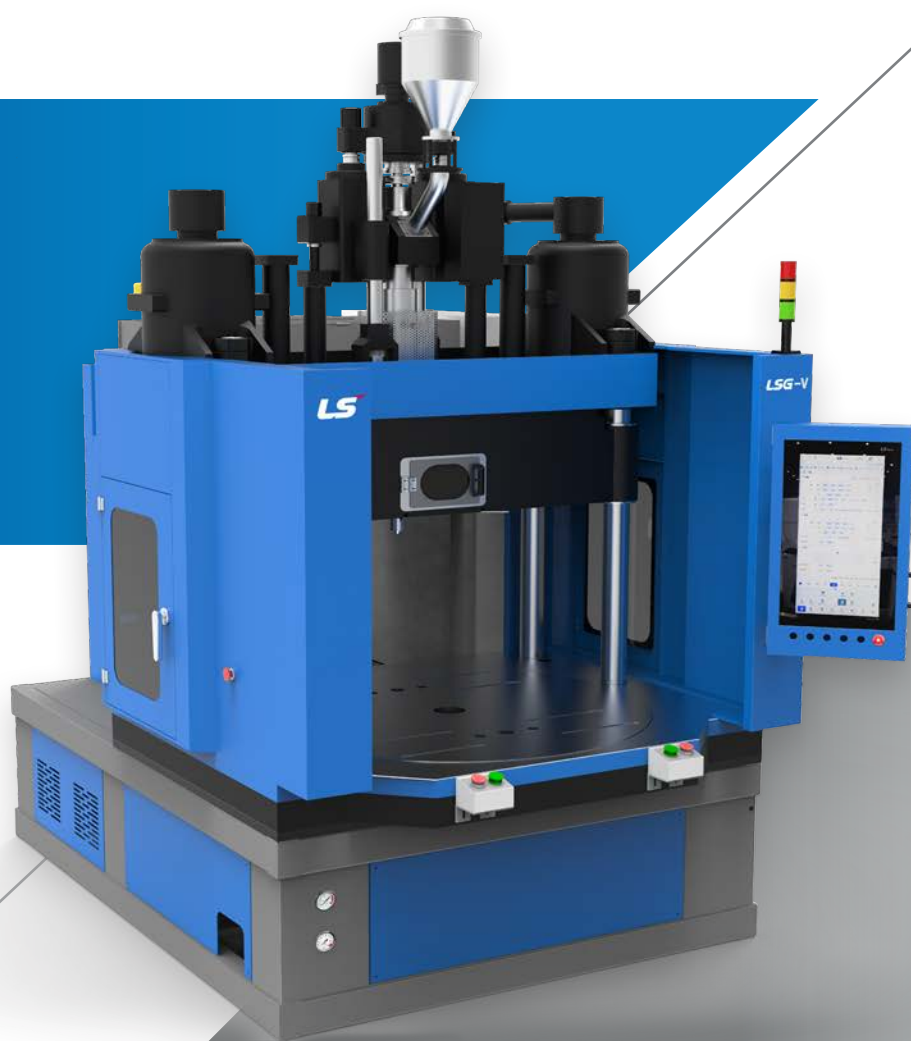


NEW LINE UP

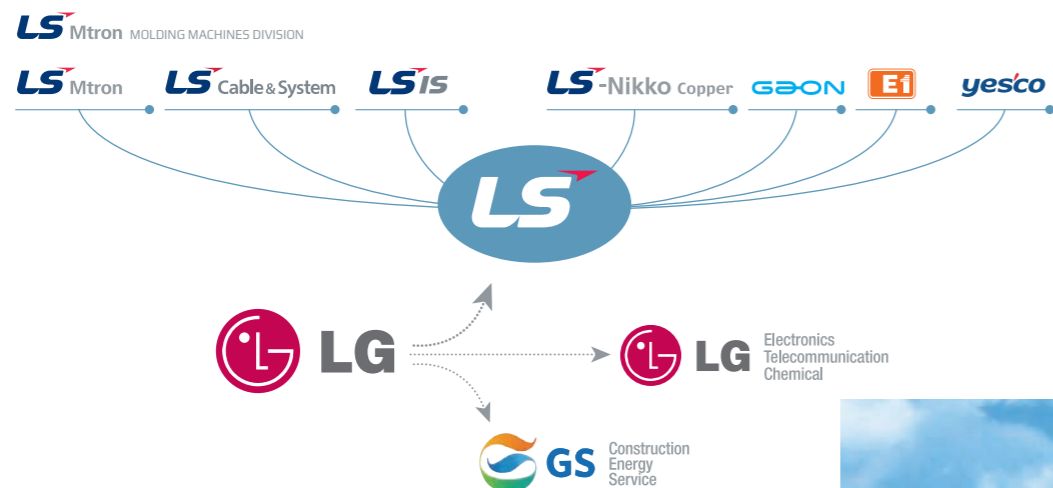
LSG-V SERIES



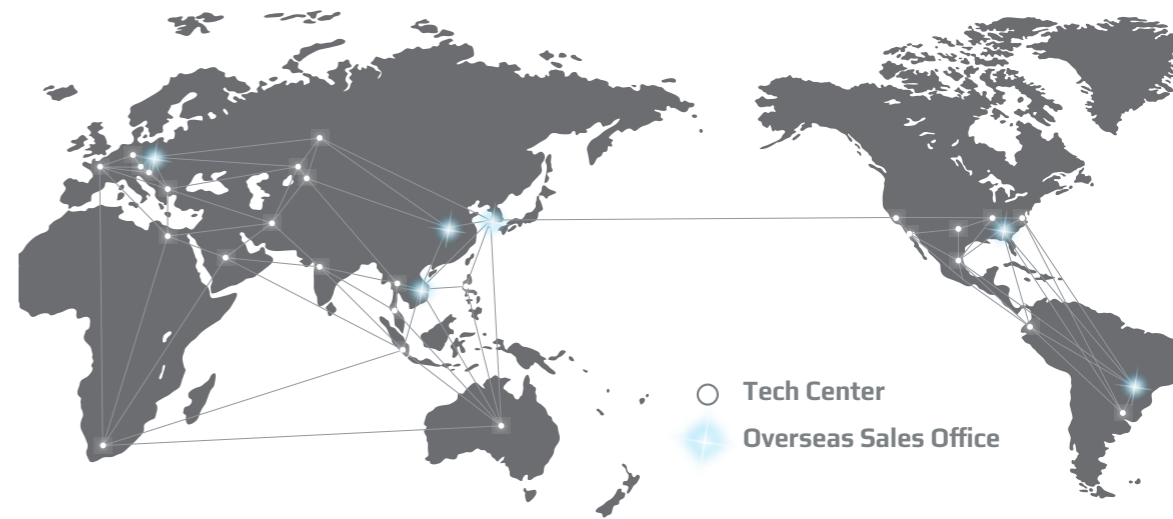
About LS Mtron

LS Mtron, a subsidiary of the LS Group, a conglomerate based in South Korea, employs over 25,000 people and reports annual revenues exceeding USD 30 billion, with profits around USD 1 billion. The Injection Molding Machines division of LS Mtron (LS IMM) was established in 1969 by the South Korean tech behemoth LG Corporation, known as one of the largest plastic molders globally. Initially created to meet its demand for injection molded parts for their renowned TVs, appliances, electronics, and other products, LS IMM now manufactures approximately 3,000 machines annually. These machines cater not only to LS and LG-related companies but also to a global clientele of molders.

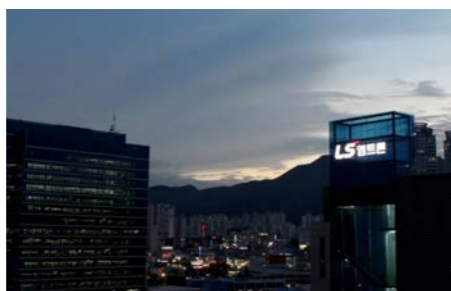
Originating with the invention of Korea's first Injection Molding Machines, LS IMM is celebrated for its commitment to quality, customer service, and rapid delivery times. Leveraging the collective capabilities of the LS Group's companies, LS IMM addresses several global supply chain challenges. This synergy enables LS IMM to offer custom molding machines to its customers in North America within just 100 days from casting to shipment, with the possibility of even quicker delivery times from its pre-stocked inventory.



Integrated ONE Solution Smart Machine for Industry 4.0 Delivering Value



INNOVATIVE TECHNOLOGY PARTNER



Hybrid Vertical Injection Molding Machine

LSG-V

40~660 (US Tons)

- 
 Fast Cycle Time
- 
 High Precision
- 
 Easy and Convenient Maintenance
- 
 Large Mold Weight Capacity
- 
 High Durability



LSG-V (Rotary Type)

Vertical Injection Type



LSG-VS (Shuttle Type)

Horizontal Injection Type



LSG-VT (Single Type)



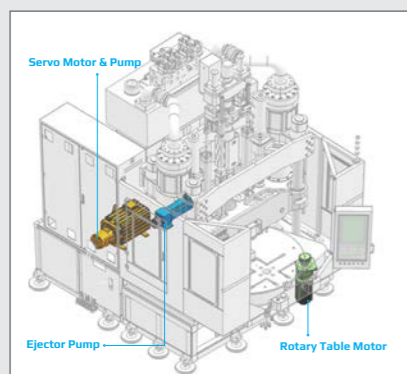
LSG-VTH (Single Type)



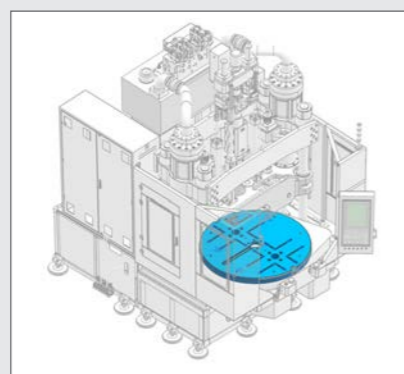
LSG-VSH (Shuttle Type)



LSG-VRH (Rotary Type)



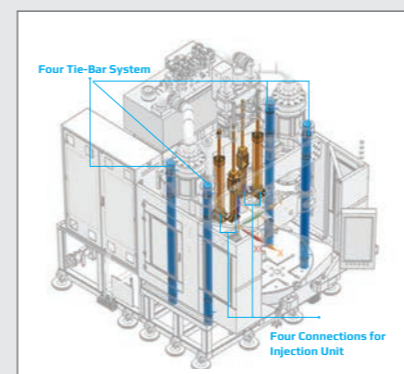
Super Precise and Energy Saving System for Improved Production



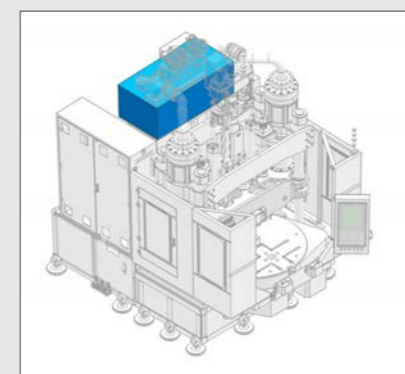
Easy Mold Mounting / Customer Selectable Options for Table



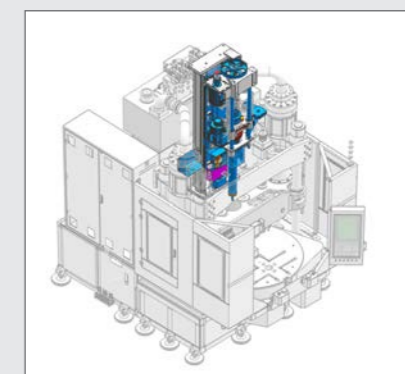
Precision KEBA Controller



Durable Build for Consistent Quality

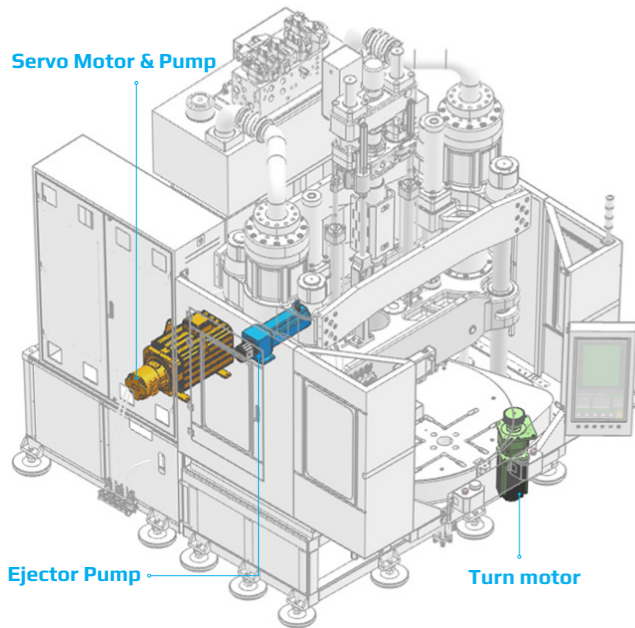


Easy Maintenance, Low Operating Cost



Electric Injection Unit Option

Super Precise Energy Saving System for Improved Production



Energy Saving System

Energy Saved With Efficient Servo Pump System (65~75%)



	Electric	Hydraulic	Hybrid
Feedback	○	△	○
Energy Saving	○	△	○
Maintenance Cost	Normal	Good	Good
Machine Cost	High	Low	Middle

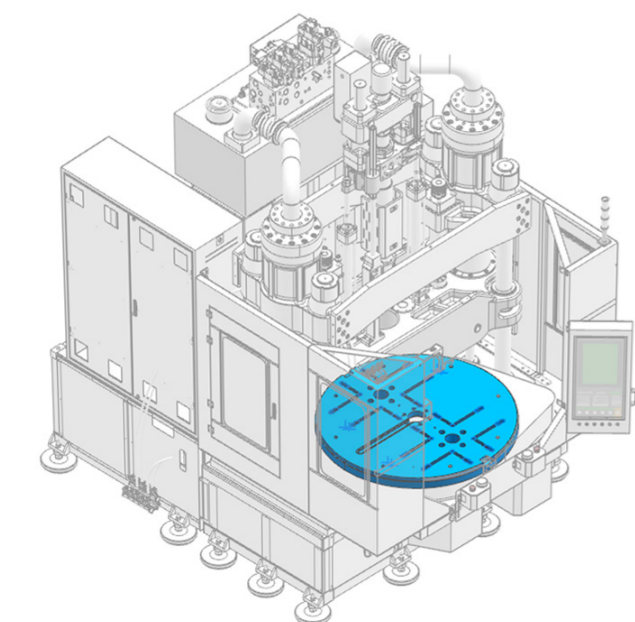
Improved Quality with High-Precision Movement

- The AC Servo Pump Motors are part of a Closed-Loop System with constant feedback to improve repeatability (deviation is less than 0.1%).
- The AC Servo Pump Motors are very quick with a 70ms response to to engage hydraulic motion.
- Extreme Precision and Low Noise Level are achieved through the AC Servo Pump Motor System.

Increase in Productivity

- Servo Pump Motors control the number of revolutions in the A/C servo motor to make precise movements reducing processing time.
- Processing time can be further reduced with the optional high-power Servo Motor to allow for simultaneous motion of the clamp and ejectors/injection unit.

Easy Installation, Customer Selectable Options



Compact Machine Size

Unit : Inch(mm)

DIV	250 TON		
	LS MTRON	Company A	Company B
Width	90.2 (2290)	98.5 (2500)	104.7 (2660)
Length	118.1 (3000)	165.4 (4200)	142.5 (3620)
Height	167 (4240)	173.2 (4440)	168.9 (4290)
US Ton (M Ton)	17.6 (16)	23.1 (21)	23.1 (21)

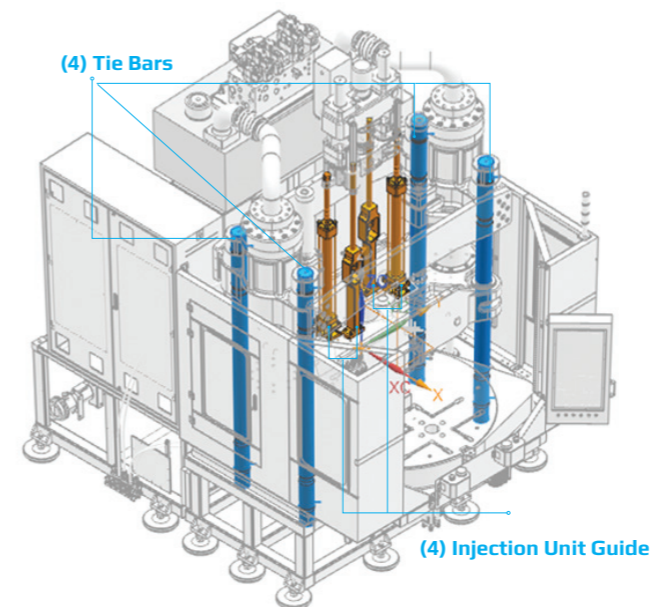
Rotary Table Sizes

Unit : mm

DIV	250 TON			
	Standard	Option	Company A	Company B
Table Size	Φ1600	Φ1800	Φ1600	Φ1800

- Footprint can be Minimized with Compact Machine Design
- Improved Space Utilization Leads to Improved Production

Durable Machine - Stable Quality



Tie-Bar Mechanism

Machine Durability and Produced Part Quality are Stabilized with the LSG-V Four Tie Bar Design. (Other Manufacturers have Two or Three Tie Bar Designs)

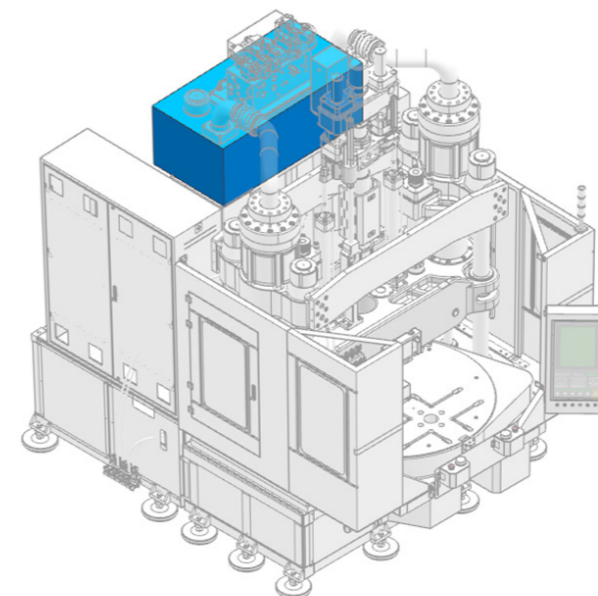
4-Point Guide for Injection Unit

Precise and Repeatable Injection Unit Movement Ensured with 4-Points of Contact Between the Injection and Clamp Units

Precise and High-Speed Injection Unit

Excellent Performance even with Difficult Resins

Easy Maintenance and Low Operating Cost



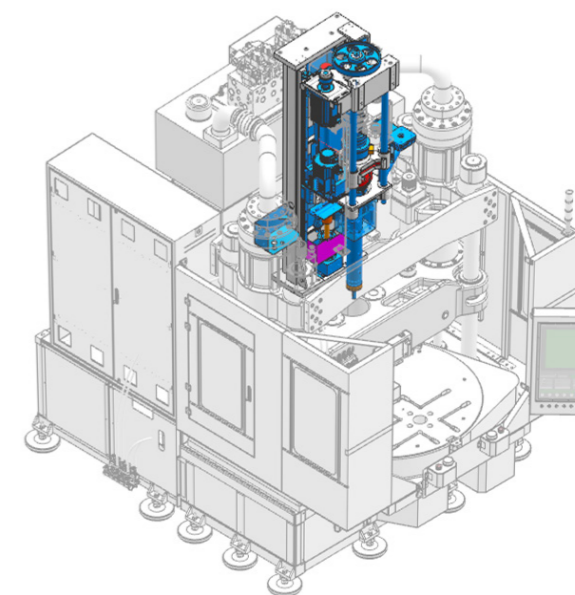
Hydraulic Oil Tank Capacity

Unit : gal(l)

DIV	250 TON		
	LS MTRON	Company A	Company B
Operating Oil	92.5 (350)	174.4 (660)	179.7 (680)

Operating Costs Reduced by Minimizing Required Cooling Water, Size of Cooling Water Tank and Size of Hydraulic Lines

Electric Injection Unit Option



- Minimize Part Defects with High-Precision Electric Injection Unit

The LS Vertical Machine Line-Up Can Meet the Various Needs and Requirements of Today's Molders

Customers can Choose the Best Configuration for Part Production and Space Utilization

Vertical Injection Type



LSG VT (Single Type)



LSG VS (Shuttle Type)

Horizontal Injection Type



LSG VTH (Single Type)



LSG VSH (Shuttle Type)



LSG VRH (Rotary Type)

Control System (18.5" MULTI-TOUCH KEBA CONTROLLER)

User Programming Sequence : Flexible Functionality and Easy Modification



- Provides Operational Convenience for Users with Larger Screen Size
- Convenient Operation with Responsive Color Panel



- Easy and Various Graphic Functions
- Real-Time Data Adjustment and Operation
- Function to Search for Data on Molds



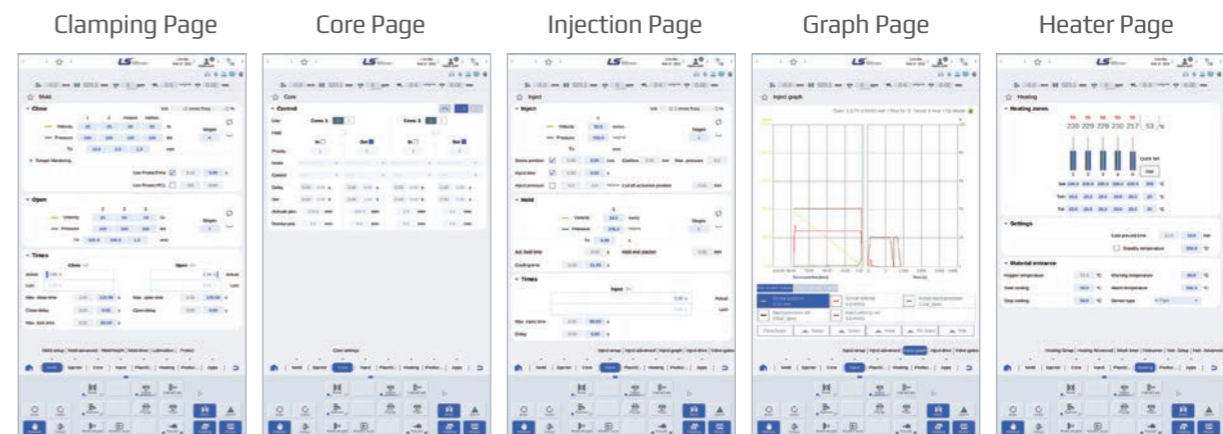
- Easy to Analyze Cycles with Monitoring Screen
- Easy to Convert Units
- Memo Function Added: Possible to Make Notes and Associate Them with Mold Information



- Possible to Monitor and Communicate with Peripheral Devices
- Possible to Monitor I/O and Turn ON/OFF the Forced Output on the Touch Screen



- Easy to Navigate User Interface
- User can Change the Sequence of Cycles
- Mix and Match Units (psi, inch, mm, bar, etc.)
- Multi-Language Selection
- Multi-Level, Customizable Password Control for Each User



Benefits to Customers:

- Easy to Analyze and Monitor the Injection Molding Process with the Improved User Interface
- Easy to Maintain and Change the User's Sequence
- Flexible Response to Customer's Needs

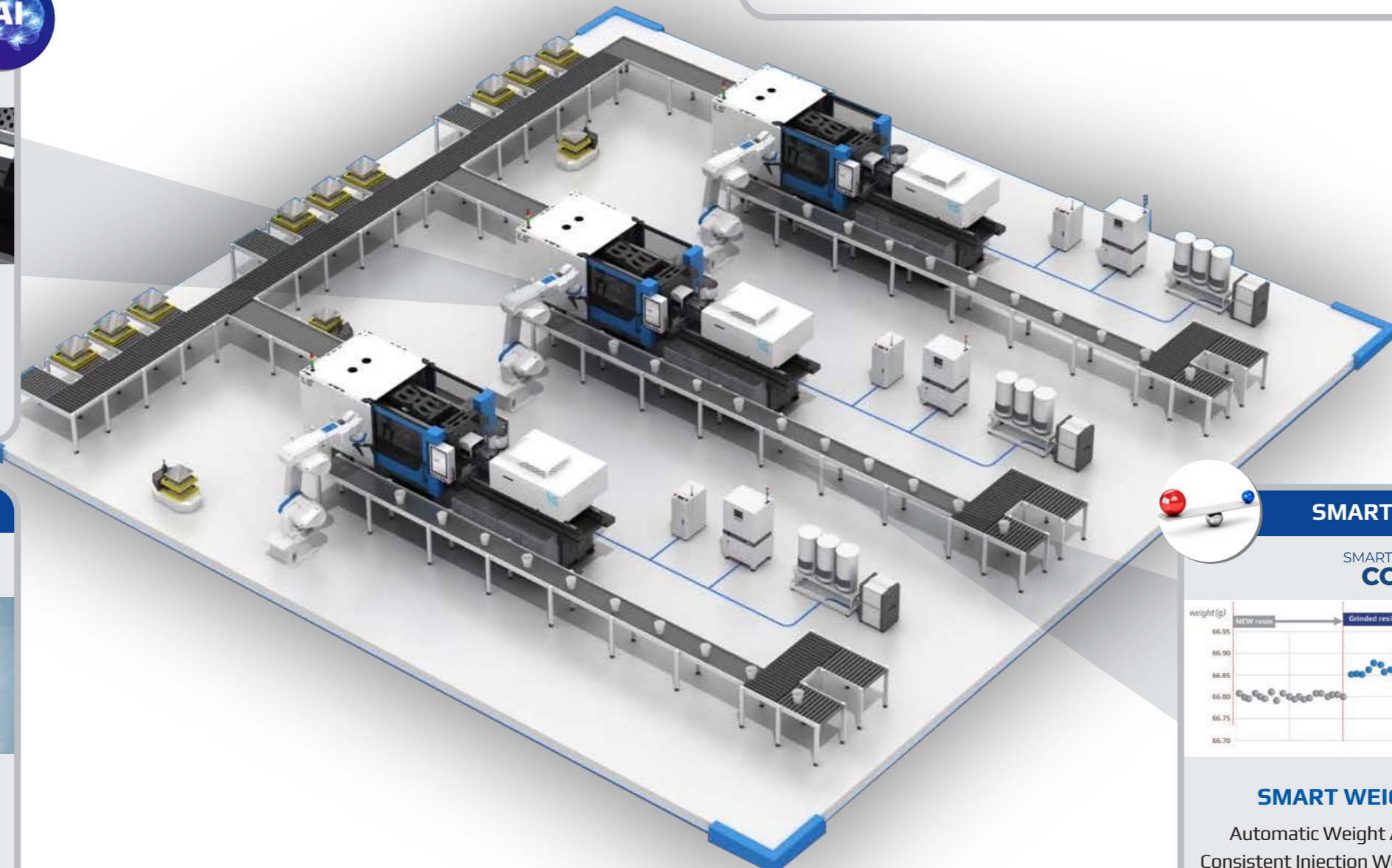
CSI 4.0*

Connected Smart Injection 4.0 option

LS-Mtron's CSI 4.0 is a solution that can help customers quickly respond to the 4th industrial revolution and digital transformation. The solution starts with accurate data collection, transforming this data into meaningful information, and using data processing technology to improve processes through intelligent applications of AI.

SMART PRODUCTION

<p>Smart Monitoring</p> <p>Smart Production Control</p> <p>Smart Mold Recognition</p> <p>Smart Equipment Control</p> <p>Smart Data interface</p>	<p>24/7 Mobile Access From Anywhere</p> <p>Real-Time Monitoring Control</p> <p>RFID check and Immediate Upload of Molding Parameters via QR Code</p> <p>Real-time Monitoring</p> <p>Data Transfer to Customer Monitoring Systems</p>
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AI

AI Injection System

AI Molding Assistant

AI Weight Control

Smart Injection Molding Machine

SMART SERVICE

SMART REMOTE SERVICE

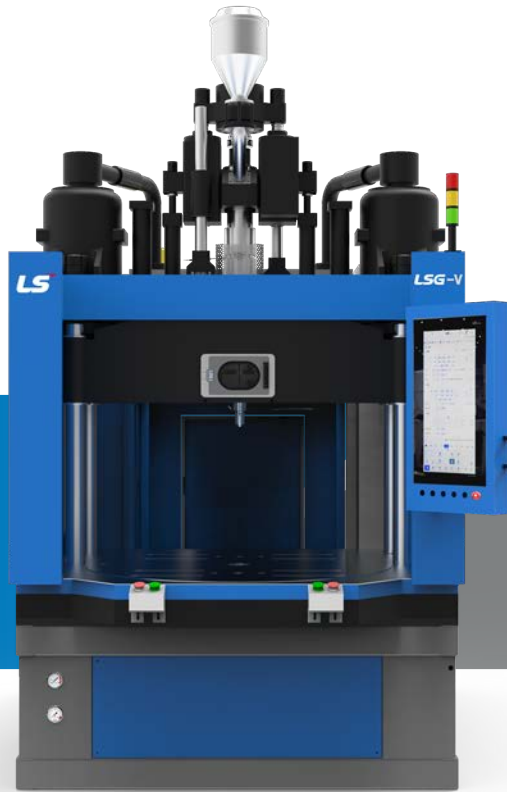
Remotely Monitor

Access and Troubleshoot Machines in Use at Customer Sites

SMART MACHINE

SMART WEIGHT CONTROL

Automatic Weight Adjustment Maintains Consistent Injection Weight even when Blending with Recycled Resin



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