

Hitachi Agrees to Acquire JR Automation a Robotic System Integrator in the US

Hitachi will be entering the high-growth robotic SI business in North America and accelerate the global development of its digital solution business, which connects the workplace and management, by acquiring a customer base, technology, and know-how in the Operational Technology (OT) domain

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3. Summary

Hitachi to acquire a leading robotic Sler for approx. 158.2 billion yen (US\$1,425 million)							
HIT Inspire	ACHI e the Next	×	JR AUTOMATION"				
Company name	JR Automation Technologies, LLC						
Sales	US\$ 603 million (approx. 67 billion yen) (consolidated: 2018)						
Head Office	Holland, MI (US)						
CEO	Bryan Jones						
Established	1980	Employees	Approx. 2,000				
Main business	Robotic SI business (building production lines and logistics systems)						

1-2. Robotic Solution of JR Automation



Provide diverse robotic solutions in a wide range of industries

No.	Industry	Solution example (Photos are not from a	actual project sites)
1	Automotive	 Door panel interior assembly and welding line Truck bed sheet metal welding line 	
2	Aerospace	 Assembly line including rivet connection 	
3	E-Commerce (Logistics)	 Palletizing[*] and picking system utilizing robots and rack equipment 	
4	Medical device	 Plastic IV^{**} pack manufacturing equipment 	

* Positioning and fixing units and containers on pallets at the end of a production line

** Intravenous drip

3

JR Automation has achieved <u>over 20% revenue growth</u> in the last 3 years (CAGR)*, and successfully built up a strong customer base including top players in each industry

① Strong value proposition for various lines

Automotive Conveyor system, welding, and assembly

Aerospace Rivet connection

E-Commerce Picking and palletizing

Rich track records and expertise

(2) Implementation capability assuring high quality

Aerospace

Medical device

High quality to meet the standard of industry requirements

Strong engineering and line-building capability

③ Strong and loyal customer base

Build good relationship with promising customers

Over 90% repeat customer rate

1-4. Business Opportunities for Growth

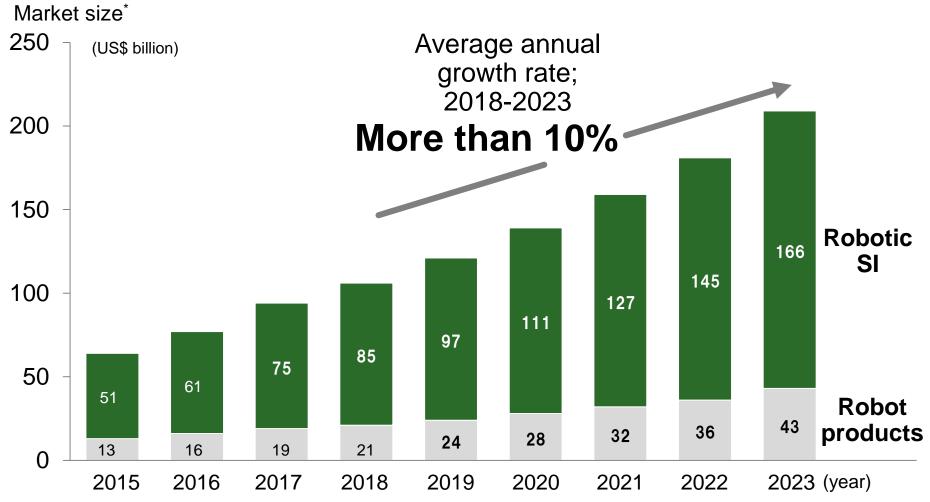


Robotic SI market expands with high growth rate, JR Automation's target industries have huge opportunities

		Growth drivers	Business opportunities
	Automotive	 Shift to electric vehicles Increasing labor costs 	Strong demand for automation
Global robot-based automation market CAGR (2018-2023)	Aerospace	 Expanding aircraft market Weight reduction with new material 	Increasing the number of Tier1-3 suppliers
More than 10%*	E-Commerce	 High-frequency deliveries, increasing number of warehouses Labor shortage 	Automation of entire process (Picking, etc.)
	Medical device	Medical device innovations	Compliance with strict FDA standards

*Source: Hitachi estimate based on IFR2017 report

Robotic SI market continues to expand by realizing complex automation system with a lot of robots



* Source: Hitachi estimate based on IFR2017 report



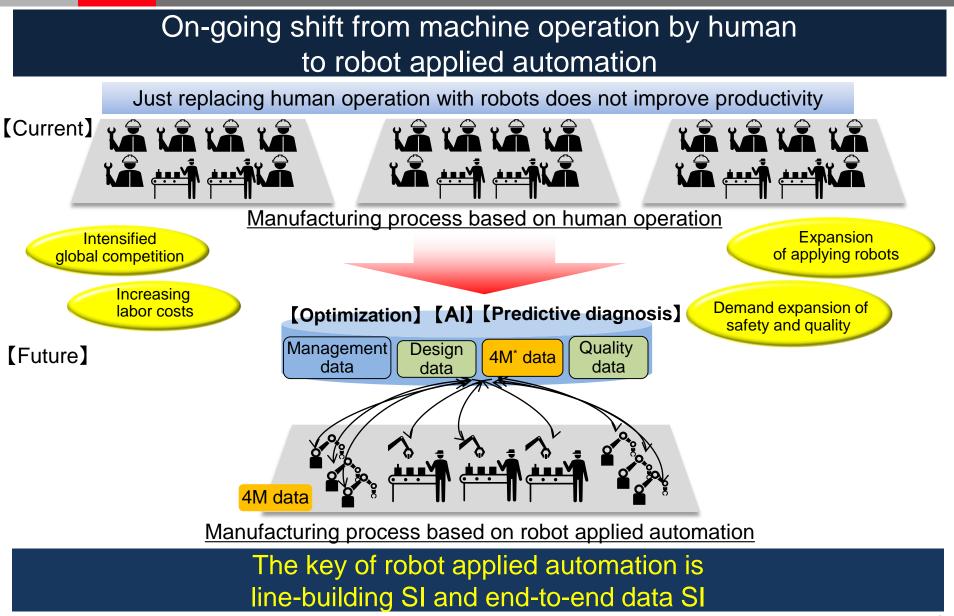
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2-1. Manufacturing Trends

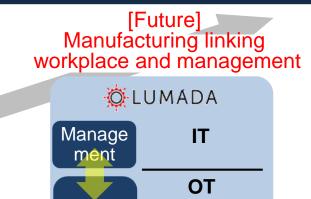


* 4M: huMan, Machine, Material, and Method

2-2. Manufacturing Evolution Hitachi Will Provide HITACHI Inspire the Next

Through optimizing manufacturing by robot applied automation, Hitachi to contribute to business value improvement for customers

JR AUTOMATION[®]



oboti

Products

Workplace

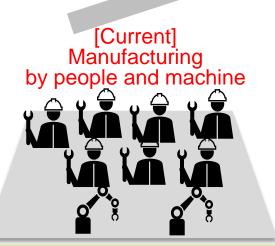
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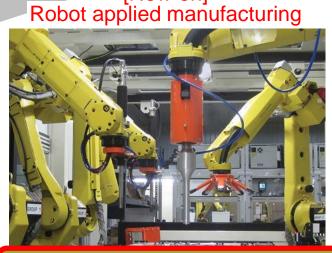
Machine

Material

Method

4M data





[Now-on]

Line-building SI and end-to-end data SI for robot applied automation

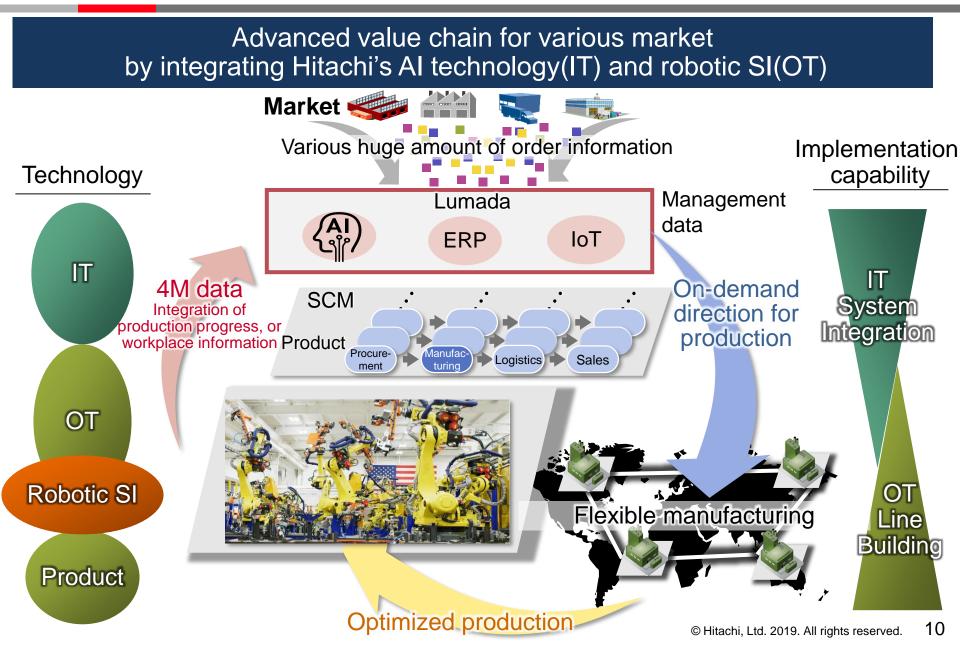
Field operation capability accumulated with people

9

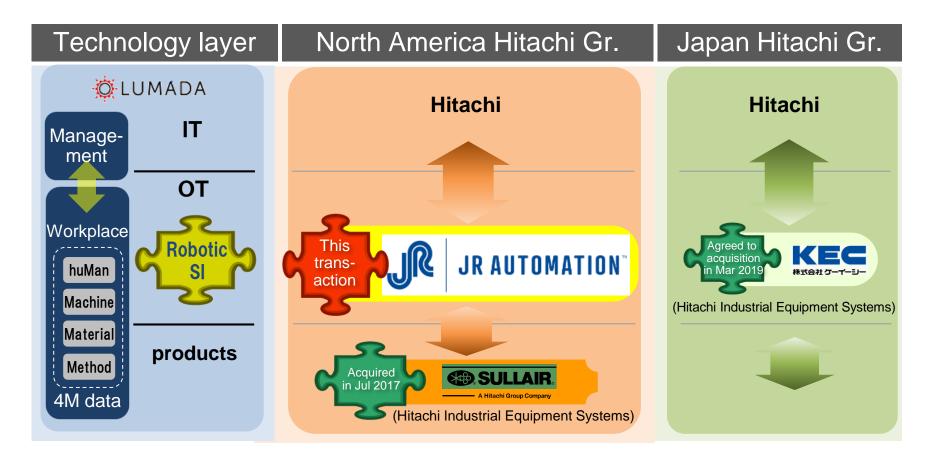
Seamless collaboration between workplace and management, optimization of management efficiency

2-3. Realize Business Environment Linking Workplace and Management





Hitachi will acquire the two companies in the US and Japan, and take advantage of acquired customer base and expertise in order to expand robotic SI business globally



2-5. Synergy

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JR Automation and Hitachi Group mutually leverage each customer base and resource

Sales synergy

1 Cross-selling

Realize cross-selling by mutually leveraging a customer base,

solutions and products

2 Expand JR Automation's after market business

Strengthen after service utilizing Hitachi's platform and AI technology

3 Expand JR Automation's SI in E-Commerce

Enhance robotic SI by Hitachi's control technology and Lumada

Cost synergy

④ Establish efficient operation

Leverage Hitachi's management and resources for efficient operation

(5) Realize joint procurement

Reduce procurement costs by joint activity of Hitachi Gr. and JR Automation



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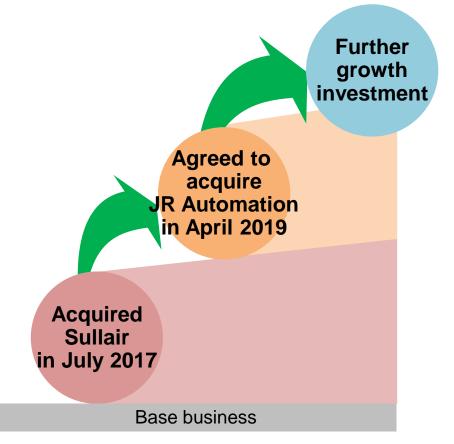
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3-1. Accelerate North America Business Growth in Hitachi Industry Sector



Strengthen North America business by M&A

Realize more than 130B yen North America business in Industry Sector Consider investment for further growth



Key points for growth investment

 Realize business environment linking workplace and management

2 Expand recurring business (after service, etc.)

3 Strengthen products with IoT capability

1

Agreed to acquire JR Automation as our global growth strategy

- Strengthen North American business base of Hitachi Industry Sector through the acquisition of JR Automation after Sullair acquisition
- 2 Achieve growth opportunity in the robotic SI market with high growth rate (CAGR: over 10%) ⇒Industry Sector's North American Sales target is more than 130 billion yen
- Provide new value for customers' management and
 entire business by seamlessly linking workplace and management

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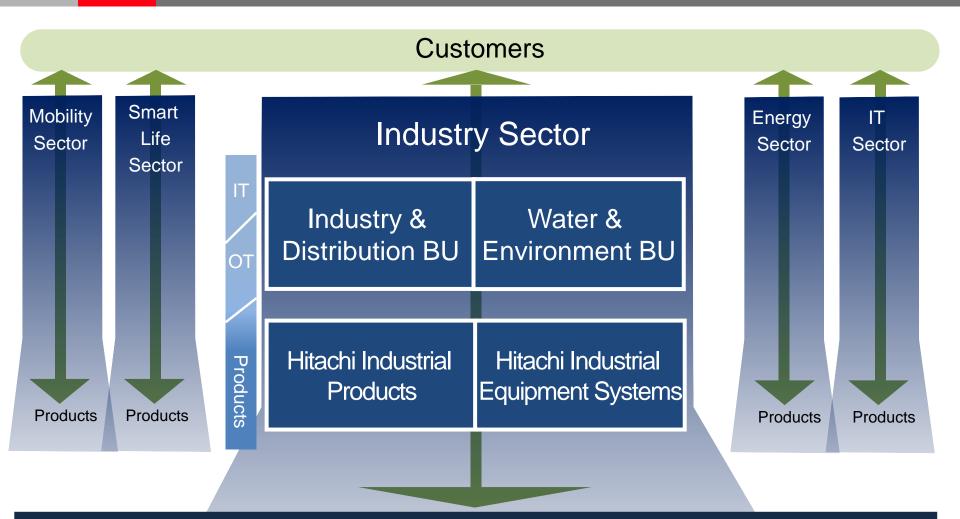


Appendix.

About Industry Sector of Hitachi

Appendix1. Industry Sector: Organization Structure





Vision: Best Solution Partner for industrial customers Leverage strengths in Products, OT, and IT in the rollout of Lumada Solutions

Appendix2. Industry Sector's Business Areas and Acquired Area



