

Manufacturing Solutions Business Strategy

June 10, 2021

Seiko Epson Corporation
Manufacturing Solutions
Operations Division



Disclaimer regarding forward-looking statements

The foregoing statements regarding future results reflect the Company's expectations based on information available at the time of announcement. The information contains certain forward-looking statements that are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Such risks and uncertainties include, but are not limited to, the competitive environment, market trends, general economic conditions, technological changes, exchange rate fluctuations and our ability to continue to timely introduce new products and services.

Note regarding business profit

Business profit is calculated by deducting cost of sales and SGA expenses from revenue. Although not defined in the statement of consolidated comprehensive income, this indicator is very similar to the concept of operating income under J-GAAP. Epson will present this information as a reference, as the Company believes users of financial statements will find it useful when evaluating Epson's financial performance.

Numerical values presented herein

Numbers are rounded down to the unit indicated. Percentages are rounded off to one decimal place. Years mentioned in these materials are fiscal years unless otherwise indicated.

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- (1) Achieving the Epson 25 Renewed Corporate Vision (announced in March 2021)
- (2) Manufacturing innovation

2. Growth strategy

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- (3) Issues and actions
- (4) Financial targets

3. Examples of initiatives



1. Goals

- (1) Achieving the Epson 25 Renewed Corporate Vision (announced in March 2021)
- (2) Manufacturing innovation





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size

Strengths

actions

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of initiative Efficient, Compact,

and Precision Technologies

Micro Piezo

Microdisplay

crystal devices

technology

Ultra-precision processing

¥1,040.9 billion

Financial A rating (R&I)

Number of iniget printer patents

field and laid open to the public

intelectual No.1"

(18 companies in Japan and

in Japan and the U.S.

Sensing

Robotics Semiconductors and

Financial

Manufacturing

Intellectua

Social and

Dry fiber technology

2050 Environmental Vision 2050

2030 SDGs

2025 Epson 25 Renewed

Reducing environmental impacts

Improving work environments

Connecting a decentralized society

Improving the quality of infrastructure. education. and services

Lifestyle diversification

Achieve sustainability in a circular economy

> Advance the frontiers of industry

Improve the quality of life

governance

Balance of property, Improve the quality plant and equipment, of products and and intangible assets ¥389.5 billion services

> Strengthen supply chain management

Total employees Respect human rights and promote 75,608 diversity Companies in the Epson Group 85 Induting Selections Corp. Strengthen

67 overseas)

Limited netural resources (e.g., energy & materials) Value creation strategy

DX & open innovation

Office & home printing innovation

Commercial & industrial printing innovation

Manufacturing innovation

Visual innovation

Lifestyle innovation

Microdevices Supporting the five areas of innovation

> Value creation platforms

Reduce environmental impacts and advances in distributed printing

Lead the digitalization of printing to reduce environmental impacts and increase work productivity

highly productive and flexible production systems

and services to support learning. working, and lifestyles.

Enrich diverse lifestyles

Contribute to the development of a smart society

Office & home printing

Outputs

 Office printing Home printing

Commercial & industrial printing

 Commercial & industrial printing Printhead sales

Manufacturing

Production systems

Visual

 Projection Lifestyle

 Sensing Watches

Microdevices

FY2025 financial targets

ROIC*3 10%

11% or more or more









Sustainability

and

enriched

communities



























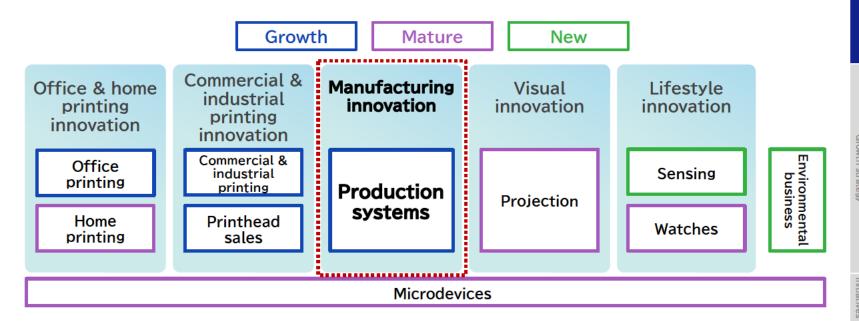


- •1 The 2019 calendar year ranking in number of patents laid open to the public per Epson research
- 12 Business profit / Revenue
- 13 Return On Invested Capital

Positioning of manufacturing innovation



- Positioned as a growth area in our business portfolio to achieve the goals of our Epson 25 Renewed Corporate Vision
- We will invest and spend in the near term to ensure we take advantage of the significant growth potential



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Goal

Size

Strengths

actions

example of Innovate manufacturing by co-creating flexible high-throughput production systems that reduce environmental impacts



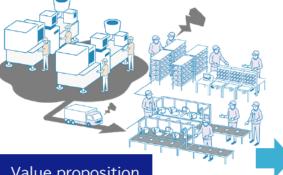
Achieve sustainability in a circular economy



Advance the frontiers of industry

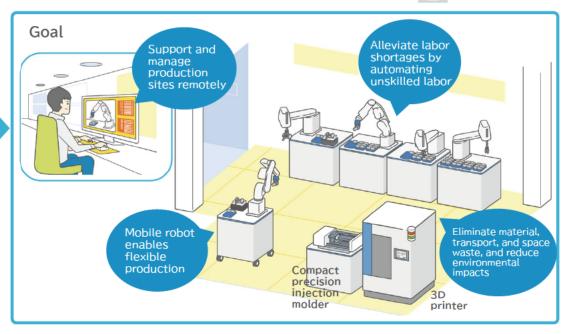


Improve quality of



Value proposition

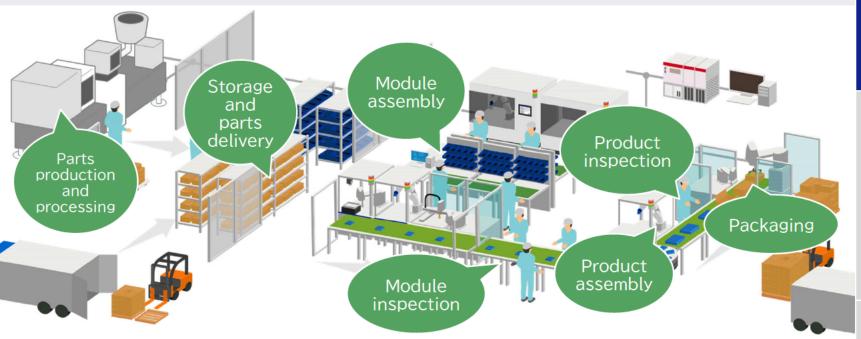
- Accommodate low volume, high mix production
- Alleviate labor shortages
- Distributed production, and local production for local consumption
- Reduce environmental impacts and close the resource loop
- Save space
- Reduce burden for system building



Typical factory process flow



- Most products are delivered to customers after going through a variety of processes
- Factories operate with many types of industrial equipment



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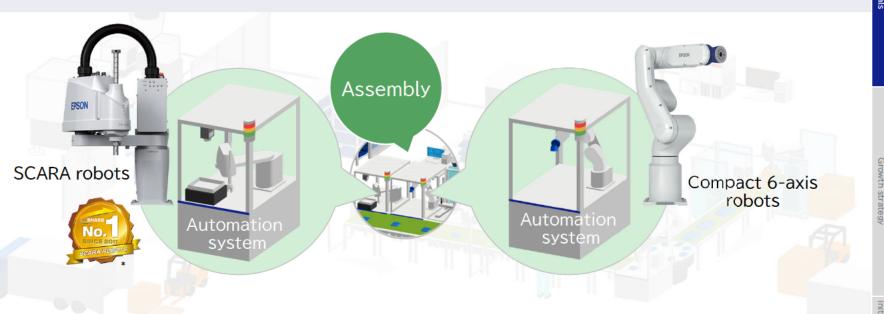
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Main focus area: Previously



- Robots are important equipment often incorporated in automated systems used in assembly processes
- Epson owns the top share* of the global market for SCARA robots

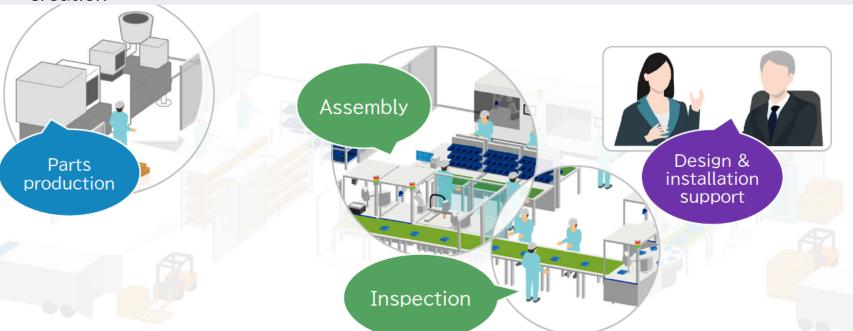


^{*}Epson was No. 1 in industrial SCARA robot unit shipments from 2011 through 2020. (Source: Fuji Kejzaj "2012-2021 Worldwide Robot Market and Future Outlook").

Main focus area: Current and future



- Expand into parts production and inspection processes in addition to the current assembly business
- Build new business around design and installation support, including production line creation



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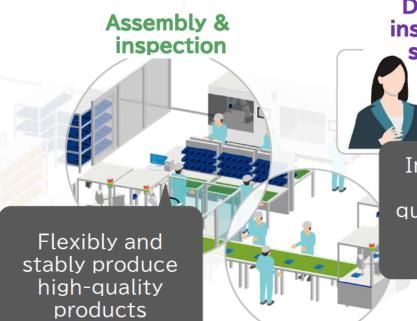
Customer expectations

Customers are seeking factory innovations that allow them to respond to things such as environmental issues and changes in consumer trends

Parts production



Mitigate environmental impacts while also improving economic **feasibility**



Design & installation support

Introduce new processes quickly and with minimal investment

What Epson provides



Mitigate environmental impacts, improve work environments, and respond to diverse customer needs

Parts production



Assembly & inspection



environments

Design & installation support

Together with partners, propose manufacturing equipment that utilizes expertise in production for precision and information products

Parts production with lower environmental impact

Molding machines that reduces material. electricity, transport, and space waste

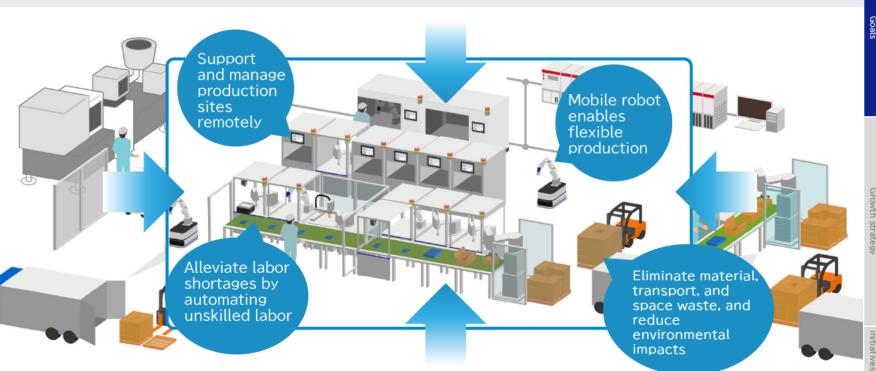
Highly flexible and productive production systems

Versatile robots. peripheral equipment, and software that automate manual tasks Reduce the burden for building production systems

What Epson provides



Increase personnel and space productivity and reduce environmental impacts by driving innovations in manufacturing



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Reason for name change



Old

Robotics innovation

Sell robots (sell technologically superior products)

New

Manufacturing innovation

Innovate manufacturing by answering the expectations of customers in factories



2. Growth strategy

- (1) Market size
- (2) Epson's strengths
- (3) Issues and actions
- (4) Financial targets

Market size



Epson will target the *compact* segment of the market

Parts production

Molders

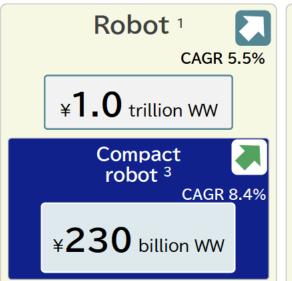
CAGR 2.8%

¥1.7 trillion WW

Compact precision injection molder ² **CAGR 4.9%**

¥110 billion WW

Assembly & inspection



Design & installation support

Engineering



CAGR 7.0%

¥2.1 trillion WW

For 3C & beginners **CAGR 7.0%**

¥780 billion WW

*System design & service (including machines)

Monetary amounts are for 2020, CAGR is for 2020-2025

¹ Including peripheral equipment (hardware that connects to robots) ² Mold clamping force 40tons and under ³ Payloads up to 20 kg

Differentiation backed by efficient, compact and precision technologies

- High-speed, high-precision robots and sensing devices
- Compact, energy efficient, high-precision flat screw

Volume production expertise in compact, precision assembly factories

- Ability to design equipment that delivers high quality and high productivity
- Ability to develop apps and methods that automate complex processing

Strengths

Global sales and service network

- Sales companies located in major industrial regions
- Building relationships of trust with talented dealers and SIers, mainly in 3C markets

Parts production



- Reduce material, energy, and space waste
- Efficient high-mix production support
- High-quality production at low cost

Assembly & inspection







Customer value





- Labor shortage alleviation and distributed production
- Higher quality and productivity
- Higher utilization rate and earlier trouble management

Design & installation support

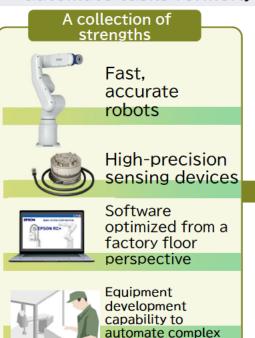




- Rapid machine installation
- Production process innovations

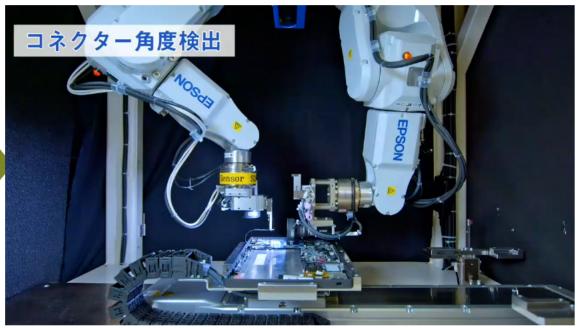
Epson's strengths 1 | Strong technology and volume production expertise

 Our strengths are efficient, compact and precision technologies and mass production expertise in compact precision-assembly factories. These strengths enable us to automate tasks formerly only performed by humans



processes

Use of sensing devices enables insertion of soft and flexible items like flexible flat cables



*Caution: Several scenes have heavy flashes of sensor lighting

- Our sales and service network spans the globe
- Leverage the advantage of owning the No. 1 share in the global SCARA robot market along with talented dealers and SIers to meet diverse customer expectations in assembly processes and in other parts production and inspection processes



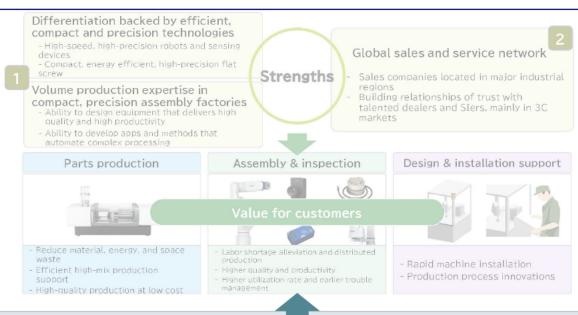
- Manufacturing Solutions Operations Division
- Manufacturing Solutions sales sites

Epson do Brasil Industria e Comercio. Ltda.

No. 1 in industrial SCARA robot unit shipments from 2011 through 2020. (Source: Fuji Keizai "2012-2021 Worldwide Robot Market and Future Outlook"

Issues and actions





Issues

Issues

Response to customer needs not fast enough Inadequate standardization of parts, slower cost reductions



Data is scattered and underutilized Proposals are based on personal skill Equipment support is slow and reactive





Assembly & inspection



Parts Design & production installation Assembly & support inspection

Development of next-generation platforms

Rapid response to customer needs and greater cost competitiveness

Strengthening DX Infrastructure Strengthening relationships with customers

Rapid response to customer needs and greater cost competitiveness

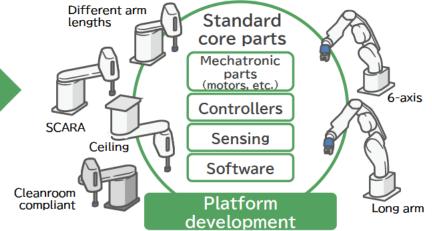
inspection

Design &

Current robot lineup



Next-generation Different arm



* More shared, standardized core parts will facilitate lineup expansion.



Response to customer needs not fast enough

Inadequate standardization of parts, slowing cost reductions



Rapid response to customer needs with standardized platforms

Strengthen cost competitiveness by using standard parts

Strengthening DX infrastructure

Strengthening relationships with customers

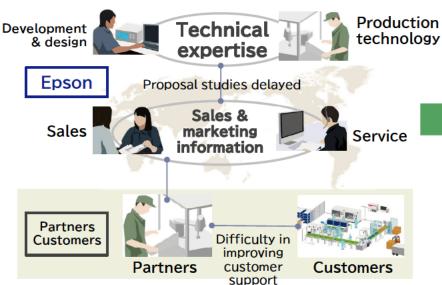
Parts production

Assembly & inspection

Design & installation support

Production









Data is scattered and underutilized Proposals are based on personal skill Equipment support is slow and reactive



Rapid response by centralizing data Improve proposals by sharing technical expertise

Provide early support by monitoring equipment operation

Differentiation backed by efficient. compact and precision technologies

 High-speed, high-precision robots and sensing devices

Compact, energy efficient, high-precision flat screw

Volume production expertise in compact, precision assembly factories - Ability to design equipment that delivers high

- quality and high productivity
- Ability to develop apps and methods that automate complex processing

Global sales and service network

- Sales companies located in major industrial regions
- Building relationships of trust with talented dealers and SIers, mainly in 3C markets

Strengths

Assembly & inspection



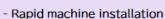
Design & installation support



- Reduce material, energy, and space waste

Parts production

- Efficient high-mix production support
- High-quality production at low cost
- Labor shortage alleviation and distributed production
- Higher quality and productivity
- Higher utilization rate and earlier trouble management



- Production process innovations



Response to customer needs not fast enough

Inadequate standardization of parts. slower cost reductions



Data is scattered and underutilized Proposals are based on personal skill Equipment support is slow and reactive



Design & installation support

Development of next-generation platforms

Rapid response to customer needs and greater cost competitiveness

Strengthening DX Infrastructure Strengthening relationships with customers

Innovate manufacturing by answering the expectations of customers in factories

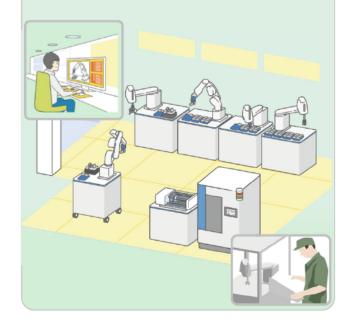




Financial targets



Innovate manufacturing by answering the expectations of customers in factories



FY2020 to FY2025 revenue CAGR +15% or better



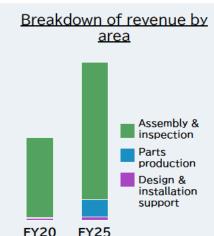


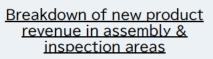
Expand the business footprint



Build next-generation platforms to

- rapidly respond to customer needs
- increase cost competitiveness







Examples of initiatives

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3. Examples of initiatives

Innovate manufacturing by answering the expectations of customers in factories

Build production line in Epson to accumulate knowledge and experience





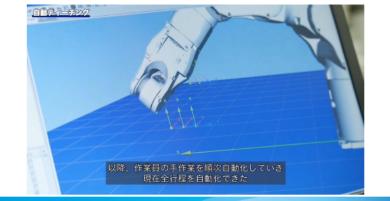




• Understand customer expectations and propose solutions







ED YOUR VISION

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Targets

Examples of initiatives

Complete multiple processes in the factory with a single system







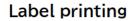


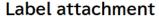




Print directly on 3D objects by combining inkjet printheads and robots







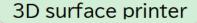
Finished



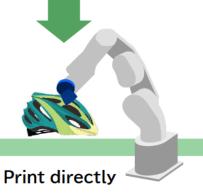














Finished





Examples of initiatives

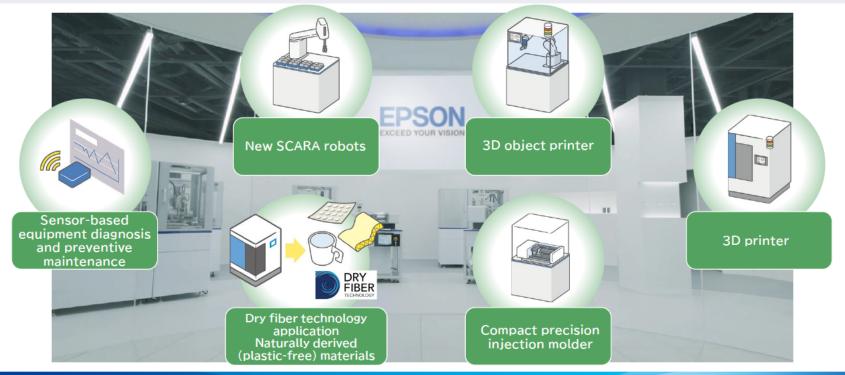


Additional Information

International Robot Exhibition 2022



New concept product families will be exhibited at the International Robot Exhibition scheduled for March 2022





Glossary



Term	Meaning
Injection molding machine	A machine that works by injecting melted plastic into a mold to form parts (example application: manufacture of plastic model kits)
Peripheral equipment	Hardware that is mounted on, connected to, or used with robots, such as force sensors, vision cameras, vibration feeders, and general-purpose end-effectors
Engineering	Conceptualizing, proof-of-concept testing, designing, manufacturing and improving the operation of automation systems for manufacturing processes (i.e., production engineering)
3C	Communication (mainly smartphones), consumers (mainly of home electronics), and computers (mainly PCs)
Sensing device	Devices that utilize Epson's own sensing technology
Flat screw	A key component technology for Epson's compact precision injection molding machines, flat screws are a disc-shaped plasticizing mechanism (a part that melts and transports resin)
Sler	Here, an SIer refers not to a software system integrator but to a business operator that proposes, conceptualizes, installs, and supports automation systems in manufacturing processes
Sensory inspection	Inspections performed to assess product quality using human senses, such as sight for visual inspections and tactile/pressure sensing for inspecting motion during assembly