

MUSASHI is seeking partners with whom
MUSASHI can achieve new development methods
for EV parts and using its current machines to
expand outside of the automotive sector.

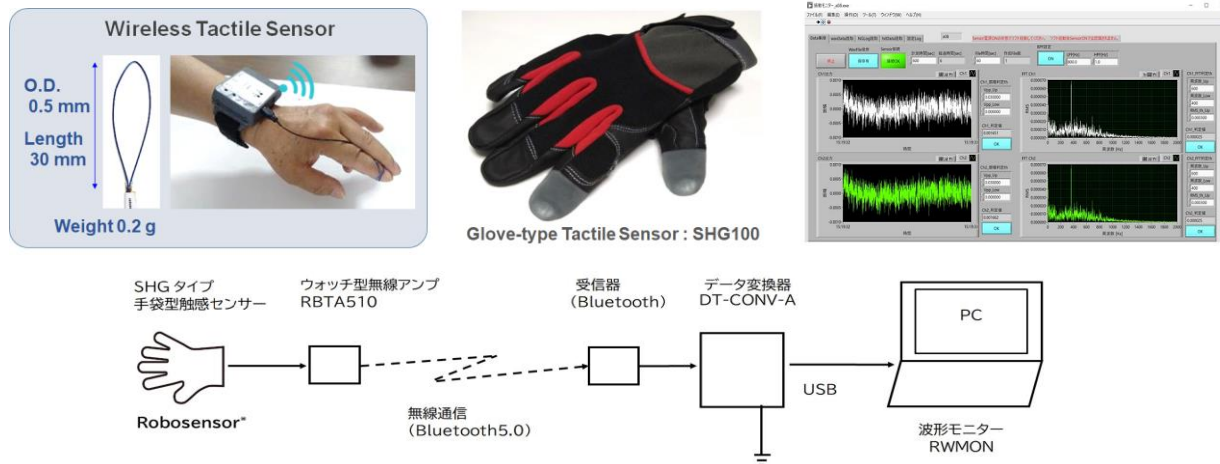
First Task: reduce energy used;
Second Task: re-use machines for new sectors;
Third Task: develop new EV products;
Fourth Task: innovation for electricity inside factories.

Transmissions for 2W
World No.1 Share

※According to our research. Sold 17.8m in 2022

Website(EN)	https://www.musashi.co.jp/en/ 
Address	39-5 Daizen, Ueta-cho, Toyohashi, Aichi, Japan
Year Established	1944
Number of Employees	16,316 (Consolidated, March 31, 2023)
FY2022 Sales / Profit	2,267 million USD / 58 million USD (Consolidated, 133 JPY/USD of March 31, 2023)
Main Business/ products	Manufacture and sale of transportation machinery and equipment
Overseas Plants and Offices	<u>Plant:</u> 1. Germany (6) 2. Hungary (2) 3. Spain 4. China (3) 5. Thailand (2) 6. India (3) 7. Indonesia (2) 8. Vietnam 9. USA 10. Canada 11. Mexico 12. Brazil (2) <u>Office:</u> 1. Germany 2. UK 3. China 4. Thailand 5. India 6. USA
Profile	Manufacturer of differential parts, planetary parts, engine intake and exhaust valve system parts, suspension and steering system parts, camshafts, one-way clutches, and transmission gear parts, camshafts, and one-way clutches for motorcycles. The company's largest shareholder is Honda Giken Kogyo (25%) and its largest customer is Honda (45%). The company is actively diversifying its business.

Real-time Monitoring for Manual Handling Work with Tactile Sensor Glove System



- The tactile sensor system (RH500 series) enables 10 hours of continuous real-time work monitoring, data collection and analysis.
- This tactile glove (SHG100) converts hand sensations on the production line into digital data.
- The system determines the exact work done by vibration amplitude, frequency, and amplitude ratio on the received signal and its FFT analysis.

We realized a prototype haptic glove that passed evaluation through a two-year PoC on our customer's production line in 2023.

- This system is expected to have a significant impact through effects such as "substantial reduction of assembly defects" & "improvement of human productivity".

Website(EN)	https://www.jetro.go.jp/en/hrportal/company/detail/100378.html
Address	1) Head Office; Hamamatsu city, Shizuoka pref. 2) Tokyo Branch Office ; Shinagawa-ku, Tokyo
Year Established	2016
Number of Employees	8
FY2021 Sales / Profit	N/A million USD / N/A million USD (Consolidated, 133 JPY/USD of March 31, 2023)
Main Business/ Products	1) High sensitivity wire sensor for manufacturing machines and robots 2) Continuous monitoring systems for machines, robots and human body conditions 3) Tactile sensors and wireless data acquisition and analysis systems
Overseas Subsidiary	N/A
Profile	In 2019, we have successfully developed an ultra-sensitive and ultra-fine sensor. Compared with other conventional sensors, our sensors have great potential in various fields. They can be used in vital sensing, nursing, and industrial applications for predicting the failure of machines and robots. We have sold them to more than 200 domestic users, and we are now in the process of developing overseas users and sales channels.



Takasago is seeking innovators who we can create new business with by utilizing our Takasago Fluidic Control Technology

1. Our technology has been utilized in various fields of cell culture, medical analysis, water analysis, aviation, space, environmental analysis, health care, food & beverage, agriculture and pharmaceuticals.
2. Our “never say no” policy toward our customer’s needs. Our strength is in customization, miniaturization and integration.

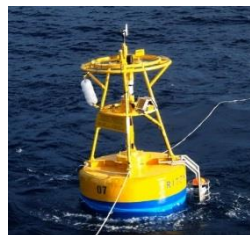
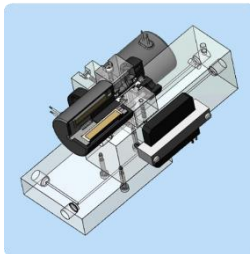
Outstanding Technology and Expertise

Takasago has an outstanding technology to control fluid. Namely, our “micro” **fluidic control technology** has accomplished the following projects:

- 1) New drug development by mimicking an in vivo environment; and
- 2) Automatic measurement of CO2 concentration of ocean surface.

Let Us Collaborate With You

Takasago is confident that we can support you to realize your dreams with our technology, expertise, and passion.



Website(EN)	https://www.takasago-fluidics.com/	
Address	66 Kakitsubata, Narumi-cho, Midori-ku, Nagoya, Aichi, Japan	
Year Established	1959	
Number of Employees	276 (October, 2022)	
FY2022 Sales / Profit	30.4 million USD (Consolidated, 133 JPY/USD of March 31, 2023)	
Main Business/ products	Design, manufacture and sales of solenoid valves (solenoid valves), pumps and other fluid control equipment, etc.	
Overseas Subsidiary and Branch	Subsidiary: China Branch: USA	
Profile	Manufacturer of solenoid valves such as diaphragm valves and pinch valves, micro pumps and manifolds. The company has high technological capabilities in micro fluid control.	



Toyota Tsusho is one of the 17 companies of Toyota Group and is seeking potential business collaborations with startups in the following fields:

- FOCUS AREAS including:
 - Next Mobility (CASE)
 - Renewable Energy
 - Growth of Africa
 - Circular Economy
 - Battery
 - Hydrogen
 - Economy of Life

Next Technology Fund (Toyota Tsusho's CVC for Startup Collaboration)

1. Investment Scope : Innovative technologies and services
2. Investment Period : from April 2023 (the 4th Fund)
3. Fund Use : Investment for startups and R&D costs

Next Technology Fund's Mission

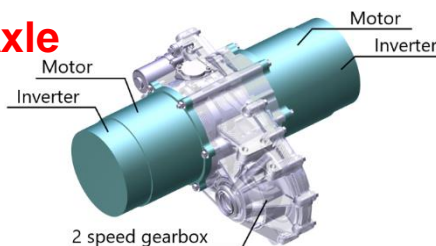
1. The primary focus is not on the financial return but on the potential synergy between Toyota Tsusho and startups.
2. We will fully utilize our strengths for the growth of startups.
 - Global business experience and local connections
 - Toyota Group network
 - Logistics and manufacturing, sales force

Website(EN)	https://www.toyota-tsusho.com/english/ 
Address	9-8, Meieki 4-chome, Nakamura-ku, Nagoya, Japan
Year Established	1948
Number of Employees	66,944 (Consolidated, March 31, 2023)
FY2022 Sales / Profit	7,284 million USD / 2,136 million USD (Consolidated, 133 JPY/USD of March 31, 2023)
Main Business/ Products	① Metals, ② Global Parts & Logistics, ③ Mobility, ④ Machinery, Energy & Project, ⑤ Chemicals & Electronics, ⑥ Food & Consumer ⑦ Africa
Overseas Subsidiary	50 overseas subsidiary and branches Global Network Toyota Tsusho (toyota-tsusho.com)
Profile	Corporate Profile Video Toyota Tsusho (toyota-tsusho.com) <ul style="list-style-type: none"> • Toyota group's sole trading company • They merged CFAO in 2016 and expand their business in Africa.

➤ What we want to achieve together

- ✓ To contribute carbon neutrality
- ✓ By reduction of the battery capacity installed in the BEV
- ✓ With utilizing advantage of **Univance's innovative e-Axle**

➤ Univance's innovative e-Axle; **DMM Axle**



1. Structure; 2-motors & 2speed eAxle (Motor and inverter must be procured externally)
2. 4 driving modes available
3. Power consumption improvement; +10% vs. 1-motor/1speed eAxle
= Can be 10% reduction in battery cost and weight


Please visit the link below for more information on DMM Axle.

<https://www.uvc.co.jp/en/product/exhibition/jsae2021.html>



➤ Target application of DMM Axle

Super sports and transportation vehicles (truck, bus, etc.)
 ,with large fluctuations in driving force in driving usage scene

Website(EN)	UNIVANCE CORPORATION (uvc.co.jp)	
Address	2418 Washizu, Kosai-si, Shizuoka, 431-0494, Japan	
Year Established	1937	
Number of Employees	2005 (as of 2023/3)	
FY2022 Sales / Profit	365 million USD / 9 million USD (Consolidated, 133 JPY/USD of March 31, 2023)	
Main Business/ Products	UNIVANCE is a specialized manufacturer of drivetrain units. Main products are drivetrain units such as transfer cases, manual transmissions and gear boxes for xEV and drivetrain parts such as shafts and gears. Among them, we are currently focusing the most on e-Axle projects.	
Overseas Subsidiary	Overseas factories in 3 locations :US, Thailand, and Indonesia	
Profile	UNIVANCE is a full-service supplier that delivers the best products to customers from planning and development to production and sales under a quality assurance system compliant with international standards.	