

Digitizing Human Work with Tactile AI & Vision AI

Creating Human Error-Free MFG by the Next Generation of Tactile Intelligence

However, Actual production line

2023 TESLA

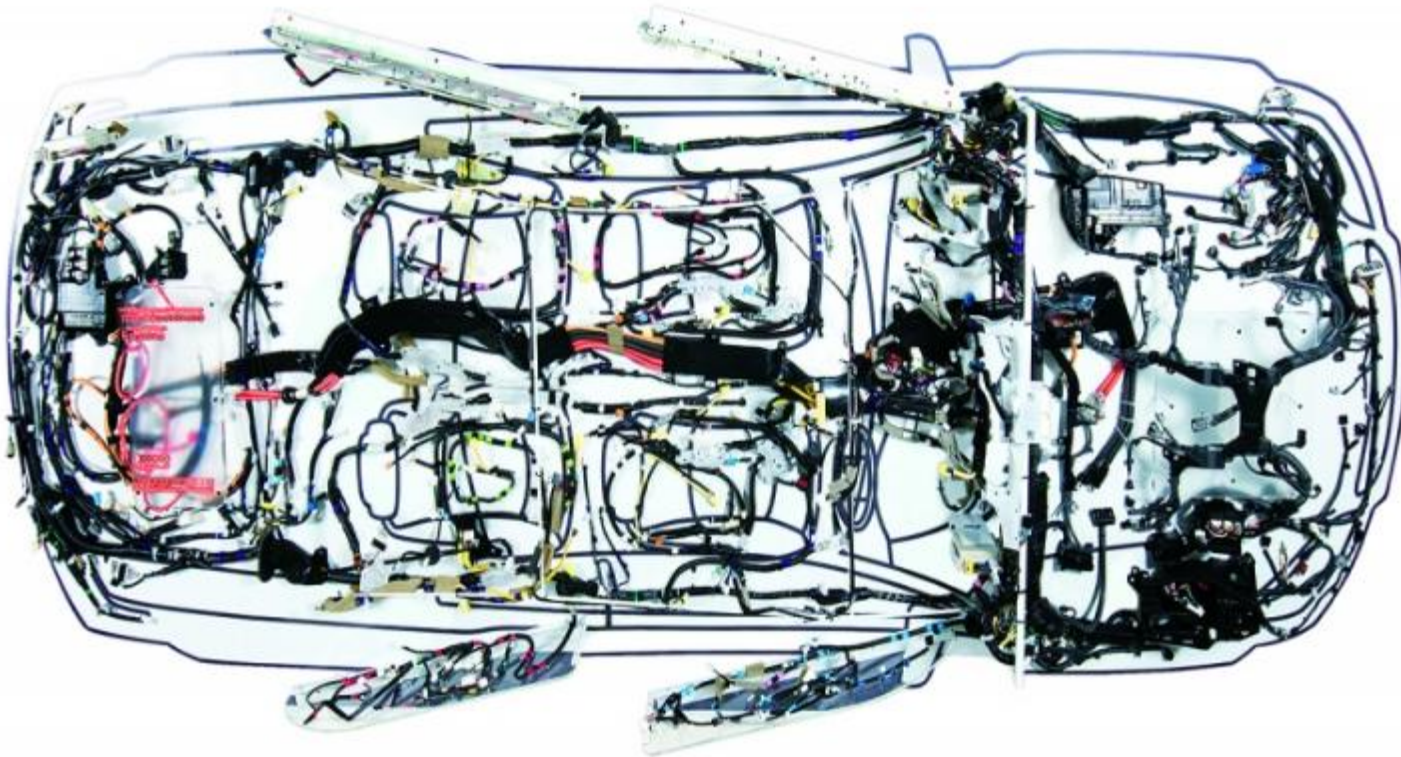


1913 FORD



Automakers manually assemble over 2 million connectors daily, risking human error. We eliminate human error, improve work quality, and integrate AI into manual processes.

More than 1000 wires inside a small size car



Various shapes of connectors used in a car



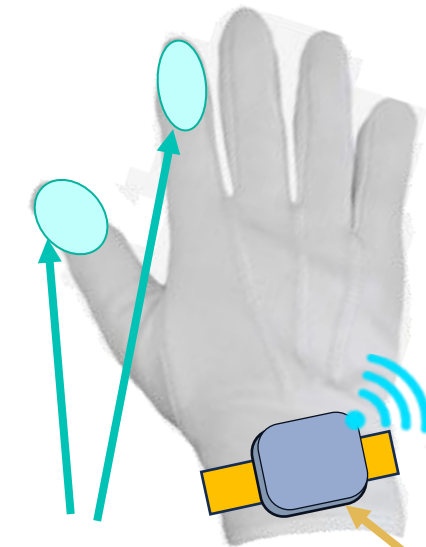
Using a breakthrough super tactile sensor and tactile-specific AI engine, we capture nuanced motion and contact dynamics

Glove Type Tactile Sensor & Tactile-AI System Improve Work Quality, Product Yield and Labor Efficiency

Manual work on
the production Line



Tactile Sensor
Glove



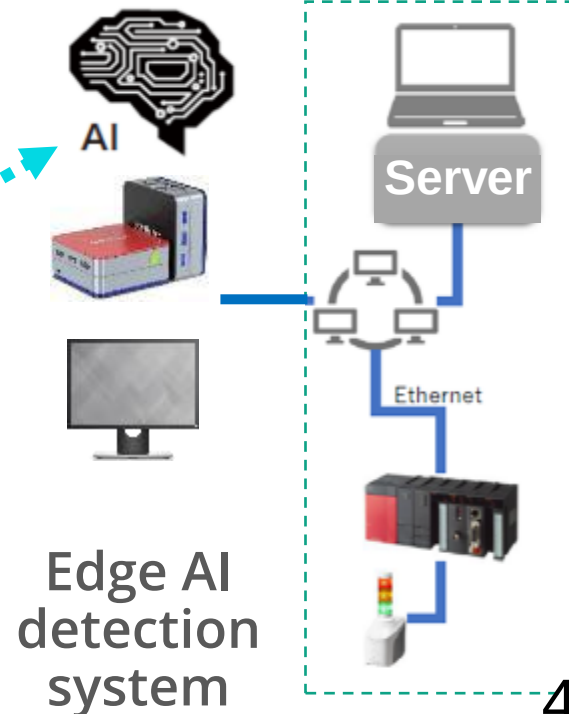
Tactile
Sensor

Wearable devices



Bluetooth Wireless Device

Edge AI Factory
LAN



Tactile Intelligence Enables Precise Connector Mating in Noisy Environments

High-Precision and Noise-Resistant Detection Powered by Our Sensing Technology

Higher scores indicate a greater alignment with the teaching data

Accurate AI judgment using tactile sensing data



Digital Paint Inspection and Full Traceability Powered by Integrated Tactile AI and Vision AI Using Our Super Tactile Sensor

Tactile AI rapidly detects microscopic paint defects, while Vision AI records their exact locations. The entire inspection and repair workflow becomes fully traceable and data-driven.



Tactile intelligence will play a vital role in Automotive Manufacturing.

In Automotive Assembly, The Global Market for HMI and Automation is Expanding.
Our Tactile Intelligence Systems are Continuously Unlocking New Areas of Latent Demand.

Manual Quality Control



Tapping Condition Test



Inspection and Maintenance



Engine and Transmission Assembly



Instrument Panels and Steering Systems



Seats and Doors



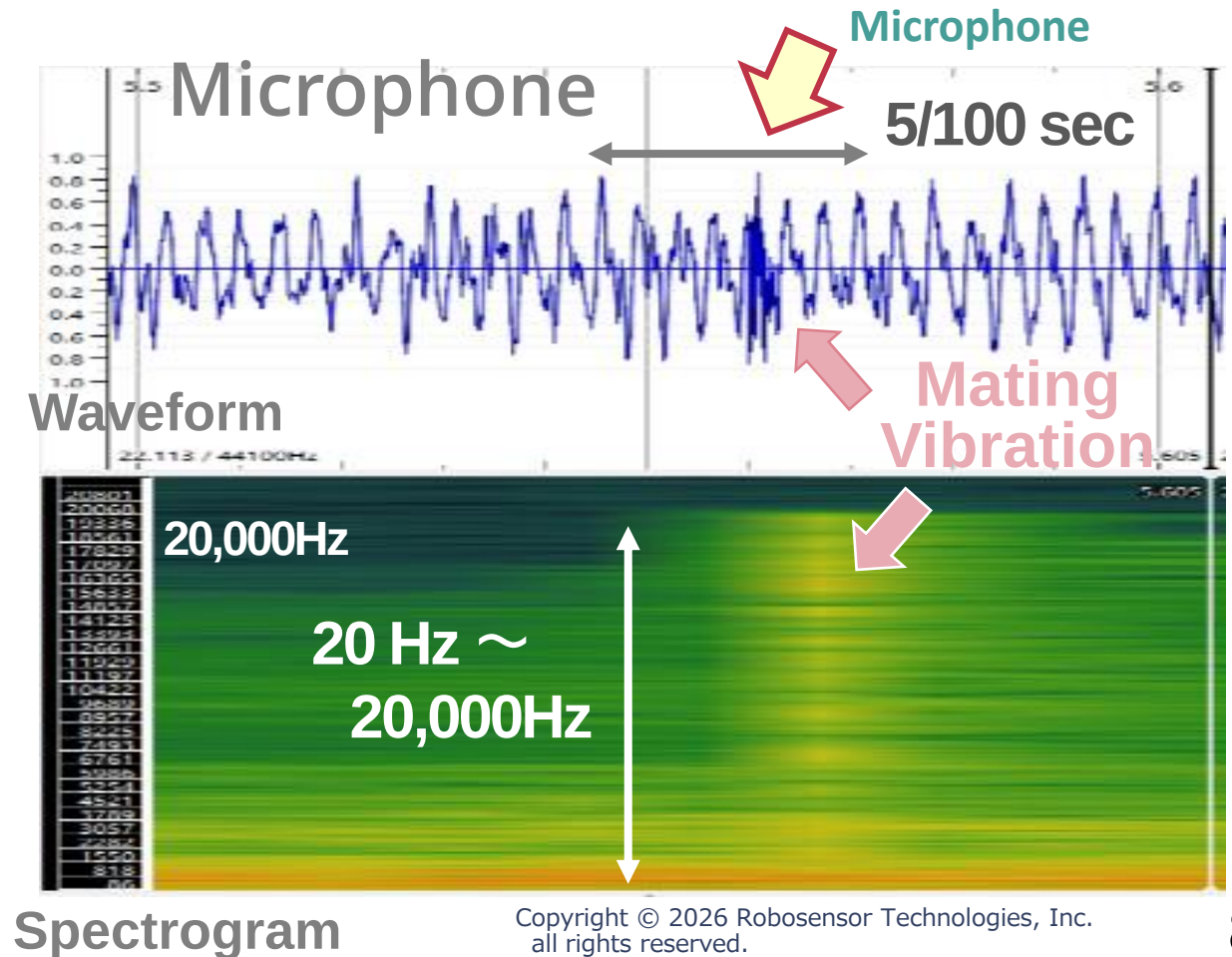
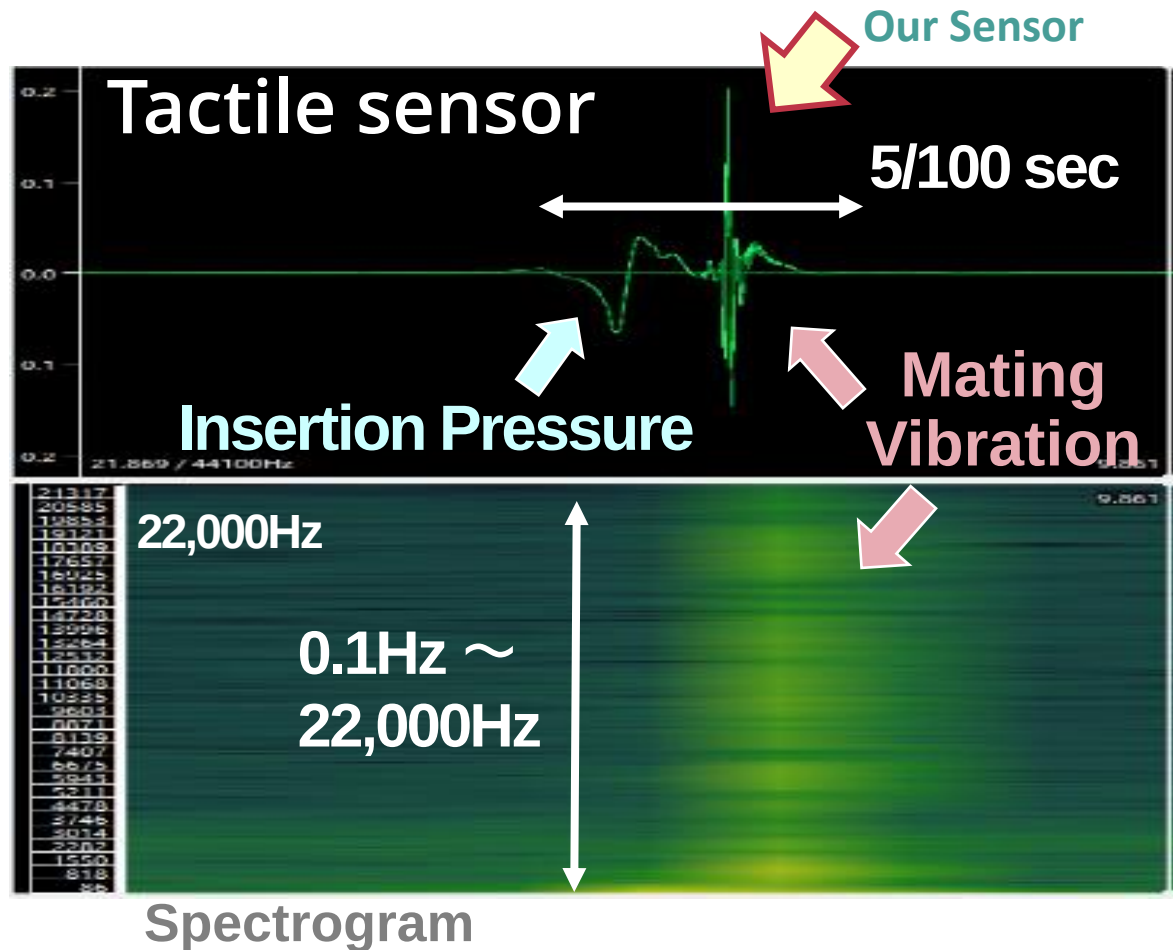
Bumpers and Headlights



Comparing our tactile sensors with competitors' products

Tactile sensor clearly measures only mating vibration, but microphone is disturbed by ambient noise

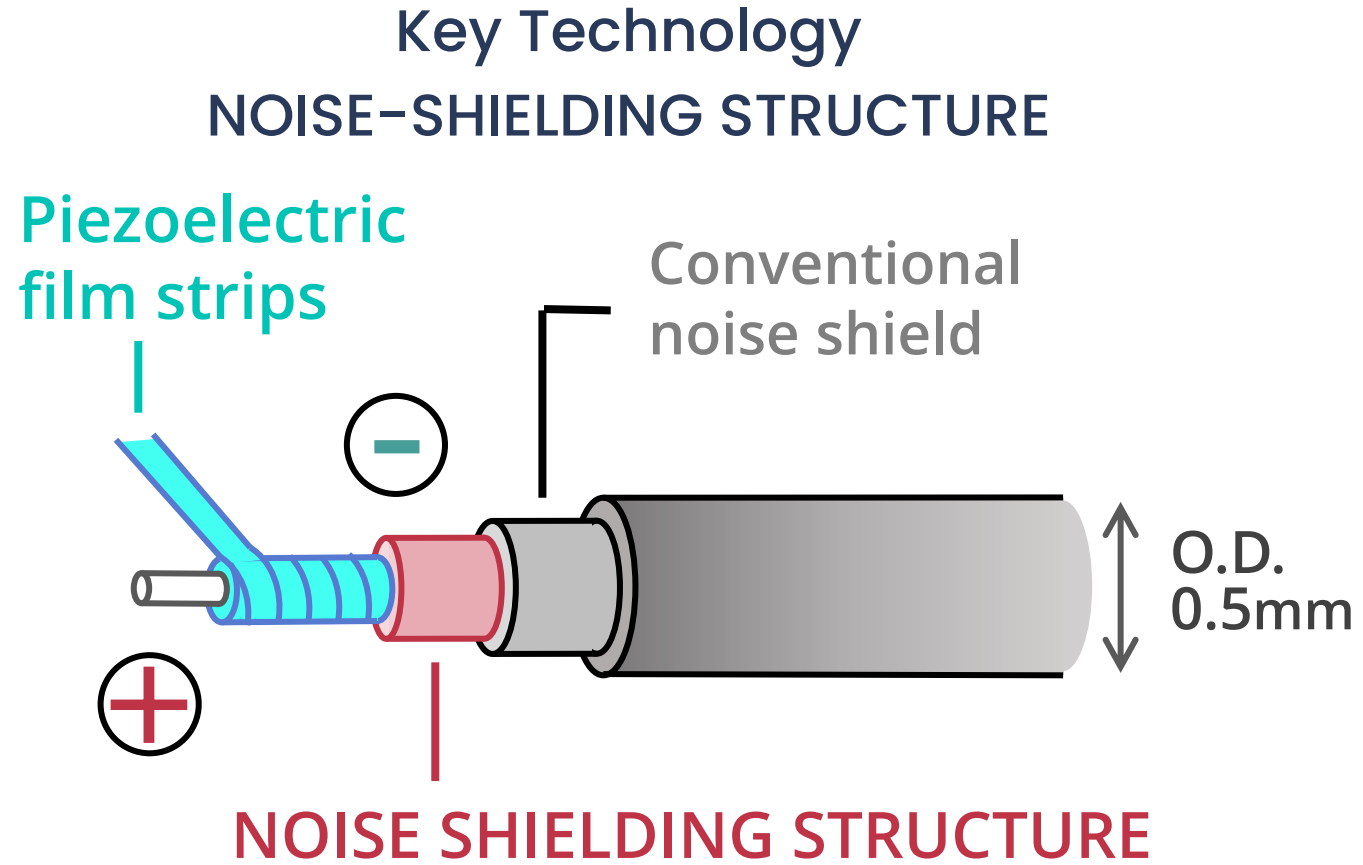
Both files were recorded at the same time under the same environmental noise.



Key Technology for Tactile Sensing: World's highest Super Sensitive wire sensor: Ultra-thin, Flexible and Lightweight



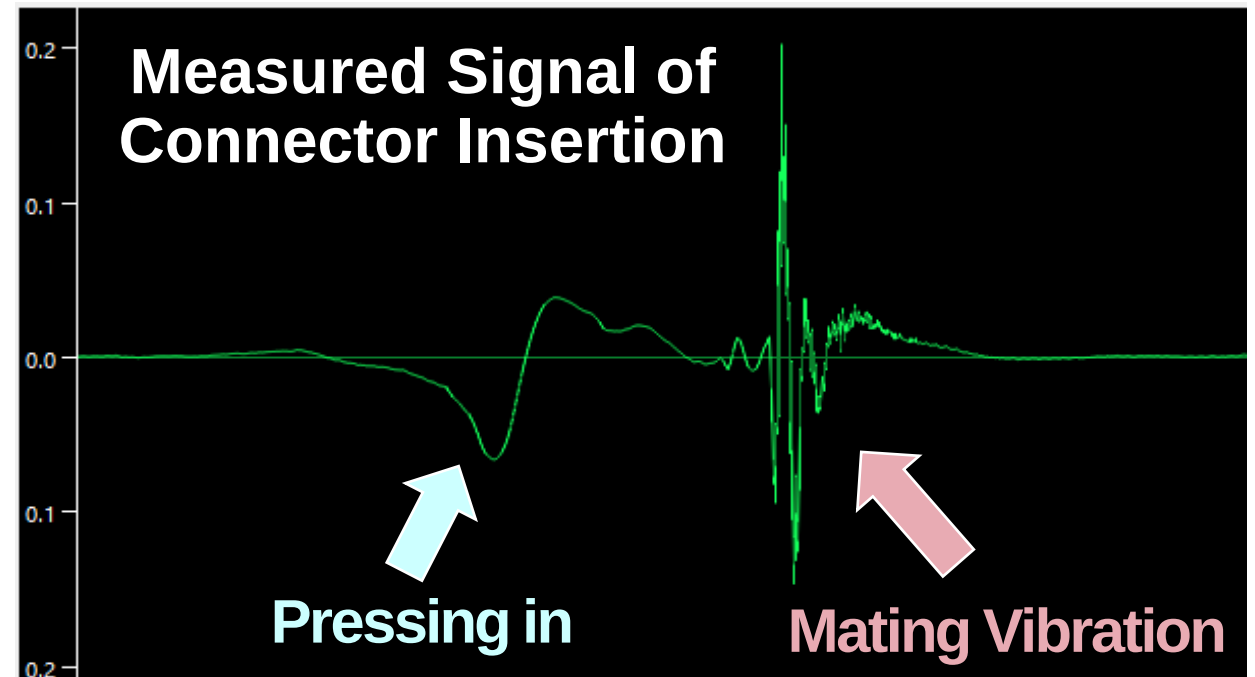
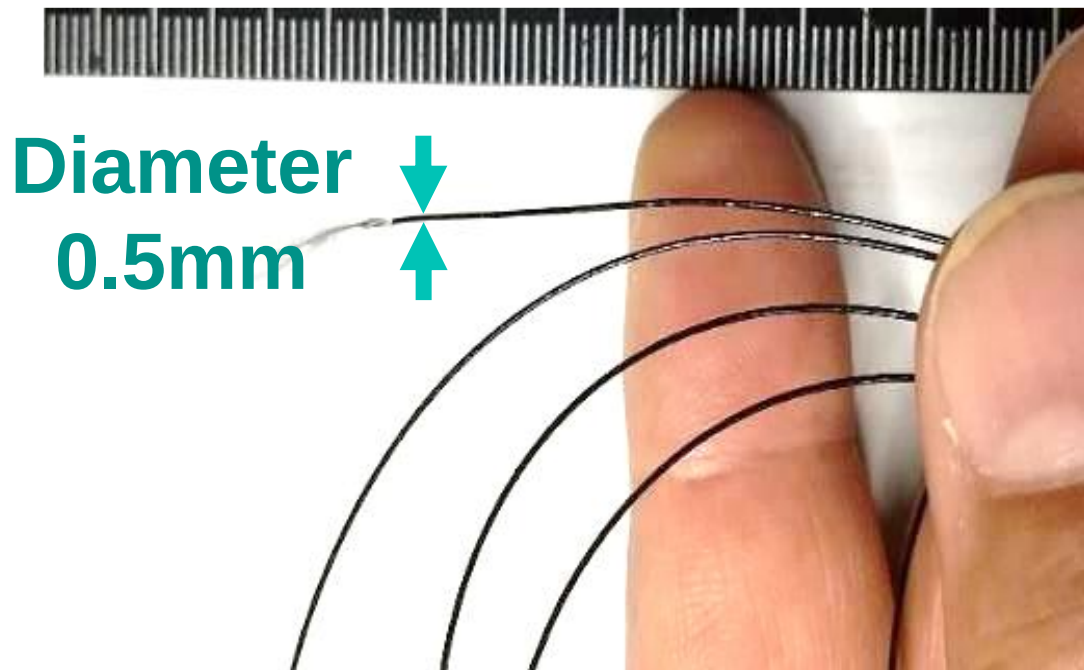
Dia.: 0.5 mm



Patented in JP, US, EP(GB,DE,FR), CN

With never-before-seen accuracy, Our Tactile sensing technology brings real-time, ultra-precise finger sensation — enabling AI to interpret human tracking

- Key Technology Patented in JP, US, EP(GB,DE,FR), CN
- Super Sensitive Wire Sensor, Ultra-Thin, Flexible and Lightweight
- Providing the most accurate, high resolution teaching data for AI



Key Technology Behind Our Tactile Sensing Ultra-Sensitive Wire Sensor — Ultra-Thin, Flexible, and Lightweight

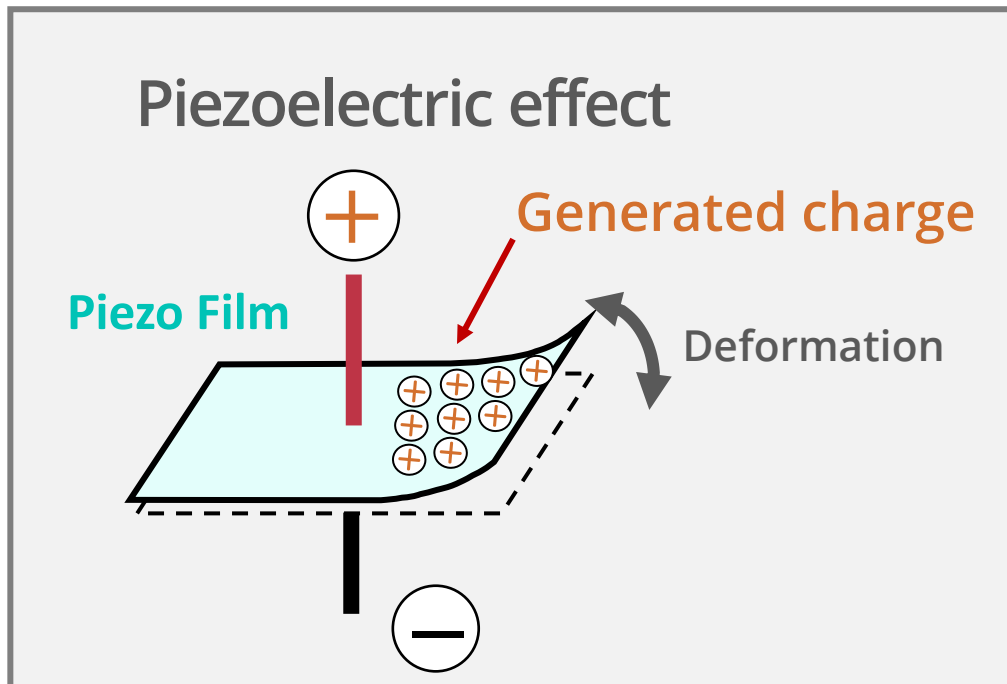
Super-sensitive wire sensor with charge detection of ~2,000 electrons

$$V = \frac{Q}{C}$$

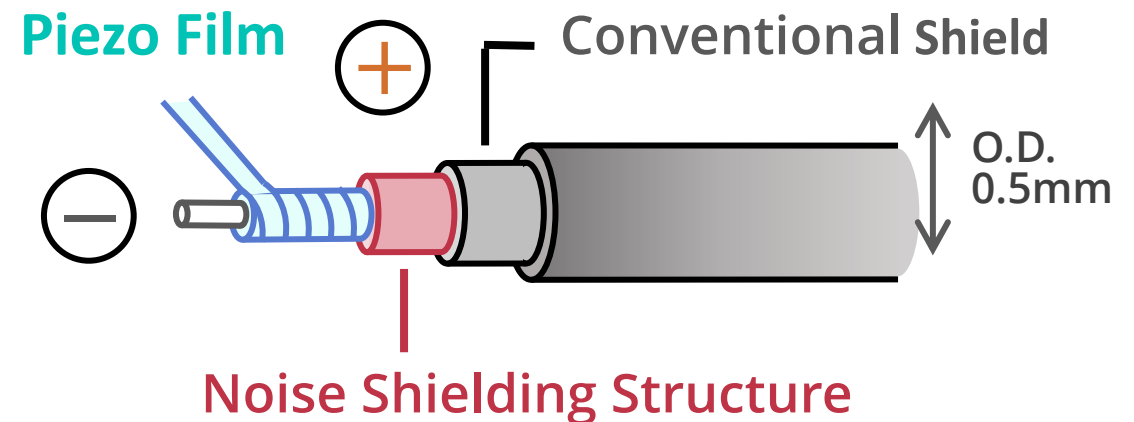
Measurement
Calculation

V	Sensor output voltage	1x10 ⁻⁶ volt
C	Sensor capacitance	300x10 ⁻¹² Farad
Q	Generated charge	300x10 ⁻¹⁸ Coulomb

*) one electron: e- 1.6x10⁻¹⁹ Coulomb



Key Structure of Our Wire Sensor



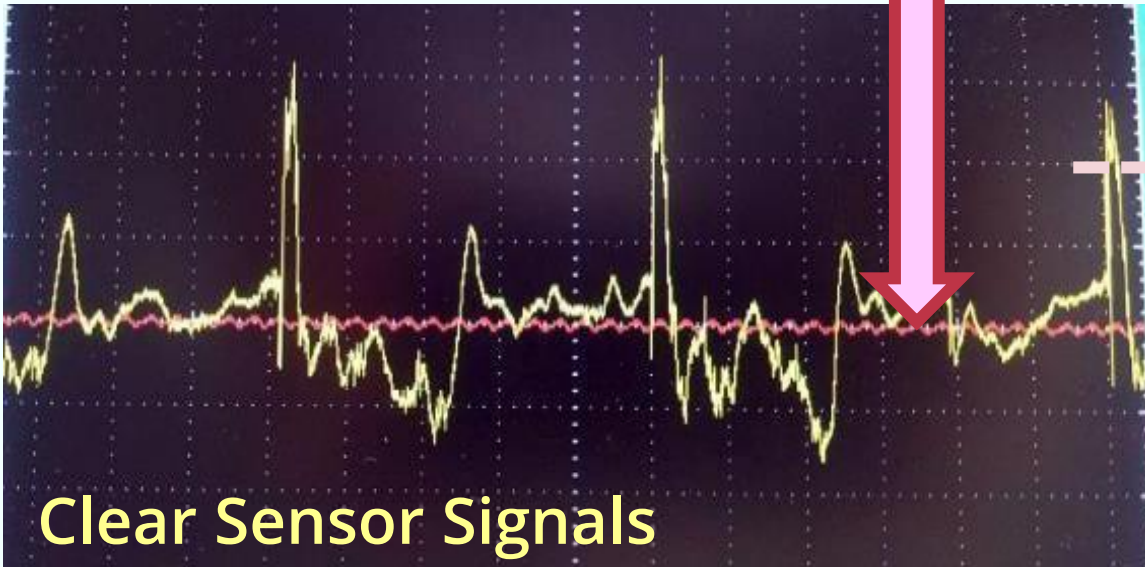
Effect of Our Noiseless Structure for High-Definition Measurement

By minimizing noise, even the tiniest signals can be measured.

Robosensor

Clear signals without noises

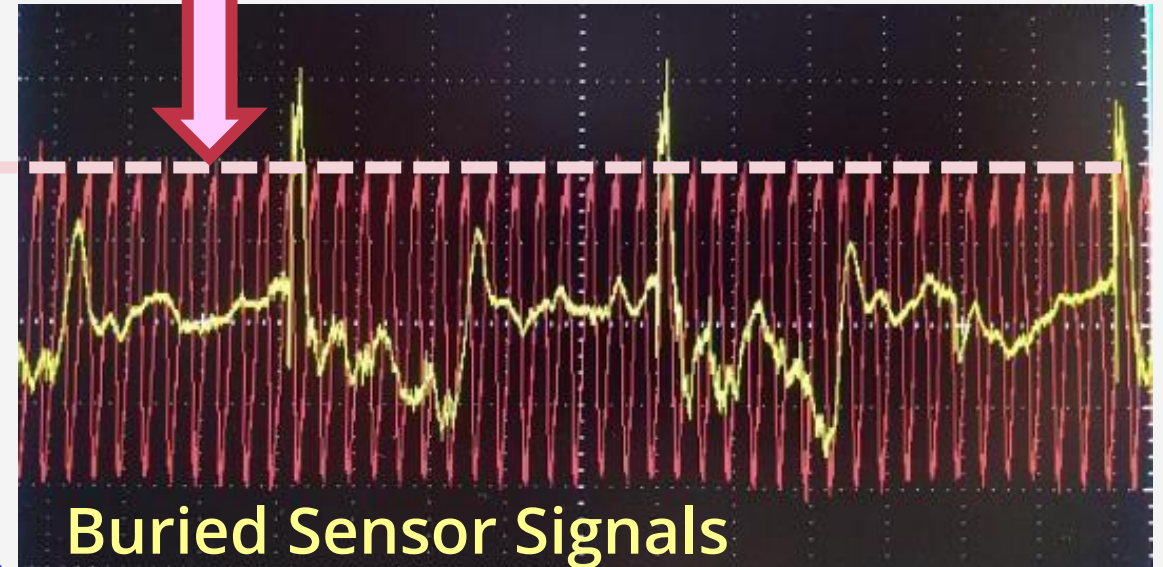
Minimal Noise



Conventional Sensors

Signals concealed in the noises

Higher Noise level



Expanding Applications of Our Tactile Intelligence

Advanced tactile sensing +AI driving the next generation of HMI & automation

Active industry collaborations and many market traction prove its real-world impact.

Seatbelt Rollback
Tests



Construction &
Infrastructure



Robotic Hands
& Automation



Medical &
Health Care



Surface Inspection



Facility Maintenance



Food, Cooking,
& Fish Eggs

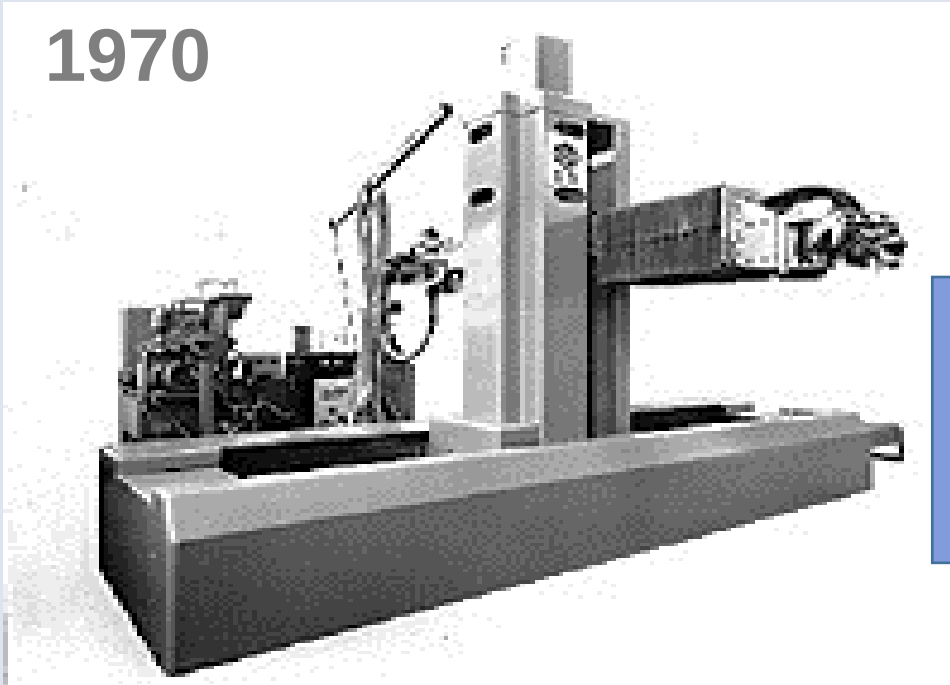


Cosmetics & Wigs



Automation of Welding Processes in the Automotive Industry

1970



“Mr. Alos”, the First Domestic Spot Welding Robot

Exhibit: Industrial Technology History Data Base

only 50
years



Today's Robots for Spot Welding

THE Next SOLUTION

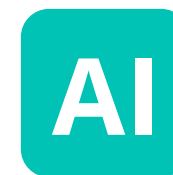
Through AI Tactile Sensor & Evaluation System Automated manufacturing of products with robot control



Cutting-edge
Tactile Sensors



Tactile-AI
Evaluating System



Automated Production
with ROBOTS



Company Profile & Team Members

Vision

"Unlocking the Power of Touch"
Transforming Human-Machine Interfaces with Tactile-AI Technology

Customers

TOYOTA, HONDA, NISSAN, SUZUKI, AISIN,
DENSO, HITACHI, TOSHIBA, MITSUBISHI,
PANASONIC, SEIKO, SONY, ROHM, JP, etc.

Awards (2017~2023)

1. 2017, Shizuoka Bank Entrepreneur Award ; Grand Prize
2. 2019, ILS Tokyo 2019 : TOP20 Venture Award
3. 2022, The 5th MUFJ-R&C "LEAP OVER" ; Grand Prize



Founder & CEO

Masayoshi Ohmura

former **FUJITSU**  **YAMAHA**

- R&D of LSI and Sensor,
- Resolving many US Patent disputes
- Invented >100 patents



Executive Officer Sales

Leo Miyamoto

former **YOKOGAWA** 

Vice President USA

Sales and Marketing
experience in the US,
Europe, Asia and Japan



Unlocking the Power of Touch

We are currently seeking strategic investment to accelerate the growth of the tactile sensing and tactile AI business. Our funding target is 3 million USD to expand R&D, scale up production, and promote sales.

Let's shape the future of touch.