MOVE THE WORLD FORWARD **MITSUBISHI HEAVY INDUSTRIES GROUP**

Needs and challenges for Wireless Factory

IoT International Symposium 2018

2018.3.9

MITSUBISHI HEAVY INDUSTRIES MACHINE TOOL CO., LTD.

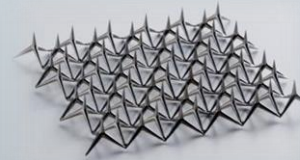MSS300 Super Skiving Machine   MVR-FX   μV1   ABLASER
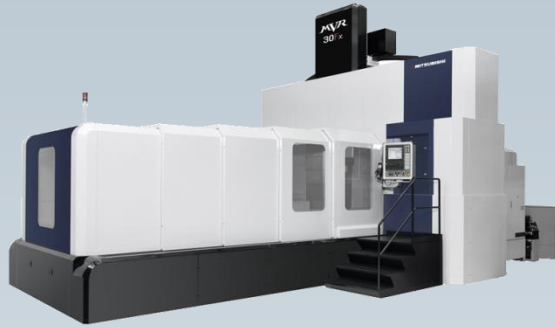
Mitsubishi Heavy Industries Machine Tool

Gear Machining

Die Mold Machining

High Precision Machining

Laser Micro Machining

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WIRE**LESS**

Machine Tool

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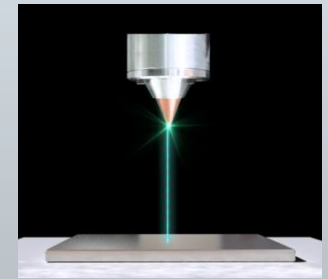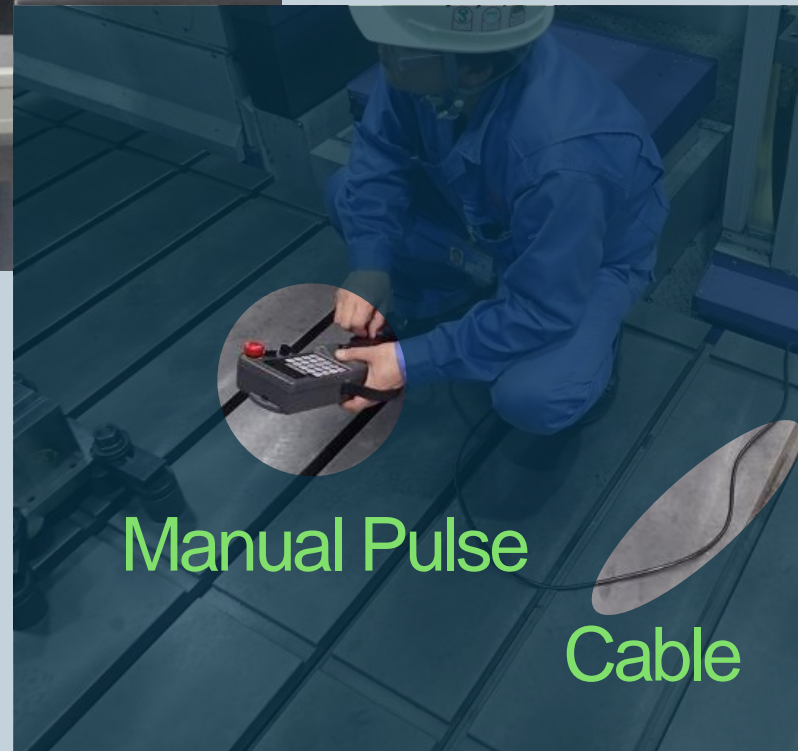
Operation Panel

Problems to be solved
・Machine Emergency Stop when wireless communication disconnected

Issues Resolved
・Wide Working Space
・Safe Walking

Manual Pulse

Cable

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Sensing

Proximity switch

Problems to be solved
・Real-time Big Data
・Wireless Power Supply

Gap Sensor
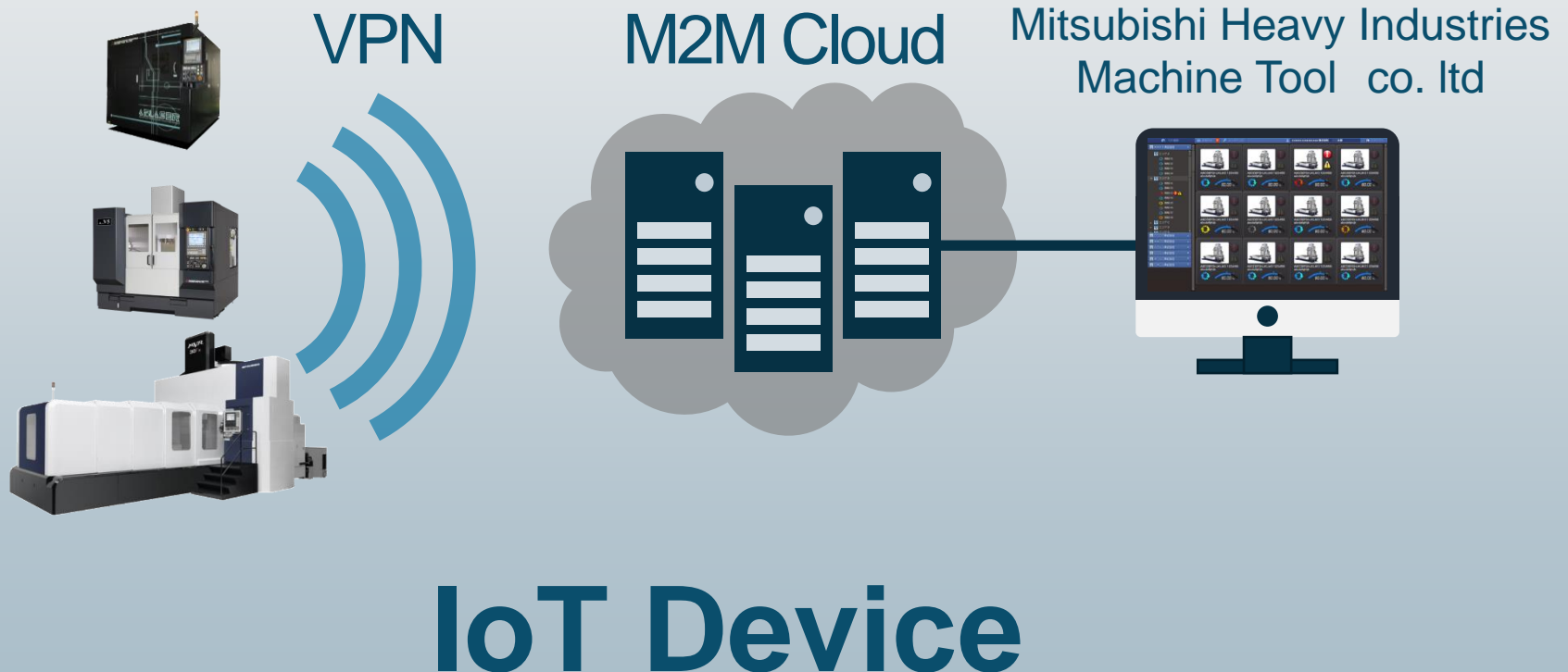
Issues Resolved
・Wire-saving
・Extendibility
・Flexibility

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Issues Resolved
・Extendibility
・Flexibility
・No Need Factory Wired LAN

Problems to be solved
・High security
・Unified communication standards between countries
・Communication expenses

VPN

M2M Cloud

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IoT Device

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Summary

Problems to be solved for **Wireless** Factory

・communication **Reliability** (Stable and fast communication)

・Wireless **Power** Supply / Power saving wireless communication

・ Unified communication **standards** between countries

Thank you

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