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muratec



Muratec Smart Support

Visual Manager III
V-LABO III



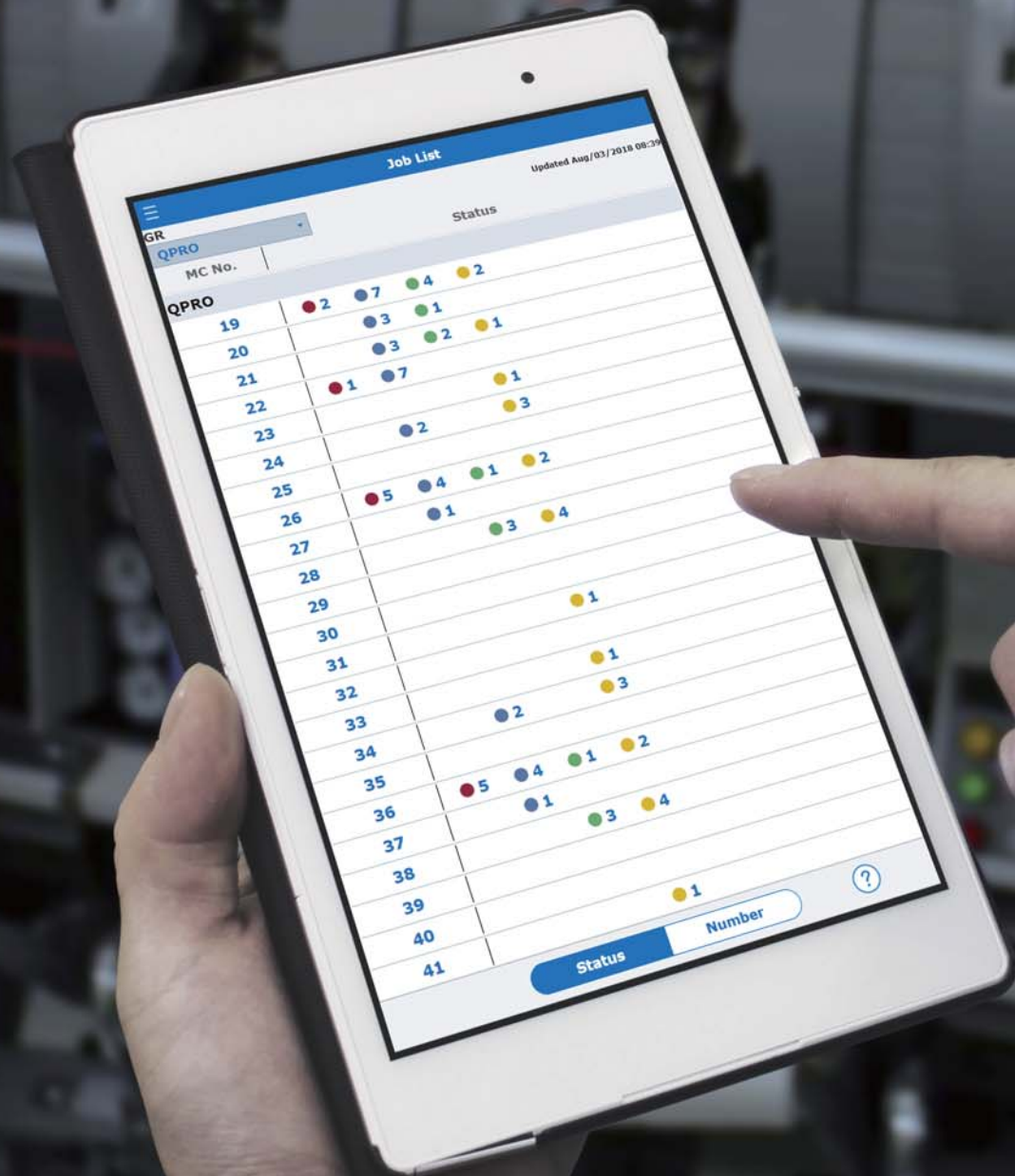
We reserve our right to modify them at any time, to be confirmed by authorized specification.

CAT. NO.21P762 19-03-2.5(FR-NS)

Jun. 2019

MURATA MACHINERY, LTD.

Muratec Partners are Linked with Muratec Smart Support.



EASY ACCESS

You can access and review data and information provided by MSS from any location in a factory.



On any factory network PC.

In a wireless environment around the machines. MWE (Muratec Wireless Equipment) is sold separately.



Outside the factory (MSS PORTAL)

EASY SOLUTION

Trouble points and problems can be extracted so that customers can take action and solve the problem on their own.

MSS Web Applications

- Checking machine performance
- Extracting trouble points from machine data on a daily basis
- Creating an optimum periodic maintenance schedule
- Solving machine trouble by the MSS Web Applications



Report on analytical results

A report on analytical results of medium and long term data is available.



EFFICIENT SUPPORT

Customers and Muratec staff share machine information by means of automatic collection, accumulation, and aggregation of operational data.

When trouble occurs, you can receive accurate and speedy technical support.



Customer



Muratec Head Office



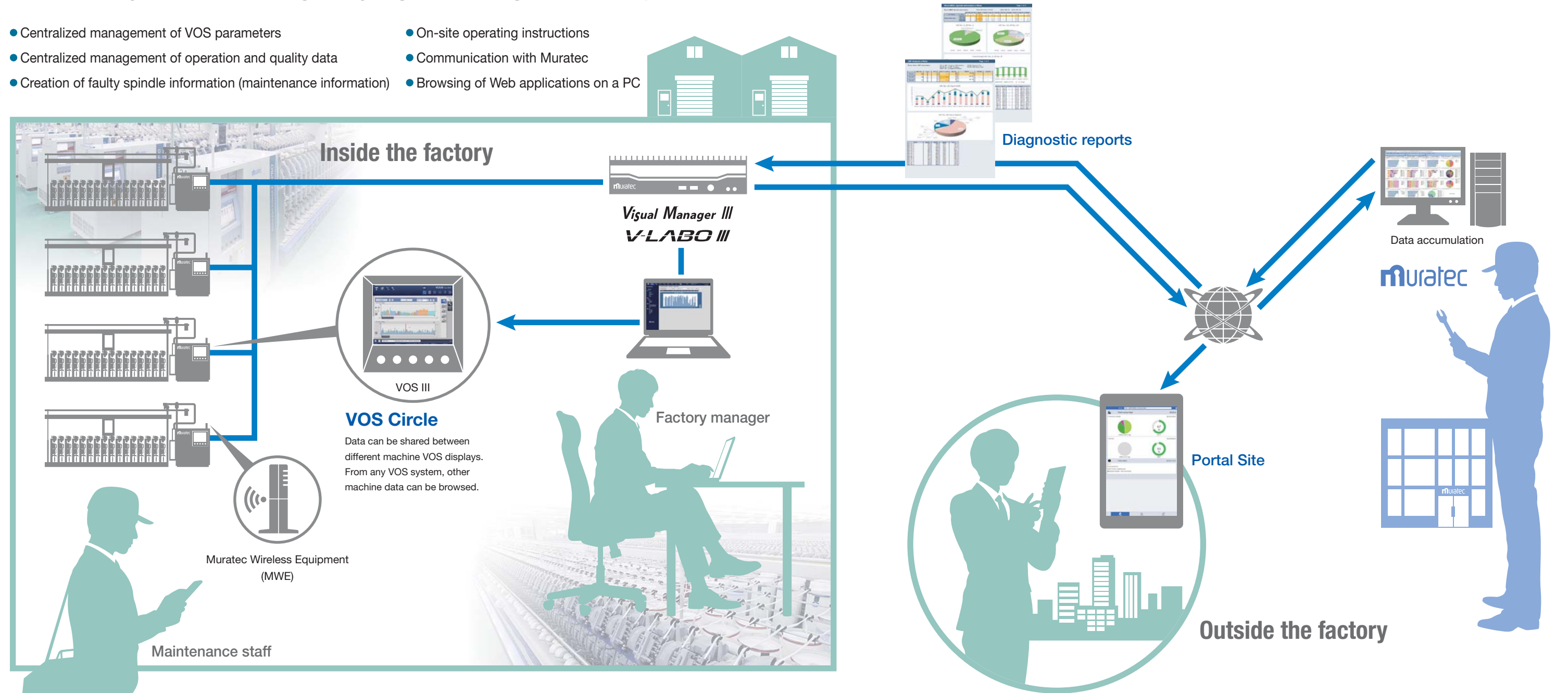
Muratec Service location

Muratec Smart Support



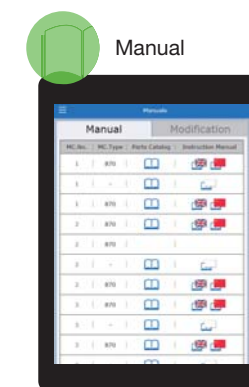
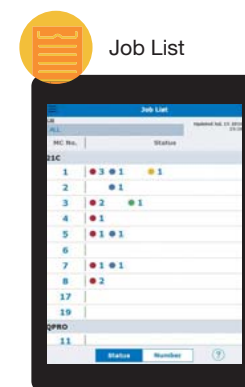
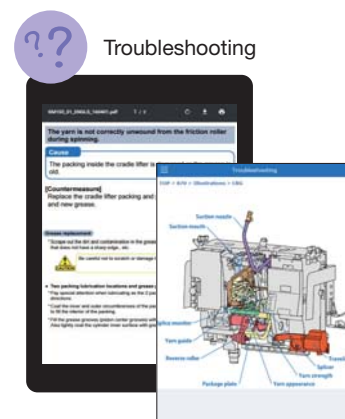
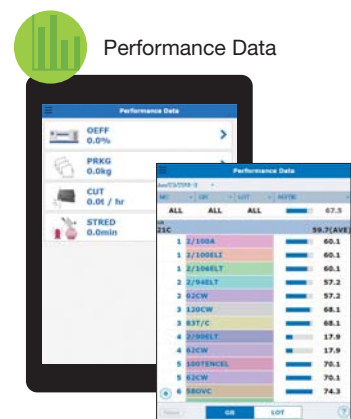
Centralized system for collecting, analyzing, and storing data of multiple machines.

- Centralized management of VOS parameters
- Centralized management of operation and quality data
- Creation of faulty spindle information (maintenance information)
- On-site operating instructions
- Communication with Muratec
- Browsing of Web applications on a PC



Web Applications

Can be used by installing MWE



VM WEEKLY HEALTH

Report operation data machinewise and lotwise.

Weekly operation data of in-factory automatic winders is reported as divided into the following items.

- Production data
- Quality data
- Extract faulty machine and faulty spindle data

MIS% : Mis-splicing Ratio

YEF% : CBF bobbin yarn end finding success rates

YF/Y : No. of yarn defects per 100 km

FBE% : CBF full bobbin discharge rates, CBF alarms

DOF% : Auto doffer doffing success rates



Production Data

Worst MIS% Spindle Information

Worst Alarm CBF Information

Production, AEF%, SEF%, MIS%

VM HEALTH ANALYSIS

Relative evaluation of factory's automatic winder performance.

A monthly summary of major operation data is reported.

Monthly operation status is reported as a relative evaluation among country users and worldwide users.



Comments

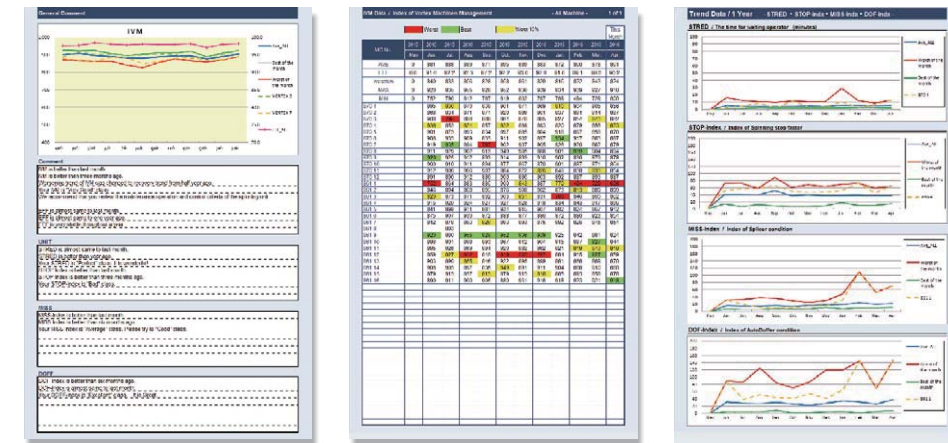
Index of Muratec Winder Level

Time Chart

VL HEALTH ANALYSIS

Outline of machine health management.

Monthly performance is validated by a score.



Comments

Index of VORTEX Machine Management

Time Chart

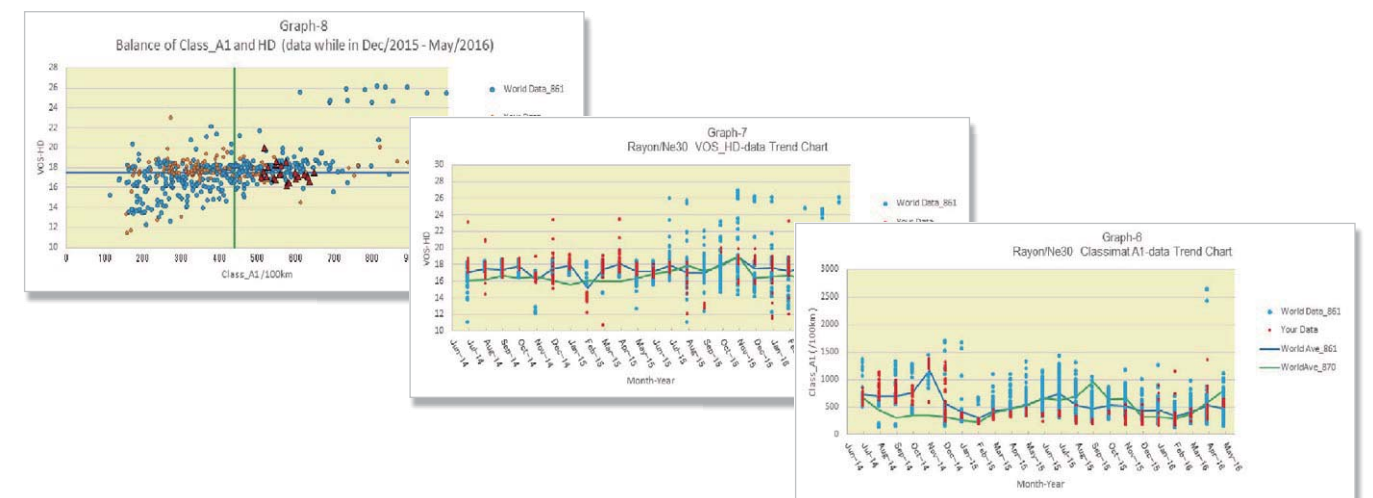
VL ADVANCED ANALYSIS

Relative quality index for VORTEX yarn.

VOS quality data is reported by compilation according to yarn types and yarn counts.

- Trend analysis of factory quality data for 1 year period.
- Trend analysis of world VORTEX quality data for 1 year period.
- Evaluation of factory data comparing the world trend.

Data Comparison with World VORTEX User (Rayon-Ne30)



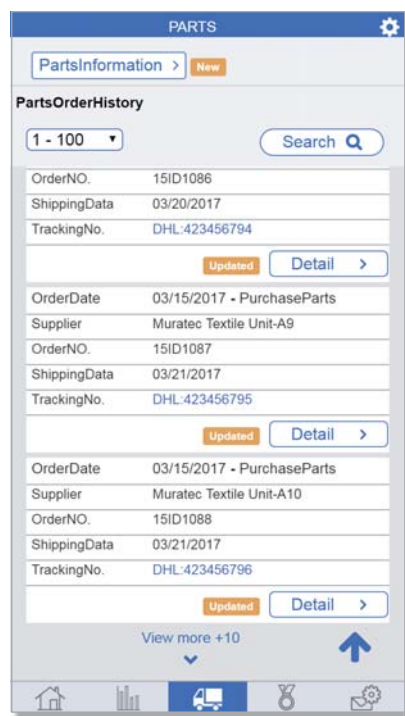
Production volume & machine efficiency

Check your factory status using a tablet, smartphone, or other mobile device from anywhere in the world.



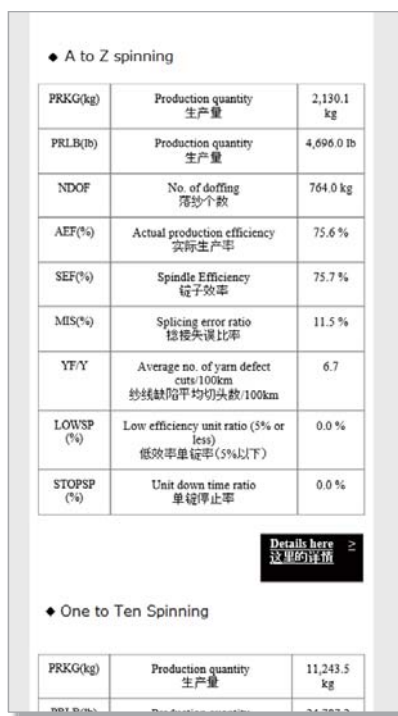
Part shipping status verification

Allows for easy verification of the shipping status of parts without the need for troublesome inquiries.



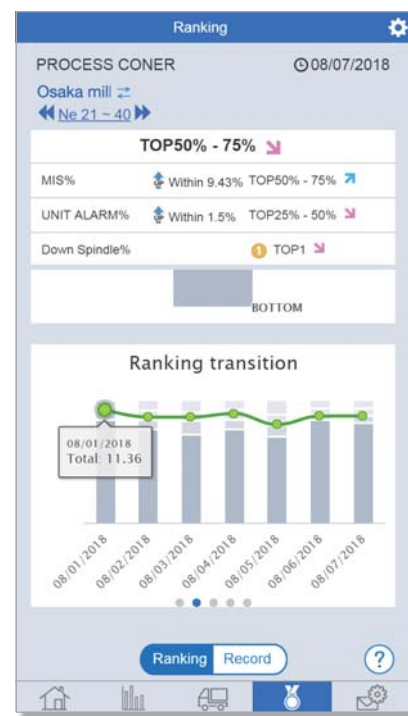
Production status notifications

Allows for reception of emails which provide production status information at selected times.



Ranking

Compares your company's factories to other Muratec users around the world and displays a ranking. This ranking can be used as an index for factory operation improvement initiatives.



MWE (Muratec Wireless Equipment)

Installing MWE allows for use of MSS Web Applications on tablets and smartphones on internal factory wireless networks.

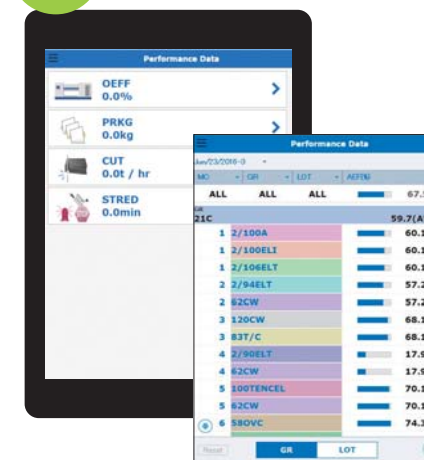
Superior environmental performance dedicated to spinning factory

- Vibration resistance
- Cotton fly resistance
- Heat resistance
- Moisture resistance
- Corrosion resistance



MSS Web Applications

Performance Data



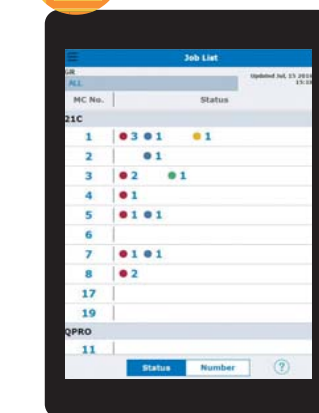
You can access and review all machine operational data even without operating a VOS.

Troubleshooting



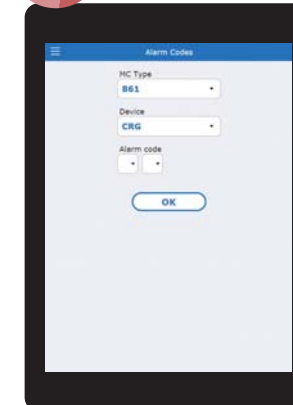
Causes of occurrence of machine troubles can be found by operators that lead to problem-solving.

Job List



You can access and review faulty spindle information (maintenance information) extracted by the Visual Manager III V-LABO III. Progress and completion of maintenance work are recorded.

Alarm code



For alarms given on machine stands, solutions are proposed.

Manual



You can access and review instruction manuals that comply with each machine stand's specifications.

Parts Inquiry

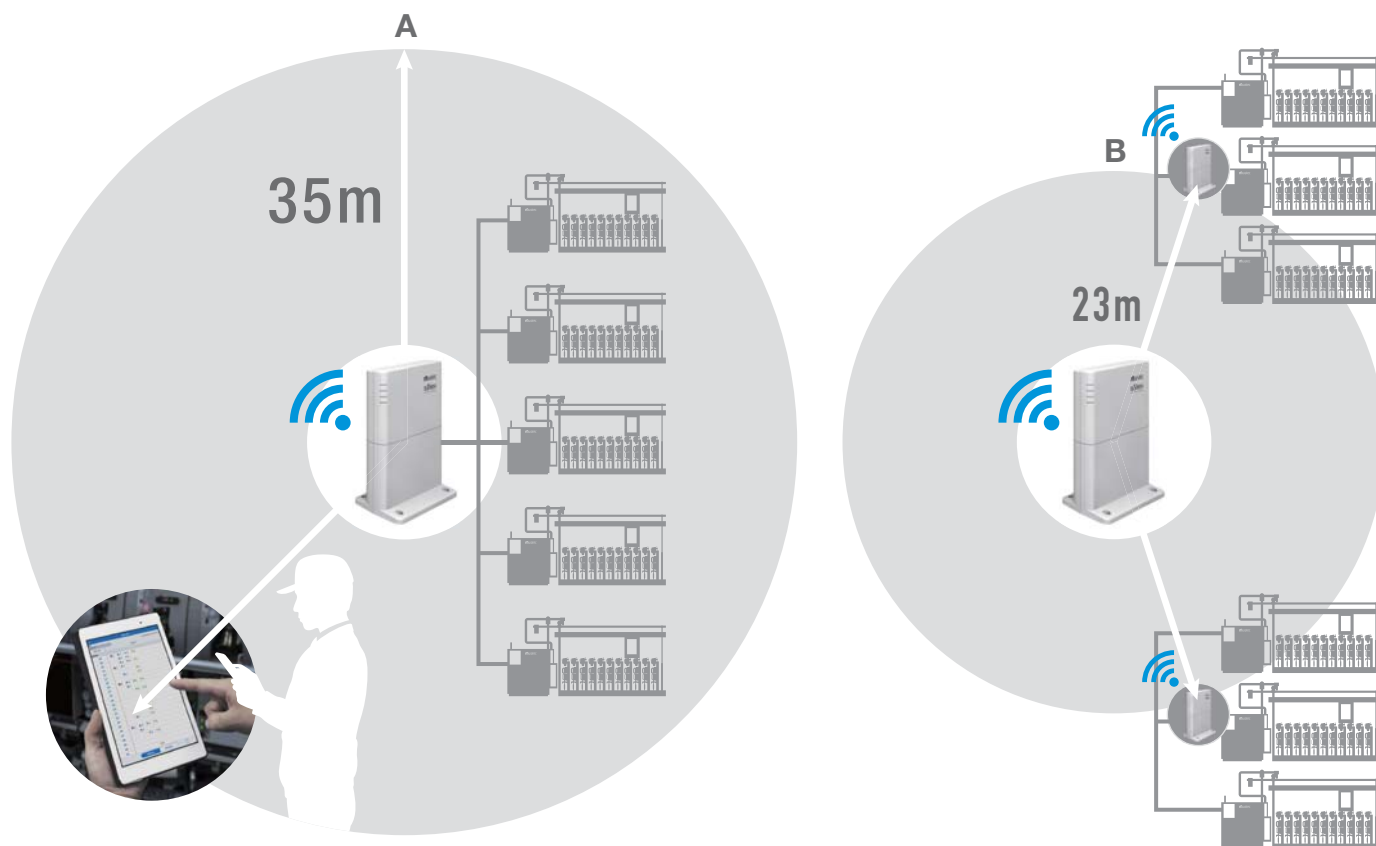


Part estimates required on-site are supported.

MWE wireless communication specifications

Muratec Wireless Equipment

Communication frequency	Default	2.4 GHz
	Optional	5.0 GHz
Usage temperature range	0 - 45 °C	
Usage humidity range	20 - 95 %RH *There must be no condensation.	
Standard communication ranges	A Between MWE and smartphone	35 m
	B Between MWE and other MWE	23 m

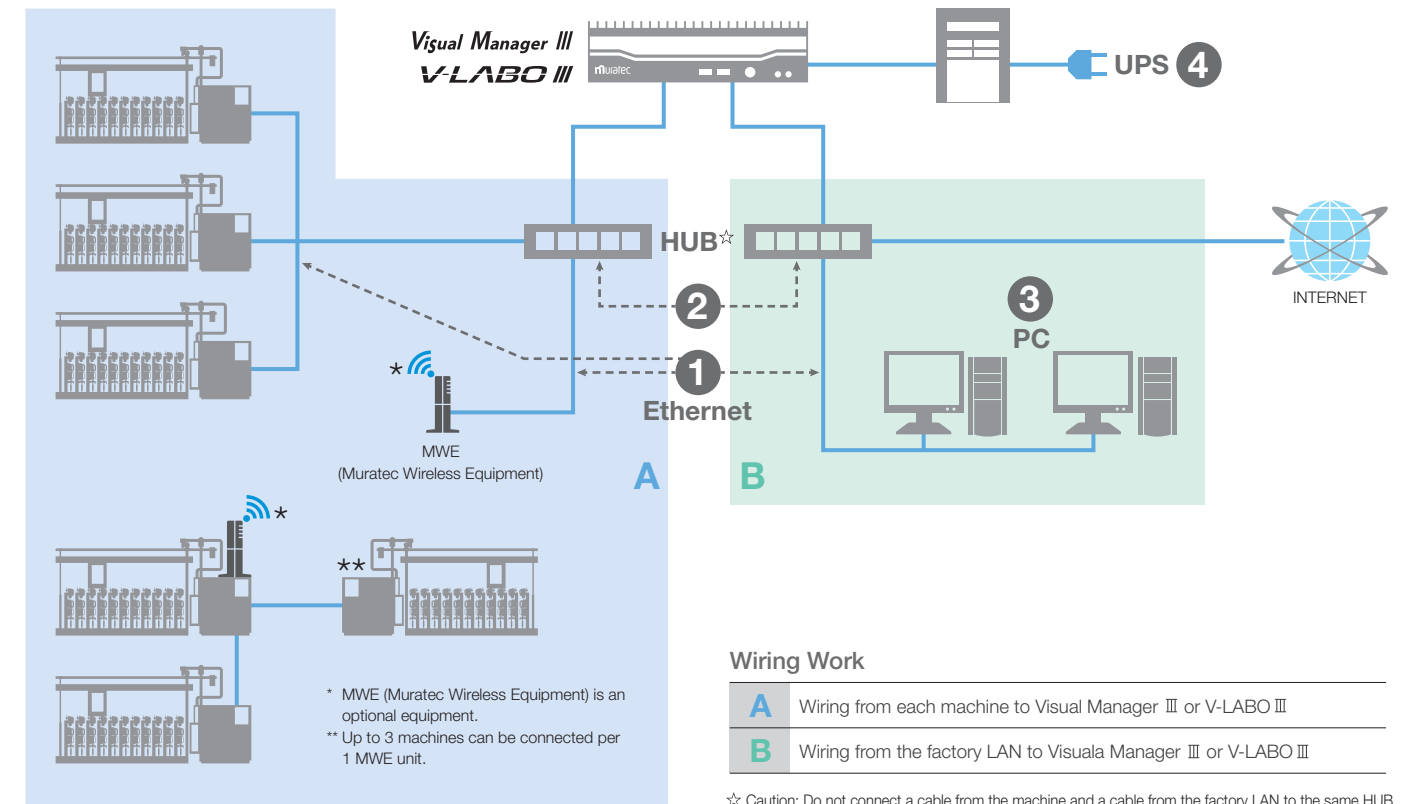


Options

	FPRO series	QPRO series	21C	870 EX	870	861
Muratec Wireless Equipment (MWE) Machine network wireless connection/ use of MSS Web Applications inside the factory	●	●	●	●	●	●
MSS Portal Verification of production status from outside the factory	●	●	●	●	●	●

*QPRO series: QPRO, QPRO Plus, QPRO EX
*FPRO series: FPRO, FPRO Plus, FPRO EX

Factory Wiring Diagram



Applicable Models

Visual Manager III	21C, QPRO, FPRO, QPRO Plus, FPRO Plus, QPRO EX, FPRO EX
V-LABO III	VORTEX 861, VORTEX III 870, VORTEX 870 EX

Supported OS & Browser

	OS	Browser
PC	Windows Vista, 7, 8, 8.1, 10	Internet Explorer 11
Tablet / Smartphone	Android 4, 5, 6	Chrome

Necessary Equipment

1 Ethernet cable	Enhanced Category 5 - STP (Shield Twisted Pair) or more
2 HUB	Prepare HUBs in line with the number of connected machines. Prepare another power supply at a HUB installation site because it is separately required for HUB installation. Prepare HUBs corresponding to STP (Shield Twisted Pair).
3 PC	A PC connected to LAN is required to access data in Visual Manager III or V-LABO III. Visual Manager III or V-LABO III can be used with PC in which Internet Explorer is installed. No dedicated PC is required.
4 Uninterruptible power supply system (UPS)	Visual Manager III or V-LABO III may experience problems with even a momentary power outage. Installation of an uninterruptible power supply system (UPS) is highly recommended.