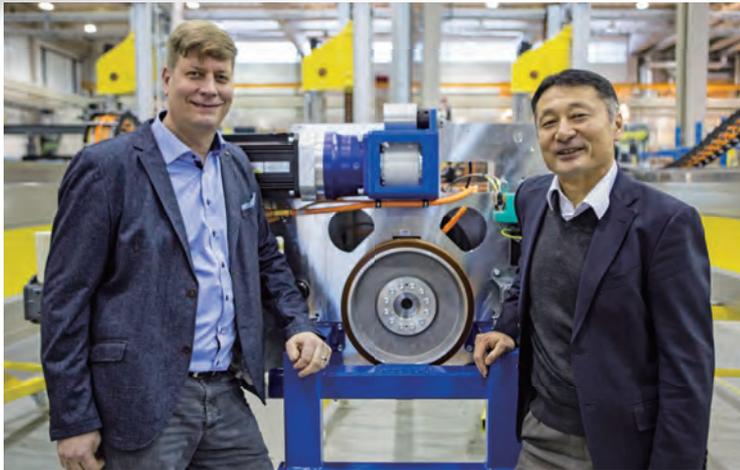


MURATEC WISHES ALL OUR READERS A SAFE AND HEALTHY PASSAGE THROUGH THIS DIFFICULT PERIOD DUE TO CORONA VIRUS PANDEMIC

Muratec as a responsible global corporate, along with its local partners in all countries, is strictly following the norms and guidelines set up by local authorities relating to the crisis, in conducting our business with the primary objective of well-being of all stakeholders.

Muratec India Times



Pekka Natri (left), Cimcorp's Head of Operations in India, with Masatoshi Wakabayashi, CEO



Cimcorp accelerates growth with opening of new office in Chennai, India

Cimcorp establishes an office in Chennai in response to growing demand for tire industry automation in India

Ulvila, Finland – March 26, 2019

Manufacturer and integrator of turnkey robotic handling solutions, Cimcorp opens its new location in Chennai, India, this June, enabling the company to serve Asian customers better and faster.

An addition to the group's existing locations in Asia, the new Indian office supports Cimcorp's growth strategy. According to Masatoshi Wakabayashi, CEO at Cimcorp, "The decision to expand our presence into India is a logical step at this point. Our office is located in Chennai to enhance our ability to serve both current and future customers in India. The facility will also be our customer support location for Indian clients," he continued, "enabling us to expand the comprehensive service network we provide in partnership with

our parent company, Murata Machinery Ltd."

Cimcorp's decision to establish a base in Chennai is in response to growing demand for automation in India's tire industry and strengthens the company's position as a leader in material flow automation for tire manufacturing.

Pekka Natri appointed as Head of Operations in India

Cimcorp has appointed Pekka Natri as Head of Operations in India. Natri has a long track record in international business, and has worked in India before – first during the 1990s and then for a longer period in 2007-2011. "I am excited to step into this role and help Cimcorp to reinforce its presence in Asia," said Pekka

Natri.

As well as being responsible for finding the perfect location, near customers, Natri has been working alongside local recruitment specialists to get the best people for the company's Indian team: "This is a tremendous opportunity for Cimcorp's growth and for me personally," he said. "I am confident that, with the competence and professionalism of our Indian personnel, we can support our customers to enable them to focus on their core business even better than before."

Masatoshi Wakabayashi said: "Pekka Natri demonstrates strong leadership and expertise, making us certain that this investment will provide an immediate, positive impact – not only for our customers, but our employees as well."

About Cimcorp

Cimcorp Group – part of Murata Machinery, Ltd. (Muratec) – is a leading global supplier of turnkey automation for intralogistics, using advanced robotics, material handling and software technologies. As well as being a manufacturer and integrator of pioneering material handling systems for the tire industry, Cimcorp has developed unique robotic solutions for order fulfillment and storage for the food & beverage, retail, e-commerce, fast-moving consumer goods (FMCG) and postal services sectors. Together with its parent company, Cimcorp boasts a worldwide network of service locations. Designed to reduce operating costs, ensure traceability and improve efficiency, these systems are used within manufacturing and distribution centers in over 40 countries across six continents. For more information, visit www.cimcorp.com.

Believable ? or Not ? Muratec's IoT service MSS changes Spinning Mills.

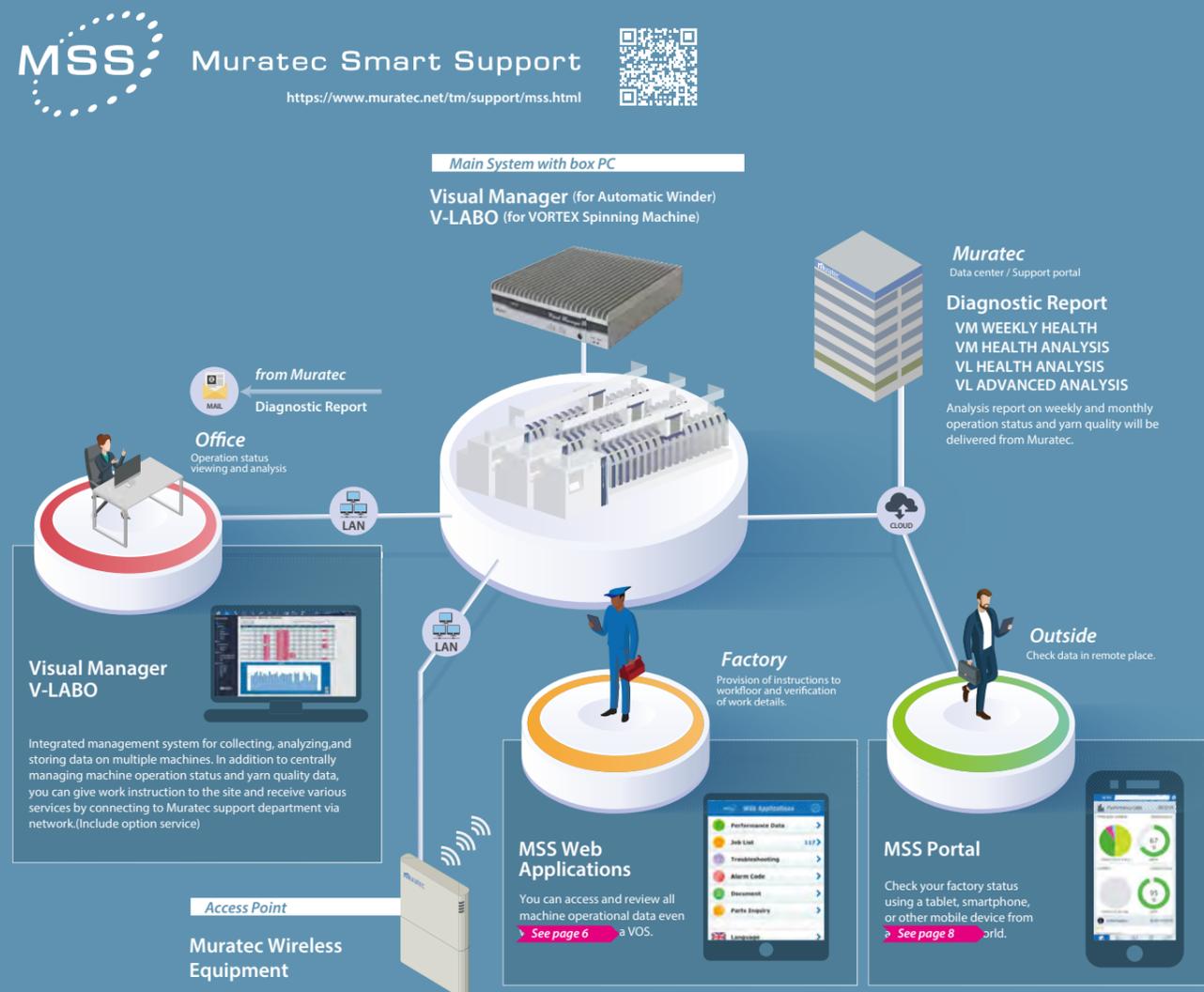
The history of the MSS (Muratec Smart Support) integrated management system which connects machines, managers, and operators by IoT, began almost 50 years ago. In advance of the spread of computerized production management, the Monitron (1975) centralized monitoring system, installed on the No. 11 Conematic automatic winders, underwent numerous advancements, before incorporating numerous functions and becoming the MSS in 2011.

Since then, MSS has continuously evolved, always seeking to provide customers with more "meaning" and "easier use", and today is used daily on 5,000 automatic winders and 1,000 VORTEX spinning machines worldwide.

For spinning companies, maintaining a high level of plant operating efficiency and quality management is a perpetual issue which is directly tied to a company's profits. Companies want to improve their plants, and continually reach newer, higher levels.

How best to manage the massive amounts of data output daily, what to input, and what actions to take? So how can the knowhow built-up by Muratec over its long history contribute?

This is the real forefront for management of the data that is continually developing at spinning plants. We will now introduce testimonials from users who quickly introduced and utilize MSS in India.



Go Beyond your Limit with Muratec Smart Support!

»» VOICE FROM MSS USERS



PATSPIN India Limited



SUDIVA Spinners Pvt.Ltd



"We have been able to further improve work efficiency by sharing MSS data in various scenes without paper list that were previously used."



"MSS has allowed the company to improve automatic winder efficiency by 10% over initial estimates, and achieve increased factory production."



"Our plant couldn't operate without MSS. It would require 4 or 5 staff to carry out collection of data and create the analysis reports at the same level as MSS."



"The MSS numerical data should be regarded not as additional pressure, but as the results of one's work; if the figures are bad, one implements measures for improvement. That's what my job is."



"So does the introduction of MSS increase the amount of work carried out on site? No, it actually decreases the amount of work required."

New system introduction



1. Premex XIO smart AGV automated guide vehicle

The Premex XIO features a compact body with a width of 700 mm, total length of 985 mm, and height of 350 mm, and is a compact floor type AGV which can load pallets up to a maximum load of 1 t.

The compact body allows the Premex XIO to travel at its maximum travel speed of 120 m/min even in narrow spaces between and even underneath production equipment.

The body (drive section) and turn table which transport loads can rotate 360 degrees independent of each other, which allows for easier access to various equipment and can better accommodate a variety of packaging types.

The Premex XIO is also equipped with safety scanners which detect obstacles, allowing for multiple units to safely travel in even narrow pathways.

In addition, for operation of multiple AGV units, optimized assignment and other operation control is carried out for the system as a whole, which makes it simple to increase and decrease the number of units in operation according to production capacity increases as well as busy and free periods.

The system replaces pallet transport and sorting carts, conveyors, and other types of fixed equipment, while also serving as a highly flexible pallet transport system that can be utilized in a wide variety of production and distribution scenarios.

2. SHUTTLINER high capacity case transport and sorting system

This product is the answer to product center issues for ever-growing distribution systems, such as in E-commerce, which require reliable sorting of large quantities of products at high speed and in high volumes.

SHUTTLINER achieves conveyor transport functionality through operation of multiple linear motor driven vehicles which run on a track, and sorter sorting functionality through use of vehicles equipped with belt conveyors which can operate in forward and reverse.

The linear motor driven vehicles are capable of smooth and economical acceleration and deceleration, and can operate in series at high speed with only small gaps between vehicles allowing for optimal assignment of up to a maximum of 50 batch operated vehicles.

Use of a belt conveyor capable of forward and reverse operation at the transfer point allows quick transfer of cases for bidirectional retrieval and restocking.

Fine control of each vehicle and optimized control of multiple vehicles allows for quick bidirectional transfer of individual units and overall operation, which in turn makes it possible for the system to carry out both product replenishment and product restocking line operations which cannot be achieved with just conveyors, while also allow for simple, space-saving, single layer layouts with easy maintenance.

Because each vehicle carries out transport individually, problems caused by conventional conveyors and sorters which operation continually, such as products falling or colliding, or case jams, are eliminated, reducing risk of product damage.

As the system connects to sorting points at right angles, it uses less space compared to sorters, which require inclined product entry routes, allowing for simpler connection to



various processes and more flexible layouts.

In recent years, a major issue facing E-commerce and other B2C businesses has been how best to establish and maintain the large product storage required in order to ensure product selection, while also shifting toward the smaller lot, frequent occurrence picking required to handle orders from individual customers.

In order to resolve these issues, the common solution that is applied is to maintain multiple product storage system and multiple picking points and connect them by conveyors used to transfer and rotate the large selection of products in large quantity cases, however with conventional conveyors which continually transport cases in only one direction, it was necessary to split systems into a double layer, top and bottom system with one product replenishment line which supplied products from the storage system to the picking point, and one product resupply line which transport cases back into automated storage and retrieval systems after picking was completed.



Message from
Mr. A.V. Srinivasan, CEO
Meiban Engineering
Technologies Pvt. Ltd.

Meiban Engineering is celebrating its 15th Year of operation in India. It is with great humility and happiness, we thank all Customers and Stakeholders for making this happen. We have also launched a logo for our 15th year of operation.



Muratec recently won "The Economic Times Best Metal Cutting Brands 2019 and Best Metal Forming Brands 2019" for machine tool manufacturers. Muratec is the only company to get the Best Brands Award in both the Categories. The Award function was held on 19th November 2019 in Pune.



Meiban / Muratec Team with Mr. Murata (Chairman – Meiban India / Vice President – Muratec Japan) holding The Economic Times Award Trophies with Meiban CEO

IMTEX FORMING 2020 Automation with Clean, Green Technology

Imtex Forming 2020 is counted as Asia's leading Exhibition and is conducted once in 2 years by IMTMA, in Bengaluru. This year, our theme was on Automation and Industry 4.0. Muratec displayed All Electric Servo Press Brake BB-4013 and Motorum-3048TG with FS2512 Cell Loader. We also exhibited our Offline Software Campath G4A along with ProcessNet Monitor-i (PnM-i).

We wanted to show our strength in TPP and its versatility in addressing various applications. Motorum-3048TG stood out as the best in combining speed, quality and consistency. Along with this M-3048TG, Flexible Manufacturing Cell (FMC) Cell Loader FS2512 completely made in Japan was displayed. With an ability to run 24 x 7, FS2512 was among the best in terms of compact design, lowest In-Cycle time of

20 seconds and fool-proof features. FS2512 comes with a separate controller Hiflex and can accommodate upto 100 schedules offering users flexibility in planning.



In spite of India being a low labour cost market, Customers are keen on automation mainly to increase the overall efficiency, maintain consistency in productivity, improved safety, minimum manpower, space constraints and reduced factory lead times. Some of our users were also looking for integration of FS Loader to their existing machines. There was also demand for low-cost automation. For such customers, Muratec offers their entry level Swing Loader SL1250. SL1250 goes with Motorum-2048TE and 2048TS.

On the Industry 4.0 front, visitors were quite impressed with ProcessNet Monitor-i and its real time feedback features.

Muratec / Meiban Team thanks all the visitors to our booth for spending their valuable time with us at the show. We also thank the large number of visitors who registered their interest in procuring Muratec technology.



Meiban – Muratec Turnkey Centre “MAKE IN INDIA”

Meiban – Muratec established the Turnkey Centre (TKC) in the year 2013. We successfully delivered our first localized turnkey machine to the Customer in 2015.

Our initial years in India showed us that Indian Market has the potential for unique and high grade technology solutions and we realized the need to develop skills locally and to offer solutions locally. Hence we embarked on a multiphase localization plan with the setting up of Turnkey Centre in our Meiban – Muratec Technology Centre in Bangalore.

Since the start of the Turnkey Centre in Bangalore, we have dispatched and installed successfully, 15 machines till the date of writing now, with localized turnkey solutions, which is in addition to a much larger number of units installed with full turnkey solutions from Muratec Japan. This has laid a strong foundation for the future course of action to expand the localization. Meiban Turnkey Centre Services are the smart choice for all manufacturing companies in automotive component manufacturing.

We start with the selection of most suitable machine and cycle time estimation by studying the customer requirements. We keep adequate number of MW Series machines in our stock thereby reducing the lead time required to supply the machines. If necessary, we also import the basic package required from Muratec Japan to meet quick delivery and to



build multiple-spindle production line needs of Customers. We have successfully established processes for procurement of peripheral equipment such as Work feeders, Post process gauging, Chucks etc. Range of machine models successfully delivered from Meiban TKC include MS50, MW100, MW120, and MW180 machines with variety of localized peripherals, to varied users in automotive component manufacturing.

This is what we, at Meiban Engineering Technologies, do for our Customers. We thoroughly review each new project focusing on project requirements, dimensional drawings, volume and cost associated with manufacturing with a key emphasis on lesser lead time to supply fully equipped machines with reduced total cost of ownership.

A great advantage about Meiban Turnkey Center is that each project will be implemented very quickly which saves lot of time, energy and money giving all technological benefits associated with importing fully equipped machines. Our Services include preparation of fully automated machines equipped with indigenously designed and manufactured equipment like Work Feeders, Orientation Units, Post processing Gauges, Work Feed Out Systems, Scrap Handling Systems, Loader Jaws and other accessories with similar performance at lesser lead time and lower cost. Meiban TKC is equipped with necessary measurement equipment and tools to conduct the Customer trials and Test cut. All these features make MET TKC a very popular Make in India Adopted Centre.

Recently, we have also deputed an Engineer to Muratec, Japan, for long term application training.



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