

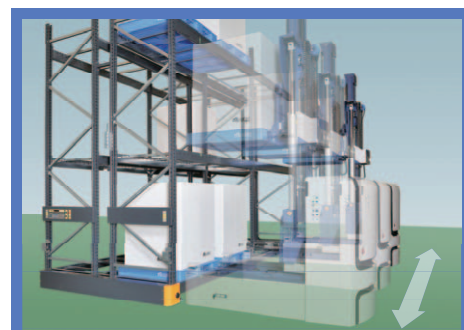
Logistics Systems & FA Systems

Simple and low-cost solution -Muratec new AGV "Premex SLX"



Premex SLX is the latest AGV (Automated Guided Vehicle) from Muratec.

The greatest feature of the Premex SLX used as an unmanned forklift is its self-navigation system. Normal AGVs require magnet tape laid across a floor or laser reflector installation on wall surfaces along the traveling route. However, the Premex SLX can automatically detect walls or obstacles in spaces where it travels and determine the optimum traveling route on its own. The Premex SLX responds to severe environments, such as freezing/frozen warehouses so operators can work and allows easy automation of load handling operations.



Compatible with mobile rack transfer.
Flexible travel in small spaces by multi-drive.



Minimized turning radius of 1.2m.

Automating your existing warehouse

AS/RS (Automated Storage/Retrieval System) is the solution for storage/control of products and semi-products in distribution centers and manufacturing plants. Even though the AS/RS is a very effective material handling system which allows for automatic receiving/delivery and storage of stock in response to the process and progress in arrival and shipping, there are various constraints in terms of installation height and cost when introducing the AS/RS in existing warehouses.

The Premex SLX can be easily coordinated with the pallet rack in an existing warehouse. In other words, this is a simple and low-cost solution that allows for "AUTOMATION of your warehouse."

Navigation	SLAM (Simultaneous Localization And Mapping)
Lifting height	4,200 mm
Minimum turning radius	Min. 1,200 mm
Vehicle size	(L) 2,290 mm x (W) 1,310 mm x (H) 2,700 mm
Recommended sectors	Automobile, Pharmaceutical, Food & Beverage, Cold/Child Environment

Textile Machinery

Great expectations for VORTEX

Our third generation VORTEX spinning machine, VORTEXIII 870, which handles roving, spinning and winding in a single machine, received an overwhelming response at INDIA ITME2012. A unique yarn structure by VORTEX spinning and functionality inherent in its structure are recognized by apparel companies all over the world.



VORTEXIII 870



In this September, we held customer seminars in 6 cities, Vijayawada, Madurai, Coimbatore, Rajkot, Ahmedabad and Ludhiana, and the number of visitors exceeded 2,000, that was much more than we had expected.

At these seminars, we had presented 'VORTEXIII 870' as well as new Automatic Winder 'QPRO' and smart customer support system by 'Visual Manager +'. During the Q & A session, we had received lot of questions on VORTEX, and customers who look to develop new markets had voiced their expectations.

For Inquiries

Logistics Systems & FA Systems

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CNC Turning Machine

Sheet Metal Machinery

MEIBAN ENGINEERING TECHNOLOGIES PVT. LTD.

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Improve your logistics operations and processes? ThinkLink and Muratec to propose the solution.

ThinkLink Supply Chain Services Pvt. Ltd.



Mr. Saurabh Goyal
Managing Director



ThinkLink Supply Chain Services Pvt. Ltd. is the leading partner for consulting, project management, and integrated systems in the supply chain & logistics domain in India. Their core belief is that value is created through innovation and optimization but is realized through Implementation.

www.thinklink-scs.com



ThinkLink Supply Chain Services Pvt. Ltd. is our partner of logistics and automation business in India. We had an opportunity to interview Mr. Saurabh Goyal, Managing Director of ThinkLink, and asked him about the Indian market as well as his opinion and expectations about the Muratec logistics and FA systems and solution.

How do you feel the logistics sector in India?

Mr. Saurabh Goyal The logistics sector in India is developing at a very fast pace. In various sectors like automotive, retail, pharmaceuticals, food & beverage, cold store etc., the operations are being complex due to the requirements of the market and scale of operations. Also, with land prices increasing, and skilled workers not easily available, business in India are moving to redesign their logistics operations and processes. This is an excellent period for introducing global best practices in the Indian market.

Is there any special concerning point to promote our logistics system to Indian Market?

Mr. Saurabh Goyal No, none at all. Muratec has world class material handling technology that can help companies in India create reliable, service oriented, and cost effective logistics systems. Because the market is at an early stage of development, we will need to work to educate customers and partner with them to create successful projects that build confidence in a new way of managing logistics. But as we have already seen, large companies are looking for solutions to change their operations and gain significant competitive advantage through use of technology. Our systems will help achieve these goals.

How are you going to respond to tough competition?

Mr. Saurabh Goyal We are in the solution business. The combined value of Muratec's world class technology, years of design and project management experience for complex material handling requirements, and ThinkLink's design and project management skills in addition to knowledge of local market is a very good combination for customers. Our goal as a team has been to introduce global best practices in the Indian market while ensuring cost effective fulfilment and high reliability. This approach makes us very different from competition that is in general looking to sell equipment and not create a solution.

How do you evaluate Muratec Logistics system from your point of view?

Mr. Saurabh Goyal I always say that ThinkLink is proud to be a Muratec partner. We believe that in Muratec we have a partner who has extensive technological and design know-how for material handling solutions. Equipment has been developed to meet requirements of 24/7 operations with high reliability, low maintenance costs, and ease of use for operators. This comes from the deep experience running into multiple decades. I genuinely believe that these Systems are equally good or better than any other similar equipment in the market anywhere in the world, and coupled with extensive design and project management skills that we bring to market together, our offering is superior to other competitors.

How do you think of logistics automation in this market? How should ThinkLink and Muratec approach Indian market?

Mr. Saurabh Goyal As I mentioned, this is a developing market and will take a few more years to mature. Having said that, in a number of sectors we are at an inflection point, so growth could be rapid. We have to take a solution view, identify right sectors that are ready for automated solutions, work with progressive companies who want to develop the supply chain and logistics concept to the next level, and create successful projects together with them. That will help set the foundation for growth over the coming years for not only Muratec and ThinkLink, but for the material handling industry in India in general.

Do you have any request to Muratec?

Mr. Saurabh Goyal Muratec has been an excellent partner and has invested significant time and resource into this market with us. The partnership approach that Muratec deploys is very useful in convincing customers to choose us and trust us with large projects. Today we are jointly developing the single largest automated warehousing project ever done in the Indian market and one of the most automated warehouses ever done anywhere in the world. So my only request would be to continue giving us the same level of support as always.

MW200G matches Indian style of mass production

Sundram Fasteners Limited



Sundram Fasteners Limited

TVS which is the founding company of the group was started in 1912 and the group is 101 years old now. The group turnover now is US\$ 6.5 billion and is one of the largest automotive parts manufacturers in India. SFL was started in 1966 (47 years) as a specialized manufacturer of automotive fasteners. Its current turnover is US\$ 525 million. SFL has won many awards in quality TPM. It is one of the very few companies in India with unique industrial relations where not a single working day has been lost since inception of the operations.

SFL was the first company in India to get ISO 9000 certification in 1990. First export was made to Daimler Benz. Currently 43% of the turnover is from exports and overseas production generating non-rupee income.



www.sundram.com

Muratec turning machines have been in the Indian market since more than 4 decades even during the days of automatic turret lathes. With the advent of CNC technology in the world in late 70's, India was one of earliest markets in the world to absorb the technology.

One of the first CNC Turning chucks 1SC from Murata Warner Swasey was installed at Sundram Fasteners(SFL) in Chennai in 1981. In 2013, Muratec has installed the latest line of MW200G with full gantry loader automation at SFL SEZ plant off Chennai.

Muratec interviewed the current President of the company who was an engineer when the 1SC was installed.



Middle: Mr. N. Balakrishnan – President, SFL
Right: Mr. A. V. Srinivasan – Meiban CEO
Left: Mr. K. Raghunandan – Muratec Advisor

How was your involvement in the first installation of Murata Warner Swasey 1SC in 1981? What was your background idea of Murata turning machines in those days?

Mr. N. Balakrishnan Modernization of the SFL plant was started in 1980. One of the bottlenecks in Forging lines was long lead time of forging dies and tools. Tool making being the mother of manufacturing technologies, SFL introduced the CNC technology with Murata Warner Swasey 1SC, for tool room. With 1SC to manufacture dies, lead time was shortened considerably. Almost all conventional lathes except 2 machines were removed and floor space was saved as well.

How do you compare your experience of 1981 with the current line of MW200G being installed in your SEZ plant?

Mr. N. Balakrishnan In 1981, 1SC was introduced in tool room for small batch and quick delivery requirement. This year the objective to introduce Muratec machines with automation was for mass production requirement. Six lines (total 12) of MW200G will replace 33 manual loading machines. At the time of this interview (end-October 2013), 4 lines have been installed, and 2 lines are under installation. In mass production requirement, we are mainly aiming at substantial reduction of manpower, consistent quality in production output and drastic elimination of rejections.

What is your expectation of Indian automotive parts business growth in India and how does SFL plan to cope with the growth trend?

Mr. N. Balakrishnan Overall growth in India should be good as long as there is no further major global recessionary trend. India has a fast growing middle age and middle economy class population, and that will surely be a positive factor for growth. We expect good increase in sale of medium and small segment cars. Biggest growth in commercial vehicles is expected in 20-ton and above class vehicles. Bulk movement, consolidation of cargo movements, land consolidation will definitely lead to this increase.



Murata Warner Swasey
CNC Single Spindle Chucker Model 1-SC (1981)

CNC Turning Machine

What is your expectation of Muratec to be a major turning machine supplier?

Mr. N. Balakrishnan Key needs for Indian style of mass production market will be multi-tasking and process integration. More intelligent machines and automation are needed to deal with shift in labour skill sets. Cutting tool technology has already advanced and is aiding the machine tools technology to achieve higher levels of output, quality, surface finish, etc. SFL expects Muratec to advance further in intelligent automation coupled with process integration to meet the needs of the future.



Muratec CNC Twin-Spindle Chucker MW200G – 6 lines x 2 machines in line (2013)

Automation interest growing – IMTEX

On 24th to 30th January this year, Meiban Engineering Technologies Pvt.Ltd and Muratec participated in IMTEX held in Bangalore, and exhibited our CNC turning machines. This IMTEX clearly showed that automation, which

is our main core competence, was the main perspective for Indian market and customers are more inclined towards automation for their high volume production.



Sheet Metal Machinery

Precision sheet metal fabricating with Muratec's 30 ton machines

MOTORUM3048TG/3058TG for 30 ton punching with latest technology is added to our MOTORUM series.

This machine combines the power and stability with the flexibility. The improvement of productivity is available by hi-speed processing with reliability and accuracy.

And new intelligent controller provides the ability to better productivity by minimizing setup time with easy operation. Advanced function, Scheduling, Turret monitor, Tool management, Simulation, these functions will give good efficiency for machine operation time.



Muratec launched sales of the world's first turret punch press machines driven by an AC servo motor. The MOTORUM series allows for optimum control of ram shaft speed and realizes energy-savings and high-speed processing. Muratec will continue to evolve its "high-processing quality and stable production" by reducing operator setup work and raising machine operating rates.

		M3048TG	M3058TG
Punching capacity		300 kN	
Maximum sheet thickness		6.35 mm	
Maximum sheet size (Y x X)	Without repositioning	1250 mm x 2500 mm	1250 mm x 2500 mm
	With one reposition	1250 mm x 5000 mm	1250 mm x 5000 mm
Punching accuracy		± 0.1 mm	

New models for Indian market!

MFX-2335B / MFX-2335 / MFX-2835R

Copy, Print, Scan, Multifunctional document handling & A3 Fax



Super G3 FAX
Up to A3 size document can be sent over telephone line at high speed

Scanner
Standard TWAIN scan to convert paper documents to digital data simply

Printer
Standard GDI printer with easy and direct connection to the PC through USB

Digital Copy
Print speeds at 23/28 pages per minute with quick warm up

Photo: MFX-2335 with ADF option

Namaste...India...

Muratec is pleased to announce the launch of its latest MFP's in India.

Taking this opportunity, I would like to add here that we are getting very positive response from other Asian and Sub-continent countries where these products were launched.

With current line-up, we are certain to cater over 70% of the A3 market requirement that includes SMB (Small to Medium Business) offices, MNC (Multi-national companies) branches/ subsidiaries and Government Tenders.

We continue our trend of producing "Complete" MFP's (Multi-function products) as FAX Feature comes as Standard in all our products whereas most of other brands sell it as an option part. Apart from this, our products are well-equipped with all the features that a Customer / Dealer may require in his Daily office / Business use.

Our products are under BIS Testing / Registration which will re-ensure that our products are durable / reliable / eco-friendly and as per the BIS regulations.

We believe, our new line-up of products would be good success in Dealer Network and Government sector as well.

Dhanyavaad / Shukriya