

MILACRON *News*

Message from Directors



Jay Woerner - Vice President
Indian Operations Milacron LLC,
Chairman - FM India

Good news for all of us is - Indian economy will stay course on growth track though growth rate will remain bit subdued due to the side effects of govt. measures to control inflation and headwinds in Global economy.

So far the industrial growth in our country was driven by the entrepreneurial spirit of business leaders. Now the government is actively involving the industry in charting out growth measures for 12th Five year plan under formulation. Therefore everyone is confident that the economy growth rate of recent past will get restored barring few ripples here and there.

We too have stayed course on our capacity expansion plans unfolded in 2009, following economy revival experienced immediately after Plastidia 2009.

Arising out of these actions we have following facilities getting ready to be commissioned.

- Our new paint shop is getting commissioned with state of art facilities, complying with current environmental regulations as per ISO 14001:2004.
- Adding New assembly bays for higher tonnage machines.
- Modern State of art CNC machining centers are installed for ensure top class machining quality while the production is ramped up.

Resulting in delivering the machines as per the market expected lead times.

Being the leading technology producer, our customer expect from us to bring out new products and services, which clearly differentiate their performance and win their customers, along with increased returns on investments.



Mahendra N. Patel, Director

We are aware of the same and working on :

- Product Development projects are on anvil in line with customer expectations - Application specific, Energy efficient, High Productivity and Part quality and consistency, along with high reliability.
- Enhance skills and knowledge of manpower by training courses for various levels.
- Installing "Customer Portals" to have fast communication, and solutions for our Customers with use of I.T. Systems.

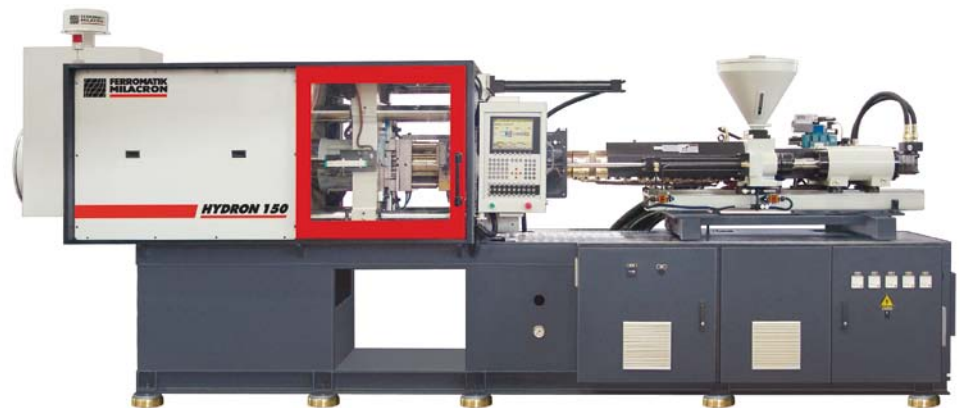
Ferromatik Milacron is committed to realize our vision statement "Finding A Better Way" in all our actions and gearing up to be the supplier of choice in all the application segments and markets, while maintaining the leadership position in the coming years, as the largest manufacturer of Injection moulding machines in India.

Lead Story

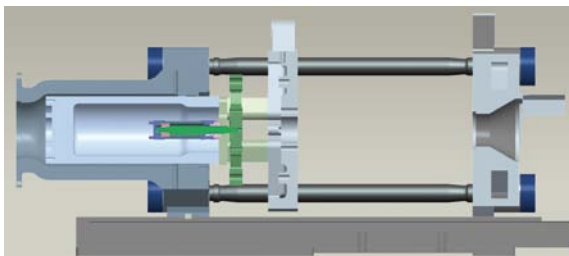
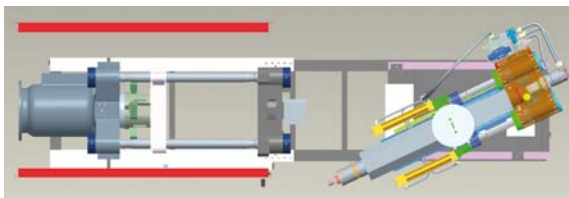
Hydron Series - Success behind worthy work-horse from Ferromatik Milacron stable

Ferromatik Milacron successfully synchronized 'Unique combination of speed and precision through introduction of Hydron series to meet the market requirement for the packaging class machines.

Modularity, both in injection and clamp side has imparted freedom in selection as a separate identity, though functionally appeared as one unit, thus shortened delivery schedule to meet vigorous market demand. Augmentation of our most popular Omega series, catering almost all segments persuaded us to redefine upper market segment through addition of Hydron series for further consolidating focus towards greener environment.



Hydron series helps in increasing productivity by



- Supporting high speed cycling with robust, reinforced base construction and rigid platens with strength to weight ratio imparted by FEA (Finite Element Analysis).
- Higher mould weight carrying capacity
- Energy efficiency through servo and electronically controlled variable volume Pump and optimized manifold design with minimal losses.
- Enhanced injection power through twin injection cylinders with balanced twin LM Guides with reduced friction.
- Swiveling facility for ease of maintenance.
- Homogenized melt through optimized screw profile and precise PID controller.
- Five stage Injection speed and pressure control in filling phase with position/ time based change over, contribute to produce stress free component with excellent repeatability and weight consistency.

The direct hydraulic clamp has the following benefits:

- Centrally and evenly distributed clamp force due to rigid skates and platen design offers lower locking pressure for packaging application.
- Less friction design of hollow headless ram with mono seal, offers faster clamp

speed and **outstanding mould safety** due to lower mould closing force and meter out hydraulic control.

- Generous clamp daylight availability for deep draw parts and stack moulds.
- Excellent Platen parallelism.

In nut shell Hydron's performance in productivity, consistency and repeatability made it a worthy work-horse from Ferromatik Milacron stable – not only for packaging sector, but, for moulding functional parts as well.



Typical Product Data

Name of the Article	500 gm. Food Cup	4 Ltr. Container	20 Ltr. Container
Material	PP	PP	PP
Wt. of Article (gms)	14	197	860
Machine Model	HYDRON 150	HYDRON Servo 150	HYDRON 450
Cycle Time (sec.)	5.5	16.8	25.5
No. of Cavities	2	1	1
Power Consumption (Unit/Kg.)	0.90	0.32	0.40

Events

Shri. S. J. Taparia of The Supreme Industries visits FMI

It was a memorable day for us when warm-affectionate- man of down to earth, Shri. S. J. Taparia, Managing Director of The Supreme Industries and our patron of many years, made it possible to visit our works on April 8th, 2011.

We delivered India built first 1300 Ton machine to The Supreme Industries and the same has been released by Shri. S. J. Taparia to grace the occasion. It is a matter of pride for FMI that Supreme Industries has housed several of our machines at their factories across the country.

We pray for our mutual association to continue for ever.



Shri. S. J. Taparia of The Supreme Industries releasing Maxima 1300 at FMIPL Plant on April 8th, 2011



Shri. S. J. Taparia of The Supreme Industries, planted a sapling at FMIPL on 8th April, 2011

Tips

What can processors do to thrive and not just survive ?

- **Know your core competency** and find efficiency within it.
- **Empower your employees.** If you ask your employees what you can do better, they will tell you. They have good ideas and if you include them, it makes them feel better about everything they do.



- **Continued Investment in Technology** is needed to drive your company long term. Running at status quo will not keep you operating profitably.
- **Spend the time to understand your customers' needs** and to really address those needs.
- **Be energy efficient.** At every level of the company, you should be conscious about saving energy and expense.
- As an organization, as a moulder, **understand what it is that really differentiates you.** "How are we going to be different from every other person that's moulding a part?"
- **Be the company that has a little bit of vision to anticipate where things might be five years from now.** That starts to carve out the niche, starts to differentiate itself a bit as being more of an expert in a particular area. Continue with your core business, but start carving out that niche.
- **Training is important.** If you require your employees to learn more, they can run the equipment better and you can cut your cycle times and make more parts.
- **Improve your process.** Improve efficiency, and reduce running costs.

Exhibition

Milacron companies have many solutions to serve food and beverage industries. So, we never miss any opportunity available for us for being seen. Ferromatik Milacron India participated in participated in 'PET+Drink Tech Asia 2011' held in Kolkata from 27th - 29th August, 2011.

We demonstrated our technologies through Product Exhibits & Catalogues. The Industry response was extremely encouraging during exhibition. Visitors sought to understand newer technologies with keen interest, confirming once again faith that people in plastic industry are keen learners with an open mind.



FMI stall at PET+Drink Tech Asia, 2011 in Kolkata



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