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MESSAGE FROM MANAGING DIRECTOR



Shirish V. Divgi

Dear Readers,

Greetings from Ferromatik Milacron India!

We are happy to share that our in-house event "Open House" had an overwhelming response, which was organized at our Ahmedabad based Manufacturing Facility during 11th to 13th October 2012. Over 600 nos. of visitors, including Plastics Processors & other Business Associates from Plastics Industry, from India & abroad visited our event. We thank all the visitors for spending valuable time at our open house.

During Open House, we impressed visitors with live demonstration of our New Generation, Energy Efficient & High-Performance Injection Moulding Machines - Maxima Servo 3200 Ton (India's Largest

Built Injection Moulding Machine), Nova Servo (New Range of Servo Injection Moulding Machines) & Elektron 450 Ton (1st & Largest India Built All Electric Machine). Along with this, visitors took our facility tour with keen interest.

Ensuring consistently High Product Quality, optimizing Production Capacity Utilization and minimizing Downtime will become increasingly important for reasons of successful business in the future. The manner in which this objective can be achieved using our newly launched machines were also demonstrated during open house.

Our objective was to demonstrate from small to large tonnage Energy Efficient & High Performance Injection Moulding Machines. For this purpose, we exhibited our machines equipped with enhanced features & specifications having wide combination of Injection Unit with Clamp, which offer Global Technology at Local Cost. The Indian Moulders now do not have to look at overseas manufacturers for large tonnage machines any more.

Ferromatik Milacron India (FMI) team is excited about the feedback received. The visitors were particularly impressed

by **FMI's New Product Series - Nova Servo**, which is Energy Efficient & High Performance Injection Moulding Machine, having Compact Footprint & Highest Value Propositions. The unanimously favorable feedback from visitors regarding the entire event as well as the individual points of the programme confirmed that our focus on "New Developments" precisely reflected the visitors' interests.

I sincerely welcome your suggestions for any improvement which we can address in our future Open House.

Also we successfully participated in PET+DRINK Tech Asia 2012 Exhibition at Coimbatore & Indplas 2012 Exhibition at Kolkata.

Thank you once again.

Good wishes and Best Regards.

Visit us @ PLEXPOINDIA 2013

8 - 13th January 2013

Hall No. 6 • Stall No. S/20

Venue : Helipad Ground,
Near Mahatma Mandir,
Gandhinagar (Gujarat)
India.





OPEN HOUSE

Ferromatik Milacron India's Successful Open House



Open House at Ahmedabad based Manufacturing Facility

During 11-13th October 2012, Ferromatik Milacron India (FMI) held Open House at its Ahmedabad based manufacturing facility.

The event saw over 600 visitors including Plastics Processors, Suppliers, Processors' Associations, Educational Institutes, Polymer Producers and Distributors from India and abroad.

Visitors took this opportunity to witness the live demonstration of FMI's India Built High Performance Injection Moulding Machines, which was the main focus of the event.

Along with this, visitors took our facility tour with keen interest.

On 11th October 2012, FMI launched;

MAXIMA SERVO 3200 Ton (India's largest Injection Molding Machine)

- Two Platen Injection Moulding Machine
- Robust & Compact Design
- Offers Lower Operating Cost, Reduced Foot Print, Greater Flexibility in terms of Clamp Stroke & Daylight
- End Application Segments - Automotive, Consumable Durables, Large Houseware Products, Pallets, Furniture, Industrial Products, Trash Bins, etc.

NOVA SERVO - 50 to 200 Ton (New Range of Servo Injection Molding Machine)

- Toggle Injection Moulding Machine
- Energy Efficient - High Performance Machine
- End Application Segments - Electrical, Writing Instruments, Automotive, Caps & Closures, etc.

ELEKTRON 450 Ton (Largest India built All Electric Injection Molding Machine)

- All Electric Machine - The Green Machine
- Energy Efficient, Fast & Precise, Clean & Quiet & Environment Friendly Machine
- End Application Segments - Medical, Packaging, Electricals, Electronics & Communications, etc.

Shirish Divgi, MD, Ferromatik Milacron India said that "The new product shall expand our market footprint & help our customers to become more competitive with energy efficiency as its focus. The Large Tonnage MAXIMA SERVO 3200 T Machine is a landmark achievement in FMI Journey so far."



EXHIBITIONS

FMI at Indplas'12 & PET+DRINK Tech Asia'12

FMI successfully participated in Indplas 2012 - 6th International Exhibition on Plastics at Kolkata, India during 5-8th October 2012 & in PET+DRINK Tech Asia 2012 - Asia's No.1 Exhibition on PET, Plastics, Packaging & Drink Technology at Coimbatore, India during 19-21st October 2012.



Lighting of lamp by Dave Lawrence



FMI Team at Open House



Shri Mahendra N. Patel addressing FMI Team & Visitors



Visitors at FMI Open House



FMI's New Launch - Maxima Servo 3200 Ton



FMI's New Launch - Nova Servo (50 to 200 Ton)
New Range of Servo Injection Moulding Machine



FMI's New Launch - Elektron 450 Ton





GUIDE TO SURFACE DEFECTS

Guide to Surface Defects on Thermoplastic Injection-Moulded Parts

Introduction :

This guide is designed following the same method you should apply for process optimisation. The first visual inspection of the moulded part is followed by defect identification and classification, so that suitable remedies can be initiated. For that purpose, however, fundamental procedures for systematic mould proving must be known and clearly defined. Another aid is provided in the form of a list of important key information on the technology of material, machines, moulds and peripheries.

Chapter 1 :

Defect classification (identification)

1.2.2 Moisture streaks

Moisture streaks often appear on the surface of the moulded part in the form of a U-shaped profile, open towards the direction of the flow. In most cases, the surface around the silvery streak is rough and porous. Moisture streaks, resulting from moisture on the mould surface, appear as large, dull and lamellar areas.

Figure 2.2.1 Streaks due to excessive moisture content of the granules

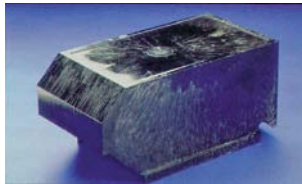


Figure 2.2.2 Left : Streaks due to moist granules
Right : Streaks due to moisture on the mould surface

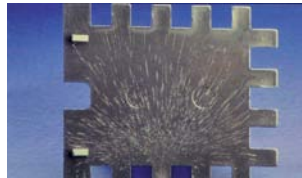


Figure 2.2.3 Streaks due to high residual moisture in the granules

1.2.3 Air streaks

In most cases, air streaks appear in the form of dull, silvery or white streaks and often around domes, ribs and abrupt changes in the wall thickness. Near the gate, lamellar streaks may appear, originating from the gate. Air streaks also appear near letters or depressions.

Figure 2.3.1 Air streak due to entrapped air



Figure 2.3.2 Streak (near the gate) due to air drawn in during decompression

Figure 2.3.3 Air streak behind an abrupt change in the wall thickness



1.2.4 Coloured streaks

Coloured streaks are the result of an uneven distribution of the used colorant or of a different orientation of the pigments due to the flow process.

Thermal damage and strong deformations on the moulded part, e.g. due to excessive demoulding forces, can also cause colour differences.

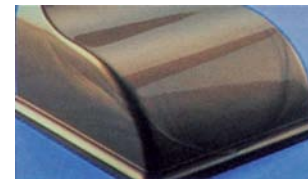


Figure 2.4.1 Orientation of metal-effect pigments caused by the flow



Figure 2.4.2 Coloured streaks near a weld line



Figure 2.4.3 Colour streaks due to an incompatible master batch



Figure 2.4.4 Streaks around primary and secondary weld lines

Note: Materials with metallic pigments are particularly prone to this defect.

to be continued in next issue...