

AUTOMATION CASE STUDY



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ARM Montreal
CANADA

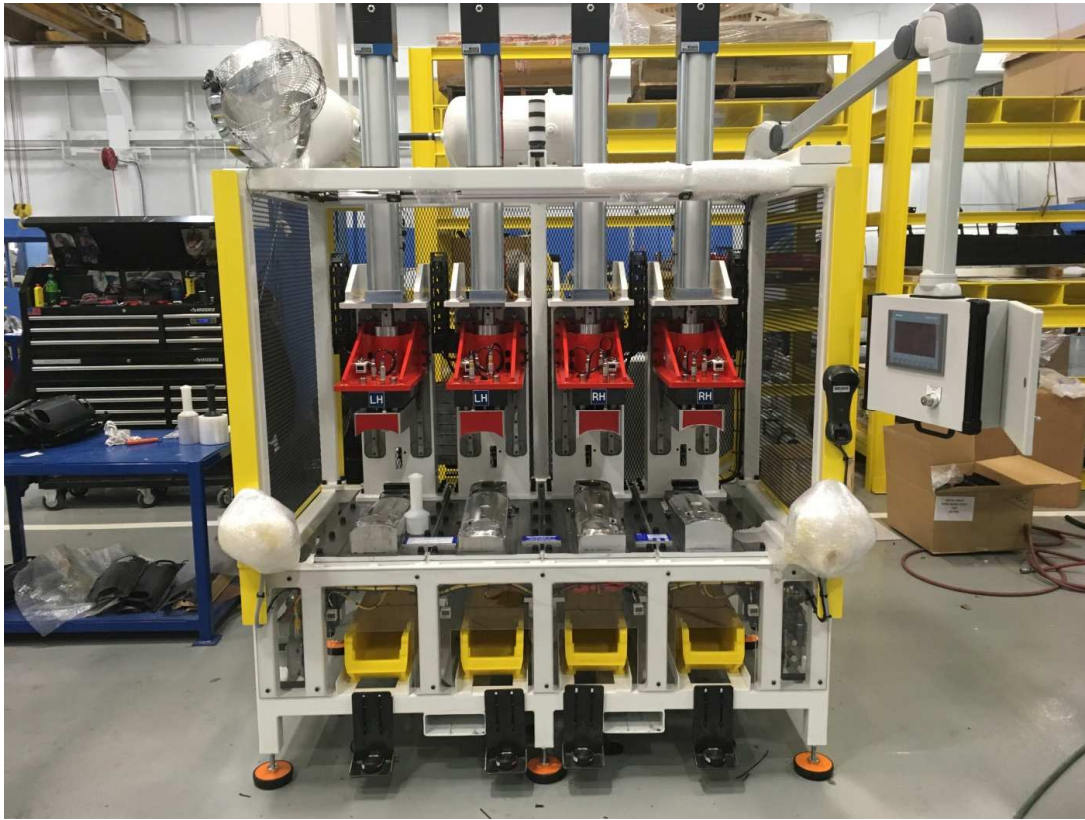


Why Automation?

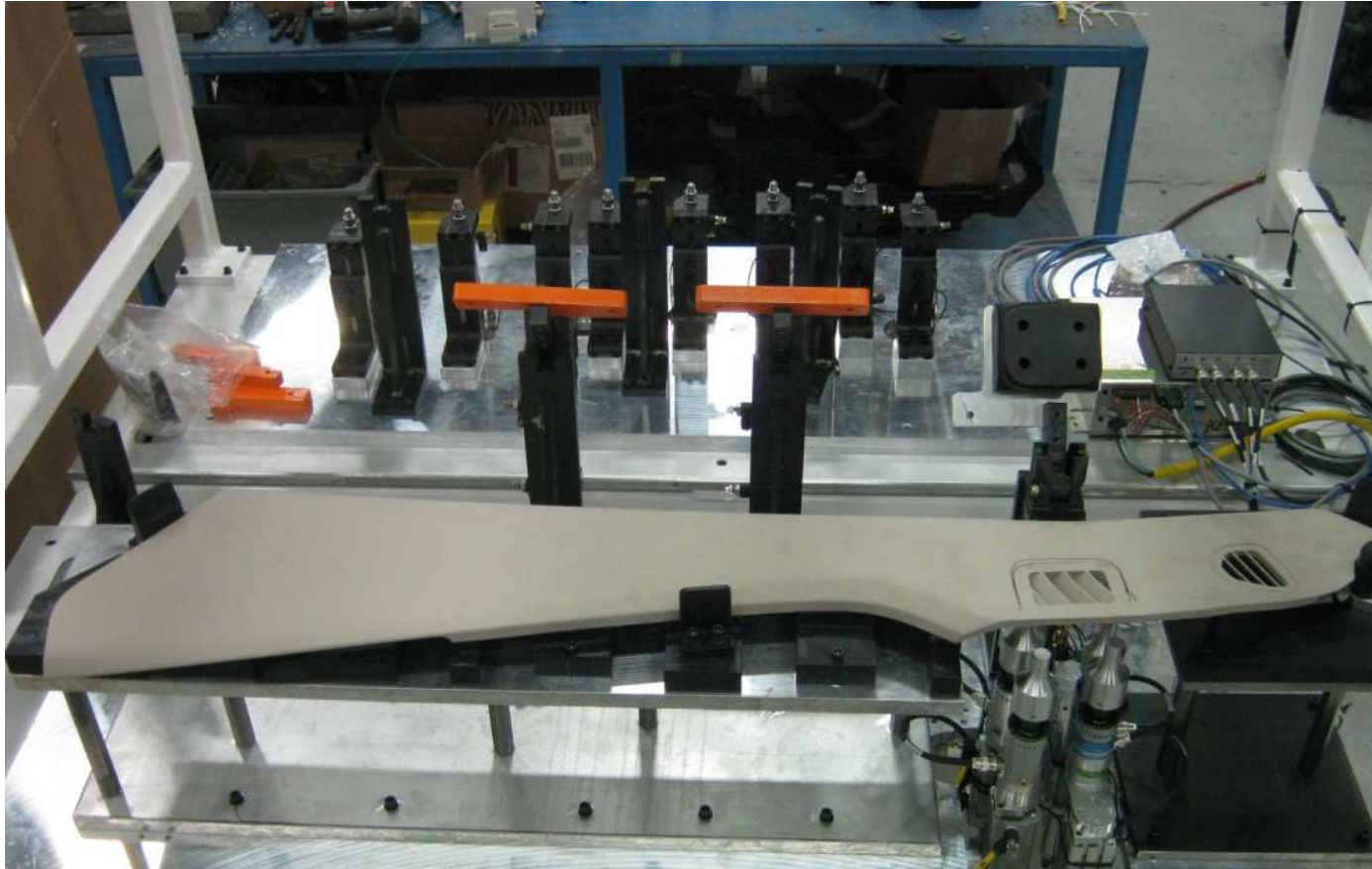


- Quality consistency
- Scrap reduction
- Human resources aspects
- Manufacturing costs optimization

What other industries are doing?



What other industries are doing?



*Ford Console side
Clip machine*



Challenges for Rotational Molding industry



- Costs sensibility
- Flexibility required
- Annual volume of production
- Industry culture
- Short programs overview – time to market
- Retrofitting existing equipments to automation



Today:



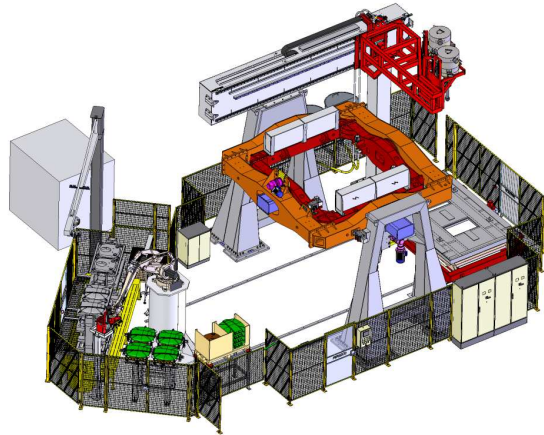
- Pneumatic clamps
- [Automatic spiders switch](#)
- Material dosing systems
- Controlled venting
- Interaction machine-process
- Secondary operations (CNC – [gasketing](#))
- [Automatic forklift](#)
- Automatic molds opening/closing



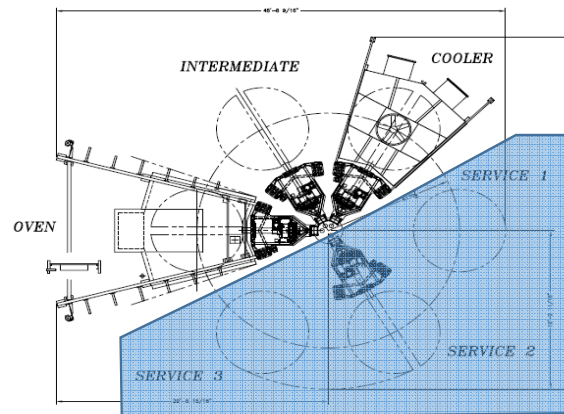
Tomorrow:

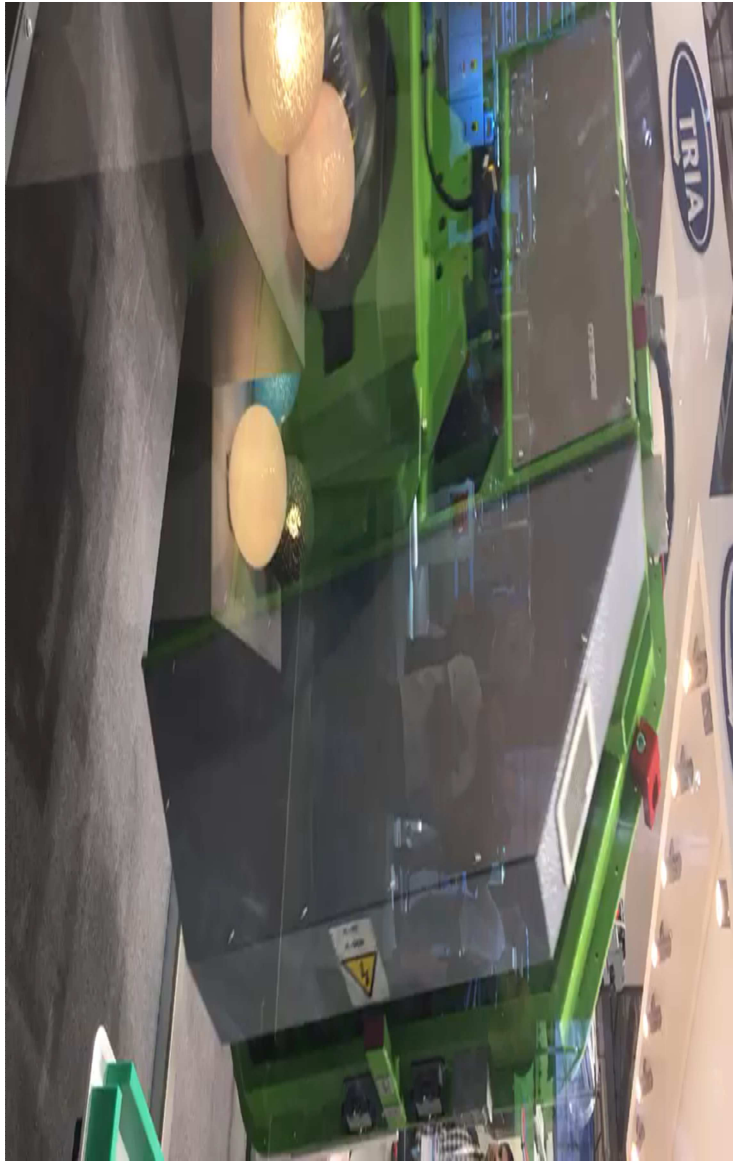


More fully automatic machinery with multiple processes integrated

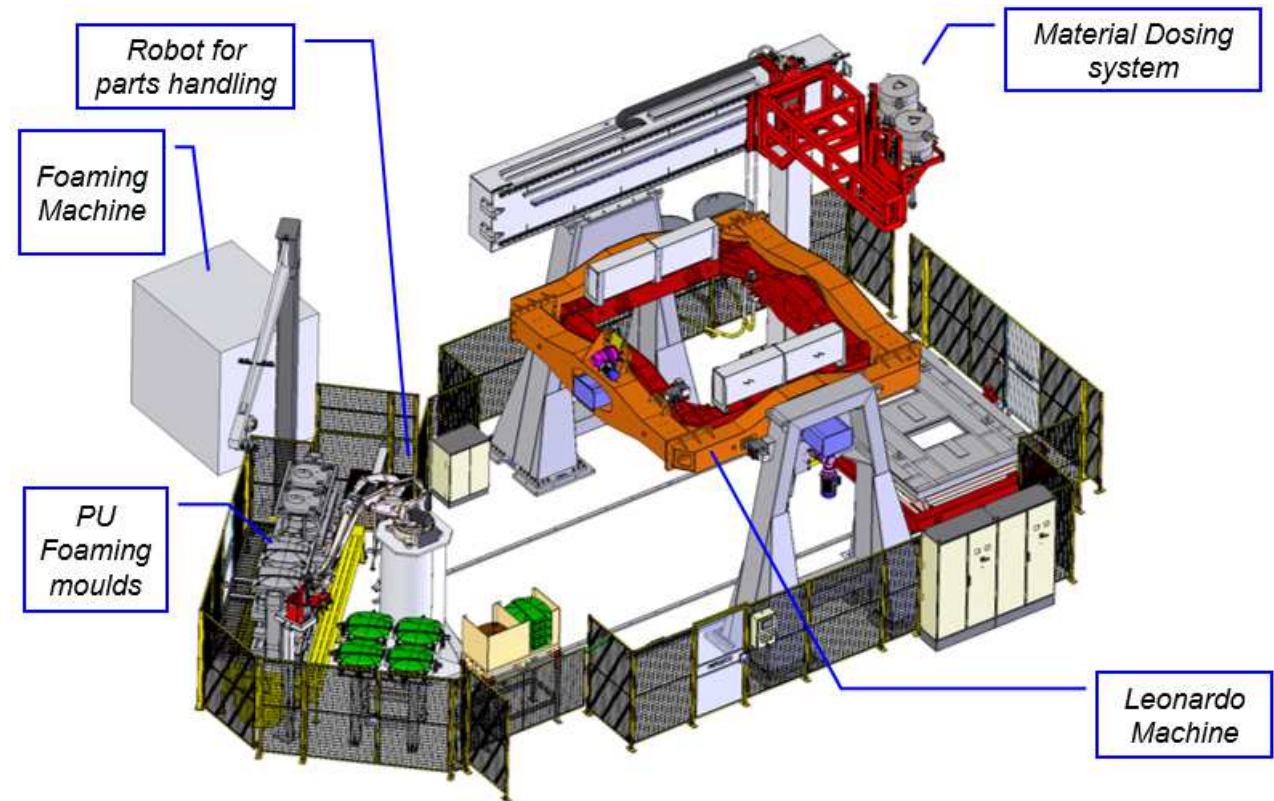


Automation systems applied on standard rotomolding machines

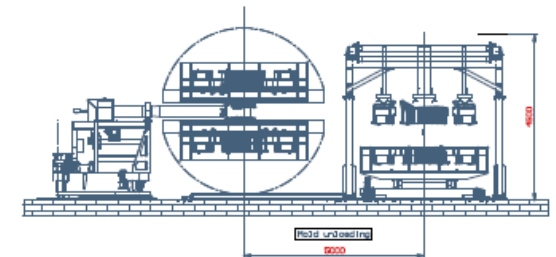
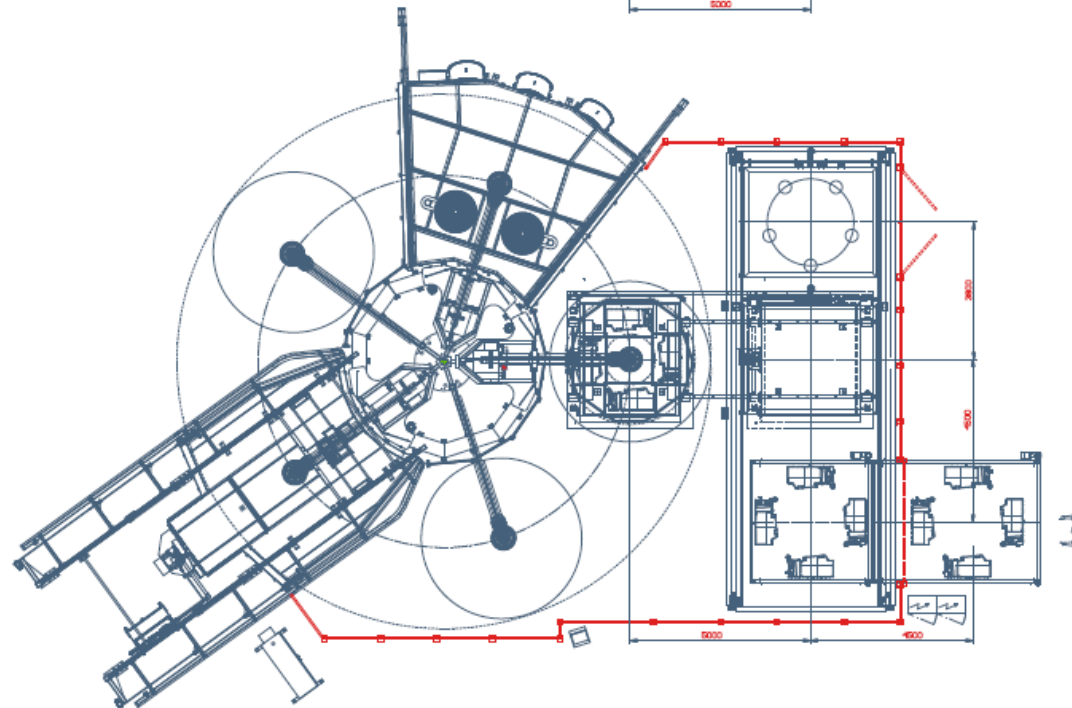
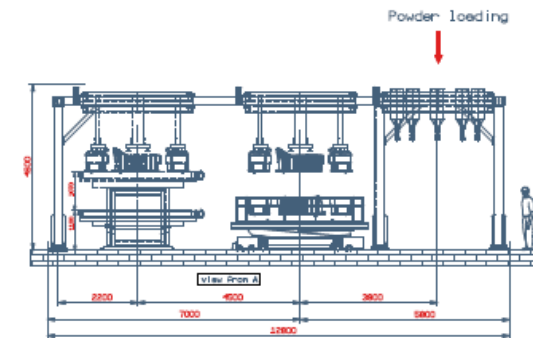
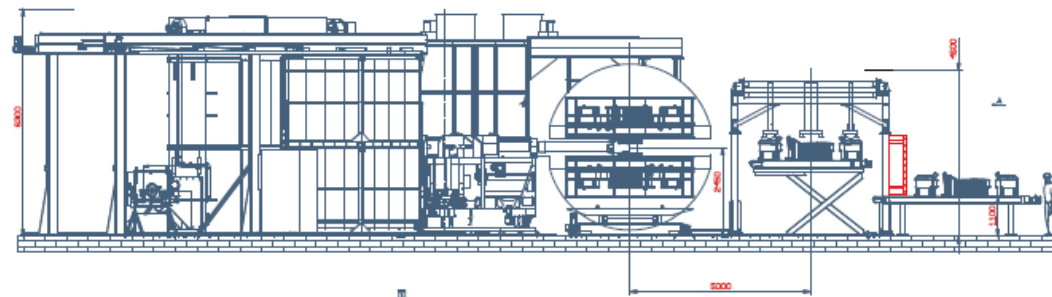




More fully automatic machinery
with multiple processes
integrated



Automation systems applied on standard rotomolding machines



In collaboration with:





Questions?

Thanks for your attention!

*Sergio Zilioli – **Persico***
*Carsten Erkel – **Elkamet***

