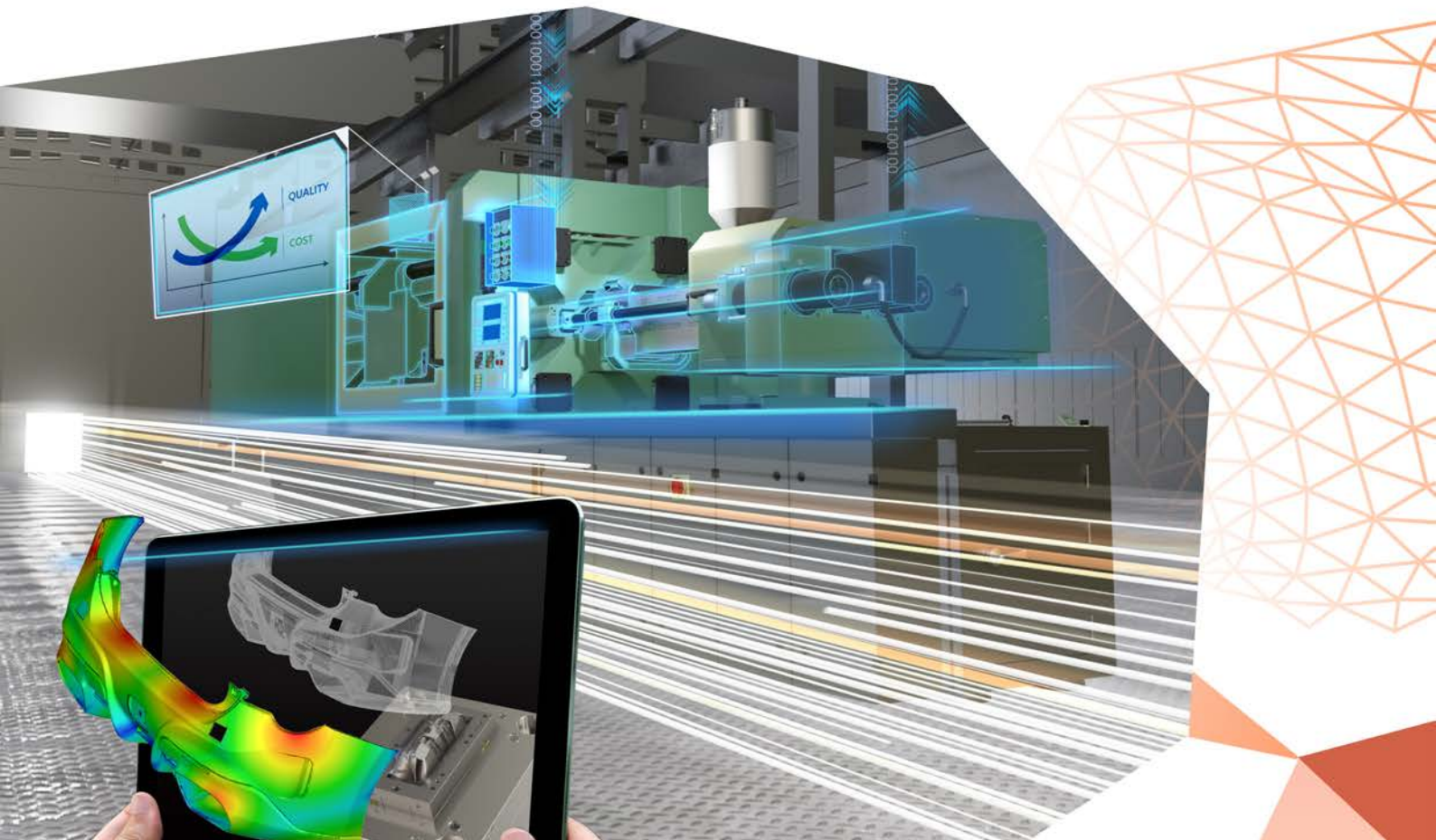


## Machine Characterization Service

Connect your simulation to manufacturing

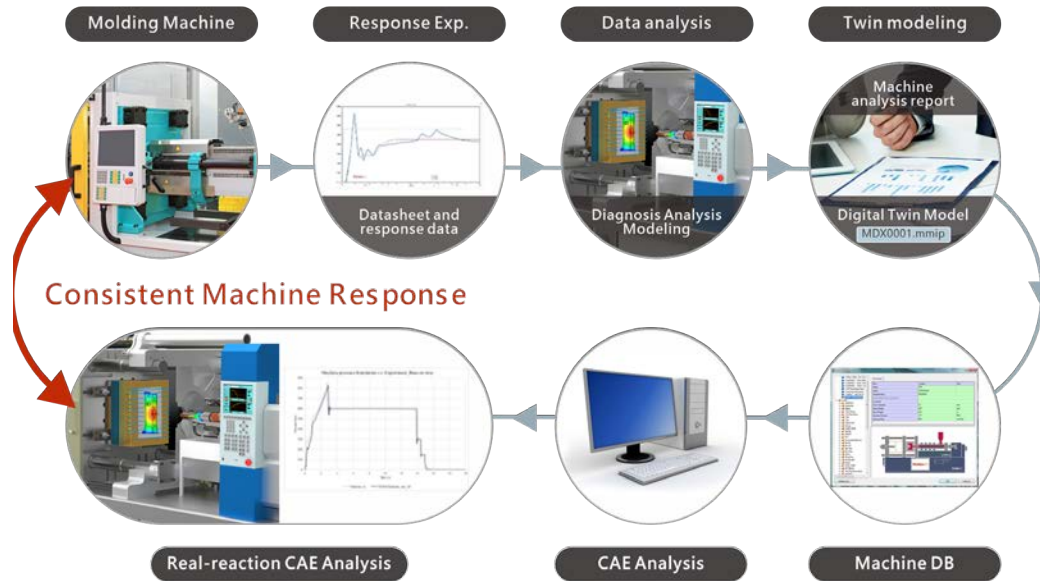
Moldex3D Machine Characterization Service plays an important role by creating digital twins for smart manufacturing. The service bridges the gap between simulation and production by incorporating CAE simulation with physical characteristics and dynamic responses of actual molding machines. Through this service, optimized process conditions generated by Moldex3D simulation can be directly applied to shop floor to significantly reduce the time and cost of mold tryouts.



# Our Services

- Collect and analyze dynamic response data of molding machine
- Create model file of Moldex3D machine digital twin (\*.MMIP)
- Provide professional report of Machine characteristics analysis

Analysis items of machine characterization		
Specification Analysis	<ul style="list-style-type: none"> <li>■ Speed Specification</li> </ul>	<ul style="list-style-type: none"> <li>■ Pressure Specification</li> </ul>
Performance Analysis	<ul style="list-style-type: none"> <li>■ Speed Response</li> <li>■ Switch Position</li> <li>■ Charge Stroke</li> </ul>	<ul style="list-style-type: none"> <li>■ Pressure Response</li> <li>■ Response Time</li> <li>■ Delay Time</li> </ul>
Manufacturing Analysis	<ul style="list-style-type: none"> <li>■ Manufacturing Stability</li> <li>■ Backflow Analysis</li> </ul>	<ul style="list-style-type: none"> <li>■ Potential Issue</li> </ul>



# Benefits and Advantages

## Identify the characteristics and status of machine

- Identify physical characteristics of the machine
- Identify actual dynamic responses of the machine
- Evaluate production stability and related potential issues

## Bridge gaps between simulation and manufacturing

- Enable simulation considering actual molding response of machine
- Enable simulation results approaching real molding patterns
- Generate process conditions fit in real setting of molding machine

## Connect simulation to real production

- Able to directly apply CAE process conditions on shop floor
- Reduce the time and cost from mold tryout to production



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