

2022 CGI MES Product Survey



What's inside

For the past two decades, the CGI MES Product Survey has tracked the most relevant manufacturing execution systems (MES) products and trends, serving as an invaluable guide for manufacturers to choose the perfect-fit MES solution. Today, our survey has become the premier market reference for MES products in the global manufacturing industry. In the 2022 edition, we have expanded our service offerings to keep pace with the growing needs of the MES community.

What the 2022 edition reveals

As in previous years, we observe several trends and developments by analyzing the survey data. We see the trend of more and more MES products for continuous and discrete processes continuing, partly driven by the rising emphasis on advanced analytics.

Where some MES products focus on specific industrial sectors, it's clear that a growing number of vendors are widening their market focus. The food and beverage and automotive sectors remain the most popular industry sectors and have achieved a high level of maturity.

Regarding implementation, almost all vendors indicate they support their clients with best practices and tools to help drive successful product implementations, including delivering implementation services and support through prototyping and blueprinting. Our 2022 report links to the thesis “Examining factors for achieving successful implementation of Manufacturing Execution Systems” by Jonah Matthijs, a mixed-methods study supported by CGI in cooperation with the Eindhoven University of Technology, Department of Industrial Engineering & Innovation Sciences of the Human Performance Management Group.



Why you should request a copy today

Choosing an MES that best suits your business needs is a complex process. In addition, the shift toward Industry 5.0 and digitally integrated and intelligent supply chains has made the task more challenging.

The survey's detailed product information and insights help you navigate the complex MES market and choose the solution that best suits your unique environment and digital transformation roadmap to achieve manufacturing excellence.

To enquire about a copy of the 2022 CGI MES Product Survey, please contact our Australian Manufacturing expert [Bruce McCole](#).



Highlights

The 2022 CGI MES Product Survey is a comprehensive 366-page report that commences with the latest observations and trends in the manufacturing industry and describes the impact of Industry 5.0 on MES. In this context, it explains the role of MES in manufacturing and describes the key aspects of an MES selection process. It also provides an MES blueprint architecture and a roadmap for both MES and Manufacturing Operations Management (MOM).

The report focuses on multi-site and building block-based templates for MES, which are relevant for deployment and rollouts. It provides guidance for implementation approaches and operational models and explains the basic terms and definitions related to MES and manufacturing IT.



The report also highlights the trends that emerged from vendor responses. It includes 20 MES product information sheets that comprise vendors' detailed responses, intended to enable manufacturers to accelerate the evaluation of MES products.

This includes:

- Support for the various production and logistic typologies (continuous, batch/semi-process, discrete)
- Vendors' focus on market segments
- Support of manufacturing operations as defined in MESA's latest model
- Degree of coverage of manufacturing / production operations
- ISA-95 compliance – activity model
- Methodologies and tools for rollout
- Support for multi-site rollout
- Availability of helpdesk and language support
- Licensing structure: cost and users
- Configurability
- Vendors' quality assurance systems
- Validation and regulatory compliance
- Energy management (ISO 50001)
- Projects: cost and users
- Supported platforms
- Other technical aspects such as databases, architecture, interfaces, mobile solutions, etc.



About the survey

Based on our previous MES Product Surveys, online research and contacts across industrial networks, we invited the most relevant vendors of standard MES products to participate in the survey.

Participating vendors provided information on their MES products, strategy, focus areas and implementation experience through an online questionnaire. Manufacturing experts within CGI’s MES Center of Excellence in the Netherlands compiled all the answers, conducted in-depth analyses and derived insights shared in the report based on the data generated.

Products surveyed from participating vendors

Vendor	Product
Astrée Software	Aquiweb
AVEVA Group plc	AVEVA MES
Brighteye	Momentum
Creative IT	Qubes
Critical Manufacturing, S.A.	Critical Manufacturing MES
CSM systems AG	DIAMES
Dassault Systemes	DELMIA Apriso
Delfoi Oy	Delfoi Planner
İletişim Bilgisayar Yazılım	CoralReef MES
Infinite Functions, Inc.	Floormation
iTAC Software AG	iTAC.MES.Suite (iTAC.MOM.Suite)
Lighthouse Systems Ltd	Shopfloor-Online
MESTEC	MESTEC
MPDV Mikrolab GmbH	HYDRA
NearSoft	MOM4
NoMuda Ltd	VisualFactory
Operator Systems A/S	Operator

About CGI in Manufacturing

For over four decades, we have helped leading manufacturers navigate and seize the opportunities of change. With deep industry and technology expertise, our consultants work with you to improve business agility to drive efficiencies and reduce costs as you continue to advance your strategic goals.

Through our strategic IT and business consulting services, systems integration, IT managed services and intellectual property solutions such as [Manufacturing Atlas](#), we help you realize the promises of Industry 5.0 to enable new business models, offset margin pressures and optimize your value chain.

Moreover, Industry 5.0 objectives of sustainability and human awareness are ushering in a new era in manufacturing. To stay ahead, manufacturers need to reimagine everything—from operations and processes to organizational culture and mindset. [Unified Manufacturing](#) is our vision of how technology and innovation can help you respond to and navigate this exciting future.



Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world.

We are insights-driven and outcomes-based to help accelerate returns on your investments. Across hundreds of locations worldwide, we provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

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