



HEXAGON

MINIMUM INSTALLATION REQUIREMENTS

eMMA SOFTWARE SUITE



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1 EMMA MDM SERVER

Backbone for the communication with Clients and databases.

Possible Operating systems incl. (Minimum-) version	Windows Server 2016
MDM Database	Minimum MS SQL-Server 2012 or Oracle 12 or Postgresql (contact us)
Network	TCP/IP Port for HTTP(s) connections, JDBC connections to the MDM database
Java Runtime Environment	JRE 11 (we deliver a local Java 11 installation with our applications)
Memory (RAM)	Minimum 16 GB dedicated** (more if other apps run on the server)
Disk Space	Minimum 100 GB dedicated** to be expanded on demand (Windows System not included)
Other Requirements	<p>Packages/Modules of the connected systems and applications</p> <p>Graphic adapter: when working with simple inspection plans and small geometries, no dedicated graphic adapter is required.</p> <p>In the case when the server is also used as a workstation: When working with eMMA implies complex assemblies, big geometry files, or optical measurements, a dedicated graphic adapter is necessary (Nvidia,...) with Min. 4Gb dedicated graphic memory.</p>

2 EMMA CLIENT

User Interface for the measure data management.

Possible Operating systems incl. (Minimum-) version	Windows 10 Pro
Network	TCP/IP Port for HTTP(s) connections
Memory	4 Gb dedicated**
PDF	Adobe Acrobat Reader
Java Runtime Environment	JRE 11 (we deliver a local Java 11 installation with our applications)
Other Requirements	3D graphical support from OpenGL 4.8

3 EMMA 3D (ILLUSTRATOR, PLANNER, ANALYST)

Graphical User Interface for the illustration/creation of the templates, for the assembly measurement planning and for analysis of tactile and optical measurement results, as well as virtual assembly.

Possible Operating systems incl. (Minimum-) version	Windows 10
Network	TCP/IP Port for HTTP(s) connections Port number 8089 must be opened for incoming and outgoing connections
Memory	4 Gb dedicated**
PDF	Adobe Acrobat Reader
Java Runtime Environment	JRE 11
Other Requirements	3D graphical support from OpenGL 4.8

4 EMMA REPORTER / Q-BOARD

4.1 Application Server

These requirements are valid for each Server (if both applications are installed, the memory must be doubled)

Application server for the Online-Monitoring of the manufacturing quality.

Possible Application Server incl. (Minimum-) version	Payara v5
Network	JDBC connections to the MDM database
Memory	4 Gb dedicated**
Java Environment	JDK 1.8
Other Requirements	Valid certificate for HTTPS

4.2 Reporter Client

Graphical User Interface as Ultra-Thin Client.

WEB Browser incl. (Minimum-) version	Firefox Quantum 66, Google Chrome 73 or Microsoft Edge
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5 I++ DMS SERVER

Application server for the online communication according to the industrial standard I++ DMS Version 2.1.

Possible Application Server incl. (Minimum-) version	Payara v5
Network	JDBC connections to the MDM database
Memory	4 Gb dedicated**
Java Environment	JDK 11
Other Requirements	Valid certificate for HTTPS

6 EMMA FUSION

6.1 Standalone (Fusion Essentials)

No connection to a DB possible, the standalone version only allows import and evaluation of data.

Possible Operating systems incl. (Minimum-) version	Windows 10 Pro / Windows 2016 Server
Network	Standard TCP/IP
Memory	4 Gb dedicated** (more depending on the complexity of the assemblies or if optical measurements are evaluated)
Dedicated disk space	Min. 20 Gb dedicated**
Java Environment	JDK 11
Other Requirements	Valid certificate for HTTPS
WEB Browser incl. (Minimum-) version	Firefox 100, Google Chrome 100 or Microsoft Edge

6.2 Enterprise

Can be installed on the same Windows Server as the eMMA Server or on a different machine

Possible Operating systems incl. (Minimum-) version	Windows Server 2016
Network	JDBC connections to the MDM database
Memory	4 Gb dedicated** (more depending on the complexity of the assemblies, or if optical measurements are evaluated)
Dedicated disk space	Min. 20 Gb dedicated**
Java Environment	JDK 11
Other Requirements	Valid certificate for HTTPS
Web Browser incl. (Minimum-) version	Firefox 100, Google Chrome 100 or Microsoft Edge

** the dedicated memory/disk space do not include the memory/disk space necessary for the system (OS,...) or other applications installed on the same server.