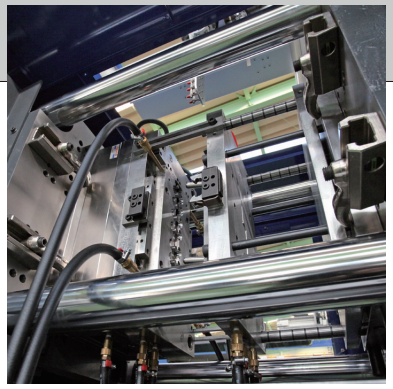
Techno-Nav! テクノナビ

Application 11

Sumitomo SHI DEMAG

OPC UA Communication Protocol

Available models:
SE-EV-A/SE-EV-A-HD

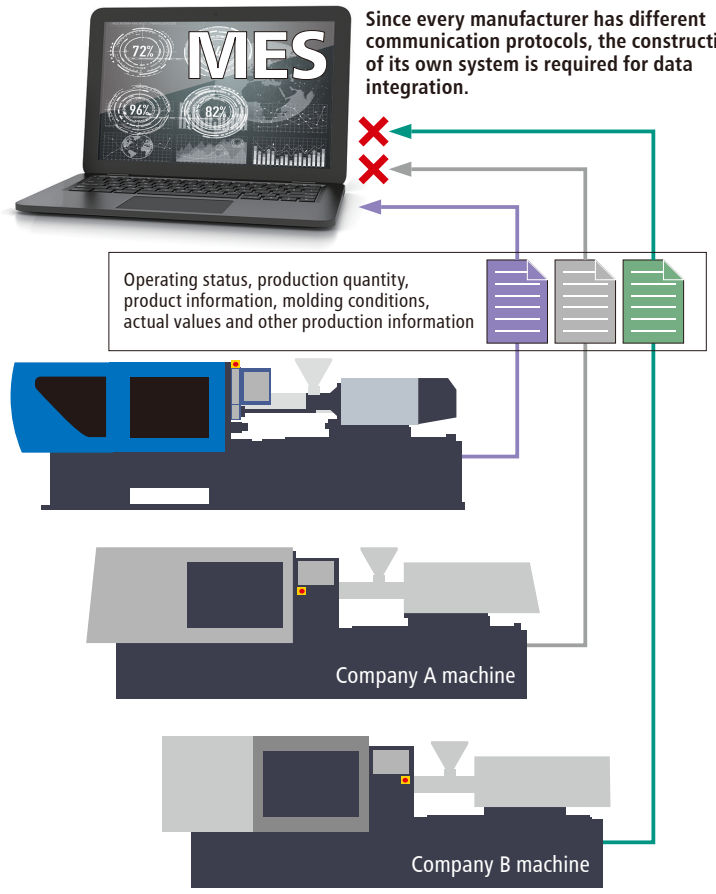


Overview

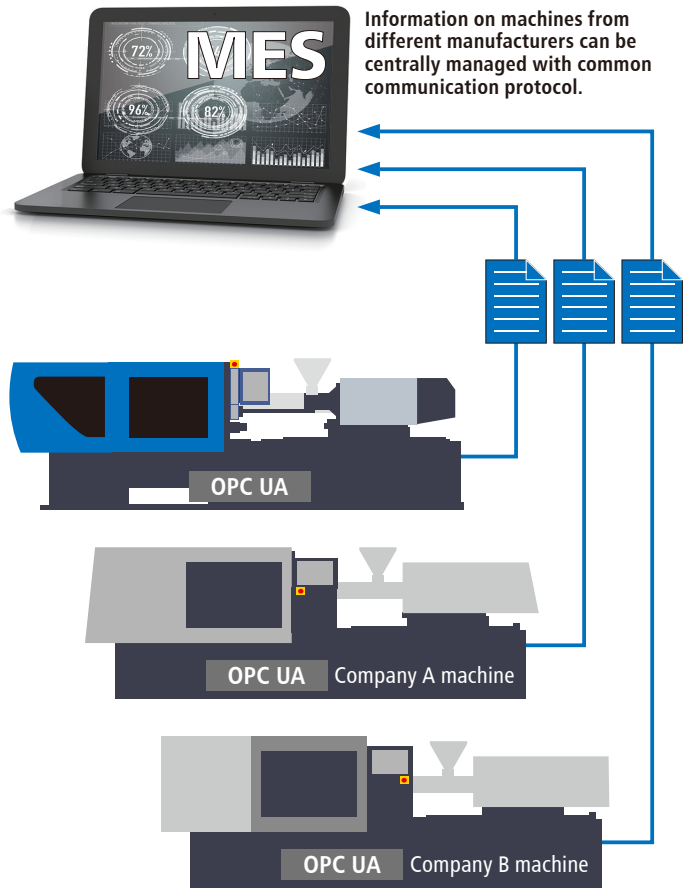
OPC Unified Architecture (OPC UA) is a platform-independent communication protocol for data exchange, released in 2008 by the OPC Foundation. OPC UA is widely used in injection molding machines as a communication protocol for providing data to host systems like Manufacturing Execution Systems (MES). This application gives a molding machine OPC UA server functions. It enables an IMM to provide an MES with about 200 types of data, including operating status, production quantity, product information and molding conditions.
OPC UA makes it possible for an MES to centrally manage production information on molding machines from different manufacturers.

Configuration and Effect

Traditional communication systems



OPC UA



Benefits and Features Continued on the back side ▶▶

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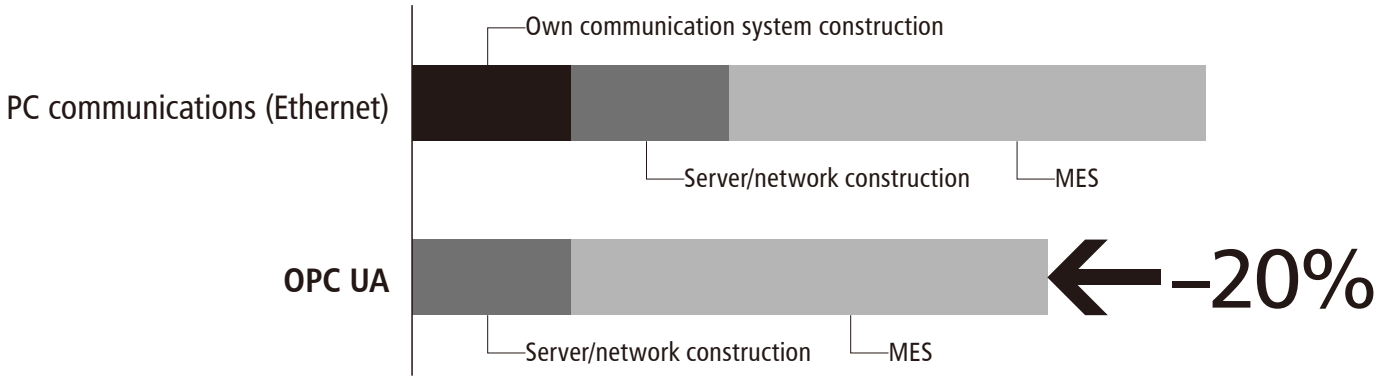
Example of Benefits

OPC UA eliminates the need for development of communication software for each brand of machine, which greatly reduces system construction costs compared to using conventional PC (Ethernet) communications.



Comparison of Features

Item	PC communications (Ethernet)	OPC UA
System connectability	Difficult	Easy
Data sharing	Low	High
Production management data	●	●
Operating status data	●	●
Molding conditions data	●	●
Performance data	●	●
Historical data	●	○
Number of data read	Approx. 200	Approx. 200
Introduction cost	High	Low

●Available ○Unavailable

Restrictions

OPC UA is compatible with all models of the SE-EV-A and SE-EV-A-HD series, except for some machines shipped in a certain period of time. For more information, contact our service representative.

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