

JMS® 4.0

The scalable process control system



Digital production in just a few steps

Today's production industry is situated in a dynamic environment which calls for new and flexible answers. New challenges arise every day. Demands for quality and availability are on the increase.

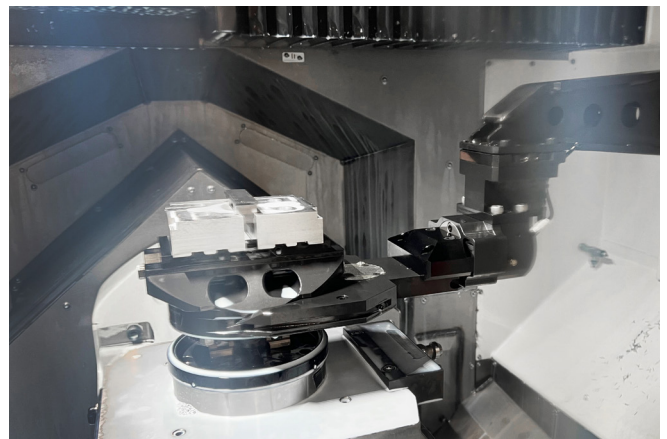
Whether for die-sinking or cutting EDM, for milling, drilling, turning, grinding or measuring: The JMS 4.0 software solutions connect machines from a wide range of manufacturing technologies and manufacturers.



more information:
Smart Factory



Smart Factory is not a mere buzzword for us | The integrative optimization of process chains has been in our genes ever since EROWA was established in 1971. Thus we may claim that it is not merely since the trend towards Industry 4.0 that our customers have raised their production to a new level with modular solutions from the EROWA portfolio.



Degree of automation to meet your requirements | Thus workpieces can be loaded and unloaded in a fully automated process with tailor-made EROWA robots, which, is not an indispensable requirement for an efficient production cell. This starts with the automation of the data, and the automatic loading process can happen in a second step on request.



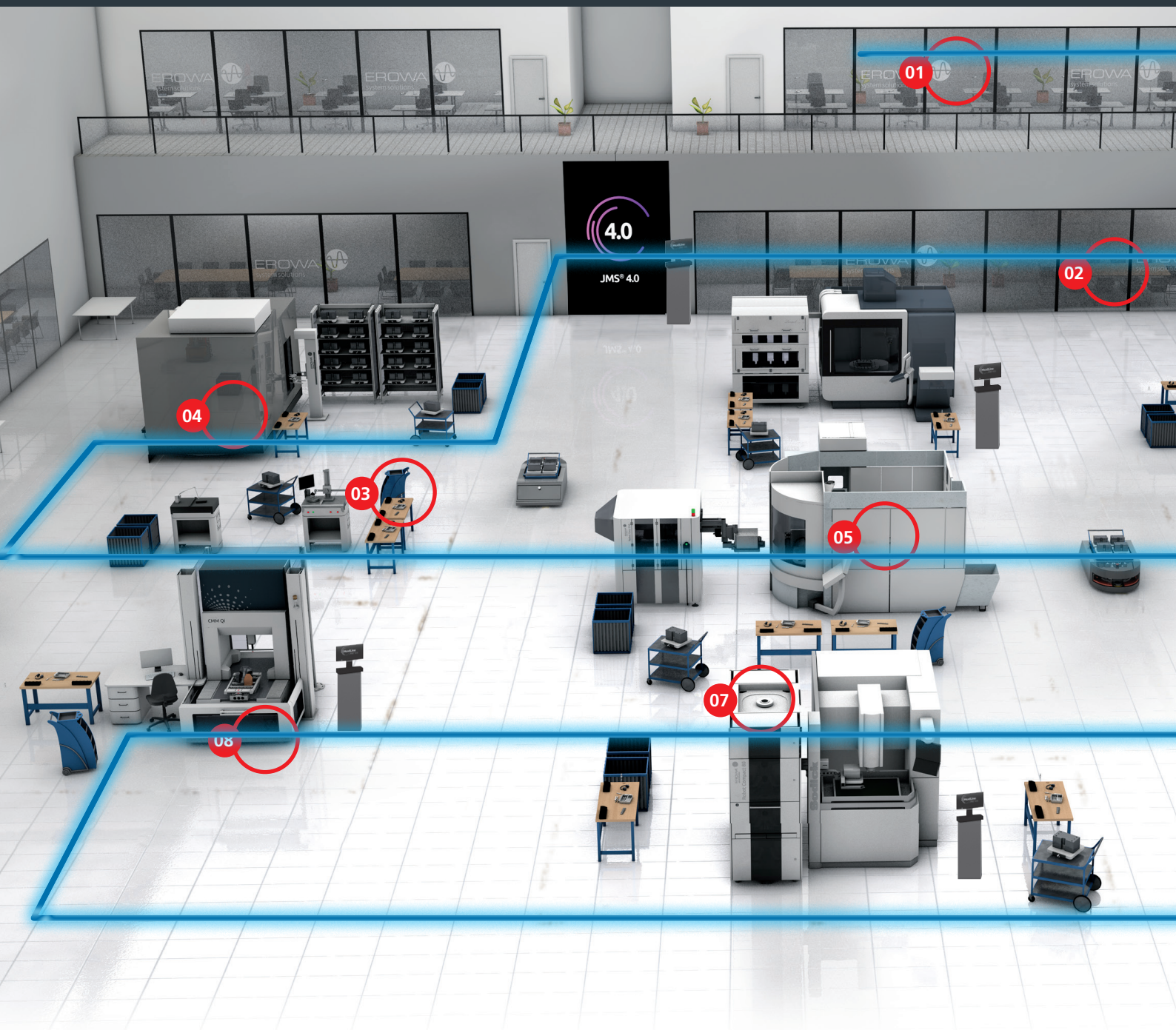
With competent advice to the right decision | At EROWA, we have listened to the wishes of our customers from a wide variety of corporate sizes. Thus we provide tailor-made solutions that fit your production process and degree of digitalization.

FACTS

- More process reliability through data automation
- Tailor-made solutions on the basis of EROWA standard products
- More efficiency thanks to an unbroken electronic data flow
- Less machine down-time

From the production cell to interlinked production

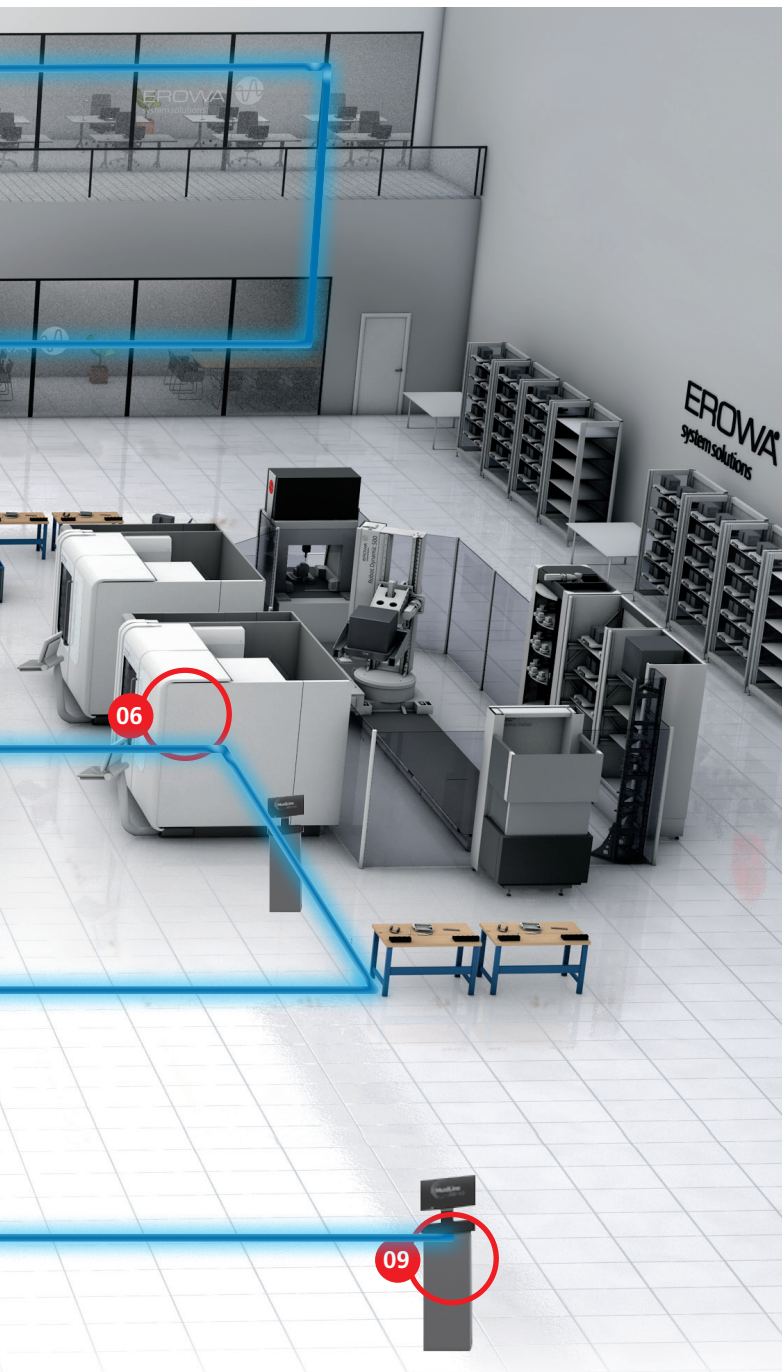
The EROWA process control system JMS 4.0 connects all data and controls the entire production process. It automates the data flow from ERP and CAD/CAM to the production cells. JMS 4.0 takes over the control of the robots and the data transfer and control of the connected machines..



JMS® 4.0

EROWA Productivity Suite

Flexible interfaces to upstream and downstream systems embed production in the existing IT infrastructure. The adopted process data is transferred to the relevant production cells at the right time and in the right format.



01 | Order registration with ERP

02 | CAD/CAM office

03 | Setting-up and datum point determination while the machine is in operation

04 | Milling with manual loading process

05 | Milling with automatic loading process by a monobloc robot

06 | Milling and in-process measuring with automatic loading process by a linear robot

07 | EDM with automatic loading process by a monobloc robot

08 | Quality measurement

09 | Monitoring and reporting of the system



Planning, controlling and monitoring of individual processes

Feedback from machines, robots or the operator is recorded and made available centrally for evaluation. In this way, the entire process can be monitored and controlled at any time.

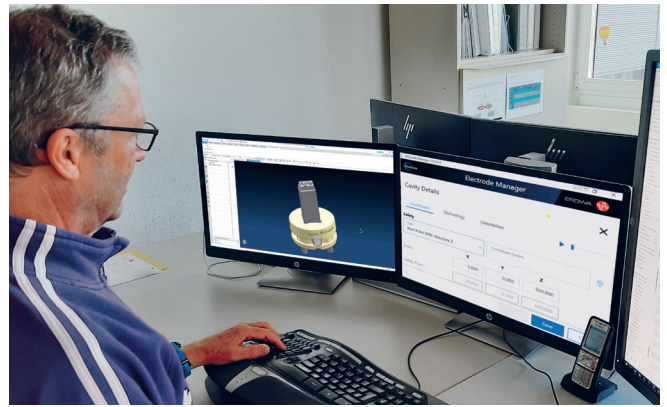


FACTS

- Easy-to-view representation of the entire production process
- Import/export interfaces
- 24/7 live machine status via monitoring app
- Transparent analysis of all production data
- Modular software components
- Intuitive user interface



Controlled data flow | The process control system controls and monitors production cells. The complete universality of the data with all systems allows for genuinely comprehensive monitoring and process security.



Simple import/export of data | JMS 4.0 has a wide variety of interfaces to job and production planning systems such as ERP / PPS / CAD / CAM and others. In this way, data is automatically imported and the current production status is reported back in real time.



User-friendly and easy to operate | JMS 4.0 ensures a clear overview of current jobs. All the data that is relevant to production are represented in a user-friendly fashion. Current status messages assist the operator.



Universal identification | With the RFID-based EROWA EWIS system, the pallets and electrode holders are unequivocally identified. Thus the operator is always informed about the current position and status of the workpieces and electrodes. Automatic reading of the magazine load is the precondition for a high degree of process security.



Reporting | Job or machine reports can be generated with a few clicks. A user-friendly interface and its availability in the entire network make this application an indispensable tool for process optimization.



Transparency about productivity | Dashboard and supervision applications show the efficiency parameters in real time, as well as the current status of the production cells in the system.

A solution to meet any requirement

Whether for EDM or WEDM, milling, drilling, grinding or measuring: the JMS 4.0 software solutions link up machines for a wide variety of production technologies.

EROWA's solutions are modular and scalable: regardless of different manufacturing processes, machine tools from all manufacturers and different generations can be integrated.





EROWA Productivity Suite



The EROWA JMS 4.0 process control system combines all data and controls the entire production process.

more information:

Weblink - Process control system JMS 4.0

EROWA Productivity Suite

We accompany you on the way to the right choice. Our specialists will be glad to advise you and show you what your perfect solutions can look like and be implemented step by step.

YOUR ADVANTAGES

- Workflow monitoring for the production process
- Secure and efficient data exchange with CAD/CAM and ERP
- Part offset data import directly from the presetting station
- Integration of ancillary processes such as cleaning and drying
- In-process quality checks of electrode and workpieces
- Anticipatory tool monitoring





The next step

Important things need to be planned. And your next step is certainly among the important things. It is your start into a new, efficient era. We are pleased to be with you on the way. As consultants, in practice. For you to know at all times what you're engaging in. The next EROWA branch office is not far – **take the step.**



USA

EROWA Technology, Inc.
North American Headquarters
2535 South Clearbrook Drive
Arlington Heights, IL 60005
USA
Tel. 847 290 0295
Fax 847 290 0298
e-mail: info.usa@erowa.com
www.erowa.com

Italy

EROWA Tecnologie S.r.l.
Sede Legale e Amministrativa:
Via Alfieri Maserati 48
IT-10095 Grugliasco (TO)
Italy
Tel. 011 9664873
Fax 011 9664875
info@erowa.it
www.erowa.com

Unità di Treviso:
Via Leonardo Da Vinci 8
IT-31020 Villorba (TV)
Italy

Singapore

EROWA South East Asia Pte. Ltd.
56 Kallang Pudding Road
#06-02, HH@Kallang
Singapore 349328
Singapore
Tel. 65 6547 4339
Fax 65 6547 4249
sales.singapore@erowa.com
www.erowa.com

Japan

EROWA Nippon Ltd.
Sibadaimon Sasano Bldg.
2-6-4, Sibadaimon, Minato-ku
105-0012 Tokyo
Japan
Tel. 03 3437 0331
Fax 03 3437 0353
info@erowa.co.jp
www.erowa.com

Switzerland

EROWA AG
Knutwilerstrasse 3
CH-6233 Büren
Switzerland
Tel. 041 935 11 11
Fax 041 935 12 13
info@erowa.com
www.erowa.com

France

EROWA Distribution France Sarl
PAE Les Glaisins
12, rue du Bulloz
FR-74940 Annecy-le-Vieux
France
Tel. 04 50 64 03 96
Fax 04 50 64 03 49
erowa.france@erowa.com
www.erowa.fr

Spain

EROWA Technology Ibérica S.L.
c/Via Trajana 50-56, Nave 18
E-08020 Barcelona
Spain
Tel. 093 265 51 77
Fax 093 244 03 14
erowa.iberica.info@erowa.com
www.erowa.com

China

EROWA Technology (Shanghai) Co., Ltd.
G/F, No. 24 Factory Building House
69 Gui Qing Road (Caohejing Hi-tech Park)
Shanghai 200233, PRC
China
Tel. 021 6485 5028
Fax 021 6485 0119
info@erowa.cn
www.erowa.com

Germany

EROWA System Technologien GmbH
Gewerbegebiet Schwadernmühle
Roßendorfer Straße 1
DE-90556 Cadolzburg/Nbg
Germany
Tel. 09103 7900-0
Fax 09103 7900-10
info@erowa.de
www.erowa.de

Scandinavia

EROWA Nordic AB
Fagerstagatan 18A
163 53 Spånga
Sweden
Tel. 08 36 42 10
info.scandinavia@erowa.com
www.erowa.com

Eastern Europe

EROWA Technology Sp. z o.o.
Eastern Europe
ul. Spółdzielcza 37-39
55-080 Kąty Wrocławskie
Poland
Tel. 71 363 5650
Fax 71 363 4970
info@erowa.com.pl
www.erowa.com

India

EROWA Technology (India) Private Limited
No: 6-3-1191/6, Brij Tarang Building
Unit No-3F, 3rd Floor, Greenlands, Begumpet,
Hyderabad 500016 (Telangana)
India
Tel. 040 4013 3639
Fax 040 4013 3630
sales.india@erowa.com
www.erowa.com