WE CREATE SMART FACTORIES
WELCOME TO THE WORLD OF MANUFACTURING IT

Efficient production processes are the basis of a company operating economically. You can increase transparency, efficiencies and quality of your production processes using modern manufacturing IT by MPDV. Doing so, you can lay the basis for your long-term competitiveness and at the same time turn your production into a Smart Factory.

Being an engineer and an entrepreneur, I can assure you that you will clearly benefit from our solutions, products and services for the manufacturing industry.

Find out how we can support your way to the Smart Factory!

Yours Prof. Dr.-Ing. Jürgen Kletti
CEO MPDV MikroLab GmbH
MPDV: WE CREATE SMART FACTORIES

WORLDWIDE NEAR YOU

MPDV is one of the leading suppliers of manufacturing IT for the Smart Factory. Over 420 qualified and motivated employees work in eleven locations for MPDV and its subsidiaries. A partner network represents MPDV in other regions, reaching a wide customer base around the globe.

ADVANCED IT SOLUTIONS

Innovative and high-quality software products and comprehensive services offer pioneering solutions for progressive production companies. Additionally, we can advise you on economic issues regarding the modern production environment, support innovations and offer cutting edge methods to increase efficiencies.

OUR INNOVATIVE DRIVE IS YOUR ADVANTAGE

MPDV has always been regarded as a pioneer of the MES concept and is involved in relevant professional associations such as VDI (Association of German Engineers), VDMA (German Engineering Association), MES D.A.CH (MES organization for German-speaking region) and MESA. The challenges in the production environment change continuously, therefore the innovation wheel at MPDV never stands still. Our numerous awards are proof of this.
SUCCESS STORY MPDV

MPDV has been successfully on the market for more than 40 years and produces a continuous and self-financed growth. More than 800,000 people in over 1,250 production companies use innovative IT solutions by MPDV on a daily basis.

Our products and solutions for the Smart Factory have improved productivity for companies of all sectors and therefore contribute to sustain business locations.

We develop concepts and models on the basis of extensive specialist knowledge and many years of practical experience, which are published in numerous reference books.
MILESTONES

1977
Opening as an engineering office for hard- and software development

1984
First individual Shop Floor Data Collection module for production companies

1990
Launch of HYDRA as the first Software Production Management System

1994
First implementation of an interface for SAP systems, certified by SAP

1996
First DIN EN ISO 9001 certification

2000
Addition of Quality Assurance functions to HYDRA

2003
The first company-owned building in Mosbach, Germany

2004
Foundation of the user association “HYDRA Users Group”
2007
- Market introduction of the new MES generation HYDRA 8
- Foundation of an MPDV subsidiary in Shanghai, China

2012
- First industry-specific MES solutions and mobile MES applications (SMA)

2013
- First publication of the VDI guideline 5600 "MES" with MPDV in the lead
- Foundation of MPDV Asia Pte. Ltd. (Singapore) and MPDV USA, Inc. (Chicago)

2014
- Initial concepts for the practical implementation of Industry 4.0 ideas and Smart Factory strategies

2017
- 40th anniversary & expansion of the company headquarters in Germany

2018
- Market launch of the forward-looking Manufacturing Integration Platform (MIP)

2019
- Publication of the model Smart Factory Elements
- Foundation of an MPDV subsidiary in Kuala Lumpur, Malaysia
SOCIAL COMMITMENT

We are committed to preserve important industrial locations like Germany, US, and China. That also implies safeguarding employment at our customers.

We fight skills shortage by promoting young talents. By solid, economic course of action, we guarantee our staff secure employment with family-friendly conditions. A healthy work life balance is as important to us as a friendly and cultivated working environment.

With our products and services, we provide companies with tools to improve efficiencies in production and help to conserve resources – supporting environmental awareness.

The complete management of MPDV personally stands for the social responsibility of our company.
MPDV AS A PIONEER

INDUSTRY 4.0 EXPLAINED IN PRACTICAL TERMS

With informative events MPDV conveys new ideas, provides know-how to production companies and substantiates these with examples from working life. During Best Practice workshops long-term MES users show proudly what they have achieved and how interested companies can benefit from an MES system. In regular MES webinars, interested companies can also inform themselves about the application areas and benefits of an MES.

MPDV AS ORGANIZER OF THE “FORUM EFFEKTIVE FABRIK”

The “Forum Effektive Fabrik” can look back on a remarkable history: An increasing number of participants from the DACH region has turned the conference into a meeting point for CEO’s and decision makers from all sectors of industry. Well known sponsors and keynote speakers, talks given by high-ranking representatives of famous companies make this event an excellent breeding ground for innovative production management.
MPDV: PARTNER FOR THE FUTURE

The way we think and act is determined by the consequent focus on the needs of our customers, market requirements and our drive for innovation.

Our products are based on state-of-the-art technologies and are an integral part of today’s production IT.

MPDV is a synonym for innovative and forward-looking system solutions using the latest technologies. We offer comprehensive and needs-based services as well as tested quality across all processes which is proven by our DIN EN ISO 9001 certification.

We offer our customers and partners security of investment with a solid management and constant improvement of our products and services. We prepare our customer today for the challenges of tomorrow with a pronounced feeling for up and coming trends.

That makes us a reliable partner for IT solutions close to production and your Smart Factory.
INCREASE PRODUCTIVITY WITH MES

Economic challenges are tremendous for companies competing globally and leave no room for unexploited potential in production. Transparent, reactive and efficient processes are required to open up economic potentials.

The key to success is a perfect combination of process improvements, lean methods and state-of-the-art Manufacturing Execution Systems. Software products and solutions by MPDV are powerful tools to optimize processes in the Smart Factory.

In this context, we are also researching how latest IT and methods from Lean Manufacturing can be optimally synchronized. The results of our research are directly incorporated into further developing our products and solutions for the Smart Factory.
guarantee adherence to delivery dates
control & manage energy cost
increase labor & technical resource effectiveness
minimize manufacturing inventory
key figures for your controlling
optimize workforce requirement planning
inventory for your controlling
traceability & quality
energy cost
resource effectiveness
key figures
resource management
inventory
energy cost
resource effectiveness
KEY FIGURES
MESHYDRA
MES HYDRA  Prediction  IIoT
Manufacturing Execution System  Productivity  Industry 4.0
Big Data  Dynamic Manufacturing Control
Traceability  Tracking & Tracing
Manufacturing Integration Platform  Tools & Resources
Quality Assurance  Smart Factory
Shop Floor Scheduling  Analytics  Process Data  Machine Data
Test Equipment Management  Transparency  Smart Factory Elements
Shopfloor Integration  Dynamic Manufacturing Control
Execution  DNC & Configuration Data
In-Production Inspection  Planning & Scheduling  Prediction
Digital Twin  MES-Cockpit  Personnel Time
Premium & Incentive Wages  Efficiency  Manufacturing Apps
Personnel Scheduling
There are many ways to implement a Manufacturing Execution System. Our customers decide if they want to purchase single products, customized services or a complete solution. MPDV’s experts provide adequate support during this process. If required, we enable our customers to carry out defined services on their own as part of an Smart Factory project.

**Products**
Innovative building blocks with which you can implement an individual solution for your Smart Factory

**Services**
Services, such as practical training, worldwide support and system support with which we help you on your way to the Smart Factory

**Solutions**
Tailor-made IT solutions for the Smart Factory, which we put together for you from our products and services, including professional project management
EXPERTISE FOR ALL INDUSTRIES

TAILOR-MADE IT SOLUTIONS

Our products and solutions support various production processes with versatile functions and different options of configuration suitable for all industrial sectors:

- Automotive supplier and manufacturers
- Plastics and rubber
- Metal working
- Food and beverages
- Chemical and cosmetics
- Tooling and mechanical engineering
- Furniture manufacturing and wood processing
- Printing and packaging
- Precision engineering / optics
- Electronic / electrical engineering
- Medical technology / pharmaceutical

MPDV offers specific solutions based on HYDRA for key industrial sectors. Users benefit from a perfect combination of customized functions and field-proven standard software.
HYDRA USERS GROUP (HUG)

The HYDRA Users Group was founded in 2004 as an own entity by HYDRA users. Today more than 350 members are registered. The members meet in regular intervals in task forces focusing on production, HR, quality, IT and strategy to devise best practice strategies to further develop MPDV’s products. HUG offers HYDRA users a large network of contact persons and creates room for mutually productive teamwork.

Once a year HUG members arrange a general meeting to discuss crucial developments. The HUG board coordinates all activities. Additionally, MPDV mentors support HUG activities.

The HYDRA Users Group is proof for the beneficial collaboration with our customers.

WWW.HYDRA-USERSGROUP.COM
OUR FUTURE VISION – MANUFACTURING IT 4.0

Considering current trends such as Industry 4.0, we are not only there, but are also actively participating in the standardization process. In addition to our own developments, we are also involved in important expert committees of trend-setting associations such as VDMA, VDI und MES D.A.CH.

LEARNING FROM PRODUCTION PRACTICE – DESIGN THE FUTURE

Starting with our future concept MES 4.0, we have demonstrated the need for an integrated MES system for future production scenarios. In addition, our four-stage-model shows how manufacturing companies can gradually evolve into a Smart Factory. All these findings and our many years of experience in the production environment fed into the further development of the Manufacturing Integration Platform (MIP). With MIP we lay the foundation for the fourth generation of manufacturing IT.

AHEAD OF TIME BUT STILL PRACTICABLE

Innovations and technologies must not be driven by self-perpetuation. Focus is always on the practical use and especially medium-sized companies rely on functional solutions. With all our products, services and solutions we therefore aim at your needs and your application benefits. The ultimate goal is optimizing production processes and thus increasing productivity.