

# METAV/2018

DÜSSELDORF, 20 – 24 FEBRUARY / POWER YOUR BUSINESS

For all wanting to do better.



**METALWORKING**

QUALITY AREA

MEDICAL AREA

MOULDING AREA

ADDITIVE MANUFACTURING AREA

20th International Exhibition  
for Metalworking Technologies

[www.metav.com](http://www.metav.com)

Eine Messe des  
A Fair by **VDW**

**M**  
Messe  
Düsseldorf

# ... MAKE IT METAV!

The exhibition for all wanting to experience the progress of metalworking technologies more in practice than in theory. For all with ideas in their heads, talent in their hands, and complex tasks in their hearts. For all seeking short paths for long-term production solutions:

## METAV 2018 IN DÜSSELDORF...

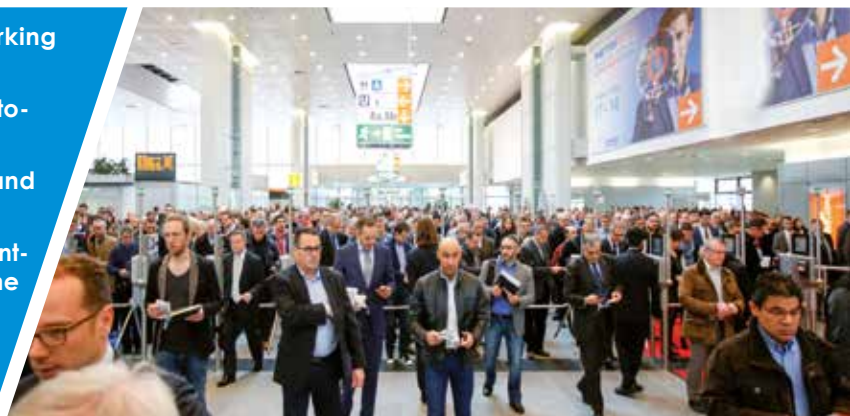
- ... focuses on production solutions for all metalworking and manufacturing technologies
- ... concentrates on machines, tools, methods, automation technologies, and new trends
- ... is geared to the full 360° range of innovations and investment planning
- ... presents the wide range of offers in a clear, content-based structure for the benefit of visitors and the comprehensive communication of information
- ... highlights specific production technologies and core METAV subjects in four Areas:

- **QUALITY AREA**
- **MEDICAL AREA**
- **MOULDING AREA**
- **ADDITIVE MANUFACTURING AREA**



# For all who ... ... are like you:

committed to metalworking technologies and constantly in search of optimised output, enhanced value creation, greater utilisation of capacity, and higher quality.



The direct, practical added value of METAV is appreciated by product developers, production engineers, business managers, professional purchasers, business proprietors, entrepreneurs, plant managers, production managers, and machine operators from the following industries:

- **Automotive and vehicle construction**
- **Machine and plant building**
- **Aerospace**
- **Medical engineering**
- **Fine mechanics and optics**
- **Power and environmental engineering**
- **Building and domestic facilities**
- **Control, measurement, and regulation**
- **Electrical engineering, etc.**



## QUALITY AREA at METAV 2018

For all who ...

... continue raising their  
quality claims.



If your quality claims are defined in terms of your tasks and goals, you know: Today's standards scarcely satisfy those of tomorrow.

**The highlights:** everything that promotes quality: sensor systems, testing and measuring equipment, all QM analysis systems, and complex systems for process reliability and Six Sigma requirements – the whole gamut of quality mechanisms, methods, procedures, and technologies. The meeting place of experts and those responsible from production and quality management.

The QUALITY AREA Lecture Forum is the meeting place of the whole industrial quality claim shared between theory and practice. Best practice examples and visitors' dialogues between themselves and leading experts promote the communication of technological details to great practical benefit.

## MOULDING AREA at METAV 2018

For all who ...

... want to bring shape to  
a shining future.



Secure your competitive advantage, and launch yourself to the lead with innovative solutions in model, tool, and mould making!

**The highlights:** from design to prototyping to series production! Supported by impressive technology for a growing market, the exhibitors in the MOULDING AREA will not fail to convince users in many industrial segments. Here, tool and mould building offers new and enhanced solutions in the realisation of complex geometries for plastic, metal, and glass.

Mould design, surface structures, or kinematic and thermal configurations – both users and developers can observe the range of expertise from design to series production. At the same time, intelligent tools and new coatings adopt key roles in products that are growing in complexity.



## ADDITIVE MANUFACTURING AREA at METAV 2018

For all who ...

... want to translate product  
visions into reality.



Additive manufacturing processes for the industrial production of short runs of metal and plastic: Future from the one source.

**The highlights:** key providers from the CAD, simulation, hybrid machine, materials, systems, and quality assurance segments as well as production service and other solution providers.

Presented here as a forum of innovative production technologies, the entire portfolio of additive processes forms the perfect complement to the other product highlights at METAV. This range of subjects corresponds to the massively boosted importance of this sector and demonstrates new business fields with additive technologies.

## MEDICAL AREA at METAV 2018

For all who ...

... want to experience technical  
progress up close.



Medical engineering is developing at lightning speed and offers great opportunities for engineering design procedures.

**The highlights:** Manufacturers of medical technologies, components, procedures, and production technologies for medical products represent e.g. the subjects of implants, prosthetics, instruments, and stents.

Important: new and lightweight materials like aluminium, carbon fibre composites, plastics, and titanium, also in their various combinations.

**MEDICAL AREA Lecture Forum:** expert contributions, expert talks, and best practice examples.

# For all who ... ... want to know more.



## DGQ AND DQS WORKSHOPS 20 and 23 FEBRUARY 2018

As promoters in all quality issues, DGQ and DQS communicate expert knowledge and methodology expertise for management systems. They also provide international expertise in system and process audits and are experienced partners of the QUALITY AREA at METAV 2018. Utilise your exhibition day to share in this knowledge – and to dip into some of the subjects that are defining today.

### WORKSHOP SUBJECTS:

- ISO 9001:2015 – a revision with marked key points: What new requirements affect your company – and what opportunities do they bring?
- Power management – handle with care: SpaEfV, EEG, or EDL-G: Workshops provide key information to those obliged to fulfil legal requirements.
- Information security on digitised markets: We raise your awareness for the risks, so that you can continue on course to Industry 4.0.

Details: [www.dgq.de](http://www.dgq.de) | [www.dqs.de](http://www.dqs.de)



## 2ND THEME PARK INDUSTRY 4.0 20 – 24 FEBRUARY 2018

The whole world is talking about Industry 4.0, nearly every day sees an event discussing this subject. But what actually is behind this concept? Is it suitable only for large-scale corporations, and how can these profit by it? Or: How far can it be implemented by SMEs, but, above all, how does it benefit production? Now taking place for the second time, the Industry 4.0 theme park at METAV 2018 will be introducing acknowledged leaders in technology who will be presenting the solutions realised in this field. At this specialised forum, visitors will learn in addition the actual benefits Industry 4.0 can offer them.

Details: [www.mav-online.de](http://www.mav-online.de)



## ISF DORTMUND GRINDING SEMINAR 22 – 23 FEBRUARY 2018

Now into its seventh season, the Dortmund Grinding Seminar will be presenting its tried and tested event concept in 2018 as well, hosting exciting contributions from research and industry in the fields “Machine and environment”, “Tools”, and “Processes”. The organisation behind this seminar’s subjects promises here an insight into current trends, practical realisations, and outstanding opportunities for sharing information on many subjects in the field of grinding technology and precision machining.

### SEMINAR SUBJECTS AT THE 7TH DORTMUND GRINDING SEMINAR:

#### Machine and environment

- Grinding technology trends
- Flexible manufacturing
- Manufacturing systems

#### Tools

- Current aspects of grinding tool development
- Trends in ultrafine surface finishing
- New tool grinding challenges

#### Processes

- Innovative processing combinations
- Solutions to industrial challenges
- Process stability and monitoring

Details: [www.isf.de/schleifseminar2018](http://www.isf.de/schleifseminar2018)



Subject to change. The schedule can be viewed on [www.metav.com](http://www.metav.com).



## APPLICATIONS FORUM FOR SAWING TECHNOLOGIES 20 FEBRUARY 2018

METAV 2018 will be hosting the first Applications Forum "Sawing Technologies" presented by Fraunhofer IPA. This will be dealing with current trends and best practice examples from the field of sawing technologies. In six presentations, tool and machine manufacturers and Fraunhofer IPA will be explaining current solutions and new developments. The object of the event is to show to users of sawing technologies new approaches to process optimisation based on application-oriented examples.

### SUBJECTS OF THE APPLICATIONS FORUM FOR SAWING TECHNOLOGIES:

- Possibilities and benefits of machine networking by means of Industry 4.0
- Process monitoring for reduced tool costs
- Correct choice of tools for cost-effective sawing technologies
- Current trends in machine and storage technologies
- New applications and their challenges

Details: [www.sägen-stuttgart.de](http://www.sägen-stuttgart.de)

## INSIDE 3D PRINTING 21 – 22 FEBRUARY 2018

"Inside 3D Printing", the leading B2B conference, deals specifically with additive manufacturing as the driver of digital production. Under the banner "From data stream to final product", the focus is placed on new developments in this sector, research efforts, technology and equipment trends, and 3D printing applications and integration into a complete stream of product realisation. Here will be where ideas and thoughts are shared on the huge potential and restrictions of today's 3D printing methods for industrial realisation. The subjects treated at the 2018 "Inside 3D Printing" conference will be particularly metallic and hybrid processes, new technologies, applications, the market and its future, research and development, promotion, and standards and directives.

Details: [www.inside3dprinting.de](http://www.inside3dprinting.de)

## VDW TECHNOLOGY DAY 20 FEBRUARY 2018

### FIRE AND EXPLOSION PROTECTION ON MACHINE TOOLS

Even though today's production often proceeds fully automatically, it still needs regular human interaction. The protective specifications under the EU Machinery Directive applying in this case also affect fire protection on modern machine tools. In most cases, the first victim of fire is the water-immiscible cooling lubricant used as a process auxiliary. Depending on the level of misting, there may also be low-pressure explosions, or so-called deflagration. Containing the effects of such reactions requires a series of safety measures on the affected machines. Experts from the machine tool industry, manufacturers of firefighting equipment, machine operators, and the professional association present the key points in the safe design and operation of modern plant.

Details: [www.vdw.de](http://www.vdw.de)

## FORUM FOR CLAMPING TECHNOLOGIES 21 FEBRUARY 2018

Under the banner "Clamping technology potential in efficient production processes", METAV 2018 will see the VDMA Precision Tools Association hosting the Forum for Clamping Technologies for the third time. Six presentations will be illustrating how optimal clamp designs can enhance the efficiency and cost-effectiveness of production processes. The subjects treated are tool and workpiece clamping technologies, digital manufacturing, and the latest research findings.

### SUBJECTS AT THE FORUM FOR CLAMPING TECHNOLOGIES:

- The significance of the tool holder in the manufacturing process
- Use of angle heads for the optimal additions to machine tool functionality
- Advantages and potential use of magnetic and vacuum clamping technologies
- Clamping workpieces in bores: direct clamping with zero-point clamping systems versus bore clamps
- Clamping technologies for digital manufacturing
- Flexible clamping systems for Industry 4.0

Details: [www.pwz.vdma.org](http://www.pwz.vdma.org)

Subject to change. The schedule can be viewed on [www.metav.com](http://www.metav.com).





## WELCOME TO DÜSSELDORF

For all who ...  
... want to discover new and  
beautiful things in the best  
environment.

At the heart of the largest industrial conurbation in Europe and hence in the direct vicinity of countless users of metal-working technologies, METAV is ideally integrated in the economic structures of the Ruhr Area industrial core. This direct vicinity to the industrial centres as well as to the neighbouring countries defines the outstanding relevance METAV at its Düsseldorf location enjoys in the sector, generating huge demand potential as a result. And if you wish to continue networking in cosy surroundings, you'll find a place not only in the old town of Düsseldorf ...



## GENERAL INFORMATION

### Information for visitors

Information at the North Entrance, Northeast Entrance, East Entrance, Exhibition Centre, tel.: +49 211 4560-01

### EC cash dispensers

Sparkasse: Exhibition Centre, first floor, North Entrance, East Entrance, Cash Group: Exhibition Centre, next to the supermarket

### First aid, fire brigade, and ambulance

Tel.: +49 211 4560-111

### Police

North Entrance, tel.: +49 211 4560-420

### Restaurants and snack bars

Halls 14–17, cold and hot snacks, drinks, open during the daily exhibition times

### Tower supermarket

Exhibition Centre, ground floor

### First aid station

North Entrance, tel.: +49 211 4560-111

### Car hire

Exhibition Centre, ground floor

### Hotel and travel offers

Düsseldorf Tourismus GmbH

Tel.: +49 211 17 202-839

Fax: +49 211 17 202-3221

messe@duesseldorf-tourismus.de

www.duesseldorf-tourismus.de/messe/metav/





## FACTS

## AND FIGURES

### Calendar and opening times

Tuesday, 20 February 2018, to Saturday, 24 February 2018  
 Tuesday to Friday, 9:00 a.m. to 5:00 p.m.  
 Saturday, 9:00 a.m. to 4:00 p.m.

### Admission charges – combined tickets

€ 28.00 Onsite day ticket with registration  
 € 36.00 Onsite day ticket without registration  
 € 19.00 Advance day ticket online

€ 49.00 Onsite season ticket with registration  
 € 59.00 Onsite season ticket without registration  
 € 37.00 Advance season ticket online

€ 16.00 Reduced day ticket for pupils and OAPs

The tickets entitle the holder to visit **METAV 2018** and can also be used on VRR public transport. Advance orders from end of 2017.

### Catalogue

€ 23.00 including shipping costs inside Germany  
 Advance orders from 1 December 2017 from:  
[www.metav.com](http://www.metav.com) or in writing from:

A. Sutter Fair Business GmbH

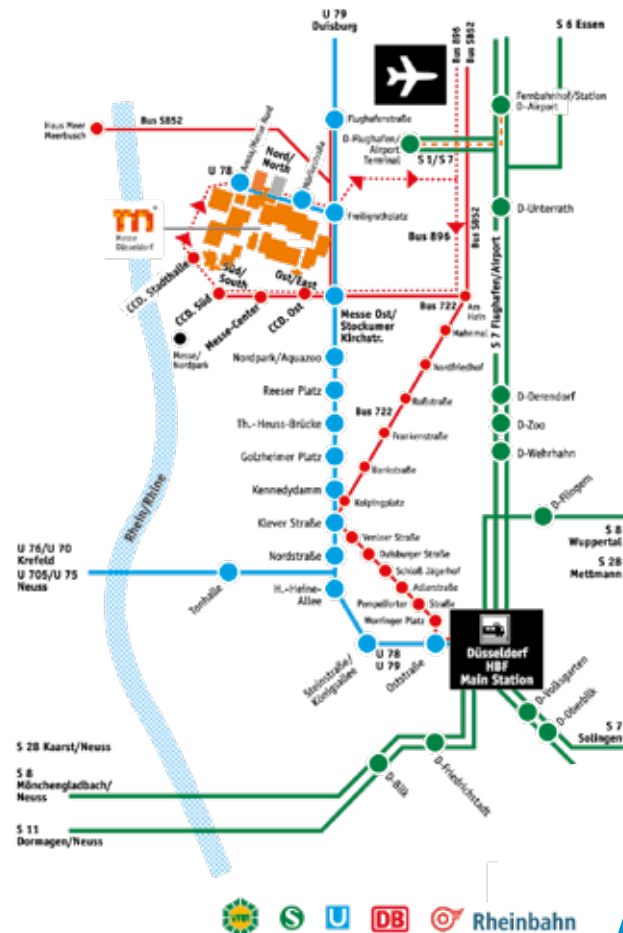
Ms. Martine Bey  
 Bottroper Str. 20  
 45141 Essen, GERMANY

Tel.: +49 201 8316-228, fax: +49 201 8316229

E-mail: [katalogorder@sutter.de](mailto:katalogorder@sutter.de)

**Catalogues shipped from February 2018**

### Arriving by bus or rail







### Exhibition site

Düsseldorf exhibition grounds  
Halls 14 – 17

### Opening times

Tuesday to Friday:  
9:00 a.m. to 5:00 p.m.  
Saturday:  
9:00 a.m. to 4:00 p.m.

[www.metav.com](http://www.metav.com)

**VDW**

**VDW – Verein Deutscher  
Werkzeugmaschinenfabriken e. V.**

Corneliusstraße 4  
60325 Frankfurt am Main  
GERMANY

Tel. +49 69 756081-0  
Fax +49 69 756081-74

[metav@vdw.de](mailto:metav@vdw.de)

