

Innovative products for
the metal-producing and
metalworking industry

YOUR SUCCESS
IS OUR GAIN

ENGINEERING IS OUR PASSION

Production equipment



Solutions for precise weighing – even under severe conditions



Innovative weighing systems for all production furnaces



Weighing technology

Innovative developments and new approaches enable the highly precise weighing of heavy loads, even under severe environmental and working conditions.

We offer a wide range of solution options for exact weight determination for both new and existing plants and existing furnaces.

High-quality, innovative weighing systems for:

- Production furnaces such as rotary drum, melt, conversion and holding furnaces with capacities up to 800 tonnes
- Crucible and pan systems
- Bulk goods weighing
- Dynamic weighing
- Distance, force and tension measurement
- Custom solutions



Heavy duty weighing system without covering



Heavy duty weighing system with covering and hydraulics

Product areas



Our customers in the metal-producing and metalworking industry benefit from our many years of experience and specialization in this area.

With our solutions for weighing, measuring and monitoring, you are assured that your production equipment is in good condition at all times. Our **iMES CC** production management system integrates seamlessly and flexibly into your production process and provides end-to-end monitoring, control and optimization of your production. Our tried-and-tested backpressure-independent mixing and gas dispensing systems GDS can also meet the most demanding requirements for product treatment.

See for yourself – we would be pleased to provide you with individual advice on our products and solutions to assure your successful production.

*The **fiwa**group is your partner for all processes related to production equipment, production management and product treatment.*



Production equipment

- Weighing heavy loads
- Dynamic weighing
- Wireless temperature measurement
- Monitoring and identification
- Building services equipment

Production management

- iMES CC production management system
- Process automation
- Energy management
- Monitoring: identification

Product treatment

N₂/Ar-Cl₂ melting pool gas injection

Wireless temperature measurement technology

The latest technologies and advancements allow us to think outside known limits and restrictions.

- Temperature measurement up to 600 °C
- Wireless communication
- Custom solutions on request



*Wireless
RFID-Sensors ...*

Identification technology

Identification of production equipment, transport routes, product additives and end products is becoming increasingly important for fault avoidance and documentation.

We offer a full spectrum from feasibility studies to turnkey all-in solutions:

- Batch identification
- Carrier identification
- Form identification
- Route and journey documentation



... for temperature measurement up to 600 °C

Health, safety and environment (HSE)

The first priority is to recognize and eliminate hazard sources, avoid potential hazards and carry out production in conformance with legal requirements. The fiwa)group is your reliable partner for:

- Conformity declarations (CE mark)
- Hazard analyses
- Workstation assessment
- Risk assessments



*Identification and
localization of production
equipment at all times*



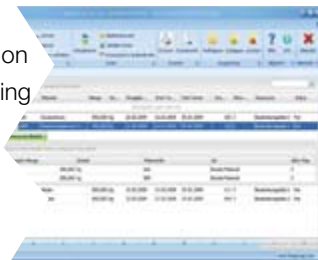
*Ensuring reliable and
legally compliant production operations*

Production management

End-to-end production management is indispensable for optimizing the efficiency of resource utilization and finished products. In today's world, all logistics and production activities need to be performed in a modern manner and, as much as possible, with a high degree of automation and the greatest possible energy efficiency. We offer IT solutions specifically tailored to your requirements.

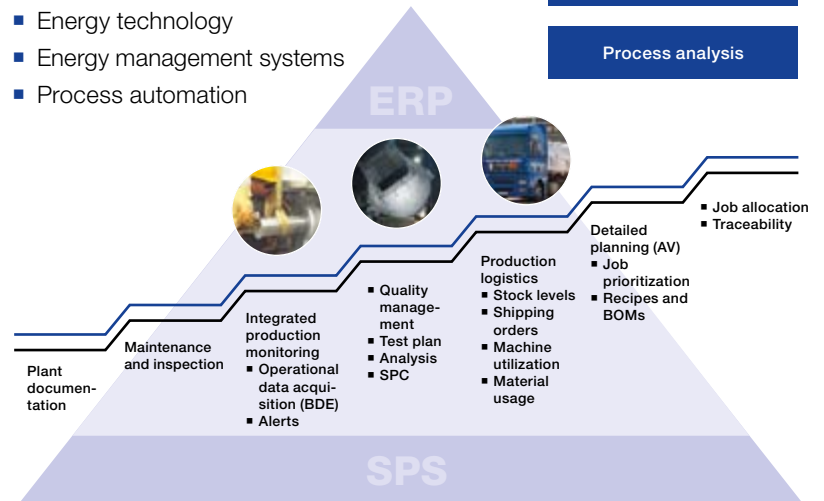
iMES CC production management for smelters

- Operational data acquisition
- Detailed production planning
- Storage and logistics
- Recipe management
- Plant data acquisition
- Quality management



Process automation and process optimization

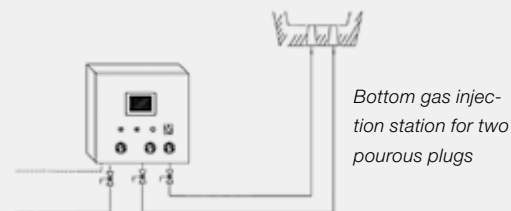
- Automation IT
- Energy technology
- Energy management systems
- Process automation



Product treatment

With the metalworking industry placing ever higher demands on source material, the role of optimal smelt treatment during the production process is becoming increasingly important. Our proven GDS backpressure-independent mixing and gas dispensing systems help you handle this task with flying colors.

GDS Gas-Dosing-Systems



N₂/Ar-Cl₂ melting pool gas injection

Precise, reproducible mixing and gas distributing for:

- Porous plug gas injection systems
- Graphite lance gas injection
- Impeller systems

Advantages of GDS systems

- Precise mixing of chlorine and nitrogen or argon
- Proven technology
- High process and plant security
- Easy operation and use
- Adjustable chlorine concentration



Gas dispensing system with mass flow controller



fiwa)group company overview

Finze & Wagner EMSR Ingenieurgesellschaft mbH, founded in 1972, is an engineering company and one-stop shop for custom-engineered design, focusing on electrical, measurement and control technology, process automation, machine and plant automation, IT-based automation, building services, energy technology, HSE, weighing systems and PRE-VENT® control valves.

We have been suppliers for 40 years to the process and production industries. Our range of services starts with detailed consultancy and continues right through to successful startup and subsequent maintenance of the plant.

The fiwa)group has a number of branches in Germany, Austria, Romania and China. Our staff of about 200 employees works with and supports our clients worldwide. Our client portfolio includes long-term business relationships with both end-users and well-known plant-builders in a wide range of industries.

We know your worries and your problems throughout the production chain, and we know what is needed in a production management system.

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