OERTER APPLIKATIONSTECHNIK

laboratory paintspraying machines
We realize challenging applications for our customers.

It is our aim to be a relevant specialist and partner to our clients and to be an attractive employer in an innovative working environment based on a fair relationship with our employees.

Dipl. Geophys. Ulrich Oerter managing director

Team
OERTER laboratory paintspraying machines

Quality is not a coincidence

Innovation

Highest quality

State-of-the-art technical standards

Technical flexibility

Competency and experience

Reliability

Flexible adjustment to individual customer requirements

Variable installation

Expert advice

First class service
Oerter GmbH & Co. KG was founded in 2006 from Köhne GmbH & Co. KG and since then has been carried on successfully with the highest demands to quality and reliability. The founding of the company was driven by the idea to provide clients with technically sophisticated and reliable painting machines, and to ensure first class service on top.

Oerter GmbH & Co. KG is a world leading manufacturer of application machines for use in laboratories. Our customers know that the name OERTER is synonymous with innovation, quality and technical versatility, as well as experience, expertise and reliability.

We constantly strive to reliably fulfil your individual demands and to offer you the highest quality, functionality and first class service at the same time. Thanks to careful development, conscientious production and individual function and quality checks, our painting machines are maintenance-free for many years. All models meet the current safety regulations. The explosion protection is certified according to ATEX II 2G T4 resp. II 3 G T4. Other certifications are available upon request.
The highlights of the innovative Oerter production range are the painting machines of the APL production series. The four models of the APL production series APL 1.2, APL 2.2, APL 3.2 and APL 4.6 cover all requirements within the range of conventional pneumatic painting and ensure highest technical standards.

High-end: APL 6.0

The high-end model APL 6.0 was specially designed for the operation of electrostatic high rotation atomizers and simulates state-of-the-art painting processes from automobile production.

Customised special constructions

Apart from the renowned APL production series, Oerter GmbH & Co. KG develops customised special constructions for the fields of painting testing and paint supply upon specific customer requests. All models from the series can be tailored according to special customer requirements. We will be happy to adjust all constructions to your special requirements and ideas. All machines can be installed in nearly every spray booth. We will be happy to advise you on redesigns or adjustments of your spray booth.
• **APL 1.2**
  
  - Simple, easy to use model for 1 or 2 gravity cup guns

**Typical use:**
Serial tests of refinish paints

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**Basic equipment:**
- All stainless steel casing
- Ex-proof according to ATEX II 2G T4
- Dimensions: 1,500 x 1,450 x 800 mm (WxHxD)
- Test panels: even steel panels up to 400 x 600 mm (WxH)
- Electromechanical control system
- Stepwise painting, even or wedge coat – selection of four adjustable modes by hand wheel
- Manual adjustment of the horizontal painting area
- Up to four coats within one painting program
- Adjustable flash off times
- Horizontal paint speed: 0.2 – 1.0 m/sec
- Spray air pressure regulation by one manual pressure regulator
- Electrical power supply: 230 VAC, 5 A
- Air supply: min. 5 bar, filtered and dried

**Options**
- Many different gravity cup gun types (conventional, RP, HVLP) available
- Configuration for 2nd gravity cup gun with separate manual pressure regulator
- Modification of dimensions (for larger test panels or smaller spray booths)
- Test panel support with suction pads for e.g. aluminum or plastic test panels

**Price on request**
• **APL 2.2**
  - *Full automatic model for 1 or 2 gravity cup guns*

**Typical use:**
Serial tests and development of refinish paints, testing of raw materials

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**Basic equipment**
- All stainless steel casing
- Ex-proof according to ATEX II 2G T4
- Dimensions: 1,500 x 1,450 x 800 mm (WxHxD)
- Test panels: even steel panels up to 400 x 600 mm (WxH)
- Electronic control system (Siemens SPS) with 5.9” monitor and stainless steel trackball
- Storage for up to 1,000 painting programs
- Manual adjustment of the horizontal painting area
- All spraying parameters except spraying air pressure (option) are controlled and stored within the electronic control system
- Stepwise or zigzag painting, even or wedge coat
- Individual adjustable flash off times after each coat
- Complex coats (e.g. coats with two guns/paints in succession) possible by serial programs
- Horizontal paint speed: 0.2 – 1.0 m/sec
- Vertical paint speed: 20 – 80 mm/sec
- Spray air pressure regulation by manual pressure regulator
- Electrical power supply: 230 VAC, 5 A
- Air supply: min. 5 bar, filtered and dried

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**Options**
- Many different gravity cup gun types (conventional, RP, HVLP) available, e.g. with one air supply or separate atomizing and fan air supply
- Configuration for 2nd spray gun with separate manual air pressure regulator painting program
- Spraying air regulation by automatic pressure regulation valves (air pressures will be stored within)
- Modification of dimensions (for larger test panels or smaller spray booths)
- Test panel support with suction pads for e.g. aluminum or plastic test panels
- Heating system for paint and spraying air (up to 70 °C)

**Price on request**
**APL 3.2**

- Full automatic model for 1 or 2 gravity cup or automatic guns

**Typical use:**
Serial tests and development of refinish and OEM paints

**Basic equipment:**
- All stainless steel casing
- Ex-proof according to ATEX II 2G T4
- Dimensions: 1,500 x 1,750 x 800 mm (WxHxD)
- Test panels: even steel panels up to 400 x 600 mm (WxH)
- Electronic control system (Siemens SPS) with 5,9" monitor and stainless steel trackball
- Storage for up to 1,000 painting programs
- Manual adjustment of the horizontal painting area
- All spraying parameters except spraying air pressure (option) are controlled and stored within the electronic control system
- Stepwise or zigzag painting, even or wedge coat
- Individual adjustable flash off times after each coat
- Complex coats (e.g. coats with two guns/paints in succession) possible by serial programs
- Horizontal paint speed: 0,2 – 1,0 m/sec
- Vertical paint speed: 20 – 80 mm/sec
- Spray air pressure regulation by manual pressure regulator
- Electrical power supply: 230 VAC, 5 A
- Air supply: min. 5 bar (7 bar with material conveying unit), filtered and dried

**Typical use:**
Serial tests and development of refinish and OEM paints
**APL 3.2**

- **Full automatic model for 1 or 2 gravity cup or automatic guns**

**Options**
- Many different gravity cup gun types (conventional, RP, HVLP) available, e.g. with one air supply or separate atomizing and fan air supply (automatic gun types only with option "material conveying unit")
- Configuration for 2nd spray gun with separate manual pressure regulator
- Spraying air regulation by automatic pressure regulation valves (air pressures storable within painting program)
- One or two material conveying units with 3 or 6 ccm metering pumps (30 – 450 ml/min or 60 – 900 ml/min); flow rate continuously adjustable (storable within painting program)
- Automatic quick cleaning system for pumps/paint lines with two different solvents (only with option material conveying unit)
- Modification of dimensions (for larger test panels or smaller spray booths)
- Test panel support with suction pads for e.g. aluminum or plastic test panels
- Turntable test panel support (90° turning) for crosswise coat
- Heating system for paint and spraying air (up to 70 °C)

**Price on request**
**• APL 4.6**

- All-purpose top-of-the line model for pneumatic painting

**Basic equipment**
- All stainless steel casing
- Ex-proof according to ATEX II 2G T4
- Dimensions: 1,500 x 1,750 x 800 mm (WxHxD)
- Test panels: even steel panels up to 400 x 600 mm (WxH)
- Electronic control system (Siemens Industrial-PC, Soft SPS) with 19” color monitor and stainless steel Trackball
- Storage for almost unlimited number of painting programs
- All spraying parameters are controlled and storable within the electronic control system
- High flexible step by step design of painting programs – orientated on industrial painting robots
- Individual adjustable flash off times after each step
- Horizontal paint speed: 0.1 – 1.5 m/sec
- Vertical paint speed: 1 – 200 mm/sec
- High-precision positioning and metering by synchronous servo motors
- Spray air pressure regulation by automatic pressure regulating valves (separate atomizing and fan air)
- Easy import and export of painting programs by USB-stick
- Remote service possible
- Electrical power supply: 400 VAC, 10 A
- Air supply: min. 7 bar, filtered and dried

**Typical use:**
Serial tests and development of OEM paints
• **APL 4.6**

*All-purpose top-of-the line model for pneumatic painting*

**Typical use:**
*Serial tests and development of OEM paints*

**Options:**
- Many different gravity cup and automatic gun types (conventional, RP, HVLP) available (automatic gun types only with option “material conveying unit”)
- One or two material conveying units with 3 or 6 ccm metering pumps (30 – 450 ml/min or 60 – 900 ml/min); flow rate continuously adjustable (storable within painting program)
- Automatic quick cleaning system for pumps/paint lines with two different solvents (only with option material conveying unit)
- Modification of dimensions (for larger test panels or smaller spray booths)
- Test panel support with suction pads for e. g. aluminum or plastic test panels
- Turntable test panel support (90° turning) for crosswise coat
- Heating system for paint and spraying air (up to 70 °C)

**Price on request**
**Basic equipment**
- Casing made from stainless steel/plastic
- Ex-proof according to ATEX II 3G T4
- Dimensions: 2250 x 2500 x 1670 mm (WxHxD)
- Test panels: even steel panels up to 600 x 600 mm (WxH)
- Electronic control system (Siemens Industrial-PC, Soft SPS) and external operation terminal with 19" color monitor and stainless steel trackball and keyboard
- Extensive safety configuration for maximal user safety
- Equipped for operation of 2 ESTA bells
- Paint supply by two metering pumps (continuously regulation of flow rate); free paint way selection by colour changer (colour change also possible within paint program)
- Storage for almost unlimited number of painting programs
- Fully automatic, program controlled adjustment of substrate-atomizer distance
- All spraying parameters are controlled and storable within the electronic control system
- High flexible step by step design of painting programs – orientated on industrial painting robots
- Individual adjustable flash off times after each step
- Horizontal paint speed: 0.1 – 1.2 m/sec
- Vertical paint speed: 10 – 200 mm/sec
- High-precision positioning and metering by synchronous servo motors
- Integral/Integrated high voltage supply up to 100 kV / 800µA
- Rotation speed regulation of atomizer up to 100,000 U/min
- Steering air pressure by automatic pressure regulating valves (separate steering air 1 and steering air 2)
- Automatic quick cleaning system for pumps/paint lines with two different solvents
- Extensive control and monitoring functions to prevent operating error
- Easy import and export of painting programs by USB-stick
- Remote service possible
- Electrical power supply: 400 VAC, 16 A
- Air supply: 9 - 10 bar, filtered and dried

**Typical use:**
*Simulation of industrial automotive painting*
• **APL 6.0**
• High end automatic model for ESTA bells

**Options**
- Volumetric measuring/regulation system for steering air
- Turntable test panel support (90° turning) for crosswise coats
- Automatic fire-fighting system (for atomizer)

**Price on request**
• **Special design**
  • *Customised constructions*

**PSU**
Paint supply unit

**Main features**
- Plug and Play
- Ex-proof according to ATEX II 2G T4
- Automatic quick cleaning system for pumps/paint lines
- Customer defined interfaces

*More information on request*
**Main features**
- Plug and Play
- Ex-proof according to ATEX II 2G T4
- Customised testing bench for calibration of your application techniques

**More information on request**
Main features
- Plug and Play
- Customised spray booth
- Including application technology
- Ex-proof according to ATEX II 2G T4
- Customer defined interfaces

More information on request
Worldwide successful
notes
OERTER APPLIKATIONSTECHNIK

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