Designed
Developed
and Made
in Germany

RheinlandPfalz

wallPen® is supported by the European Union within the
framework of the the European Regional Development Fund
for the for the research and development of innovative wall-
print technologies.

wallPen®

wallPen®

IIP

wall e2 Pen

The new wallPen® E2:
The whole is more than the
sum of its parts.

What do you get when you put many 1000 hours of work and and customer feedback into a concept that has already been tried and tested on a daily basis? That's exactly what we wanted to find out when we started to design our innovative wallPen® wall printer from scratch. We have now been proudly presenting the result since September 2021.

Since 2015, we have been working with full commitment on a device that allows you to print walls with photo-realistic motifs. At the beginning, we didn't realize what a strenuous and exciting journey would await us. When our E1, the first wall printer manufactured in Germany, was launched in 2017, it was already a small revolution. In 2019, the improved E1plus followed. But with the development of a completely new generation of devices, we have fulfilled a dream.

The wallPen® E2 may look similar to its predecessors on the outside - but its interior boasts a completely new technology into which all our know-how of the last five years has flowed. We have made more than 100 improvements to this new generation of devices compared to its predecessor - ensuring better handling and even more impressive print results.

The E2 is also 100% made in Germany. And we are enormously proud of the fact that we produce the world's most advanced wall printer here in the middle of Germany. The wallPen® E2 is the optimal platform for future developments, because it is 100% updateable and future-proof.

In this brochure, we will introduce you to all the features and highlights of our new wall printer. And as always, we look forward to your feedback and testimonials with this new device.

Wallprint: the (R)evolution of wall design - Made in Germany.

A wall print is a technical process, which allows any motif to be printed photorealistically onto a wall surface. The patented wallPen® UV wall printer prints on almost any surface - regardless of material and unevenness. It works quickly, cleanly and quietly.

Print job at the
FC Bayern World in Munich
Volume: 130 m²
Special feature: concrete printing

Simply scan the QR code
to watch the casefilm

GOOD FOR THE ENVIRONMENT

- Vegan ink - made in the EU
- Non flammable
- Small carbon footprint due to local manufacturing in Germany

FAST & SIMPLE

- One device for all surfaces
- Indoor prints are durable for at least 12 years
- Direct print on the wall - no drilling or screwing required
- No more slipping or falling down
- Designs are easily reproducible
- Prints can be flexibly adapted to room size and height

OUR PROMISE OF QUALITY

- Brilliant colors
- Scratch and abrasion resistant
- Lightfast (12 years indoors)
- True color results thanks to ICC profiles
- Waterproof and solvent resistant
- Easy to clean

COUNTLESS POSSIBILITIES

- Boundless designs
- Prints on rough surfaces
- Spot colors possible
- Unlimited width / maximum print height 3,5 m
- Almost all surfaces printable*
- Can be combined with other design techniques (e.g. gold leaf)
- One ink for all surfaces*

wallPen

* The respective printing substrate may have to be pre-treated. Each material should be tested before printing.

The new gold standard for printing on walls.

White printing with fifth
Printhead optionally possible*
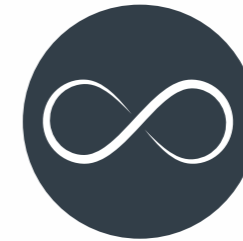
Wallprint in limitless width

High printing speed
with up to 16 m² per hour
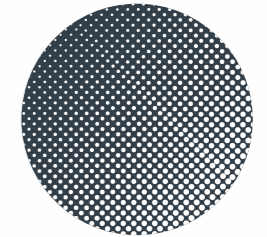
Maximum print resolution of 1200 dpi

Variable size
of the ink droplets
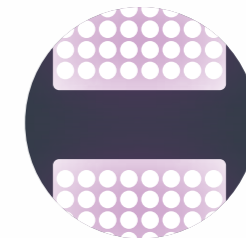
Instant ink drying
through UV LED technology

Prints up to 3.5 m high
in one pass

True-color wall prints in the entire
CMYK color spectrum

* Available soon

IIP

+stone

+leather

+metal

+fabric

+glass

+wood

+acrylic glass

+acoustic panels

The wallPen® prints on almost anything.*

The wallPen® E2 opens up unimagined possibilities.
The innovative technology makes it possible to print on
any vertical surface - regardless of the material and
and in almost unlimited size.

*If necessary, the respective printing substrate must be pre-treated. Each material should be tested before printing.

+plaster

+wallpaper

+concrete

+woodchip

+plastic

+brick

IIP

Designed
Developed
and Made
in Germany

Vegan ink

Saves waste, since neither
foils nor stencils arise

Free from solvents
and thinners

No production of
Pressure screens necessary

Transportable in car

reproducible

Innovative and groundbreaking - also in terms of nature.

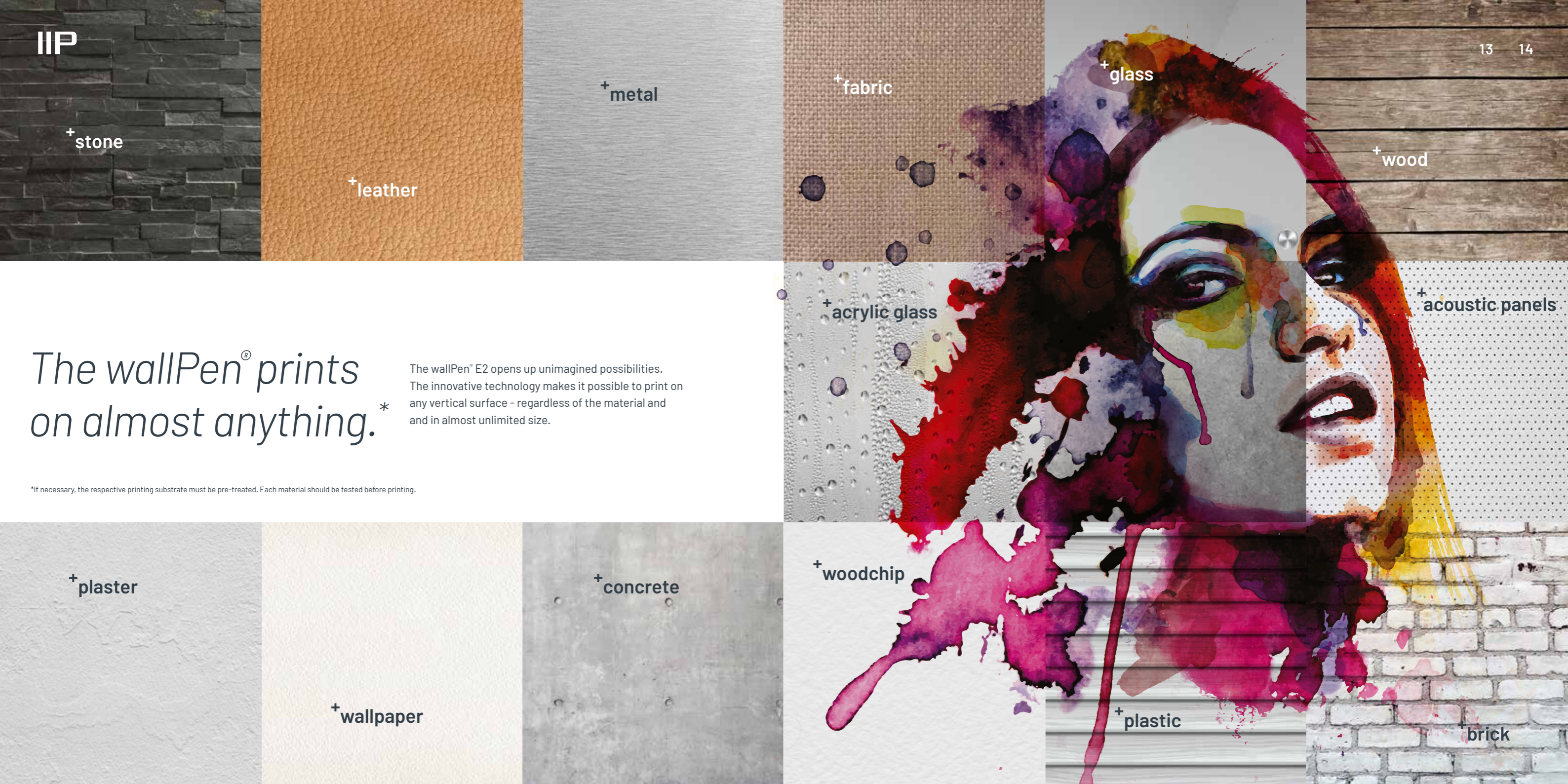From the very beginning, it was important to us that we know all our suppliers personally - and that we can guarantee full transparency and the greatest possible independence from world markets at all times. The individual components of the wallPen® therefore do not have to travel the world to reach us. For the most part, they come from suppliers in the immediate vicinity of our production facility in the Cologne/Frankfurt/Siegen area.

When attitude meets action
The wallPen® brand stands for more than high-tech. We also see ourselves as a role model for other companies. That's why we actively take responsibility for the environment, for the people who work for us and for our suppliers. This is not only good for nature.
After all, imagine the amazement in your eyes when you see that after a successful print job - instead of huge piles of waste.
instead of huge mountains of trash made from PVC film.

Wall printing is an innovative way of wall design - and also a signpost to the future in terms of environmental protection.

Pleistozän

Miozän

Oligozän

Eozän

Perm

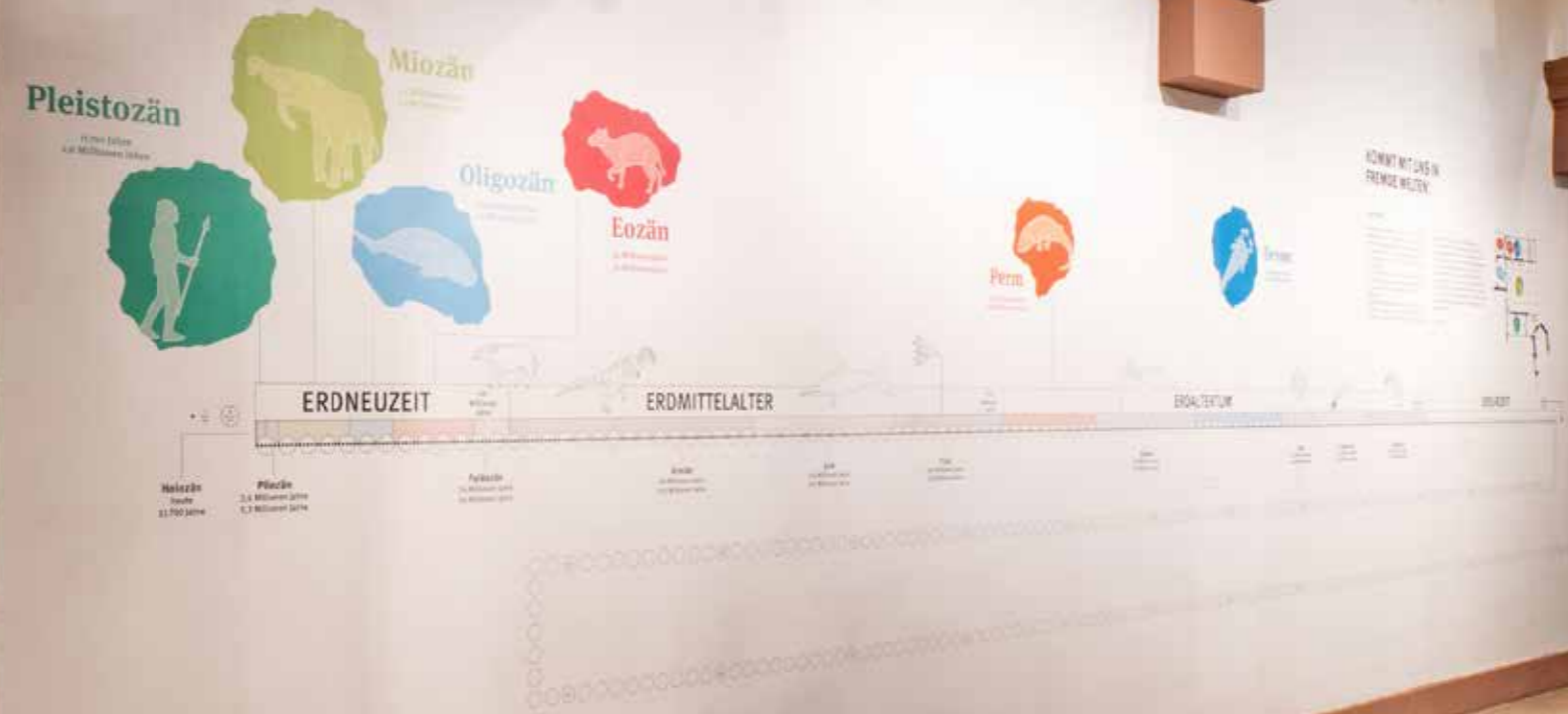ERDNEUZEIT   ERDMITTELALTER   ERDALTERTUM

Take a look here at the
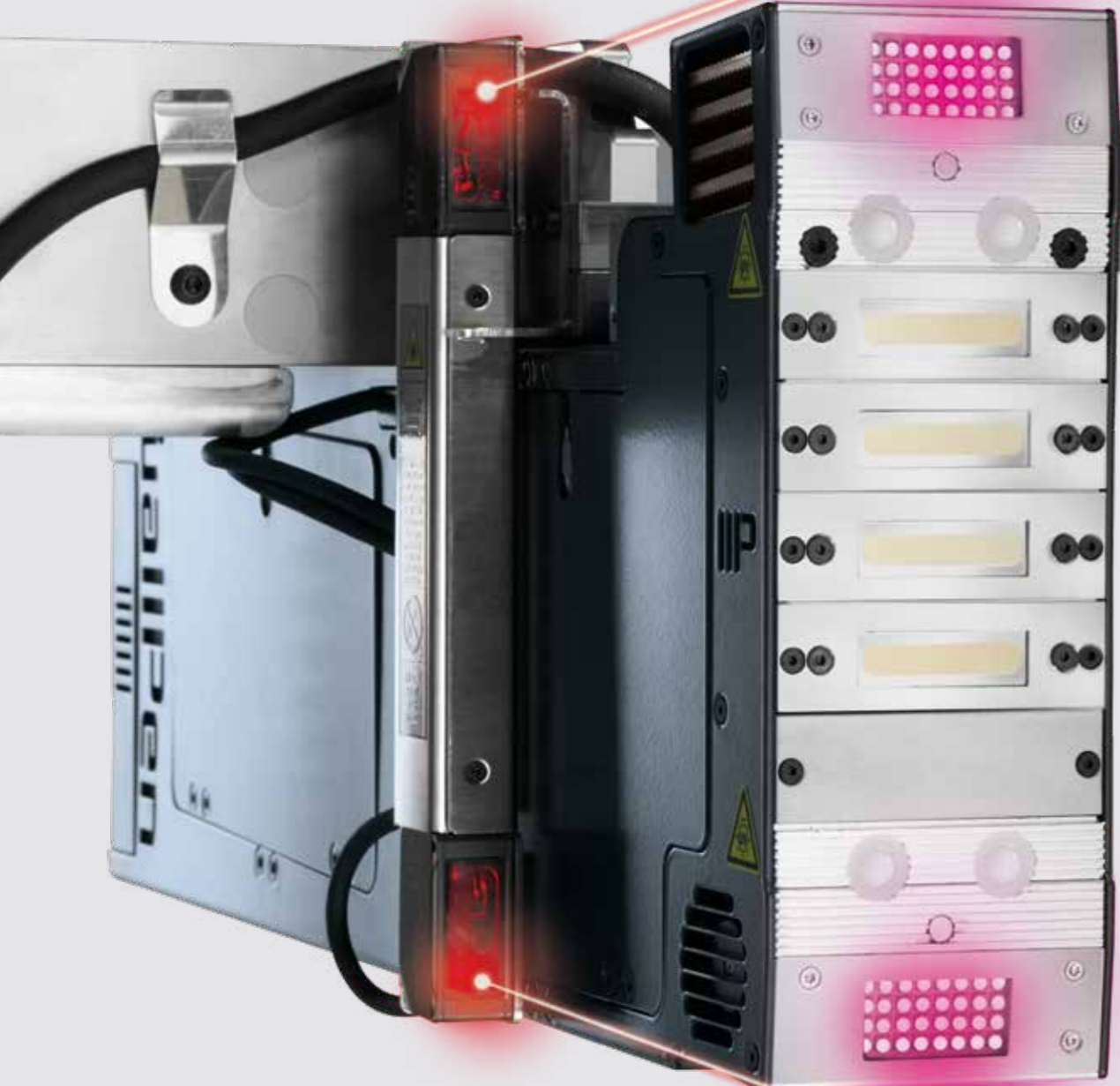print job in the Natural
History Museum Mainz
as a time lapse.

E2 *SIMPLY*

EVOLUTIONARY

The new wallPen® E2 – the vertical wall printer

The brain of the wallPen® E2: the new print head.

The heart of the wallPen® E2 is the new printhead unit. It serves as the central control unit and is located directly in the printhead housing. This greatly simplifies maintenance and servicing of the central electronics.

To form and fire the ink drop, every printhead needs electronic pulses. With the E2, these pulses can be programmed. In this way, we can guarantee that every ink drop is formed perfectly, ensuring an ideal print result.

The printhead unit in the new E2 supports up to five printheads. The optional fifth head is suitable for printing special colors such as white.

Each of the sensitive print heads is individually sealed by a Teflon gasket to prevent ink from flowing into the housing. This also guarantees long durability and optimum print quality.

A drop is a drop is a drop.
Not quite, because low-quality inkjet printers often experience problems such as nozzles drying up or blurred print images, and this causes considerable costs. That's why at wallPen® we use testing procedures to perfectly match the printheads and all components of the wallPen® E2.

Our "Drop Shape Analyzer" allows us to model the drop shape in detail under laboratory conditions to produce a perfect print image.

The wallPen® axis system. Patented several times and unique worldwide.

The wallPen® E2 scores with a completely revised axis system for even easier handling. Specifically this means that the vertical axis has been divided into three segments (70 cm each) as standard. This makes the wallPen® E2 even easier to transport and more flexible in adapting to different room heights.

The shape and position of the cross strut has been chosen so that there is no need to dismantle it when the printer is driven through a door frame.

For prints over 3 m high (optional), an extension can be screwed onto the existing cross strut to ensure stability even at this height.

Only one tool for the assembly of the whole printer. Included in delivery.

Locating pins and precision CNC machining ensure a clean transition.

Already included in the basic package

Immediately to the first customer – the wallPen® E2 as a ready-to-use business solution.

240 cm
230 cm
220 cm
210 cm
200 cm
190 cm
180 cm
170 cm

70 cm axis element included in the basic package of the wallPen® E2.

170 cm minimum print height – wallPen® E2 without axis extension

Included in the basic package

wallPen® E2 + one vertical axis extension

- 1 x 70 cm axis element
- Ink for approx. 100 m2
- transport bags
- training
- software
- 7 inch tablet
- Marketing material

70 cm

With the wallPen® E2 business starter package, you can get started right out of the box - plug 'n' print, so to speak. Everything you need for professional use is included in the scope of delivery. With the included tools, the new wallPen® can be set up in five minutes.

The transport bag - Made in Germany - ensures safe storage and easy safe storage and easy transport of the device. For a printer height of 2.40 m, an additional 70-cm axis extension is included.

A set of ink cartridges and a 7-inch tablet for convenient operation of the E2 are also included in the scope of delivery.

Optionally available
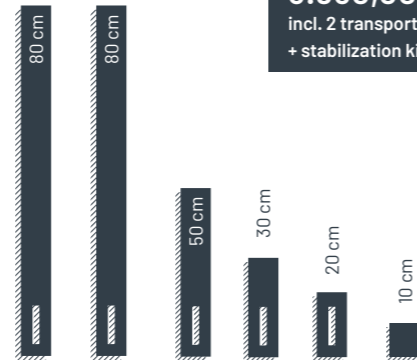
Simply go higher –
with the axis extension set.

Thanks to a variable plug-in system, the wallPen® can be quickly and flexibly adapted to different ceiling heights on request, allowing motifs to be printed at the optimum height wherever and whenever required.

400 cm maximum printer height with additional axis kit

Optionally available

Scope of delivery axis extension set

The set includes all axis lengths to build up the printer in 10 cm increments from 1.7 m up to 4 m:

• 2 x 80 cm vertical axis extensions
• 50 cm vertical axis extension
• 30 cm vertical axis extension
• 20 cm vertical axis extension
• 10 cm vertical axis extension
• Stabilization kit (recommended for wall prints over 300 cm)
• 2 x transport bags

3.960,00*€
incl. 2 transport bags + stabilization kit

80 cm   80 cm   50 cm   30 cm   20 cm   10 cm

The 70 cm axis element is already included in the basic package.

*recommended retail price, plus VAT & shipping. Status 10/2021

400 cm
390 cm
380 cm
370 cm
360 cm
350 cm
340 cm
330 cm
320 cm
310 cm
300 cm
290 cm
280 cm
270 cm
260 cm
250 cm
240 cm
230 cm
220 cm
210 cm
200 cm
190 cm
180 cm
170 cm

IIP

Functional and compact. The design of the wallPen® E2.

For the design of the new wallPen® E2, we focused on easy handling and industrial quality. The fact that the E2 also looks good with all its functionality is thanks to a slim design and a coherent color concept in silver and anthracite.

The power connection is located directly on the platform, which guarantees clean routing of the cable during the printing process. The wallPen® E2 is supplied with country-specific power plugs and is operated with a standard household power supply between 100 and 240 volts. The internal power supply and data connection is provided by special cables. The spiral cable is designed for the maximum height of the printer of 4 m.

The lasered and milled logo elements not only harmoniously round off the design of the wallPen® E2, but also ensure optimum ventilation for various hardware components.

Brilliant black and white print of a 200 years old old map from a historical archive.

Take a look at the print job here.

German Engineering
par excellence.
The electronic components
– Made in Germany.

In the new wallPen® E2, we have installed only high-quality industrial components. Almost all components come from leading manufacturers and suppliers from Germany and Europe. Our wall printer is a professional high-tech tool designed for daily use on construction sites. That is why we attach great importance to reliability, stability and durability.

The inner workings also ensure this: The E2 runs with proven ARM processors of the latest generation UNIX-based processors. The hardware layout and the development and assembly of the boards are carried out entirely in Germany.

Details of the wallPen® Unix distribution:

– Code in "RUST" and "C".
– Multiprocessor technology with
   32-bit ARM processors
– with 6 processors (with 5th print head
   with 7 processors)
– Multi-channel SPI data transfer
– 256 GB internal memory

The wallPen® E2 – the professional tool, that thinks ahead.

With the new wallPen® E2, you can print on almost any surface.
The wall printer also easily masters walls with holes and cracks.
The built-in laser sensor system compensates for unevenness up to a difference
of up to 10 cm.

This means that even uneven walls can be printed with the wallPen® E2.
The laser automatically measures the largest and smallest distance to the wall.
Using this information, the wall printer optimally adapts the printing process to the
to the conditions - and ensures great results even on uneven walls.

High-precision guidance of the print head towards the wall.
Compensates for wall unevenness of up to 10 cm.

The high-quality industrial power supply of the German
manufacturer PULS allows a supply voltage of 100 to 240V ~.
at 50/60 Hz.

Quality Made in Germany - the new tailor-made transport bags.

What does one of the last bag sewing factories in Germany have to do with the new development of our wall printer? Quite a lot, because that's where we get our specially made transport bags for the wallPen® E2 - Made in Germany, of course.

We are still thrilled to have found such a handicraft company in Germany. Because this way, these important accessories do not have to travel the world from the Far East to us.

The wallPen® is perfectly protected and safely stowed away at all times thanks to the precisely fitting transport bags. That is why this ingenious set of bags is not a paid add-on, its already included as standard in the scope of delivery.

The bags are designed so that you can transport the wallPen® easily and simply. The bags also have a small volume, so that the wallPen® E2 can fit in a standard small car.

Small transport volume of 285 l

Intuitive and independent: the new software of the wallPen® E2.

Even the best hardware in the world is only as good as the smart software running in the background. That's why our development team here on site has put many tens of thousands of lines of code and countless hours into a new software version that can be used to control the wallPen® E2.

The effort was worth it: because the newly developed wallPen® Control is intuitive to use and has a clear user interface with all the important functions at a glance.

wallPen® E2 Control
The wallPen® E2 has a modern user interface that is optimized for touch input. Input, which can be operated independently of the operating system via Wi-Fi.

The tablet supplied connects automatically to the WLAN network of the wall printer and starts the modern interface.

For convenient control, a 7-inch Android tablet is already included with the wallPen® E2. However, you can also use your own tablet, smartphone or laptop for device control.

The following software features are included in the wallPen® Control directly:

• Preview of the print motif with details such
  as print size, ink consumption and printing
  time even before printing begins
• Visual and percentage progress display
• Available in more than 20 languages
• User-defined min. and max. Limits of
  vertical movement
• UV intensity adjustable at any time
• Print can be paused and resumed at any
  continued at any time
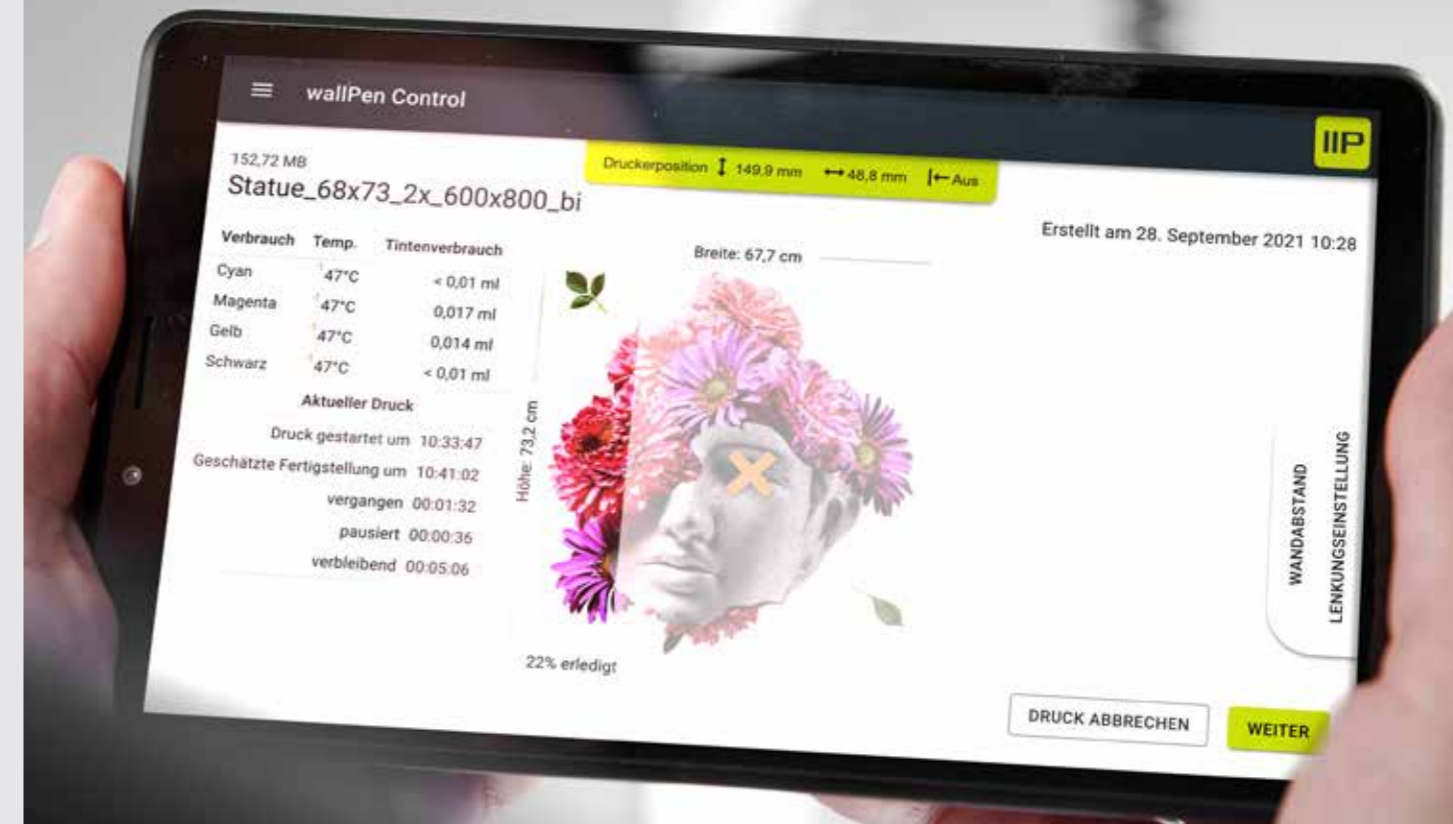
The innovative fuel for your wall ideas.

Our specially developed UV inks make all the difference. And like all components of the wallPen® ecosystem, they were developed under the highest environmental standards. The UV inks are produced in Europe specifically for wallPen®.

The inks are ideal for wall printing because they cure within milliseconds and are instantly scratch and abrasion resistant. The prints are guaranteed color fast for at least 12 years. All the motifs you apply to the wall with the wallPen® E2 can be repainted at any time. You can paint over them at any time - and reprint the spot again and again.

Our inks are ISO 9001-2015 certified, vegan and do not contain solvents or thinners. Customized special colors can also be realized through individual ink mixtures. All RAL & Pantone color spaces can be printed with our UV ink, so you can also bring the color specifications of corporate designs exactly onto the wall.

Areas of application:
The ink of the wallPen® E2 is suitable for almost any application. As it is sterile and abrasion-resistant, walls in children's rooms, doctors' surgeries and historic preservation areas can also be printed without any worries.

Always one step ahead. The wallPen® E2 is the entrance ticket to a unique universe.

Become part of the wallPen® ecosystem. When we developed the wall printer, it was important to us from the beginning to provide you with an exceptional customer experience in addition to a high-quality product.

Market-proven equipment
As the inventors of the wallPen®, we ourselves have been wall printers from the very beginning. After all, we print about 500 m² of wall surface every year. The wallPen® E2 is the result of our years of experience with a wide variety of wall printing projects.

Continuous marketing support
We support you with inspiring image, video and text material for your customer acquisition. We also create personalized promotional materials such as brochures or flyers upon request. Currently we offer our marketing support in German and English. (Other languages are under development).

The device & equipment
With the wallPen® E2 you can start immediately. Because with us there are no complicated equipment lists like with the car manufacturers. Our main motto is: Keep it simple!

No variable costs
Apart from the occasional purchase you have no ongoing costs, because the wallPen® E2 is easy to update and you can also maintain the device yourself without subscription or franchise costs.

Technical support
Our customer service currently advises you in German and English - other languages are being worked on. Our support team consists of trained technicians who know the wall printer like the back of their hand and can help you with any technical problem. We also offer an efficient and fast ticket system for technical questions.

High-quality training on the device
With every wallPen® E2 you receive personal training from our experts - live or via video call. Here you will learn all the important details about the device. We also show you how to optimally prepare graphics and how to maintain the device yourself.

Sales support
We not only sell wall printers, we also know how to acquire wall printing orders. Benefit from our experience for your own sales.

Start-up advertising package
The wallPen® E2 already comes with a comprehensive start-up advertising package. You can get started with your marketing activities right away.

wallPen
360°

MARKET PROVEN EQUIPMENT

CONTINUOUS MARKETING SUPPORT

DEVICE & EQUIPMENT

NO VARIABLE COSTS

TECHNICAL SUPPORT

HIGH QUALITY EMPLOYEE-TRAINING

DISTRIBUTION-SUPPORT

START-ADVERTISING PACKAGE

OFF ON

wallPen

IIP

Photorealistic animal collages in Oversize.

Extensive wall printing project at the Inclusion Hotel Five10 in Siegen.