# Product Portfolio

High-End UV-LED flatbed printers



**swissQprint**

# The new era in flatbed printing

Learn all about the completely redesigned swissQprint platform – the springboard you need to outpace the competition.

## Productivity

Maximum output guaranteed. Based on state-of-the-art components like linear drives, with efficiency-boosting features for a smooth workflow.

| +23 % | Dual roll option | Tandem mode |
|---|---|---|
| Faster than generation 4 | Double the output | Non-stop printing |

## Versatility

Extend your colour palette with light colours, white, varnish, neon, orange and primer. Process any format and enhance prints with tactile and visual effects.

| 10 colour channels | Roll to roll option | Oversize board option |
|---|---|---|
| Individually configurable | For rolls up to 3.2 m wide | For boards up to 4 m long |

## Quality

You will impress your customers with print results of the highest calibre, thanks to the all-new mechanical and electronic foundation – made in Switzerland.

| 1350 dpi | 36-month warranty | 25 years |
|---|---|---|
| Resolution | Supported reliability | Development experience |

# Kudu
## The high-end flatbed printer

Kudu is a top-rank producer: huge output with superb print quality on board and roll media. This large format printer offers you the maximum in every respect.



**3.2 × 2 m**

Flatbed
For any format

**341 m²/h**

Productivity
Day and night

**2 to 3**

Print head rows
Expandable in the field

**10**

Colour channels
Endless possibilities

# Nyala 5
# The top seller among flatbed printers

Over 1000 customers around the globe count on their Nyala, day in and day out.
The strengths of this large format printer impress from every angle.

Nyala
N°1 in Europe
since 2015



| 3.2 × 2 m | 253 m²/h | 1 to 2 | 10 |
|-----------|----------|--------|-----|
| **Flatbed** | **Productivity** | **Print head rows** | **Colour channels** |
| **Process any format** | **24/7** | **Expandable at any time** | **Individually configurable** |

# Impala 5
## The compact flatbed printer

Impala achieves great things within the smallest footprint. All with high efficiency, impressive versatility and typical swissQprint quality.



**2.5 × 2** m

Flatbed
Small to large formats

**227** m²/h

Productivity
Multiple-shift operation

**1** to **2**

Print head rows
Your choice

**10**

Colour channels
Great versatility

# Universal large format printers
## For countless applications

swissQprint flatbed printers are successfully operating across a
wide range of industries and applications. In what direction can we help
your business to grow?

## Sign & display

Join the game of mixing materials and effects.
Your swissQprint system will play along with whatever
you cook up for your customers.

## Interior décor

Interior design is all about adding that personal touch.
swissQprint large format printers excel at creating
custom décor.

## Packaging & displays

swissQprint flatbed printers make an ideal choice
for prototyping and short-run production of packaging
and displays. A speciality: varnish embellishments.

## Fine art and photo printing

The pinnacle of digital printing – perfected by swissQprint: reproductions of paintings, challenging photographic and fine art prints of any format – on all sorts of substrates.

## Glass printing

Design elements made of vividly printed glass are an eyecatcher, and a speciality of swissQprint flatbed printers.

## Industrial printing

For membrane switches, touch displays and instrument housings, digital printing complements or fully replaces screen printing, with the utmost precision and reliability.

## Wood printing

Meet the increasing demand for bespoke interior design and packaging with swissQprint. UV printing directly on real or reproduction woods is a niche to be filled.

# Roll to roll option

Convert your flatbed printer into a full-fledged roll to roll printer. Just the job for films, banners, mesh and a whole lot more. Heat-sensitive materials included, thanks to cool LED curing. White ink extends your offering into coloured media and multilayer printing on transparent films.

The printer does its job reliably – even unattended. The control unit regulates the roll tension while the spreading roller smooths the material, helping to prevent crashes and rewind the material neatly. The spreading roller also dissipates static charge for perfect droplet placement and flawless prints.

| Roll width | Roll weight | Roll diameter |
|------------|-------------|---------------|
| 3.2 m \| 2.5 m | 180 kg | 36 cm |

# Dual roll option

Do you often process narrow rolls? Here too, swissQprint offers a simple solution. The dual roll option can print two rolls of material in parallel, doubling the productivity. The patented Tip Switch Vacuum controls the vacuum in small segments – it can even be shut off in the space between rolls. No masking is needed, and optimum vacuum is guaranteed.

Material edges sticking up? Use the edge holders made of stainless steel. Just a few simple steps attach them to the print bed, ready to keep those edges in place.



| Roll width | Roll weight | Roll diameter |
|---|---|---|
| 1550 mm \| 1200 mm | 50 kg | 36 cm |

# Collector paper option

Full bleed printing on pre-cut boards has always been a speciality of swissQprint flatbed printers. Gain extra convenience and efficiency with the collector paper option! A permeable paper allows the vacuum to do its work, while holding back the ink. The collector paper option thus saves you from having to clean the print bed. Instead, you gain time for productive work.

For board registration, simply use the alignment edge instead of registration pins. The steplessly adjustable registration stops adapt to your formats.

**Good to know**
The collector paper option's non-intrusive design means that your printer stays accessible and versatile.

# Oversize board option

Create for new dimensions: The oversize board option lets you print boards
up to 4 metres long. Its clever controller regulates precise feeding over
the conveyor belt. Result: a seamless print covering the entire length. For example
on glass kitchen splashbacks, oversize construction site billboards,
impressive wall art and other products outside of the standard formats.

# Inks
# For high-quality digital printing

swissQprint considers inks an integral part of the product. As a user, you should be able to rely on the interaction of the ink with the hardware – and on consistent ink quality. This is precisely the mission of the ink laboratory at our Swiss headquarters, where we have systematically accumulated and expanded our ink expertise over recent years.

**Research and development:** Every ink set has its unique physical properties. But that's not something you need to worry about. Our ink experts determine the optimum parameters for every set.

**Systematic quality control:** You expect a consistent, reproducible print result – and rightly so. To ensure ink performance, we test each production batch for a series of defined properties.

**Application-specific tests:** Certain applications place exceptional demands on printed products. The swissQprint ink laboratory specialists compare the suitability and ink behaviour with your requirements.

# Custom ink configuration

You have complete freedom to assemble your colour palette the way you need it today. And to adapt it when the situation changes. There are 10 colour channels available, each one individually configurable.

**CMYK**
is the baseline, which you can supplement according to needs.

**Light magenta, cyan and black**
reproduce lifelike skin tones and render the finest gradients and shading.

**Primer**
enhances the adhesion to glass and metal.

**White,**
as a base layer or printed selectively, brings transparent and coloured media into the picture.

**Orange**
significantly expands the colour gamut in orange and red tones.

**Effect varnish**
applied partially or across the whole surface, produces visual and tactile experiences – even droptix 3D effects.
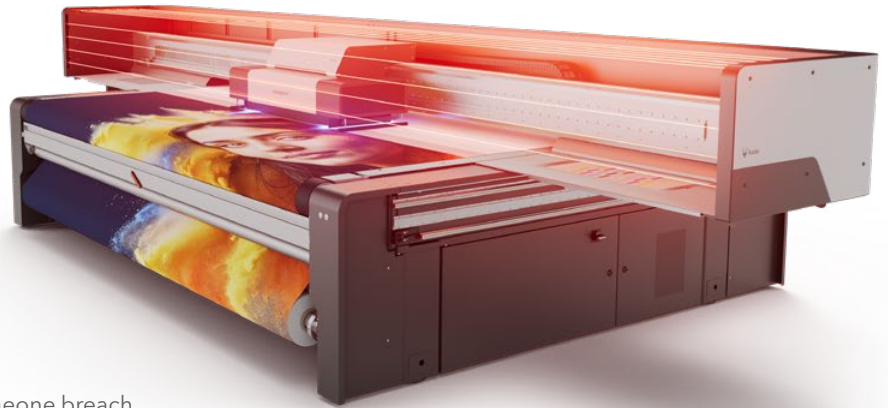
**Neon yellow and neon pink**
give printed materials that high-impact fluorescent look.

GREENGUARD GOLD

VOC Free

## Basics
## Smart features save costs and add value



## Light curtain

State-of-the-art safety. Should something or someone breach the light curtain, the print head carriage slows down to warn as well as protect the operator. Meanwhile, printing continues. There is no loss of time or material.





## Crash sensors

The Crash Sensor Technology helps prevent damage and rejects, say if the material thickness was entered incorrectly or corners on the material are sticking up.
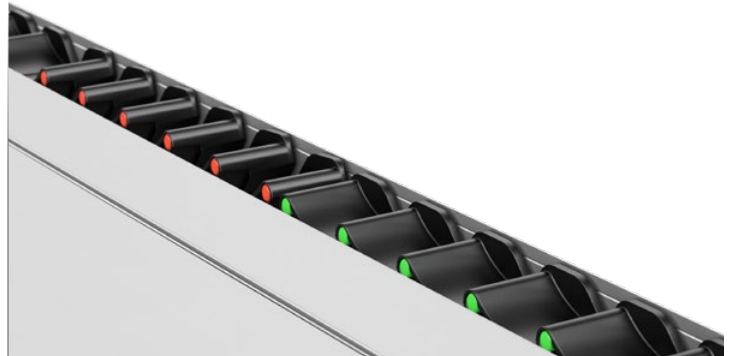
## Resume printing after a crash

Despite all precautions, there has been a material crash, and on the final few metres? It's not the end of the world. Via the output software, the operator can resume printing at the exact point where it stopped – and saves the day.

## Profitable LED technology

LED curing is cool. Using heat-sensitive media extends
your portfolio and opens up lucrative markets.
LED lamps are always ready to go, with no warm-up
or cool-down time. LED pays off thanks to a long
service life, high system availability and low mainte-
nance costs.



## Powerful vacuum

The patented Tip Switch Vacuum makes vacuum
control child's play! Control up to 256 segments
at the touch of a finger – fast and effortlessly.
The system can also blow, so heavy media floats
across the table.



## Registration pins

swissQprint registration pins. They are set in no time and
help to make full and efficient use of the print bed.
Inserted onto a fine grid, they provide precise mechanical
anchors on each side of the print bed. For any format
and multiple copies as well as for registration accuracy with
double-sided prints.

## Tandem

In tandem operation, you achieve maximum productivity. The machine and operator work together as a team. The principle is straightforward: The print bed has a front and a rear vacuum zone. Load it with media at the front and rear alternately while printing is in progress on the other side. This keeps the printer in non-stop operation for rapid series production.

# Technical specifications

| Dimensions | Kudu | Nyala 5 | Impala 5 |
|---|---|---|---|
| Flatbed, full bleed[1] | 3240 × 2030 mm | | 2540 × 2030 mm |
| Clearance | maximum 50 mm | | |
| Substrate weight | maximum 30 kg/m² | | |
| Dimensions (L × W × H) | 2.89×6.13×1.39 m | | 2.89×5.43×1.39 m |
| Weight | 2400 to 2600 kg | | 2200 to 2500 kg |

| Roll to roll option | | | |
|---|---|---|---|
| Roll width | 3200 mm × endless | | 2500 mm × endless |
| Dual roll width | 1550 mm × endless | | 1200 mm × endless |
| Roll weight[2] | maximum 180 kg / dual roll 50 kg each | | |
| Roll diameter | maximum 360 mm | | |

| Features | | | |
|---|---|---|---|
| Warranty | 36 months | | |
| Curing | UV LED | | |
| Tandem function | standard | | |
| Print area, Tandem each zone[1] | 3240×1015 mm | | 2540×1015 mm |
| Patented Tip Switch Vacuum | standard | | |
| Linear drives | standard | | |
| Addressable resolution | up to 1350 dpi | | |
| Visual resolution | up to 2540 dpi | | |

| Colours | | | |
|---|---|---|---|
| Colour channels | maximum 10 | | |
| Print heads | maximum 30 | maximum 20 | |
| Colour range | CMYK, light cyan, light magenta, light black, white, varnish, primer, orange, neon yellow, neon pink | | |
| Container size | CMYKcmk, orange 5 litres / white, neon, varnish 5 or 1 litres / primer 1 litre | | |
| UV-curable inks | ✓ | | |
| Solvent-free (no VOCs) | ✓ | | |
| Greenguard Gold certification[3] | ✓ | | |
| Indoor and outdoor applications[4] | ✓ | | |

| Installation environment | | | |
|---|---|---|---|
| Power supply | 3 × 400 V, 3L+N+PE (50/60 Hz)<br>3 × 480 V, 3L+N+PE (60 Hz)<br>3 × 208 V, 3L+PE (50/60 Hz)<br>excellent energy efficiency according to ISO 20690:2018 | | |
| Temperature range | +20°C to +30°C | | |
| Relative humidity | 40 % to 80 % non-condensing | | |

[1] In most print modes
[2] Single rolls: carbon roll holder for heavy rolls >100 kg or narrow rolls >0.3 kg/cm. Maximum 0.6 kg/cm.
  Specific customer application must be tested.
[3] Standard inks
[4] Neon: only for indoor applications

# Swiss made 🇨🇭
# Your competitive advantage

With swissQprint you benefit from unbeatable precision and reliability. You can also expect first-class service. This is a promise shared by our subsidiaries and partners. Our common goal is to ensure your smooth production.

## 100 %

**Swiss development & production**
Mechanics, electronics, output software – all in-house developments that we combine into a complete system for you.

## 90 %

**Components sourced in Switzerland**
Selected suppliers who promise the same quality as we do. 80 % of them are Swiss companies.

## 10

**Years and more**
That is the printer service life. Our machines impress with years of unchangingly high quality, giving them exceptional resale value.

## 36

**Months warranty**
You can rely on your swissQprint machine. We promise you that. You benefit from a 3-year warranty on your new large format printer.

Discover more

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Marc Baumgartner, CTO

"Over 30 % of the workforce at our Swiss headquarters is employed in research and development. Under the same roof as the production team. That's how we stay agile."

## swissQprint Greentech
## Sustainably developed and produced from the ground up

Since the company's founding in 2007, we have embraced sustainability out of conviction. Our large format printers are not only durable and energy-saving; they are also light on maintenance and resources. Our goal: maximum benefit for you and for our environment.

### 2.2 kWh

**Average power consumption**
swissQprint LED systems are all proven to be highly energy efficient (ISO 20690:2018).

### 95 %

**Recyclable components**
We use as many machine components as possible with potential for returning them to the circular economy.

### 0

**Fossil energy**
Since 2015, swissQprint has been headquartered in an energy-efficient building that operates without a fossil-fuelled heating and cooling system.

### 613 000 kWh

**Solar power**
1276 photovoltaic panels on the swissQprint roof supply us with renewable energy.

Discover more

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Reto Eicher, swissQprint co-owner

"Our quality standards and value system rest on our Swiss roots. We pay major attention to environmental compatibility, both in our products and in the way we run our business."

# swiss**q**print

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