



# INDUSTRIAL DIGITAL TEXTILE PRINTING SOLUTIONS

FOR THE WAY YOU WORK



## We are aeoon

All employees, partners and customers are part of the aeoon family.



## Everything from one single source

We are your professional contact for solutions in the digital textile printing sector.



## Made in Austria

All of our printers are manufactured with care, dedication and precision in Austria.





# What is DTG printing?

Direct-to-garment (DTG) is a digital printing method that uses inkjet technology to print directly onto fabrics. Think of it as an inkjet printer, but for textiles. Typically, a DTG printer has printing stations with interchangeable pallets that hold a garment in a fixed position while moving print heads spray the ink onto the garment.



# Become part of the aeoon Family!

**As consumer demand and expectations increase, digital printing is becoming the key to competitiveness and business growth.**

Digital printing is a considerable investment, so it's crucial you work with a partner who will help you evaluate your options and explain processes, costs and ROI over time. The right solution will expand your capabilities, increase efficiencies, delight customers and ultimately multiply your profits.

aeoon Technologies designs and manufactures industrial direct-to-garment printing machines. With our versatile printing solutions, we have exactly what you need to grow your business. We know that everyone in this business has unique needs, wants and requirements

and that's why we aim to accommodate your company with our machines and help you shift your business into whatever you want it to be.

We are here to be your partner – with our dedicated support team, our motivated print trainers and our experience in the DTG market, we aim to help you create the best version of your business.

We are a reliable partner with unique values who will continue to support you with our experience and know-how through everything you want to do with your business.

**We are looking forward to working with you.**

Best wishes,



Angelo Schiestl, Managing Director





## Interview with Managing Director Angelo Schiestl

# Thinking and walking new ways

**aeoon Technologies was founded in the hometown of Angelo Schiestl – Managing Director and founder. His philosophy to treat all employees, distributors, clients and partners like family has created strong, successful and life-long partnerships.**

### → Angelo, as a former screen-printing expert, why do you think is the DTG market growing so fast these days?

DTG has enormous advantages when it comes to small jobs. And – gradually – small jobs are what customers want. The general public is becoming aware of overproduction and waste. In addition to that, people nowadays are very interested in personalised and customised clothing as their want for individuality and self-expression keeps on growing, especially with the younger generation.

### → What are some of the advantages that customers have with using aeoon machines?

aeoon provides individual solutions and different machine sizes for a wide variety of companies. Each and every single one of our customers will receive the DTG equipment that is best suited for their business model and needs. And if – after a certain time – customers decide to expand or change their business model, aeoon DTG systems grow with them due to their modular build. Our machines are the fastest DTG printers for piece goods. Additionally to that, aeoon offers the widest range of pallets currently available on the market. Exceptional print quality and an excellent support and training system make sure that there are no limits to our customers' creativity.

### → You mentioned your support system. What makes aeoon's support system special?

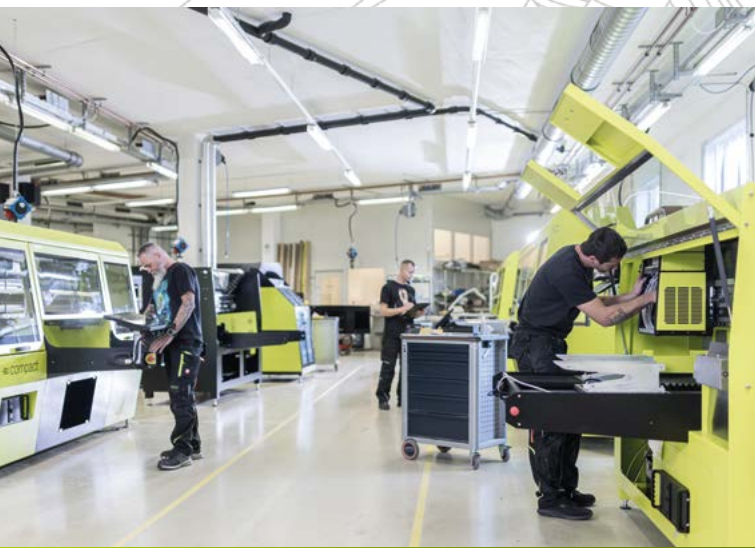
First of all, the fact that we are working with every customer individually and cut our methods precisely to the needs of our customers. We offer remote support and are currently working on digitalising our support system – with an online Helpdesk, a training app and Virtual Reality glasses. Additionally to that – if there are challenges that can not be resolved by the customer themselves, we offer technical assistance directly from either our distributor in the particular country or an aeoon technician from the Austrian headquarters. If you are part of the aeoon Family, we will do everything to turn your business into the most successful business it can be.

### → What is the aeoon Family?

We call our worldwide network of distributors, partners and customers our "aeoon Family". That's mainly because we think further into the future – if you decide for an aeoon printer, you do not simply buy an industrial machine, you buy everything that comes with it. The aeoon Family stands for a network of people with a passion for DTG printing who join their forces in order to create the best possible product and support system. Being part of the aeoon Family means having access to years of knowledge in DTG printing and a passionate worldwide group of people who will help you achieve anything that you want to achieve with your business.

### → What are some of aeoon's core values when working together with so many different people all over the world?

As a company, aeoon stands for inclusivity and equal rights. The aeoon Family shares a common goal – improving the DTG market and get the best results for customers. We believe in equality and treat everyone the same, no matter their gender, their religion, the colour of their skin, their sexual orientation, their age, their social environment, etc. We have a no-tolerance policy for discrimination and are very proud of our close-knit community within the company. Fortunately, we have been able to build up a great team with a strong sense of togetherness. A good atmosphere among colleagues creates a good workspace. My personal policy is: "If you are having fun doing something, you are going to do a great job at it."



aeoon DTG printers developed and produced in Austria.



**→ Despite working on such an international level, you are still very much connected with your home in Austria, right?**

Yes. All of our machines are designed, developed and produced directly at our headquarters in the Tyrolian village of Kramsach. 75% of all the components in the machines come from within a radius of 50km.

As a company, we are aware of the technical expertise within this area and are very proud to represent Austrian Engineering to the world. We are very homebound and try to be a strong economical player in our area, especially by always being open for new employees. A really important thing for me personally is to encourage young people to look into starting a career in the DTG business. Motivation and drive go a long way and the DTG industry has space for so many different talents because it's such a diverse business.

**→ You spoke about Austrian Engineering. How do you think do aeon machines represent the values of Austrian Engineering?**

Austrian Engineering is all about durability and smart design. We are not building machines that will print for one or two years and turn into a junkyard case after that. aeon printers have a very long design life and are built out of sturdy metal components. Our machines are designed for constant industrial use and their modular build makes them extremely flexible. We only use components of the highest quality and do not work with inside-spray-pre-treatment as it has been proven to damage the machine, as well as the print heads from within, thus shortening their work life. An aeon printer is meant to serve customers for as long as possible. And – in addition to that – we offer to trade-in printers after a certain time so that none of the high-quality materials go to waste.

**→ Refurbishing machines is clearly a very sustainable way of working! Are you putting a focus on that with your machines?**

Because we are located in the heart of the Alps, we are very aware of the fragility of our environment. We believe that every company, especially in the textile industry, should do their best to prevent environmental damage. aeon is currently working on an extensive sustainability strategy to expand the foundation that we have already built: Our water-based inks are GOTS-approved and OekoTex® certified, our dedicated R&D-team considers the environmental influence of our machines very carefully, even in the developing process. This is a strong point of aeon: Because everything happens in our headquarters, people of all departments are in close communication with each other. We have the possibility to take into account all aspects of building – and ultimately selling – our products.



Angelo Schiestl - Managing Director of aeon Technologies

**→ Printers are not the only products that aeon sells, right?**

No, of course not. We have a principle called the "aeon all-in-one solution". If you decide for an aeon printer, you don't just get a printer and have to look for everything else for yourself. We offer drying systems, pre-treatment systems, heat presses, print equipment, storage solutions, inks, consumables, software and so forth – all from one source. Basically, you are able to buy yourself a complete print shop at aeon. This holds many advantages for customers, especially because we offer so many different options and sizes of our equipment – there is aeon equipment for any size of industrial companies. No matter if you are a newcomer or already an established company. With our equipment and know-how, we'll set you up for success.

**→ Thank you very much, Angelo. Is there anything you would like to say as a closing statement?**

We want to innovate the business but more importantly, we want to make our customers successful. At aeon, we are constantly working on finding new ways to improve the ever-growing DTG market. We are looking forward to the future and can assure everyone that we have some great innovations up our sleeves.

**If you want to meet us in person or come to our Innovation Centre via livestream, please contact: [sales@aeon.com](mailto:sales@aeon.com)**  
Thank you.



Design without limits –  
color, complexity, quantity



**Sample prints :)**

You will be delighted with the quality of  
our prints. Order your sample box for FREE.  
[sales@aeoon.com](mailto:sales@aeoon.com)





# What you should consider when choosing a DTG printer

There are many types of DTG printers that range in price and quality, so it's important you find the best one for the way you work. Here are six key areas to consider to make sure you get the most out of your investment.

## 1. What is your daily production?

DTG printing is a substantial investment, so depending on your print volume, it may or may not make sense for your operations. For example, with the aeoon Maikuro DTG printer, you'd want to be reaching a minimum volume of 150 shirts/day. The aeoon Compact model is best for 300 shirts/day and the KYO 12/3 is ideal for 800 shirts/day or more. Evaluate what throughput is needed to see an ROI. For example, the KYO 12/3 would pay for itself for the rest of the month if it ran at full capacity for three full production days – which means you would be earning profit the other three weeks of the month. Work with a partner who will help you understand the best option for your production volume and the way you work.

## 2. Is the pretreatment process kept offline?

Separating critical processes is crucial to minimize failure points and downtime, and maximize efficiencies. Machines that integrate printing with other processes – such as pretreating and drying – have far too many failure points that put your entire operation at risk. For example, with an inline pretreatment process, if the pretreatment nozzle ever experiences an issue, your entire print operation goes offline. In addition, textile manufacturers are starting to launch pretreated garments which will eventually eliminate the pretreatment step.

## 3. Are quality and ink usage optimized?

The higher the print quality, the more your customers will be coming back. Print head performance is crucial in order to achieve the best possible results. When you consider buying a DTG printer, ask about the smallest picoliter droplet size, that the printheads are able to produce, and the maximum DPI (dots-per-inch). Colour accuracy is another important aspect to consider. Ideally, the printer's RIP (raster image processor) provides colour profiling, which covers a large amount of PMS colours, without requiring additional spot colours. A RIP that removes parts of an image that match the garment's colour will help you save ink.

## 4. Is continuous training and responsive support provided?

You're not just choosing a printer, you're choosing a partner. DTG is an evolving market and the learning curve can seem overwhelming at times. Your partner should be consultative and collaborative, helping determine and develop the best solution for the way you work. Continuous training should be provided to ensure you're always maximizing your investment. Having a dedicated support team is just as important. On-site and remote support options, as well as preventative maintenance visits, will ensure downtime is minimized.

## 5. What is the useful life and cost per print?


The total cost of ownership includes initial price, weekly output, ink costs, operator costs and more. Ideally, you want a printer that's capable of the highest output with one operator to achieve the lowest cost per print. Reliability and useful life are other big considerations. True industrial-grade printers, such as the aeoon KYO 12/3 have a useful life of more than 17 years which can be more than double the life of other available printers.

## 6. Will the printer integrate and be scalable long-term?

Avoid printers that come with proprietary software. Proprietary software limits your ability to choose the software that best matches your business model, and restricts your ability to change or add software solutions. Choose a printer that will integrate with a software solution of your choice to ensure the solution is scalable as your business grows.







**We have the  
machine you  
need today,  
and the power  
to scale with  
your business.**





**Customer: CEO Robert Hake – MyLocker LLC**

# The best scalable solution for POD fulfillment

**MyLocker is a company based in Detroit, U.S., that creates online stores for schools, leagues and teams. Everybody who would like to offer customised products without having the required inventory, is a potential customer for MyLocker.**

Customers can choose from a wide range of different products, including T-Shirts, sweatshirts, Triblend, etc. – in different weights, colours and combinations of fabrics.

MyLocker has more than 30 aeoon running 2 shifts/7 days a week. We have tested every commercial DTG machine and aeoon is by far the most scalable solution for POD fulfillment. Their high-definition prints, their cost per/print, and up-time reliability are the best in the market. aeoon Technologies blows the competition clean out of water.

CEO Robert Hake says: “aeoon produces the highest quality at the most competitive cost. We have a very intuitive user interface that lets customers go and create exactly what they want. They can personalise, they can have their own text, names, numbers to their design and make it theirs. The software we have, picks up that consumer generated design and it injects it into our aeoon machine for a very quick delivery.”

In order to always guarantee the best quality for our customers, we need high-quality, industrial-level equipment. Aside from that, the machines have to be easy to use, practical and sturdy. aeoon has been a great solution for us: Since switching over to aeoon, the quality of our prints has increased tremendously. Our prints stand out due to the designs' brightness and excellent handfeel. Working on an aeoon machine is also incredibly easy and all parts of the machine are well-accessible.

We started off with 20 Kyo printers and as our business continued to grow, aeoon's print quality enabled us to win orders that we would have never received without it. Another advantage of aeoon machines is their versatility. We are getting double the amount of prints per operator, per machine, than we had before. Another great thing about aeoon's printing systems is the external pretreatment process. We have doubled the production at half of the price because we prefer to have our printer doing exactly what it should do: Print. Not spending time pretreating.

In addition to all the benefits that the machines bring to the table, we are also very pleased with the service and support we have received over the years.



Robert Hake – CEO of MyLocker

[www.mylocker.net](http://www.mylocker.net)

**MY LOCKER**  
YOU DESIGN IT. WE MAKE IT. YOU WEAR IT.™

## CUSTOMER DETAILS:

### COMPANY:

MyLocker LLC, Detroit – Michigan

### BRANCHES:

POD Fulfillment, Apparel and Merchandise

### CUSTOMER SINCE:

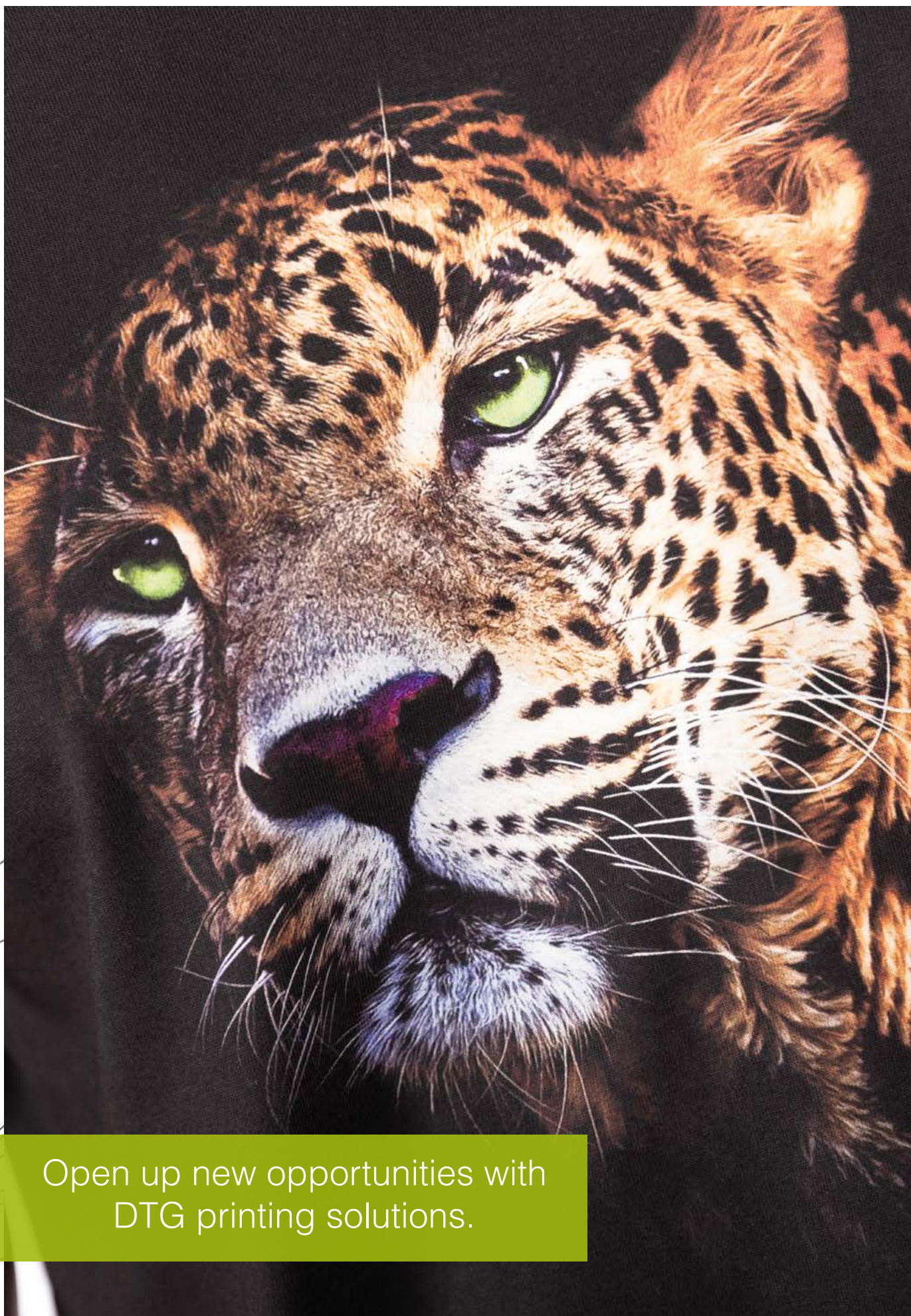
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### MACHINES:

35 Kyo Series







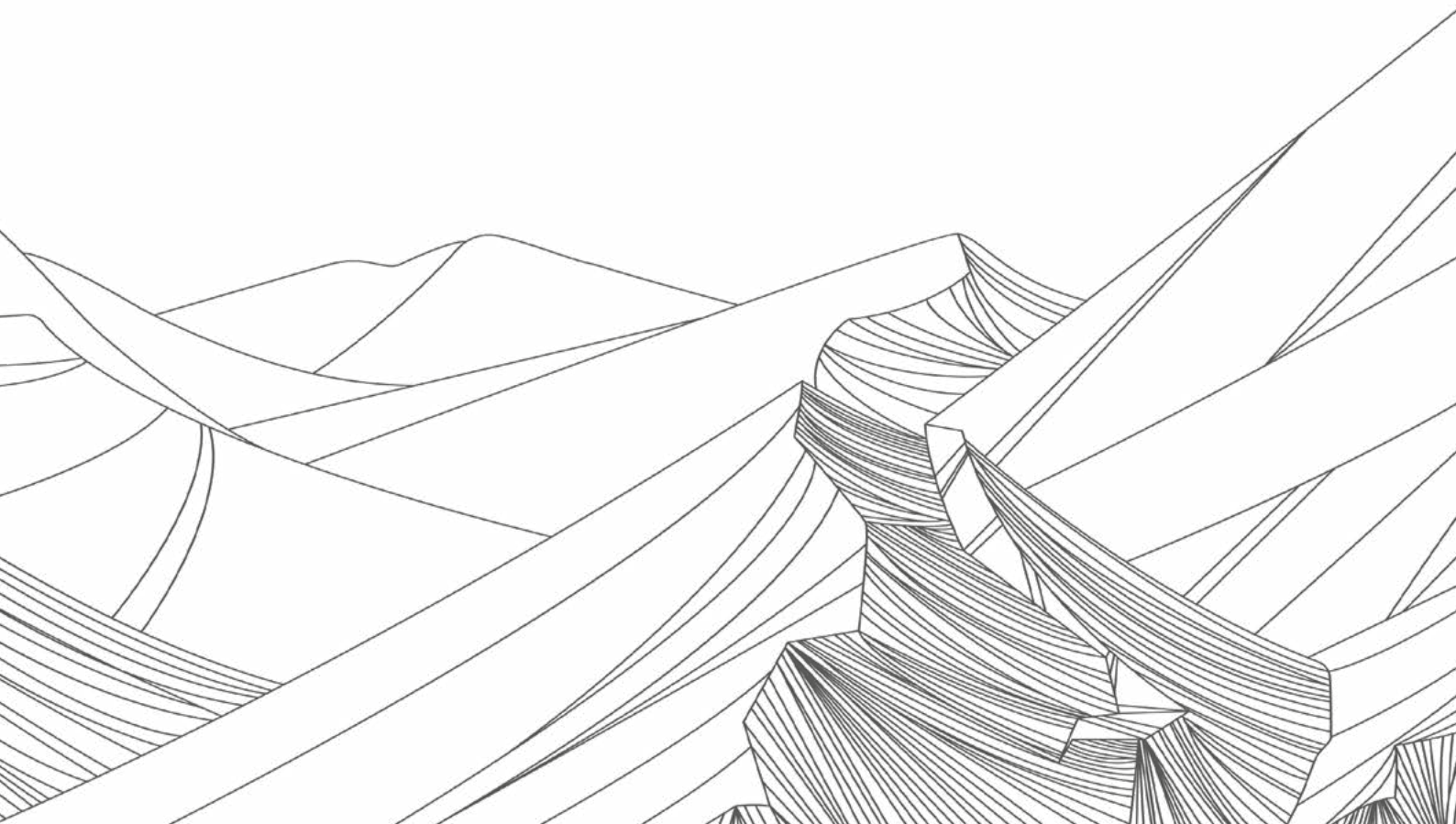
Open up new opportunities with  
DTG printing solutions.



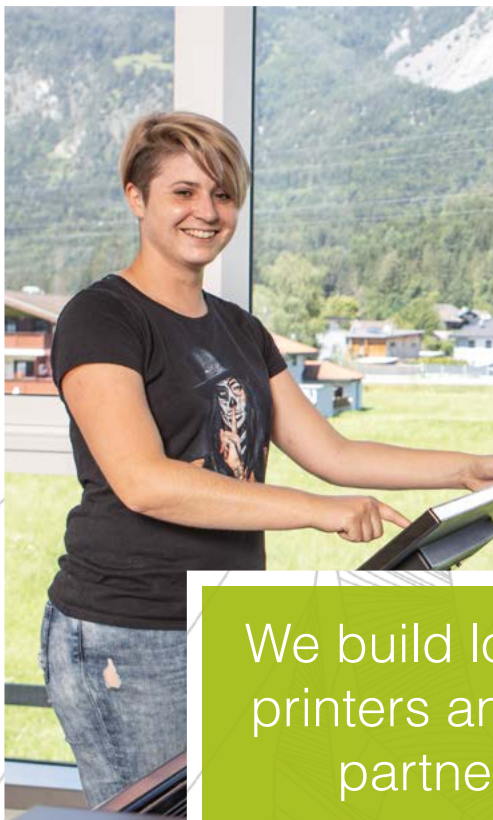
## aeoon DTG printers

**aeoon DTG printers offer superior quality and photorealistic DTG prints at the highest printing speed. We are proud to work with a versatile and efficient team that is flexible and strongly focused on meeting our customer's individual requirements.**

**Our goal is to offer the most innovative machine designs with unmatched durability that enable our customers to produce the best DTG prints available for their customers. Our customers profitability and success are paramount to aeoon.**







We build long-lasting  
printers and life-long  
partnerships!





# aeoon end-to-end DTG solutions

## Outstanding print quality

- Print photorealistic pictures, gradients, thin lines
- Excellent hand feel of the print
- GOTS approved and OEKO-Tex® certified inks and fluids

## Technical & Support

- On-site, remote and digital support
- Minimise operating and maintenance costs
- Prevent faults and system failures

## All-in-one solutions for DTG

- Many years of experience in DTG industry
- Reliable partner and dealer network
- Smart end-to-end solutions for digital textile printing

## Ready to automate

- Integrated OPC-UA and REST interface
- POD-Fulfillment – using any online marketplace platform including Shopify®, WooCommerce, Etsy, Amazon, and more.

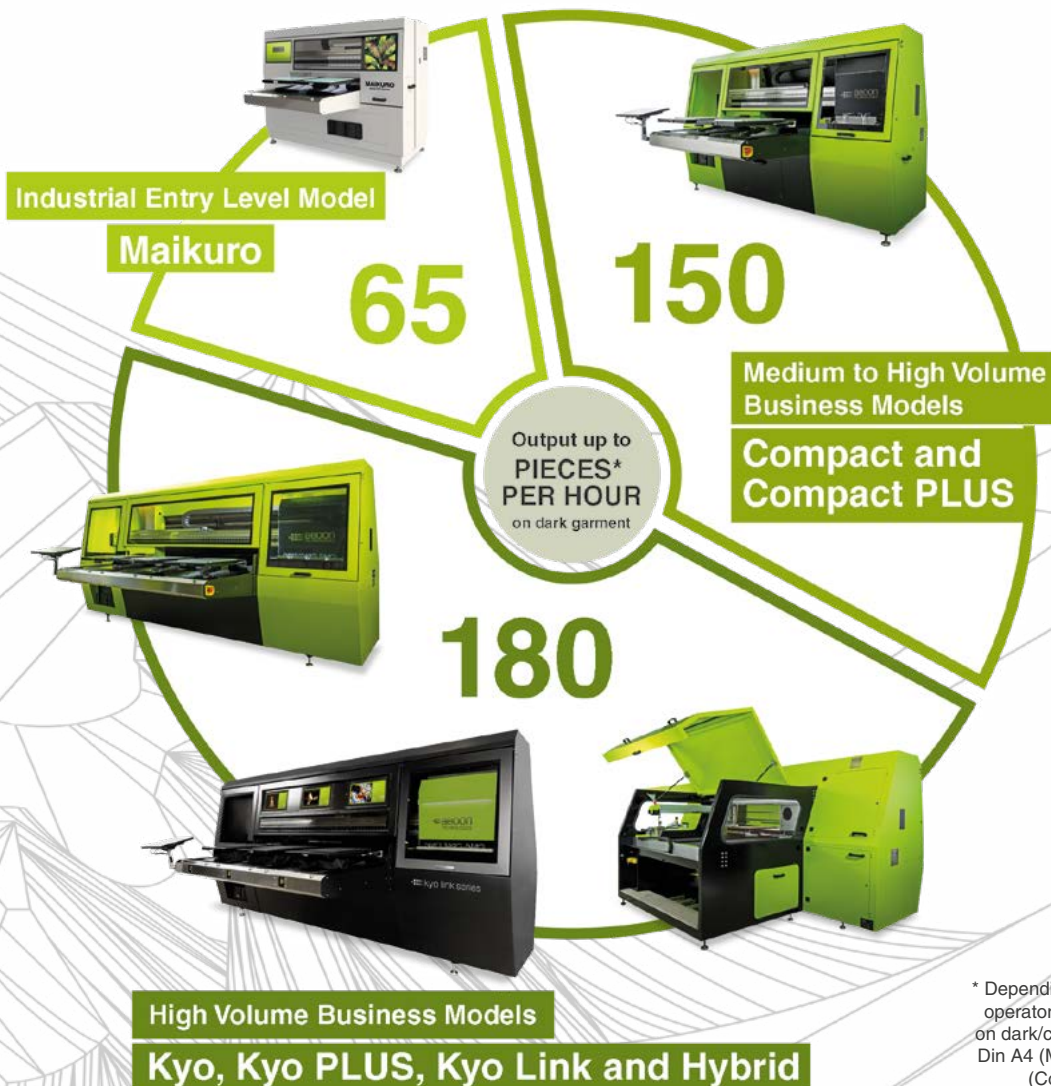
## Offline Pretreatment

- Creating an efficient workflow
- No corrosion and rust inside the printer
- Automatic fluid change

## Made in Austria



- High quality industrial DTG equipment
- Customized solutions
- Local and regional supplier network



\* Depending on the performance of the operator, the material and design and on dark/colored garment. Printing size: Din A4 (Maikuro), 40 x 20 cm / ~16 x 8 in (Compact, Compact PLUS, Kyo, Kyo PLUS, Kyo Link, Hybrid)



## Industrial DTG performance at an affordable price rate

# Maikuro

- **aeoon software** – Specially developed for DTG needs. Our intuitively usable software does not only provide a separate printing queue for each printing station, but also a main queue in which printing jobs can be placed.
- **Recirculation print heads** – Improved print quality, increased reliability with rapid setting ink, such as pigment ink and heightened efficiency. Recirculating print heads eliminate the need for an air compressor.
- **Maikuro RIP basic version** – Color consistency from the creative stage through to production printing. „Brightness” white creation for bright and dynamic colors on dark garments.
- **POD fulfillment – ready to automate:** The Maikuro is easy to integrate into an automated production workflow. No matter how your business grows, aeoon printing systems grow with you.
- **High resilience and durability** – The Maikuro is designed and manufactured with the same commitment to quality and exacting standards that has made aeoon an expert in DTG printing.

## Features that make the difference



Recirculation print heads



Low space requirement



Achieve quality prints easily

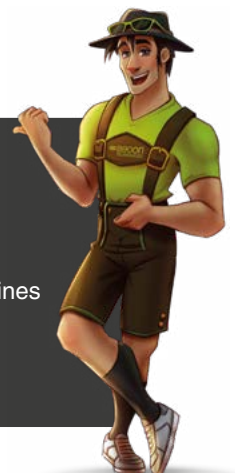
## Ink channel configurations

8 Print Heads C M Y K + W W W W

### aeoon's 360° maintenance and support principle

Our maintenance & support package guarantees long durability of the machines and a consistently high print quality.

Find more on page 42.





**OUTPUT<sup>1</sup>**  
Maikuro up to

**65**

pieces per hour  
on dark garment



This product meets the high quality standard of aeon Technologies.

## Technical Details:

<b>Industrial Print Heads</b> 1280 nozzles per pcs	8 Ricoh Gen5
<b>Print Head Recirculation</b>	Integrated
<b>Print Tables</b>	2
<b>Dimension (w x d x h)</b>	220 x 170 x 170 cm / ~87 x 67 x 67 in
<b>Weight</b>	1000 kg / 2205 lb
<b>Max. Printing Size</b>	with 2 print stations – 40 x 45 cm; ~16 x 18 in
<b>Printable Materials</b>	Cotton, mixed fibers
<b>Printing Resolution</b>	600 dpi resolution
<b>Operating System</b>	Linux OS
<b>RIP Software</b>	Maikuro RIP Basic Version
<b>Interface</b>	OPC-UA and REST interface
<b>Crash Prevention</b>	Integrated
<b>Ink Types &amp; Volume</b>	Water based pigment ink, 10l Container for each color
<b>Environmental Conditions</b>	Temperature 22 - 24 °C; Humidity 50 - 80 % non-condensing
<b>Electrical Supply</b>	1 x 230/110 V + N + PE – max. power input: 3kVA
<b>Compressed Air Supply</b>	not needed

<sup>1</sup> Depending on the performance of the operator, on the material and design and on dark/coloured garment. Printing size: Din A4



For versatile digital printing production

# Compact Series

- **A true allrounder** – The Compact is characterised by its convenient size, an integrated ink shaker, a humidifier system and a pallet size of up to 120x80 cm.
- **aeoon software** – Our intuitively usable software does not only provide a separate printing queue for each printing station, but also a main queue in which printing jobs can be placed – this has proven itself to be extremely efficient for mass production.
- **POD fulfillment – ready to automate** – Our Compact model can easily be integrated into an automated production workflow. No matter how or to what size your business grows, aeoon equipment grows with you.
- **PLUS highlight: integrated heat press** – Garments can be pressed directly in the machine. This saves an external heat press, additional work steps and potentially even one workforce. For the first time, textiles can be pressed before, during and after printing, which enhances the durability and washability of the print. PLUS: There are no press marks!

## Features that make the difference



Intuitive operating system



High quality processing



Integrated heat press

## Ink channel configurations

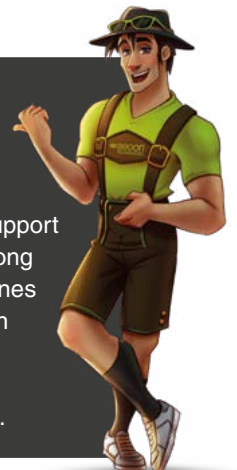
4 Print Heads	C M Y K
	C M Y K + K Y M C
8 Print Heads	C M Y K + W W W W
	C M Y K + S S + W W

\*) S means Gamut Expansion Colors (GECs) like red, orange, green – depending on the ink set.

## aeoon's 360° maintenance & support principle

Our maintenance & support package guarantees long durability of the machines and a consistently high print quality.

Find more on page 42.





**OUTPUT<sup>1</sup>**  
Compact 8/2 up to

**150**

pieces per hour  
on dark garment



This product meets the high quality standard of aeoon Technologies.

## Technical Details:

	Compact		Compact PLUS
<b>Industrial Print Heads</b> 2656 nozzles per pcs	4 Kyocera KJ4B	8 Kyocera KJ4B	8 Kyocera KJ4B
<b>Print Tables</b>	2		2
<b>AHP - Heat Press</b>	-		Integrated for each printqueue; 40x50 cm; ~ 16x20 in
<b>Dimension (wxdxh)</b>	320x244x180 cm / ~126x96x71 in		320x310x190 cm / ~126x122x75 in
<b>Weight</b>	1500 kg / 3307 lb		1900 kg / 4189 lb
<b>Max. Printing Size</b>	Framed: with 2 print stations – 40x50 cm; ~16x20 in Frameless: with 2 print stations – 50x70 cm; ~20x28 in Frameless: with 1 print station – 120x80 cm; ~47x31 in		
<b>Printable Materials</b>	Cotton, synthetics, mixed fibers, canvas, wood, leather, ...		
<b>Printing Resolution</b>	600 dpi up to 2400 dpi resolution		
<b>Operating System</b>	Linux OS		
<b>RIP Software</b>	aeoon RIP Software		
<b>Interface</b>	OPC-UA and REST interface		
<b>Crash Prevention</b>	Integrated		
<b>Ink Types &amp; Volume</b>	Water based pigment ink, 10l Container for each color		
<b>Environmental Conditions</b>	Temperature 22-24 °C; Humidity 50-80 % non-condensing		
<b>Electrical Supply</b>	3x400/208 V + N + PE, 50/60 Hz (+/- 5%) max. power input: Compact: 6,3kVA; Compact PLUS: 6,3kVA + 4,3kVA		
<b>Compressed Air Supply</b>	7 bar - Quality Class 5 (residual oil: 25 mg/m <sup>3</sup> - residual dust: 40 µm/10 mg/m <sup>3</sup> - residual water + 7 DTP/7.8 gm/m <sup>3</sup> ) (max. air consumption: 500l/min)		

<sup>1</sup> Depending on the performance of the operator, on the material and design and on dark/coloured garment. Printing size: 40x20 cm / ~16x8 in



## High-performance industrial DTG printing

# Kyo Series

- **Highest flexibility and adaptability** – The Kyo is one of the most flexible and adaptable DTG printers on the market right now. That is because the whole developmental and production process happens in-house at the aeoon headquarters.
- **Up to 12 industrial print heads** – The Kyo can be equipped with up to 12 print heads, which allows the use of additional process colors to achieve higher color accuracy.
- **POD fulfillment – ready to automate:** The Kyo Series is easy to integrate into an automated production workflow. No matter how your business grows, aeoon printing systems grow with you.
- **Largest printing size** – Our huge selection of pallets allows you to print on almost any piece of clothing in sizes of up to 200x98 cm.
- **PLUS highlight: integrated heat press** – Garments can be pressed directly in the machine. This saves an external heat press, additional work steps and potentially even one workforce. For the first time, textiles can be pressed before, during and after printing, which enhances the durability and washability of the print. PLUS: There are no press marks!

## Features that make the difference



Intuitive operating system



Widest range of pallets



Integrated heat press

**PLUS**  
Highlight

## Ink channel configurations

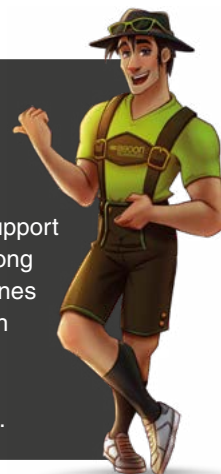
4 Print Heads	C M Y K
8 Print Heads	C M Y K + K Y M C
12 Print Heads	C M Y K + W W W W
	C M Y K + S S + W W
	C M Y K + K Y M C + W W W W
	C M Y K + W W W W + W W W W
	C M Y K + S S + W W W W W W

\*) S means Gamut Expansion Colors (GECs) like red, orange, green – depending on the ink set.

## aeoon's 360° maintenance & support principle

Our maintenance & support package guarantees long durability of the machines and a consistently high print quality.

Find more on page 42.





OUTPUT<sup>1</sup>  
Kyo 12/3 up to

**180**

pieces per hour  
on dark garment



This product meets the high quality  
standard of aeoon Technologies.

## Technical Details:

	Kyo						Kyo PLUS	
Industrial Print Heads 2656 nozzles per pcs	4 Kyocera KJ4B		8 Kyocera KJ4B		12 Kyocera KJ4B		8 Kyocera KJ4B	12 Kyocera KJ4B
Print Tables	2	3	2	3	2	3	3	
XL Version	yes	-	yes	-	yes	-	-	
AHP - Heat Press	-						Integrated for each printqueue; 40x50cm; ~16x20in	
Dimension (w x d x h)	410x290x200 cm / ~161 x 114 x 79in						410x290x200 cm / ~161 x 114 x 79in	
Weight	2000 kg / 4409lb						2450 kg / 5400lb	
Max. Printing Size	Frame: with 2 or 3 print stations – 40x50cm; ~16x20 in Frameless: with 2 or 3 print stations – 60x90cm; ~24 x 35 in Frameless: with 1 print station – 200x98cm; ~79x39in							
Printable Materials	Cotton, synthetics, mixed fibers, canvas, wood, leather, ...							
Printing Resolution	600dpi up to 2400dpi resolution							
Operating System	Linux OS							
RIP Software	aeoon RIP Software							
Interface	OPC-UA and REST interface							
Crash Prevention	Integrated							
Ink Types & Volume	Water based pigment ink, 10l Container for each color							
Environmental Conditions	Temperature 22-24 °C; Humidity 50-80% non-condensing							
Electrical Supply	3x400/208 V + N + PE, 50/60Hz (+/- 5%) max. power input: Kyo: 8,5kVA; Kyo PLUS: 8,5kVA + 6,3kVA							
Compressed Air Supply	7 bar - Quality Class 5 (residual oil: 25mg/m <sup>3</sup> - residual dust: 40µm/10mg/m <sup>3</sup> - residual water + 7DTP/7.8gm/m <sup>3</sup> ) (max. air consumption: 500l/min)							

<sup>1</sup> Depending on the performance of the operator, on the material and design and on dark/coloured garment. Printing size: 40x20 cm / ~16x8 in



## For future-oriented DTG printing

# Kyo Link Series

- **The bigger, the better** – The Link is the largest printer in the aeoon product range and it also has the most features. It is built for high volume production and is a great companion for everybody who lives by the motto “Go big or go home”.
- **High production volume** – With a Link, customers can reach an output of 180 pieces per hour on dark garments.
- **Beamer system** – The integrated beamer system is a useful tool which helps in positioning designs more accurately on the garment.
- **Integrated heat press** – Garments can be pressed directly in the machine. This saves an external heat press, additional work steps and potentially even one workforce. For the first time, textiles can be pressed before, during and after printing, which enhances the durability and washability of the print. This fantastic feature also prevents press marks.
- **POD fulfillment – ready to automate** – The Link was built to create the perfect automated workflow. With its beamer system, the built-in scanners and its entire structure, it will help you create the most efficient automated production workflow possible.

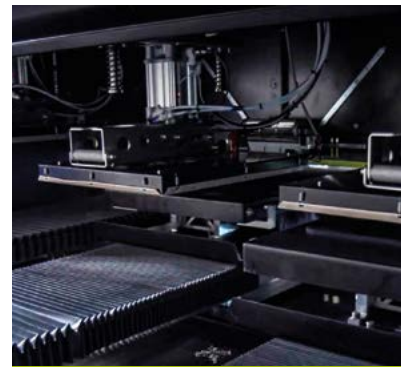
## Features that make the difference



Integrated beamer system



Integrated scanner



Integrated heat press

## Ink channel configurations

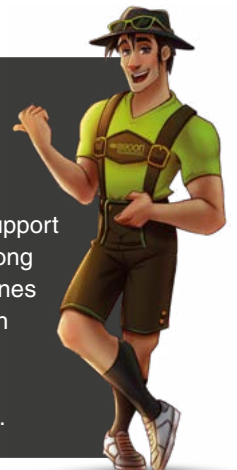
8 Print Heads	C M Y K + K Y M C
	C M Y K + W W W W
	C M Y K + S S + W W
12 Print Heads	C M Y K + K Y M C + W W W W
	C M Y K + W W W W + W W W W
	C M Y K + S S + W W W W W W

\*) S means Gamut Expansion Colors (GECs) like red, orange, green – depending on the ink set.

### aeoon's 360° maintenance & support principle

Our maintenance & support package guarantees long durability of the machines and a consistently high print quality.

Find more on page 42.





**OUTPUT<sup>1</sup>**  
Kyo Link 12/3 up to

**180**

pieces per hour  
on dark garment



This product meets the high quality standard of aeoon Technologies.

## Technical Details:

	Kyo LINK	
<b>Industrial Print Heads</b> 2656 nozzles per pcs	8 Kyocera KJ4B	12 Kyocera KJ4B
<b>Print Tables</b>	3	3
<b>AHP - Heat Press</b>	Integrated for each printqueue; 40x50 cm; ~ 16x20 in	
<b>Beamer System</b>	Integrated – for high precision positioning	
<b>Scanner</b>	Integrated – for each printqueue	
<b>Information Display</b>	Integrated – for each printqueue	
<b>Dimension (w x d x h)</b>	410x290x260 cm / ~161 x 114 x 102 in	
<b>Weight</b>	2450 kg / 5400 lb	
<b>Max. Printing Size</b>	Framed: with 3 print stations – 40x50 cm; ~16x20 in Frameless: with 3 print stations – 60x90 cm; ~24x35 in Frameless: with 1 print station – 200x98cm; ~79x39 in	
<b>Printable Materials</b>	Cotton, synthetics, mixed fibers, canvas, wood, leather, ...	
<b>Printing Resolution</b>	600 dpi up to 2400 dpi resolution	
<b>Operating System</b>	Linux OS	
<b>RIP Software</b>	aeoon RIP Software	
<b>Interface</b>	OPC-UA and REST interface	
<b>Crash Prevention</b>	Integrated	
<b>Ink Types &amp; Volume</b>	Water based pigment ink, 10l Container for each color	
<b>Environmental Conditions</b>	Temperature 22 - 24 °C; Humidity 50 - 80 % non-condensing	
<b>Electrical Supply</b>	3x 400/208 V + N + PE, 50/60 Hz (+/- 5 %) max. power input: 8,5 kVA + 6,3 kVA	
<b>Compressed Air Supply</b>	7 bar - Quality Class 5 (residual oil: 25 mg/m <sup>3</sup> - residual dust: 40 µm / 10 mg/m <sup>3</sup> - residual water + 7 DTP / 7.8 gm/m <sup>3</sup> ) (max. air consumption: 500 l/min)	

<sup>1</sup> Depending on the performance of the operator, on the material and design and on dark/coloured garment. Printing size: 40x20 cm / ~16x8 in



For demand-oriented textile printing

# Hybrid Series

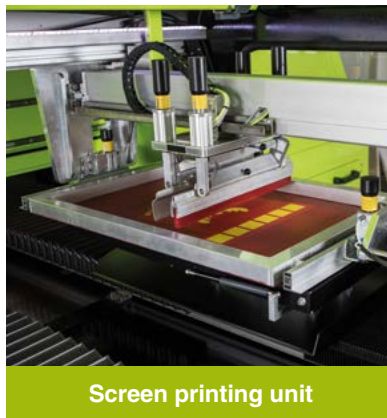


- **Combination is key** – The Hybrid combines the advantages of screen printing and DTG printing in one machine.
- **Printing on complex fabrics** – Customers can print on complex fabrics, with or without pre-treatment. The combination of DTG and screen printing saves white ink, while delivering a premium product.
- **The best of both worlds** – This machine can do both: Individual print jobs and long runs. It offers customers the best of both DTG and screen printing. This Hybrid solution handles registration issues with other Hybrid add on solutions effortlessly before applying the DTG ink.
- **ADT – aeoon Dry Technologies** – you will instantly dry your freshly printed screen design textile friendly by using less energy.
- **KTS – KyoToScreen** – Print directly on the screen! No film needed, saves space – requires only a small dark room, requires only a small UV chamber.
- **Endless possibilities** – There are countless forms of application and special effects that can be used on our Hybrid model to make your designs even more unique and exciting. Some of the possibilities are: Glitter, Foil, Foam, Devoré, Caviar and other applications such as embroidery, stones, Swarovski crystals, transfers, translock, etc.

## Features that make the difference



High performance NIR-Dryer



Screen printing unit



KTS - KyoToScreen pallet

## DTG ink channel configurations

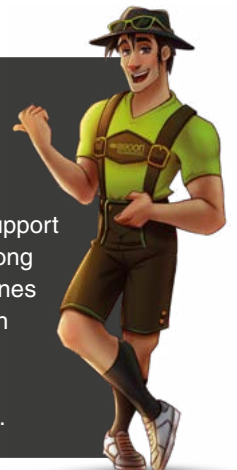
8 Print Heads	C M Y K + K Y M C
	C M Y K + W W W W
	C M Y K + S S + W W
12 Print Heads	C M Y K + K Y M C + W W W W
	C M Y K + W W W W + W W W W
	C M Y K + S S + W W W W W W

\*) S means Gamut Expansion Colors (GECs) like red, orange, green – depending on the ink set.

**aeoon's  
360° maintenance &  
support principle**

Our maintenance & support package guarantees long durability of the machines and a consistently high print quality.

Find more on page 42.





**OUTPUT<sup>1</sup>**  
Hybrid 12/3 up to

**300**

pieces per hour  
on dark garment



This product meets the high quality standard of aeoon Technologies.



## Technical Details:

	Hybrid 3.0	
Industrial Print Heads 2656 nozzles per pcs	8 Kyocera KJ4B	12 Kyocera KJ4B
Print Tables	3	3
Screenprint Unit	Integrated – works only for pallet size 40 x 50 cm; ~ 16 x 20 in	
KTS Pallet	1	
Intermediate Dryer	High performance NIR-Dryer	
Dimension (w x d x h)	410 x 350 x 200 cm / ~ 161 x 138 x 79 in	
Weight	2600 kg / 5732 lb	
Max. Printing Size	Framed: with 3 print stations – 40 x 50 cm; ~ 16 x 20 in Frameless: with 3 print stations – 60 x 90 cm; ~ 24 x 35 in Frameless: with 1 print station – 200 x 98 cm; ~ 79 x 39 in	
Printable Materials	Cotton, synthetics, mixed fibers, canvas, wood, leather, ...	
Printing Resolution	600 dpi up to 2400 dpi resolution	
Operating System	Linux OS	
RIP Software	aeoon RIP Software	
Interface	OPC-UA and REST interface	
Crash Prevention	Integrated	
Ink Types & Volume	Water based pigment ink, 10l Container for each color	
Environmental Conditions	Temperature 22-24 °C; Humidity 50-80% non-condensing	
Electrical Supply	3 x 400/208 V + N + PE, 50/60 Hz (+/- 5%) max. power input: 8,5 kVA	
Compressed Air Supply	7 bar - Quality Class 5 (residual oil: 25 mg/m <sup>3</sup> - residual dust: 40 µm/10 mg/m <sup>3</sup> - residual water + 7 DTP/7.8 gm/m <sup>3</sup> ) (max. air consumption: 500l/min)	

<sup>1</sup> Depending on the performance of the operator, on the material and design and on dark/coloured garment. Printing size: Din A4





**Exceptionally  
long-lasting  
printers that  
produce  
exceptional  
results.**



**Customer: Frank & Söhne AG**

## We are never left out in the cold

**Frank & Söhne AG is a leading specialist printing company in Germany. We offer textile decoration, 3-dimensional technical components, promotional items and similar objects of all shapes and materials.**

In 2014, we decided to purchase an aeoon Kyo8 printer – this step followed an intense comparison aeoon's main competitor. However, in all quality and price-related features, aeoon was able to outperform the competition, in some cases by a considerable margin.

Since then, our machine has been running smoothly and reliably with the exception of a major overhaul in 2022. The overhaul was necessary after more than 8 years of operation without any major maintenance work. Many thanks to the aeoon service team who made the overhaul possible in the first place. We had ourselves certified according to the GOT standard back in 2011. The GOTS-approved inks and additives at aeoon gave us an advantage and make us stand out from the competition.

All in all, we are very satisfied with the aeoon printer and service. We print over 1 million textiles a year, so it goes without saying that sometimes challenges will arise. Having a good support system is essential. aeoon's Support is constantly developing and is able to quickly isolate issues and rectify them. Through remote diagnosis, we can solve smaller problems ourselves under the guidance of the Support team. aeoon offers an "all-round carefree package", so to speak. We are never left out in the cold, which we appreciate a lot. Daily maintenance is very quickly done. The staff has been trained and can easily take care of the machine.

We at Frank & Söhne AG recommend aeoon and its machines and are very happy to be part of the aeoon Family!

[www.frank-druckerei.com](http://www.frank-druckerei.com)



### CUSTOMER DETAILS:

**COMPANY:** Frank & Söhne, Schweinfurt – Germany

**BRANCHES:** Special Printing Shop

**CUSTOMER SINCE:** 2014

**MACHINES:** Kyo Series



**Customer: Ilias Chatzis – KXScreens**

## We keep up to date with every development

**Located in Kalochori, Greece, KXScreen started off as a screenprinting business and later on also expanded to roll-to-roll printing. Since 2016 we are printing digitally on black and white garments with an aeoon Compact printer.**

Mostly, we print on cotton, linen, viscose, modal, papers for decoupage, wood and polyester. We decided to purchase an aeoon printer after thorough investigation and consideration of all our options and were expecting a lot, when we finally decided for a model. And we can really say that our expectations have not been let down. We are very pleased with the flexibility, reliability and overall quality of the printer. Additionally, the print quality is excellent and the maintenance is very easy to do. However, it is not only the machine itself that we are pleased with – with aeoon, we have found ourselves in experienced and dedicated hands from the start. We are very happy with the friendly and efficient support we have been receiving throughout the years. All of those factors have lead up to a point where we are planning on purchasing yet another – bigger – aeoon printer soon.

[www.kxscreens.gr](http://www.kxscreens.gr)



### CUSTOMER DETAILS:

**COMPANY:** KXScreens, Kalochori – Greece

**BRANCHES:** Screen Printer, POD Fulfillment

**CUSTOMER SINCE:** 2016

**MACHINES:** Compact Series





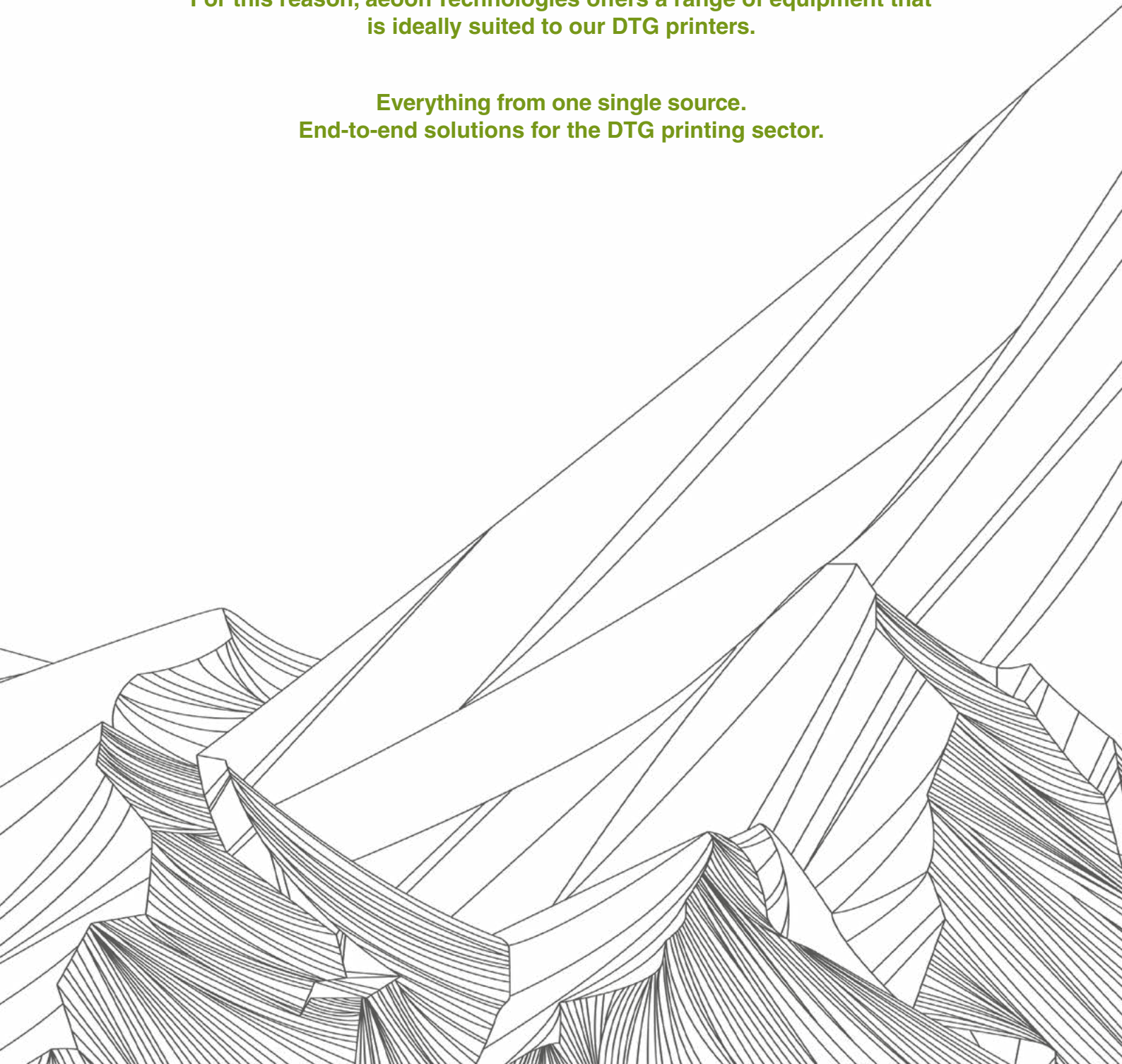
Unrivalled speed, reliability  
and quality. The best industrial  
DTG printing solution.



## aeoon DTG equipment

**For smooth operation and to achieve the highest possible output and print quality, it is crucial that the peripherals are ideally coordinated. For this reason, aeoon Technologies offers a range of equipment that is ideally suited to our DTG printers.**

**Everything from one single source.  
End-to-end solutions for the DTG printing sector.**





For industrial high volume production

# PTB Series

- **Pretreatment area** – You can individually choose nozzles and set the exact size of the area you want to pretreat. A laser system will automatically detect the correct spraying area on the garment.
- **Easy to use** – An integrated touchscreen and other helpful features makes operation easier, for example the automatic fluid change or the integrated cleaning system.
- **Self-cleaning system** – The self cleaning function helps prevent sedimentation. When the machine is not in use, the integrated capping station cleans the nozzles automatically.
- **Ready to automate** – The integrated OPC-UA and REST interface enables easy integration of the PTB series into an automated production process.

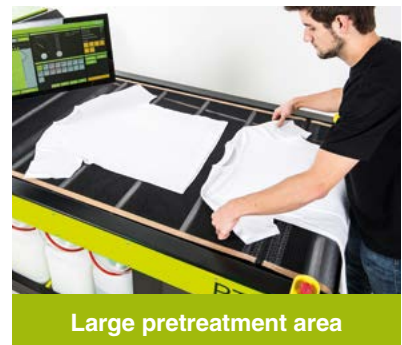
## Features that make the difference



Intuitive software handling



Spray from 1 to 13 nozzles

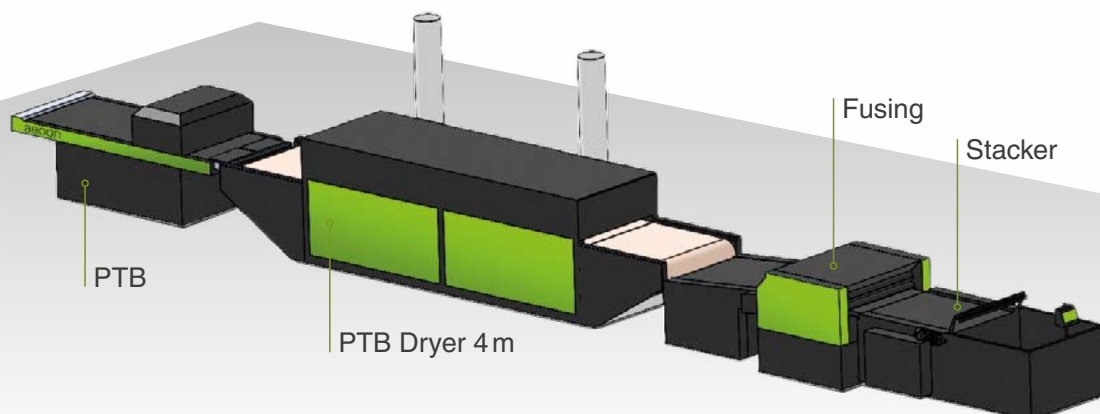


Large pretreatment area

## PTB Line Up

### Increasing efficiency in DTG production

Our PTB Line Up is the ideal combination of pretreatment, drying, fusing and stacking. It gives you the opportunity to build an efficient production workflow, increase output and higher quality. Choose the competitive advantage that will give you a big head start over your competitors who are less willing to innovate.





OUTPUT<sup>1</sup>  
up to

**500**

garments  
per hour



This product meets the high quality standard of aeoon Technologies.

## Technical Details:

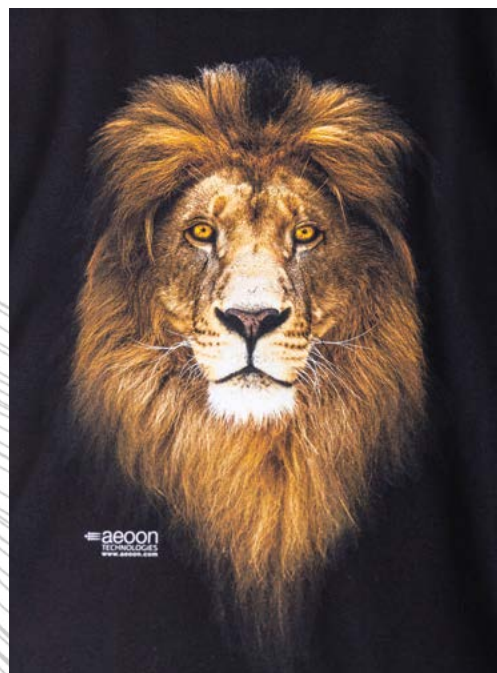
<b>Number of Tank Connections</b>	3 x Pretreatment, 1 x Cleaning Fluid, 1 x dest. Water
<b>Belt</b>	1 m width and 3 m length
<b>Number of Nozzles</b>	13
<b>Self-Cleaning System</b>	Integrated
<b>Interface</b>	OPC-UA and REST interface
<b>Dimension (w x d x h)</b>	300 x 120 x 140 cm / ~118 x 47 x 55 in
<b>Weight</b>	250 kg / 551 lb
<b>Maximum Air Consumption</b>	500 l/min
<b>Electrical Supply</b>	1 x 220/240 V + N + PE, 16 A,
<b>Frequency</b>	50/60 Hz (+/- 5%)
<b>Maximum Power Consumption</b>	0.9 kVA

<sup>1</sup> Depending on the length of the dryer.





Perfecting  
every DTG detail  
– from process  
to print.



# External Pretreatment

6 reasons why it's the most efficient way to pretreat

One PTB machine can cater to multiple printers. This saves time and allows a more efficient workflow!

**1**

## SPEED

Pretreating garments outside of the machine speeds the whole printing process up. One PTB machine can cater to multiple printers. This saves time and makes for a more efficient workflow.

**2**

## PRINT QUALITY

A wet-on-dry print is much more detailed than a wet-on-wet print – pin-sharp, photorealistic images are only possible with external pretreatment.

**3**

## LONG SHELF-LIFE

It is possible to pretreat garments in advance and store them – for a whole year! This is very efficient and improves the workflow even further.

**4**

## MINIMISING FAILURE POINTS

Creating an efficient workflow is all about minimising the chance of errors. This is best done by separating critical processes.

**5**

## CONTROL

With the pretreatment process inside of the printer, there is no possibility to control how much pretreat goes where. An external pretreatment process ensures precision in amount and position of the pretreat.

**6**

## PROTECTION

Spraying pretreat inside of an industrial DTG printer is very damaging to the machine and will lead to corrosion and rust. The white ink reacts with the pretreat in the machine - this chemical reaction can destroy the print heads.



## Incredibly efficient drying systems

# Dryer Series



- **Specification and size** – Dryers can be adjusted to the customer's exact requirements.
- **High specification controller** – Set temperature and actual temperature indicator, belt speed indicator, burner 'ON' indicator, burner 'FAULT' indicator, PLC Mod link – LAN digital coms links via internet.
- **Low running costs** – Due to air circulation through the dryer and the advanced burner system, the Clean Burn technology that is designed into the dryer enables it to operate with very low gas or electricity consumption.
- **Insulated construction** – Dryer is insulated to a very high specification to ensure that the heat stays within the dryer and the outer skin stays cold.
- **Easy belt access** – Dryer hoods lift up for easy access enables inside of dryer to be cleaned and maintained.
- **High drying performance** – The Clean Burn technology dryer provides the ultimate drying performance and will eliminate any current drying issues an operation faces. i.e. scorching, discolouration, washability etc.

### IMPORTANT NOTICE: CLEAN BURN TECHNOLOGY

Uses natural gas or propane gas (small bottles). The gas usage is very small therefore if natural gas supply is not available then small gas propane bottles can be used, i.e. special gas supply is not necessary.



Increase quality and washability in an easy way

# External Heat Press

- **High flexibility** – Many standard and custom plate sizes available; easy exchangeable and rotatable.
- **Easy use system** – Automated temperature control and digital time counter, adjustable distance between table and heating plate.
- **Solid construction** – Heating plate covered with teflon, suitable for professional usage.



No matter if cotton, polyester, long sleeve shirts, hoodies, pants, jeans, ...

# Folding Machines

aeon offers different folding machines. – Depending on the needs of the customer, the machines we offer can fold up to 1000 pieces of clothing an hour. Our folding machines fold clothes precisely and are very reliable and helpful tools for a DTG production line. All the machines we offer have different folding programmes and even a packaging option.



T-Fold



T-Apparel



The right pallet for every print job

# Pallet Range

aeoon Technologies offers the most extensive range and the biggest pallets on the market. We offer standard sizes as well as customized sizes for a wide variety of printing requirements. All pallets can be exchanged fast and easily. Our necklabel pallets and our big pallet sizes with up to 200x98 cm offer big advantages for our customers.



From standard pallets to special pallets



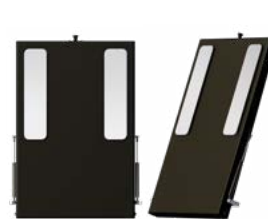
Standard pallets



Neck Label pallets



Hoodie pallets



Double Sleeve pallets



Bag pallets



Tag pallets



Polo pallets



Frameless pallets

**A great solution for the wet-on-dry printing process**

# Ready 2 Print Shirts

As the DTG market continues to evolve, it is only natural that substrates and garments also go through certain changes over the years. One of these changes are Ready-to-print garments. These textiles are already perfectly pretreated and immediately ready to use. This is of course a great advantage for businesses that would rather not pretreat their garments in-house and it also saves time and space.

aeoon's wet-on-dry printing system allows you to use Ready-To-Print garments and benefit from all the advantages that these textiles bring to the table. Naturally, it is not possible for printers with internal pretreating systems to use R2P garments.

**aeoon's unmatched print quality and high output, combined with the benefits of Ready-to-print garments are a great package that will help your business on its way to success.**

## **Print without the need to pretreat inhouse.**

- **Perfectly pretreated textiles for wet-on-dry production**
- **Cost and time reduction through increased efficiency and production**
- **Optimal utilization of aeoon Technologies printing capacities**
- **The entire garment surface can be printed on**





High standards concerning sustainability

# Sustainable inks for our future

aeoon inks are GOTS approved and OEKO-TEX® certified. But hang on... what does that even mean? For a product to be "GOTS or OEKO-TEX® certified", all companies involved have to have passed strict inspections – and yes, aeoon inks and fluids have passed these inspections and therefore they are ECO-PASSPORT certified. So, if you want to offer your customers certified clothing, you can use aeoon inks to print on your products without any worries.



## GOTS

GOTS is a leading international set of rules for the production and trade of natural textiles. This set of rules does not only cover ecological criteria but social criteria in the production of products as well – this includes the payment of the minimum wage, trade unions, safe working conditions and a ban on child labour.



## OEKO-TEX®

OEKO-TEX® enables consumers and companies to make responsible decisions which protect our planet for future generations. The testing and certification process on which our standards are based guarantees maximum consumer safety.



100% Cotton



Canvas



100 % Cotton black

Vivid colors, high lightfastness and washing resistance

# High-quality water-based Pigment Inks

Nowadays more than ever, DTG printing businesses are going eco-friendly as customers are becoming more conscious about where their product is coming from and how it's made. Water based ink, which is made by suspending a biodegradable pigment into a water base, is gaining popularity within the DTG printing industry due to its combination of quality, affordability, and eco-friendliness.

aeon Technologies is dedicated to protecting and conserving our natural environment and therefore uses 100% waterbased ink. Our Innovation Center has been continuously testing print parameters and improving the print quality on a huge variety of garments. Additionally, our team has been focusing on reducing the amount of ink being used while maintaining an outstanding print quality, which has a significant ecological and economic impact for our customers and the print industry.



Expanded color range for limitless creativity

## Gamut Expansion Colors (GEC)

For DTG printers using only CMYK colors, it is not possible in some cases to recreate the vibrancy and brightness of an RGB picture in a print. That is because the colors required are simply „out of gamut“ – they are not in the CMYK color range. With GEC by aeon, it is finally no longer necessary to compensate that loss or try to balance it out with tweaks!

### Benefits:

- Larger color gamut and improved transitions between colors
- Pantone colors are easier and more accurate to achieve
- Improved color brilliance
- The printed result is closer to the original RGB design







**To build the best,  
we partner with  
the best.**

**That's why you  
should partner  
with us.**



aeoon Partner: Xpres

# Teaming up for success

Xpres was founded in 1980 and is now one of the leading suppliers in the UK for a wide range of solutions for textile personalisation and garment branding, including DTG, DTF, HTV and sublimation technologies.

In June 2022, aeoon appointed Xpres as their exclusive UK partner, supplying their full range of automation capable, industrial DTG printers and pre-treatment units for a diverse range of customers in the digital textile printing market.

We love the diversity of outputs available when using aeoon machines. You can produce a huge range of products with pallets that can produce children's tees right up to 2x1m pieces of fabric. The modular aspect of aeoon products also allows for future hardware upgrades along with regular software updates whenever new features or solutions are developed. We were astounded by the quality of the print results, with an amazing amount of detail evident. When you combine this with the incredible speed that aeoon printers are able to operate at, the cost-effective DTG solutions on offer are second to none. The specifications of aeoon components are superior to anything else in the market, helping to deliver outstanding results. This helps back up the quality look and feel of the engineering that goes into aeoon machines. They function just as well as they look, if not better!

The customer focused feel of the business is apparent from the outset, as is the passion they have for their products and the industry at large. When you do business with the aeoon family, you can guarantee the most friendly and down-to-earth service you can imagine while receiving world class products.

Any customers that have seen a demonstration have been blown away by every aspect of what aeoon printers can potentially bring to their business. In particular, the



George Burrows, xpres – Dominik Jung, aeoon Technologies

build and print quality has impressed them, alongside the high speed and low running costs.

We are delighted to be partnered with such a trusted, quality and globally recognised manufacturer. Our confidence couldn't be higher that this is a relationship that will thrive and prove to be incredibly fruitful for both parties.

[www.xpres.co.uk](http://www.xpres.co.uk)



## CUSTOMER DETAILS:

### COMPANY:

Xpres, Derby – United Kingdom

### BRANCHES:

POD Fulfillment, Apparel and Merchandise

### PARTNER SINCE:

2022

### MACHINES:

1 Kyo Link Series, PTB, Dryer







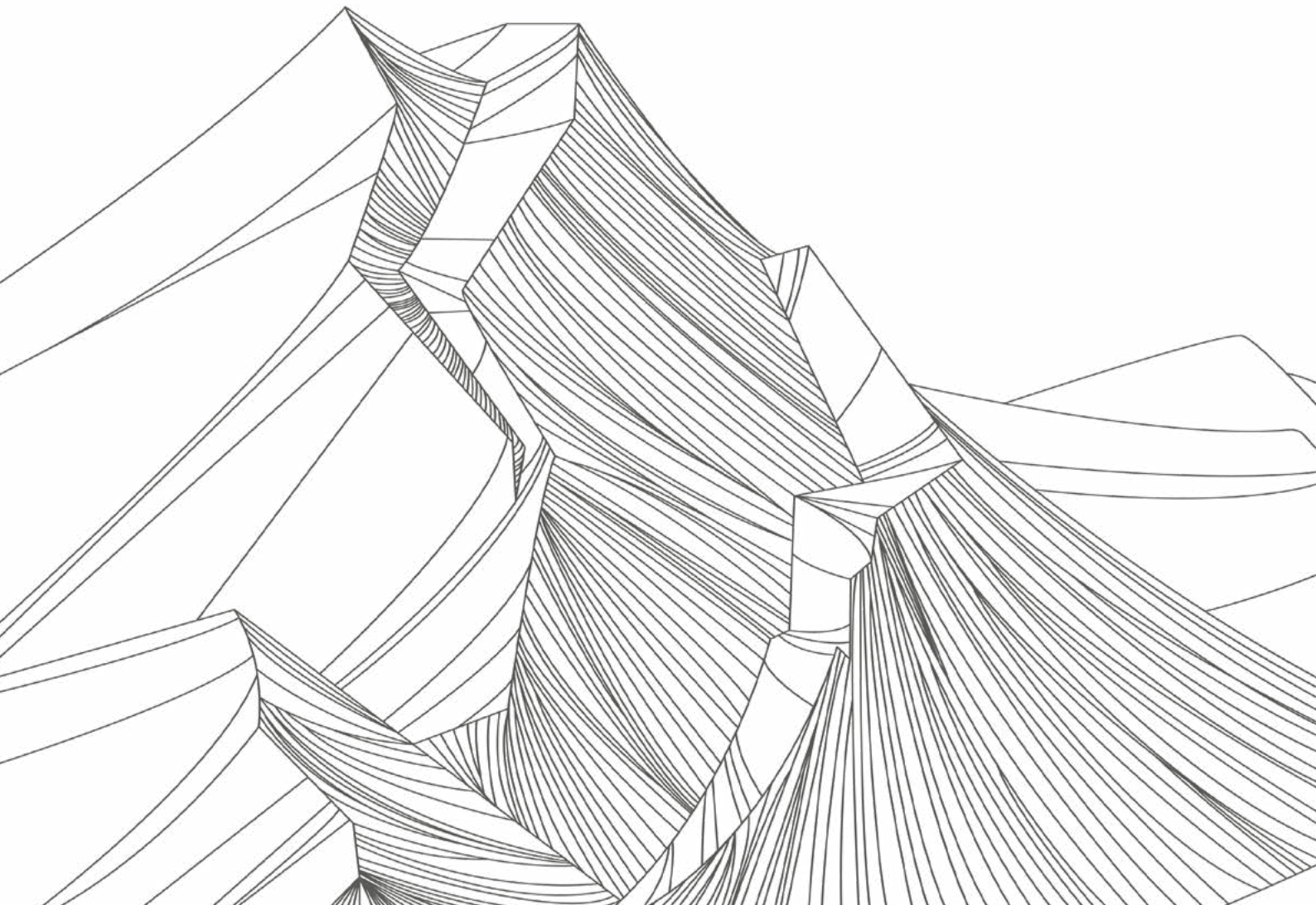
Unlimited possibilities for  
business growth and creativity.



## aeoon DTG solutions

Direct to garment is an evolving market and the learning curve can seem overwhelming at times. With collective internal knowledge and expertise, aeoon Technologies has been building up substantial experience and know how, which is proudly shared with our customers.

Customer satisfaction is our top priority.





# Maintenance & Support for a powerful and reliable performance

With our aeon maintenance and support package, we have found a solution to combine all technical and administrative measures, as well as management measures during the lifespan of an aeon machine. We put our focus on the working order and its restoration. We do everything we can, so you are always able to reach the desired performance and function and prevent failures.

## OUR MEASURES AIM TO:

- Prevent faults and system failures
- Minimise operating and maintenance costs
- Maintain the client's investment in the long term, taking into account the most favourable total costs
- Improve operational safety
- Forward plan costs
- Comply with maintenance cycles

## AND:

- Increase the service life of machines and other equipment
- Optimise in-house processes and operations
- Create a forward-looking cost plan
- Improve the availability

## Benefit from the advantages of the annual maintenance contract



**Fast Response**



**Multi Channel Support**



**Phone Support**



**Online Helpcenter**



**Remote Support**



**InterACTIVE App**



**Onsite Repair**



**Statistic Dashboard**



## With our 360° performance system, we offer you:

- Clearly defined maintenance process due to full-service-management.
- Qualified services in accordance with the respective current standards and regulations.
- Solutions in the course of sustainable production processes.
- Optimised life cycle costs.
- High efficiency and process reliability.



## aeoon offers a high level of quality for the required services, including the documents

Professional performance of all services by certified experts, as well as clear documentation and maintenance of all product-specific data. We guarantee compliance with all necessary testing and maintenance cycles. In addition, we offer an extensive knowledge database (Helpdesk) on all technical information of systems and plants and the InterACTIVE App (Training App), to ensure professional handling of the machines by your employees.

We of course also provide individual checklists for inspection and maintenance, to ensure compliance with the legally prescribed points, which are to be carried out in regular cycles by your employees.



## The four measures of maintenance

1 INSPECTION	2 MAINTENANCE	3 REPAIR	4 ENHANCEMENT
The basis for regular testing is the technical documentation provided by the manufacturer.	The basis for maintenance is the relevant guidelines, standards and laws.	Handling of maintenance measures to prevent uncontrolled system failure and rectification of problems in the event of damage.	By replacing or adding components, an existing system is brought up to the current (safety) technical standard (retrofitting).
GOALS			
Determining and assessing the current status.	Preservation of the target state.	Restoration of the target state or securing the target state in the long term.	Increasing functional safety without changing the required function.
MEASURES			
Check, measure, count, trigger, document, analyse	readjust, clean, replace, release, record	repair, adjust, replace, trigger, log	Planning, preliminary measures, release, implementation, testing, documentation



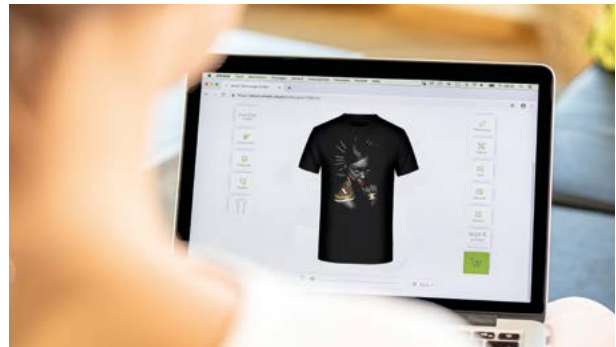


# What is automation?

**There are many methods used to decorate garments. Direct-To-Garment (DTG) printing is just one of them. But DTG has more production flexibility than traditional forms of decoration like screen printing, and if harnessed correctly, DTG printing can become a powerhouse of profitability and growth.**

In a market that is struggling to maintain reasonable profit margins and defend itself from cut-throat competition and declining sales, DTG printing stands out as uniquely capable of creating huge gross profits while at the same time experiencing phenomenal sales growth. Automated production processes are driving this change in the market.

Demand drives creativity, significant demand drives the kind of creativity necessary to transform an industry, and we are experiencing this kind of demand today in the decoration industry. Highly flexible Print-On-Demand (POD) decorated products include all kinds of things. Some are obvious – T-shirts, hoodies, pants, and hats. Some not so obvious because they are not thought of as typical POD products – custom printed towels, custom printed dog collars, customized Christmas ornaments, custom printed laptop covers, and custom printed neck ties. It is fair to say that POD has expanded far beyond typical garment applications.



## How automated DTG printing works

### 1. CREATE A PICK LIST

Orders are automatically recorded. A pick list from all garments of the same color, style and size, regardless of orders is generated.

### 2. PRINT QR STICKER

Print QR code stickers and stick them on the garments. These stickers contain all the order information - including artwork and shipping information.

### 3. DTG PRODUCTION

At each production station (pretreatment, DTG printer, embroidery, ...) scan the sticker and automatically retrieve all relevant information and data for the respective job.



Maintain overview – increase performance – reduce costs

# The process of automation

**Let's agree on one thing to begin with. Automation is not automated if you have to personally handle an order in any way before releasing it into production. In a truly automated system new orders flow into the system from various sites 24 hours a day. If you are “working an order” before releasing it to production then you are not automated, you might be highly organized, but not automated.**

One of the key requirements for an automation system to be productive is combining both software and hardware from the vendor supplying the system. Hardware, or workstations, must be designed and manufactured specifically for the automation process. They must be extremely durable, compact and have touch screen capability.

Keyboards and traditional computers do not work well. These traditional computers are not durable enough and they're clumsy. Computers are difficult to mount in an efficient location for the operator. Size also makes them awkward for the operator. Without a properly designed automation workstation the automation system can actually slow down the operator.

Every production plant is different. The ability to configure the automation system to fit the plant, and the plants clients, is a critical feature of automation. Let's examine three major areas that require flexibility.

Scalability. Want to add an additional printer, shipping station or QC station? A good automation system should allow for scalability when and where the client needs it.

Programmability. Do you need to integrate the automation system with an existing in-house management Information system (MIS)? Does that system already handle some of the processes necessary to automate production? If so, you need an automation system and technical support team that can accommodate your specific challenges.

Order Acquisition Automation. The best automation system in the world is useless if you cannot get the orders into the system automatically. It is impossible to compete and make money if incoming orders require off-line adjustment of some kind. No human intervention allowed, none.

One final point to consider. Does the automation system need to automate additional but different production processes? For example, automated DTG printing and automated embroidery. Does it then need to combine these items after production into one shipment? Look for an automation system that can handle multiple production processes.

## 4. QUALITY CONTROL

An operator scans the label after the garment is printed to check the quality of the print. If not approved, the job will go back into the queue.



## 5. READY FOR SHIPPING

After the garment passes quality control, an operator scans the label to retrieve all shipping information and print the shipping label.







**Digital printing  
automation  
opens up a  
world of  
profitable  
possibilities.**



Customer: Paulius Šulga – UAB Divitus

# High-quality equipment and great support

UAB Divitus was founded in 2014 in Lithuania and specialises in e-commerce and POD. Our company is located in Kaunas city.

A year ago, we finally made the switch from small DTG printers to industrial-level aeon machines and purchased a Kyo and a Compact model. Being part of the aeon Family has helped us a lot, especially during the first period of us working with our aeon printers, as operating such high-level equipment was completely new for us. We are very pleased with aeon's dedicated support team and the way they continue to help us with any issue along the way. We mainly print on hoodies, T-Shirts and sweatshirts, but because aeon machines are so versatile, it is possible for us to print on a vast amount of different garments. Our automated workflow system runs smoothly and we and our customers are very happy with the washing resistance of the prints, the brightness of the colours and the speed of the machines.

We would recommend aeon printing systems to anyone who wants to work on a POD basis but doesn't want a lot of competition. Because we are very pleased with our aeon printers and want to expand our POD sector, we are planning on potentially adding one to two additional Kyos to our machine park in the future.

[www.divitus.lt](http://www.divitus.lt)



Paulius Šulga - CEO of Divitus



## CUSTOMER DETAILS:

**COMPANY:** UAB Divitus, Kaunas – Lithuania

**BRANCHES:** DTG Printer, POD Fulfillment

**CUSTOMER SINCE:** 2022

**MACHINES:** Kyo Series, Compact Series, PTB-Machine, Dryer





# ADI – Consulting, training, education and publications

**DTG is a relatively new printing technique which has opened new possibilities over the last few years that the printing industry has dreamed of for decades.**



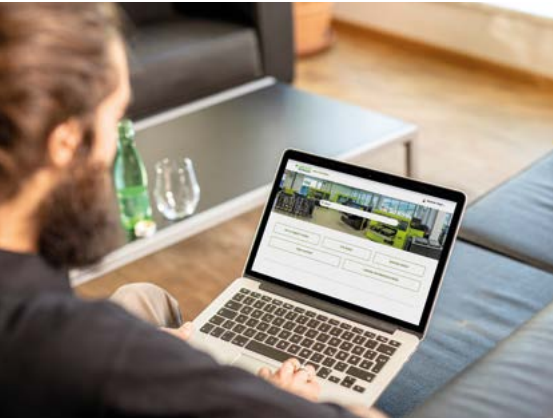
But with all those great opportunities come great challenges: aeoon Technologies has been taking on these challenges for the past 12 years. And we want to pass the knowledge and experience we have gained onto our customers and the world.

The ADI (aeoon digital institute) offers courses and trainings in all aspects of DTG – printing, image editing, technical training and so forth – all taught by experienced and dedicated aeoon printing experts. aeoon wants to build a worldwide network of DTG enthusiasts to share knowledge, experience, and a common optimism for DTG.

**The ADI is the next big step on the way towards that goal.**

## ADI – Highlights

- Training courses in all aspects of DTG (print training, technical training, etc.)
- Modern equipment
- Newly built training space
- Effective teaching system
- Experienced DTG experts
- InterActive Training App
- Online Helpdesk
- Worldwide Network



# Innovation Center – a place for bubbling creativity

**750sqm of space – for presenting high-quality DTG equipment. That in itself is a dream come true, but our Innovation Center offers far more than just a place for presentation!**

The aeoon Innovation Center team is extremely dedicated and has years of practical experience. Their focus is the customer and they have gathered extensive knowledge from on-site experience with customers.

Their two main task fields are presentations, sample printing and support as well as in-house-trainings. However, they are also involved in R&D by developing consumables and machines, workflow improvements and testing new processes. Due to this system, the Innovation Center team has a unique oversight of all the processes and can guide aeoon customers through every phase they go through with their DTG printing business.



## We offer a wide range of services:

### → Trainings

Our dedicated and experienced IC team does comprehensive training courses about everything concerning DTG – starting with basic trainings for beginners up to advanced trainings for experienced operators.

### → Assisting our customers

With all our departments working closely together in the aeoon headquarters, we are in an ideal position to gain experience and knowledge as a team. The IC team works extremely closely with our Support team to help resolve any challenges that may arise for customers – this solutions-oriented method also helps to improve our products long-term.

### → Creating profiles

With the purchase of a machine, each customer receives a suitable set of profiles for their setup. However, there are also specialists in our IC that create customised profiles at the customer's request.

### → Simplifying the print workflow

For our customers, the workflow is one of the most important aspects of their business – that is why our IC specialists are constantly working on making the workflow faster, easier and more cost-efficient, while working on new pre-treatments, inks and software enhancements. Customers additionally receive trainings on how to create and use the perfect workflow for their business.

### → Knowledge

The Innovation Center is not only used to train people but also to gather knowledge and experience – the IC team also helps further develop our machines, inks and cleaners and puts every single component through its paces.

Book your  
livestream  
[sales@aeoon.com](mailto:sales@aeoon.com)







Sustainability & Environmental awareness

# Setting the course for tomorrow today

**From the very beginning of aeoon Technologies, sustainability has been an integral part of our company's philosophy. For us it is a way of life, rather than a concept that we adopted due to it becoming much more prominent in recent years.**

It has been in our DNA from the start. We develop and produce our machines in a stunning and yet vulnerable Austrian environment. The people who work at aeoon have a strong connection and long history living in and protecting the nature around them. This unique perspective reflects in our inherent need to take care of our natural and cultural resources.

With our innovative DTG technology we give our customers the ability to operate efficiently and profitably on a Print-On-Demand (POD) basis. This technology

reduces the consumption of natural resources, energy, transportation and logistic procedures, as well as textile waste, tremendously.

We understand that doing good is not enough – it must be done the right way. With this idea in mind, we have been continuously improving the performance and production methods of our machines. Now, aeoon Technologies sets global benchmarks for durability, energy efficiency, recyclability, and design life for DTG printers.





**Our goal is to offer machines which are more energy efficient, utilizing environmentally friendly parts and consumables**

aeoon Technologies will never compromise on its commitment to sustainability and continue to offer the most eco-friendly solution in the DTG marketplace.

aeoon Technologies offers the lowest VOC and HAP ink solutions and strives to eliminate all VOC impact.

aeoon Technologies works with suppliers and customers who believe in “clean manufacturing” process and adhere to all local municipality requirements.

aeoon Technologies will not sell equipment to customers who purposely damage the environment, violate labor laws or operate in an unsafe manner.

We have been careful to select local suppliers who share our values to ensure every component produced and utilized in our machines meets our sustainability philosophy. The majority of our suppliers are from our nearby vicinity, sharing our ideas and values and at the end reducing transport emissions, which benefits our customers and the environment.

We are proud to be working closely with developers and certifiers on the advancement of our water-based inks, cleaning and pretreatment fluids. Thanks to these efforts we can provide the latest GOTS® approved and OE-KO-TEX® certified inks and liquids, which subsequently facilitates the certification process for our clients.

All our machines are produced in our newly built, energy efficient headquarters in Tyrol. Exceeding the already high environmental and social standards the Austrian government sets, aeoon Technologies is dedicated to further invest in a more sustainable planet for future generations.

Great investments have also been made in our employees, to whom we strive to provide a healthy, well balanced and motivating work environment. Zero discrimination and harassment policies are lived by each of our “family members.” We are an inclusive, equal-opportunity employer who values our most valuable resource – people.



# aeoon distribution network

made in austria – supported worldwide



## Where to find us:

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