

Printing with  
**HEART & SOUL**  
has never been  
so easy



# HY BRID 3.0

aeoon's fusion  
of **Digital &**  
**Screen printing**

Industrial digital textile printing solutions



**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.



aeoon's Hybrid 3.0 combines my experience and expertise in screen printing with DTG printing technology. This machine offers all the advantages of both decoration techniques without abandoning the traditional screen printing process.

**Angelo Schiestl** - Managing Director and Founder of aeoon Technologies

# Hybrid 3.0 – Combination is key

**aeon 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 requirement 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.**

Let your creativity unfold! The aeon Hybrid 3.0 printer combines DTG and screen-printing in one machine. With the whole process in one printer, you get all the advantages of both printing techniques. Print photo-realistic motifs in aeon DTG quality and add special effects like glitter, foil, foam and other applications to give each of your designs a unique touch. With our KyoTo-Screen feature, there is no need for films to prepare the screens. You can simply print the image directly onto the screen. Running a Hybrid 3.0 only requires a small dark room and dryer, as opposed to other screen-printing systems. With an all-in-all time and space-saving workflow, the Hybrid 3.0 is

an ideal addition for any creative printing business that wishes to use both the advantages of DTG and of screenprinting. It is the perfect fusion of two printing techniques which will help your business grow to its fullest potential.

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.





For demand-oriented textile printing

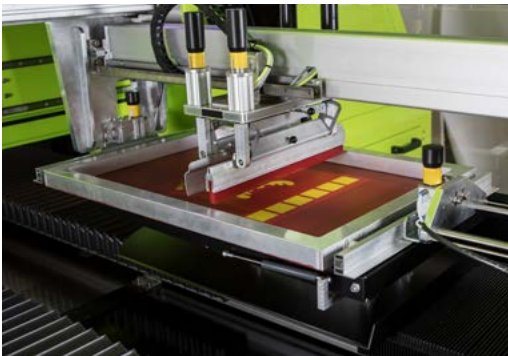
# Hybrid 3.0 Series

**Combination is key** – The Hybrid is a unique printer which provides you with sheer endless possibilities regarding design and applications.



## DTG printing benefits

- Excellent color reproduction
- Easier printing of detailed colors on dark garments
- Vivid designs, colors and exceptional details
- Unlimited number of designs in full color
- Cost savings per print for multicolor designs
- White Highlight Function
- Ideal for single or smaller jobs



## Screen printing benefits

- Printing with highlight colors such as neon, metallic and many more
- Managing different ink densities
- Creating special effects and textures
- Printing on garments that have low cotton content
- Printing without pretreatment
- Cost saving for larger orders
- Preset positioning via the app

## Integrated Screenprint Unit

Perfect suitability for industrial applications!





## 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, transflock, etc.



### Screen preparation

KyoToScreen –  
Print directly on the screen!

- No film needed
- Saves space and requires only a small dark room and a small dryer



### Flexibility

The Hybrid can print with different screen-printing inks:

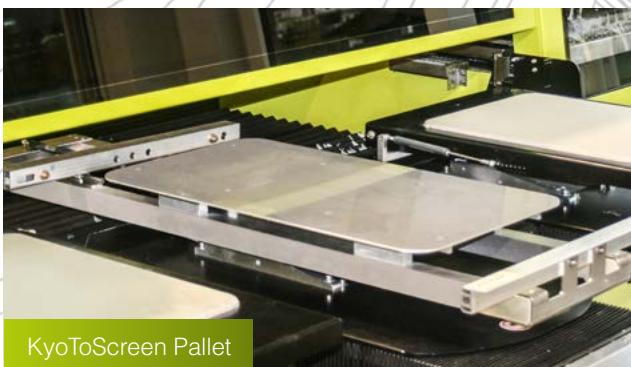
- Water-based inks
- Plastisol based inks
- Discharge-based inks
- Pretreatment-based inks
- DTF



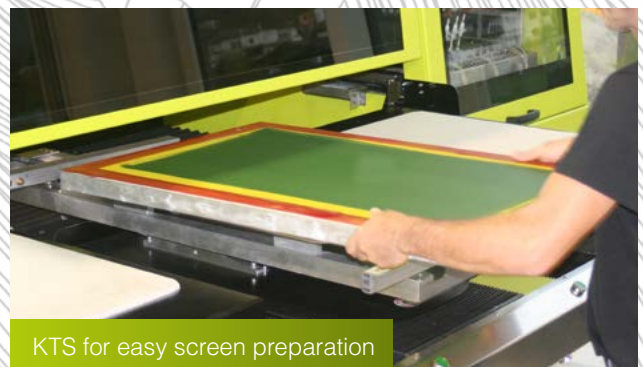
### Output

300 prints/hour  
Depending on:

- The size of the design
- The types of fabrics
- The kind of ink that is used (water-based, plastisol-based, etc.)



KyoToScreen Pallet



KTS for easy screen preparation



Refined design with neon color

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aeoon  
INDUSTRIAL DIGITAL TEXTILE PRINTING SOLUTIONS

Unlimited possibilities  
for business growth  
and creativity.

# Technical Details

<b>Industrial Print Heads</b>	8 or 12 Kyocera KJ4B – 2656 nozzles per pcs
<b>Print Tables</b>	3
<b>Screenprint Unit</b>	Integrated
<b>KTS Pallet</b>	1
<b>Intermediate Dryer</b>	High performance NIR-Dryer
<b>Dimension (w x d x h)</b>	410x350x200 cm / ~161 x 114 x 79 in
<b>Weight</b>	2600 kg / 5732 lb
<b>Max. DTG 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>Max. Screenprint Size</b>	Framed: with 3 print stations – 40x50 cm; ~16x20 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>	aeon 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: 8,5 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: 500l/min)

## DTG ink channel configurations

<b>8 Print Heads</b>	C M Y K + K Y M C
	C M Y K + W W W W
<b>12 Print Heads</b>	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 Colours (GECs) like red, orange, green – depending on the ink set.



This product meets the high quality standard of aeon Technologies.

# aeoon distribution network

made in austria – supported worldwide



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