IQDEMY

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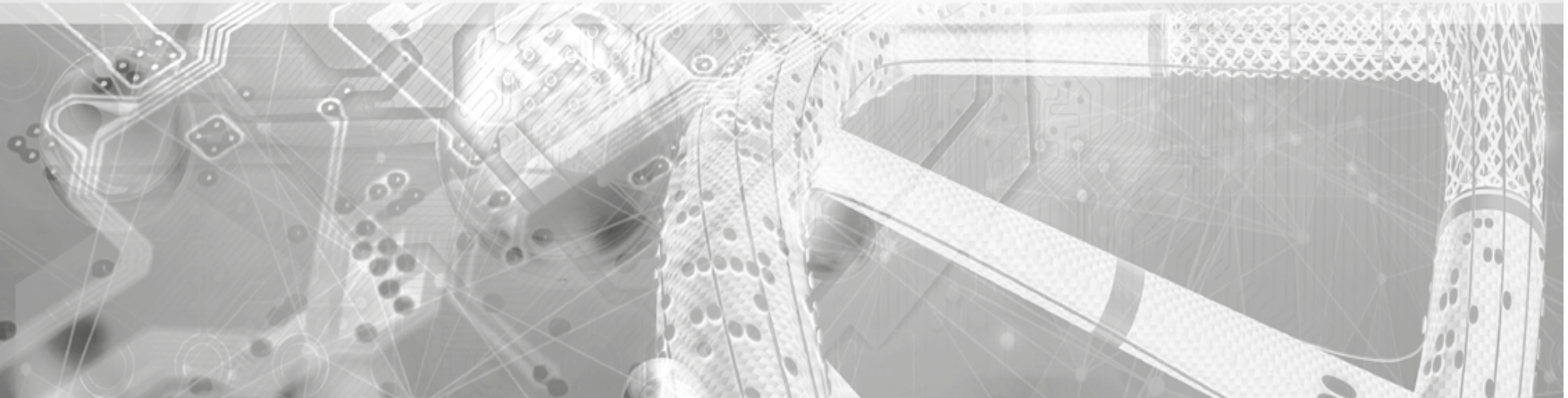
INDUSTRIAL EXCELLENCE
DRIVEN BY INNOVATIONS

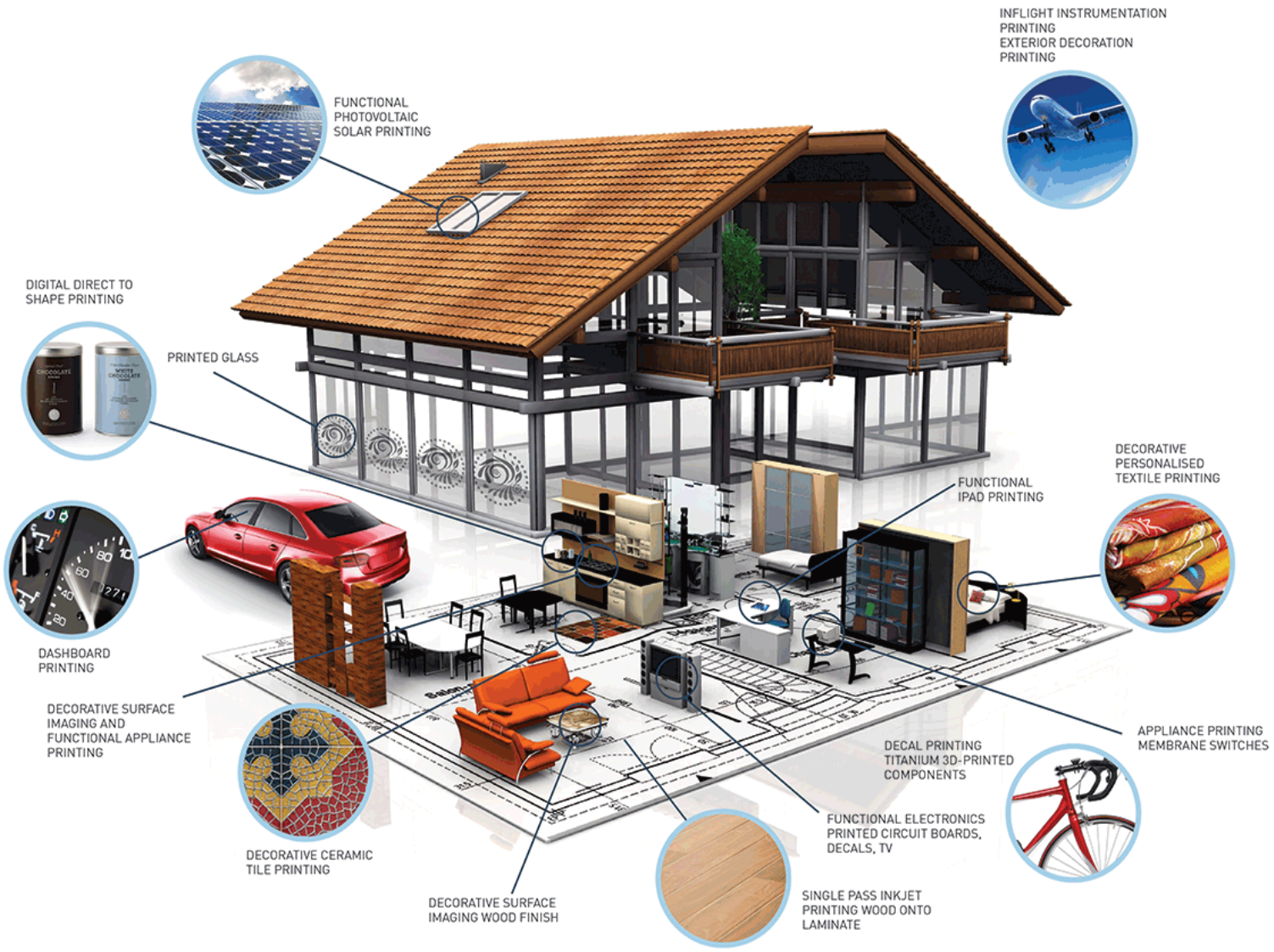


Digital continuous coil printing

Key advantages of inkjet technology:

- Print on any substrate with instant UV-LED curing system;
- Print designs of any complexity, including Variable Data Printing;
- Production cost is reduced several times and does not depend on the volumes.

CYAN **RED** **YELLOW** **BLACK**



INORGANIC INKJET INKS

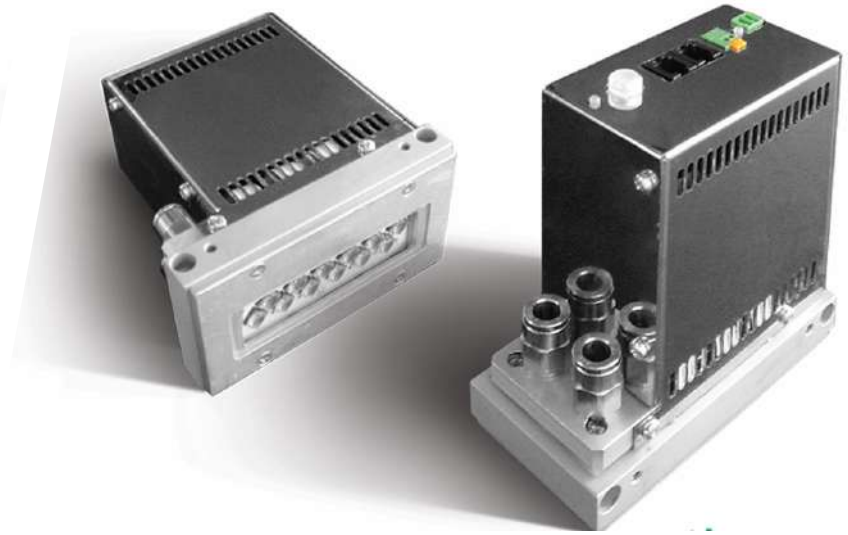
For more 10 years, IQDEMY team develops and produces a wide range of inks, varnishes and coatings for various industries and applications.
All fluids are developed at own research laboratory by IQDEMY chemists and inorganic chemistry experts.
For the Coil Coating and similar applications, IQDEMY Team developed a special UV-curable inorganic ink. After the curing, the printed surface could be used outside up to 50 years.

- UV-LED cured inorganic inks
- UV-LED cured flexible inks
- Water-based inks
- Primers for glass, metals and PVC
- Conductive inks
- Ceramic inks

UV-LED CURING SYSTEMS

Our development team was the first in the world to introduce commercially efficient UV-LED ink curing technology in 2006. Since that time we have been supplying UV -LED curing units to OEM printer manufacturers around the world.

The UV-LED units are designed for industrial usage with high UV optical power at long distance (40 mm and more) and long service life (60,000+ hours) ensured by high-quality LEDs and innovative control system. DPS Innovations provides a 5-year warranty for all UV-LED curing systems*.



DPS Digital Printing Systems Innovations

INDUSTRIAL PRINTING EQUIPMENT

Since 2004 we have been producing reliable industrial printing equipment for various applications.
More than 1000 printers have been installed worldwide.

Image belongs to Marcegaglia Steel.
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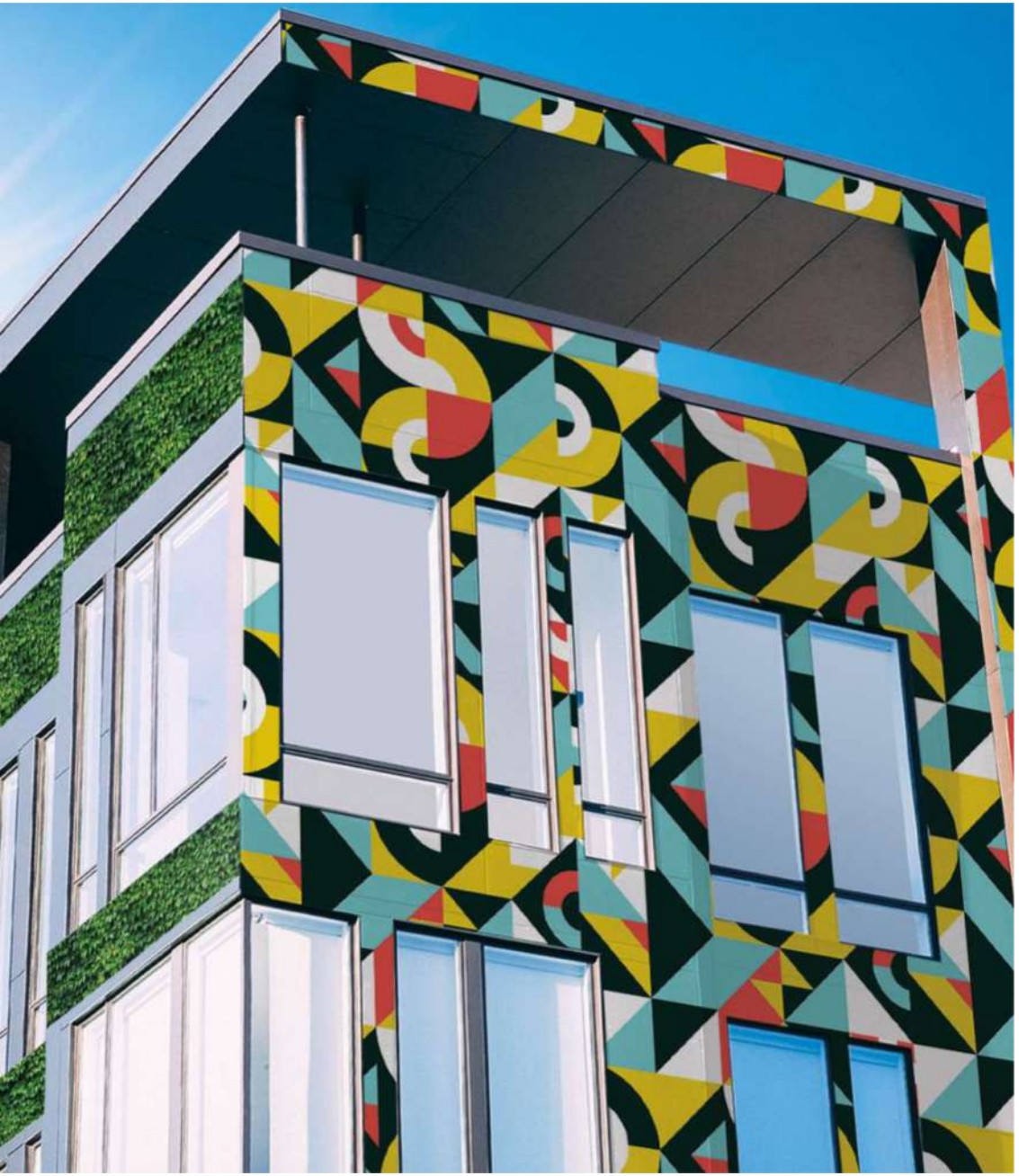
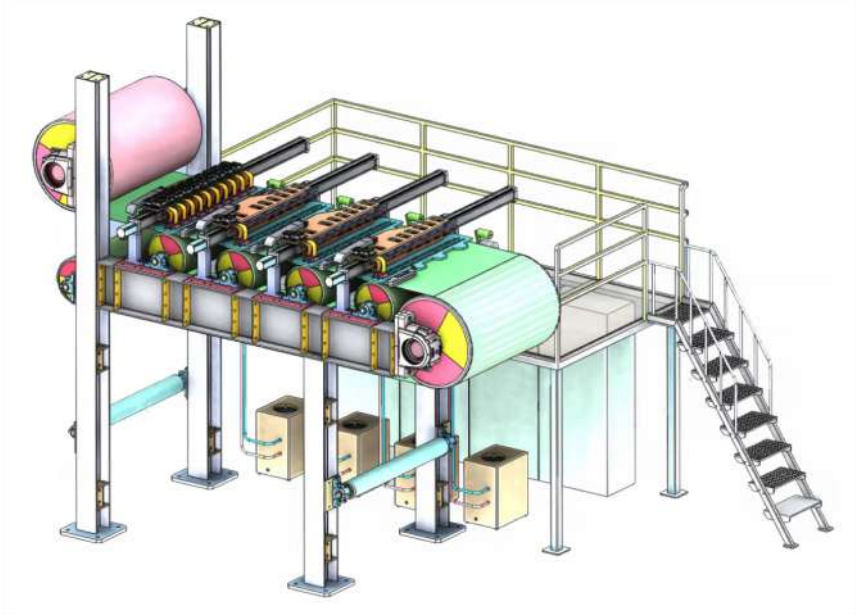


Inkjet single-pass unit in details

- The printer - is a set of several functional modules designed to ensure the application of UV inorganic ink with intermediate and final curing on an absolutely dry, prepared surface.
- Interface to external systems and user interface to provide the necessary functionality for equipment integration and configuration.
- Contactless ink application from the distance 1-2mm.
- Instant and cool ink curing with the UV-LED curing system, which has adjustable power depending on the material moving speed from 10 to 100%.
- The body of the modules is made of industrial grade stainless steel, using special welding technology and a set of special filters, with IP65 protection.

Printing width	400mm – 2000mm
Printing resolution	400dpi / 600dpi / 1200dpi
Color scheme	CRYK + W + Spot
Material type	Aluminium, steel
Material thickness	0.1mm – 4mm
Print linear speed	Up to 100 m/min
Distance to the material	1mm – 2mm
Ink type	UV-curable inorganic
Curing / drying system	UV-LED
Software	IQDEMY Graphical User Interface + RIP software.

Digital printing VS conventional painting



Advantages of digital printing:

Cost reduction – ink consumption is 10+ times less than paint;

Cost reduction – instant UV-LED curing instead of oven;

Cost reduction – No water, no solvent, no paint recycling is required;

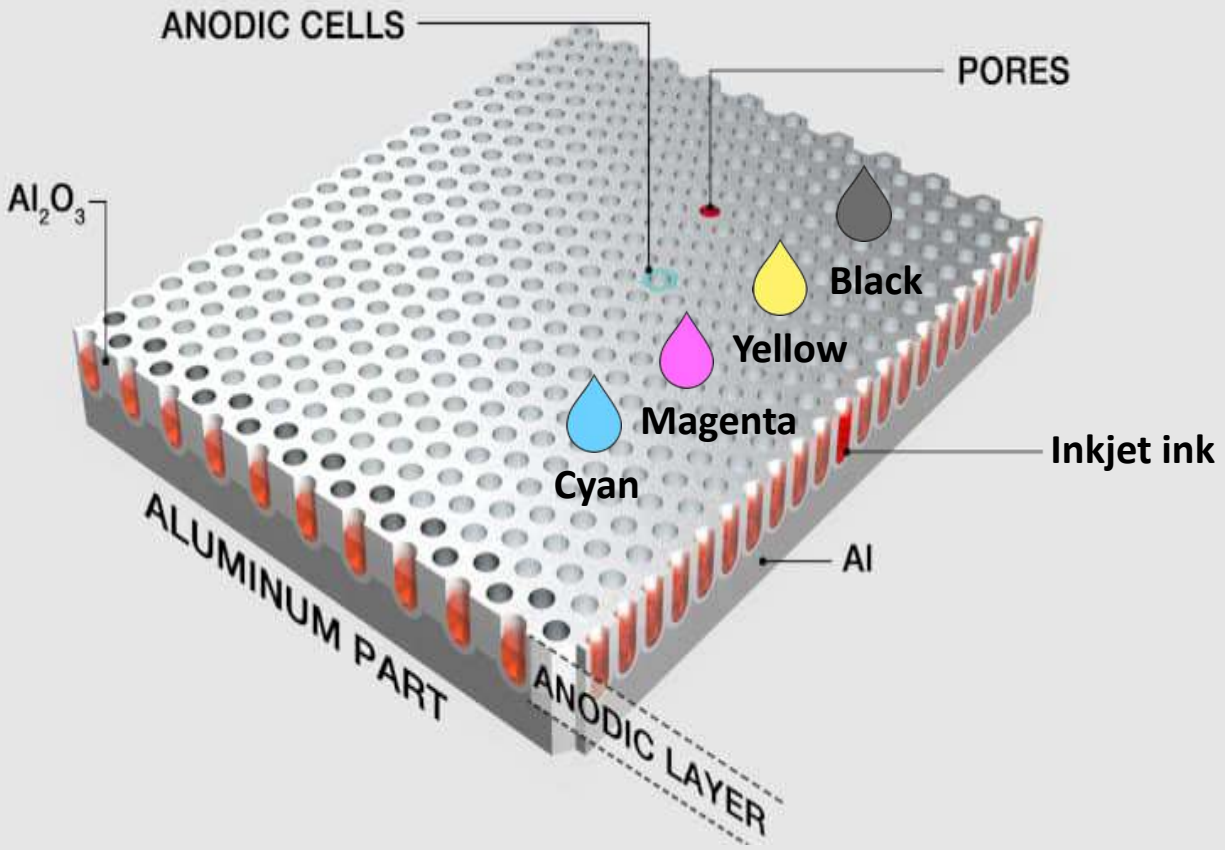
Infinite design diversity. 5 basic colors provides gamut of 40mln color shades;

Printing technology produces zero emissions during the process and zero waste after;

Line size is reduced by 30-50%, according.

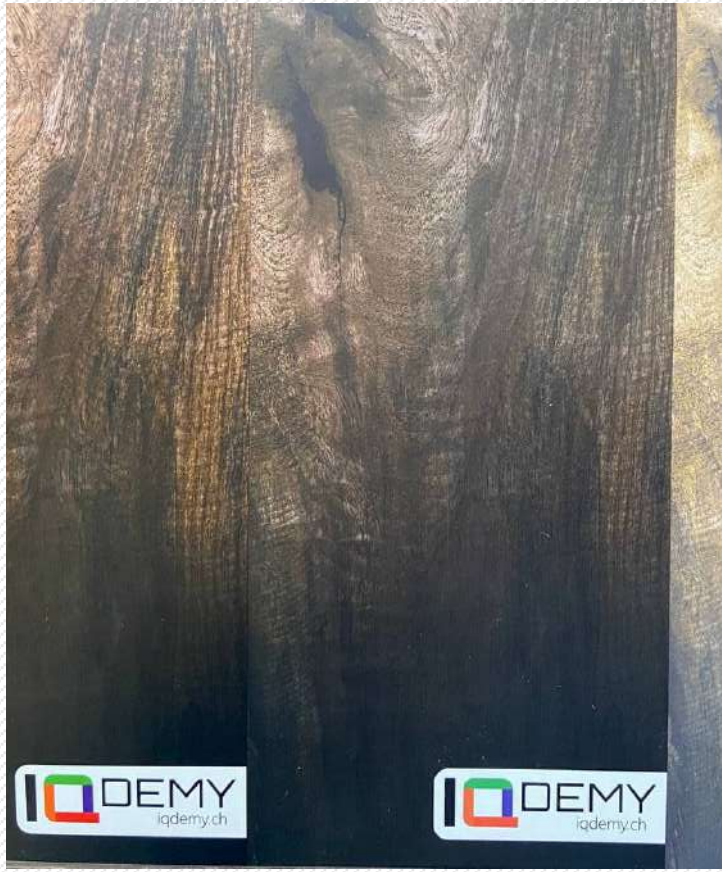
CONTINOUS DIGITAL PRINTING ON ANODIZED ALUMINIUM

IQDEMY develops industrial printers for sheet-to-sheet and continuous printing on anodized aluminium. The printing is made to the opened pores, with the next step Aluminium is sealed. After the sealing, image is protected by the oxide layer.




Coil Anodizing line
1520 x 0,5-3,0 mm

Printed Anodized Aluminium



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IQDEMY chemicals

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