

>> Touchpoint Industrial Applications

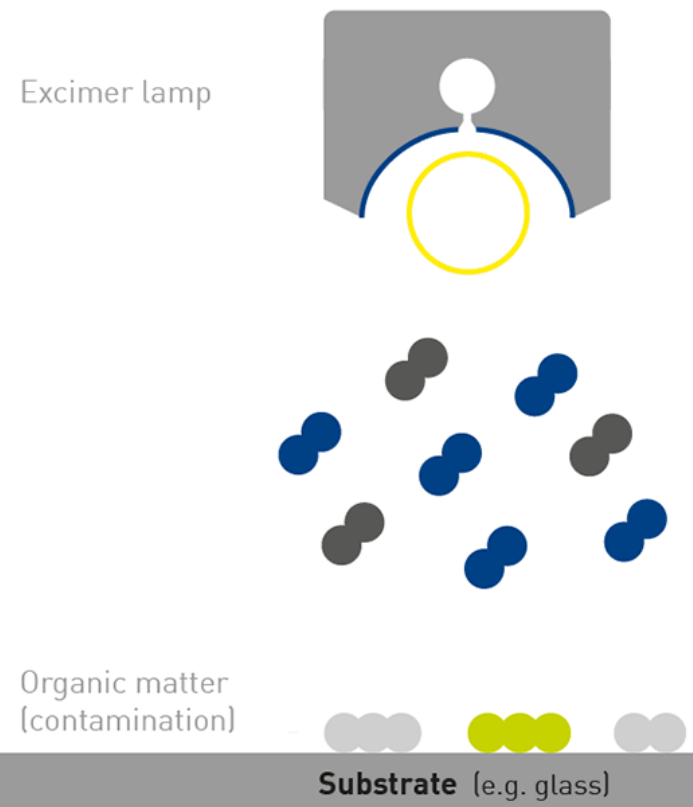
>> UV and Excimer for

- > Plastics**
- > Metal**
- > Cosmetics**
- > Energy storage systems**
- > Wood & wood based materials**
- > Displays, Touch displays**
- > Coil coating**
- > Fibres & Composite Materials**

>> because
surface
matters.

PROCESS OF CLEANING BY EXCIMER TECHNOLOGY

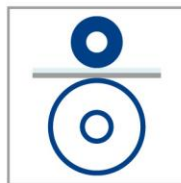
(simplified presentation)



- O** Atoms of oxygen
 - N** Atoms of nitrogen
 - H** Atoms of hydrogen
 - C** Atoms of carbon
- Organic matter

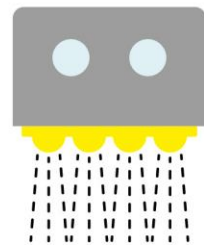
PROCESS OF MATTIFYING BY EXCIMER TECHNOLOGY

Application
roller coater / curtain coater



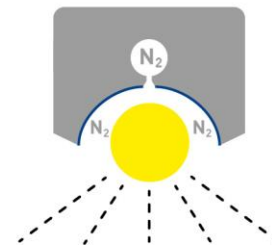
wet film

Pre-gelling
gallium / ozone-free
LED system



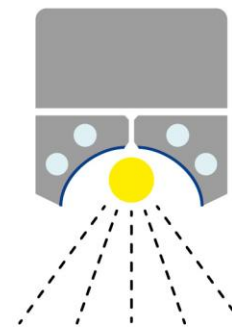
pre-gelled film

Excimer UV
EXClcure



polymerised surface

Postcuring
medium-pressure UV lamp



fully cured film

Microfolding
matting effect



substrate

A stack of various wood samples, including different species and finishes, fanned out from the top left towards the center of the image. The colors range from light tan to dark grey.

>> UV, LED UV and Excimer

- > Finishes
- > Fillers
- > Sealants
- > Base and top coats

>> UV, LED UV and Excimer for

- > OLED, QLED, LCD
- > Photo Alignment applications
- > Printed Electronics
- > Surface modification

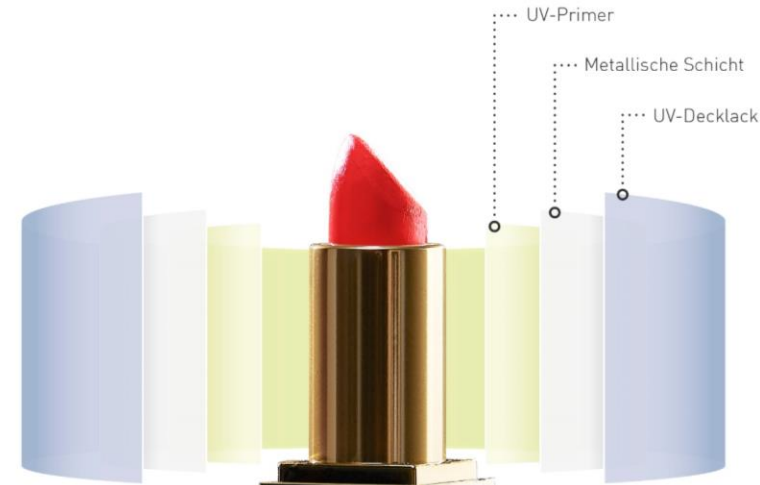


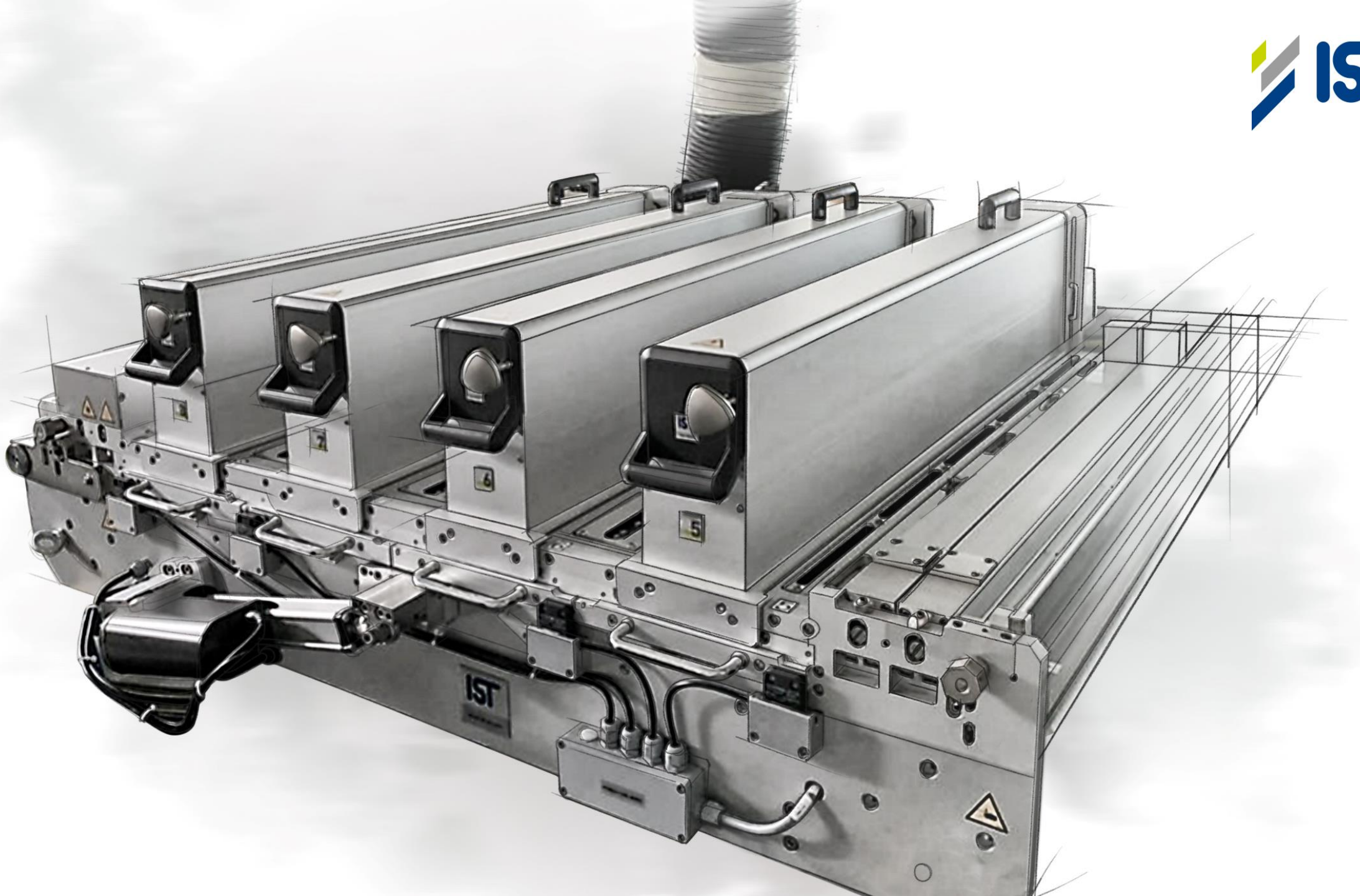
- > Separator films and membranes of li-ion batteries made of polyethylene, polypropylene, ceramics
- > Fuel cell membranes
- > Housing of battery cells, e.g. aluminium housing

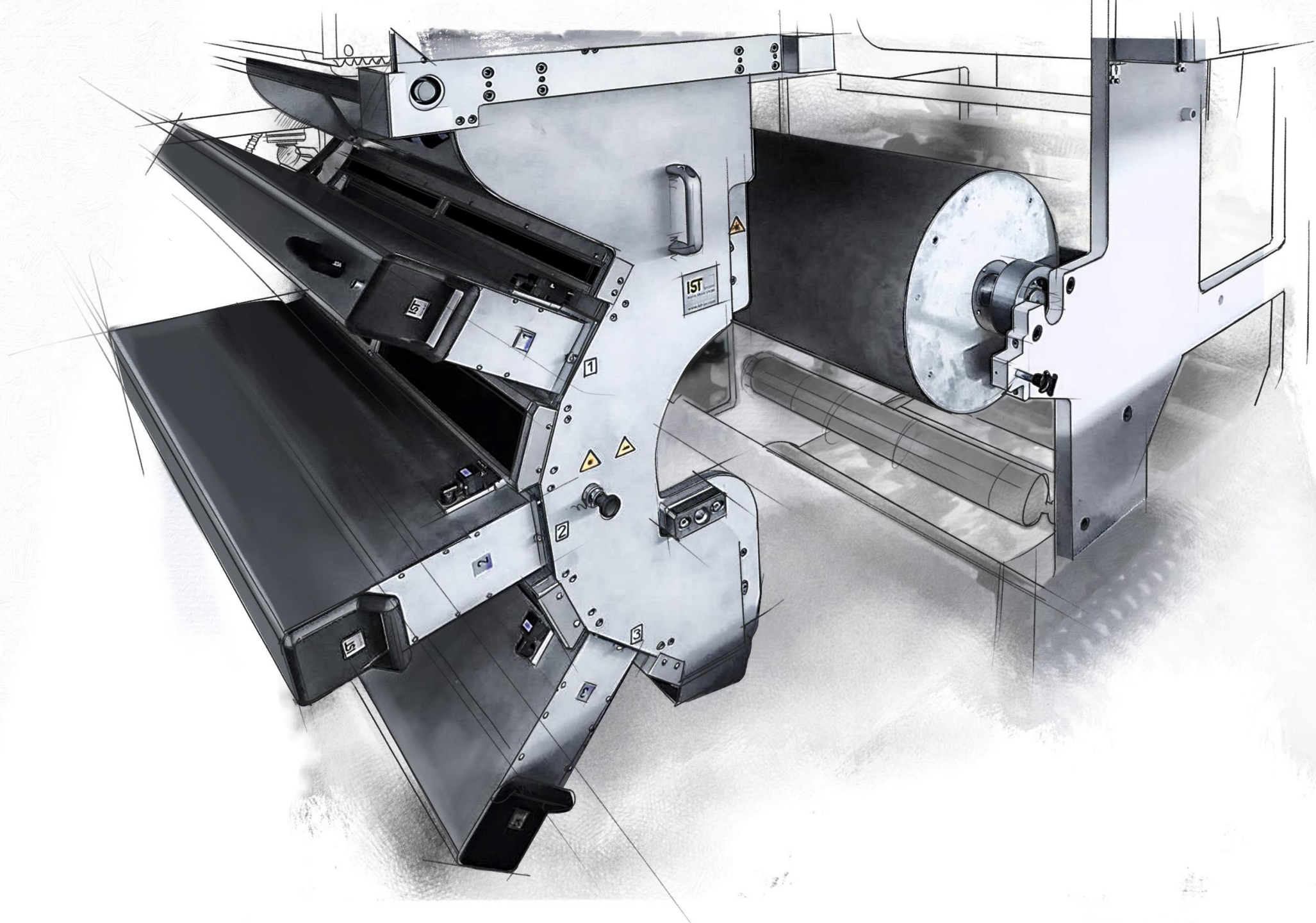


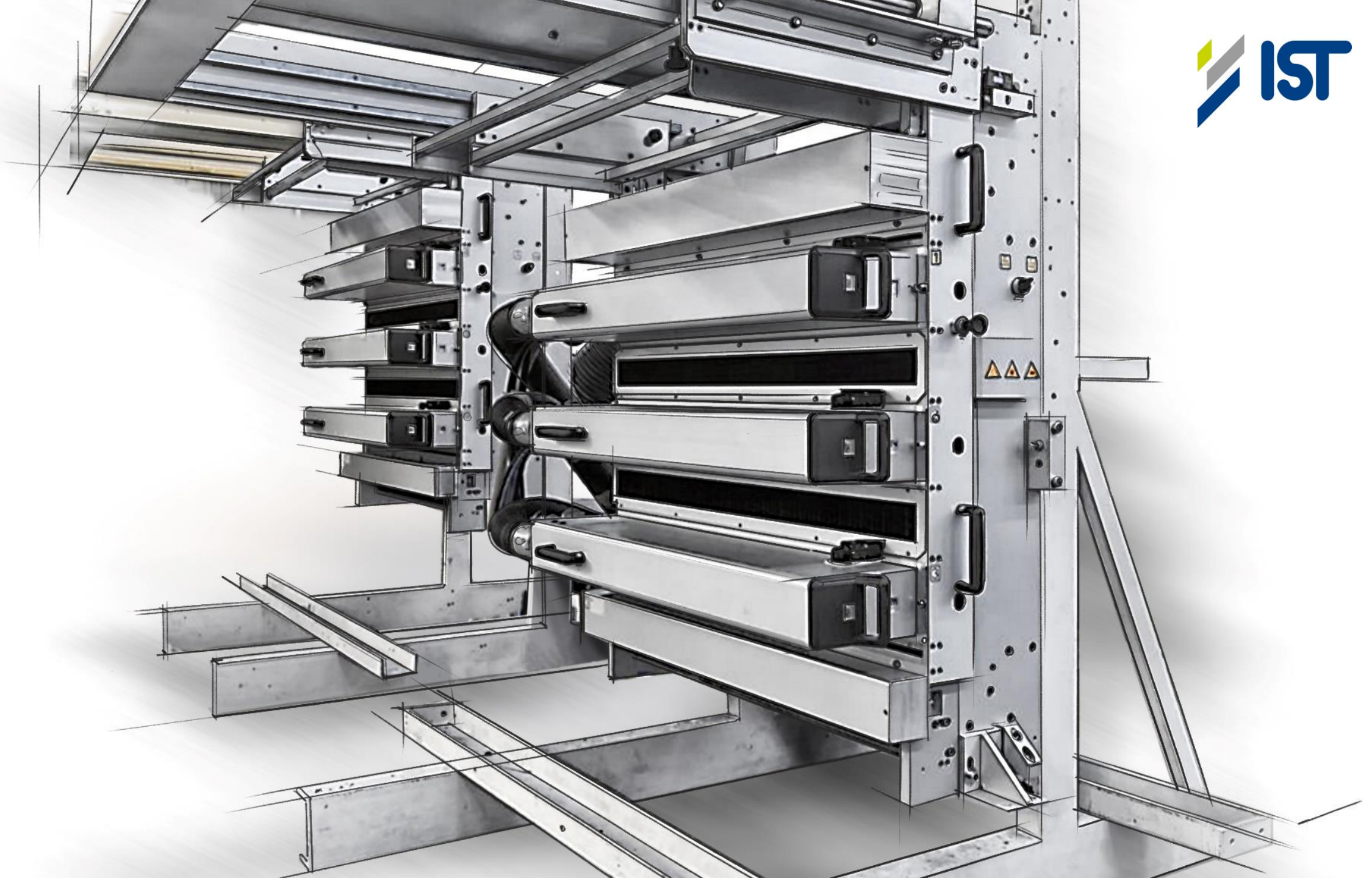
>> UV for Cosmetics

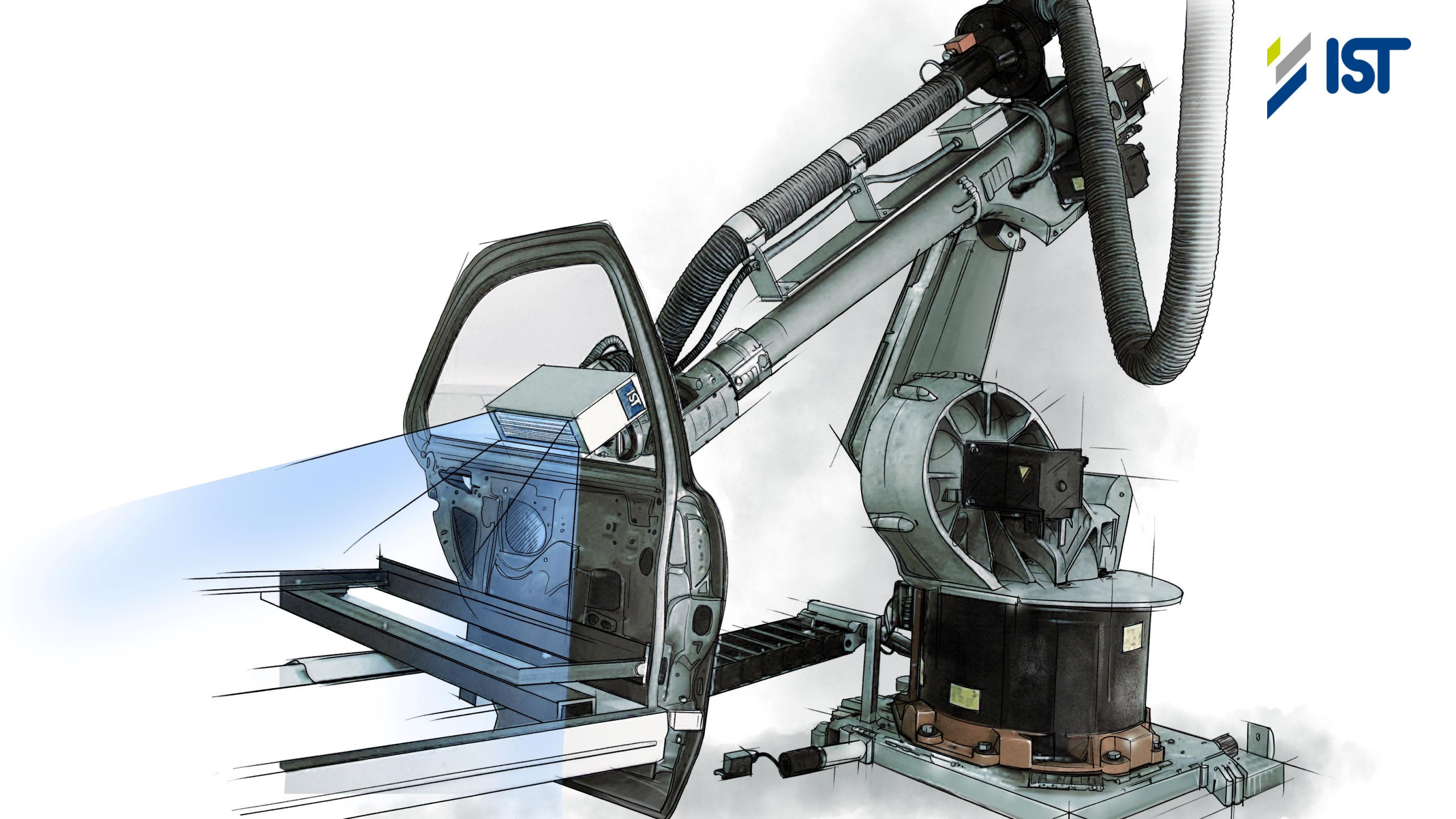
- > Protective varnish curing
- > Top coat curing
- > High-gloss appearance

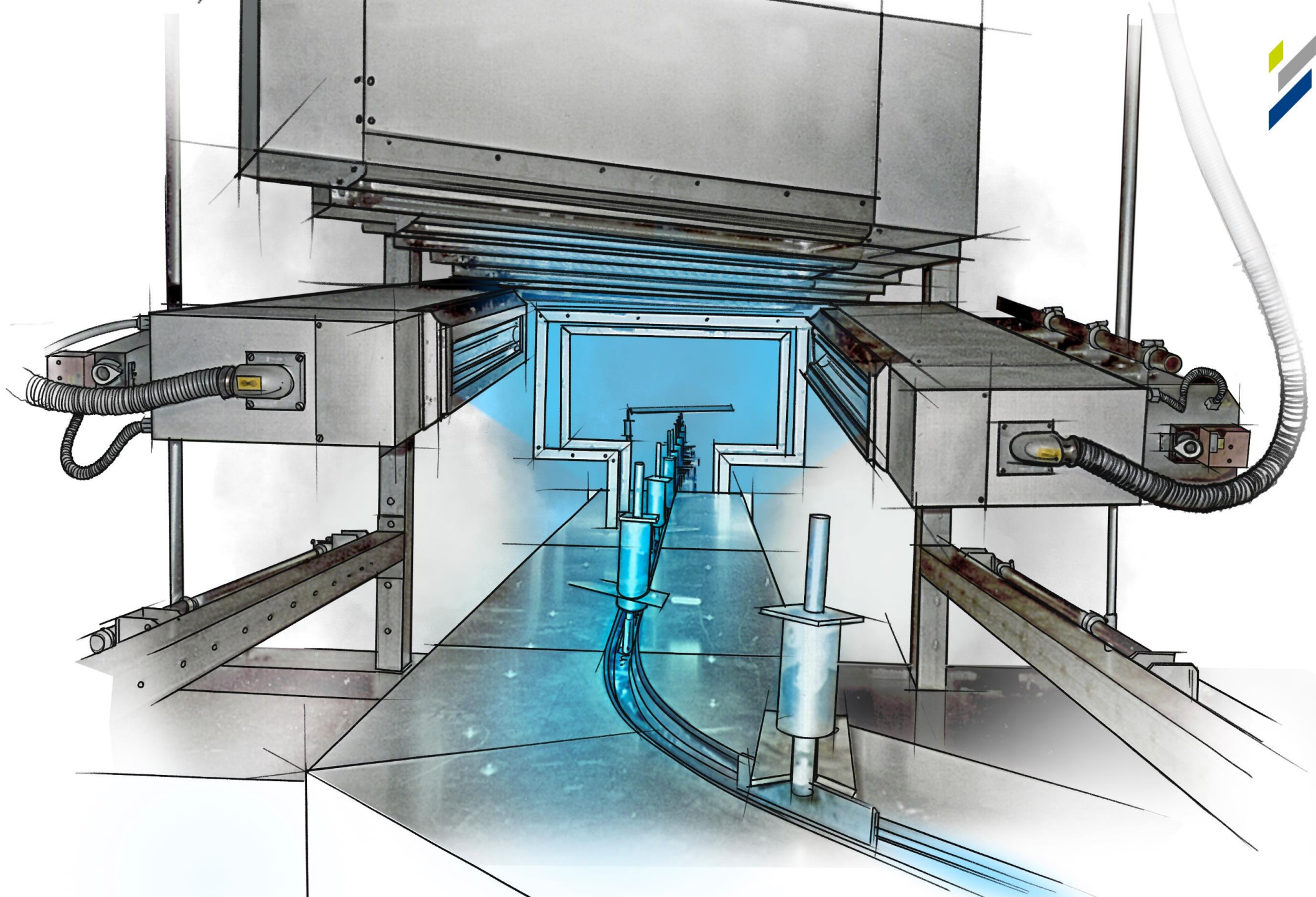


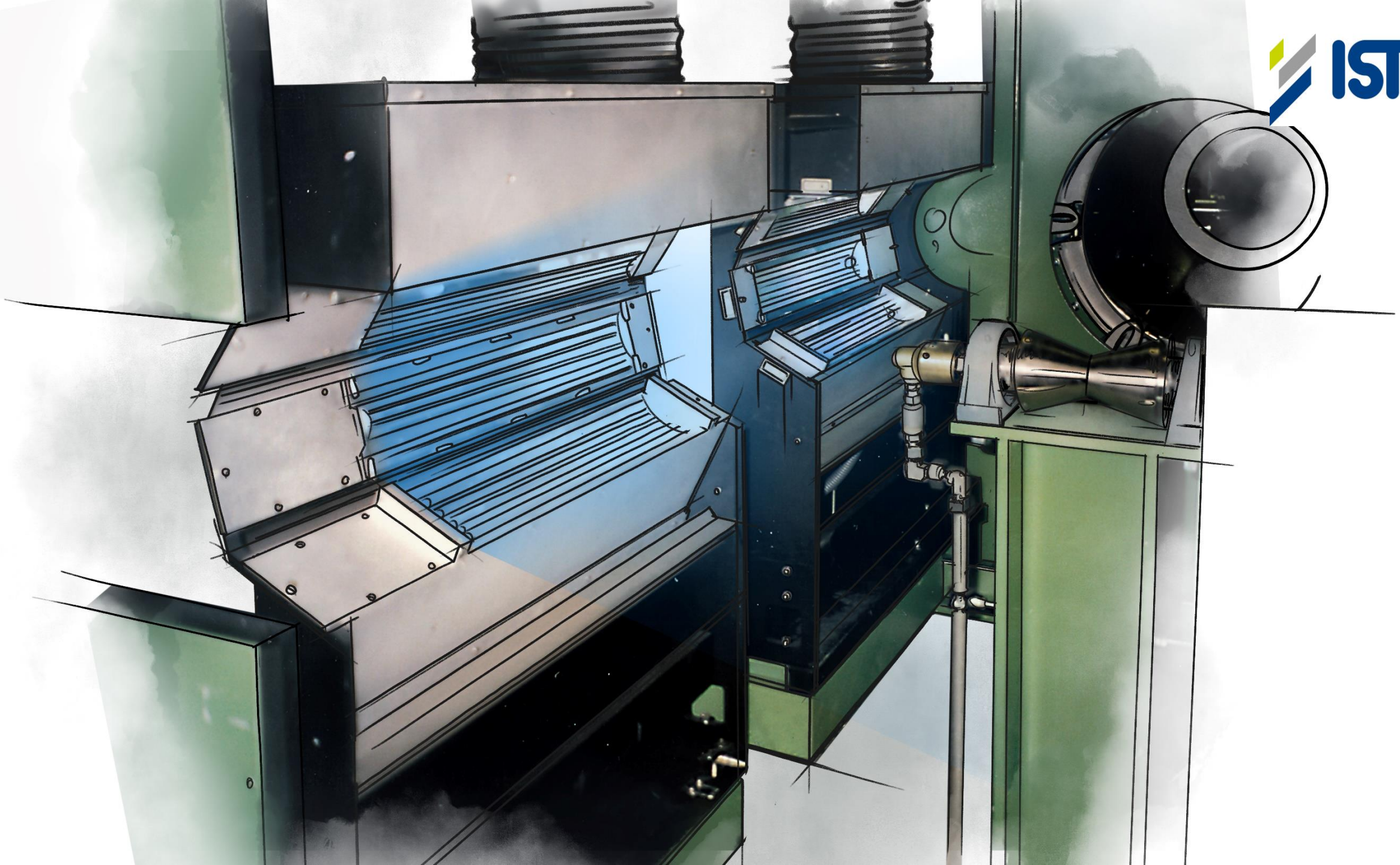












The IST FREEcure logo, featuring the IST symbol and the text 'FREEcure' in a lowercase, sans-serif font.

**>> Highest UV-C range
(200 – 288 nm)**

>> Touchpoint Industrial Applications

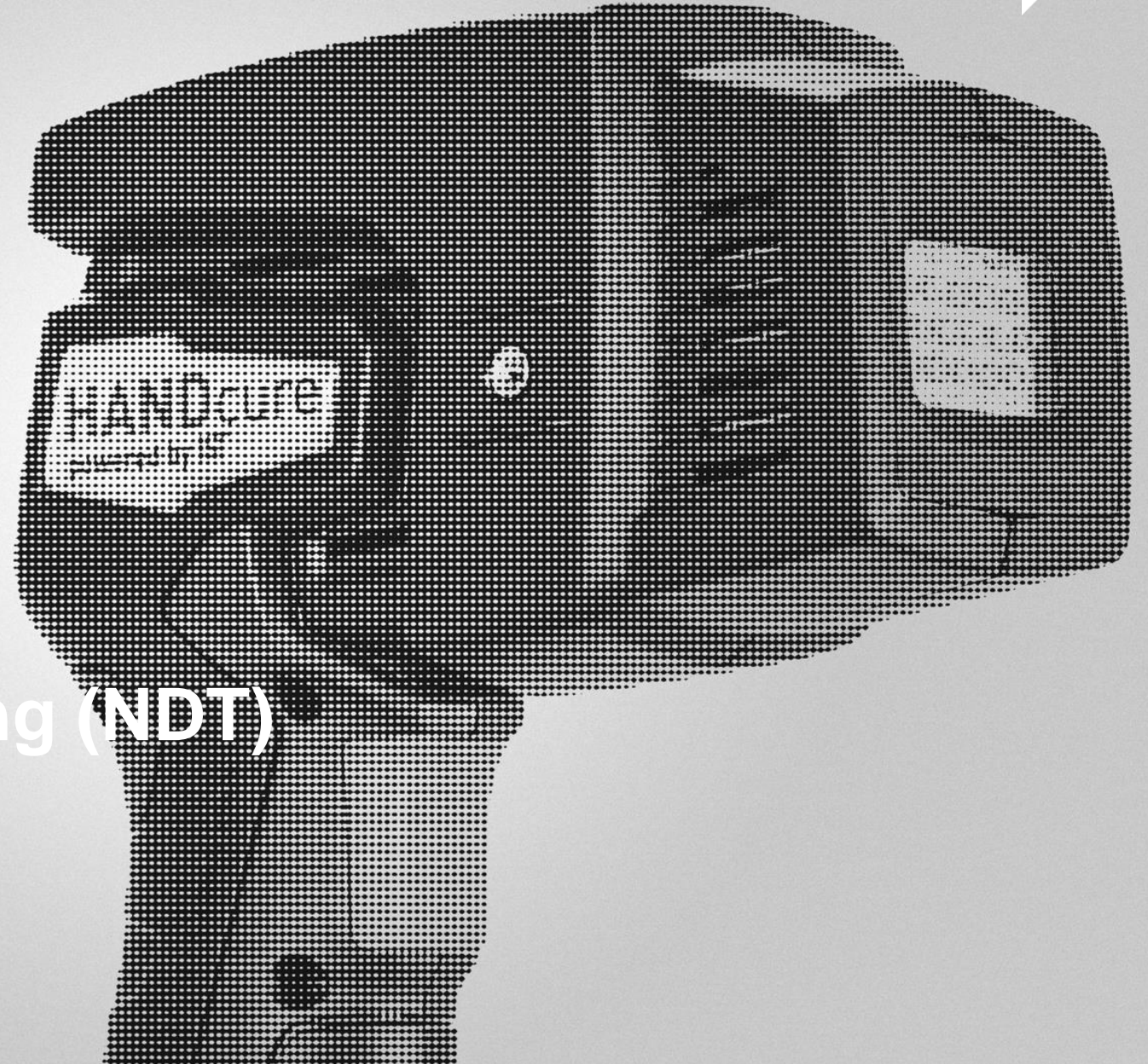


>> Life Science/ Medical

- > Documented application development
- > IQ/OQ/PQ support
- > Low (No)-migration cross-linking
- > Best in class solution for low migration syringes
- > Functional coatings
- > Hydrophilic/Hydrophobic coatings

>> HANDcure

- > Non-destructive testing (NDT)
- > Smart repair
- > Curing of repair puttys



IST
LED UV



>> UV and LED UV for

- > Curing of **glassfiber** materials
- > Curing of **hybrid** materials
- > World class process for high volume low cycle time production

>> UV and LED UV for

- > Curing of cavities in carbon parts
- > Curing of entire GFK Parts
- > Fastest process for high volume low cycle time curing





