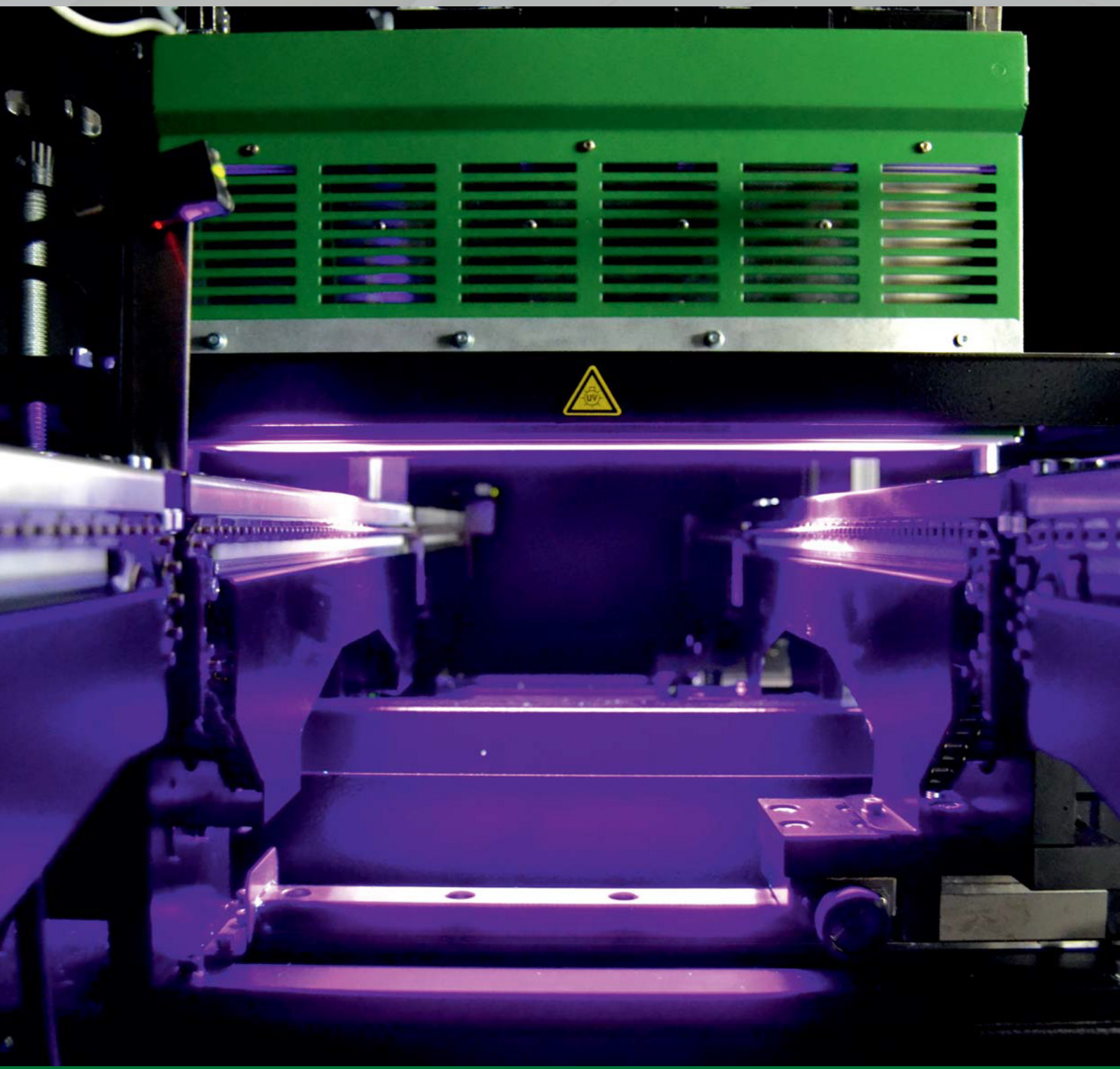
BELTRON®

OVER 50 Years QUALITY MADE IN GERMANY www.beltron.de

Innovative uv technology

sustained • efficient and save • for a clean future



Over 50 years - Quality „Made in Germany“

Beltron GmbH

over 50 years Quality „Made in Germany“

BELTRON produces high quality machinery and equipment for many applications and markets. Generally our partners are from the graphic industry as well as from other industrial applications. Besides the printing and reproduction market and the electronic industry, the bran “**BELTRON**” has been approved in many other fields, such as solar industry, nano technology, uv-hardening of glue, medical industry, glass industry, automobile industry, production of furniture or other wood based applications, manufacturing of concrete plates, are just a few examples from **BELTRON**’s manifold partner portfolio.

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more than 50 years your partner in UV technology

Which criteria should your new business partner have to become interesting for you?

Besides requirements like quality and reliability, competence, readiness and partnership are the most important features. As many of our business partners confirm, **BELTRON** fulfils these requirements. Of course – our equipment stands in accordance with all main regulations, such as CE, DIN or SMEMA. Over 50 years quality and experience combined with “**Made in Germany**” – which is still **BELTRON**’s policy.

Design and engineering in 3D and most modern CNC and laser production enables us to fulfil all partner specific requirements. Your needs and wishes must not be what we have – our possibilities must be according to your needs. Furthermore **BELTRON** offers his customers a minimized spare parts stock as we have our own spare parts storage. More than 20.000 different articles including UV lamps etc. are available for your requirements.Besides a strong network of local partners, **BELTRON** has business relations to customers all over the world in almost all countries.

Want to try? Your Satisfaction is our target...

LED UV dryer
BE 20

Application:

UV-curing drying inks, printing inks, coatings, adhesives and other UV-sensitive materials by polymerization rather than evaporation of solvents. So far, conventional mercury UV lamps were used for the cure, but meanwhile, the efficient, environmentally friendly UV-LED technology is a proven and superior alternative.

Unlike mercury vapor lamps, the LED curing use semiconductor-based LEDs to generate ultraviolet (UV) light. BELTRON relays on the UV-LED technology's advantages with maximized performance, reliability and UV energy.

Design:

The complete turnkey unit is equipped with a UV LED light irradiation unit. Since the heat generated during the UV-LED radiation is only 1 / 10 of the heat produced during the conventional UV irradiation, the cooling and exhaust fans consume accordingly less energy. The plant is designed for a working width of 200 mm. The lamp can be started and stopped instantly and therefore no shutter is required during production. The UV power is adjustable within 20 to 100%.

Technical Information LED UV dryer BE 20

- Wave length: 365 nm, 395 nm
- UV-LED-Power: 1 - 12 W/cm²
- Radiation width: up to 200 mm
- Length: 1100 mm
- Depth: 1000 mm
- Height: 1200 mm
- Conveyor belt width: 225 mm
- Conveyor belt speed: 0,5-12 m/min
- Electrical supply: 230V / 50 Hz
- CE-Sign

The LED UV dryer BE 20 are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

These are just a few examples from the various partner portfolio of Beltron.

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LED UV dryer
BE 15

Application:

UV-curing drying inks, printing inks, coatings, adhesives and other UV-sensitive materials by polymerization rather than evaporation of solvents. So far, conventional mercury UV lamps were used for the cure, but meanwhile, the efficient, environmentally friendly UV-LED technology is a proven and superior alternative.

Unlike mercury vapor lamps, the LED curing use semiconductor-based LEDs to generate ultraviolet (UV) light. BELTRON relays on the UV-LED technology's advantages with maximized performance, reliability and UV energy.

Design:

The complete turnkey unit is equipped with a UV LED light irradiation unit. Since the heat generated during the UV-LED radiation is only 1 / 10 of the heat produced during the conventional UV irradiation, the cooling and exhaust fans consume accordingly less energy.
The plant is designed for a working width of 150 mm. The lamp can be started and stopped instantly and therefore no shutter is required during production. The UV power is adjustable within 20 to 100%.

Technical Information LED UV dryer BE 15

- Wave length: 365 nm, 395 nm
- UV-LED-Power: 1 - 12 W/cm²
- Radiation width: up to 150 mm
- Lenght: 700 mm
- Depth : 455 mm
- Height: 560 mm
- Conveyor belt width: 210 mm
- Conveyor belt speed: 2 - 27 m/min with maintenance-free drive motor
- Passage height: adjustable
- Digital belt speed control
- Electrical supply: 230V / 50 Hz
- CE-Sign

The LED UV dryer BE 15 are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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LED UV dryer
BE 7

Application:

UV-curing drying inks, printing inks, coatings, adhesives and other UV-sensitive materials by polymerization rather than evaporation of solvents. So far, conventional mercury UV lamps were used for the cure, but meanwhile, the efficient, environmentally friendly UV-LED technology is a proven and superior alternative.

Unlike mercury vapor lamps, the LED curing use semiconductor-based LEDs to generate ultraviolet (UV) light. BELTRON relys on the UV-LED technology's advantages with maximized performance, reliability and UV energy.

Design:

The complete turnkey unit is equipped with a UV LED light irradiation unit. Since the heat generated during the UV-LED radiation is only 1 / 10 of the heat produced during the conventional UV irradiation, the cooling and exhaust fans consume accordingly less energy.
The plant is designed for a working width of 150 mm. The lamp can be started and stopped instantly and therefore no shutter is required during production. The UV power is adjustable within 20 to 100%.

Technical Information LED UV dryer BE 7

- Wave length: 365 nm, 395 nm
- UV-LED-Power: 1 - 12 W/cm²
- Radiation width: 75 mm
- Length: 700 mm
- Depth: 330 mm
- Height: 390 mm
- Conveyor belt width: 120 mm
- Conveyor belt speed: 2 - 27 m/min with maintenance-free drive motor
- Digital belt speed control
- Passage height: adjustable
- Electrical supply: 230V / 50 Hz
- CE-Sign

The LED UV dryer BE 7 are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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LED+UV dryer
BE 7 combination

Application:

The combination unit LED + UV BE 7 according to customer requirements equipped with 4, 8 or 12 W / cm ² LED module and a classical UV lamp unit. This unit combines the previous conventional UV-technology with the cleaner and more efficient UV LED technology.

Application UV:

For drying and polymerization of uv screen inks, uv glue, for printed circuit boards, laminated materials, plastic, paper, glass, metal and other printed materials in flow process.

Application LED-UV:

UV-curing drying inks, printing inks, coatings, adhesives and other UV-sensitive materials by polymerization rather than evaporation of solvents. So far, conventional mercury UV lamps were used for the cure, but meanwhile, the efficient, environmentally friendly UV-LED technology is a proven and superior alternative. Unlike mercury vapor lamps, the LED curing use semiconductor-based LEDs to generate ultraviolet (UV) light. BELTRON relys on the UV-LED technology's advantages with maximized performance, reliability and UV energy.

Technical Information LED+UV dryer BE 7 combination

- Wave length: 365 nm, 395 nm
- UV-LED-Power: 1 - 12 W/cm²
- Radiation width: 75 mm
- Length: 700 mm
- Depth: 330 mm
- Height: 390 mm
- Conveyor belt width: 120 mm
- Conveyor belt speed: 2 - 27 m/min with maintenance-free drive motor
- Digital belt speed control
- Passage height: adjustable
- Electrical supply: 230V / 50 Hz
- CE-Sign

The LED+UV dryer BE 7combination are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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LED-UV
chain conveyor

Application:

With the LED-UV chain conveyor you can dry all UV-reactive materials e.g. protection lacquers with thick layers, adhesives, resins and UV-varnishes.

So far conventional, mercurial UV-lamps are used for the hardening process, but in the meantime the more efficiently and environment friendly UV-LED-Technology represents a well-tried option.
Different to quicksilver steam lamps, the LED- Hardening uses semiconductor LED's for the generation of ultraviolet (UV) light. BELTRON use the advantages of the UV-LED-Technology with maximum of performance, reliability and UV-Energy.

Design:

The LED-UV chain conveyor convinces also by an individual adjustment in width (for PCB's up to 240 x 400 mm) and height from 20 – 110 mm, an electric controlled cooling system, SPS computer control for surveillance and control of all functions of the device. As well a transport speed control, which is adapted to the cycle of production and the needed UV-dosage. In comparison with the common BELTRON UV-dryer, the LED-UV chain conveyor offers a space saving isolated application on a tight area.

Technical Information LED UV chain conveyor

- Wave length: 365 nm or 395 nm
- UV-LED-Power: 1-12 W/cm²
- Width of radiation: up to 240 mm
- Length: 1700 mm
- Depth: 835 mm
- Height: 1640 mm
- Electrical supply: 230 V / 50 Hz
- CE-Sign

The LED UV chain conveyor are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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UV dryer
UV lamp service- and safety-set

An essential addition to existing maintenance and safety.

All ultra violet lamps contain a small amount of mercury and in accordance with Guidance Note EH17 (revised) ; all users of ultra violet light are advised to have a kit easily accessible located within the factory area where UV equipment is operated. Our uv lamp change and mercury spillage kit has all that is needed, not only to handle the delicate process of lamp changing, but to clean up safely in the event of accidental damage to the lamp.
Detailed instructions are included.

Content of the Set:

Service Set

Safety Spectacles - high impact polycarbonate lens which meets EN166 Grade 1F. Lint Free Nylon Gloves - essential when handling or cleaning uv lamps. Ensures prevention of fingerprint marking which will burn into the quartz during operation and significantly reduce lamp life. Also cleaning issues - saturated with 70% v/v Isopropyl Alcohol BP for cleaning uv lamps immediately after fitting and also periodically during the operating life. Also used for cleaning filter glasses and reflectors.

Mercury Spillage Kit

Materials and personal protective equipment for safe removal of small mercury spillages, which could result in the event of UV lamp breakages.

Contains:

Zinc powder, GPR.
Safety spectacles.
protective rubber.
Gloves.
Scoop and spoon; sponge; disposal bag and full instructions.

The UV lamp service- and safety-set are used successfully in:
printing industry, electronic industry, plastic industry, building materials industry, textile industry, packaging industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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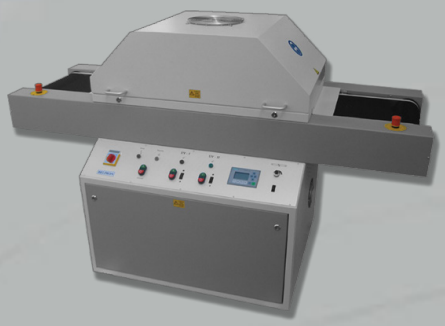

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