



Innovative

uv technology

sustained • efficient and save • for a clean future



Over 50 years - Quality „Made in Germany“

Beltron GmbH

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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 brand “**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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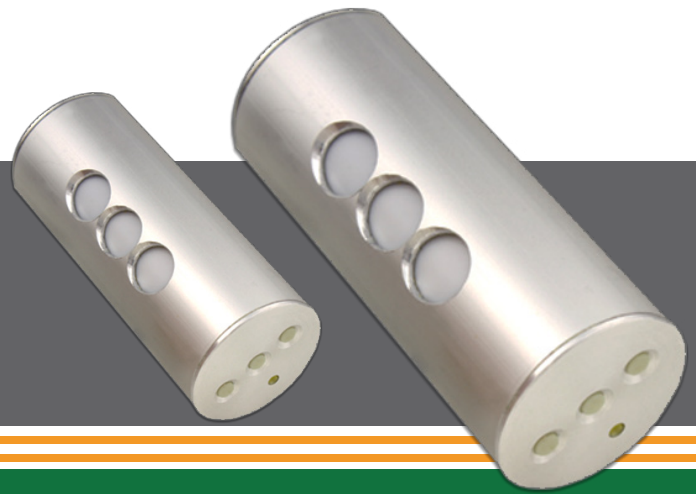
more than 50 years your partner in UV technology

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...



UV-Stick I & II

Application:

Special Measurement device for investigation of the UV-dosage, UV-intensity and temperature.

Application:

The Beltron UV-Stick is obtainable by voting as a UV-A, -B, -C – multichannel measurement device. The new developed device has its operation area at industrial UV-Hardening utilizations and shows the total intensity of the radiation in mW/cm^2 and the dosage in mJ/cm^2 . The UV-Stick enables the operator to record the UV-intensities and UV-dosages as well as the temperatures (UV-Stick II) in tubes / bottles.

During the pass through, the sensor is mounted by a dummy, which is provided by the customer. The small size and extremely small weight allow UV-measurements under realistic conditions. For a measurement, several integrated UV-sensors will be used. Via microprocessors the UV-intensity at various UV-areas will be measured separately but at the same time. The UV-dosage will be calculated separately in the single areas via the time of radiation. The user gets not only information about the total energy, but he can record the UV-areas individually. The measurement sensors are located side by side on the cylinder shaped wall of the housing of the UV-stick.

All data will be stored on a Micro-SD-memory-card and can be uploaded on a PC, edited and saved. This enables e.g. to draw up and record a history based on the measurement values of one or several lamps by way of graphics.

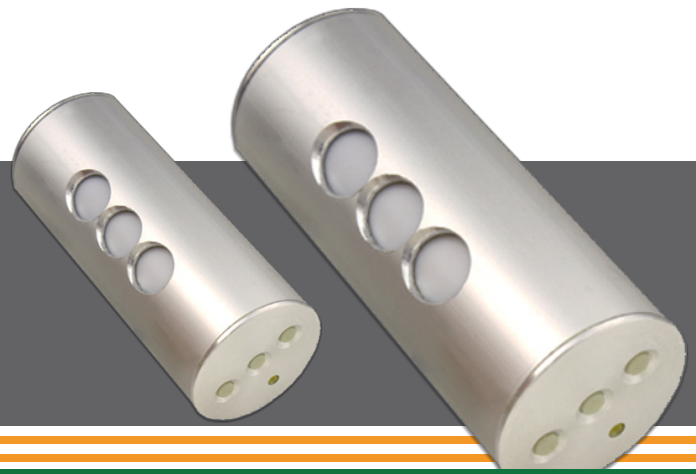
The UV Stick I & II is used successfully in:

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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UV-Stick I & II

Technical Information UV-Stick I & II

A B C	UV-Stick I	UV-A 315 – 410 nm
A B C Temp.	UV-Stick II	UV-B 280 – 315 nm UV-C 230 – 280 nm
Range of measurement	1 to 2.000 mW/cm ²	
Sampling Rate	5 msec (200/sec)	
Memory cycle	90 sec.	
Triggertime	120 sec.	
Accuracy of measurement	± 5%	
Position Photodiodes	Within approx. 10 mm distance on the perpendicular axis.	
Display	/	
Energy supply	LiPO 3,7 V fix installed, Auto-Off after 1 minute The charging capacity is sufficient for approx. 100 measurements. Charging takes place via the attached USB-Cabel.	
Sizes / Weight	Diameter 25 mm, L= 60 mm / ca. 40 g	
Housing	Aluminium. The housing must be protected by the customer against intensive UV-radiation and heat, i.e. via a suitable mounting or shield.	
Range of temperature measurement	0 to 110° C / 32 to 230° F (only UV Stick II)	
Operation temperature	0 to 45° C / 32° to 113° F , Surrounding max. 110 °C / 230 ° F for 10s	
Scope of delivery	UV-Stick, Micro-SD-Card, USB-Cabel, PC-Software, Plastic transport box	
Calibration	The calibration, which is traceable to PTB, occure in accordance to DIN EN ISO / IEC 17025 and will be confirmed by the attached certificate.	

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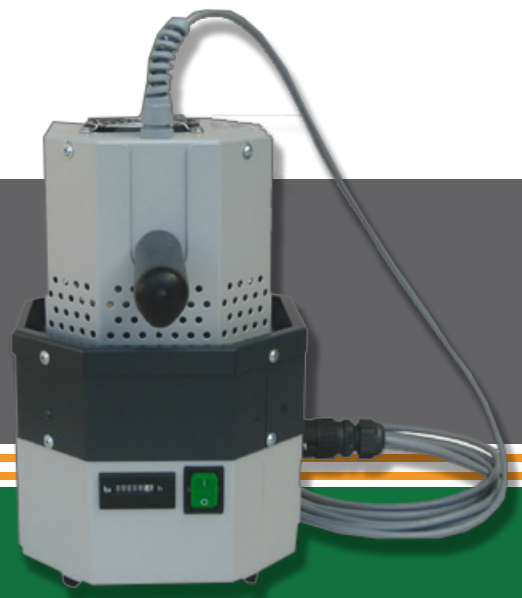
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UV hand lamp



Application:

The uv hand lamp is suitable for mobile use in intense uv radiation, for curing of filling and bonding of various materials such as glass or plastic. With appropriate filters — such as blacklite filter — special applications such as fluorescence tests could be performed.

Design:

The BELTRON uv hand lamp is a 250W uv lamp with a separate ballast. The uv lamp has high radiated power (800 mW/cm²) and user friendliness. The spotlight remains cool even after hours of use by optimal cooling housing and can be cold in the docking station on the ballast without limitation. The docking station is designed so that no stray light comes out and therefore a threat to the user is avoided. The lamp is equipped with iron (Fe), mercury (Hg) or gallium (Ga) radiation and can also be supplied with different filters (eg black filter).

The cable between the lamp and lamp ballast unit has a standard length of 4m. At the base are the main switch, power switch and hour meter.

Technical Information UV hand lamp

Total dimensions:	196 x 196 x 304 mm
Total weight:	approx 6 Kg
Weight of lamp:	approx 1,5 Kg
Bulb:	250 W (Filling: Fe, Hg or Ga)
Light intensity:	approx 800m W/cm ²
Curent:	320 W
Filter:	WSG, QRZ, SLF

The UV hand lamp is used successfully in:
electronic industry, pharmaceutical industry, automotive industry, glass industry and engineering.

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UV chamber

Application:

Applications of the UV-chamber are numerous. Besides the standard tasks such as curing and glueing, the chamber may be used for material testing and radiation for chemical and biological applications.

Design:

UV-chamber for laboratory and manual production, various UV emission spectra are possible due to combination of UV lamps and UV filter, manual lamp shutter or optional as automatic electric shutter with timer, high safety by interlocking the door during UV exposure resp. the shutter can not be opened while the door is open, equipped with operating hours counter and capacity code switch (50%/100%) as well as a footswitch to start the curing process, even and homogeneous radiation in the UV-chamber, lamp unit with 850W UV lamp (other power optional), high UV intensity due to computer optimized reflector geometry, UV-chamber completely equipped with special reflectors, radiation area max. 400 x 300 mm. Due to the large equipment door the unit is capable of handling larger/higher materials. Our air-cooled system guarantees a low-heating UV-chamber.

Technical Information UV chamber

UV-Chamber (small)

Radiation area: 400 x 310 x 460 mm

Door: 385 x 380 mm

Total weight: approx 37 kg

Dimensions: 466 x 488 x 754 mm

Lamp: 850 W (Fe, Hg or Ga)

Radiation area: 400 x 300 mm

Filter glass: WSG, QRZ, SLF

Electrical supply: 230 V / 50 Hz

CE-Sign

UV Chamber (big)

Radiation area: 400 x 310 x 590 mm

Door: 385 x 510 mm

Total weight: approx 40 kg

Dimensions: 466 x 488 x 884 mm

Lamp: 850 W (Fe, Hg or Ga)

Radiation area: 400 x 300 mm

Filter glass: WSG, QRZ, SLF

Electrical supply: 230 V / 50 Hz

CE-Sign

The UV chamber is used successfully in:

electronic industry, textile industry, packaging industry and automotive industry.

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Stationary UV dryer Beltrost

Application:

The UV dryer Beltrost is used for uniform drying / curing of UV coatings, adhesives, and is particularly suitable for use in the production of small series, with repairs and in the laboratory. Also suitable for higher substrates in which a lateral irradiation is necessary.

Design:

Stationary UV dryer for small batches, repairs and lab operation, front cover with single drawer and viewing window. Low heating devices with optimized air flow, even for longer drying times, even optimal illumination. Safety lock against accidental opening of the drying chamber during the curing process. Control by timer and function keys. Low-power consumption due to 50% power reduction. Electric shutter - therefore no compressed air required.

Scope of Supply:

- Stationary UV dryer with drawer
- Unit dimensions: 570 x 570 x 460 mm (W x D x H)
- Drawer dimensions: 495 x 540 x 90 mm
- Drawer extension: > 500 mm
- 3m power cable

Optional:

BELTROMAT control computer

Technical Information Stationary UV dryer Beltrost

Power consumption: max 850 W
Fuse: (F1/F2) 8 A-slow
Power supply: 230 V / 50 Hz
Mercury doped UV lamp (Hg)
Lamp power: 800 W
Irradiated area approximately: 210 x 290 (DIN A4)
Dimensions: 570 x 570 x 460 mm
Electrical supply: 230 V / 50 Hz
CE-Sign

The Stationary UV dryer Beltrost is used successfully in:
electronic industry, textile industry and packaging industry.

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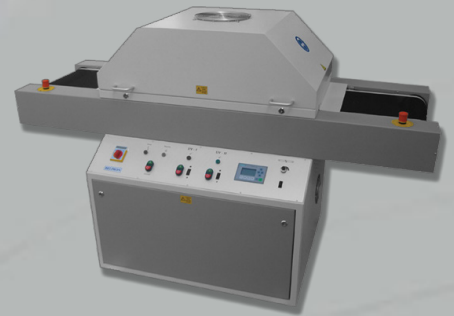
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