AUTLED°°°°

WE LIVE LIGHT

AUTLED – Manufacturer and wholesaler of LED light strips

A passion for light since 2011

AUTLED was founded on a passion for innovative lighting. Our focus on LED light strips was born out of the desire to create high-quality products that serve the needs of the market. The progressive expansion of our family-run business with 15 highly specialised employees led us to relocate to Obersdorf, Lower Austria, in 2015.

From professional to professional

Along with the product development and manufacture of all our LED products, AUTLED is also responsible for product design. In our in-house carpentry workshop, new developments are thoroughly tested in practical applications – before they are put into series production. Most of the furniture in the company's headquarters was also made in our workshop. This helps ensure the know-how for the use of LED light strips in furniture construction flows directly into product development.

A strong emphasis on service

We are a partner that can offer specialised services to the furniture and carpentry industries on an equal footing:
- Fabrication of LED strips
- Cutting and CNC machining of profiles for LEDs
- Manufacturing complete lights
- Assembly of light modules for backlighting illuminated ceilings and many other applications

Quality first

We put the focus on quality, both in manufacturing and in the services we offer:
- High quality of light and maximum colour rendering
- Very narrow "binning", which means good and strict colour sorting of the LEDs used
- Consistent quality across all batches
- High-quality surface finishing for profiles, sleek design
- All LED products 100% quality controlled in house
- Special lighting systems manufactured on site

Highly customised

Many components are manufactured especially for AUTLED to ensure that they meet our requirements. This means that we have control over the LED chips used, their drivers and the PCB layout which helps ensure we achieve the desired characteristics. Our profile design, including the required extrusion tools, is manufactured especially and exclusively for us.

Clear company philosophy

That's why when it comes to the important issues of distribution and price, we focus on consistency and transparency:
- Sales exclusively through our distribution partners
- Transparent pricing always available on www.autled.com

Thinking ahead

Environmental considerations are important to us. That is why in 2020 we installed a 200 kWp photovoltaic system on the roof of our building, which also powers a large part of the company's vehicle fleet. For us, long-term thinking also means good and lasting cooperation with our partners, stable business processes, excellent service and a long product lifetime.

OUR WAREHOUSE   *Fast availability is important to us*

Our large warehouse facilities mean that we always have large quantities of our products in stock. This means that even larger projects can be delivered in full and completed on time. Streamlined administration enables a quick response to both enquiries and orders.

LED FLEXSTRIPS

Our LED Flexstrips are 5 metres long, wound onto plastic spools, and have a 50 cm connection cable at either end. These IP-44 rated strips are enclosed in high-transparency heat-shrink tubing and have TESA® double-sided adhesive tape on the back.

Transparent heat-shrink tubing

This effective protection against mechanical damage and static charging greatly extends the service life of the LEDs. Furthermore, it also broadens the emission angle, softening the edges of the light cone and, unlike free-emitting LEDs, avoids sharp edges to the illuminated area.

A 10 cm piece of heat-shrink tubing with hot-melt adhesive is included with each package, enabling the LED Flexstrips to be sealed after assembly or cutting to length.

Please note

LED strips must always be affixed to a clean and thermally conductive surface. Aluminium profiles are the ideal choice for this purpose.

Our 5 m LED strips cannot be extended. For lengths greater than 5 m, several LED strips must be connected to the power supply in parallel – not in series like a chain!

Product range

We stock monochrome LED strips in a wide range of brightness and light colours, as well as adjustable-colour LED strips which emit two different shades of white, RGB (red, green, blue) or RGBW (+white) colour palettes. The colour temperature of the white light can be set as required.

Voltage

Our LED strips mostly operate with 24 V DC power and can be shortened by cutting at the points provided for this purpose. Multicolour strips always have a single shared positive terminal (common anode).

The number that follows the name of the LED strip, e.g. "LED Flexstrip 25" represents the official power consumption of the 5 m roll. In this example, the LED strip draws 25 W, and thus requires a mains adaptor that delivers 25 W plus at least 10% in reserve.

Quality

Our LED strips boast very high colour rendering scores (CRI/Ra)! This expresses as a percentage the proportion of colours that are reproduced by the emitted light. For very high values (above 90%), the emitted light appears very natural, and illuminated materials such as woods and fabrics, but also human skin, are perceived without distortion.

Tolerance

We also place great importance on the sorting of the individual LEDs, a process known as "binning". This helps ensure that the minimal colour differences between the individual LEDs on the LED strip are imperceptible to the human eye.

Efficiency

The size of the LED chips is also important when aiming to combine high colour rendering with high efficiency. In our case, the LEDs are never operated with 100% of the maximum possible current, but only around a third. This is the main reason for the long lifetime and the high quality of our LED strips.

Colour

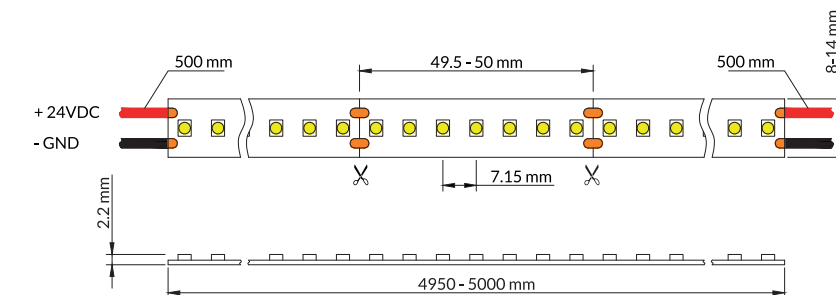|					
Candlelight white (CLW), 2100K	Ultra-warm white (UWW), 2550K	Warm white (WW), 3050K	Halogen white (HW), 3550K	Neutral white (NW), 4050K	Cold white (CW), 6200K

R	G	B	100% Mix RGB

Schematic

500 mm   49.5 - 50 mm   500 mm   8-14 mm
+ 24VDC
– GND
2.2 mm
7.15 mm
4950 - 5000 mm

100% tested quality

We measure the LEDs from every batch to ensure their photometric parameters comply with the values stated in the catalogue. Each individual LED strip is also checked for faultless operation before it is shipped.

LED PROFILES

Our aluminium profiles and PMMA covers have been developed 100% by AUTLED and are manufactured exclusively for us. The specific requirements of the respective application are already taken into account at the design stage. Since furniture construction predominantly uses 19 mm thick panels, the LB profile series is based on this dimension.

The profiles

Very stringent tolerances are applied during production, which on the one hand guarantees excellent dimensional accuracy, but also ensures perfect compatibility with accessories. Covers can be easy to install, but still hold firmly and securely and meet the profiles at the edges forming a fine, narrow join. This makes it possible to create practically borderless light strips. The mounting clips "grip" precisely around the smooth profile and can be designed very discreetly thanks to the high precision of all components.
Please note: Mounting clips are only available for flat profiles!

Perfect design

Every side of an AUTLED profile is its best side! The high-quality anodised surface finishes and the minimalist design enable installation in any position. The reverse side is also completely flat and sealed, and is equally suitable as a visible side. The profiles are preferably mounted with screws countersunk into the profile base, or can be attached using double-sided adhesive tape or construction adhesive. If the profiles are to be screwed in place, we do not glue the flexible strips, even for complete light strips.

Top quality

Our high standards of quality also extend to the end caps. Great care is taken when manufacturing these, especially for recessed profiles. To ensure that the circumferential cover edge extends to the end cap, each cap is individually milled from a single block of material.

Each part is hand-finished separately and then piece-anodised to produce a high-quality visual appearance.
Please note: Screwed end caps have a material thickness of 2.5 mm, whereas end caps that are glued or plugged in are 1 mm thick. This means that if a profile is to be closed at both ends, its length will always increase by 5 mm or 2 mm, respectively.
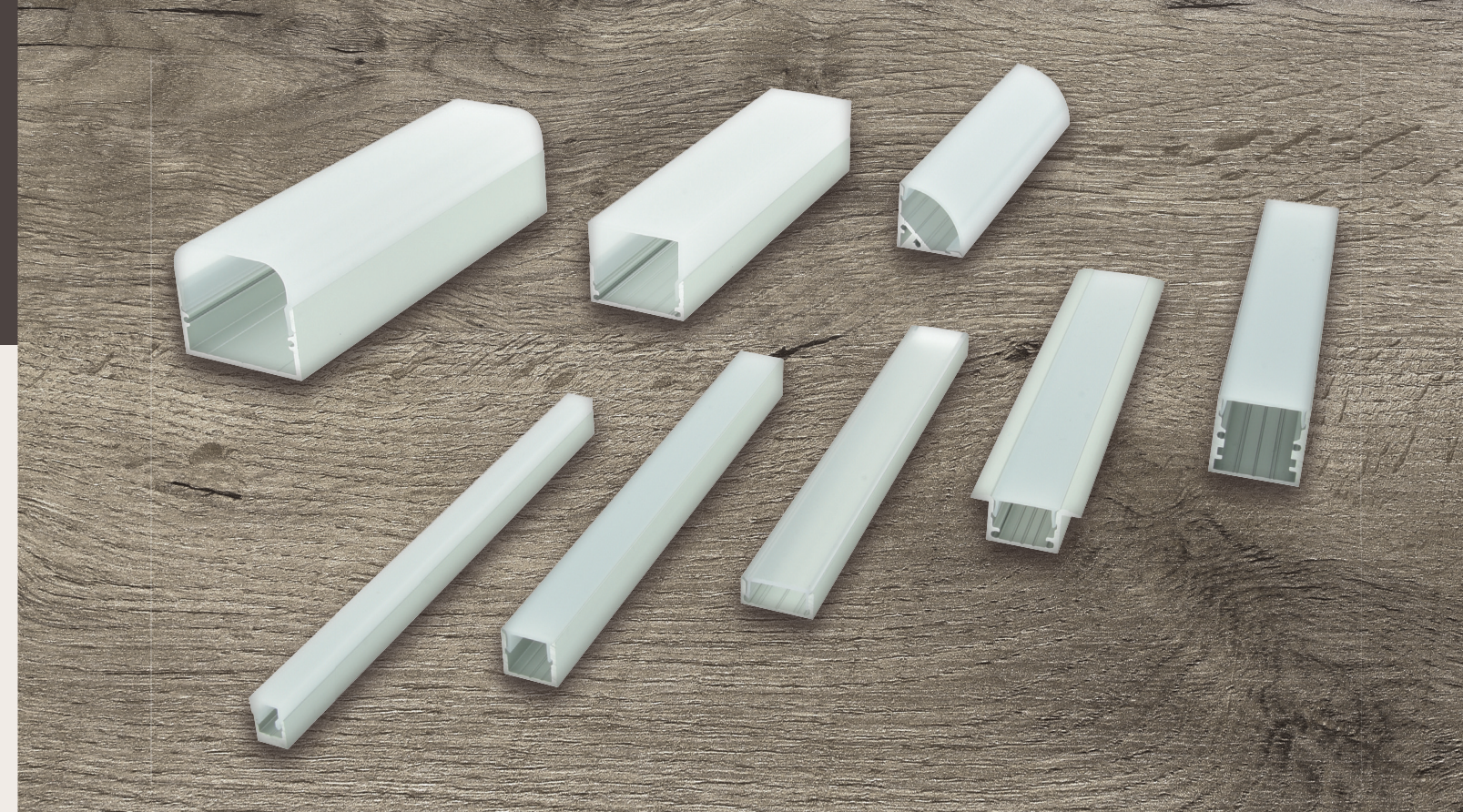
Power supply location

For profiles up to and including the TB series, the controller has to be placed externally. For the CL series onwards, it is possible in certain cases to mount power supply units inside the profile. A wide range of power supplies and dimmers can be integrated into the MF and SL profile series.

Helpful expert advice

Thermal expansion should always be taken into account!
Plastics and aluminium have different coefficients of thermal expansion, which must be taken into account during assembly. Aluminium expands by approx. 0.25 mm per metre for an increase in temperature of 10°C; for plastics, this value lies at around 0.70 mm per metre. We therefore recommend that aluminium profiles are cut approx. 0.5 mm/m shorter, and PMMA covers approx. 1 mm/m shorter, than the actual measurements, as when the lighting is switched on, the profile and cover heat up and expand.

! *Our added value: We offer a range of accessories to complete your lighting system, such as end caps, mounting clips, mounting brackets, cable supports as well as connectors for larger profiles.*

Standard lengths

The profiles and covers we hold in stock have a length of 4.2 m, of which approx. 4.1 m can be used without restrictions, as contact marks from the anodising process may be present. Our standard lengths are 1, 2 and 4 m. For lengths over 2 m, the minimum order quantity is 10 pieces and transport will be via freight forwarder.

We offer 7 different series with a range of styles:
> XS (Xtra Small) 8 mm wide
> KL (Small) 14 mm wide
> LB (Shop fitting) 19 mm wide
> TB (Drywall construction) 25 mm wide – **special:**
  SPL (Mirror lighting) 25 x 25 mm
> CL (Compact lighting) 35 mm wide
> MF (Multi-functional) 45 mm wide
> SL (Special lighting) 60 mm wide

We offer a range of different covers for our profiles:
> Flat transparent (for indirect lighting and illumination)
> Flat opal (with high profiles for visibly homogeneous light strips)
> Round opal
  (for cove lighting and indirect lighting in confined spaces)
> Angular opal
  (with flat profiles for broad-angled designer light strips)
> Narrow angled or asymmetric transparent covers
> Prismatic inserts (for use with transparent covers)

LED PROFILES

XSR
8 mm x 12.5 mm

KLR
14 mm x 13 mm

KLI
14 mm x 12.5 mm
built-in

KLE
19 mm x 19 mm

KLY
20.8 mm x 20.6 mm

KLT
14 mm x 17 mm
built-in

KLP
17 mm x 30 mm

KLC + KLL
Grip moulding profile

TBW
26.3 mm x 80 mm

TBP
46 mm x 60 mm
Handrail profile

CLF
35 mm x 15 mm

CLU
35 mm x 15 mm
built-in

CLR
35 mm x 35 mm

CLI
35 mm x 33 mm
built-in

CLW
35 mm x 90 mm

LBF
19 mm x 8 mm

LBU
19 mm x 6 mm
built-in

LBL
19 mm x 14 mm

LBJ
19 mm x 12 mm
built-in

LBR
19 mm x 19 mm

LBI
19 mm x 17 mm
built-in

LBE
24 mm x 24 mm

LBE 30/60
19.3 mm x 21.6 mm

MFF
45 mm x 15 mm

MFL
45 mm x 25 mm

MFJ
45 mm x 25 mm
built-in

MFS
45 mm x 15 mm

MFR
45 mm x 60 mm

MFI
45 mm x 55 mm
built-in

MFH
45 mm x 66 mm

LBY
27.2 mm x 27.7 mm

LBS
29.9 mm x 26.7 mm

LBK
30 mm x 16.7 mm

LBKI
30 mm x 12.5 mm
built-in

LBV
22 mm x 65 mm

SPL
25 mm x 25 mm

TBF
25 mm x 12.5 mm

TBU
25 mm x 12.5 mm
built-in
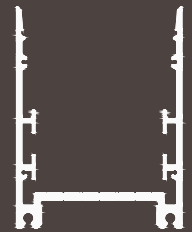
SLA
60 mm x 36 mm

SLI
60 mm x 34 mm
built-in

SLR
60 mm x 50 mm

SLH
60 mm x 80 mm

SLO
64 mm x 80 mm

SLT
60 mm x 68 mm
built-in

TBK
25 mm x 15 mm

TBL
25 mm x 19 mm

TBJ
25 mm x 19 mm
built-in

TBR
25 mm x 25 mm

TBI
25 mm x 25 mm
built-in

TBE
30 mm x 30 mm

TBH
25 mm x 19 mm

LBG
100 mm x 19 mm

LBGI
100 mm x 19 mm
built-in

PMMA COVERS FOR LED PROFILES

XS Cover
angular milky

KL Cover
flat milky

KL Cover
angular milky

LB Cover
flat transparent / milky

LB Cover
round milky

LB Cover
angular milky

LB Cover
narrow beam

LB Cover
asymmetric

TB Cover
flat transparent / milky

TB Cover
round milky

TB Cover
angular milky

TB Cover
narrow beam

TB Cover
asymmetric

SP Cover
angular milky

SP Cover
round milky

CL Cover
flat transparent / milky

CL Microprismatic
insert
transparent / milky

CL Cover
round milky

CL Cover
angular milky

MF Cover
flat transparent / milky

MF Microprismatic
insert
transparent / milky

MF Cover
round milky

MF Cover
angular milky

SL Cover
flat transparent / milky

SL Microprismatic
insert
transparent / milky

SL Cover
round milky

SL Cover
angular milky

ALUMINIUM COVERS AND INSERTS

LB Cover

TB Cover

CL Cover

MF Cover

SL Cover

TB Flat stock

CL Insert

MF Insert

MF Module insert

SL Insert

SL Module insert

Smooth SLW Wallwasher insert
(suitable for all SL profiles)

Grooved SLW Wallwasher insert
(suitable for all SL profiles)

VARIOUS OTHER ALUMINIUM PROFILES

L-bracket
19 mm x 19 mm
Inside dimension

L-bracket
25 mm x 25 mm
Inside dimension

L-bracket
35 mm x 35 mm
Inside dimension

Skirting profile
13 mm x 61.5 mm

Luminous ceiling profile,
built-in
7.4 mm x 33 mm

Luminous ceiling profile,
construction
25 mm x 50 mm

LED POWER SUPPLIES

Our LED Flexstrips require 24 V DC constant-voltage power supplies.

Power consumption

Since the voltage drop for a 5 m roll is much higher than for a 1 m section, the power consumption will not be 5 times as high, but lower. This value can be found in the product documentation. If a complete 5 m roll is used, the 5 m value can be used for calculations.

Our power supplies

A distinction is made between LEDs that can only be switched on and off, and those that can be dimmed. Most power supplies cannot be dimmed on the primary side, i.e. via the supply voltage. This means that conventional phase dimmers cannot be used.

Dimming

Our LED strips are generally dimmed using the PWM (pulse width modulation) method. This involves switching the current supply on and off around 1000 times a second. The ratio between the on- and off-durations determines the degree of dimming. The dimming is always applied to the 24 V DC output from the secondary side of the Flexstrip power supply. The majority of switchable power supplies (except for budget power supplies) can also be subsequently upgraded to offer PWM dimming. However, only one power supply per dimmer can be connected at any one time. Increasing the power by connecting several power supplies in parallel is not possible.

Dimmable power supplies

Dimmable power supplies have the PWM dimmer already built in and are usually controlled via a DALI signal. Alternatively, these power supplies can also be controlled via SwitchDIM/PushDIM / TouchDIM, i.e. by an AC line switched by a physical switch. However, in this case it is not possible to guarantee synchronisation between multiple power supplies.

Helpful expert advice

Generally speaking, it is recommendable to use 5 conductors for the building's primary wiring, so as to leave all options open. This means that 3 wires can be used for the power supply, and 2 wires for DALI control. Although there are now wireless systems and the possibility of addressing power supplies directly via Bluetooth, a permanently wired solution is always preferable.

Our added value: *We offer a wide selection of units with different power ratings, designs, protection classes and connection options.*

LED CONTROL

Using lighting controls can significantly improve the efficiency of an LED lighting installation, maximising energy savings. Lighting scenes help increase ease of use, reduce costs and create a unique ambience in the space.

We offer a wide range of options to control our LED Flexstrips:

> Manual dimming (from the dimmer itself)
> Button dimming (Switch DIM / Push DIM / Touch DIM)
> 1-10 V
> Wireless (RF)
> WLAN (WiFi)
> Bluetooth (Casambi)
> DALI
> KNX
> DMX

This enables our products
not just to integrate with existing control devices, but also makes them suited for stand-alone installations, e.g. a single room.

Our range also includes
a "PWM Repeater" (amplifier), with which any available PWM signal can be boosted. In this case, the installed dimmers should only be used as control devices (no direct LED load), and the Flexstrips driven only by the PWM Repeater. This means that control devices, such as those that work with 5 V or 12 V, can even be reused and combined with our products.

In summary: *There is only ever one single power supply per dimmer, although several dimmers can be operated with a single power supply (e.g. when several LED strips should work independently, but a single power supply can handle the total power demand).*

SERVICES

When it comes to the quality of the finished product, workmanship plays a major role. Apart from the actual product, the necessary expertise and the right tools are also essential. With specially trained staff and state-of-the-art machines, we are proud to offer an all-round package that will leave nothing to be desired.

In addition to the distribution of our product range, we offer the following services:

> Assembly of LED Flexstrips | Strip and connecting cable lengths as desired within system limitations

> Cutting aluminium profiles and PMMA covers to length | Millimetre precision for cut lengths, 0.1-degree precision for mitre cuts

> Powder coating of aluminium profiles in standard RAL colours

> Assembly of ready-to-connect and "plug and play" light strips to be mounted with clips, adhesive or magnets

> Design and production of special lighting fixtures using our standard range

> Ready-cut profiles and fabric coverings (white or printed) for illuminated ceilings

> Panels for backlighting illuminated ceilings and walls

> Programming control devices, dimmers, DALI and DMX controllers

> Development and supply of LED Flexstrips, LED modules and LED profiles according to customer requirements for appropriate order volumes

> Production of ready-to-connect, fully functional samples
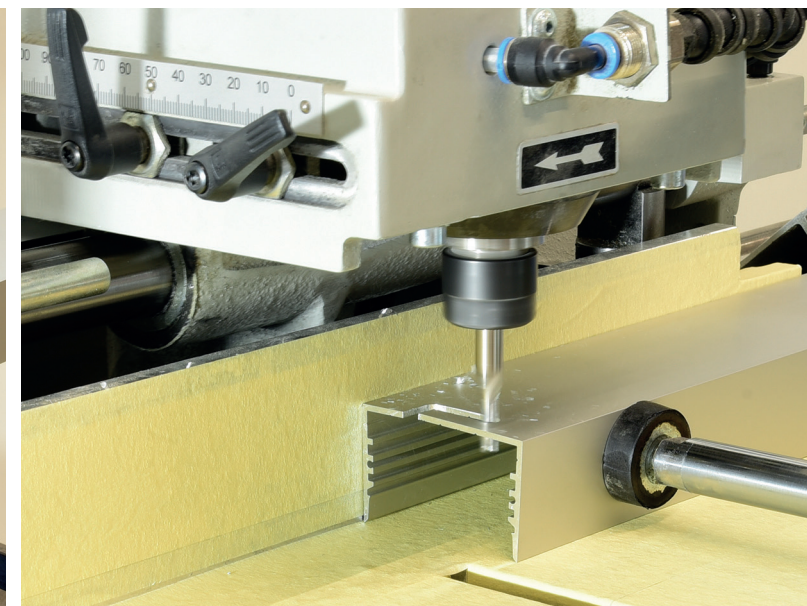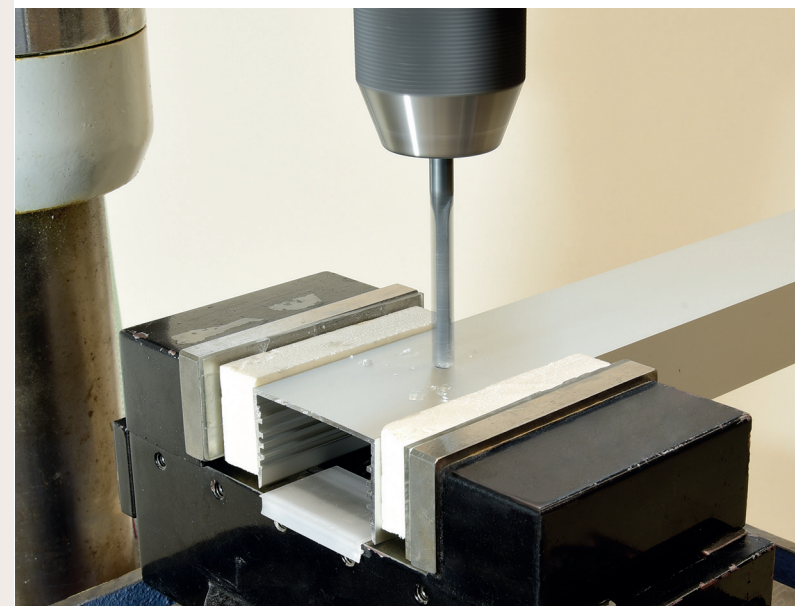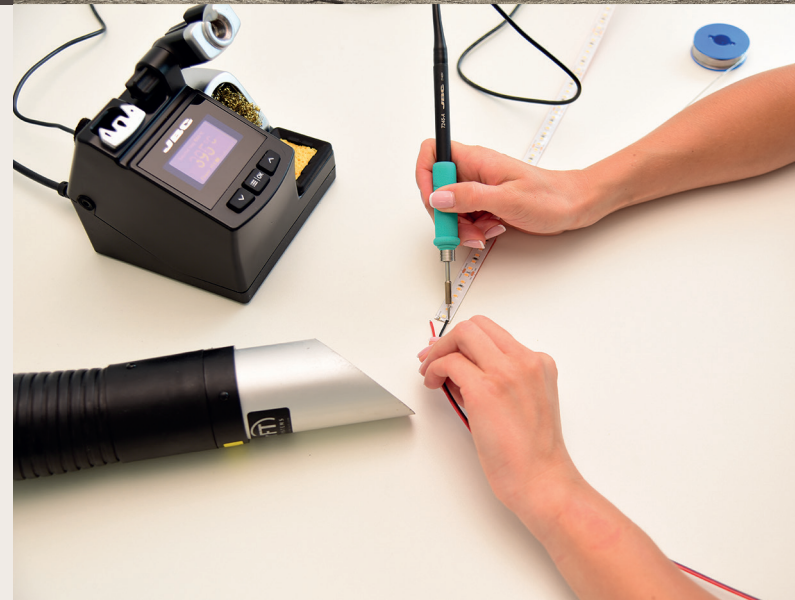
DISTRIBUTION PARTNERS

Since we are unfortunately unable to offer direct sales, you are welcome to purchase our product range exclusively through our distribution partners. Here is a selection of our distribution partners active throughout Austria, some of which also trade internationally.

Artemide®

Artemide Handelsgesellschaft m.b.H.
Gonzagagasse 1 / Morzinplatz
1010 Wien, Austria
T: +43 1 8032182
Email: info@artemide.at

H. GAUTZSCH
Firmengruppe

H. Gautzsch Wien GmbH & Co. KG
Richard-Strauß-Straße 31
1230 Wien, Austria
T: +43 1 5963692
Email: wien@gautzsch.at

LUX———IT
MEMBER OF **EGLO**

LUX-IT GmbH
Tyrolean Crafted
Bradl 319
6210 Wiesing, Austria
T: +43 5244 22002
Email: mail@luxit.at

d. RAUCH
Ihr Elektrofachgroßhändler

RAUCH Dietmar GmbH
Elektrofachgroßhandel
Schönbrunner Straße 37
1050 Wien, Austria
T: +43 1 587 82 83
Email: kevin.patko@rauch-efg.at

SCHRACK
TECHNIK

Schrack Technik GmbH
Abteilung Lichttechnik
Seybelgasse 13
1230 Wien, Austria
T: +43 1 866 85 5900
Email: lichttechnik@schrack.com

sonepar
Powered *by* **Difference**

Sonepar Österreich GmbH
Gaudenzdorfer Gürtel 67
1120 Wien, Austria
T: +43 5 1706 60162
Email: licht@sonepar.at

stara

STARA Elektrogroßhandels G.m.b.H.
Fachabteilung Licht, Herr Andreas Malits
Autokaderstaße 31
1210 Wien, Austria
T: +43 1 699 26 19 432
Email: andreas.malits@stara.at

XAL

XAL GmbH
Auer-Welsbach-Gasse 36
8055 Graz, Austria
T: +43 316 3170 8000
Email: office@xal.com

ZUMTOBEL Group

ZG Lighting Austria GmbH
Wagramer Straße 19
1220 Wien, Austria
T: +43 1 258 26 01-0
Email: autled@zumtobelgroup.com

OUR IN-HOUSE WORKSHOP

From product design straight to application

Our carpentry workshop not only enables us to make customised solutions to order, but also brings experience and know-how from many of our own in-house projects. Many of our products originated directly from practical experience as we integrated unique lighting solutions into furniture making and interior design. On the following pages you will find some of the projects that have been implemented using our carpentry workshop.

AUTLED
We live light.

AUTLED

AUTLED QR CODES

Scan these QR codes for quick and easy access to our resources:

AUTLED Presentation Film

AUTLED Website

AUTLED Products and Downloads

AUTLED Catalogue and Brochure

AUTLED Services

AUTLED Useful Information

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