



ZUMTOBEL



Alpla Werke

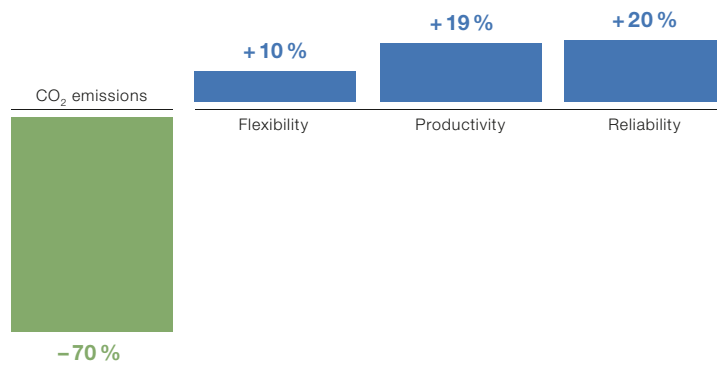
Light that improves performance: innovative LED systems deliver the quality and efficiency needed to achieve optimum and superlative performance.



Light as a quality factor

The tools used in the production plant of plastic packaging manufacturer Alpla are manufactured at the company's HQ in a 5 m high shop floor covering a floor space of 600 m². This is where Alpla's internationally successful high-quality products start their life, and the demands that this plastics specialist places on a bright and clean environment are correspondingly exacting. As Alpla has been relying on cool white lighting for 20 years now, they wanted to stick to this concept for the new LED lighting solution as well. As well as a colour temperature of 6,500 K designed to boost productivity, the TECTON LED continuous-row system boasts other convincing features: improved energy efficiency, higher levels of flexibility and additional reliability.

zumtobel.com/Industriallighting



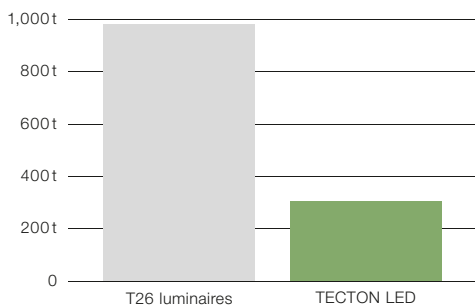
1. CO₂ efficiency and cost efficiency

-70%_{CO₂}

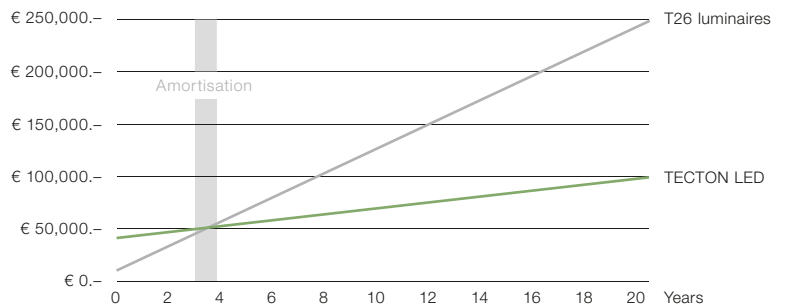
LEDs allow maximum efficiency

Annual energy consumption of the lighting installation after renovation is only 52.6 kWh per m², as opposed to 176.0 kWh per m² before. Compared to the T26 fluorescent lamps previously installed, power consumption is now significantly reduced so that the CO₂ reduction specifications required to obtain environmental certification are met. Simply switching over to an innovative LED solution will cut CO₂ emissions by 700 tonnes over the next 20 years. This means the lighting will pay for itself within 3.4 years thanks to reduced power consumption and maintenance work.

CO₂emissions over service life (20 years)



Payback period: 3.4 years (total cost)



2. Flexibility

+10 %

Flexible thanks to plug&play system with dimmable luminaires

TECTON luminaires are simply suspended from the trunking. One click is enough to make both mechanical and electrical connections. This means that the LED lighting modules can be relocated or rearranged quickly and easily at any time. If the layout of machinery changes, TECTON can therefore adapt quickly to suit the new requirements. Most of the activities currently carried out in Alpa's manufacturing workshop involve general visual tasks. 400 lx is the correct illuminance level for such tasks. With a maintenance illuminance level of 600 lx, this lighting solution is capable of coping with more demanding visual tasks. The fact that the luminaires are (DALI) dimmable makes the lighting solution more flexible. This includes the facility to integrate the luminaires into a lighting control system so that the lighting level can be reduced to a minimum at given times and in selected locations.

Clicks in anywhere as required: TECTON LED module



Many TECTON LED continuous-row luminaires bear the eco+ label for especially resource-friendly products. For more information on eco+, please visit www.zumtobel.com/eco zumtobel.com/eco

3. Productivity

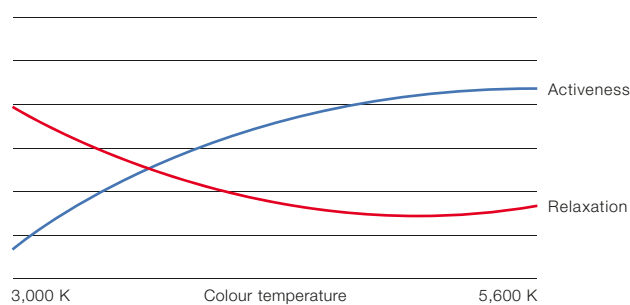


+ 19 %

Cool white light, uniform and with good glare control

A lighting solution that produces a cool white light colour is subtly perceived as being brighter. This explains why plastics processor Alpla with a workforce of approximately 14,000 in 149 branches uses luminaires with a colour temperature of 6,500 K. When it became time to refurbish toolmaking in Hard, a luminaire that boosted employee productivity with a highly uniform, cool white light colour was the only option that could be entertained. Zumtobel was able to demonstrate in advance the system's benefits in terms of quality by providing sample luminaires: despite LED and high illuminance levels, the TECTON LED continuous-row luminaire features good glare control.

Cool white light is stimulating



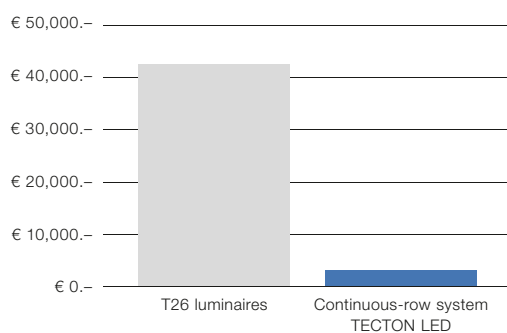
4. Reliability

+ 20 %

Maintenance-free lighting

By switching over to a TECTON LED continuous-row system, the customer is saving a considerable portion of its operating costs. Thanks to a service life of 50,000 hours (with a decrease in luminous flux down to 70 percent), frequent lamp failures and the associated maintenance work and lamp costs are now a thing of the past. Another benefit: the TECTON LED lighting system's luminaire design is compact and has a relatively small surface area on which dirt can deposit, which means it is easier to clean and needs less frequent cleaning.

Maintenance costs over service life (20 years)





ZUMTOBEL

United Kingdom

Zumtobel Lighting Ltd.
Chiltern Park
Chiltern Hill, Chalfont St. Peter
Buckinghamshire SL9 9FG
T +44/(0)1753 482 650
F +44/(0)1753 480 350
uksales@zumtobel.com
zumtobel.co.uk

USA and Canada

Zumtobel Lighting Inc.
17-09 Zink Place, Unit 7
Fair Lawn, NJ 07410
3300 Route 9W
Highland, NY 12528
T +1/(0)845/691 6262
F +1/(0)845/691 6289
zli.us@zumtobel.com
zumtobel.us

Australia and New Zealand

Zumtobel Lighting Pty Ltd
333 Pacific Highway
North Sydney, NSW 2060
T +61/(2)89135000
F +61/(2)89135001
info@zumtobel.com.au
zumtobel.com.au

China

Zumtobel Lighting China
Shanghai office
Room 101,
No 192 YIHONG Technology Park
Tianlin Road, Xuhui District
Shanghai City, 200233, P.R. China
T +86/(21) 6375 6262
F +86/(21) 6375 6285
sales.cn@zumtobel.com
zumtobel.cn

Hong Kong

Zumtobel Lighting Hong Kong
Unit 4319-20, Level 43,
Tower 1, Metroplaza,
223 Hing Fong Road,
Kwai Fong, N.T.
T +852/(0)2503 0466
F +852/(0)2503 0177
info.hk@zumtobel.com

India

Zumtobel Lighting GmbH
A 274, 1st Floor,
Defence Colony,
110024 New Delhi
T +91/98 102 19 531
enquiries.india@zumtobel.com

Singapore

Zumtobel Lighting Southeast Asia
5 Kaki Bukit Crescent,
#04-02 Koyotech Building
416238 Singapore
T +65 6844 5800
F +65 6745 7707
info.sg@zumtobel.com

United Arab Emirates

Zumtobel Lighting GmbH (Branch)
Dubai Airport Free Zone,
Building 6W, B Block, 233
PO Box 54302
Dubai
T +971/(0)4 299 3530
F +971/(0)4 299 3531
info@zumtobeluae.ae

Romania

Zumtobel Lighting Romania SRL
Tipografilor 11-15,
S-Park Office, Wing A1-A2
013714 Bucharest
T +40 312253801
F +40 312253804
welcome.ro@zumtobel.com
zumtobel.com

Hungary

Zumtobel Lighting Kft
Váci út 49
1134 Budapest
T +36/(1) 35 00 828
F +36/(1) 35 00 829
welcome@zumtobel.hu
zumtobel.hu

Croatia, Bosnia and Herzegovina

Zumtobel Licht d.o.o.
Radnička cesta 80 – Zagrebtower
10000 Zagreb
T +385/(1) 64 04 080
F +385/(1) 64 04 090
welcome@zumtobel.hr
welcome.ba@zumtobel.com

Serbia

Zumtobel Licht d.o.o.
Karadjordjeva 2-4
Beton Hala
11000 Belgrade
T +381/(0)11 65 57 657
F +381/(0)11 65 57 658
welcome@zumtobel.rs

Czech Republic

Zumtobel Lighting s.r.o.
Jankovcova 2
Praha 7
170 00 Praha
T +420/(2) 66 782 200
F +420/(2) 66 782 201
welcome@zumtobel.cz
zumtobel.cz

Slovak Republic

Zumtobel Lighting s.r.o.
Vlčie Hrdlo 1,
824 12 Bratislava
welcome@zumtobel.sk
zumtobel.sk

Poland

Zumtobel Licht GmbH Sp.z.o.o.
Platinum III
ul. Woloska 9a
02-583 Warszawa
T +48/(22) 856 74 31
F +48/(22) 856 74 32
welcome@zumtobel.pl
zumtobel.pl

Slovenia

Zumtobel Licht d.o.o.
Štukljeva cesta 46
1000 Ljubljana
T +386/(1) 5609 820
F +386/(1) 5609 866
welcome@zumtobel.si
zumtobel.si

Russia

Zumtobel Lighting GmbH
Official Representative Office
Skakovaya Str. 17
Bld. No 1, Office 1104
125040 Moscow
T +7/(495) 945 36 33
F +7/(495) 945 16 94
info-russia@zumtobel.com
zumtobel.ru

Norway

Zumtobel Belysning
Hoffsveien 4
Postboks 1025 Hoff
0218 Oslo
T +47 22 06 50 50
F +47 22 06 50 52
firmapost@zumtobel.com
zumtobel.no

Sweden

Zumtobel Belysning
Birger Jarlsgatan 57
11356 Stockholm
T +46 8 262650
F +46 8 265605
info.se@zumtobel.com
zumtobel.se

Denmark

Zumtobel Belysning
Indiavej 1
2100 København
T +45 35 43 7000
F +45 35 4354 54
info.dk@zumtobel.com
zumtobel.com

Headquarters

Zumtobel Lighting GmbH
Schweizer Strasse 30
Postfach 72
6851 Dornbirn, AUSTRIA
T +43/(0)5572/390-0
F +43/(0)5572/22 826
info@zumtobel.info

Zumtobel Licht GmbH
Grevensmarschstrasse 74-78
32657 Lemgo, GERMANY
T +49/(0)5261 212-0
F +49/(0)5261 212-7777
info@zumtobel.de

zumtobel.com



Top quality – with a five-year guarantee.

As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products subject to registration within 90 days from the invoice date and in accordance with the terms of guarantee at zumtobel.com/guarantee.

© Zumtobel Lighting GmbH
Technical data was correct at time of going to press. We reserve the right to make technical changes without notice. Please contact your local sales office for further information.