



Company introduction

- Brightek Optoelectronics is a Taiwanese-owned LED manufacturer. The company was founded in Shenzhen, China in 2001, and in 2009, its new headquarter and R&D centre were established in Taoyuang, Taiwan.
- In order to meet the high demand for optoelectrical products worldwide, Brightek has been developing all kinds of LEDs from PTH Lamp, SMD, Superflux, and High Power since 2001.
- The Brightek European office was set up in London, United Kingdom in 2007. With the aim to provide the best service without time difference between west and east, Brightek (Europe) is the best choice in the European market.



Company network

- Brightek Electronic Inc Taoyuang, Taiwan
 - Headquarter
 - Capitalisation: US\$11 millions
 - Product Development Centre
 - High Power LED & AC LED line
- Brightek Optoelectronics Shenzhen, China
 - Factory 1: Lamp LED line
 - Factory 2: SMD & High Power LED line
 - Factory 3: Application & Module line
- Brightek (Europe) Limited London, UK
 - European Headquarter (Brightek LED & StarChips IC)
 - Capitalisation: £200,000.00
 - German office in Berlin



Company culture

- Principle
 - Satisfying customers' requirements
- Spirit
 - Exploring, enterprising, practical & self-surpassing
- Belief
 - Green, efficiency, market-leading & perfection
 - Green
 - To develop energy saving LED
 - Efficiency
 - To offer efficient services to all customers
 - Market-leading
 - To be a leader in both domestic & international markets
 - Perfection
 - Pursuing ZERO defect in product quality



Development history

- 2001.11 Brightek founded
- 2002.03 Shenzhen Factory starts mass production
- 2002.09 LED Lamps capacity reached 10kk/month
- 2003.06 Extended in Asian and European market successfully
- 2003.09 Germany TUV QS9000/ISO9001 IQM certificate obtained
- 2004.03 LED Lamps capacity reached 30kk/month
- 2005.03 BSI ISO14001 International Environmental Management certificate obtained
- 2005.08 LED Lamps capacity reached 60kk/month
- 2006.04 SONY Green Partner certificate obtained
- 2007.02 Germany TUV ISO/TS16949 IQM certificate obtained
- 2007.03 LED Lamps capacity reached 80kk/month
- 2008.02 LED Lamps capacity reached 90kk/month
- 2008.02 UL QC080000 certificate obtained
- 2009.11 Brightek Group Headquarter was set-up in Taiwan
- 2010.02 LED Lamps capacity reached 120kk/month
- 2010.04 Prepare to be listed in the stock market in Taiwan in 2011.



Development plan in 3 years

Capacity:

- To increase to 400kk/month from current 120kk/month

• Products:

 To increase SMD, IRM, High power products from current dipthrough type LED, PCB RGB, Superflux, IR, PT and holders

• System:

To bring in MES (manufacturing execution system)

• Equipments:

To invest NT\$2 bn for new eutectic superflux/SMD machines

• Employees:

- To increase senior engineers to 15% from 8% of total employees

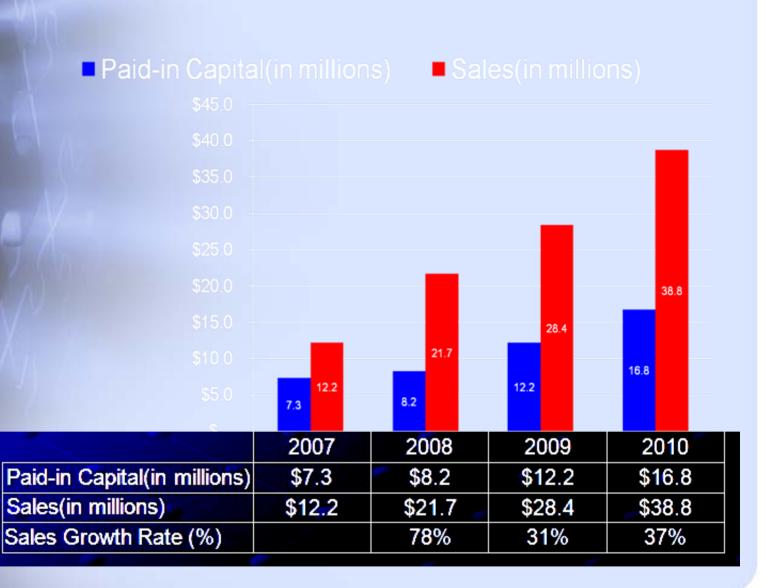
• Factory building:

To invest 2 billion Taiwan dollar to increase the factory to 37km²

Other perspectives:

To be listed in Taiwan stock market in 2011







Certificates

CERTIFICAT . CERTIFICADO TÜV SÜD 管理服務有限公司 TÜV IRIBAK . CEPTHONKAT 弘凱光電 (深圳)有限公司 中國深圳市賽安區沖井鐵新橋村第二丁豐區5班7梅 秀福: 518125 在以下有效範囲 建立和實施了質量管理體系 Altr LED發光二極管的製造 (含7.3章策產品設計) 通過審核、報告號:70053528 即甲醇糖系屬是 ISO/TS 16949: 2002 CERTIFICATE 第二版 2002-03-01 的要求 · 本證書的有效期是從2007-02-08至 2010-02-07 30:00 11 (10:00 to 12:00 to 13:00 to 13 . #31# 2007#02112611 MANY BANK TÜV SÜD Management Service GmbH • Zertifizierstelle • Riderstralle 65 • 80309 München • Germany





ISO/TS16949:2002

IECQ QC080000:2005

ISO14001:2004

LAMP Workshop









Auto die mounting station & eutectic bonding machines

- Our auto die mounting machines can perfectly avoid die mounting misalignment and ensure uniform light beam as well.
- Eutectic bonding machines can do die bonding directly without epoxy.
- Capacity: 12,000 pcs/hr



Auto wire bonding machines

- Our auto wire bonding machines' accurate loop controlling system contributes greatly to the perfect arc of gold wire inside LED. It also can cooperate with BBOS & BSOB system.
- Capacity: 14,000 pcs/hr



- Our encapsulation equipments are programmed to adjust parameters such as the curing temperature, insertion depth, and curing time according to the types of epoxy resin used. It greatly strengthen our product quality and consistency
- Capacity: 6,000PCS/H/Machine



SMD Workshop







SMD workshop

- All closed humidity and temperature control workshop, to meet dust level 10K standard, prepared good environment for the SMD production.
- Capacity: 12,000PCS/H



SMD packing machine



SMD binning machine

















- Bare chip tester & ETS 910 ESD simulator
- High precision surveying & drawing instrument



- Profile Projector
- X-Ray Compact

IPQC

- Pull force and ball shear testing machine
- Viewing angle instrument

DSC

- TA-DSCQ10
- S370 Tester

• FQC:

- CYT-T636 High precision testing machine
- IS Standard testing machine















Reliability test & standards



Condition: Temp:23±5°C I_F=20mA

Standard: JESD22-A108-A



Condition: $60-85^{\circ}C \pm 5^{\circ}C \ 20\text{mA}/30\text{mA}/50\text{mA} / 1000\text{h}$;

Standard: JESD22-A108-A

Thermal Shock

Condition: -45°C/30min~105°C/30min; 50Cycles

Standard: JESD22-A106

Permanent temperature & humidity test

Condition:H:+85°C/1H; RH:95%; L:-25°C/1H 50Cycles

Standard: JESD22-A101

Reflow Test

Condition: $190^{\circ}\text{C} \sim 280^{\circ}\text{C} \sim 180^{\circ}\text{C}$; 3min/2cycyles

Standard: JESD22-A106

Polishing Test











Lamp



3/5/8/10 mm Lamp



Oval Lamp



IR/RT Lamp







PT/IRM



High Power LED



0.5W



0.5W with Star



1/3/5W (2835/3535/5630/K1)



1/3/5W with Star



5/10/17W Light Bar Module

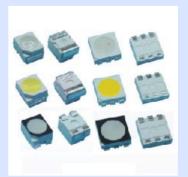


Superflux



3mm 5mm Flat Top

SMD



Chip LED	PLCC LED
0603	2121
0805	3020
1204	3528
1206	5050
2421	



And more...



Dot Matric



Channel Letter



LED Light Strip



Street Light (OEM)



Holder



Remoter Controller



LED driver



StarChips Technology (SCT)

Fabless design house with capital US\$5M has over 20 best selling models and 10 ASIC designs



Major Focus

Constant current driver ICs for (1) LED Display (2) LED Lighting (3) Customized design to best match your inquiries.

Fundamental Value

One-stop-solution for fastest time-to-market. Value-added to your selling kits and product features.

