



SMART SOLUTIONS TO DRIVE THE FUTURE

Optical Disc and Solar

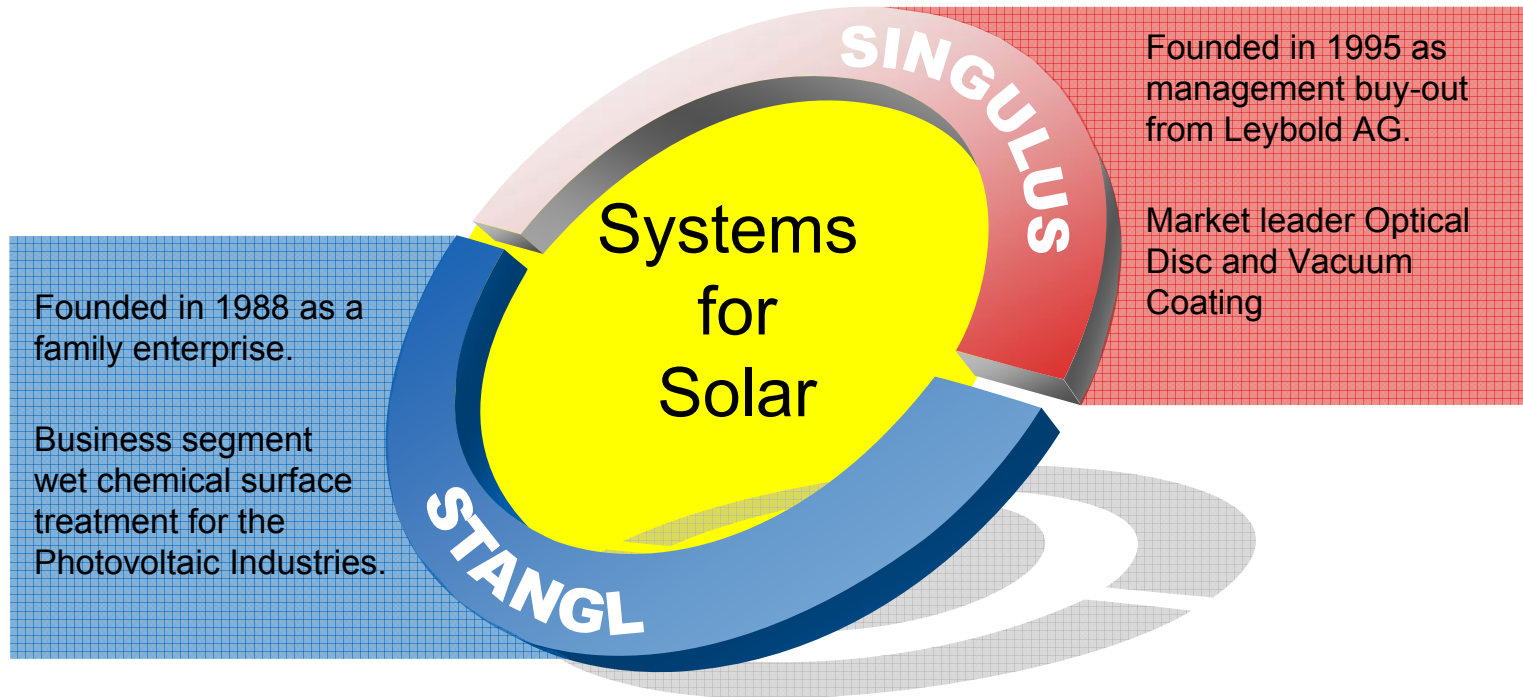
SINGULUS TECHNOLOGIES AG

SINGULUS 

Company Profile

SINGULUS TECHNOLOGIES Group

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Key Takeaways

- Evident growth potential in Optical Disc markets for Blu-ray
- Evident growth potential in Photovoltaic markets for Silicon cells and Thin Film cells
- SINGULUS and STANGL will jointly develop and supply new systems and processes for solar cell production
 - **Silicon cells**
 - **Thin Film cells**

Financial Overview

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in million €	Q1 2009	Q1 2010
Revenues	35.4	21.6
Order Intake	17.4	39.8
Order Backlog (31.03.)	52.2	45.6
EBIT	-4.9	-5.5
Profit Before Tax	-5.8	-6.8
Net Profit	-6.1	-5.7
Operating Cash Flow	-0.1	-4.6

Profit & Loss Statement

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in million €	Q1 2009	Q1 2010
Gross Revenue	35.4	21.6
Net Revenue	34.9	21.2
Gross Profit (in % of Net Revenues)	11.6 (33.2%)	6.9 (32.5%)
OPEX (Total)	-16.5	-12.4
- R+D	-3.8	-3.2
-Sales & Customer Service	-5.5	-4.7
-GM & A	-4.2	-3.8
-Other Income/Expenses	-0.1	-0.8
-Restructuring	-3.0	0.0
EBIT	-4.9	-5.5
Net Income	-6.1	-5.7
EPS (basic)	-0.16	-0.15

Balance Sheet

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in million €	2009	2010
Cash	15.2	31.4
Total Receivables	41.4	38.5
Total Inventories	57.7	58.7
Non Current Assets	139.6	135.2
Others	9.7	0.0
Total Assets	263.6	263.8
Total Current Liabilities	72.5	55.8
Total Non-Current Liabilities	23.0	30.6
Total Equity	165.7	177.4
Others	2.4	0.0
Equity and Liabilities	263.6	263.8

Cashflow Development

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in million €	Q1 2009	Q1 2010
Cashflow from Operating Activities	-0.1	-4.6
Cashflow from Investing Activities	-3.6	-1.2
Cashflow from Financing Activities	-5.1	19.8
Effect of Exchange Rate Changes	1.7	2.2
Total Cashflow	-7.1	16.2
Cash and Cash Equivalents at the Beginning of the Period	40.1	15.2
Cash and Cash Equivalents at the End of the Period	33.1	31.4

Employees

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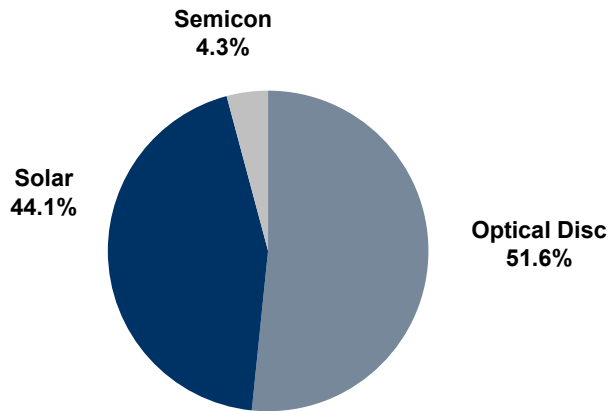
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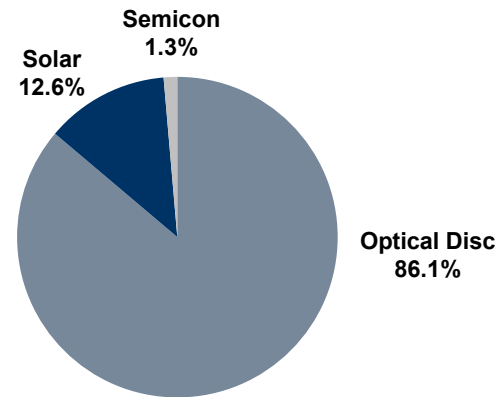
	Dec 31, 2009	Mar 31, 2010
HamaTech APE	85	0
STANGL	148	148
SINGULUS	339	335
SINGULUS Group	572	483
Domestic	418	357
Abroad	154	126

Sales Split by Products

Q1 2009

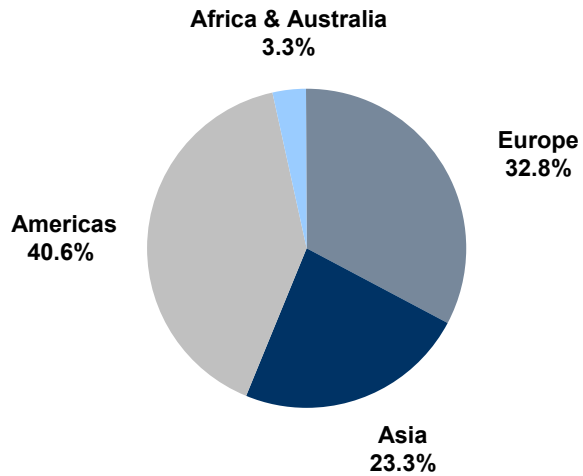


Q1 2010

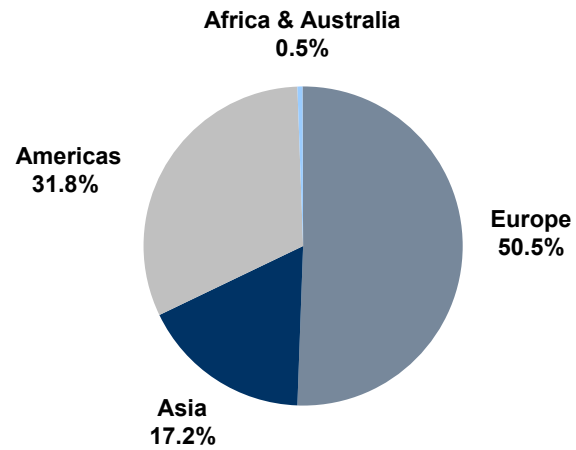


Sales Split by Region

Q1 2009



Q1 2010



Optical Disc: Minimum Future BD Pressing Capacity Requirements Worldwide

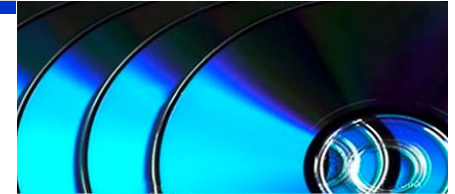
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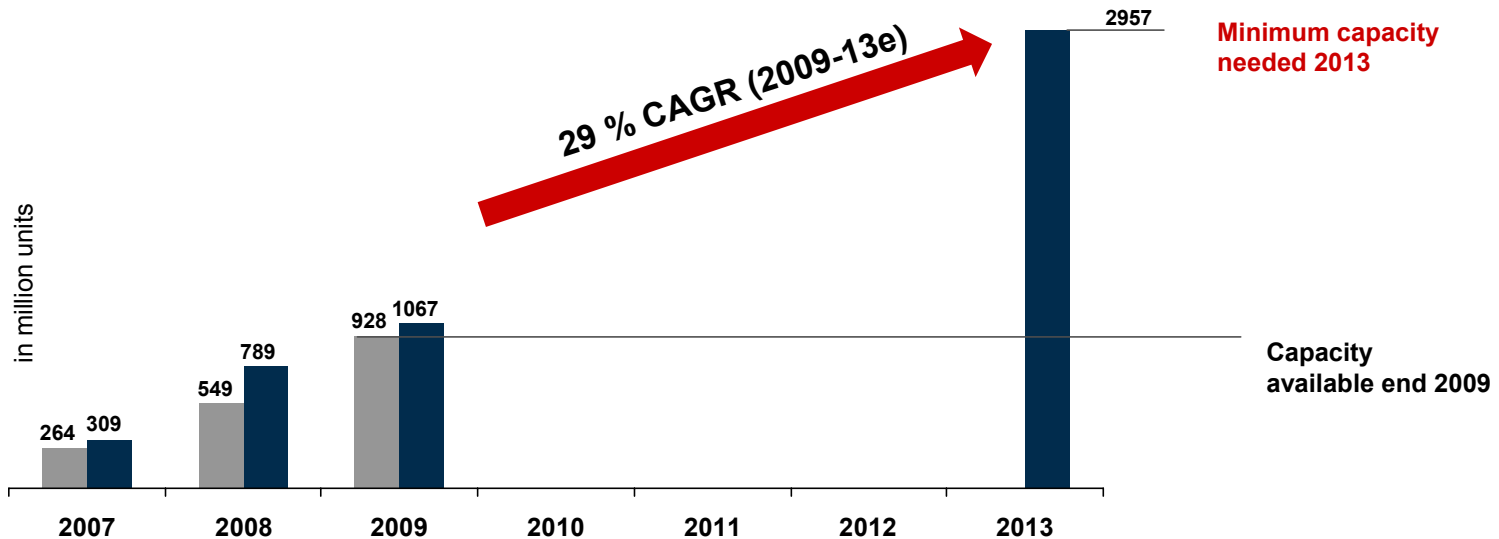
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Q 1 2010: + 71 % in Blu-ray Disc sales in USA (DEG)



■ Calendar Year Capacity Available ■ Year End Capacity



High Resolution 3D Movies

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- ➔ Killer application for Blu-ray
- ➔ AVATAR – start of the 3D boom

<http://www.bluray-3d.de>



The Total Solution for Optical Disc

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Mastering Systems

Molding Systems



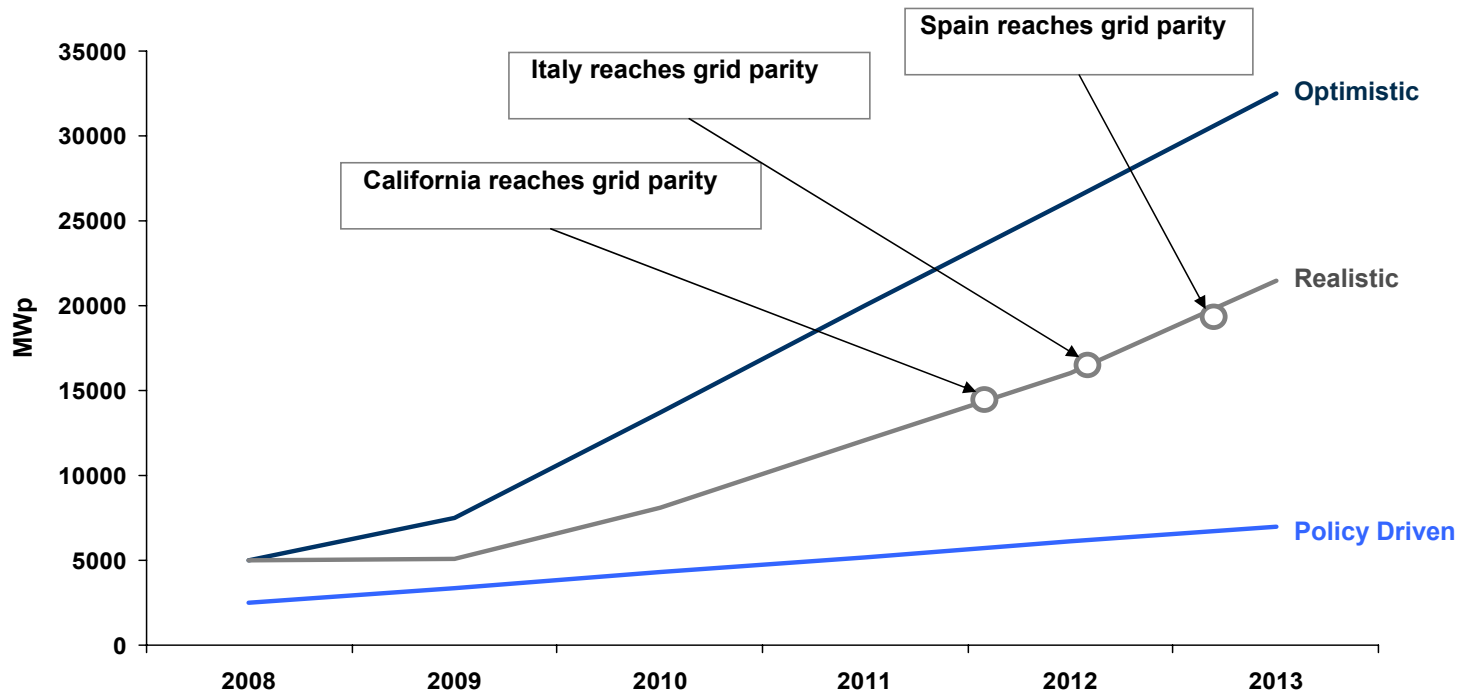
SKYLINE for CD

SPACELINE for DVD

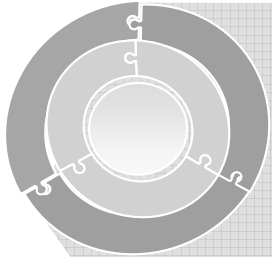
BLULINE for Blu-ray

Trend Towards Grid Parity

Photovoltaic demand forecast



Source: Yole Développement, September 2009



Product Portfolio Crystalline



**Raw Material Cleaning
Wafer Degluing/Cleaning**

**c-Si Cell Processing
Batch- & Inline System**

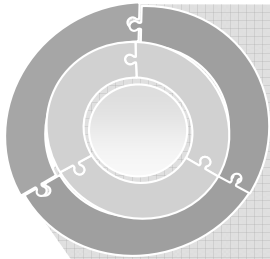
**Loading/un-Loading Systems
Automatization Systems**

SOLARE System for the Production of Si Solar Wafer

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SOLARE System for Batch Production of Silicon Wafers



SOLARE System for Inline Production of Silicon Wafers



TENUIS Experimental Set Up

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Experimental Set Up for Single Side Deposition of CdS or Alternative (e.g. ZnS) Buffer Layer on Glass or Flexible Material



VITRODODI

Thin Film & PV Modules Washing Solutions

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STANGL offers VITRODODI's product range MIRROR LINE, a new series of horizontal washing machines



Targets of SINGULUS TECHNOLOGIES 2010/2011

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Mid-Term Goals Optical Disc

- Leading Optical Disc equipment manufacturer worldwide
- Overcome entrance barriers for deliveries to Sony
- Follow-up Blu-ray development for 100 Gbyte and more

Mid-Term Goals Solar

- Leading supplier of production equipment for Silicon and Thin Film cells
- Enabler of mass production of new cell designs and manufacturing processes by lower cost of ownership and capital expenditures
- Leading position in systems business

Financial Targets

- Return to business growth 2010
- Break even on EBIT basis
- Substantial growth in sales and earnings 2011

Company Calendar 2010

- April 29, 2010 Q1 Report, Photon, Stuttgart
- June 2, 2010 General Annual Shareholder Meeting, Frankfurt
- August 3, 2010 Q2 Report
- November 5, 2010 Q3 Report

Investor Days

- April 29, 2010 PHOTON's 6th Photovoltaic Technology Show 2010 Europe
Stuttgart, Germany
- May 19, 2010 MEDIA-TECH 2010 Global Expo and Summit,
Forum, Messe Frankfurt, Germany
- September 9, 2010 25th European Photovoltaic Solar Energy Conference and
Exhibition Valencia, Spain

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