

Global and China Automotive Safety System Industry Report, 2009-2010



Traditional automotive safety system mainly refers to airbag and seat belt. The driver's airbag is installed on the steering wheel, and the airbag can only help while the occupant is wearing the seat belt, therefore, the main products of traditional automotive safety system manufacturers are airbag, steering wheel and seat belt, and airbag is the most important.

An airbag system mainly consists of electric devices and components including ECU, crash sensor (installed within ECU in centralized systems, and outside ECU in distributed systems), alarm device, airbag inflator and airbag cover, seat occupancy sensor, connectors and wiring harness.

Sensor and MCU (ECU core) are electronic products, and there is no airbag manufacturer capable of producing them. Veteran airbag manufacturers are capable of independently producing airbag inflators and airbag covers, while new entrants such as Jinheng and Mobis need to buy such products. Japan's Daicel and the United States' ARC Automotive are among the few airbag inflator manufacturers, and the United States' ITG is one of the few airbag cover manufacturers.

The airbag market potential is huge. Now, the majority of low-end auto models are equipped with two front airbags, middle-end models, with additional front side airbags, mid-to-high-end models, with additional front and rear air curtains, luxury models, with additional rear side airbags or knee airbags. While only luxury cars had front passenger seat airbags a decade ago, the cars sold at RMB50, 000 today are equipped with both driver and passenger airbags, front side airbags and front and rear air curtains. The number of airbags, especially the airbags for low-end auto models, is increasing, since people are always willing to pay for safety. It is expected that the average number of airbags per passenger vehicle will be 2.8 by 2013, and the total airbag demand will be five times higher than that in 2008.

In the meantime, the airbag industry is changing, and the entry barrier has become lower. It's no longer difficult to buy MCUs, sensors, airbag inflators and airbag covers, as well as to manufacture airbags. A number of airbag manufacturers have emerged, though holding market shares far less than that of veteran airbag manufacturers.

Key automotive safety system manufacturers include AUTOLIV, TAKATA, Toyoda Gosei, KSS and TRW. AUTOLIV, the leader in automotive safety systems field, dominates the markets in North America, Europe, Asia-Pacific, India and South America. It acquired Delphi automotive safety systems business at the end of 2009 to further consolidate its dominance.

TAKATA and Toyoda Gosei are the first choices for Japanese auto brands. TAKATA is affiliated to Toyota, but Toyota is not its biggest client. It became a supplier of BMW through the acquisition of Germany's Petri, and it's also the key supplier for Ford and Chrysler. Toyoda Gosei generally only supplies Toyota, TRW mainly supplies VW, GM, Ford and Chrysler, and KSS mainly supplies Ford and Fiat.

Revenue of Global Major Automotive Safety Systems Manufacturers, 2009-2010

	Revenue, 2009 (USD mln) Revenue, 2010 (USD n		
AUTOLIV	7347 8924		
TAKATA	3774	3780	
TRW	2904	3545	
Toyoda Gosei	1547	1350	
TOKAIRIKA	868	820	
Jinheng	143	160	
East Joy Long	31	31 40	
KSS	1008 1120		
Mobis	408	408 452	
Delphi	350		
Others	520	508	



Table of Contents

- 1. Automotive Safety System Overview
- 1.1 Overview
- 1.2 Airbag
- 1.3 Airbag Cover Raw Materials
- 1.4 Airbag Cover Weaving
- 1.5 Airbag Sensor
- 1.6 Airbag ECU & Airbag Work Process
- 1.7Active Seat Belt
- 2. Automotive Safety System Market
- 2.1 Global Market
- 2.2 China's Market
- 3. Automotive Safety System Industry
- 3.1 Airbag Industry Chain
- 3.2 Market Shares of Global Automotive Safety System Manufacturers
- 3.3 Relation between Global Auto Manufacturers and Automotive Safety System Manufacturers

- 3.4 China's Automotive Safety System Industry
- 4. Automotive Safety System Manufacturers
- 4.1 Autoliv
- 4.1.1 Autoliv (Changchun) Vehicle Safety Systems
 Co. Ltd
- 4.1.2 Nanjing Hongguang Autoliv Vehicle Safety Systems Co. Ltd
- 4.1.3 Autoliv (Shanghai) Vehicle Safety Systems
 Co. Ltd
- 4.1.4 Changchun Hongguang Autoliv Vehicle Safety Systems Co. Ltd
- 4.1.5 Autoliv (China) Steering Wheel Co. Ltd
- 4.2 TAKATA
- 4.2.1 Takata (Shanghai) Safety Systems Co., Ltd
- 4.2.2 Takata (Shanghai) Automotive Component Co., Ltd
- 4.3 TRW
- 4.3.1 TRW Fawer Automobile Safety Systems (Changchun) Co., Ltd



- 4.3.2 TRW Automotive Components (Shanghai) Co., Ltd
- 4.3.3 Shanghai TRW Automotive Safety Systems Co., Ltd
- 4.4 Toyoda Gosei
- 4.4.1Tianjin Toyoda Gosei Co., Ltd
- 4.4.2 Toyoda Gosei (Zhangjiagang) Technology Co.,
 Ltd
- 4.5 TOKAIRIKA
- 4.5.1Tianjin TOKAIRIKA Automotive Parts Co., Ltd
- 4.5.2 Wuxi Risho Technology Co., Ltd
- 4.6 Nihon Plast
- 4.6.1 Nihon Plast (Zhongshan) Co., Ltd
- 4.7 Jinheng Automotive Safety Technology Holdings
 Co., Ltd
- 4.8 EAST JOY LONG
- 4.9 KSS
- 4.9.1 Yanfeng Key (Shanghai) Automotive Safety Systems Co., Ltd
- 4.9.2 Tianjin Key Automotive Accessories Co., Ltd
- 4.9.3 Key (Huzhou) Safety Systems Co., Ltd
- 4.10 Mobis

- 4.10.1 Mobis Shanghai
- 4.11ARC Automotive
- 4.12 DAICEL
- 4.12.1 DAICEL Safety Systems (Jiangsu) Co., Ltd
- 4.13 Chongqing Guangda Industrial Co., Ltd
- 4.14 Tianjin Yizhong Auto Safety Belt Factory
- 5. Global Automobile Market
- 6. China's Automobile Market
- 6.1 China's Automobile Market Overview, 2010H1
- 6.2 China's Passenger Car Market, 2010
- 6.3 Commercial Vehicle Market, 2010 H1
- 6.4 China's Automobile Import & Export, 2010
- 6.5 China's Car Consumption Trend
- 6.6 China's Automobile Market Statistics, 2005-2010
- 6.7 China's Automobile Industry



- 5.10 Siping Blower
- 5.10.1 Profile
- 5.10.2 Technology Advantage
- 5.10.3 Operation
- 5.11 Chongqing General Industry(Group)
- 5.11.1 Profile
- 5.11.2 Operation
- 5.11.3 Development Strategy
- 5.12 Wuhan Blower
- 5.12.1 Profile
- 5.12.2 Operation

Selected Charts

- Typical Airbag Electronic Structure
- Active Seat Belt Electronic Structure
- China's Automobile Output, 2008-2013
- China's Passenger Vehicle Airbag Market Size, 2008-2013
- China's Passenger Vehicle Airbag Configuration Trend, 2008-2013
- Airbag Industry Chain
- Rank of Global Auto Electronics Semiconductor Manufacturers
- Market Shares of Global Automotive Safety System Manufacturers, 2009
- Market Shares of Global Automotive Safety System Manufacturers, 2010
- Ratios of Toyota Safety System Suppliers, 2009
- Ratios of Honda Safety System Suppliers, 2009
- Ratios of Nissan Safety System Suppliers, 2009
- Ratios of Ford Safety System Suppliers, 2009
- Ratios of GM Safety System Suppliers, 2009
- Ratios of VW Safety System Suppliers, 2009
- Market Shares of China's Main Auto Airbag Manufacturers, 2009
- Market Shares of China's Main Auto Airbag Manufacturers, 2010
- Market Shares of China's Main Auto Seat Belt Manufacturers, 2009
- Market Shares of China's Main Auto Steering Wheel Manufacturers, 2009
- China's Top 18 Automotive Safety System Manufacturers by Revenue, 2009
- Autoliv Revenue & Gross Margin, 2004-2010
- Autoliv Revenue & Operating Margin, 2004-2010
- Autoliv Quarterly Revenue & Gross Margin, 2008Q1-2010Q1



- Autoliv Revenue by Product, 2004-2010
- Autoliv Revenue by Region, 2007-2009
- Autoliv Client Structure, 2009
- Autoliv Client Structure, 1999
- Autoliv Cost Structure, 2005-2009
- Delphi Automotive Safety Systems Revenue by Client, 2009
- Delphi Automotive Safety Systems Revenue by Product, 2009
- Autoliv China Sales, 2000-2010
- Autoliv China Distribution
- Autoliv China Organizational Structure
- Autoliv China Client Distribution
- Autoliv China Revenue by Client's Country, 2009
- Autoliv China Client Distribution, 2009
- Revenue & Gross Margin of Autoliv (Changchun) Vehicle Safety Systems, 2004-2009
- Revenue & Operating Margin of Nanjing Hongguang Autoliv Vehicle Safety Systems
- Revenue & Operating Margin of Autoliv (Shanghai) Vehicle Safety Systems, 2004-2009
- Autoliv in India
- Autoliv in South America
- TAKATA Revenue & Operating Margin, FY2006-FY2011
- TAKATA Revenue by Product, FY2006-FY2011
- TAKATA Revenue by Region, FY2009- FY2011
- TAKATA Operating Profit by Region, FY2009- FY2011
- TAKATA Investment, FY2006-FY2011
- TAKATA Investment by Region, FY2011
- TAKATA R&D Investment, FY2006-FY2011



- TAKATA Client Distribution, FY2008-FY2010
- Revenue and Operating Margin of Takata (Shanghai) Safety Systems Co., Ltd, 2004-2009
- Revenue and Operating Margin of Takata (Shanghai) Automotive Component Co., Ltd., 2004-2009
- TRW Revenue & Operating Margin, 2004-2010
- TRW Revenue, 2008Q1-2010Q1
- TRW Operating Margin, 2008Q1-2010Q1
- TRW Revenue by Product, 2009
- TRW Client Distribution, 2009
- TRW Revenue by Region, 2009
- Revenue and Operating Profit of TRW Fawer Automobile Safety Systems (Changchun) Co., Ltd, 2006-2009
- Revenue, Operating Profit and Export Value of TRW Automotive Components (Shanghai) Co., Ltd., 2004-2009
- Revenue and Operating Profit of Shanghai TRW Automotive Safety Systems Co., Ltd., 2005-2009
- Toyoda Gosei Revenue & Operating Margin, FY2006-FY2011
- Toyoda Gosei Revenue by Product, FY2006-FY2011
- Toyoda Gosei Revenue by Region, FY2006-FY2011
- Toyoda Gosei Revenue & Operating Margin in Asia-Pacific, FY2006-FY2011
- Toyoda Gosei Equipment Investment & Depreciation Cost, FY2006-FY2011
- Toyoda Gosei R&D Investment Ratio, FY2006-FY2011
- Tianjin Toyoda Gosei Revenue & Operating Profit, 2004-2009
- Revenue & Operating Profit of Toyoda Gosei (Zhangjiagang) Technology
- TOKAIRIKA Revenue & Operating Margin, FY2005-FY2011
- TOKAIRIKA Revenue by Product, FY2008-FY2011
- TOKAIRIKA Revenue by Region, FY2009-FY2011



- TOKAIRIKA Revenue by Client, FY2009-FY2011
- Revenue & Profit of Tianjin TOKAIRIKA Automotive Parts Co., Ltd., 2006-2009
- Nihon Plast Revenue & Operating Margin, FY2005-FY2011
- Nihon Plast Revenue by Product, FY2005-FY2011
- Nihon Plast Revenue by Region, FY2005-FY2011
- Nihon Plast Operating Profit by Region, FY2005-FY2011
- Nihon Plast Client Distribution, FY2008-FY2011
- Revenue & Operating Margin of Jinheng Automotive Safety Technology Holdings, 2004-2010
- Revenue of Jinheng Automotive Safety Technology Holdings by Product, 2007-2009
- Revenue & Operating Profit of Shanghai East JoyLong Motor Airbag Co., Ltd., 2004-2009
- EAST JOY LONG Client Distribution
- Revenue & Operating Profit of Yanfeng Key (Shanghai) Automotive Safety Systems, 2004-2009
- Revenue & Operating Profit of Tianjin Key Automotive Accessories, 2004-2009
- DAICEL Revenue & Operating Margin, FY2005-FY2011
- DAICEL Revenue by Division, FY2008-FY2011
- DAICEL Profit by Division, FY2008-FY2011
- Revenue & Profit of Tianjin Yizhong Auto Safety Belt Factory, 2008-2009
- Global Light-duty Vehicle Output by Region, 2009-2016
- Global Truck Output by Region, 2009-2016
- Market Shares of Global Main Auto Manufacturers, 2009
- Sales of China's Key Auto Manufacturers, 2009-2010E
- New Auto Plans of China's Key Auto Manufacturers, 2010
- Revenue & Operating Margin of Global Major Automotive Safety System Manufacturers, 2009-2010



- Autoliv Output by Product, 2009
- Financial Data of Autoliv China Subsidiaries, 2008
- Export Value & Headcount of Takata (Shanghai) Safety Systems Co., Ltd., 2004-2009
- Revenue, Profit & Export Value of TRW China Subsidiaries, 2008
- Revenue, Operating Profit, Export Value & Headcount of Wuxi Risho Technology Co., Ltd., 2004-2009
- Revenue, Profit & Export Value of Nihon Plast (Zhongshan) Co., Ltd., 2004-2009
- Revenue & Profit of KSS China Subsidiaries, 2008
- Revenue & Profit of DAICEL Safety Systems (Jiangsu) Co., Ltd., 2008-2009



How to Buy

Product details			How to Order
	USD	File	By email: report@researchinchina.com
Single user	2,200	PDF	By fax: 86-10-82601570
Enterprisewide 3,300 PDF Publication date: July 2010			By online: www.researchinchina.com

For more information, call our office in Beijing, China:

Tel: 86-10-82600828

Website: www.researchinchina.com

