

Global and China Automotive Aluminum Wheel Industry Report, 2009-2010



2009 is a harsh year for most of automotive aluminum manufacturers, especially those targeting at North American market. At first, Hayes Lemmerz, the largest automotive wheel manufacturer in North America declared bankruptcy on May 11, 2009. Hayes Lemmerz had been suffering losses from FY2005 to FY2009, and the economic crisis became the last straw that forced it to file for bankruptcy protection on May 11, 2009. The total assets of Hayes Lemmerz valued US\$1.34 billion, the liabilities amounted to US\$1.41 billion, the sales value declined by almost 50% in 2009. Superior, the largest automotive aluminum wheel manufacturer in North America, also had a very difficult time, and its sales value fell by 45% in 2009.

Also in May 2009, Metaldyne, an aluminum wheel manufacturer headquartered in Michigan, declared bankruptcy. It was acquired by Asahi Tec, a Japanese manufacturer, with US\$215 million in 2006. Metaldyne's bankruptcy protection made Asahi Tec lost JPY31.97 billion as investment write-down, but did not affect the cash flow. As a result, the sales of Asahi Tec slumped by 74% in FY2009.

Some Chinese manufacturers also fell victim to the crisis, and Huatai Aluminum Wheel is among the most heavily hit. Totally engaged in the export to the United States, its Tai'an branch suffered sharp revenue decline in 2009. Moreover, it had accumulated huge debts during the high-speed expansion in the early stage. Eventually, it had to declare bankruptcy liquidation in March 2010. Most Chinese manufacturers of aluminum wheels provide products to the clients in China, Japan and EU, while small factories mainly export products to America.

China's automobile market developed rapidly in 2009, driving Chinese aluminum wheel manufacturers, especially large ones, to grow despite the market downturn. CITIC Dicastal increased its shipment by 22% to 14.38 million, securing its first place status by widening the gap with the runner-up. Singapore-listed Lizhong Wheel increased its revenue by 9% against the market trends. Lioho Machine Works, Taiwan's largest aluminum wheel manufacturer, achieved growth in income, shipment and gross profit margin.

In the EU, all aluminum wheel manufacturers are private enterprises, and they rarely publish their operation status to the public. RONAL and UNIWHEEL focus on the after-sales markets in Asia-Pacific, North America and the European Union, so they suffered bigger losses. BORBET aims at OEM market, with solid customer base, such as BMW, Volkswagen, Mercedes-Benz, Volvo and Ford that have excellent performance, so it suffered less. Japanese manufacturers have shifted most of their production bases to Mainland China and Southeast Asia, so the cost disadvantages are not prominent.

In 2009, the sales volume of Japanese manufacturers was considerable, particularly in China, so Japanese aluminum wheels manufacturers did better than North American and EU manufacturers.

In 2010, aluminum wheel manufacturers got explosive growth. The shipment of Superior reached 2.36 million in Q1 2010, up 69% compared with Q1 2009; its revenue grew even faster by 84%; it is expected that the growth rate in 2010 will be much higher than that in 2009. In December 2009, Hayes Lemmerz announced that it did not need bankruptcy protection any more. China's Lizhong Wheel had even more outstanding performance in Q1 2010; its revenue in Q1 2010 was 114% more than that in Q1 2009; its profit in Q1 2010 surpassed all of its profit in 2009.

China has strong advantages in the production of aluminum wheels. First, the labor costs are lower than that of private enterprises in European Union. Second, China is the world's largest alumina supplier, and has obvious advantages in alumina prices. Some wheel manufacturers set up factories in the vicinity of alumina manufacturers, such as Sanmenxia Dicastal; or alumina suppliers set up their own aluminum wheel factories, such as Chiping Xinfa. Third, China is the world's largest automobile market and vehicle production base, and most aluminum wheel manufacturers are near automobile production bases or ports to save logistics costs.

The EU's anti-dumping for aluminum wheels will not have much impact on China, because the EU market only accounts for 10% of the total aluminum wheel export of China, and the key market for Chinese manufacturers is North America. If the United States imposes anti-dumping measures, Chinese small and medium manufacturers of aluminum wheels will be struck heavily. In the long term, the United States will implement anti-dumping for aluminum wheels sooner or later, so relevant manufacturers should actively explore other markets to respond to potential risks.

Shipment of Global Aluminum Wheel Manufacturers, 2008-2009

(Unit: 1,000)

	2008	2009
DICASTAL	11800	14230
ENKEI	11500	8800
CMW	7500	7100
RONAL	9600	6500
BORBET	10500	9100
Lioho Machinery	10600	11800
SUPERIOR	10400	7160
HAYES LEMMERZ	8300	4900
Wanfeng Auto Wheel	7600	7900
UNIWHEEL	6500	4500
TOPY	6200	4100
Huatai	5900	2700
MOBIS	5500	6500
Jinfei	2300	3100
Lizhong	4800	6800
SUNGWOO	2200	2500
Dicastal Asahi Aluminum	3100	900
DONGHWA	6600	6900
Others	69800	55000

Table of Contents

- **1. Global Automobile Industry and Market**
- **2. China Automobile Industry and Market**
 - 2.1 Status Quo
 - 2.2 Brands
 - 2.3 Sales Volume
 - 2.4 Export
 - 2.5 Financial Status of Major Automotive Groups in China
- **3. Overview of Aluminum Automotive Wheel Technology**
 - 3.1 Manufacturing Methods
 - 3.1.1 Welding
 - 3.1.2 Casting
 - 3.1.3 Forging
 - 3.2 Magnesium-alloy Wheel
 - 3.3 Advantages of Aluminum-alloy Wheel
 - 3.4 Quality System and Certification for Aluminum-alloy Wheel
- **4. Aluminum Automotive Wheel Industry & Market**
 - 4.1 Global Aluminum Automotive Wheel Market
 - 4.2 Global Aluminum Automotive Wheel Industry
 - 4.3 Relationship between Global Aluminum Automotive Wheel Manufacturers and Automobile Manufacturers
 - 4.4 China Aluminum Automotive Wheel Industry & Market
 - 4.5 China Steel Wheel Industry
 - 4.6 Anti-dumping for aluminum wheel
- **5. Major Aluminum Automotive Wheel Manufacturers**
 - 5.1 CITIC Dicastal
 - 5.1.1 Qinhuangdao Dicastal Xinglong

- 5.2 Lizhong Wheel
 - 5.2.1 Tianjin Lizhong / Dicastal
 - 5.2.2 Qinhuangdao Dicastal Wheel
- 5.3 Zhengxing Wheel
- 5.4 Jinfei
- 5.5 Huatai
 - 5.5.1 Dongfeng Huatai (Tianmen)
 - 5.5.2 Huatai (Jiangmen)
- 5.6 Lioho Machinery
 - 5.6.1 Kunshan Liufeng Machinery
 - 5.6.2 Lioho Light Alloy (Kunshan)
- 5.7 Nanhai Zhongnan Aluminum Wheel
 - 5.7.1 FAW Zhongnan Baishan Aluminum Wheel (Hengju Aluminum)
- 5.8 Tianyang Aluminum Alloy
- 5.9 Wanfeng Auto Wheel
- 5.10 Durui Wheel
- 5.11 Shanghai Jinheli
- 5.12 Nanjing Huashun Aluminium Wheels
- 5.13 Surperior
- 5.14 Hayes Lemmerz
- 5.27 CMW
- 5.28 TOPY
- 5.29 ALCOA
- 5.30 Jingyuan Heavy Duty Machinery
- 5.31 Yongle Aluminum Wheel
- 5.32 Wuxi Zhenfa
- 5.33 Xiamen Minxing & Shanghai Guoxing
- 5.34 Wonder Kosei
- 5.35 FAWAY
- 5.36 Xingmin Wheel
- 5.37 Dongling Group
- 5.38 ASAHI TEC
- 5.39 DONGHWA

Selected Charts

- Output of Global Light Vehicles and Penetration Rate of Aluminum Wheels, 2006-2012
- Shipment of Global Aluminum Alloy Wheels, 2006-2012E
- Global Aluminum Wheel Market Scale, 2006-2012
- Geographical Distribution of Automotive Aluminum Wheel After-sale Market, 2008-2010
- Shipment of Global Aluminum Wheel Manufacturers by Region, 2008-2009
- Market Shares of Global Aluminum Wheel Manufacturers (by Shipment), 2008
- Market Shares of Global Aluminum Wheel Manufacturers (by Revenue), 2008
- Automotive Aluminum Wheel Suppliers of Toyota, 2008-2009
- Automotive Aluminum Wheel Suppliers of Honda, 2008-2009
- Automotive Aluminum Wheel Suppliers of Nissan, 2008-2009
- Automotive Aluminum Wheel Suppliers of General Motors, 2008-2009
- Automotive Aluminum Wheel Suppliers of Ford, 2008-2009
- Automotive Aluminum Wheel Suppliers of Volkswagen, 2008-2009
- Automotive Aluminum Wheel Suppliers of BMW, 2008-2009
- Automotive Aluminum Wheel Suppliers of Mercedes-Benz, 2008-2009
- Automotive Aluminum Wheel Suppliers of Hyundai, 2009
- Market Shares of Chinese Aluminum Wheel Manufacturers (by Revenue), 2008-2009
- Market Shares of Chinese Aluminum Wheel Manufacturers (by Shipment), 2008-2009
- Market Shares of Steel Wheel Industry, 2008
- Revenue & Operating Profit Margin of Lizhong Wheel, 2003-2010

- Subsidiaries of Lizhong Group
- Products of Lizhong Wheel, 2006-2009
- Revenue of Lizhong Wheel by Region, 2006-2009
- Production Capacity & Capacity Utilization of Lizhong Wheel, 2004-2010
- Share Structure of Wanfeng Auto Wheel
- Revenue & Operating Profit of Surperior Industries International, 2004-2008
- Shipment of SII, Q1 2006-Q1 2010
- Revenue & Gross Profit Margin of SII, Q1 2008-Q1 2010
- Revenue & Operating Profit Margin of Hayes Lemmerz, FY2005-FY2010
- Revenue of Hayes Lemmerz by Country
- Operating Profit & Operating Profit Margin of UBE, FY2001-FY2009
- Revenue of UBE by Region, FY2004-FY2008
- Revenue of UBE by Product, FY2007-FY2009
- Operating Profit of UBE by Product, FY2007-FY2009
- Revenue & Operating Profit of UBE's Aluminum Wheels, FY2006-FY2009
- Global Distribution of BORBET
- Shipment of BORBET, 1996-2008
- Revenue of BORBET, 2001-2008
- Client Structure of BORBET
- Revenue & Operating Profit of Youfa Group, 2004-2009
- Revenue of Youfa from Distribution and Manufacturing Businesses, 2004-2009
- Revenue Distribution of YHI by Region, 2005-2009
- Revenue & Operating Profit of TOPY, FY2004-FY2009
- Revenue of TOPY by Product, FY2008
- Revenue & Gross Profit Margin of FAWAY, 2005-2011
- Revenue & Gross Profit Margin of FAWAY, Q1 2009 –Q1 2010

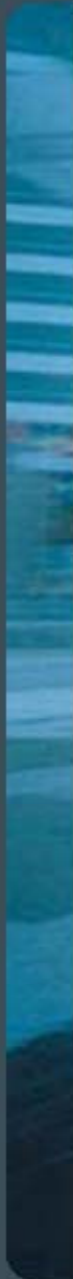
- Stake Structure of Xingmin Wheel before IPO
- Revenue & Net Profit of Xingmin Wheel, 2006-2009
- Production Capacity of Xingmin Wheel by Downstream Application, 2006-2009
- Downstream Revenue Distribution of Xingmin Wheel, 2006-2009
- Production Capacity of Xingmin Wheel, 2007-2011
- Gross Profit Margin of Xingmin Wheel by Product, 2006-2009
- Revenue of Xingmin Wheel by AM/OEM, 2006-2009
- Gross Profit of Xingmin Wheel by Product, 2006-2009
- Product Prices of Xingmin Wheel, 2006-2009
- Cost Structure of Xingmin Wheel, 2009
- Top 16 Aluminum Wheel Manufacturers in the World by Shipment, 2008
- Top 16 Aluminum Wheel Manufacturers in the World by Revenue, 2008
- Clients of Chinese Aluminum Wheel Manufacturers
- Ranking of 45 Chinese Aluminum Wheel Manufacturers by Income, 2008
- Financial Data of CITIC Dicastal, 2004-2009
- Financial Data of Qinhuangdao Dicastal Xinglong, 2004-2009
- Financial Data of Sanmenxia Dicastal, 2004-2007
- Financial Data of Qinhuangdao Dicastal, 2004-2007
- Financial Data of Zhengxing Wheel Group, 2004-2007
- Financial Data of Zhengxing Wheel (Chengdu), 2004-2007
- Financial Data of Zhengxing Wheel (Benxi), 2004-2007
- Financial Data of Jinfei Machinery, 2004-2007
- Financial Data of Dongfeng Huatai (Tianmen), 2004-2007
- Financial Status of Dongfeng Huatai (Tianmen), 2007
- Financial Data of Huatai (Jiangmen), 2004-2007
- Financial Data of Kunshan Liufeng Machinery, 2004-2007



- Financial Data of Lioho Light Alloy (Kunshan), 2004-2007
- Financial Data of Changfeng Lioho, 2006-2007
- Financial Data of Nanhai Zhongnan Aluminum Wheel, 2004-2007
- Financial Data of Hengju Aluminum, 2002-2004, 2007
- Members of Wanfeng Auto
- Financial Data of Wanfeng Auto, 2004-2007
- Revenue, Cost & Operating Profit Margin of Wanfeng Auto Wheel by Product, 2007-2008
- Cost Structure of Wanfeng Auto Wheel, 2007-2008
- Cost Structure of Wanfeng Auto Wheel, 2008-2009
- Revenue & Operating Profit of Weihai Wanfeng Auto, 2006-2008
- Revenue & Net Profit of Ningbo Orwell, 2006-2008
- Financial Data of Shenyang Durui, 2004-2007
- Financial Data of Shenyang Sanhua Durui, 2004-2007
- Financial Data of Shanghai Jinheli, 2004-2007
- Shipment of Superior Industries International Attributable to 3 Large American Automakers, 2006-2008
- Automobile Models Supported by Superior Industries International
- Global Presence of Hayes Lemmerz
- Financial Data of Enkei Aluminium Industry (China), 2004-2008
- Financial Data of Dongfeng Suizhou Wheel Factory, 2004-2007
- Financial Data of Jiangsu Yuantong, 2004-2007
- Financial Data of Guangzhou Zhongjing, 2006-200
- Revenue and Operating Profit in Automobile, Motorcycle and Construction Machinery Parts Sectors, FY2004-FY2009
- Global Wheel Production Bases of TOPY
- Financial Data of Dicastal Asahi Aluminum, 2005-2009



- Revenue and Operating Profit Margin of Dicastal Asahi Aluminum, FY2004-FY2009
- Revenue and Operating Profit of Dicastal Asahi Aluminum by Division, FY2008-FY2009
- Revenue of Dicastal Asahi Aluminum by Region, FY2008-FY2009



How to Buy

Product details			How to Order
Single user	USD 2,900	File PDF	By email: report@researchinchina.com
Enterprisewide	3,900	PDF	By fax: 86-10-82601570
Publication date: June 2010			By online: www.researchinchina.com
For more information, call our office in Beijing, China:			
Tel: 86-10-82600828			
Website: www.researchinchina.com			