IMA News

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Below are articles and summaries of magnesium related stories. IMA Member companies are asked to distribute the update to their employees and if their employees wish to receive the monthly IMA News issues, please send their email addresses to the IMA World Headquarters. The IMA appreciates all member company press releases and announcements for inclusion in the monthly IMA News issues.

INDUSTRY CALENDAR

IMA Events

June 1 – 3, 2014  IMA 71st Annual World Magnesium Conference
Westin Grand München
Munich, Germany

Industry Events

March 26 – 27, 2014  Global Automotive Lightweight Materials Asia
Shanghai, China

April 22 – 24, 2014  3rd International Conference and Exhibition
"Magnesium - Broad Horizons"
St. Petersburg, Russia

April 23 – 24, 2014  Global Automotive Lightweight Materials 2014
London, UK

Detroit, Michigan, USA

Orlando, Florida, USA

September 22 – 24, 2014  NADCA Die Casting Congress & Tabletop
Milwaukee, Wisconsin, USA

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ASSOCIATION NEWS

Join U.S. for the 71st Annual World Magnesium Conference in Munich, Germany – 
*Program at a Glance!*

2014 Awards of Excellence and Environmental Responsibility Award – *Deadline Extended!*

IMA Member Conference Discounts Available:
- Global Automotive Lightweight Materials Asia
- 3rd International Conference and Exhibition "Magnesium-21/Broad Horizons"

Articles follow below

INDUSTRY NEWS

IMA Members Only: March Magnesium Review from Metal-Pages

New American Lightweight Materials Innovation Institute Expands Obama’s National Network of Manufacturing Innovation

Spartan Light Metals: Don Jubel Gift Will Create New Home for WUSTL’s Department of Mechanical Engineering & Materials Science

Articles follow below

EUROPE NEWS

FinnvedenBulten Divests its Swedish Aluminium Business, Increased Focus on Magnesium

Western European 2014 Sales Forecast Revised Upwards

European Car Market Could Drive Magnesium Growth

Articles follow below

ASIA NEWS

IMA Members Only: China Magnesium Industry and Market Bulletin

Article follows below

EDITOR’S NOTE: IMA makes every possible effort to substantiate the articles which appear in the Update. However, as this is not always possible IMA does not warrant the details nor accuracy of any given article. Please keep in mind that materials are attained through press releases, outside articles from numerous sources and publications. Such materials often contain opinions which are not that of the association nor should they be construed as such. We realize that in the case of some materials, the translations might often lead to less than perfect grammar, etc. It is our position however to print as submitted rather than take upon ourselves the editing of such materials which would entail potential changes unwanted by any given author.
ASSOCIATION NEWS

Join us for the 71st Annual World Magnesium Conference in Munich, Germany –
Program at a Glance!

The 71st Annual World Magnesium Conference which will be held from June 1 – 3, 2014 at the Westin Grand München, Munich, Germany.

New this year! This year’s conference will have two tracks of technical presentations from which to choose on the afternoon of Monday, June 2. After the morning sessions attendees will enjoy lunch and visiting with exhibitors and attend the track of choice in the afternoon.

Don’t forget to register by March 31 to receive a $200 discount. The IMA group rate at the Westin Grand expires on Friday, April 11.

Truly international in scope, this unique gathering successfully blends association business, presentations of papers featuring the latest industry technical innovations and business market developments, recognition of the 2014 Awards of Excellence and Environmental Responsibility Award winners and participants, networking opportunities and social activities.

Please visit the conference website at www.IMAworldconference.org to get all the conference details including speakers, travel, lodging and registration information, the exhibition floor plan and booth availability as well as sponsorship opportunities.

2014 Awards of Excellence and Environmental Responsibility Award – Deadline Extended!

Please support the IMA Awards program by entering your own company’s award nomination or by inviting your colleagues to submit an entry. The deadline for Award entries has been extended to Friday, March 28, 2014.

The International Magnesium Association annually honors several organizations through its awards program. The IMA awards program features the Awards of Excellence and Environmental Responsibility Award.

Winning entries will be recognized during the IMA’s 71st Annual World Magnesium Conference, June 1 - 3, 2014 in Munich, Germany. Winners will receive plaques and have their entry prominently displayed throughout the entire Conference.

IMA Member Conference Discounts Available:

Global Automotive Lightweight Materials Asia

The IMA has been invited to partner with the Global Automotive Lightweight Materials (GALM) Initiative that takes place March 26 – 27, 2014 in Shanghai, China.

With increasingly stringent CO2 emissions targets in Asia, Europe and USA, OEMs around the world are rapidly developing strategies to drive the development of low cost, high volume lightweight solutions and improve manufacturing capabilities to reduce material cost, ensure quality supply and create more fuel efficient vehicles on a global platform.

It is the mission of the Global Automotive Lightweight Materials Asia 2014 to drive down the cost of attaining, designing and applying lightweight materials including high strength steel, aluminium, magnesium and composites, to enable the mass production of lightweight, fuel efficient vehicles in Asia.

IMA Members can join this exclusive event as GALM brings together OEMs, Material Suppliers and Tier 1s to assess current capabilities and future strategies being developed to drive the development of low cost, high volume lightweight vehicles on a global platform.
Please note that Dr. Zisheng Zhen, Technical Director Asia, Magontec Xi'an Co., Ltd. and IMA Member, will be among the presenters at the event.

As an IMA Member, you can claim a 15% discount on the advertised rates. To claim this offer, please email info@london-business-conferences.co.uk or call ++ 44 (0)20 7033 4970.

3rd International Conference and Exhibition "Magnesium-21/Broad Horizons"

The IMA has been invited to partner with the 3rd International Conference and Exhibition "Magnesium-21/Broad Horizons" that takes place April 22 – 24, 2014 in St. Petersburg, Russia.

The goal of the coming Forum is to thoroughly discuss the status and the main tendencies of the present market of magnesium and its alloys and to demonstrate the latest achievements in science and technology.

Taking into account the results of the previous Conferences the Organizing Committee is confident that the Forum will raise great interest in the professional circles and will attract companies specializing in magnesium production and application, producers of equipment and raw materials, and major consumers of these products.

Please note that IMA President, Prof. Dr.-Ing Karl Kainer, Head of the Magnesium Innovation Center MagIC, Helmholtz-Zentrum Geesthacht, and Mr. Martyn Alderman, Director of Technology, Magnesium Elektron and IMA Member, will be among the presenters at the conference.

As an IMA Member, you can claim a 7% discount on the advertised rates. To claim this offer, please email Ms. Olga Feskova at conference2@alusil.ru or by phone at +7 (495) 785 20 05.

INDUSTRY NEWS

IMA Members Only: March Magnesium Review from Metal-Pages

The Chinese magnesium metal market has weakened further recently as producers try to boost cash flow in a bid to offset losses from coal sales, industry sources told Metal-Pages. “A lot of magnesium metal producers in Shaanxi are also coal miners, but their coal business has shrunk as the central government started to cut coal use to reduce PM10 and PM2.5 emissions,” a trader from Liaoning said.

A Shanxi-based producer source reported that production costs have fallen due to weaker ferro-silicon prices. A trader from Shanghai told Metal-Pages that export business has been better than domestic sales as March is the traditional busy month. Magnesium metal prices touched rock bottom at RMB14,500/tonne last July.

Chinese exports of unwrought magnesium (minimum 99.8%) jumped more than 59% year-on-year to about 21,700 tonnes last month, according to industry sources this week. January exports were up more than 5% in January this year from the month before, Chinese Customs data showed in reports.

The top ten export destinations in January were the Netherlands at more than 8,000 tonnes and then Japan second at some 2,200 tonnes. Greece at around 725 tonnes, Germany at 695 tonnes and Norway at about 550 tonnes were other European destinations. Chinese export of magnesium powder, granules and chips increased more than 50% year-on-year to some 9,300 tonnes in January, and up more than 41% from December last year.

It comes as demand for metal is firm and is expected to improve heading into the traditionally busier second quarter when consumers in the automotive and extruder sectors usually ramp output. “Producers are pretty well sold for the year and they’ve been successful in long-term deals,” said one trader.

A supply crimp is set to be exacerbated as overseas producers in countries like Russia and Kazakhstan are supplying less material into the US market this year. Another trade source said that there was no Russian metal imported in December and January, but a small quantity of about 80 to 100 tonnes was offered in February around the bottom end of the range.

“Volumes usually improve in the second quarter and we’re very optimistic on the auto side as emissions regulations are forcing more car makers to use aluminum.” He added that the can sheet and extruder
sectors continue to show signs of stability, with the extruder side set to pick up in the second quarter as construction activity gathers paces in the warmer spring months.

The European magnesium market has also dropped recently as suppliers have tried to trigger some activity amid slow business from the secondary aluminium sector, with the outlook for further weakness until mid-March, industry sources said. "It is looking a bit sluggish really," one source said. "Having been so quiet for so long, market suppliers are trying to tempt some business in Europe."

Sources said there was little sign of a major shift in consumer demand this year, from 2013. "Consistent demand it looks like this year," another source said. Magnesium stocks are steadily building in Europe and key supplier China.

Major consumers are not expected back to the market until mid-March, sources said, when some should be buying material ahead of their production runs in the next quarter, typically the busiest time of the year in northern hemisphere heavy industry.

The US magnesium industry has cautiously welcomed news that Alliance Magnesium Inc. plans to build a pilot plant in the Asbestos region of Canada. The Quebec-based company, which has developed a patented electrolysis clean technology for the production of magnesium from serpentine rock, unveiled plans this week to construct a pilot project that will be the first step towards eventually operating a plant with a production capacity of 50,000 tonnes a year of metallic magnesium.

It is understood that Alliance Magnesium will look to supply into Canada, the US, Mexico and Europe and target consumers across several end-user markets including automotive and can sheet.

For the latest magnesium news and prices visit www.metal-pages.com. To subscribe at the special IMA membership rate, email Metal-Pages at info@metal-pages.com.

New American Lightweight Materials Innovation Institute Expands Obama’s National Network of Manufacturing Innovation

American workers have the drive, the creativity, and the determination to out-innovate the rest of the world.

The American Lightweight Materials Innovation Institute (ALMMII), the newest center in the President’s National Network of Manufacturing Innovation, was announced today at a White House event. The public-private institute is being launched as part of a federal initiative to help U.S. manufacturers become more competitive and encourage investment in the United States.

Co-founded by EWI, University of Michigan and The Ohio State University, ALMMII will open its doors in spring 2014. The new facility, headquartered in the Metro Detroit area, will focus on developing advanced lightweight metal manufacturing technology for transition to the industrial sector.

The goal of the new institute will be “to expand the market for and create new consumers of products and systems that utilize new, lightweight, high performing metals and alloys by removing technological barriers to their manufacture,” the White House said.

Both government and industry recognize that using lightweight production materials is increasingly important for enhancing the performance of our country’s defense, transportation, and energy systems, as well as strengthening our work force. Senator Sherrod Brown of Ohio expressed full confidence and support for the launch. "American workers have the drive, the creativity, and the determination to out-innovate the rest of the world," he said. "By developing innovative partnerships among the DoD, research institutions like The Ohio State University, and industry organizations like EWI, we ensure that American workers and businesses have the resources they need to develop the next generation of high-tech manufacturing Industries. This type of investment helps rebuild our nation's manufacturing sector while creating new jobs and strengthening our middle class."

Senator Carl Levin of Michigan commended the manufacturing strengths of the ALMMII region. “ALMMII will take advantage of the world-class infrastructure already present in Detroit and Southeast Michigan and will tap the potential of cutting-edge research and educational programs in the region. It will help develop important new technologies to protect our troops and our nation, and help bring those new technologies to commercial markets,” he said.

“Through this initiative, our region will build on its core strengths to become the nation’s technology hub for lightweight materials and manufacturing,” University of Michigan President Mary Sue Coleman concurred.
In addition to the three founding institutions, the ALMMII consortium includes more than 50 companies, universities, non-profit research institutions, and workforce development intermediaries. The institute is actively seeking more partners to join its team.

Ohio State President Joseph A. Alutto hailed the opportunity to contribute to the endeavor. “We are proud to be working with such an outstanding founding group in establishing this important national institute, which will bring together resources from industry, government, and academia to enhance the region’s competitiveness, create opportunities for students, and generate economic growth,” he said.

The ALMMII team was selected through a competitive process led by the US Department of Defense under the Lightweight and Modern Metals Manufacturing Innovation (LM3I) solicitation issued by the US Navy’s Office of Naval Research. The Institute will receive $70 million in federal funding matched by another $78 million from the consortium partners.

“The mission of ALMMII is to ensure that the US is the world leader in the application of innovative lightweight metal production and component/subsystem manufacturing technologies,” said EWI President and CEO Henry Cialone. “ALMMII will focus on the total value chain for lightweight materials – rapid development, qualification, optimized use, and commercialization of affordable lightweight structures for defense and commercial requirements.”

Source: www.prweb.com (25-Feb-2014)

Spartan Light Metals: Don Jubel Gift Will Create New Home for WUSTL’s Department of Mechanical Engineering & Materials Science

A major commitment by Donald Jubel, on his family’s behalf, to honor his late parents will provide the impetus for the next phase of physical expansion for Washington University in St. Louis’ School of Engineering & Applied Science.

When built, the Henry A. and Elvira H. Jubel Hall will be a first-class facility housing the Department of Mechanical Engineering & Materials Science, the school’s second-largest major, and allow for critically needed space for the projected influx of faculty, researchers and students.

It also will become the nucleus for campus-wide collaboration involving multidisciplinary research to promote the convergence of biomechanics, materials science and nanotechnology — research that will address the unprecedented challenges in such industries as energy and aerospace.

Jubel, who graduated from the school in 1973 with a bachelor's degree in mechanical engineering, made the commitment through the Henry A. Jubel Foundation. The foundation was established in honor of his father, a 1940 graduate of the school.

“With this very generous and important gift, Don and Karen Jubel pay tribute to both their family and to Washington University,” said Chancellor Mark S. Wrighton, adding:

“Their generosity and desire to help others are rooted in the values upheld by Henry Jubel, who understood the importance of a good education and overcame considerable odds to matriculate at Washington University. Don and his family are carrying these values forward to help others achieve their dreams of a Washington University education, and prepare them for tomorrow’s global challenges.”

Source for full article: www.spartanlmp.com (14-Feb-2014)

EUROPE NEWS

FinnvedenBulten Divests its Swedish Aluminium Business, Increased Focus on Magnesium

FinnvedenBulten has, as part of the ongoing restructuring of the foundry business in the Finnveden Metal Structures division, signed an agreement to sell the division’s Swedish aluminium business in Finnveden Gjutal AB. The buyer is International Aluminium Casting Sweden AB, which operates with aluminium die-casting in Sweden and Estonia.
“Our strategy within Finnveden Metal Structures is to offer a unique combination of sheet metal stamping and magnesium die-casting to meet the need for weight reduction in the automotive industry. The sale of the aluminium business is an important part of the ongoing restructuring program and streamlining of the die-casting operation where all magnesium die casting is concentrated to one focused foundry located in Poland. At the same time we are pleased that the aluminium operation can continue with new owners having aluminium die casting as their main business,” says Johan Westman, President and CEO of FinnvedenBulten.

The divested aluminium business and additional restructuring costs are expected to lead to a positive net contribution to the operating profit amounting to around SEK 10 million during Q1 2014. The transaction is expected to be completed in March 2014 provided that certain conditions are met.

The effects from the total program are expected to generate approximately SEK 30 million in improved earnings compared with the outcome in 2012. The full effect is expected to be seen from the second half of 2014 after the transferred magnesium business has been tuned in into the Polish foundry.

Source: [www.finnvedenbulten.com](http://www.finnvedenbulten.com) (05-Feb-2014)

**Western European 2014 Sales Forecast Revised Upwards**

Six consecutive months of year-on-year growth in western European car sales has some market watchers revising their sales forecasts upwards.

"The outlook for 2014 is for a solid improvement of 3 percent on the previous year, with potential upside if the German and Spanish markets can sustain recent form," Jonathon Poskitt, LMC Automotive’s head of European sales forecasting, said in a commentary on the February results.

LMC’s new forecast is up marginally on its full-year view from January of a 2.7 percent sales increase, but the change suggests that LMC is now optimistic that 3 percent should be the minimum growth that can be expected.

"Following a weaker seasonally adjusted annualized rate (SAAR) in January -- itself a consequence of the strong finish to 2013 -- the February selling rate headed in the right direction once again, climbing to 11.9 million units a year," Poskitt said.

For western Europe as a whole, car sales grew by 5 percent in February compared with the same month in 2013. That’s the same level of growth recorded in the first month of this year.

**Big changes**

However, there were significant changes in country performances over the two months.

In Germany February sales grew 4.3 percent, lower than the 7.2 percent increase recorded in the first month of the year. However, allowing for seasonal factors, the SAAR gained momentum, rising from 5.6 percent in January to 6.3 percent. Because of Germany’s healthy labor market and rising real wages Poskitt said “the outlook appears bright for the region's largest market.”

In Italy, where sales rose 8.6 percent in February compared with the same month of 2013, sales so far this year are running 5.9 percent ahead of last year. But the SAAR still indicates that sales for the full year will be down 1.1 percent. Poskitt explained this paradox to Automotive News Europe by pointing out that in the opening months of 2013 the SAAR for Italy averaged just 1.2 million units a year, got a little stronger over the following four months, and then tailed off again. "In other words, the Italian car market was desperately weak at the start of last year and so the start of 2014 looks, comparatively, somewhat better," he told Automotive News Europe in an e-mailed reply to questions.

In Spain, where February sales surged by 17.8 percent following strong 7.6 percent growth in January, the SAAR suggests there will be a full-year improvement of 7.8 percent.

UK car sales showed their 24th monthly increase in a row. The selling rate there has been slowing in recent months, as has the rate of year-on-year improvement. However, Poskitt points out, February is seasonally weak because registrations tend to be held off until the March registration plate change. "With low unemployment, low interest rates and a strongly improving economy, the environment remains supportive for a further solid improvement for 2014 as a whole," he said in his commentary.
Of the major markets, France remains of greatest concern. It was the only one to record a year-on-year decline last month. LMC believes that any meaningful growth in car sales in France will likely be postponed until employment prospects there improve.

Source: www.europe.autonews.com (11-Mar-2014)

European Car Market Could Drive Magnesium Growth

Higher forecasted sales of European automobiles, all requiring inputs like magnesium, titanium, chrome and cadmium, could help grow the market for magnesium in 2014, according to recent media reports.

Automotive News Europe reports that after a six-year slump, Europe's battered car market is finally coming around, with vehicle sales expected to increase by up to 3 percent this year, although with deep price discounts.

“The rebound will bolster the industry's bottom line, particularly for automakers such as Fiat and PSA/Peugeot-Citroen that are most exposed to the deep recession in southern Europe,” the publication writes.

Source: www.resourceinvestingnews.com (09-Jan-2014)

ASIA NEWS

China Magnesium Industry and Market Bulletin

China Magnesium Output: Up 10.2% in 2013

Data from the China Magnesium Association (CMA) said output of primary magnesium in China stood at 770kt in 2013, up 10.2%; magnesium alloy, 207.5kt, up 43.5%; and magnesium powder, 132.9kt, up 13.3%, with capacity of primary magnesium at 1540kt.

Shaanxi province ranked first in terms of output, 43.5% of national total, followed by Shanxi province, 39.6%. Two provinces accounted for 83.1% of national total, down y-on-y.

A survey by Sunlight Metal shows outputs for both primary magnesium and alloy, owing to many factors, are higher than actual, and real growth rate should be lower than official data. Market participants take rational attitude.

China Consumed 351.5kt of Magnesium in 2013

Data from the China Magnesium Association (CMA) indicated China consumed 351.5kt of magnesium in 2013, up 13.4% and an historic high.

Year 2013 saw faster growth in both aluminum semis and sponge titanium outputs, and magnesium consumption in metallurgical industry kept uptrend. Of 240kt of consumption in metallurgical sector, 68.3% of domestic total, 88kt oriented to aluminum alloy, 32kt to steel desulfurization, 28kt to nodular cast iron, 85kt to sponge titanium, and 7kt to rare earth magnesia. 104.6kt of magnesium, 30% of domestic total, was applied to Magnesium alloy, and remaining 7kt to other sectors.

Sunlight Metal believes that, if given the data in 2012, magnesium alloy sector should consume more magnesium but its demand in 2013 seemed in doldrums and only rose by 8kt.

Export of Magnesium Products by Regions in 2013

Data from China Customs shows that 2013 saw magnesium products exporting to 83 countries and regions. Holland ranked top, and up to 113.4kt, 27.6% of total in China. Key destinations included Europe, Japan, Canada, India and South Korea.

In total, 212.1kt of primary magnesium located in 61 countries and regions (Hong Kong and Taiwan included); 102kt of magnesium alloy in 43 countries and regions (Taiwan included); and 85.4kt of magnesium powder in 38 countries and regions (Taiwan included).
### Top 10 Countries and Regions for Magnesium Ingot

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### Top 10 Countries and Regions for Magnesium Alloy

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### Top 10 Countries and Regions for Magnesium Granular/Powder

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Large Alternation in Exporters: Strange and Doubtful

In 2013, China exported 187kt of magnesium ingot, up 11.7%, with average price at 2782$/t, down 11.1% y-on-y, while export of magnesium alloy hit 91.7kt, up 0.13% but 4.32% lower as per average price. Against declining export benefit and fierce market competition, export price continues to drop down. Sunlight Metal believes great alternation in exporters took place either for magnesium ingot or magnesium alloy, and most exports were contributed by new exporters.

Data and information collected by Sunlight Metal, show that, of the top 20 exporters for either magnesium ingot or magnesium alloy in 2013, 9 exporters didn’t run magnesium business in 2012 but joined in 2013. Furthermore, of 200 plus exporters for magnesium ingot in 2013, 75% of them never engaged in magnesium export in 2012, and these exporters account for 60% of total export in 2013. Of 150 plus exporters for magnesium alloy, 100 plus of them were new players contributing over 40% of total export. Sunlight Metal believes above pattern is doubtful to great extent. In fact, compared with year 2011, year 2012 saw over 60% of ingot export coming from new exporters, and over 40% of alloy export from new players. What more doubt is that new exporters for both ingot and alloy who joined in 2012 almost came off stage in 2013, that is, most of exports in 2013 were done by new exporters.

Magnesium, as traditional raw material, has a history of over 20 years for export, and this great reshuffle in exporter portfolio never happens before. It is abnormal and strange. These new exporters sells magnesium at not lower price than traditional exporters, then why they come into and go out of the market so fast? And how do they make profit?

Some domestic producers tell Sunlight Metal that more competition lie ahead for both magnesium ingot and alloy in recent 2-3 years. Some foreign customers claim they can locally buy cheap ingot and alloy from China, and goes so lower the price by which normal trading is unpractical. Some end-users, on the one hand, still continue to order magnesium products from authenticated suppliers and credit standing exporters, however, they, on the other hand, further drive purchase price down owing to locally lower price. And these factors exert negative pressure on magnesium price, bringing about lower export price and domestic price. All magnesium industry runs with meager profit and even at a loss.

Without substantial evidence, we fail to find out the necessary relationship between the large alternation in exporters and current market condition, however, they are really related to the great extent. Sunlight Metal believes the alternation should come from tax evasion, and speculation. Much possibly, it is through illegal collaboration by both domestic exporters and foreign importers.

Some magnesium insiders, from the point of healthful market order and industry benefit, apply to Chinese Customs, State Administration of Taxation, and Ministry of Commerce of PRC, for relevant investigation. Sunlight Metal suggests end users of magnesium industry should be cautious toward supply chain and avoid supply risk.
**Substantial Growth in Magnesium Export in January 2014**

January 2014 saw large scale growth in export, with magnesium ingot at 21732t, up 59.2%: alloy at 12595t, up 73.4%; powder at 9305, up 50.4%; semis at 490t, up 24.2%, and article at 476t, up 95.2%.

Overall growth in export, in Sunlight Metal’s opinion, was powered by spring festival with many orders from foreign customers, and record low price, 10% lower y-on-y, as happened in January.

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Source: China Customs

**Liaoning Province initiates Liaoning Magnesium Alloy Engineering Centre**

On January 20, 2014, Liaoning Magnesium Alloy Engineering Centre came on stage in Dashiqiao.

With its members from Northeastern University, Chinese Academy of Sciences’ Institute of Metal Research (Shenyang), Shenyang University of Technology, and Dalian University of Technology, the Centre intensifies efforts in magnesium alloy R & D and promotion. To transfer scientific researches into actual operation, the Centre also join Huachen Jinbei Automobile and Yingkou Xinli Refractory Sci. & Tech.

The Centre in 2014 will complete the R & D of alloy extrusion and electro-magnetic cast rolling with pilot test; and realize 5 green magnesium alloy plants. The coming 3 years will see the Centre equip Liaoning with unique and large scale production chain of auto alloy parts and military articles.

**Hongxing Magnesium Targets 16kt of Output in 2014**

On stream in 2008, Hongxing Magnesium, by unique natural resources in Xinjing, embarks on the production of magnesium ingot and alloy through waste coke gas. It operates with cyclic economy, energy saving, emission reduction, large scale and professionals.

According to its GM, the company, aiming to improve product quality, invested, from H2(2013), 19 mln. yuan on the update, and realized production of full capacity. For 2014, it will produce 16kt of magnesium and 250kt of semi coke.

**30kt/a of Magnesium Ingot and Alloy Project on Stream by Qinghai Sunglow**

Upon its update In 2013 by Fengrui Magnesium, subordinate to Qinghai Sunglow Group, the brown production line comes on stream in Feb.2014, with 30kt/a of primary magnesium, 10kt of calcium and 20kt of high-purity magnesium powder.

Energy efficiency improves through integral update in key technology and equipment. The company intensifies its product chains from raw material, energy and downstream, and is also the first producer for high-quality calcium in Qinghai Province.

**Jinxing Magnesium Updates Product Portfolio**

Jinxing Magnesium launches the production of high-purity magnesium ingot, and high-electric potential sacrificial anode.

High-purity ingot, with stable quality, finds markets in both aerospace and medical industries, while sacrificial anode, oriented to anti-corrosion and special uses, meets int’l advanced level in terms of electrochemistry.
Jinsheng Magnesium Puts No. 1 Phase Project into Trial Operation

From late 2013 to early 2014, Jinsheng Magnesium facilitates the equipment debugging, and brought on the trial operation the semi coke, magnesium alloy and ferrosilicon projects.

Jinsheng Magnesium, wholly owned and commissioned in Hami, Xinjiang by Dunan Holding, through abundant dolomite, silica and coal resources in Xinjiang, boasts the capacities of 50kt/a of magnesium alloy, 50kt/a of ferroalloy, and 600kt/a of semi coke, with residual heat-driven power and wall material facilities. Following the trial operation of magnesium alloy, ferroalloy and semi coke projects on December 11, 2013, Jinsheng Magnesium is intensifying debugging procedures for early regular operation.

Our correspondents said Dunan Holding commissioned Sun Magnesium in Ningxia and Jinshi Magnesium in Inner Mongolia. By late 2014, three smelters will give over 70kt/a of capacity, and make Dunan Holding the leading producer from the point of capacity.

BAIC Motor Plans to Develop Auto Magnesium Parts

At a recent magnesium conference, Mr. Sun Boyuan, Institute of Beijing Automotive Group CO., Ltd. Autos (BAIC), presented an application of magnesium in auto. In the report, he made proposals on the application of magnesium in autos, and also said BAIC Motor will develop magnesium alloy parts for auto industry:

The first parts include power steering pump, generator bracket, air conditioning compressor bracket, rear end plate, back shell and engine mounting bracket.

The second parts cover steering column bracket, brake pedal bracket, seat frame, instrument panel beam and door inner panel. While the third part are decklid, fender, back door wheel and engine hood.

New Heat Resistant Magnesium Alloy Comes Off in Chongqing

Recently, Chongqing Academy of Science & Technology announced the development of high-temperature and creep resistant magnesium alloy for motorbike industry. The alloy, with excellent property, has 229MPa of tensile strength, 156MPa of yield strength and 5.2% of extensibility at room temperature, and also owns $6.9 \times 10^{-9}/s$ of steady creep speed after 100 hours at 175°C and 50MPa. Against AZ91 alloy, this new alloy performs better but with AZ91 equivalent casting and corrosion resistant properties and 15% lower cost than AZ91.

Based on this progress, comes on stream a pilot line of alkaline earth alloy with 200kt/a of capacity. Prosperous future lies for this alloy in Chongqing’s autos and motorbikes. Upon its industrial operation, it will add momentum to the lightweight trend in relevant vehicles, and ring about substantial economic and social benefits.