

# Hiho Group

## Presentation



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# Group Overview

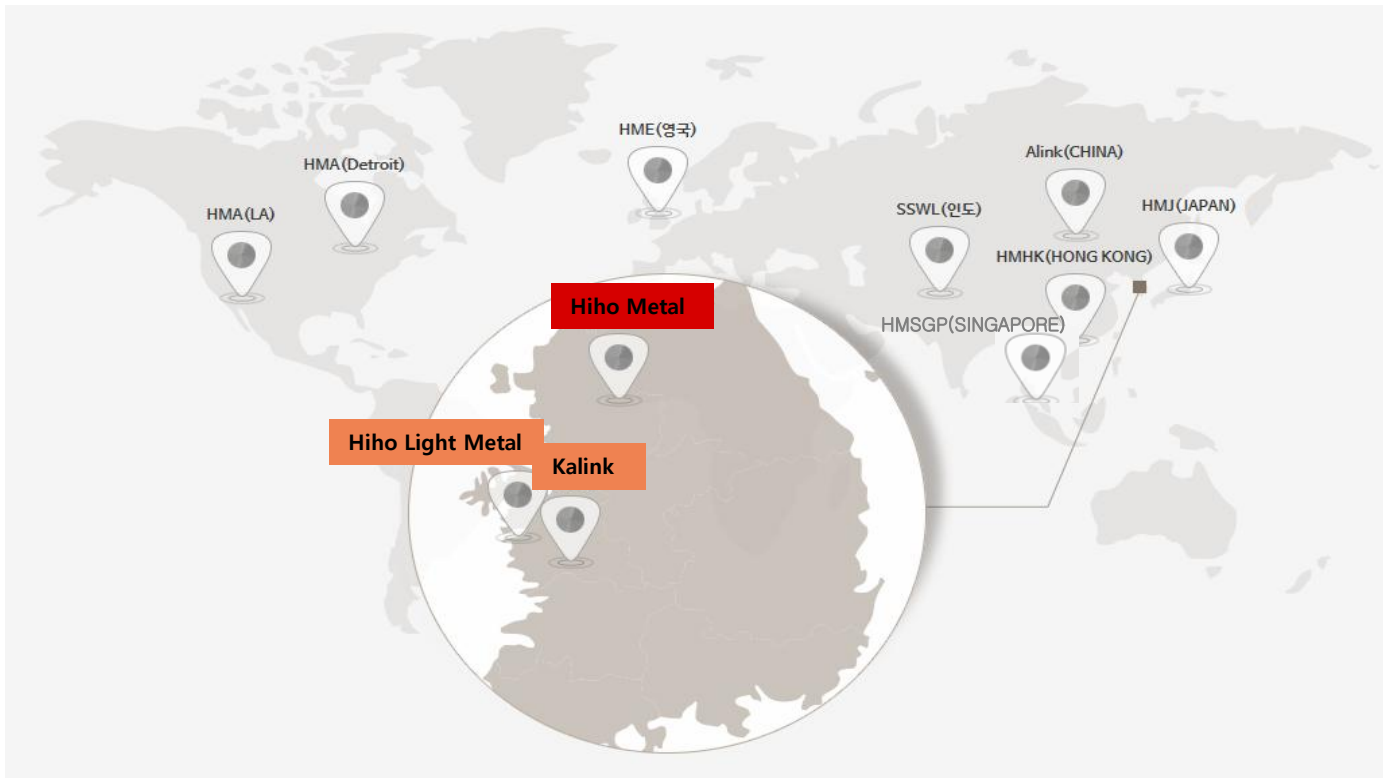


# Group Overview

(Unit: USD Million)

Item	Establishment Date	CEO	Business Field	Capital	Executives & Employees	Location	2018 Sales Amount
	Oct. 2003	Ho Dong Chull	Non-metal trading	4	36	Gangnam-gu, Seoul City	1,184
 HIHO LIGHT METAL CO., LTD	Oct. 2007	Shin Wang Gon	Aluminum Alloy Manufacturing	8.8	162	Gunsan City, Jeollabuk-do	451.9
 <small>(주) 칼링크</small>	June 2000	Shin Wang Gon	Al wheel Manufacturing Plant	6.4	275	Gimjae City, Jeollabuk-do	119.4
	Nov. 2007	Pyo Kyoung Cheon	Al wheel manufacturing	78.3	869	Lianyungang, China	378.3

# Group Overview



## Domestic Corporation

<b>Hiho METAL</b>	<input type="radio"/>
<b>HL</b> HIHO LIGHT METAL CO., LTD	<input type="radio"/>
<b>Kalink</b> (주) 칼링크	<input type="radio"/>

## Grobal corporation

<b>Alink</b>	<input type="radio"/>	<b>Hiho METAL America</b>	<input type="radio"/>
<b>Hiho METAL Japan</b>	<input type="radio"/>	<b>Hiho METAL Europe</b>	<input type="radio"/>
<b>Hiho METAL HongKong</b>	<input type="radio"/>	<b>Hiho METAL Singapore</b>	<input type="radio"/>

# Business



## TRADING

Import and export of industrial aluminum

- Primary Ingot
- Primary Alloy
- Secondary Alloy



## CASTING

Alloy production

- Al Billet
- Al Ingot



## RECYCLING

Alloy production

- Al Scrap



## PLANT

Overseas export of alloy wheel production equipment and operation technology (SSWL, India)



## Al Wheel

Automobile wheel manufacturing  
- Alloy Wheel

# Vision

Strives for the world's best.

Aluminum businesses through mine development, smelting and production of final product

**Global Business Leader**



Enhanced competitiveness  
In the global stage

Mine development

Raw material production

Import & Distribution (Hiho Metals)

Manufacturing (intermediate goods)

Manufacturing (end items)

Maximization of  
the value creation



**Globalization & Localization**

# Hiho Metal

Company Name	Hiho Metal Co. Ltd
Establishment Date	Oct. 13 <sup>th</sup> 2003
Name of CEO	Ho Dong Chull
Business Fields	Non-metal trading
Address	8F, Nonhyeon Building, 556, Gangnam-daero, Gangnam-gu, Seoul
Telephone No.	02) 514-6671
Facsimile No.	Sales: 02) 514-6425 Management: 02) 514-6489
Homepage	www.hihometal.com



Dec. 2018	Sales amount of USD 1,184 million (Ordinary profit of USD 16.5 million)
Apr. 2018	Established Hiho Metal Singapore Branch (HMSGP)
Apr. 2015	Established Hiho Metal Hong Kong Branch (HMHK)
Dec. 2012	Acquire Alink
Oct. 2012	Established Hiho Metal Japanese branch (HMJ)
Dec. 2010	Acquire Kalink
Dec. 2008	Established Hiho Metal HME
Oct. 2007	Established Hiho Light Metal
Sept. 2007	Designated as Outstanding Corporate for Foreign Exchange Risk Management (SMBA)
Nov. 2006	Designated as Management Innovative SME (SMBA)
Oct. 2003	Established company



# Business

We've grown into a representative company in the field of non-metal distribution based on distinct professionalism and know-how.



## Business Sector

Primary Aluminum is imported from China then supplied to domestic rolling, pressing, wiring companies.

## Products

- Primary Aluminum
- Aluminum Billet
- Primary Al Alloy(A356.2, mastery alloy types)
- Secondary Al Alloy(ALDC12, 10 etc.)
- Wheel
- Scrap

## Purpose

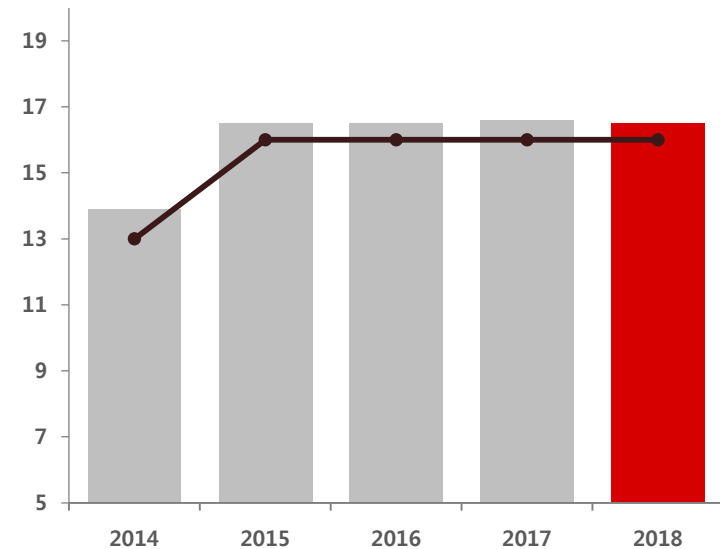
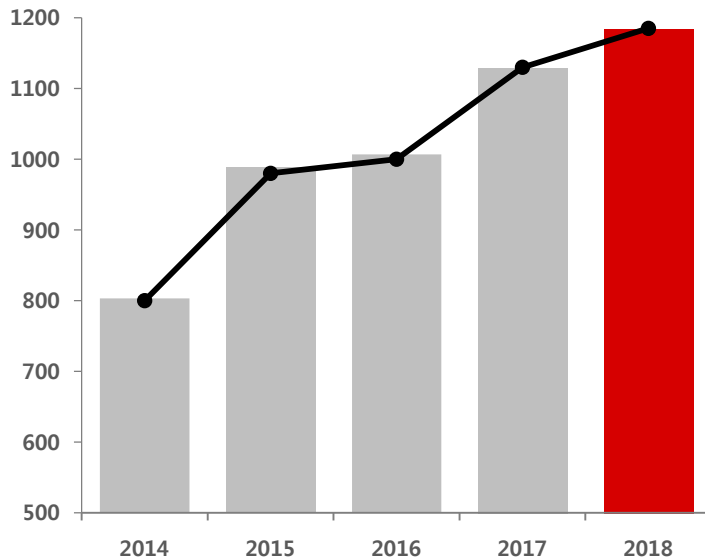
- Supplying to rolling/pressing/alloy/wheel manufacturing companies and others

# IR Information

## Sales Amount

Unit : USD million

2014	2015	2016	2017	2018
803.4	988.9	1,007	1,129	1,184



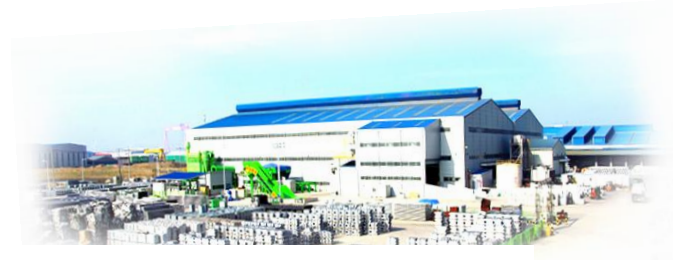
## Ordinary Profit

Unit : USD million

2014	2015	2016	2017	2018
13.9	16.5	16.5	16.6	16.5

# Hiho Light Metal

Company Name	Hiho Light Metal Co. Ltd
Establishment Date	Oct. 24 <sup>th</sup> 2007
Name of CEO	Shin Wang Gon
Business Fields	Aluminum alloy manufacturing
Address	133, Saemangeumbuk-ro, Gunsan City, Jeonbuk
Telephone No.	063) 472-1800
Facsimile No.	Sales: 063) 472-1940    Management: 063) 472-1999
Homepage	www.hiholme.com



## History

Dec. 2018	Sales amount of USD 451.9 million
Mar. 2014	Good taxpayer commendation (Ministry of Strategy and Finance)
Dec. 2011	Sales amount of USD 313.9million
Jan. 2011	Patent application for the manufacturing method of alloy ingot
Dec. 2010	Acquired INNO-BIZ
Oct. 2010	Awarded with USD 100 million Venture Company Award
Dec. 2009	Capital increased by USD 4.3 million (USD 7.8 million after increase) Established affiliated research center
Mar. 2009	Certified as venture company
Nov. 2008	Acquired ISO/TS 16949:2002    ISO 9001:2000 ISO 14001
Oct. 2007	Established company

# Business

## Business Sector

### Al Billet

- 1000 : Electrical/Air handling/chemical/food processing
- 3000 : Kitchen appliances/plate/Can Body
- 5000 : Vessel/welded structure/pressure container
- 6000 : For architecture/structure

### RECYCLING

- Al scrap production

Implementation of environment-friendly business

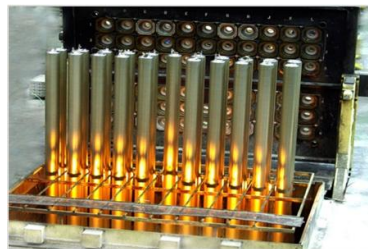
(Implementation of Al Scrap recycling)



## Production Process



Smelting furnace



Wagstaff casting machine



Continuous homogeneous reactor



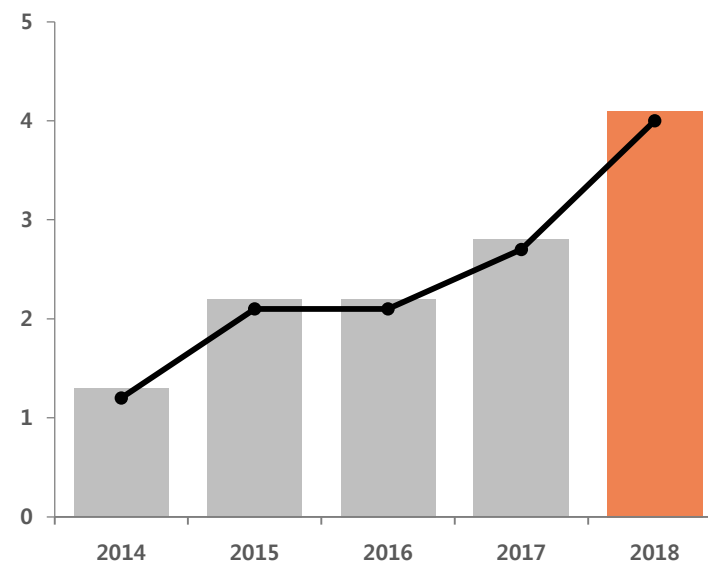
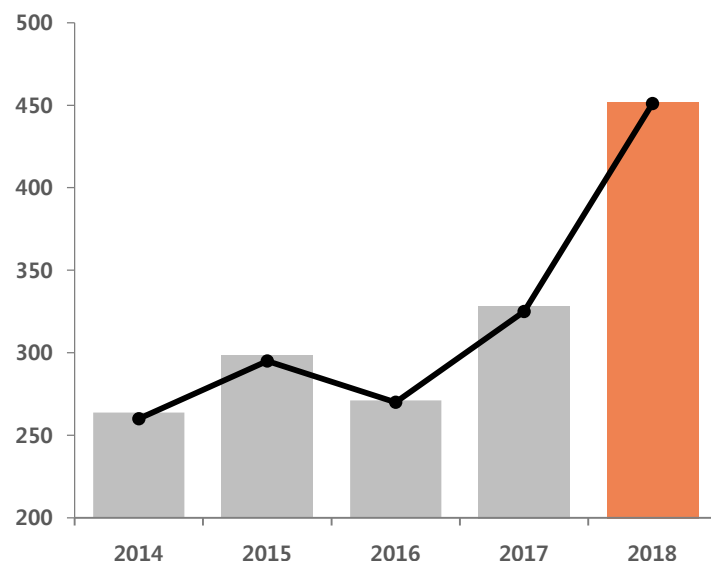
Continuous casting machine

# IR Information

## Sales Amount

Unit : USD million

2014	2015	2016	2017	2018
263.7	298.4	271.2	328.3	451.9



## Ordinary Profit

Unit : USD million

2014	2015	2016	2017	2018
1.3	2.2	2.2	2.8	4.1

# Capacity

Unit : MT

Area	Billet Line Capacity	Ingot Line Capacity
<p>Land plot : 60,225 m<sup>2</sup></p> <p>Building : 10,934 m<sup>2</sup></p>	<p>All : 100,000</p> <p>Melting : 200,000</p> <p>Casting : 100,000</p> <p>Homogeneity : 100,000</p> <p>Cutting : 100,000</p>	<p>All : 150,000</p> <p>Melting : 150,000</p> <p>Casting : 370,000</p>

Production	2014	2015	2016	2017	2018
Billet	95,415	101,123	89,640	71,283	79,388
Ingot	18,934	57,351	52,065	48,234	70,989
Total	114,349	158,474	141,705	119,517	150,377



# Facility Automation

## ALLOY PROCESSES



Raw Material



Melting



Casting



Automatic  
Stacking



Release

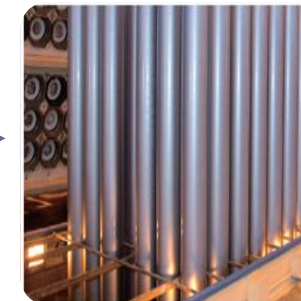
## BILLET PROCESSES



Raw Material



Melting



Casting



Homogenizing



Release

Company Name	<b>Kalink Co. Ltd</b>
Establishment Date	<b>Jun. 16<sup>th</sup> 2000</b>
Name of CEO	<b>Shin Wang Gon</b>
Business Fields	<b>Vehicle aluminum wheel manufacturing and sales of manufacturing equipment</b>
Address	<b>37, Sundongsandan 17-gil, Gimjae City, Jeonbuk</b>
Telephone No.	<b>063) 540-5300</b>
Facsimile No.	<b>063) 540-5301</b>
Homepage	<b><a href="http://www.kalink.co.kr">www.kalink.co.kr</a></b>



## History

Sept. 2015	<b>Exported AI Wheel production equipment with SSWL in India</b>
Oct. 2013	<b>Commenced mass production of VOLKSWAGEN products</b>
Oct. 2012	<b>Commenced mass production of SUBARU products</b>
May 2011	<b>Product supply agreement with VOLKSWAGEN &amp; AUDI</b>
Nov. 2008	<b>Change of company name (Jinwonmetech→Kalink)</b>
Dec. 2007	<b>Nissan (US,Jap,Eng) OEM VENDER registered</b>
Nov. 2006	<b>\$50 billion Export Tower Award (43<sup>rd</sup> Trade Day)</b>
Dec. 2003	<b>Registered as CHRYSLER OEM VENDER in USA</b>
Jun. 2000	<b>Established company (Jinwonmetech Co. Ltd)</b>



## Business Sector

- Manufacture Al Alloy Wheel
- Export of production equipment and operation technology

We export production equipment and operation technology for plants based on global alloy wheel production technology.

**<Agreement signed for Alloy Wheel production equipment and technical support with SSWL in India>**



## Production Process



Melting



Casting



탕구Drill



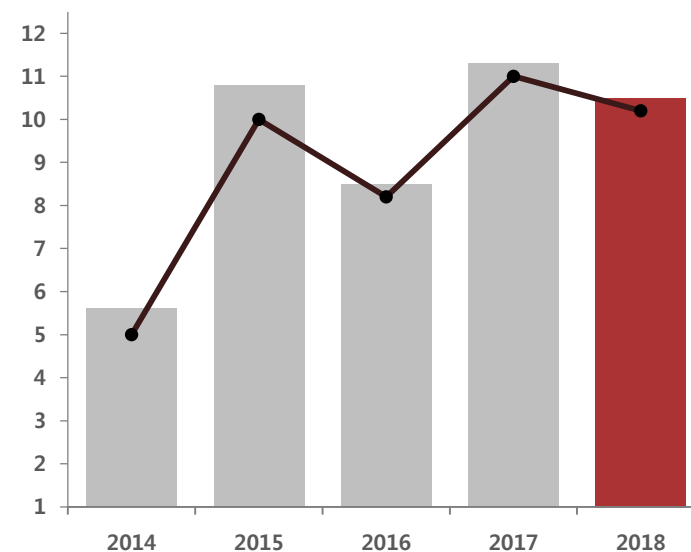
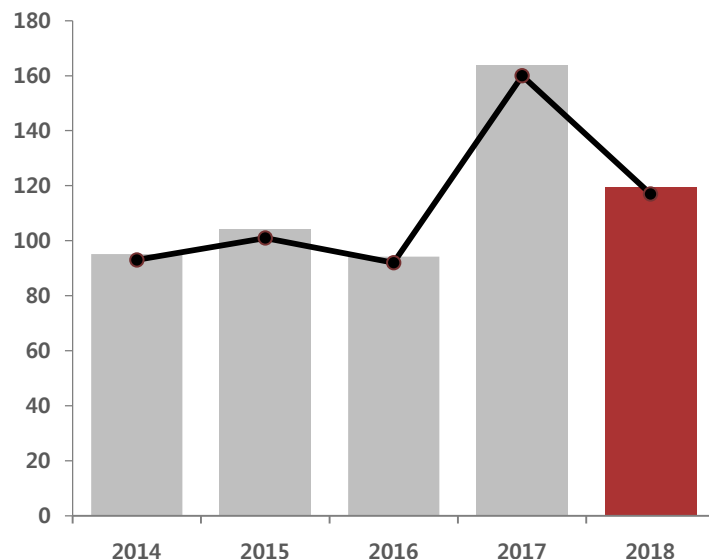
Heat treatment

# IR Information

## Sales Amount

Unit : USD million

2014	2015	2016	2017	2018
95.1	104.0	94.2	163.8	119.4



## Ordinary Profit

Unit : USD million

2014	2015	2016	2017	2018
5.6	10.8	8.5	11.3	10.5

Company Name	ALINK WHEEL (LYG) CO., LTD
Establishment Date	Nov. 2007
Name of CEO	Pyo Kyoung Cheon
Business Fields	Manufacturing and sales of vehicle aluminum wheel
Address	No. 109, Dapu Road, Dapu Industrial Zone, Lianyungang City, Jiangsu, P.R. China
Telephone No.	+86-518-85792291
Facsimile No.	+86-518-85792290
Homepage	<a href="http://www.alinkwheel.com">www.alinkwheel.com</a>



## History

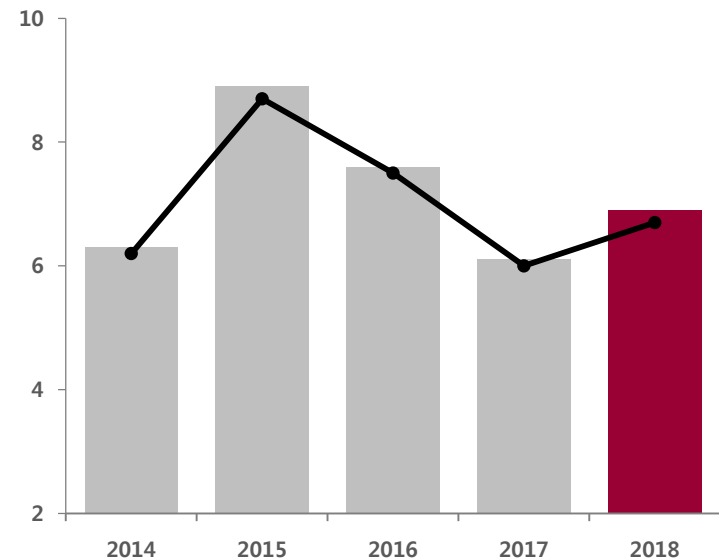
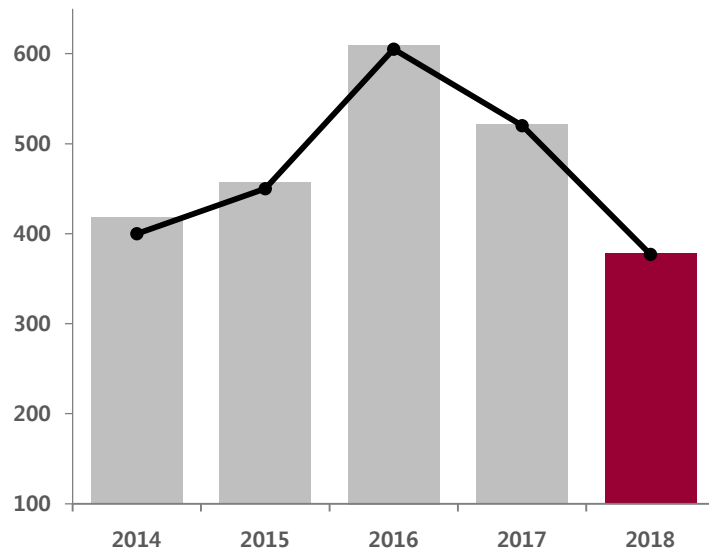
Jan. 2013	Introduced Flow-forming equipment for premium wheel production
Jan. 2012	Passed Volkswagen's plant audit
Oct. 2011	Passed FIAT's plant audit
Sept. 2011	Increased production capacity to 2.5 million units
Oct. 2010	Registered as CHRYSLER OEM VENDER in USA
Apr. 2009	Registered as Nissan (China, USA, Japan, UK) OEM VENDER
Oct. 2008	Commenced mass production of products
Nov. 2007	Established company

# IR Information

## Sales Amount

Unit : USD million

2014	2015	2016	2017	2018
418.1	456.9	609.6	521.6	378.3



## Ordinary Profit

Unit : USD million

2014	2015	2016	2017	2018
6.3	11.9	7.6	6.1	6.9

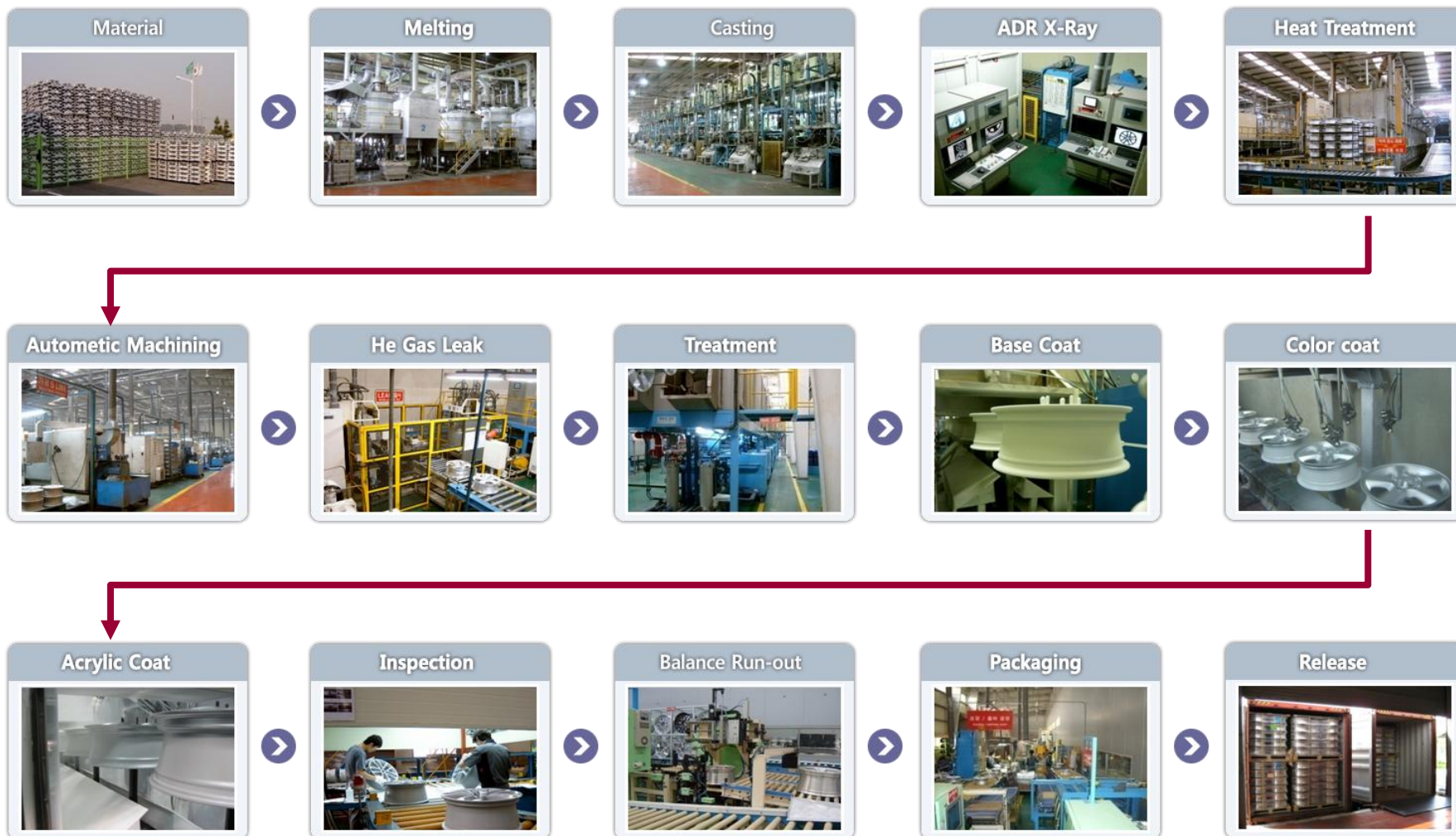
# Capacity

Kalink (South Korea)		Alink (China)	
Area	People	Area	People
Land plot : 25,192 m <sup>2</sup> Building : 14,022 m <sup>2</sup>	All : 275 Office workers : 51 Production workers : 224	Land plot : 99,000 m <sup>2</sup> Building : 55,000 m <sup>2</sup>	All : 869 Office workers : 150 Production workers : 719

Unit : PCS








Production Quantity	2014	2015	2016	2017	2018
Kalink	1,407,026	1,572,228	1,758,421	2,173,374	1,971,572
Alink	1,830,713	2,364,698	2,807,732	3,297,338	3,160,329
Total	3,237,739	3,936,926	4,566,153	5,470,712	5,077,901

# Process





# Customers

Car Maker		Programs	Remarks
	JAPAN	MURANO, QASHQAI, JUKE, LEAF, ROGUE, PATROL, NOTE, SKYLINE COUPE, SERENA	From 2007
	USA	ALTIMA, X-TEERRA, LEAF, ROGUE, MURANO	From 2007
	UK	QASHQAI, JUKE, LEAF, NOTE	From 2007
	CHINA	QASHQAI, LEAF, ROGUE, MURANO	From 2010
	SPAIN	PATHFINDER, NAVARA, NOTE, PULSAR	From 2011
	GERMANY	GOLF, PASSAT, TIGUAN	From 2013
	USA	B-SUV	From 2014
	MEXICO	GOLF, GOLF GP, TIGUAN, JETTA	From 2014
	BRAZIL & ARGENTINA	FOX, SURAN	From 2014
	GERMANY	A3	From 2014
	USA	200, PACIFICA	From 2004
	CANADA	TOWN & COUNTRY, ROUTAN (VW)	From 2004
	USA	DART, AVENGER, DURANGO, RAM 1500	From 2010
	CANADA	CARAVAN, JOURNEY	From 2007
	USA	GRAND CHEROKEE	From 2011
	JAPAN	FORESTER, EXIGA	From 2012
	USA	LEGACY, IMPREZA	From 2014



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Hiho Group