

DUCK SUNG

THE PURSUIT OF HAPPINESS



THE LEAD RECYCLING COMPANY

DUCK SUNG

CEO Greetings

Hello!

I am very pleased to introduce Duck Sung to you through this opportunity. Since founded in 1976, Duck Sung has strived for the lead refining industry and at present, it plays a big role in the nonferrous metal industry. Now Duck Sung intends to challenge for “the creation of new values” Based on the mission of creating new values, Duck Sung will practice environmental management and quality management. The major policy of Duck Sung is to abide by the regulations and laws of environment for nature, environment, and environment-friendly establishment, and Duck Sung actively promotes R&D for better treatment facilities. Through the thorough quality control and the research and development, Duck Sung will maintain the environmentally friendly top quality and technologies. If you have any inquiry or question, please feel free to contact us so we will be back to you soon with the best solutions. Thank you very much for your interest in Duck Sung’s products.

CEO Je hun Kim

1984

1975. 8

Established DUCK SUNG Industry Co. Ltd.
in Taejeon-Dong, Daegu

1993~1998

1993. 8

Moved to Uksu-Dong,
Suseong-Gu, Daegu

1998.5

Enlarged the manufacturing facility,
6,000tons/yr

2003~2004

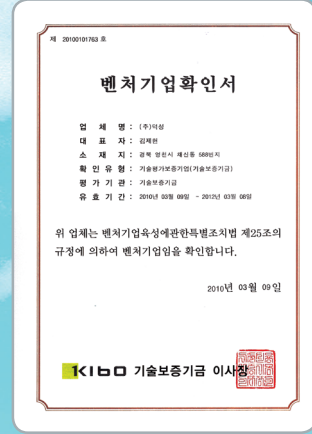
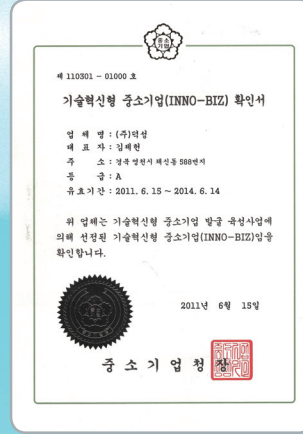
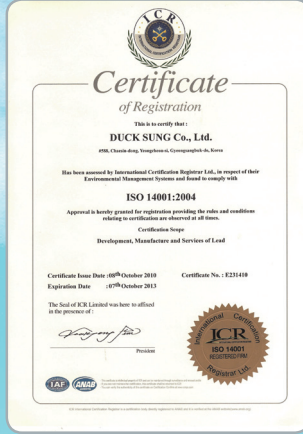
2003. 7

Changed the company name to
DUCK SUNG Steel

2004.7

Moved to 588 Chaesin-Dong, Youngcheon,
Gyeongbuk(Land 3,000-pyeong, Building 800-pyeong)
Facility (Bullion Production capacity 10,000tons/yr)

*Here is Duck Sung for beautiful nature, affluent future,
and all our happiness.*



2007

2007. 3
Membership to The Korea
International Trade Association

2007. 5
Designated as an excellent SME
by Daegu Bank

2007. 7
Changed the company name to
DUCK SUNG Co. Ltd.

2009

2009. 10
ISO 9001/14001 Certification

2009. 11
Awarded the Five Millions
Export Tower

2010

2010. 3
Venture Capital Certification

2010. 9
Extended the manufacturing facility
(Bullion Production capacity:
25,000tons/yr)

2010. 10
ISO9001/14001 Certification

2011

2011. 6
INNO-BIZ Certification

2011. 12
Awarded the Ten Millions
Export Tower





Company Photos



Melting / Casting



Offices



Factory Crushing

Enviromental management policy of Duck Sung

Establishment of the enviroment-friendly management system construction of pleasant enviroment through continuous improvement activity.

Duck Sung's services are reliable.

Duck Sung has formulated its quality policy to attain the goal of being developed into a top company Duck Sung will practice the quality policy, obtain the reliability and the safety of quality, and further, meet with customer satisfaction.



Production Facility

Production Capacity

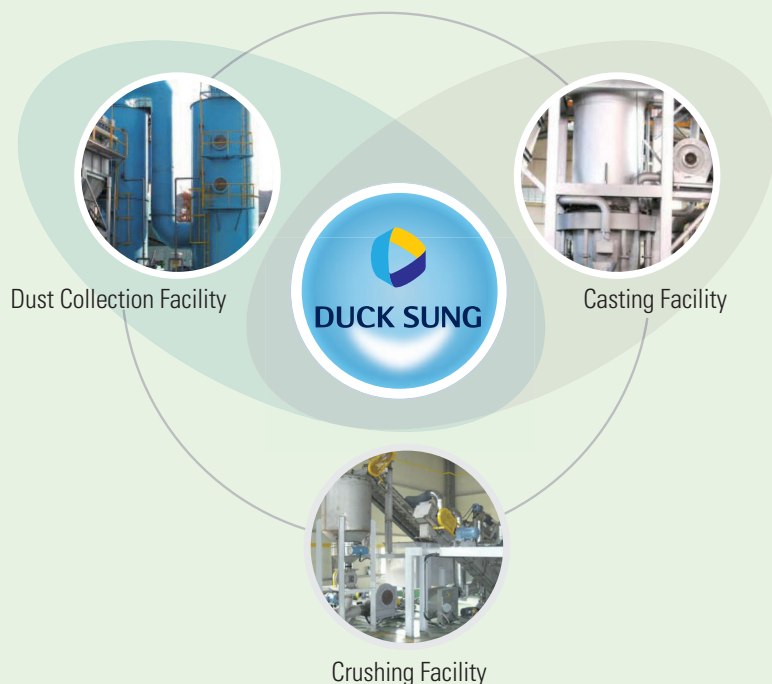
- Pure Lead 15,000 ton/year Lead alloy 10,000 ton/year
- Bullion 25,000 ton/year

Manufacturing Facility

- Furnace 10,000ton/year 1 unit
- Furnace 15,000ton/year 1 unit
- Ingot Automatic Caster 2 units
- Kettle 50ton 2 units
- Kettle 30 ton 2 units
- Various anti-pollution facilities
- battery automatic crushing system 1unit
- battery semi autic crushing machine 3units

Inspection facility

- Optical emission spectrometer(OES-5500 II)





Introduction

Reliability, Acceptability,
Durability, Profitability and
Vitalization of Pure Lead,
Lead Alloy and By-Product

Active direction depending on preference and characteristics
of pure lead, lead alloy and by-product in the world

Environmental Improvement

Thorough management by having designated Quality Manager
and Overseas Marketing Manager for the final refined lead alloy
and by-product

Quality Management

Quality of products secured by Best Quality Manager, Overseas Marketing
Manager and End Users, and Eco friendly company image by recycling waste
lead to produce lead products



Introduction of Business

Overseas marketing strategy

- Waste batteries are designated batteries (yellow wastes). By recycling them to make lead, we can make a contribution to the improvement of environment.
- We supply various pure lead (Pb 99.99%), lead alloy, and by-products (polypropylene chips) at the most competitive price, and ship them timely.
- We make a luxurious positive image through the active overseas marketing strategy of developing different supply p g pp y and demand sources for pure lead and lead alloy.

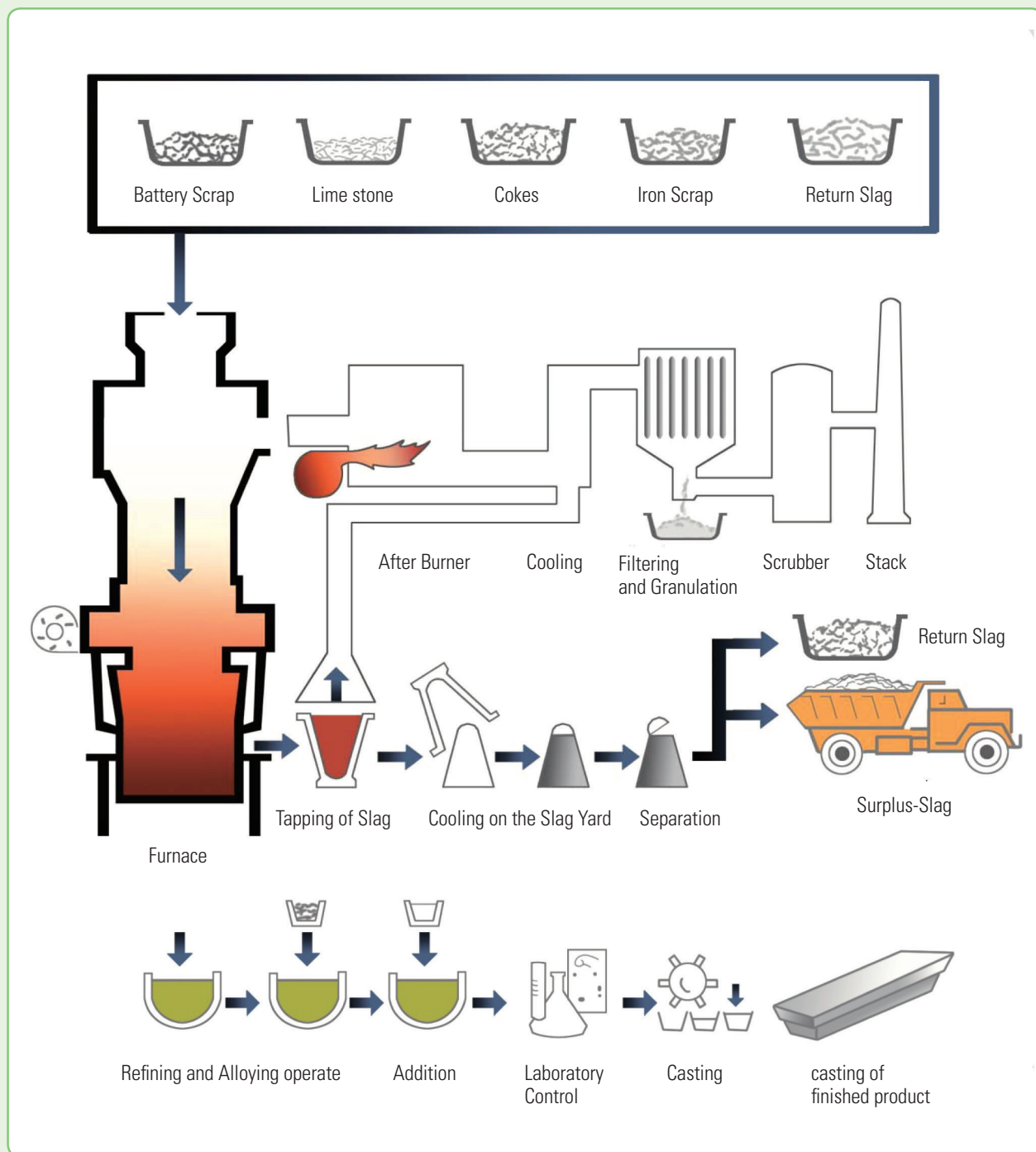


The pursuit of happiness
“ DUCKSUNG ”

- We work on the continuous quality improvement in order to supply pure lead and lead alloy of high purity to promising buyers in the world, to keep continuous relationship with them, and to construct trust.
- We make environmentally friendly products and construct the image of environmental improvement through the technical research and development for pure lead (Pb 99.99%) and the continuous efforts.
- We improve the quality of new products to meet with customers' requirements and thoroughly take care of customers in the whole process of receiving an order, inspecting, packing, and shipping.
- We develop the world market with the network marketing system in Korea and abroad, and construct the network for the stable supply of raw materials and the sales of products by thoroughly managing important buyers and customers.
- We supply pure lead and lead alloy of the top quality to end users and partners in the world at the competitive price, and construct the recycling system that designated wastes are recycled to be made into lead.



Flow Chart



Product Introduction

Pure Lead (99.97%)

Standard	Pb 99.97% (Specification Min 99.97%)
Weight	1,000kg, 25kg/ea (Ingot Weight)
Packing	42Bundle per 1set (Packing)
Use	Storage Battery, Plate, Tube, Lead Oxide, Litharge, Solder, Lead Compounds for Industrial Purposes



Pure Lead Ingot

Standard	Pb 99.97% Min
Ingot Weight	25 ± 1kg/ea
Ingot Size	550 x 85 x 85
Bundle Weight	1,050 ± 50kg
Q'ty per Bundle	42ea

□ Ingredient (Typical Assay(%))

Elements	Lead	Antimony	Tin	Copper	Arsenic	Metal	Bismuth	Silver	Zinc
	(Pb)	(Sb)	(Sn)	(Cu)	(As)	(Fe)	(Bi)	(Ag)	(Zn)
%	99.97 Min	0.003 Max	0.003 Max	0.003 Max	0.002 Max	0.004 Max	0.020 Max	0.002 Max	0.002 Max



Product Introduction

Lead Alloy

Weight	1,000kg, 25kg/ea (Ingot Weight)
Packing	42Bundle per 1set (Packing)
Use	Lead Acid Storage Battery, other Industrial Purposes

Sb Alloy



Kind	Sb 1.8%, 2.5%, 3.0% 4.5% 6.0%
Ingot Weight	25 ± 1kg/ea
Ingot Size	550 x 85 x 85
Bundle Weight	1050 ± 50kg
Q'ty per bundle	42ea

□ Components (Typical Assay(%))

Elements	Antimony (Sb)	Arsenic (As)	Tin (Sn)	Copper (Cu)	Selenium (Se)	Lead (Pb)
%	2.5%ave	0.3%ave	0.08%ave	0.06%ave	0.006%ave	Rem.

Bullion



□ Components (Typical Assay(%))

Standard	above 98%
Ingot Weight	1,050 ± 50kg / ea
Ingot Size	800 × 500 × 500

Purchasing Items

Raw Material

Batteries

Rain
(Battery Without Acid)



Rink
(Whole Battery)



Rails
(Battery Without Acid & Case)



Lead Scrap

- Domestic Used Storage Battery Scrap
- Various kind of industrial storage batteries
- Lead Cable Sheath
- Lead Scrap, Waste from storage battery manufacturing process

Metals for Producing LEAD ALLOY

- Metallic Antimony and Lead-
- Metallic Tin and Lead-Tin alloy free
- Metallic Calcium Granule
- Metallic Selenium Granule

Secondary Material

Cokes

Salt peter (Na_2NO_3)

Soda Ash (Na_2CO_3)

Caustic Soda (NaOH)

Iron Powder (Fe)

Sulfur (S)



OFFICE ADDRESS

DUCK SUNG Co. Ltd.

Chaesin 1 Industrial Complex, 588 Chaesin-dong,
Youngcheon-si, Gyeongsangbuk-do, Korea

Office Tel : +82-54-336-4344, 4341, 4342

Office Fax : +82-54-336-4345, 4340

Web Site : www.dslead.com



THE LEAD RECYCLING COMPANY

DUCK SUNG