

# Aluminium Extrusion/Mold/Processing/Surface-Treatment

## One-Stop Aluminium Service



# COMPANY

## INTRODUCTION

## 會社紹介書

# OCKDONG Co., Ltd.

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2020. 01. 09

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## Vision

**가볍고 강한 금속 생활도구를 신속히 개발하여, 정확하게 고객에게 공급하는 기업!**

Rapidly developing lightweight & strong metal tools and accurately deliver them to customers.



**옥동은 우수한 재질의 자재와 엄격한 품질관리를 통해 고객에게 최상의 제품을 공급하는 것을 최고의 서비스라고 믿고 있습니다.**

We believe that providing excellent quality materials and rigorous quality control is the best service to deliver the best products to our customers.

2

BRAND

43

HISTORY

5000

CAPACITY (Year)

17 million

SALES (US \$)



## Company History (会社の略歴)

2018. 12 Sales have surpassed \$17 million. Establishment of R&D Center.

**2018. 12 Development of Liquid Nitrogen Cooling Technology with KITECH.**

2017. 10 Deploy Smart Factory (M.E.S By Manufacturing Part.)

**2017. 10 Development of P.V.D Mold-Coating Technology with KITECH**

2016. 10 Obtain an ISO 9001:2015 & KS D 6759 Certificate.

**2015. 07 Construction of new building and factory.**  
**(1,800 ton – 7inch New Automation Extrusion system)**

2007. 10 Change of company Name Ockdong Co., Ltd.

**2005. 03 The inauguration of a C.E.O Jong-hyun, Ra.**

**1993. 03 Incheon factory Opening Ceremony.**

1978. 04 Establishment of company

# Annual Sales Trend

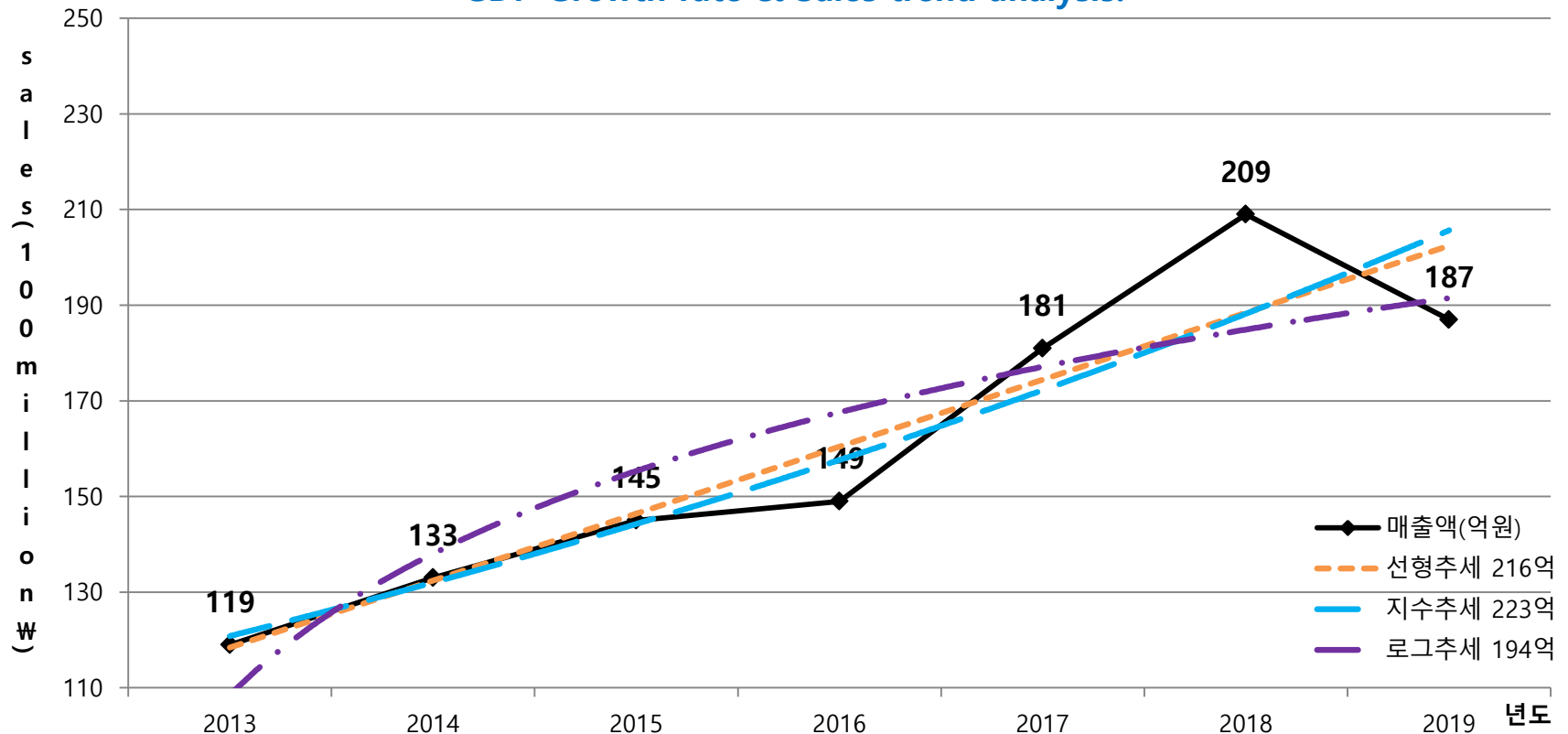
알루미늄 압출/금형/가공/표면처리  
One-Stop Aluminium Service

## Sales Trend

(KRW:100 million, \$:million, 1\$=₩1,150)

Years		2013	2014	2015	2016	2017	2018	2019	Reliability
Domestic GDP Growth(%)		2.3	2.9	3.3	2.6	3.0	2.7	2.0	R <sup>2</sup>
Sales KRW₩ (US\$)	Trend analysis1	₩119 (\$10.3)	₩133 (\$11.5)	₩145 (\$12.6)	₩149 (\$12.9)	₩181 (\$15.7)	₩209 (\$17.9)	₩187 (\$16.3)	0.9285
	Trend analysis2								0.9571
	Trend analysis3								0.7865

## GDP Growth rate & Sales trend analysis.



## The Key AGENDA for the 2020 Project Plan. (アジェンダ)



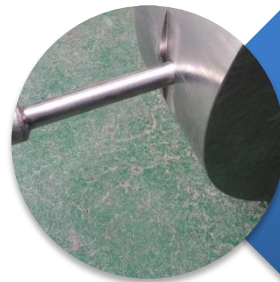
### 1. Sales Target 19.3 Million !

- Rise in raw material price and America – China Trade Conflict.
- Find new Customers, Increase in bond yields.
- Vehicle parts, Solar parts market entry.



### 2. Quality improvement ; 品質向上

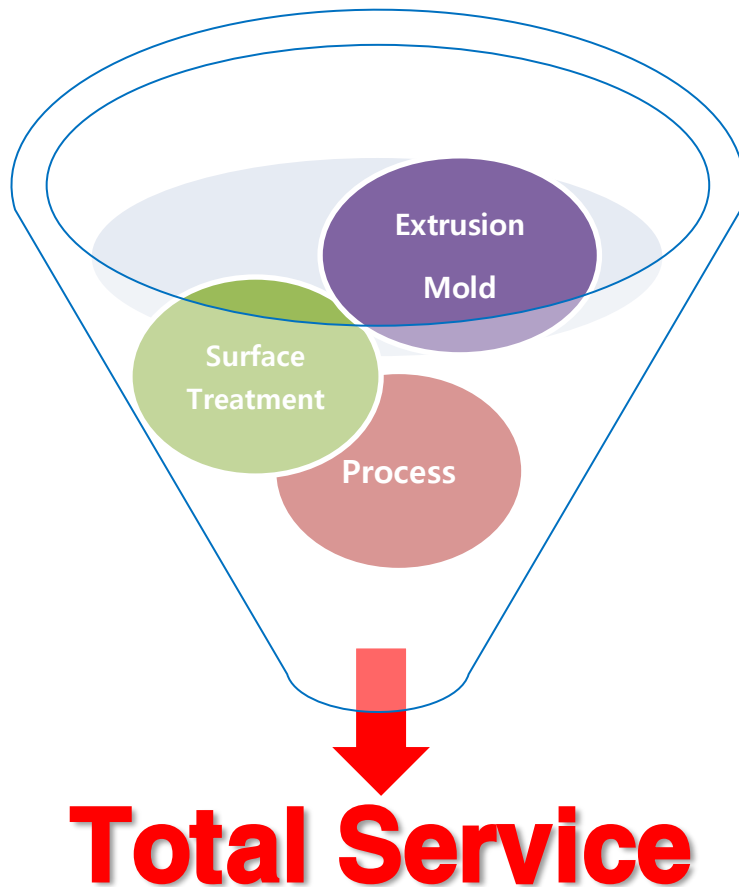
- Increase and improve productivity.
- Decrease defective products, Strengthen inspection.
- Training of defective products. KS, ISO certificate



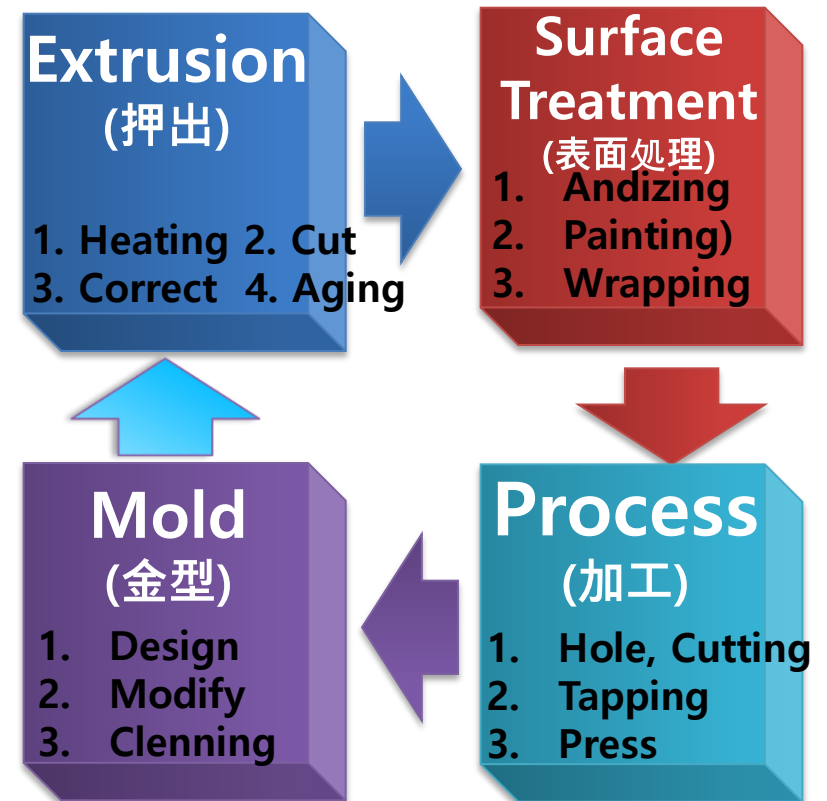
### 3. Research and development ; 研究開発

- Partnership with KITECH and Joint Research and Development.
- Mold Coating, Mold Cooling system Technology R&D.
- Securing Technical skills through R&D

## Aluminium

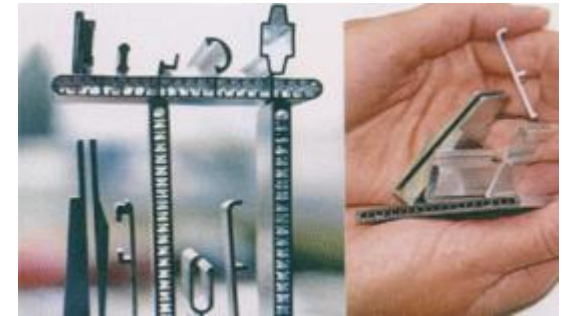
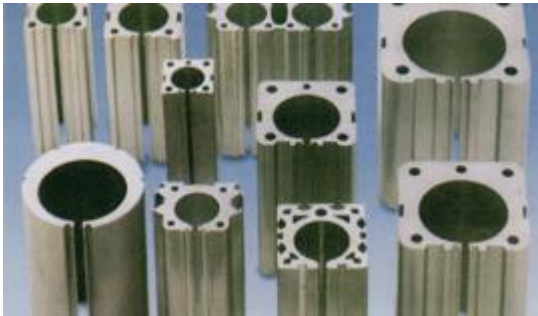


## Process Flow Chart

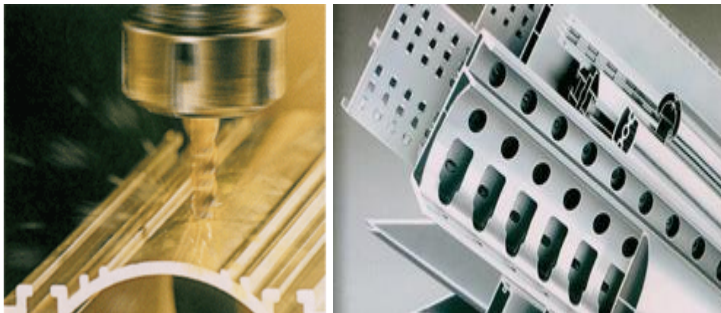




## A 6063 S Extrusion Product



## Aluminium Profile Process



## Aluminium Dress System



# Extrusion Machine



- ▶ **U.S 1,800ton Automated Extrusion Line & Quenching Machine.**
  - AL 6063, 6061, 6N01 etc. AL 6000 series & T5, T6 Heat treatment.
  - Full Automation Facility. Have quality competitiveness compared to other companies.
  - Productivity is improved by 25 ~ 30% compared to manual machines.



# Log-Heater & Hot-Saw



## ► Log-Heater & Hot -Saw.

- Can be Heated with a Billet size of 7 inch x 6,500mm.
- Type : 4 - Zone Heating.
- LPG(LNG) Max 400,000 kcal/hr. Heating capacity of 1.5ton per hour.
- Automatic adsorption of Aluminium Chips, providing a pleasant environment.

# Aluminium Extrusion Line



## ► Automation Cooling table.

- 70ton Stretchable machine, Initial Table, Puller, Cooling Table etc.  
Produce products with automated facilities.
- 45 meters Cooling table with All Conveyor type.
- Delivering the best products to your customers at the highest quality and faster production speeds..



# Auto Stacker & Aging Oven



## ► Auto Stacker & Aging Oven

- Automated Pallet Loading System with Over head drive with Up arm type.
- The Loaded Pallet through the Stackers automatically moves through the rail to the Aging oven.  
Aging oven : 6pallets / charge. 180 ~ max 250 °C. Automatic by T.I.C Burner Control.
- Equal Quality with even Heat Treatment.

# Extrusion Mold

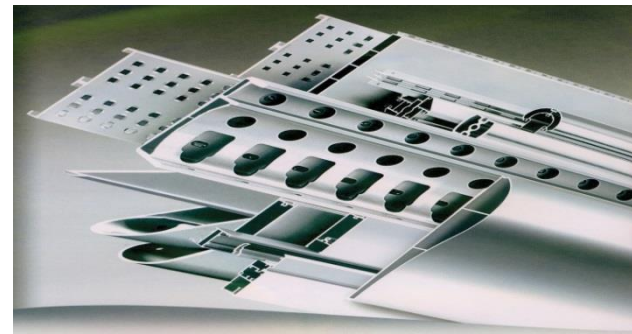
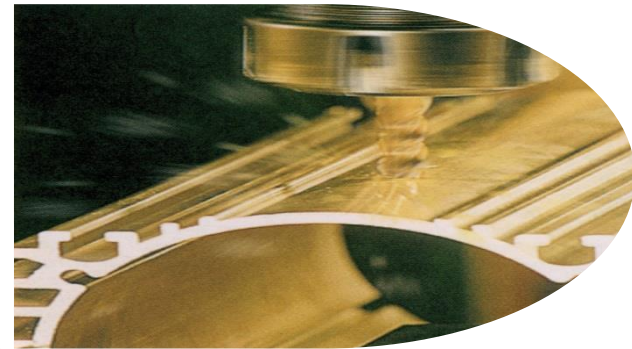


## ► Molds Modified

- 40years of Know-How and CAD/CAM, 3D Program mold design.
- Ongoing Technology development enables accurate shape and dimension production of Customer's Needs.
- Development of P.V.D Mold-Coating Technology & Liquid Nitrogen Cooling Technology with KITECH.



# Surface Treatment & Process

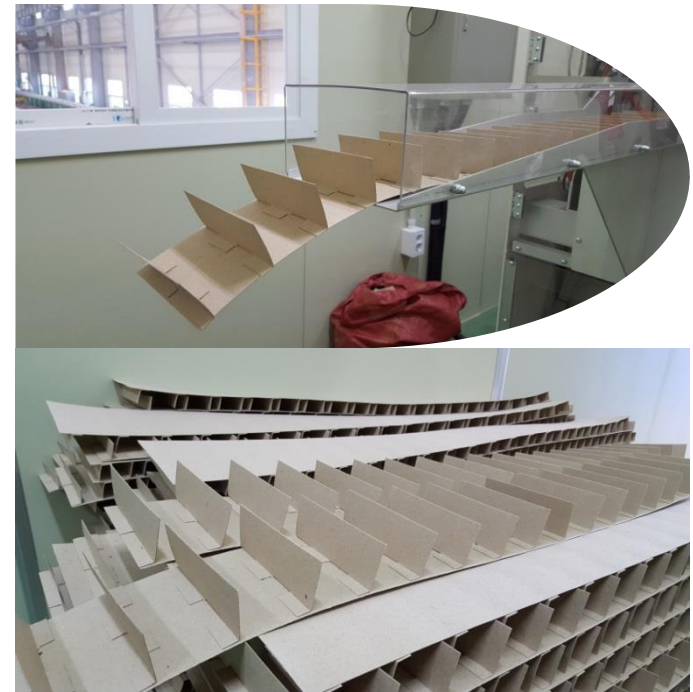


## ► Surface Treatment & Processing.

- Anodizing, Powder & Liquid Painting, Wood-Grain etc. Various surface Treatments.
- It can be produced up to 50 to 7000mm, chemically processed in an automated facility, and it can be done in a variety of colors, including the metallic colors of the aluminum itself.
- Through Sandblasting, Hair-line and Polishing, the texture of the surface can vary.



# Packing Machine



## ► European Package Paper(Pad) Machine.

- The Introduction of the latest automated packaging machine will prevent scratches, which are the biggest causes of aluminium products.
- Paper length, spacing, and height can be adjusted for all products.
- We look forward to reducing costs and improving customer confidence due to reduced labor costs and minimal defect.

## 1. Product Equipment

Process	Equipment
HEAT	<ul style="list-style-type: none"><li>▪ LOG HEATER</li><li>▪ DIES HEATER</li></ul>
EXTRUSION	<ul style="list-style-type: none"><li>▪ EXTRUSION PRESS</li><li>▪ PULLER</li><li>▪ Automatic Extrusion Line</li></ul>
HEAT – TREATMENT	<ul style="list-style-type: none"><li>▪ AGING OVEN</li></ul>
CUTTING	<ul style="list-style-type: none"><li>▪ Cutting machine</li><li>▪ Product Cutting machine</li><li>▪ Automatic Stacker</li></ul>
STRETCHBLE	<ul style="list-style-type: none"><li>▪ Stretchble machine</li></ul>
OTHER	<ul style="list-style-type: none"><li>▪ Hoist Crane</li><li>▪ Air compressor</li></ul>

## 2. Tester Equipment

Process	Equipment
TENSILE	<ul style="list-style-type: none"><li>▪ Universal Material Tester Machine (10ft)</li></ul>
DIMENSION	<ul style="list-style-type: none"><li>▪ Vernier Calipers</li><li>▪ Micro-meter</li><li>▪ Angulator, Thickness meter</li></ul>
TEMPERATURE	<ul style="list-style-type: none"><li>▪ Infrared thermometer</li><li>▪ Contact type thermometer</li></ul>
WEIGHT	<ul style="list-style-type: none"><li>▪ Electric scale</li><li>▪ Truck Scale</li></ul>
HARDNESS	<ul style="list-style-type: none"><li>▪ Webster Hardness meter</li></ul>

## ISO 9001 : 2015



### CERTIFICATE OF APPROVAL

**OCKDONG Co., Ltd.**

136, JIHINGSEGI 19-RO, SEO-GU, INCHON, KOREA

Korean Standards Association hereby certifies that the Quality Management System of the above organization has been assessed and found to meet the requirements of the standard and scope of certification detailed below:

CERTIFICATION No. QMS-4324  
STANDARD KS Q ISO 9001:2015/ISO 9001:2015  
SCOPE OF CERTIFICATION  
PRODUCTION OF ALUMINIUM AND ALUMINIUM ALLOY EXTRUDED SHAPES

VALID FROM 23 May, 2019  
VALID UNTIL 22 May, 2022

Original Certification Date : 23 May, 2018

Date of Issue : 07 Apr 13, 2019


*Angela Lee*  
PRESIDENT OF KSA

**KOREAN STANDARDS ASSOCIATION**  
305, Telokan-Ro, Gangnam-Gu, Seoul, Korea


**KSA** **IAF** **KAD**

KSA has been accredited in respect of ISO 9001 certified by the KAD Accreditation Certificate Number KAD-QC-30

## Korea Standard(KS D 6759)



인증번호 : 제 16-0548 호



### 제 품 인 증 서

1. 제조업체명 : (주)옥동  
2. 대표자성명 : 라중현  
3. 공장소재지 : 인천 서구 경서진로 136 (오류동)  
4. 인증제품  
가. 표 준 명 : 알루미늄 및 알루미늄합금 압출 형재  
나. 표 준 번 호 : KS D 6759  
다. 종류 · 등급 · 호칭 또는 모델 : A6063S (표면처리하지 않은 것) · 골

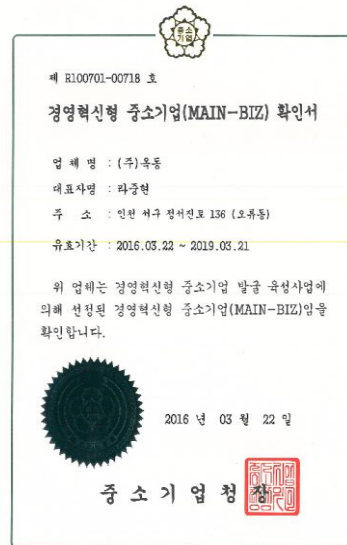
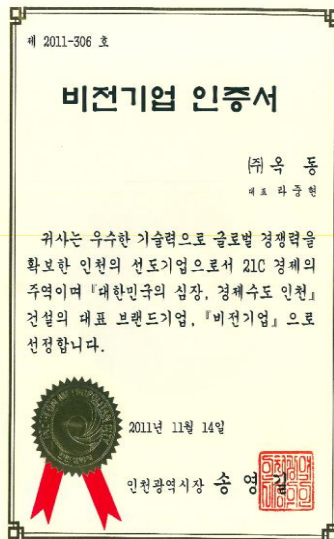
「산업표준화법」 제17조 제1항에 따른 인증심사를 실시한 결과 한국 산업표준(KS)과 인증심사기준에 적합하므로, 「산업표준화법」 제15조 및 같은 법 시행규칙 제10조 제1항에 따라 위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2019 년 10 월 02 일

**KSA** **한국표준협회**

1. 최초 인증일 : 2016-09-13  
2. 차기심사 완료기한 : 2022-09-12  
3. 최종 변경일 : 2019-10-02 정기심사 합격

## Domestic Certificate



## Patent & Other

PATENT	09-112797	Frame for Preventing Condensation in Air Conditioner.
	15-153251	The inserts and their manufacturing methods and devices for which they are manufactured.
	09-98414	Lathe Support material
PRACTICAL - PRO POSITION	309539	Furniture Frame Binding Fasteners.
	769647	A Fastening assembly using a coupling and a coupling.
TRADE MARK - RIGHT	40-675389	Exfor, Oasys



## Address

▶ 인천광역시 서구 정서진로 136 (경인 아라뱃길 물류단지 內 오류동 1581-5 번지)

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Post number : 22850

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THE END

알루미늄 압출/금형/가공/표면처리  
One-Stop Aluminium Service

Ockdong! lasting 1,000 years.

(千年間持続される企業)

