

# DAIKI ENGINEERING CO.,LTD



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[www.daiki-eng.com](http://www.daiki-eng.com)**

## Central furnace



Aluminum central furnace (ER series)  
Fuels : Gas, Oil  
Melting rate : 500 kg/hr ~ 2,000 kg/hr



Aluminum holding furnace  
burner type (H series)  
Fuels : Gas, Oil  
Holding cap. : 1,500 kg. ~ 3,000 kg.



Automatic  
molten metal  
porter system  
by AK-Sangyo



Aluminum holding furnace  
Electric radiant-type (EH series)  
Radiation heater  
Holding cap. : 400 kg. ~ 2,000 kg.



Aluminum holding furnace  
Electric immersed-type (SH series)  
Immersion heater  
Holding cap. : 700 kg. ~ 2,500 kg.



Aluminum holding furnace  
Burner type (H series)  
Fuel : Gas, Oil  
Holding cap. : 400 kg. ~ 2,500 kg.

## Melting and holding furnace



Aluminum melting and holding furnace (SER series)  
Fuels : Gas, Oil  
Holding cap. : 100 kg/hr ~ 700 kg/hr



Aluminum melting and holding furnace  
Electric immersed-type (SHE series)  
Fuels : Gas, Oil (Melting)  
Immersed electric heater (Holding)  
Melting rate : 100 kg/hr ~ 700 kg/hr

## Pot furnace



Pot furnace  
Fuels : Gas, Oil  
Capacity : 150 kg. ~ 1,000 kg.

## Other

1. Rotary furnace
2. Chip-Melting furnace
3. Metal recovery machine (MRM)
4. Dryer system
5. Repairing furnace
6. Aluminium recycle furnace  
( Capacity : ~ 60 ton )

## Transfer Ladle for Molten Metal



# COMPANY OUTLINE (1/2)

**Company name** : Daiki Engineering Co.,Ltd.

**Established date** : 2 October 2006

**Capital Fund** : JPY 90,000,000

**Floor Area** : 870 Square meters

**Employees** : 9 persons

**Main Bank** : Resona Bank

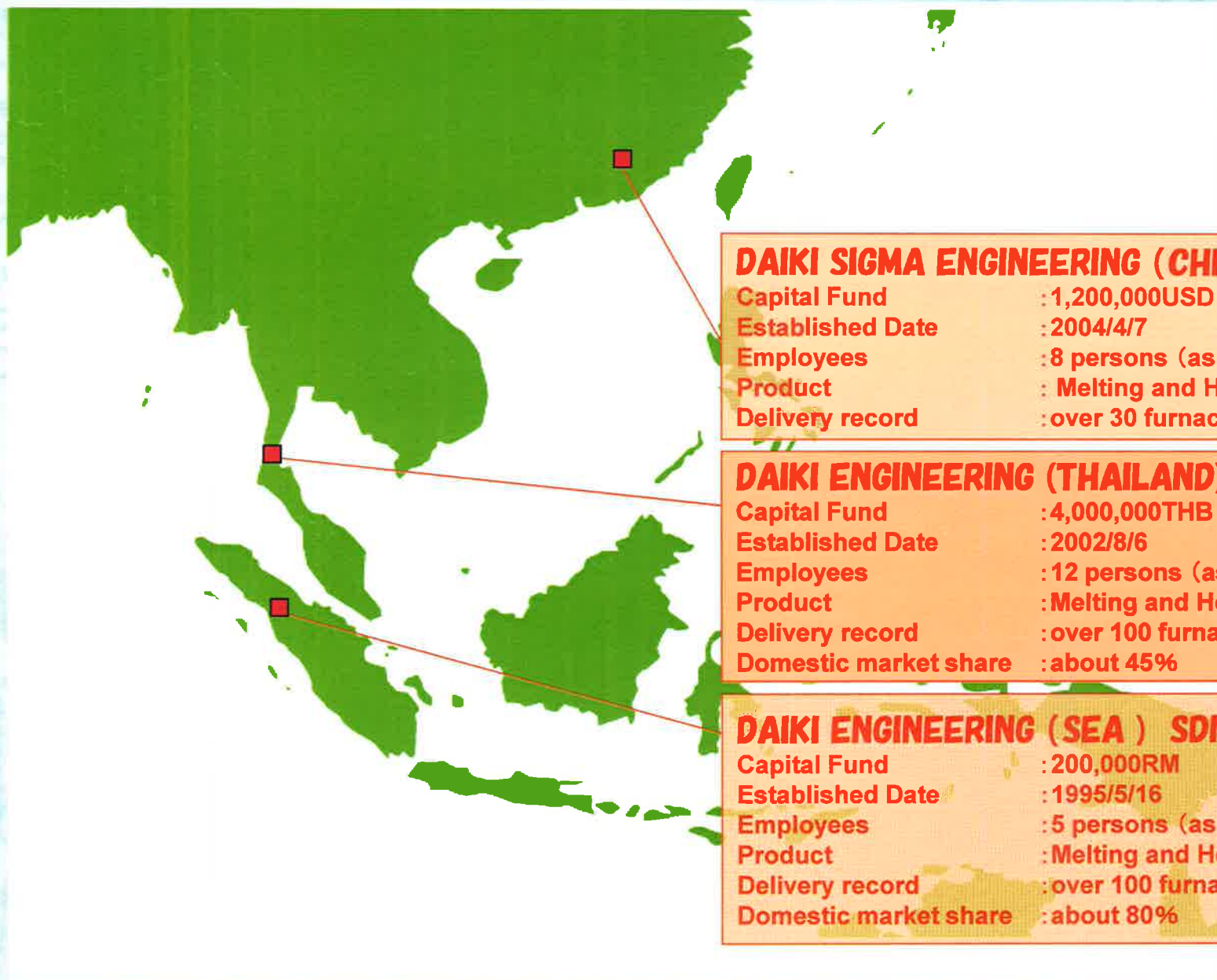
## COMPANY OUTLINE (2/2)

**Shareholder** : Daiki Aluminium Industry Co.,Ltd.  
100%

**Managing Director** : Mr. Norio Nishi

**Executive Director** : Mr. Masayuki Inukai  
Mr. Masahiro Okuda  
Mr. Kazushi Goto  
Mr. Toshio Tani

**Group Company** : Daiki Engineering Thai Co.,Ltd.  
Daiki Engineering (SEA) Sdn.Bhd  
Daiki-Sigma Engineering (China) Inc.



**DAIKI SIGMA ENGINEERING (CHINA) INC.**  
Capital Fund : 1,200,000USD  
Established Date : 2004/4/7  
Employees : 8 persons (as of March 2010)  
Product : Melting and Holding furnace  
Delivery record : over 30 furnaces

**DAIKI ENGINEERING (THAILAND) CO.,LTD**  
Capital Fund : 4,000,000THB (約1,200百万円)  
Established Date : 2002/8/6  
Employees : 12 persons (as of March 2010)  
Product : Melting and Holding furnace  
Delivery record : over 100 furnaces  
Domestic market share : about 45%

**DAIKI ENGINEERING (SEA) SDN,BHD**  
Capital Fund : 200,000RM  
Established Date : 1995/5/16  
Employees : 5 persons (as of March 2010)  
Product : Melting and Holding furnace  
Delivery record : over 100 furnaces  
Domestic market share : about 80%

# PRODUCTS

- 1. Aluminium melting and holding furnaces (SER, SEH, ER, SH, EH, Models)
- 2. Openwell type melting furnace
- 3. Shut tight type melting furnace
- 4. Pot furnace (Electricity, oil and gas-fired types)
- 5. Heat treatment furnaces
- 6. Drying and melting of aluminium powder systems
- 7. Ash transaction systems
- 8. Repair and refurbishing existing furnaces
- 9. Supply of refractory materials



- **10. Supply of flux, coating materials and crucibles**
- **11. Incinerator**

- **TECHNICAL SERVICE**

- **1. Turnkey projects for secondary aluminium recycling**
- **2. Know-how to build a wide range of standard and tailor-built**
- **3. Ancilliary equipment**

# SEH Characteristics

## 1. Energy Saving

- Energy Consumption  $\Rightarrow$  38% less
- CO2 emissions  $\Rightarrow$  53% less  
( $\times$  than SER-200)

**ENERGY  
SAVING**

## 2. Comfortable Working Environment

- Surface temperature of Holding Chamber side  
 $\Rightarrow$  room temperature + 15°C
- Space saving design  
 $\Rightarrow$  30% less

## 3. High Quality

- Excellent temperature control  $\Rightarrow \pm 2^\circ\text{C}$
- No oxide ( $\alpha\text{-Al}_2\text{O}_3$ ) in Holding Chamber

## 4. Long Operating Time

- Cut in flux treatment time
- Easy exchange of tubes  
(in-house replaceable)

## 5. Extended Life

- Use of ceramic tube and heater
- Use of refractories suitable for alloys
- Possible to be maintenance free for more than 10 years
- Improvement in durability of body

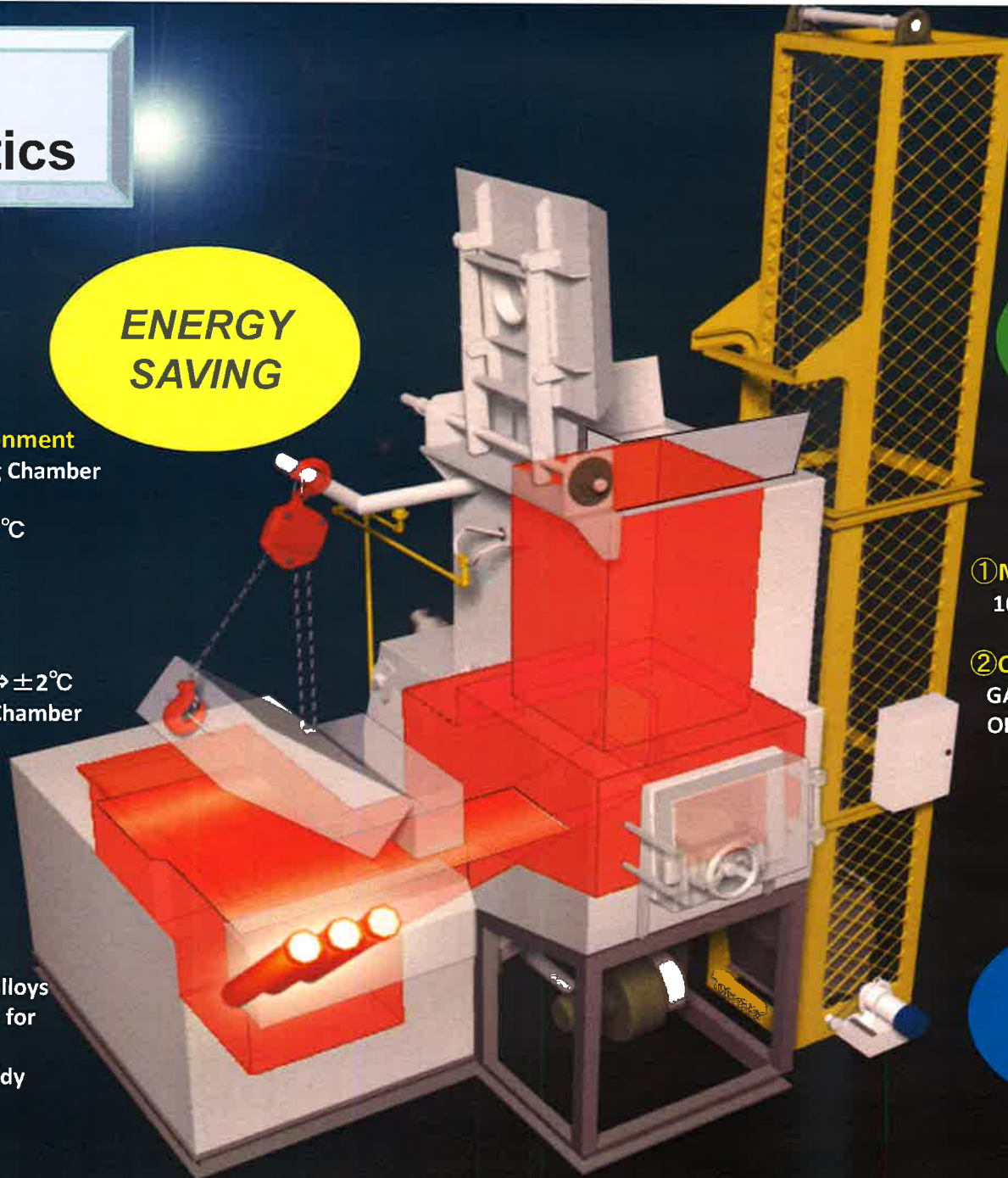
**EXTENDED  
LIFE**

① Melting Rate  
100~1000kg/h

## ② Choice of Fuels

GAS : LNG, LPG, Butane  
OIL : Heavy oil crude A, Diesel oil, Kerosene

**HIGH  
QUALITY**



*DAIKI*