

# POLYURETHANE SYSTEM HOUSE

聚氨酯系統開發設計製造

# H&K Ltd.



## H&K Ltd. 創始

PU系統開發製造商  
PU SYSTEM HOUSE

橡膠貿易公司  
RUBBER CHEMICALS TRADING COMPANY

Häger und Kassner  
Germany

Heisen Yoko

H&K Ltd.

成立於1973年  
Establishment 1973



# H&K Ltd. 現況

橡膠貿易公司  
Rubber chemicals trading company

上海橡膠貿易公司  
Rubber chemicals trading company(Shanghai)

HEISEN YOKO

HEISEN YOKO  
SHANGHAI

KOYO SANGYO

橡膠皮帶/設備貿易公司  
Rubber belt and  
equipment trading  
company

H&K Ltd.



## 公司業務內容 Business line

公司名：	H&K LIMITED
Firm name	H&K LIMITED
成立	1973年2月1日
Establishment	February 1,1973
註冊資本	2000萬日元
Capital	20 Million
經營內容	1液性、2液性聚氨酯樹脂生產銷售 工廠通過ISO 9001/14001認證 1998年5月22日/2003年5月9日
Business line	Manufacture and sales of polyurethane resin. A Factory of ISO 9001/14001 authentication May 22,1998/ May 5,2003
產量	190 ton/月
Production	190 tons/month
占地面積	10517 m <sup>2</sup>
Site area	10517 m <sup>2</sup>



# H&K Ltd. 所在地

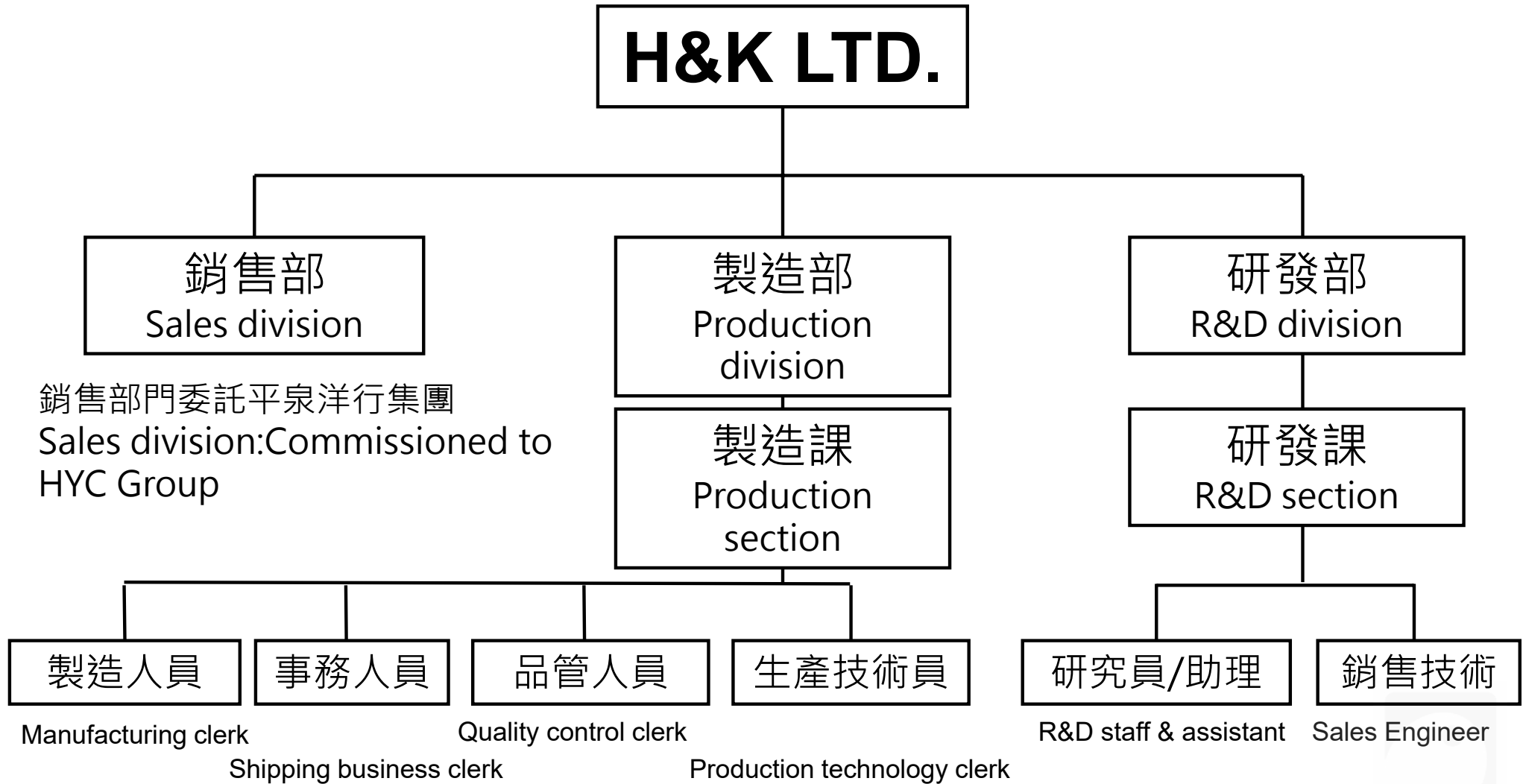


# 平泉洋行集團所在地 Location of Heisenyoko GP.

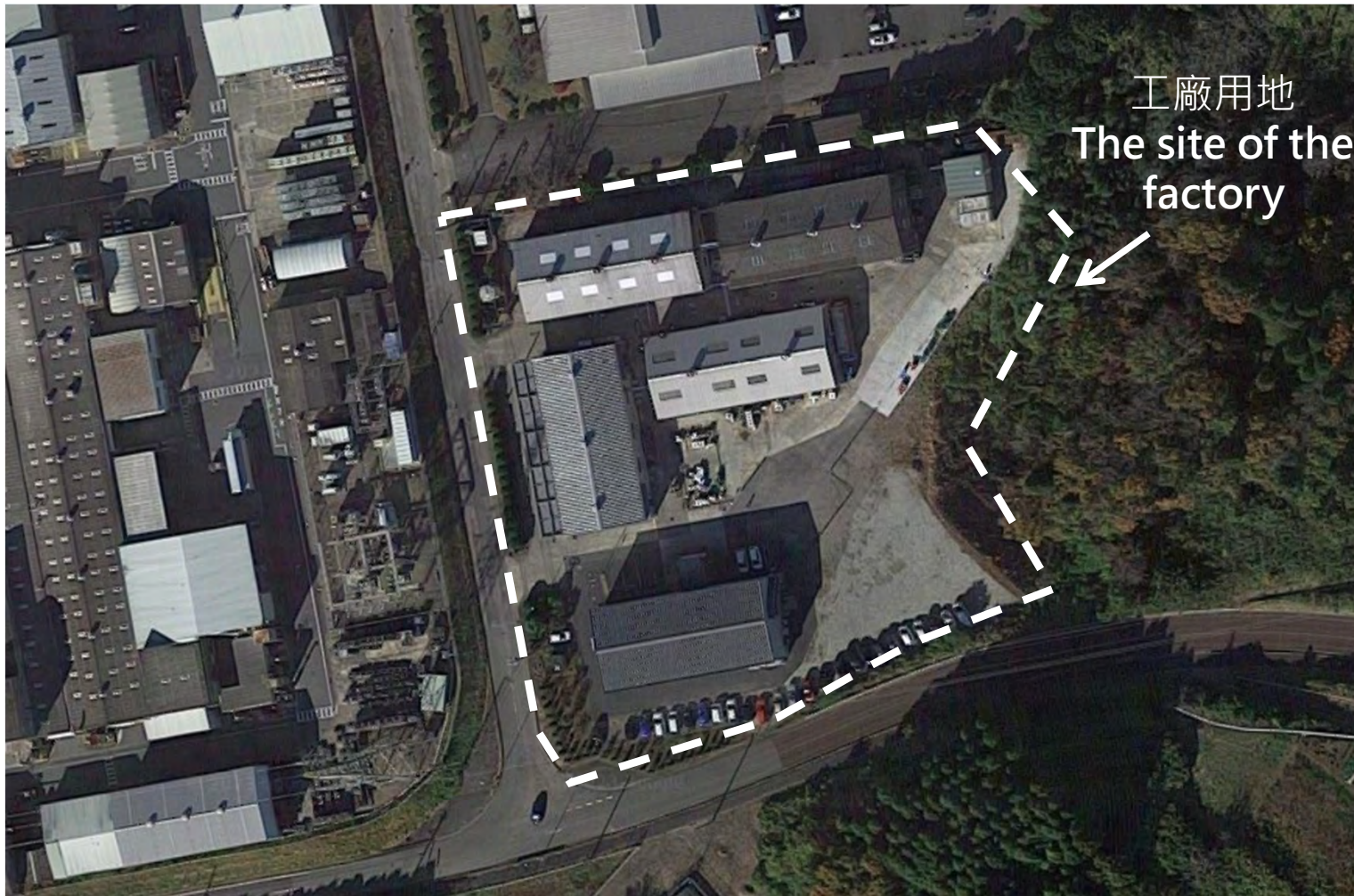


# 組織結構圖

## Organization of H&K Ltd.



# H&K 千葉工廠





# H&K 千葉工廠



產品倉庫  
Product warehouse

行政和研究大樓  
Office & Laboratory  
Building



# H&K 千葉工廠



研究室  
Laboratory

測量室  
Measurement room



# 產品簡介

## Outline of the products

### **Hei-Ad 1000 series**

- ◇ 電子澆注劑/絕緣劑  
Electrical Casting Material

### **Hei-Ad 2000 series**

- ◇ 工業用接著劑  
Industrial adhesive

### **Hei-Cast 3000 series**

- ◇ 注型劑  
Casting material

### **Sportech 4000 series**

- ◇ 彈性鋪路材料  
Elastic paving material

### **Hei-Ad 5000 series**

- ◇ 聚氨酯發泡  
Polyurethane foam

### **Hei-MEX 6000 series**

- ◇ 水性保護塗料/RIM噴塗  
Water-based paint / RIM spray

### **7000 series etc.**

- ◇ 脫模劑等輔助材料  
Releasing agent etc.



# 聚氨酯原料

Base material of Polyurethane

◇多元醇 與異氰酸酯反應形成樹脂的成分

Polyol

**HO-R1-OH**

◇異氰酸酯 與多元醇和水反應形成樹脂的成分

Isocyanate

**OCN-R2-NCO**



# 多元醇和異氰酸酯的反應

Reaction of Polyol & Isocyanate

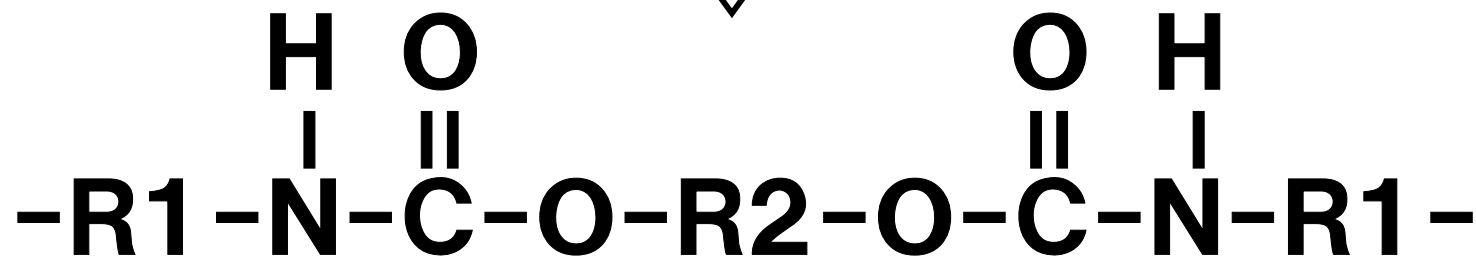
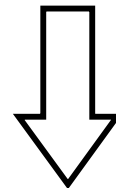


A液:多元醇

A component: Polyol

B液:異氰酸酯

B component: Isocyanate



聚氨酯鍵

Urethane bonding

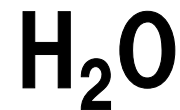
聚氨酯鍵

Urethane bonding



# 水分和異氰酸酯的反應

Reaction of Water & Isocyanate



水

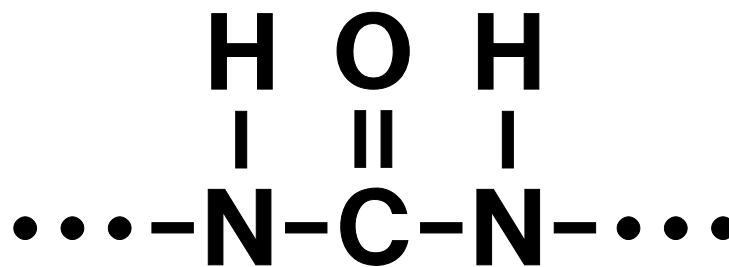
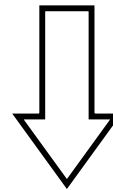
Water

+



B液:異氰酸酯

B component: Isocyanate



脲鍵

Urea bonding



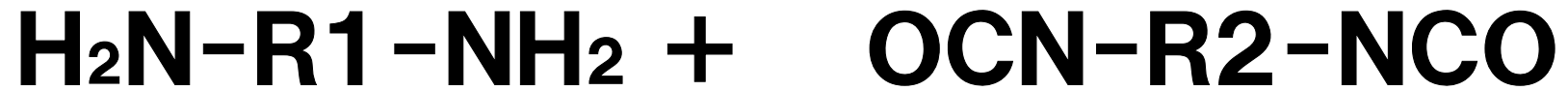
二氧化碳

Carbon dioxide



# 胺和異氰酸酯的反應

## Reaction of Amine & Isocyanate

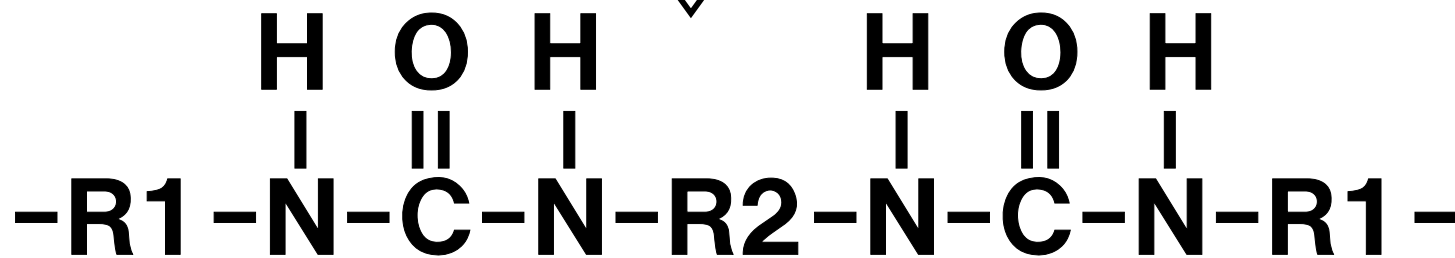
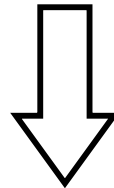


A液:多胺

A component: Polyamine

B液:異氰酸酯

B component: Isocyanate



脲鍵

Urea bonding

脲鍵

Urea bonding



# 1000 series

電子澆注劑/絕緣劑 Electrical Casting Material





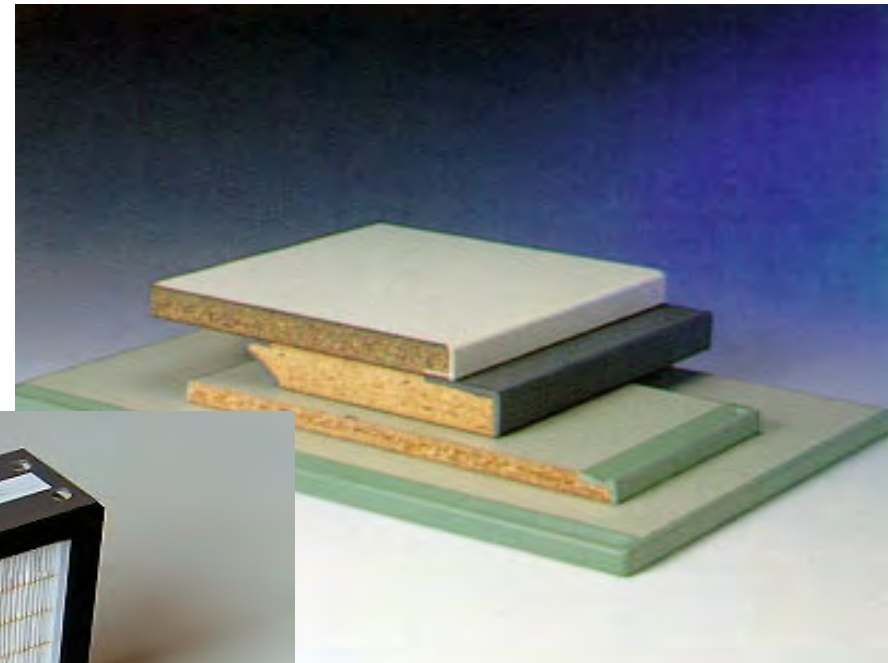
# 2000 series

工業接著劑 Industrial Adhesive

Adhesive for battery  
電池用接著劑



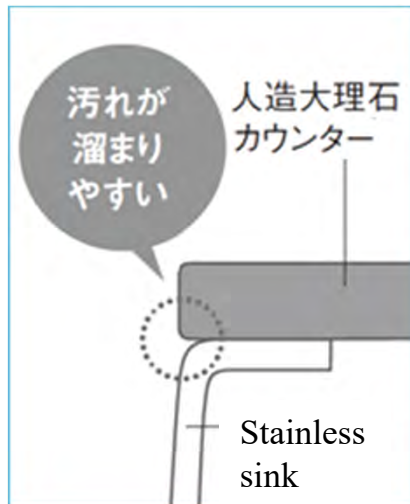
Casting & Adhesive for table edges  
桌緣用澆注與接著劑



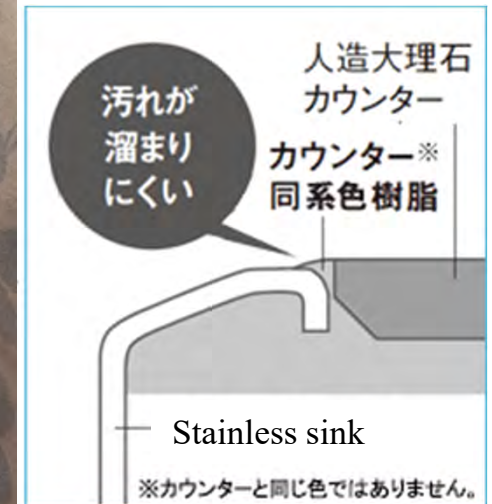
Adhesive for clean room filter  
潔淨室過濾器用接著劑

# 2000 series

工業接著劑 Industrial Adhesive



傳統水槽  
Traditional sink



無縫水槽  
Sink without gaps

Built-in kitchen  
內建融合式廚房



# 3000 series

一般注型劑 General Casting Material

Artistic handicrafts  
藝術工藝品



Hobbies  
玩具公仔



# 3000 series

食物様品 Foods sample



2014 限定

メサージュショコラビス

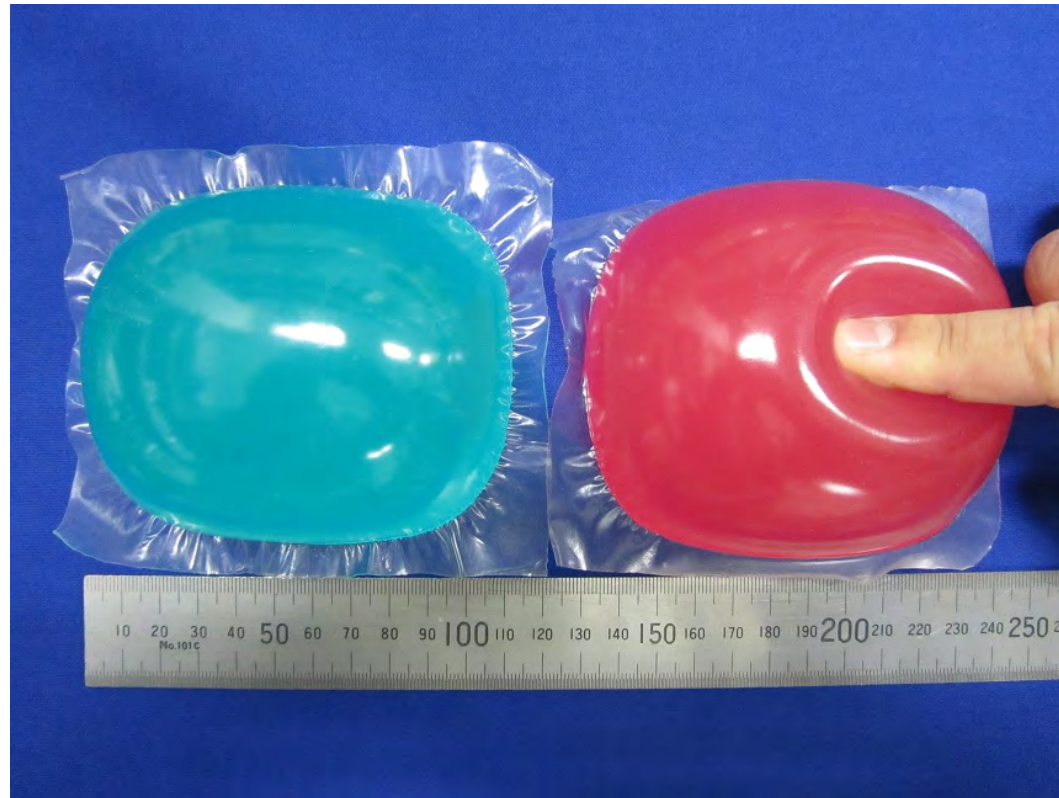


2014 限定

メサージュショコラアムール

# 3000 series

聚氨酯凝膠 PU gel



# 3000 series

真空注型劑 Resin for Vacuum Casting



真空注型設備/恒溫箱

# 3000 series

低壓注型劑 Resin for Low Pressure Casting

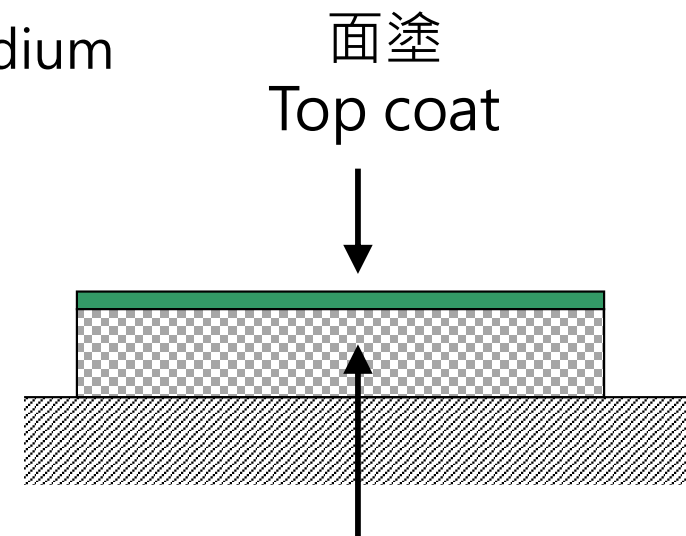


# 4000 series

彈性鋪路材料 Elastic paving material

◇ 高爾夫球場、田徑場等

Kurt road of golf course/Athletics stadium



橡膠片 + 接著劑  
Rubber chips + PU Binder





# 4000 series

彈性鋪路材料 Elastic paving material

## ◇軟木接著劑

Cork chips + PU Binder



# 5000 series

聚氨酯發泡 Polyurethane Foam

- ◇ 空氣過濾器端板  
End plate of air filters



汽車空氣過濾器端板  
Rigid / Semi-rigid PU foam for car air filters



# 5000 series

聚氨酯發泡 Polyurethane Foam

## ◇纖維桶用封包材

Packing for fiber drums



## ◇其他

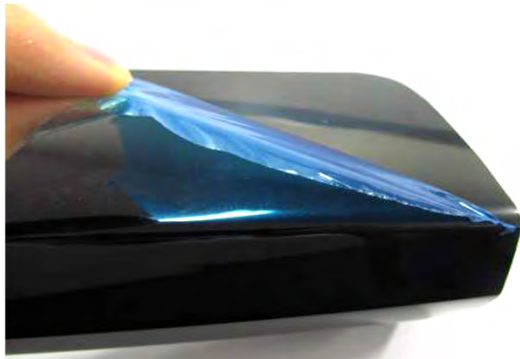
醫療模型等

Medical model

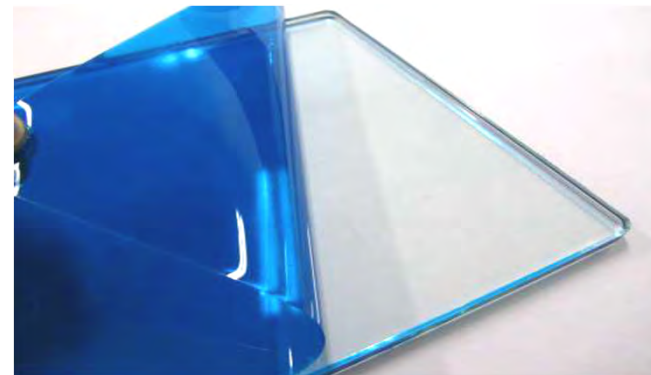


# 6000 series

水性可剝塗料 Water-Based Peelable Paint  
水性彈性塗料 Water-Based Softfeel Paint



在零件上塗覆



透明原型、玻璃之  
損傷和油污防止



軟質 ( 橡膠觸感 ) 塗料

# 7000 series

脱水劑 DH Paste

脫模劑 Releasing agent

有機矽膠補土 Silicone Putty



DH Paste



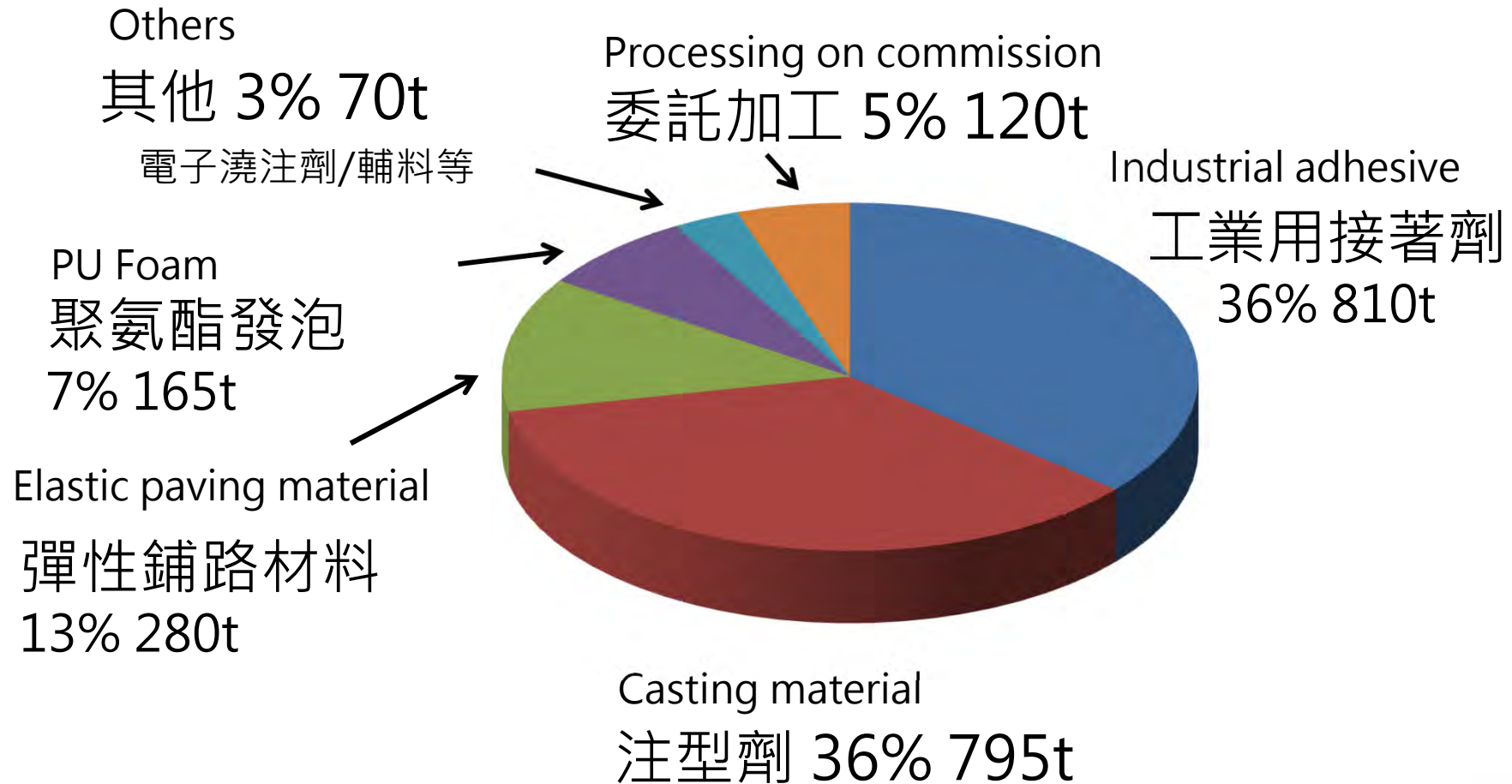
Hei-Remover 7001SP  
Hei-Remover 94FX  
Releasing agent



Hei-Tool S7691  
Silicone Putty

# 產量和用途

## Production & Application



2022年產量 2240t

Production volume of 2022 2240t

