1. INTRODUCE

- COMPANY NAME: HY ROBOTICS CO., LTD (SOUTH KOREA)
  - HYROBOTICS CORP (USA)
- PRESIDENT: KANG, DAE WOONG (KOREA) / SAM LEE (USA)
- ADDRESS:
  H.Q.: 173-228, GAJWA-1DONG SEO-KU
  INCHEON, SOUTH KOREA
  U.S.A: 5988 MID RIVERS MALL DR.
  SAINT CHARLES MO 63303, USA
- BUSINESS: TAKE-OUT ROBOT FOR INJECTION MOLDING MACHINE AND FACTORY AUTOMATION
- EMPLOYEE: 52 PERSONS (Full Time Only, Rep is not included)
2. HISTORY

03. 1992 Registered “Take out Robot” as a product name
   (Introduced 1st Generation Swing Type Robot: TOP Sprue Picker Robot)
10. 1993 Acquired “Q Mark” (Quality assured company) (Introduced Traverse Robot: Inverter Motor Type)
04. 1996 Awarded 20th “Productivity Grangprix” by the Minister of commerce and Industry Department of Korea
   (Introduced 1 Axis Servo Traverse Robot)
09. 1996 Established “Technical Research Institute”
   (Developed 2nd Generation Swing Type Robot: TOPII Sprue Picker Robot)
04. 1997 Awarded 21th “Productivity Contribution Grangprix” by the President of South Korea.
   (Developed 3rd Generation Swing Type Robot: TOPIII Sprue Picker Robot: 4000 units installed)
12. 2000 Changed company name to HANYANG PRECISION ROBOT CO., LTD.
07. 2002 Developed 4000 tons Servo Robot for the first time in Korea (3 Axis Servo Traverse Robot: TSIII)
04. 2002 Developed Intelligent 7 axis take-out robot (Start to export Robot to USA)
10. 2002 Patent Pending for Insert Automation System
11. 2002 Patent Pending for Insert Automation System
09. 2003 ERP Success Story Presentation for Incheon Chamber of commerce and Industry
01. 2004 Company CI change: HY Robotics (HYROBOTICS)
04. 2004 Traverse take-out robot developed for 2 Color injection molding machine
09. 2004 Acquired The ISO 9001:2000 Certification
11. 2004 Acquired CE Mark (TOPIV)
03. 2005 Established HYRobotics Corp. in USA.

OVER 7,000 Swing Type Robots, 2,000 Traverse Robots, 1,000 automation units installed worldwide since 1988
3. PRODUCTS

- Take-out Robot
  - SWING TYPE ROBOT
  - TRAVERSE TYPE ROBOT
  - SIDE TYPE ROBOT

- FA
  - ASSEMBLY MACHINE
  - CUTTING MACHINE
  - INSERT SYSTEM
  - STOCK SYSTEM & CONVEYOR

End of Arm Toolings.
4. CERTIFICATION

PATENT
"MOTION SETTING METHOD AND EQUIPMENT OF TAKE-OUT ROBOT"
"MOTION TIME CONTROL METHOD OF TAKE-OUT ROBOT"
"INSERT POSITION MEASUREMENT OF TAKE-OUT ROBOT" ETC.

UTILITY MODEL
"INSERT EQUIPMENT OF TAKE-OUT ROBOT"
"CONTROL EQUIPMENT OF BELT TENSION"
"MOTION STEP CONTROL EQUIPMENT" ETC.

INDUSTRIAL DESIGN
"AUTO-TAKE-OUT OF PRODUCT" ETC.

ISO 9001:2000
CE
5. CUSTOMERS

Suppliers for

- SAMSUNG ELEC. (MOBILE. & APPLIANCE)
- LG ELEC. (MOBILE. & APPLIANCE)
- HYUNDAI MOTORS
- KIA MOTORS
- DAEWOO MOTORS
- SCHEFENACKER AUSTRALIA
- ETC.
### 2003 Industrial Robot Units in Plants of Each Country

<table>
<thead>
<tr>
<th>Country</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>348,700</td>
</tr>
<tr>
<td>Germany</td>
<td>112,700</td>
</tr>
<tr>
<td>Korea</td>
<td>48,000</td>
</tr>
</tbody>
</table>

### 2004 Annual Sales Q’ty

<table>
<thead>
<tr>
<th>Country</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>33,200</td>
</tr>
<tr>
<td>Germany</td>
<td>14,100</td>
</tr>
<tr>
<td>U.S.A</td>
<td>12,800</td>
</tr>
<tr>
<td>Italia</td>
<td>5,500</td>
</tr>
<tr>
<td>Korea</td>
<td>5,457</td>
</tr>
</tbody>
</table>

### 2004 Robot Market in Korea

- Production in Korea: 1150 Billion Won
- Korea Market: 1707 Billion Won
- Export Q’ty 2085 Units (25.8% increase)
- Import Q’ty 3868 Units (9.5% Increase)
### 6. VISION(2)

#### 2004 Robot q’ty for 10,000 employee (Percentage of Robot with Employee)

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>322</td>
</tr>
<tr>
<td>Germany</td>
<td>148</td>
</tr>
<tr>
<td>Korea</td>
<td>138</td>
</tr>
<tr>
<td>Italia</td>
<td>116</td>
</tr>
<tr>
<td>Sweden</td>
<td>99</td>
</tr>
<tr>
<td>Finland</td>
<td>78</td>
</tr>
</tbody>
</table>

#### 2005 Robot Consumption (Researched by Fuji Research Institute in Japan)

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia</td>
<td>64.5%</td>
</tr>
<tr>
<td>USA</td>
<td>17.2%</td>
</tr>
<tr>
<td>Europe</td>
<td>16.1%</td>
</tr>
<tr>
<td>Etc</td>
<td>2.2%</td>
</tr>
</tbody>
</table>

**Japan has 46% of Asia 64.5%**

#### Usage of Robot

- Automotive Assembly (Large size) → Electric Consumption (Small)
6. PICTURE 3

PLANT

HYROBOTICS CO., LTD. -3-
6. PICTURE 4

PLANT
TRAVERSE ROBOT ASS’Y LINE
6. PICTURE 7

SWING ROBOT ASSEMBLY LINE
6. PICTURE 9

SWING TYPE LINE PRODUCTION
6. PICTURE 10

SHIPPING

SWING PACKAGING
SALES OFFICE
6. PICTURE 17

DORMITORY
7. INSTALLATION 1

HY 650 tons Robots in SCA, INC AUBURN ALABAMA, USA
7. INSTALLATION 2

HY 4000 tons Robot in DAEGU, SOUTH KOREA
7. INSTALLATION 3

HY 250 Tons Side Robot in RUSSIA
7. INSTALLATION

HY SIDE VERTICAL Picker in Seoul, SOUTH KOREA
HY 100 ~ 250 Tons Robot in Incheon SOUTH KOREA
HY 100 ~ 250 Tons Robot in Incheon SOUTH KOREA
HY 1300 tons Robot in MEXICO
HY 2200 tons Robot in South Korea
HY 2200 tons Robot in South Korea
7. INSTALLATION 11

HY 250 ton Robot KENT, OHIO, USA (ENTERPRISE PLASTICS)
HY 35 ton Robot ST. LOUIS, MISSOURI, USA (TABOR PLASTICS)
HY 100 tons Robots
IN THE PAST, WE WORKED SO HARD TO MEET CUSTOMER’S EXPECTATION AND CREATED VALUE OF OUR COMPANY.

TODAY, WE KEEP ADDING VALUE ON CUSTOMER’S MACHINES AND HELP THEM TO PICK MORE PROFIT FROM THEIR OPERATION.

TOMORROW, WE WILL BUILD NEXT GENERATION ROBOT WHICH IS MOST ECONOMICAL, ROBUST AND FLEXIBLE IN ORDER TO MEET FUTURE AUTOMATION REQUIREMENT FOR OUR CUSTOMERS.

SYSTEM THAT WORK, DESIGNED AND BUILT BY PEOPLE WHO KNOW AND CARE! HYROBOTICS!

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