

WE WEIGH THE WORLD™

# CAS Corporation

CAS

# WE WEIGH THE WORLD™

CAS corporation is a company that leads the standard of industrial and commercial measurement systems that centers around digital scales. We were founded in 1983 under the slogan “We weigh the world”, and have achieved the main standards of measurement in various countries. Our products are exported to 120 countries through 11 overseas branches, and our products are valued very much overseas.

- **Founding date : April 19th, 1983**
- **Company object : A company that can compete on the international level of measurement with basis in sensor and digital technology**
- **Slogan : We weight the world**



## 21 CENTURY

## 20 CENTURY

- 1983 Company established
- 1989 Acquired FCC US Official Standards
- 1990 Acquired NSC Australian Measuring Verification Standards  
Assigned as a National Verification and Correction Facility (177)  
Established CAS USA
- 1991 Acquired NBS US Measuring Verification Standards  
Approved by NTEP & UL, US Safety Standards
- 1992 Developed strain gage  
Developed the first label printer in the Korean market  
Established CAS Turkey
- 1993 Approved by CSA (Canada)
- 1994 Established CAS Russia  
Acquired the first OIML, EU Standards
- 1995 Established CAS China
- 1996 Established Shanghai factory in China  
Acquired the first ISO 9001 in the Korean weighing industry
- 1997 Established CAS TSC (service center) in Russia
- 1999 Established CAS India  
Acquired EC Self-Verification Certification

- 2000 Awarded the Best Certification Company by ISO9000
- 2001 Awarded the Best Certification Company by ISO9000 for two consecutive years  
Awarded the best prize for Precision technology  
Acquired Japanese NMIJ Standards Certification  
Established CAS New Zealand
- 2002 Awarded the Best Global Company by Japanese Management Association  
Awarded Russia Golden Balance 2002
- 2003 CAS Europe Tour
- 2004 Established CAS Poland
- 2005 Granted 30 million dollar export Tower from the government  
Established CAS Deutschland  
Established CAS Bangladesh
- 2006 The first CAS Global Business Conference in Korea
- 2007 The second CAS Global Business Conference in Korea  
Awarded the Global Star prize  
Awarded the Techno CEO prize
- 2008 The third CAS Global Business Conference in Korea  
Acquired certificate of quality control system of medical instrument  
Selected as a electric scale providing company in Chinese standardized market
- 2009 Fourth CAS Global Business Conference in Korea  
Established CAS Nicaragua
- 2010 Established CAS Bangladesh Chittagong Service center/office
- 2011 Acquired as Self-National verification & correction Facility from Korean Agency for Technology and Standard
- 2012 Established CAS Vietnam
- 2013 Jiashan factory, China, completed  
Nominated for WC300  
Established CAS Chemical  
Established CAS E&C



## Come And Succeed

**CAS main field of business :**  
**Digital scales and detailed measurement (Weighing + Measuring)**

**A company that manages the national standard**

(Service channel industry. Industry with possible additional service creation)

**Key industry with a high ripple effect in various businesses**

(Industry with high expandability)

**A highly expandable and technologically intensive industry**

# CAS



## Product



Label Printing Scale CL7200



Label Printing Scale CL5500-P



Label Printing Scale CL5500-D



Label Printing Scale CL5000J-CP



Price Computing Scale EB



Price Computing Scale AP-1



Price Computing Scale CP500



Price Computing Scale ERPLUS



Price Computing Scale PRPLUS



Waterproof Scale FW500

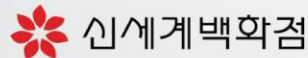


Basic Scale SW-1S



Basic Scale SH

## Partnership



## ■ Product



Top-Loading Balance XE



Top-Loading Balance CBL



Top-Loading Balance CU



Precision Platform Balance CBX



Analytical Balance CA



Analytical Balance CAU



Precision Moisture Analyser XC63



Micro Weighing MW-IN



Micro Weighing MW-IIN



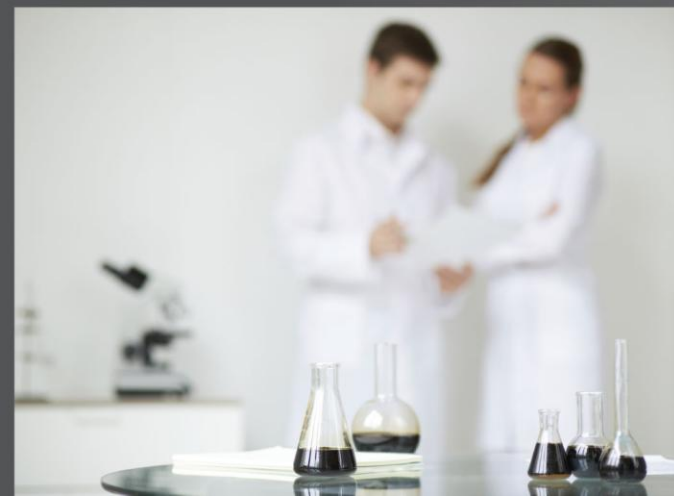
Micro Weighing MWP



Pocket Scale RE Series



Weight Set F1



## Product



Crane Scale **CASTON-III<sup>PLUS</sup>**



Counting Scale **EC-II**



Weighing Controller **CI-600A**



Portable Bench Scale **PB**



Vehicle Weighing Scale **RW Series**



Fork Lift Scale **CFS**



Logistics Inspection System **CLIS Series**



Floor Scale **HFS / Indicator Stand**



Counting Bench Scale **AC**



Bench Scale **CWP**



Bench Scale **DB-1H**

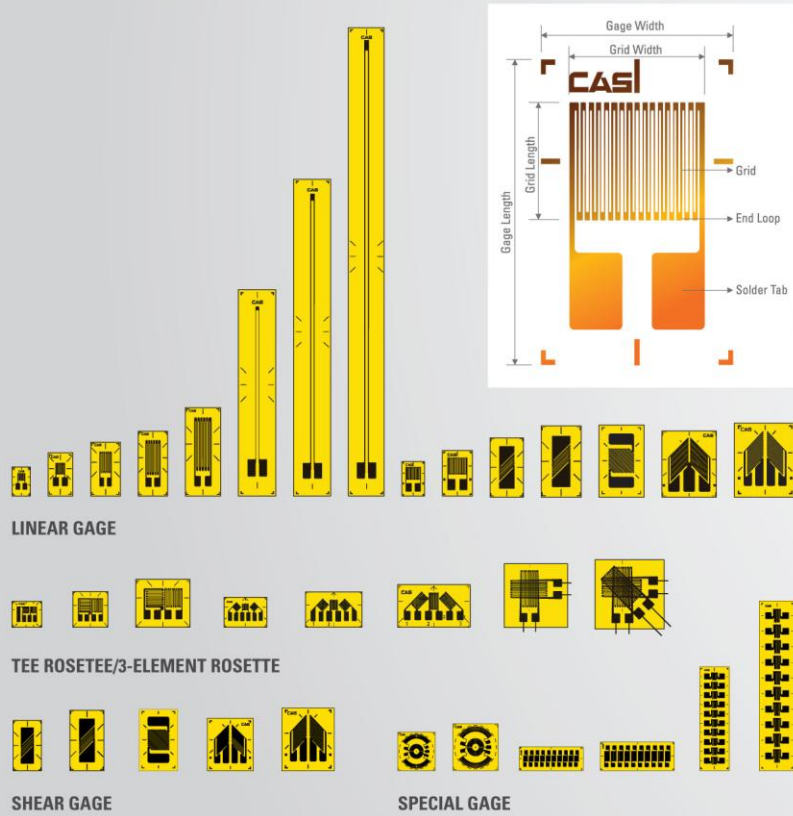


Pallet Scale **CPS**

## Partnership



## Strain Gage



## Load Cell

### Single Ended Shear Beam Load Cell



### Pancake Load Cell



### Canister Load Cell



### Double Ended Shear Beam Load Cell



### Platform Type Load Cell



### Explosion Proof Load Cell



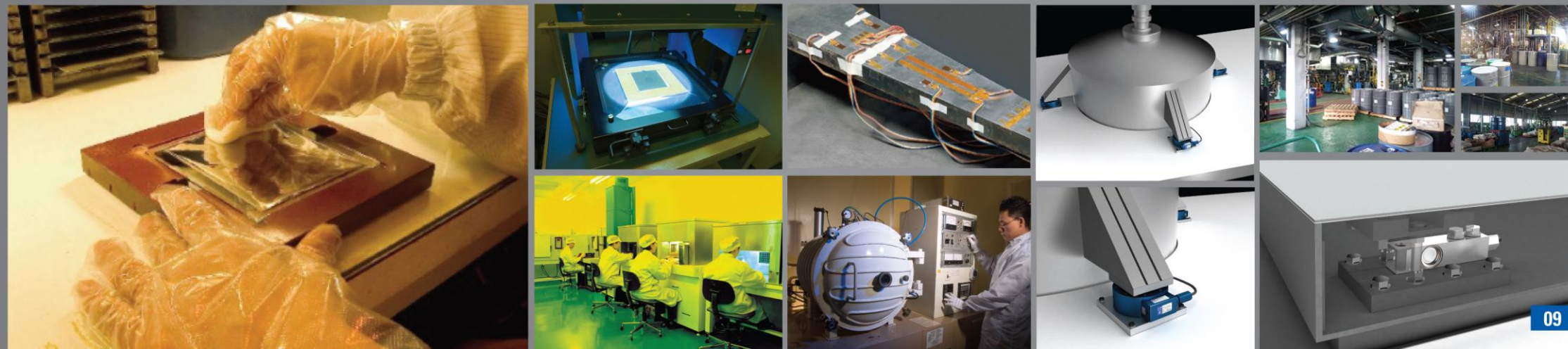
### Digital Load Cell



### S-Type Load Cell



### Special Load Cell



## Product



Body Fat Scale GBF-950



Digital Personal Scale X-Series



Ultra Slim Activity Tracker R3



Kitchen Scale K2



Digital Timer K2



Humidity & Temperature Monitor T003



Aroma Diffuser Ultrasonic Humidifier D2



Toothbrush Sanitizer CLB-3000 / 500



Infrared Ear Thermometer RB600



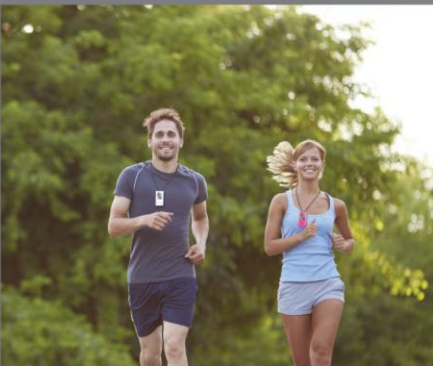
Digital Blood Pressure Monitor LS-808



Night Light T3



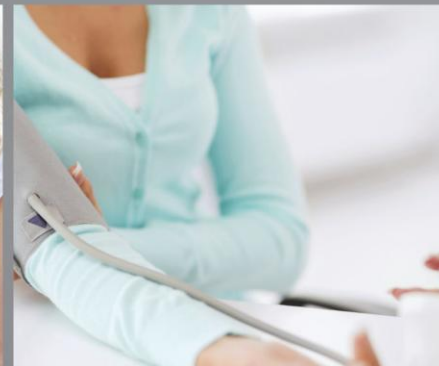
Paraffin Bath BP-1



DIET



LIVING



MEDICAL



BABY



BEAUTY

## Product



MICROMETER



VERNIER CALIPERS



TORQUE WRENCH



DIAL INDICATOR



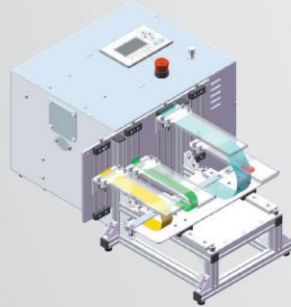
THREAD GAUGE



PUSH FULL GAUGE



MULTIMETER



ENDURANCE TESTERS



RESIDUAL OXYGEN METER



SCALE LUPE



THERMOMETER



## CAS GALILEO

Provides 35,000 professional measurement products in Korea



# CAS RETAIL

CAS Retail is a printing specialty operating division of CAS Inc, who has been leading the distribution market for 30 years, and it produces the best products with leading equipment and printing technology in the domestic and overseas consumables distribution market and is a company that grows with the customer.



Printer Label

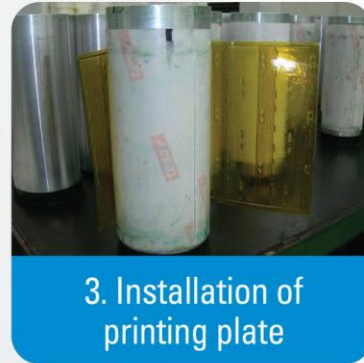


Sticker



Paper

## ■ Manufacturing Process



# CAS CHEMICAL

CAS Chemical is the only coating specializing company that uses Korean materials and Korean technology. We have developed ink and back coating liquid ourselves and our technology has been accepted as the best. We minimize damage to the printer head through the technology and decrease cost and effort on replacing the head. We are also doing our best to maintain the best quality through print quality, durability, preventing static, printing speed, noise, printer compatibility, and label adaptation value.

## ■ Ribbon Property

<p><b>CCR 10</b>   WAX</p>		<p>Standard Wax Ribbon for Flat Head</p>
<p><b>CCR 30</b>   WAX/RESIN</p>		<p>Wax/Resin Ribbon for Flat Head</p>
<p><b>CCR 40</b>   WAX/RESIN NEAR EDGE</p>		<p>Wax/Resin for Edge Head</p>
<p><b>CCR 50</b>   RESIN</p>		<p>Resin Ribbon for Flat Head</p>
<p><b>CCR 60</b>   RESIN NEAR EDGE</p>		<p>Resin for Edge Head</p>
<p><b>CCR 90</b>   WASH CARE RESIN</p>		<p>Wash Care Resin Ribbon</p>

## ■ Manufacturing Process

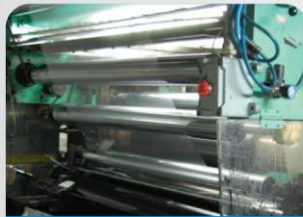
CAS Chemical works endlessly to give bigger value to the customers.

We have an excellent computer control system that regulates all the stages from the raw materials to the final product.

The production facility based on CAS' unique coating system and back coating technology allows for quality control maintenance and low cost production by combining the ink production process and the ink coating process.



1. In line ink production



2-1 Coater head



2-2 UN- Winder  
(Machine that unravels film)



2-3 RE-Winder  
(Machine that rewinds the film)



2-4 Dryer



3. Converting process



# CAS E&C

CAS E&C seeks to play an important role in the automation process of factories through creating and engineering scales that automatically measure and pack various industry products such as chemicals for semiconductors, oil products, basic chemical products, cement, fertilizer, and food, an automatic packing system for bodies and liquids, an industry measuring scale, and automobile measuring systems by implementing and naturalizing leading technology for the past 22 years.



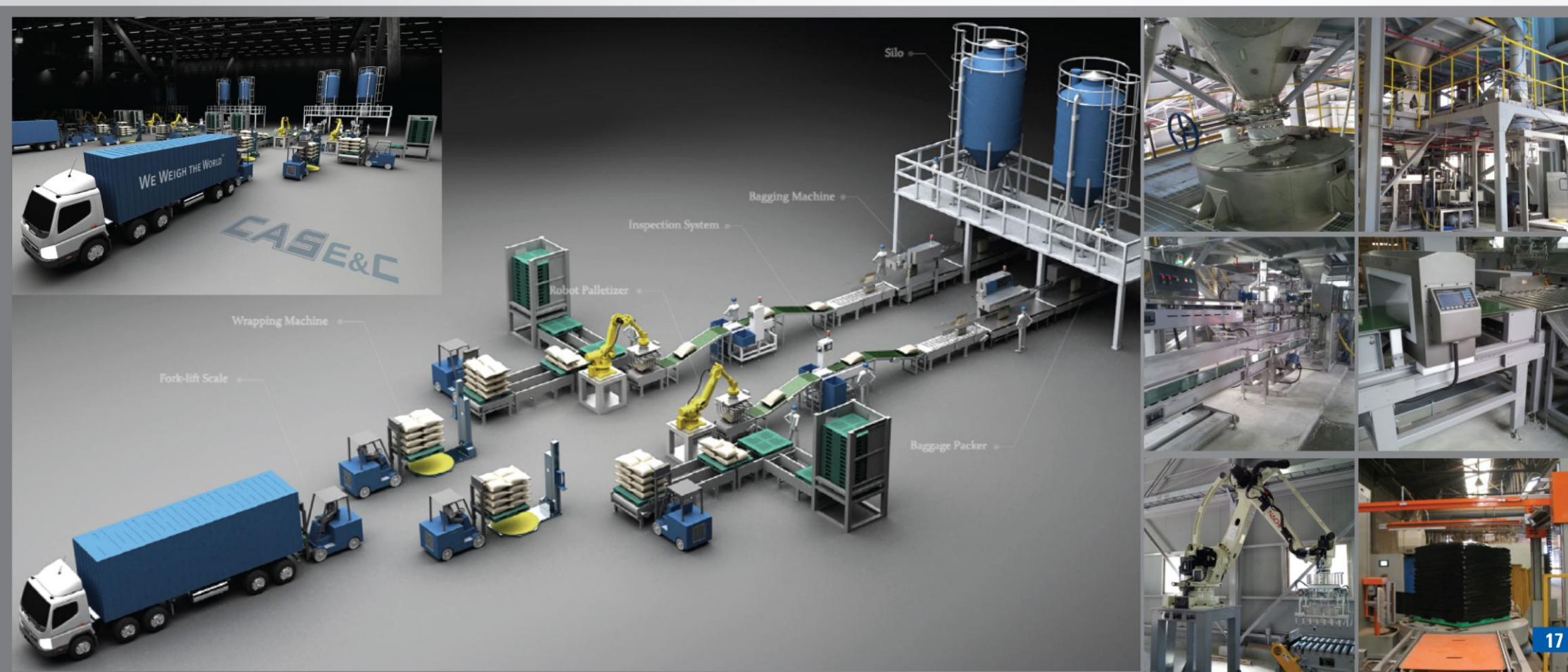
**AUTO PACKAGING SYSTEM**



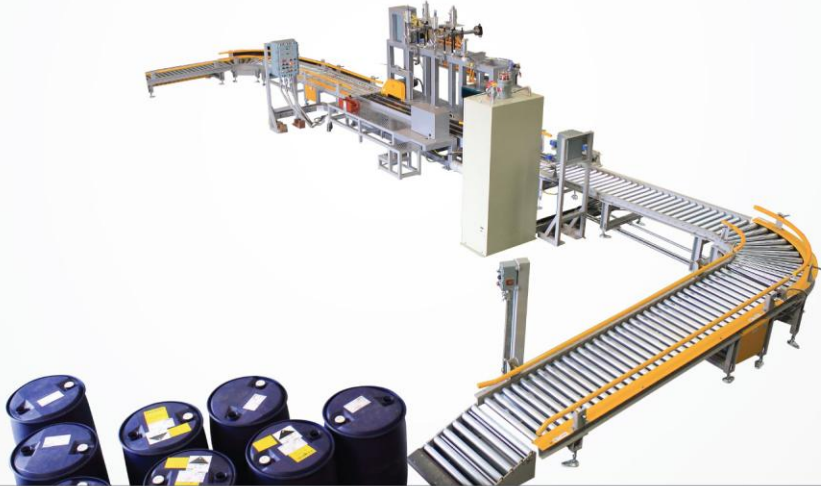
**PALLETIZING SYSTEM**

## ■ CAS PACKAGING SYSTEM

CAS E&C automatic system can be applied to various industry environments, and can manage quality and stabilize the work environment. CAS E&C provides the ideal automatic system through installation consulting that matches the environment.



# ■ AUTOMATIC DRUM FILLING SYSTEM



UN-CAPPING MACHINE



N2 PURGE MACHINE



FILLING MACHINE



CAPPING MACHINE



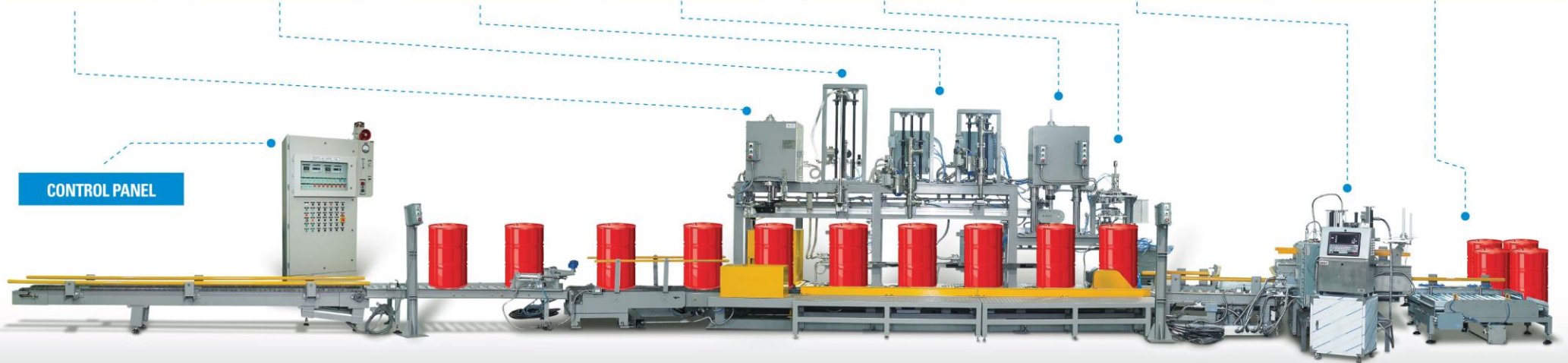
VINYL CAPPING MACHINE



AUTO LABELING MACHINE & LOT. NO. PRINTER



AUTO PALLETIZER



CONTROL PANEL



> 68 products with universal measurement certification



> 34 products with US measurement certification



> 102 products safety certified by Europe



> 9 products safety certified by US & Canada

## Measurement Certification

**Total 196**

Acquired areas:  
universal, Europe,  
USA, Australia,  
Japan, New Zealand,  
Canada, South Africa

## Safety Certification

**Total 114**

Acquired areas:  
USA, Canada,  
Europe

# GLOBAL & DOMESTIC SALES NETWORK

400 executive and staff members are working together in the Korean headquarters and in its 17 Korean branches, and we organized to reply quickly to a customer's needs anywhere in the country. We are directly advanced into 11 countries including USA, China, India, Russia, Germany, Turkey, and Vietnam, and other countries have on-site agents services on the same level.



CAS Headquarter



CAS Russia



CAS Germany



CAS USA



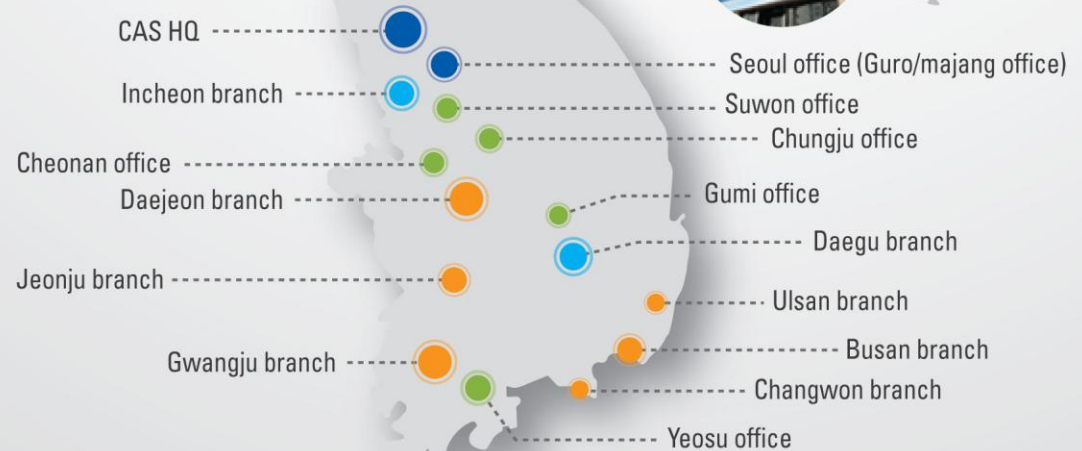
CAS Turkey



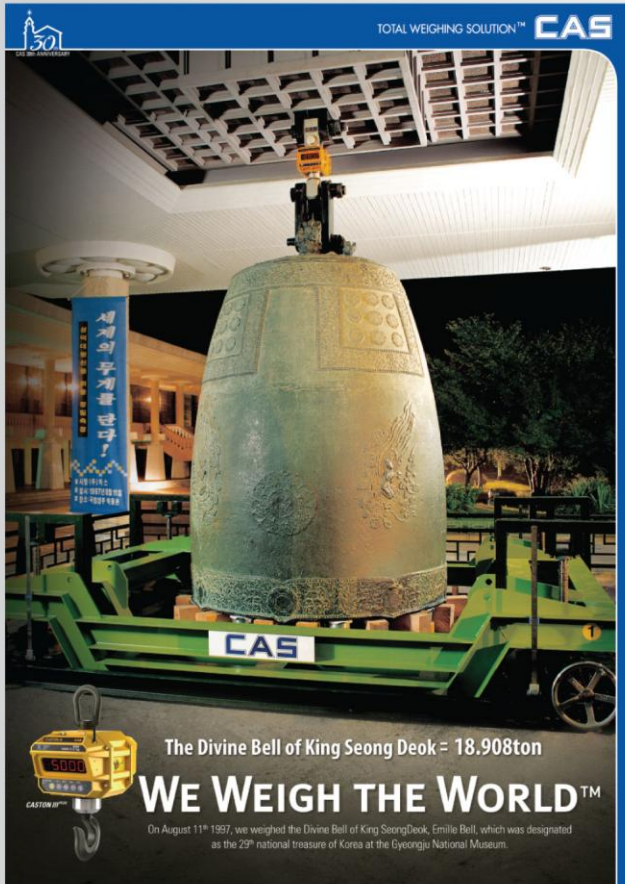
CAS India



CAS China



## Weighed for the first time Korea's biggest Buddhist bell, the Dine Bell of King Seong Deok



TOTAL WEIGHING SOLUTION™ CAS

**The Divine Bell of King Seong Deok = 18.908ton**

**WE WEIGH THE WORLD™**

On August 11<sup>th</sup> 1997, we weighed the Divine Bell of King Seong Deok, Emille Bell, which was designated as the 29<sup>th</sup> national treasure of Korea at the Gyeongju National Museum.

## Measuring the weight of Korean Air A380, the biggest airplane in the world



TOTAL WEIGHING SOLUTION™ CAS

**WE WEIGH THE WORLD™**

**A380 = 280ton**  
We weighed the Korean air A380 on June 1<sup>st</sup> 2012.

**We weigh the world's largest aircraft A380.**  
Our simple dream that we weigh the world is still continuing.

## KAIST HUBO robot that uses CAS' special load cell



TOTAL WEIGHING SOLUTION™ CAS

**WE WEIGH THE WORLD™**

**The key is the sensor technology.**

The core technology task of robot and automation is the about the sensor. CAS has developed and produced the core element of Load cell, Strain gage, with its own technology and applied it to various circumstances from laboratory to large scales such as the truck, train, and airplane. The future of sensor technology is waiting for more progress. For that, CAS will give it a more effort to make it and do the best.

ISO 9001 TÜV CE

### Measuring the weight of history of 1200 years!

On August 11th, 1997, CAS weighed the Divine Bell of King Seong Deok, Korea's biggest Buddhist bell, for the first time. The bell was estimated to be about 20 tons from record of the Heritage of the Three States that stated that it was made of 120,000 geuns of copper. A cutting-edge measurement device was developed over the course of a year, and the weight was 18.908 tons, which is about the same as 15 mid-sized cars.

### Measuring the weight of the biggest airplane in the world

We weighed A380, the biggest airplane in the world, in Korean Air's maintenance shop. "System W380", a system CAS developed for the first time in the world, accurately measured Korean Air's newest passenger plane and proved its functionality. The airplane's weight is 280 tons, and it was measured to the accuracy of a single kg unit.

### The core task to robots and automatic technology is the sensor technology!

CAS developed the strain gauge that is a core to the load cells and the gauge was used for ultra-detailed scales for laboratories as well as scales that weigh large trucks, trains, and airplanes. We also developed special load cells for the KAIST HUBO that represents cutting-edge technology, and CAS' sensor technology is being used for dynamic tests in the space aviation sector.

# Thank you



*CAS factory in Jiashan*