

Korea's Leading Manufacturer of Antiterrorism Protection Systems

D&S TECHNOLOGY

PERIMETER SECURITY SOLUTION



COMPANY HISTORY

D&S TECHNOLOGY

Founded June 3, 1989 as a venture business and Inno-Biz SME

CEO Mr. Wonwoo Lee (B.S. in Electronic Engineering, Yousei University; M.S. in Electronics Engineering, University of Southern California)

Location Head Office / R&D Center
#201, 202 Unit-B 471, Gangseo-ro, Gangseo-gu, Seoul, Korea (Magok-dong, Amco Geniustar)

Website www.dnst.co.kr

Capital raised KRW 2.3 billion(FY 2015)

Sector of business Security systems
(special security and systems security)

EARLY YEARS 1989-1999

- 1989** Founded DongShin Computers (KRW 200 million in capital)
- 1992** Renamed DongShin Systems
Developed and supplied 365 banking access control system
- 1994** Developed "General Access Control System"
- 1995** Developed Mega ACS
- 1998** Developed Key Management System
- 1999** Established a Subsidiary Research Center

GROWTH YEARS 2000-2011

- 2000** Renamed D&S Technology
Relocated Head Office (to Guro-gu, Seoul)
Registered as information and communication contractor
Registered as venture business
- 2001** Capital increased (KRW 1 billion)
Developed unmanned home delivery system
- 2003** Awarded presidential citation
- 2004** Developed Ethernet-based access control system
- 2005** Awarded commendation by Minister for Information and Communication
- 2006** Awarded commendation by Minister for Foreign Affairs and Trade
Road blocker registered as excellent public procurement product
- 2008** Capital increased (KRW 2.3 billion)
- 2009** Relocated Head Office (to Gangseo-gu, Seoul)
- 2010** Issued patent for road blocker
(No. 10-0970234) / (No. 10-0997805)
- 2011** Road blocker registered as excellent public procurement products
Road blocker registered as excellent invention
Acquired K-mark certification for road blocker

PRESENT 2012~

- 2013** Selected to install road blockers to control entry of vehicles at Sejong Government Complex
- 2014** Registered an Inno-Biz SME
- 2015** Production capacity certified (access control system)
- 2015** Designated a high-growth (gazelle) enterprise
- 2016** Patent issued for roadblock
Quality management system certified (ISO 9001:2008)
Certified by vehicle barrier crash-test standards of the U.S. Department of Defense



INTRODUCTION OF SHIHWA FACTORY



AWARDS



ROAD BLOCKER



The road blocker system uses a barrier that is raised and lowered to control access by vehicles and is particularly effective for stopping forceful entry by vehicles. From system design and development to construction of load-bearing structural body, as well as the hydraulic drive unit and electronic control technology, the Road Block system was built using original technologies that were successfully localized. Since being introduced in 2005 as the first locally developed system of its kind, the road blocker system has been supplied to major industrial facilities, airports, military bases, and more.

- Barrier width : 2 ~ 4m
- Barrier height : 650 ~ 1000mm
- Response speed : 1 ~ 3 sec.
- Certifications : Excellent public procurement product designation on the recommendation of the R.O.K. Minister of Defense, certified by the U.S Department of Defense

Produced at the D&S Technology factory, the road blocker system is designed, manufactured, installed, and maintained in accordance with ISO 9001 quality management standards and undergoes strict annual quality assurance evaluations by the Public Procurement Service and Korea Testing Laboratory.

D&S Technology makes every effort to ensure that all components of its system, even those that go unseen, are of the highest quality. To prevent corrosion, the production process includes a complex process that creates a 100 percent zinc galvanized body and adds a special powder-coating process; together, these steps ensure a quality system that will last more than 10 years.



[Zinc galvanized steel]

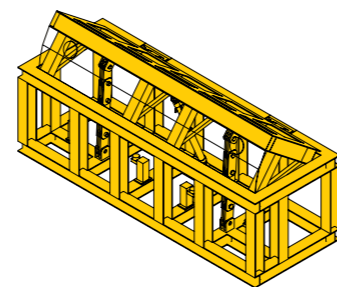


[Special powder coating]

PATENTED TECHNOLOGY



[Shock-bearing structural body]



- Shock-bearing structural body
- Designed for automated operation and height control in emergencies
- Equipped with special hinge to allow installation on an incline
- Hydraulic circuit control system to allow for continuous high-speed raising and lowering
- Low-power operating system
- Unmanned automated integrated security system technology

CERTIFIED IN U.S. DEPARTMENT OF DEFENSE VEHICLE CRASH TESTS



Before impact by a 6.8-ton truck traveling at 80 km/hr



After impact by a 6.8-ton truck traveling at 80 km/hr (front view)



After impact by a 6.8-ton truck traveling at 80km/hr (side view)

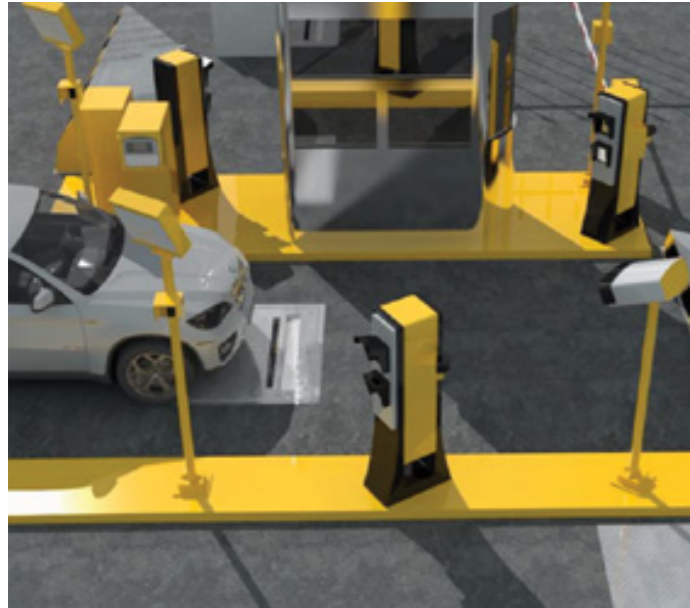


Operating as normal after impact

PATENTS AND CERTIFICATIONS

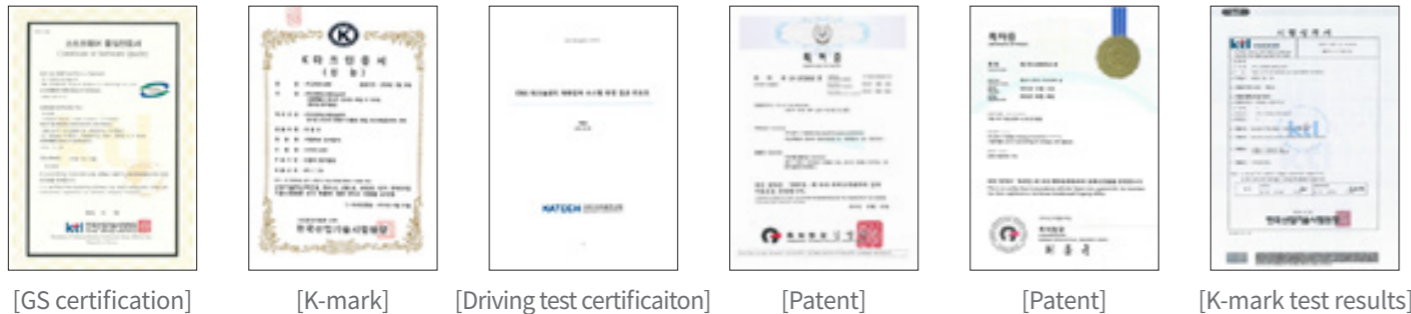


UNDER-VEHICLE INSPECTION SYSTEM



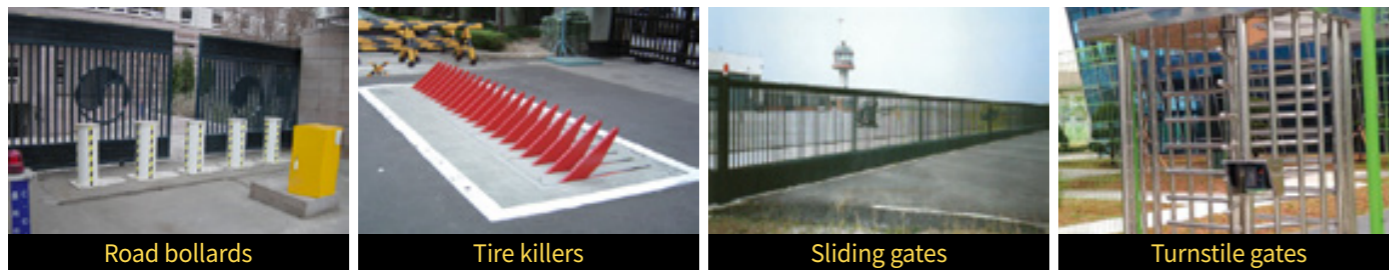
Under-vehicle inspection systems automatically scan the underside of each passing vehicle for explosives and other illegally attached objects. D&S Technology's under-vehicle inspection system was designed using search algorithm and operations software developed in house over a three-year period and allows for speedy and accurate inspection regardless of vehicle type, vehicle speed, and environmental conditions. In addition to being GS-certified, the system has passed the vehicle inspection tests of Korea's national certification body, making it the only such system in Korea with recognized functionality and excellence.

- Designed to conduct detailed scanning of the underside of vehicles in motion
- Able to scan at speeds of up to 40 km/hr
- Supports portable installation
- Automated video monitoring (linked license-plate recognition system)
- Supports quick saving and searching of videos
- Effective in various environmental conditions
- First system equipped with vehicle-model-recognition capabilities
- Highest recognition rate and accuracy in the country (over 90 percent)
- Fully waterproof (IP67 rating)



[GS certification] [K-mark] [Driving test certificaion] [Patent] [Patent] [K-mark test results]

PRODUCTS FOR SPECIAL SECURITY NEEDS

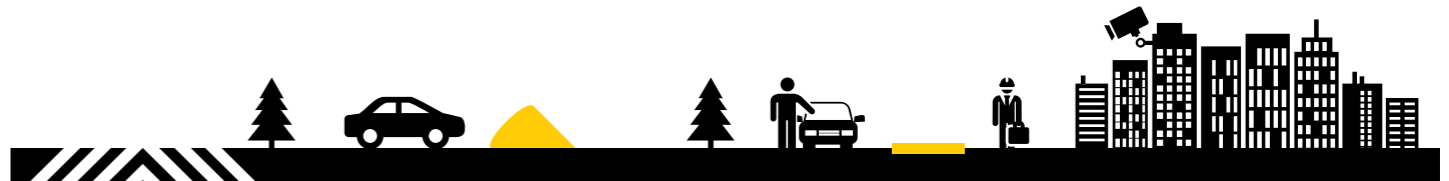


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| <p>Road bollards</p> <ul style="list-style-type: none"> · Hydraulic bollards · High-impact load capacity · High-speed operation · Available in a variety of sizes · Customizable designs · Galvanized steel and special powder coating | <p>Tire killers</p> <ul style="list-style-type: none"> · Hydraulic tire killers · High-strength steel plates · High-strength steel spike and blade configuration · Highest-speed raising and lowering (within two seconds) · Single-unit housing · Equipped with various safety systems · Supports automated and remote control | <p>Sliding gates</p> <ul style="list-style-type: none"> · Electronic sliding gates · Variety of operating mechanisms (single-and double-track types) · Available for design and manufacture in extra-large sizes (50-180m) · High-speed operation · Customizable design | <p>Turnstile gates</p> <ul style="list-style-type: none"> · Electronic turnstiles · Variety of designs (single and double types) · Fail-safe option · High-speed operation · Customizable design |
|---|---|---|--|



MAJOR INSTALLATIONS

PUBLIC AGENCIES			
Sejong Government Complex and two others	Korean embassy in Beijing and five other cities	Kori Nuclear Power Plant and three others	Suji Water Treatment Plant
MILITARY BASES			
ROK Armed Forces-Gyeryongdae complex and three other military bases	ROK Army-First ROK Army Command and four other army bases	ROK Navy-Commander Republic of Korea Fleet and two other naval bases	ROK Air Force-ROK 11th Fighter Wing and 14 other air bases
AIRPORTS			
Incheon International Airport	Gimpo International Airport	Gimhae International Airport	Jeju International Airport
OTHERS			
Sliding gate Incheon International Airport	Under-vehicle inspection system Korean embassy in Beijing	Tire killer OO Military Command	Turnstile gate Korean embassy in the Philippines



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