



## Cleaning System

THE LEADER IN TOTAL CLEANING EQUIPMENT MANUFACTURERS



**HANSHIN**TECH

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## HANSHIN TECH

Cleaning System



Hanshin Tech supplies customers with differentiated high quality products based on its accumulated technologies gained through its constant research and development efforts since its establishment. Based on our belief that advanced technologies are not only the best shortcut to enhancing national competitiveness and creating customer value, but the best way to ensure a high position for our company amidst keen global competition, all our executives and employee commit their utmost efforts for achieving our customers' satisfaction.

The growth and development of a company depends not only on confronting continuous challenges based on creative thinking, conceptual shifts, and differentiated new technologies but also its market preemption, achieved through a pioneering spirit and awareness of market trends and size.

With our high quality products, we are striving not only to expand our domestic market share but also to develop new markets around the world. We expect our customers' interest and support for our consistent efforts to become a global leading company based on our 21st century state-of-the-art technologies and talented human resources.

한신테크는 창업 후 끊임없는 개발을 통해 축적된 기술을 바탕으로 고품질의 차별화된 제품을 고객에게 안정적으로 공급하고 있습니다. 또한 앞선 기술력이 곧 국가경쟁력 향상과 고객가치 창출의 지름길이며, 치열한 글로벌 경쟁 속에서 우리의 위상을 굳건히 하는 최선의 길이라 믿으며, 전임직원이 최고를 위해 열심히 매진하고 있습니다.

기업의 성장과 발전은 창의적인 생각과 발상의 전환, 차별화된 신기술로 끊임없는 도전, 변화하는 시장의 흐름과 규모를 알고 Frontier정신으로 남보다 앞서 시장을 선점하는 것이 매우 중요합니다.

저희 한신테크는 고품질로서 국내뿐만 아니라 해외시장 개척을 위해 끊임없이 노력하고 있으며, 21세기 최첨단 기술과 핵심 인력을 바탕으로 글로벌 리더로 성장하기 위한 도전에 많은 관심과 성원 부탁드립니다.



## Company History

- |          |   |          |  |
|----------|---|----------|--|
| 1994. 4  | FOUNDED AS DOOYOUNG INDUSTRIES  | 1994. 4  | 두영산업으로 회사설립                                    |
| 1995. 3  | DEVELOPED ULTRASONIC GENERATOR  | 1995. 3  | 초음파 발생장치 개발                                    |
| 1996. 3  | STARTED MANUFACTURING OF ULTRASONIC CLEANERS  | 1996. 3  | 초음파 세척기 생산                                     |
| 1997. 4  | ESTABLISHED BUSAN BRANCH OFFICE   | 1997. 4  | 부산지사 설립  |
| 1997. 0  | CHANGED CORPORATE NAME TO HANSHIN ULTRASONIC ENGINEERING  | 1997. 10 | 한신초음파 엔지니어링 상호변경                               |
| 1998. 4  | DEVELOPED MULTI-FREQUENCY ULTRASONIC GENERATOR  | 1998. 4  | 다주파 초음파 발생장치 개발                                |
| 1999. 3  | STARTED EXPORT TO JAPAN (ULTRASONIC GENERATOR)  | 1999. 3  | 일본수출(초음파)                                      |
| 2000. 1  | DEVELOPED A GENERATOR CIRCUIT   | 2000. 1  | GENERATOR 회로 개발                                |
| 2001. 1  | PARTICIPATED IN AUTOMOTIVE SME EXHIBITION   | 2001. 1  | 자동차 중소기업 박람회 참가                                |
| 2003. 6  | ESTABLISHED CHINA BRANCH<br>REGISTERED AS A SUPPLIER OF SAMSUNG ELECTRO-MECHANICS AND SAMSUNG ELECTRONICS               | 2003. 6  | 중국지사설립<br>삼성전기, 삼성전자 협력업체 등록                   |
| 2004. 1  | COEX FAIR   | 2004. 1  | 코엑스 박람회  |
| 2005. 1  | MESH BELT PROCESS IMPROVEMENT<br>REGISTERED AS A SUPPLIER OF DOOSAN CORP  | 2005. 1  | MESH BELT PROCESS IMPROVEMENT<br>(주)두산 협력업체 등록 |
| 2006. 4  | CHANGED CORPORATE NAME TO HANSHIN TECH AND<br>RELOCATED MANUFACTURING PLANT   | 2006. 4  | 한신테크 상호변경 및 공장 신축이전                            |
| 2007. 3  | COMPLETED CONSTRUCTION OF 2ND CHANGWON FACTORY  | 2007. 3  | 창원 2공장 설립                                      |
| 2008. 6  | ESTABLISHED RESEARCH AND DEVELOPMENT DEPARTMENT   | 2008. 6  | 연구개발 전담부서 설립                                   |
| 2008. 7  | ACQUIRED ISO 9001 CERTIFICATION   | 2008. 7  | ISO 9001인증획득                                   |
| 2009. 6  | R & D   | 2009. 6  | R&D  |
| 2011. 5  | EXPORT TRW TO JAPAN - PARTS OF AN AUTOMOBILE<br>PARTICIPATED IN R & D ORGANIZED BY KOREA INDUSTRIAL COMPLEX CORPORATION | 2011. 5  | 일본 TRW수출<br>산업공단 주최 R&D 개발                     |
| 2012. 7  | ULTRASONIC CLEANER INDONESIA EXPORT   | 2012. 7  | ULTRASONIC CLEANER INDONESIA EXPORT            |
| 2012. 11 | PPS REGISTER  | 2012. 11 | PPS REGISTER                                   |
| 2012. 12 | ULTRASONIC BRAZIL EXPORT  | 2012. 12 | ULTRASONIC BRAZIL EXPORT                       |
| 2013. 5  | ULTRASONIC AMERICA EXPORT   | 2013. 5  | ULTRASONIC AMERICA EXPORT                      |
| 2013. 7  | AUTOMATIC CLEAN MACHINE RUSSIA EXPORT   | 2013. 7  | AUTOMATIC CLEAN MACHINE<br>RUSSIA EXPORT       |
| 2013. 9  | ULTRASONIC CHINA TIANJIN EXPORT   | 2013. 10 | 특허출원 도장전처리 초음파                                 |
| 2013. 10 | [PATENT APPLICATION] PAINTING PRE-PROCESSING<br>ULTRASONIC APPARATUS  |          |  |
| 2014. 2  | ULTRASONIC CLEANER INDONESIA  | 2014. 2  | ULTRASONIC CLEANER INDONESIA                   |
| 2014. 8  | CE CERTIFICATION  | 2014. 8  | CE인증 획득  |



## ○ AUTO CLEANING SYSTEM

### Feature

- Powerful cleaning
- Pump filtering
- In the same direction loading and unloading
- Using the product into the basket
- Automation of line for cleansing of target with high pressure spray and drying of the target
- Various machines parts cleaning

### Applications

- Various parts of machinery(case, press)



## ○ AUTOMATIC CLEANING SYSTEM

### Feature

- Dipping cleaning
- The organic / inorganic wash chemicals
- The various processes used in precision cleaning
- Use filtering system for each tank and ultrasonic
- Each tank can work with different processes

### Applications

- Applications: Chip, Screw, Camera module



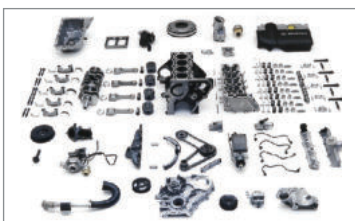
## ○ AUTO CLEANING SYSTEM

### Feature

- Spray cleaning
- Easy to spot and line connection
- Pump and oil separator
- In line compact system
- Spray, aircut and hot dry the automatic system

### Applications

- Aluminum, Pipe, Shaft, Section steel, Press plate





## AUTOMOBILE / MACHINERY



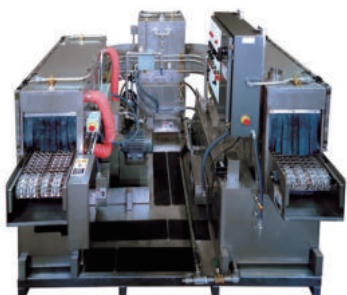
### ○ AUTOMATIC CLEANING SYSTEM

#### Feature

- Conveyor of tunnel type
- Cleaning system with functions of cleansing with spray and drying with air cut

#### Applications

- Basket, Shaft, Press plate



### ○ CONVEYOR U-TURN SYSTEM

#### Feature

- Spray cleaning
- Effective cleaning with less manpower in a small space
- In the same direction loading and unloading
- Mainly used to wash the product of a small size in a large quantity

#### Applications

- Various parts of machinery(case, press)



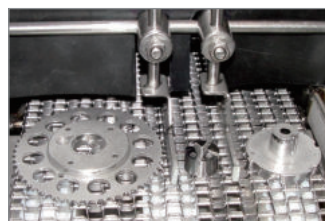
### ○ ULTRASONIC CLEANING SYSTEM

#### Feature

- Precision cleaning is difficult, suitable for many kinds wash

#### Applications

- Cable, Wire, Hose





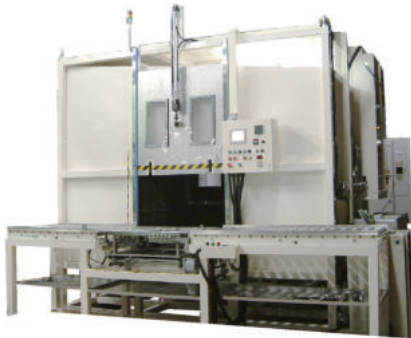
## ○ HIGH PRESSURE SPRAY CLEANING

### Feature

- Automation of line for cleaning of target with high pressure spray and drying of the target

### Applications

- Metals automotive parts, Automotive parts block, Cylinder head



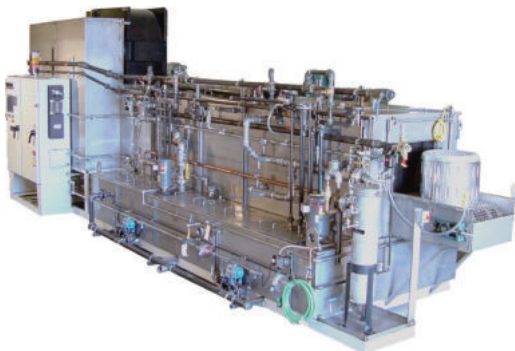
## ○ NOZZLE SPRAY CLEANING

### Feature

- High pressure injection system to clean the rotary nozzle
- Place the basket to use turn table
- Mainly used in automotive parts

### Applications

- AXLE housing, Parts of heavy equipment



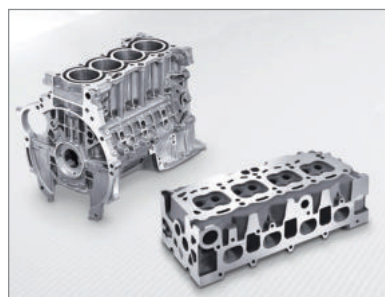
## ○ AUTO SPRAY CLEANING

### Feature

- Cleaning by spraying a certain pressure in a variety of products
- Washing and drying is carried out at the same time on the same line
- Install oil skimmer

### Applications

- Drum, Parts of automobile



## AUTOMOBILE / MACHINERY



### ○ AUTO CLEANING SYSTEM

#### Feature

- Spray cleaning
- Cleaning a variety of products to a machine at the same time
- Clean heavy load product

#### Applications

- Clutch gear, Shaft, Parts of automobile



### ○ AUTO CLEANING SYSTEM

#### Feature

- High pressure spray cleaning
- Automation of line for cleaning of target with high pressure spray and drying of the target

#### Applications

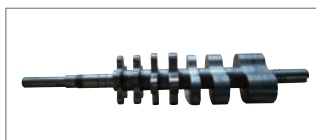
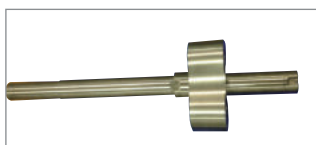
- Heavy machinery, Cylinder head



### ○ AUTO CLEANING SYSTEM

#### Feature

- Multipurpose cleaner for cleaning a variety of mechanical parts
- Alkali washing, alkaline rinse, turns 180 degrees drying







## ○ AUTOMATIC CLEANING SYSTEM

### Feature

- High precision parts lens cleaner
- In a variety of cleaning processes depending on the product characteristics
- Precision parts and lens cleaning



## ○ AUTO CLEANING SYSTEM

### Feature

- Camera components, LCD substrate components, TFT, LCD glass, cell phones, and glass washing clock is suitable for cleaning a variety of optical products, such as glass

### Applications

- TFT, LCD glass, Cellphone, Glass



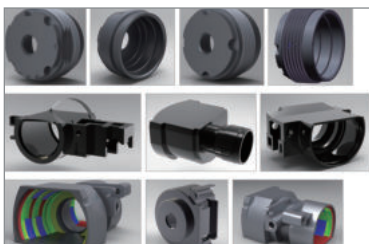
## ○ AUTOMATIC CLEANING SYSTEM

### Feature

- Washer and dryer ideal for LCD

### Applications

- Digital camera parts, Camera module, Lens, Backlight, Watch parts, Optical filter, Machined parts





## GLASSES / LENS / CELLPHONES



### ○ AUTOMATIC CLEANING SYSTEM

#### Feature

- Automatic ultrasonic cleaning equipments
- Suitable for alkali and solvent cleaning processes



### ○ AUTOMATIC CLEANING SYSTEM

#### Feature

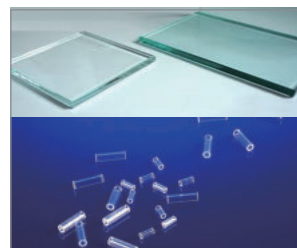
- Designed to clean optical lens and LCD glass automatically
- Cleaning system that can perform minute cleansing, rinse and drying



### ○ WATER PURIFICATION EQUIPMENT

#### Feature

- Production of ultra-pure water by reverse osmosis membrane
- Ultrasonic wave cleaning and ultra-pure water for the process deeping
- Optional design according to the water quality required and the intended use





## BOX CLEANING SYSTEM

### Feature

- System with function of cleaning with spray
- Automatic machine for washing and drying the plastic box
- Equipment for high pressure spray of nozzle, structure of air blower

### Applications

- Cleaning of boxes with various size



## AUTOMATIC CLEANING SYSTEM FOR PLASTIC CASE

### Feature

- Plastic washing
- Products transported to the tray
- Possible mass cleaning

### Applications

- Kind of plastics, Plastic tray



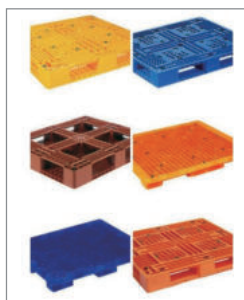
## AUTOMATIC CLEANING SYSTEM

### Feature

- Ultrasonic cleaning
- Using the IPA
- Each process can be fine cleaning

### Applications

- Plastic(PP, PE, ABS) parts



## PLASTIC / BOX / CASE



### BOX CONVEYOR CLEANING SYSTEM

#### Feature

- Deeping cleaning
- After inserting the product on a basket, basket transporting and cleaning
- Remove dirt and dust of each part
- System with function of cleaning with deposition in ultrasonic waves and drying with hot air

#### Applications

- Box, Plastic case



### PALLET CLEANING SYSTEM

#### Feature

- Chain conveyor transfer
- Washing, rinse, automatic system of drying
- Loading automatic a pallet of large quantity

#### Applications

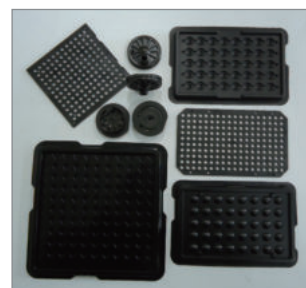
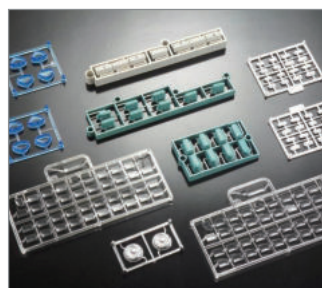
- Cleaning of pallet with various size



### AUTOMATIC CLEANING SYSTEM FOR PALLET

#### Feature

- Pallet sterilization and cleaning
- Automatic conveyor transfer, washing and drying
- Cleaning the oil, chips, dust to spray





# ELECTRONIC COMPONENTS- PCB BOARD



## ○ AUTO CLEANING SYSTEM FOR ELECTRONIC PARTS

### Feature

- Electronic components, circuit boards, hardware and systems for cleaning precision parts
- Automatically transfer a variety of industrial products from precision cleaning to drying

### Applications

- Electronic parts, Chip, Circuit board



## ○ AUTOMATIC CLEANING SYSTEM FOR PCB

### Feature

- Produced according to the production process to be precisely the quantity of washing products

### Applications

- Kind of pcb board



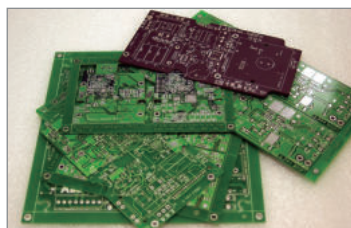
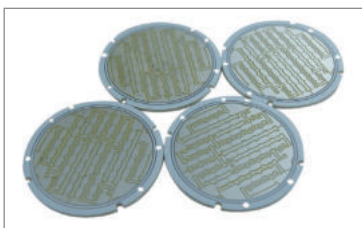
## ○ AUTOMATIC CLEANING SYSTEM

### Feature

- In line continuous spray unit
- This unit is used for removing dust, particles, glass fiber and etc on bare pcb surface

### Applications

- Ceramic, Polymer



# PAINTING PRE-PROCESSING ULTRASONIC APPARATUS

## ○ Painting pre-processing ultrasonic installation



## ○ Remove welding foreign matter and specter



[ Before ]

[ After ]

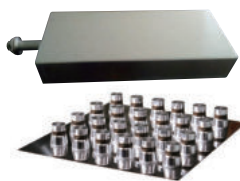




## ○ GENERATOR

### Feature

- Frequency range 20Khz ~ 220Khz
- Ultrasonic output in a variety of application, such as 200W ~ 1800W



## ○ TRANSDUCER

### Feature

- Produced in accordance with the size and capacity of tank
- SUS304, SUS316L material
- Chrome plated



## ○ SEPARABLE SINGLE TANK CLEANER

### Feature

- The separation tank and generator
- Placed on a laboratory table use
- Simple cleaning
- By immersing the object to be cleaned in the tank and emission ultrasonic cleaning to remove foreign matter



## ○ ALL-IN-ONE TYPE SINGLE TANK CLEANER

### Feature

- The tank and generator integrated
- Placed on a floor
- Suitable for industrial applications
- Depending on status of the product, size, production volume, ultrasonic capacity, tank and basket size can be changed



## ○ MULTI-TANK ULTRASONIC CLEANER

### Feature

- Selected immersion, ultrasonic, rinsing, steam washing method according to the application
- Designed to be washed and dried within a short period of time



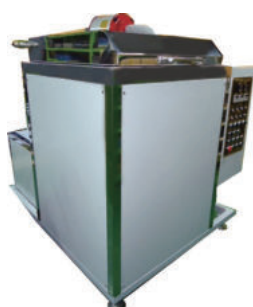
## OTHER



### ○ IPA DRYER

#### Feature

- Equipment for cleaning using the IPA
- Washing and drying with IPA vapor into the product in the basket



### ○ AUTO WASHER

#### Feature

- Using a pressure and synergism of the pump
- Cleaning the foreign material of the organic / inorganic systems in a short period of time and drying



### ○ AUTO CLEANING

#### Feature

- Ultrasonic cleaning, vapor cleaning and drying system
- The heavy load product



### ○ DISTILLER

#### Feature

- Using recycled detergent
- Efficient system that can provide high quality distilled water at a low cost
- Refrigerator playback system



**HANSHINTECH**

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