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**hantec**

HANTEC TECHNOLOGY

No. 1 Best Hantec! Hantec Technology in the World!

# ABOUT HANTEC

## GREETING MESSAGE

Thank you for visiting Hantec Technology.  
 Hantec Technology was founded in 1971 and we are proud to have become a trusted supplier.  
 We strive to be our customers' preferred global supplier partner for the automotive industry by accelerating the process of automotive technology with continued innovations.  
 Over the years, we have used our engineering competencies to meet the ever-changing needs of the auto industry with high performance, high quality products.  
 After 40 years in automotive industry, we have become a trusted parts supplier and business partner.  
 We are excited about the future of our company and its place in this industry.  
 Thank you.

CEO Choi Duk Yeol

## HISTORY

- 1970

**1971. Jul.**  
Established the Hanil metal industry

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- 1980

**1986. Dec.**  
Developed localized K.D (Seal-Ring: Regulating for exhaustion, Noise)

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- 1990

**1999. Apr.**  
Selected as a promising small and medium industry for export (The small business corporation)

**1996. Oct.**  
Achieved the 1000PPM of inferiority rate

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- 2000



Busan Plant



Ulsan Plant



Hantec USA

- 2016. Sep.  
Purchase order of press goods from
- 2015. Feb.  
Business start with
- 2014. Apr.  
Registered Tier1 Supplier for
- 2013. Dec.  
The second plant was completed in Jangan Industrial Complex.
- 2013. Mar.  
Hantec USA opened in troy
- 2012. Dec.  
Receive Export Prize with Thirty Million Dollar (49th Trading day)
- 2011. Dec.  
Receive Export Prize with Twenty Million Dollar (48th Trading day)
- 2010. Dec.  
Award New Top Company Prize on Trading day by Ulsan Metropolitan city
- 2009. Sep.  
Register Tier 1 Supplier for
- 2008. Aug.  
Registered
- 2007. May  
Winning the prime minister prize for technology innovation (The day of automobile, Korea)
- 2006. Dec.  
Certified "Technology innovated company(INNO-BIZ)"
- 2006. Mar.  
Developmented "PRO & TF Synchronize type press" (Hantec research institute)
- 2005. Oct.  
Established the Hantec research institute
- 2004. Nov.  
Winning the first prize of enterprises innovation (Secretary of ministry of commerce)
- 2004. Apr.  
Certified "Parts Material Expert Company" (Ministry of Commerce)
- 2003. Feb.  
Changed the corporate name to "HANTEC TECHNOLOGY Co., Ltd"
- 2002. Apr.  
Imported the Enterprise Resource Planning (E.R.P) System
- 2000. Mar.  
Acquired QS-9000 supported by Korea Management Association

# ABOUT HANTEC

## INTRODUCTION TO BUSINESS

- **Name of company** Hantec Technology Co.,Ltd
- **Construction Time** 2012. 12. 2
- **Ceo** Choi Duk yeol
- **Scale** Land 16,534 m<sup>2</sup> / Building Area 18,298 m<sup>2</sup>
- **Homepage** www.ihantec.com
- **E-mail** webmaster@ihantec.com
- **Address**

[Busan Plant]

90 Jangansandan9-Ro, Jangan-eup, Gijang-Gun, Busan, Korea

[Ulsan Plant]

187 Goyeon-Ro, Ungchon-Myeon, Ulju-Gun, Ulsan, Korea

[Hantec USA Office]

850 Stephenson Hwy Suite 400, Troy, MI 48083



## FACILITIES MANUFACTURING EQUIPMENTS

### • BUSAN PLANT

| Equipments       | Capacity/Size                    | Quantity |
|------------------|----------------------------------|----------|
| PRESS            | PRESS LINE (800-600-600)         | 3        |
|                  | DOUBLE CRANK PRESS (500T)        | 2        |
|                  | PRESS LINE (1200-800-600-600)    | (4)      |
|                  | PRESS LINE (300-300-250-250-200) | (5)      |
| WELDING MACHINE  | ROBOT (CO2)                      | 24       |
| OIL PAN ASSEMBLY | ASSEMBLY LINE                    | 8        |
| LEAK TESTER      | Oil Pan                          | 12       |
| E-COATING LINE   | MAX 750(L) x 600(W) x 1500(H)    | 1 LINE   |

### • ULSAN PLANT

| Equipments                        | Capacity/Size                    | Quantity | Capacity | Operating Rate |
|-----------------------------------|----------------------------------|----------|----------|----------------|
| PRESS<br>(Simpac)                 | DOUBLE CRANK PRESS (600T)        | 1        | 8.1 M    | 68% / 1 Shift  |
|                                   | DOUBLE CRANK PRESS (500T)        | 1        | 8.1 M    | 68% / 1 Shift  |
|                                   | DOUBLE CRANK PRESS (400T)        | 1        | 8.1 M    | 65% / 1 Shift  |
|                                   | DOUBLE/SINGLE CRANK PRESS (250T) | 1/3      | 4.6 M    | 60% / 1 Shift  |
|                                   | SINGLE CRANK PRESS (200T)        | 5        | 9.7 M    | 70% / 1 Shift  |
|                                   | DOUBLE CRANK PRESS (150T)        | 1        | 12.9 M   | 65% / 1 Shift  |
| WELDING<br>MACHINE<br>(Cho-hueng) | DOUBLE CRANK PRESS (110T)        | 1        | 16.2 M   | 73% / 1 Shift  |
|                                   | ROBOT(CO2) / HANDLING(CO2)       | 12 / 2   | -        | 70% / 1 Shift  |
|                                   | SPOT / PROJECTION                | 9 / 3    | -        | 50% / 1 Shift  |
|                                   | PORTABLE                         | 2        | -        | 45% / 1 Shift  |
| MACHINING<br>CENTER               | CO2                              | 5        | -        | 55% / 1 Shift  |
|                                   | LASER WELDING MACHINE            | 2        | -        | -              |
|                                   | CNC (KIT450)                     | 19       | -        | 60% / 1 Shift  |
|                                   | CNC Tapping Center               | 13       | -        | 65% / 1 Shift  |
|                                   | CNC AUTO (Bar-Feeder)            | 6        | -        | 65% / 1 Shift  |
|                                   | Machine (MCT)                    | 3        | -        | 50% / 1 Shift  |
|                                   | Beveling MC                      | 2        | -        | -              |

### • JANGAN PLANT

| Equipments       | Capacity/Size                    | Quantity | Capacity | Operating Rate |
|------------------|----------------------------------|----------|----------|----------------|
| PRESS            | PRESS LINE (800-600-600)         | 3        | 4.9M     | 15% / 1 Shift  |
|                  | DOUBLE CRANK PRESS (500T)        | 2        | 8.1M     | 64% / 1 Shift  |
|                  | PRESS LINE (1200-800-600-600)    | (4)      | -        | -              |
|                  | PRESS LINE (300-300-250-250-200) | (5)      | -        | -              |
| WELDING MACHINE  | ROBOT (CO2)                      | 12       | -        | 50% / 1 Shift  |
| OIL PAN ASSEMBLY | ASSEMBLY LINE                    | 8        | -        | 65% / 1 Shift  |
| LEAK TESTER      | Oil Pan                          | 12       | -        | 65% / 1 Shift  |
| E-COATING LINE   | MAX 750(L) x 600(W) x 1500(H)    | 1 LINE   | -        | 60% / 1 Shift  |

# ABOUT HANTEC

## PRODUCTION FACILITIES

### SYNCHRONIZE TYPE PRESS AUTO - MANUFACTURING SYSTEM

- Synchronize type press auto - manufacturing system is the first technique in domestic.
- Combined 600Ton Progressive press line and 500Ton Transfer press line.
- Efficiency of equipments is maximized significantly.
- Giving big momentum to develop the technique in associated with auto-manufacturing.
- Direct and indirect parts of technique labor is level up.

| Section    | UPH | Labor | Equipment | PPM  |
|------------|-----|-------|-----------|------|
| Before     | 150 | 7     | 7         | 2000 |
| After      | 900 | 2     | 2         | 0    |
| Efficiency | 750 | -5    | -5        |      |

\* Winning the prime minister prize for technology innovation  
(The day automobile, Korea) - May. 2007

### PRECISION LEVELLER

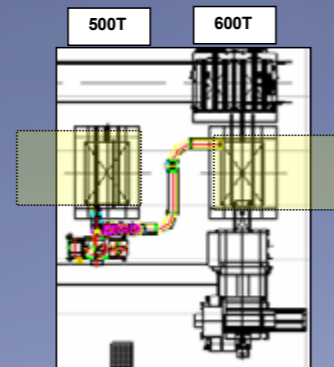
- sheet metal parts with a thickness from 3.2 mm to 6.0 mm
- Parts Name - PLATE,FRONT
- Application model



| Size      | Precision Leveller |
|-----------|--------------------|
| Width     | 200~600            |
| Pitch     | 250                |
| Thickness | 3.2t~6.0t          |



- Parts Name - PLATE,FRONT
- Application model



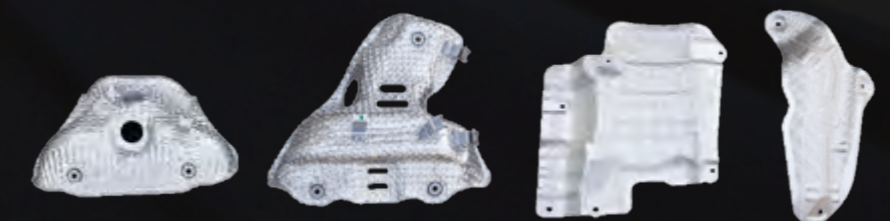
## MAJOR PRODUCTS

### HEAT SHIELD

- Mainly protect all required area against over 300°C of heat from exhaust system.
- Installed to Exhaust Manifold, Dash panel and UCC(Under floor Catalytic Converter)
- Durability with Noise, Vibration and Harshness(NVH) improvement
- Up to 60% of weight reduction compare to typical SACD (HOT-DIP ALUMINIZED STEEL SHEET)
- Hemmed edge to improve safety during manufacturing process.
- Material: Al1050 'O' grade(99%), 2 layer(0.2mm & 0.2mm)

| Section        |          | Feature   |
|----------------|----------|---|
| Material Shape |          |   |
|                |          |   |
| Material       |          | Al1050 'O' grade(99%)   |
| Thickness      | Material | 0.2mm & 0.2mm   |
|                | Product  | 4.2mm   |
| Feature        |          | <ul style="list-style-type: none"> <li>· Increase anti vibration, noise absorbing, heat resistance with air pocket</li> <li>· Increase formability to X, Y with material inflow.</li> <li>· Increase material jointability with triangle undercut shape</li> <li>· Maximize heat resistance ability with air pocket.</li> </ul> |

| Test                     |                            | Result                              |
|--------------------------|----------------------------|-------------------------------------|
| Durability               | Peel Test                  | 3.1 N/mm                            |
|                          | Tensile strength           | 69 Mpa                              |
|                          | Elongation                 | 32.99%                              |
| Material                 | Hot plate Test (SAE J1361) | 33.6/300°C<br>37.6/400°C 40.6/500°C |
|                          | Impact Noise Test          | 96.8 dB                             |
| Anti vibration and Noise | Sound Insulation           | 35dB                                |
|                          | Vibration fatigue test     | OK                                  |



## SHIFT CONTROL

**• FUNCTION**

It transfers instruction of change of speed transferred from a gearshift of driver's seat to transmission and it is the core part of manual transmission improving each exact position change control of step of change of speed and feeling of change of speed when putting together.

**• FEATURE**

Laser welding is conducted between Shift groove and shift select using raw material different thickness and manufactured by machining and as a result of that, achieved lightweight and low cost.



## SEALING CAP

**• FUNCTION**

It fits cylinder head, block in engine and valve body in transmission to prevent fluids and coolant from leaking. Also designed and manufactured to make easy to change internal stuffs.

**• FEATURE**

Manufactured by an external appearance, diameter, height, and taper management.



## TRANSMISSION & ENGINE OIL PAN

**• FUNCTION**

Consists of Baffle Plate, Drain Plug and Pan. Keeps the engine oil intact to the engine.

**• FEATURE**

Designed to protect the oil leak and withstand temperature fluctuation & rot fluctuation. Strong electrical coating.



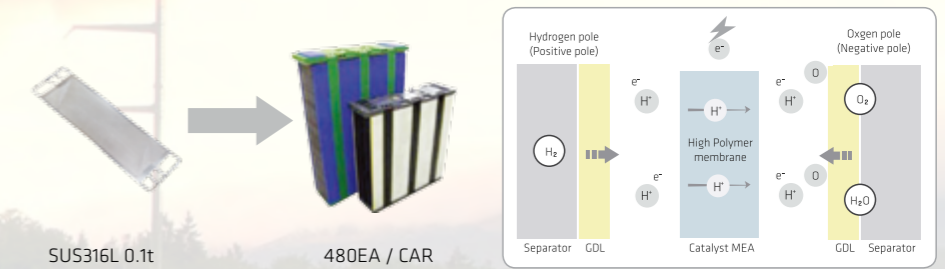
## SEPARATOR

**• FUNCTION**

As a core part of fuel cell, it has the function to supply Hydrogen, Oxygen, Cooling water uniformly after separating Hydrogen, Oxygen, Cooling water

**• FEATURE**

It is manufactured by press process using thin raw material. As a result of that, achieved lightweight and low cost.



## STAY (ALUMINUM)

**• FUNCTION**

Supporting suspension and LWR-ARM located in under body.

**• FEATURE**

Stamped with Aluminum A5052 for the lightness to vehicle



## TRANSMISSION & ENGINE MOUNT BRK'T

**• FUNCTION**

Supports engine or transmission and minimizes the vibration and noise with damper or assembled insulator.

**• FEATURE**

More than 4.5mm in thickness to suppress the noise and vibration. Designed to withstand high temperature and rust. Manufactured with automated welding for low production cost and quality.



## SPLASH SHIELD

- **FUNCTION**  
It protects speed sensor and vehicle's axis from all kinds of filth from outside.
- **FEATURE**  
Using thin raw material of 1.2mm, it achieves lightweight and cost.



## PORT PLATE

- **FUNCTION**  
New technical product, effective for vehicle fuel economy improvement
- **FEATURE**  
Pressed type stainless product without additional machining process. equip automatic measuring system



## ASSY - HINGES (DOOR, HOOD, TAIL-GATE)

- **FUNCTION**  
It affixed in the DOOR, HOOD, TAIL-GATE and BODY of the vehicle and when opening and shutting the DOOR or HOOD back, a support point and a location fixation role it does.
- **FEATURE**  
The structure is the PLATE, BUSH and the PIN. with high support power to be a feature of opening and shutting which is smooth, it follows in configuration. It is a multi type (DOOR, HOOD, TAIL-GATE)



## CATCH ASSY RR/CMBR & BRKT, FUEL TANK

- **FUNCTION**  
CATCH ASS'Y RR C / MBR : It is installed on the left and right side of cab's back side and it is the role of handle when we lift and lower the cab.  
BRKT,FUEL TANK : Supporting Fuel tank
- **FEATURE**  
CATCH ASS'Y RR C / MBR : After CO2 welding between Bracket and Rod, designed to withstand temperature fluctuation & rot fluctuation. Strong electrical coating.  
BRKT,FUEL TANK : Assembled with NBR and BRKT



## ARM ASSY

- **FUNCTION**  
Assembled to Vehicle Front, Rear Cross Member or Knuckle, absorbing and minimizing vibration during driving. Also effect wheel alignment
- **FEATURE**  
Stamping and assembly with rubber part



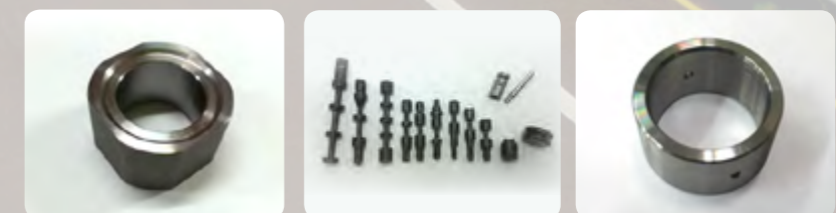
## MACHINING PARTS



LUG RVS

LUG SHIFT

GEAR PINION FR



SUPPORT PINION

VALVE SPOOL

GEAR CONTROL

# ABOUT HANTEC

## VISION & COMPANY DOCTRINE

SUPERIOR TECH LEADER IN GLOBAL AUTOMOTIVE INDUSTRY

### Our Mission

#### >> Customer satisfaction

- Being responsible and driven by our Customer's "Quality, Cost and Delivery"

#### >> Technology innovation

- Product portfolio to high valued-products
- "High tech and service" with increasing emphasis on proprietary products

#### >> Management innovation

- Completing transparent management system
- Generating economic returns
- A culture that encourages team work

- Constant research and development efforts for the goal of being world class auto parts manufacturer

Passion  
ERP

- Continuous improvement and the elimination of waste
- Driving innovation with challenge to be the first
- Activation of studying organization for supporting
- Insurance of flexible working
  - Attitude to take the change
  - Strong work ethic

Creation  
CRM

- Respect of human kind through the esteem of life
- A culture that encourages team work
- Formation of trust with each other
- Practice of open operation throughout the activated communication
- Cultivation of men of talent and a fair reward for a person's labor

Cooperation  
SCM



Hantec Technology  
(World Class Supplier)

## COMPANY PHILOSOPHY

### Best Hantec



Hantec Technology shows the respect of human kind through the esteem of life, which the safeties for workers take the priority all over other things, formation of trust with each other, practice of open operation throughout the activated communication between the corporation and the staffs, cultivation of men of talent, and rewarding fairly a person's labor.

### Best Service



We are always trying to develop with customers offering superior service to them with putting ourselves in their position.

### Best Product



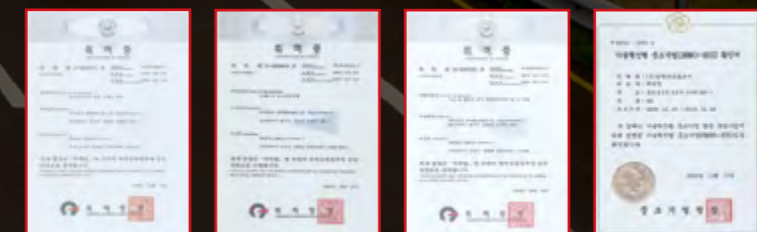
Our company produce only best product through the process, which seeks after the high quality product for future generation, improves productivity, and try to get a excellent image as corporation.

### Best Technology



Hantec Technology drive the innovation with challenge to be the first in this area, and the activation of studying organization for supporting those, insurance of flexible working, and the attitude to take the change.

## CERTIFICATE



# OUR CUSTOMER

## WE STRIVE FOR CUSTOMER SATISFACTION WITH SAFETY

WE ARE GOING FURTHER AHEAD OF OTHERS THROUGH THE CREATION OF THE NEW VALUE AHEAD OF THE FLOW OF TIMES, THE COMPETITIVENESS THAT LEADS THE MARKET WITH THE ENDLESS RESEARCH AND DEVELOPMENT, AND WITH THE SERVICE APPROACHING TO CUSTOMERS IN ADVANCE BY ONE STEP.

SUPERIOR  
TECH LEADER  
IN GLOBAL  
AUTOMOTIVE  
INDUSTRY







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