

# SUNG WOON CORPORATION

## Company profile

Driving us to an effective innovation solution  
Differentiating from others and valuing us

**Sung Woon Corporation**  
[www.swcinfo.com](http://www.swcinfo.com)

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# 01

## About us

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Company Profile

Certifications

Partners

# 1-1 Company Profile



|                         |  |
|-------------------------|--|
| <b>Name</b>             | 성운 (盛運)<br>Sung Woon Corporation (SWC)   |
| <b>Date Established</b> | 2019. 4 .10  |
| <b>CEO</b>              | Lee Moonhee  |
| <b>Website</b>          | www.swcinfo.com  |
| <b>Email</b>            | sw.corp@swcinfo.com  |
| <b>Address</b>          | 170, Sangbuk-ro, Sangbuk-myeon,<br>Ulju-gun, Ulsan, Republic of Korea<br>(44903) |
| <b>TEL</b>              | +82 52-264-9309  |



# 1-1 Company Profile



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**Head office**      Ulsan city, 500 SQM

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**Factory**            3,000 SQM

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**Turnover**          4M USD (2022)

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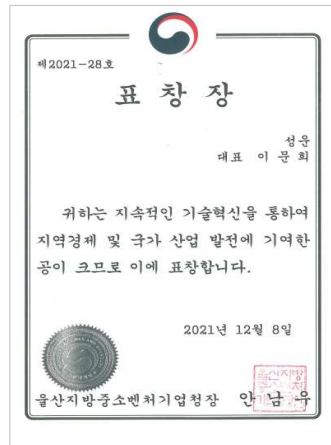
**Capital**            3M USD

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# 1-2 Certifications



2008. 3. 8  
Commendation by  
The Small and Medium  
Business Administration



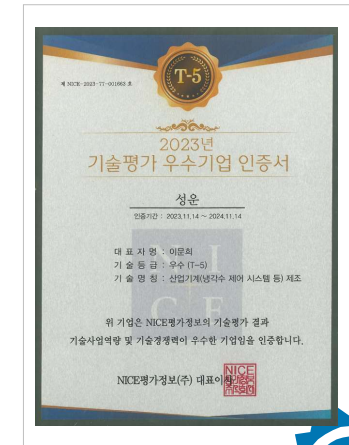
2021. 12. 8  
Commendation by  
Ulsan Regional Small and  
Medium Venture Business  
Administration



2022. 6. 17  
Recognition of the  
department dedicated to  
R&D department



2022. 12. 6  
Commendation by  
Ulsan Metropolitan City Mayor



2023. 11. 14  
Certificate of  
Excellence in  
Technology Evaluation



# 1-3 Partners

## Domestic Partners



|주| 대성하이텍

## Overseas Partners



PennEngineering®



KIST +  
ESCHERICH

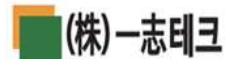


KOHLER

MDS | AUTORIV®  
Fasteners + Assembly Systems

# 1-3 Partners

## Customers







# 02 What We Do

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Business Area

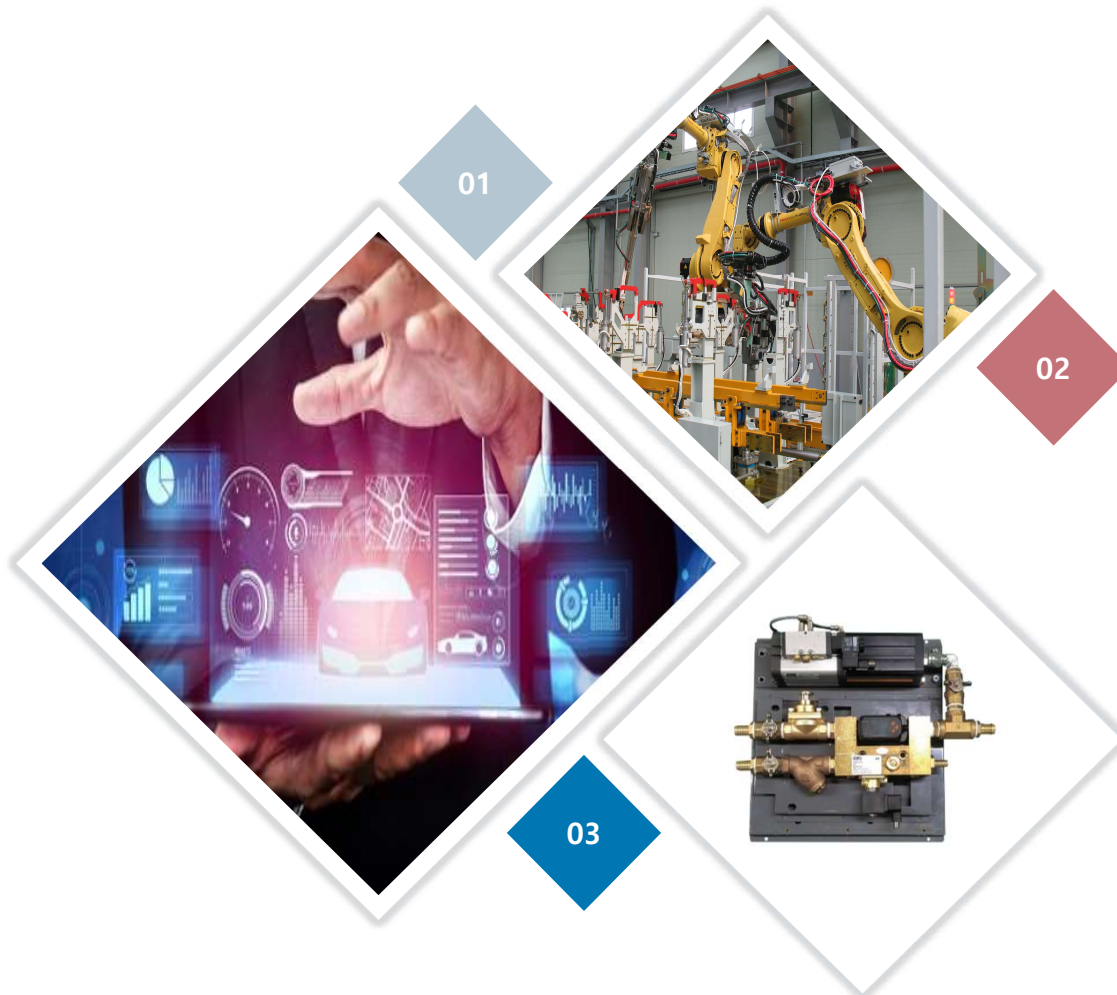
Business Performance



### Accumulated Expertise



We offer consulting services on innovative joining equipment supply and technology.



#### 01. Innovative joining and process improvement

We provide cutting-edge technologies for condenser welding, fastener joining, flush self-piercing riveting, clinching, electro magnetic pulse technology joining, crimping, plastic-metal joining, and enhancement of car body joining quality, along with innovative process improvement solutions.

#### 02. Technical Consultation, Joining Samples, and Test Data Provisions

We also provide consulting services on welding/mechanical joining, forming, and dissimilar joining technologies, along with support for sample joining tests.

#### 03. Smart Water Control Systems

Our smart water control systems are designed to automate the management of cooling water in industrial settings, enhancing the efficiency of cooling operations.

# 2-1 Business Area



Condenser Projection Welding



H/W (Fastener) Clinching



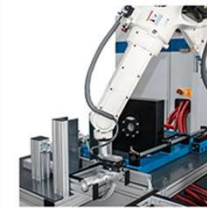
Blind Rivet nut/bolt Setting



Flush Self-Piercing Riveting



Clinching Forming



Electro Magnetic Pulse Technology



Thermal direct joining Technology



## 2-2 Business Performance

\*Project performance Only / Update : May 2024

| Date | Project         | Content  | Date | Project                    | Content   |
|------|-----------------|--|------|----------------------------|---|
| 2020 | Nawootec R&D    | PEM SPR 1 SET                                    |      |                            |   |
| 2020 | SUr2 Project    | Smart water cooling system 168 SET               | 2023 | ME Project                 | HERON Clinching Forming 14 SET<br>PEM H/W Clinching 3 SET<br>EPRESS UQ-FX 1 SET |
| 2021 | JK-EV Project   | STOEGER FDS 10 SET                               | 2023 | MEA Project                | HERON Clinching Forming 5 SET<br>EPRESS UQ-FX 1 SET                             |
| 2021 | Byton Project   | PEM H/W Clinching 2 SET                          |      |                            |   |
| 2021 | BN7r Project    | Smart water cooling system 266 SET               | 2023 | Nawootec R&D               | HERON Clinching Forming 1 SET<br>EPRESS EFDS 1 SET<br>EPRESS UQ-FX 1 SET        |
| 2021 | Tesla Project   | HERON CD welder 8 SET                            | 2023 | IP display bracket Project | PEM H/W Clinching 1 SET   |
| 2022 | ME Project      | STOEGER BMS 1 SET                                | 2023 | KIA 2P EV Project          | PARKER WRA 105 SET  |
| 2022 | BN7r Project    | 냉각수제어패키지 4 SET                                   | 2023 | Everest Ancillary Project  | PEM H/W Clinching 3 SET   |
| 2022 | Tesla Project   | HERON CD welder 8 SET                            | 2024 | OPAL/GUSSET                | MDS In die press 3 SET  |
| 2022 | KIST            | STOEGER FDS 1 SET                                | 2024 | Ilji Tech                  | HERON CD welder 1 SET   |
| 2022 | MV Project      | STOEGER FDS 2 SET                                | 2024 | Ajin Industry              | HERON CD welder 3 SET   |
| 2023 | 4MENG           | STOEGER FDS 1 SET                                | 2024 | LUCID Project              | PEM H/W Clinching 9 SET   |
| 2023 | EVEREST Project | HERON CD welder 3 SET<br>PEM H/W Clinching 6 SET |      |                            |   |
| 2023 | MVA Project     | HERON Clinching Forming 4 SET                    |      |                            |   |

# 03 Our Products

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All

Welding machine

Dissimilar material joining machine

Specialized joining machine

Others



## Welding machine

- Condenser Projection Welding System



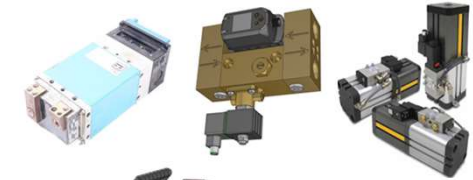
## Dissimilar material joining machine

- BRS (Blind Rivet nut/bolt Setting System)
- H/W (Fastener) Clinching System
- Clinching Forming System
- FSPR (Flush Self-Piercing Riveting System)



## Specialized joining machine

- EMPT (Electro Magnetic Pulse Technology)
- hyJOIN (Thermal direct joining Technology)



## Others

- Transformer
- WBB (Cooling water control module)
- WRA (Cooling water retract cylinder)
- PHASISNEO (Ultrasonic inspection device)
- PHASISBLU (Ultrasonic inspection device)
- Hand/Manual Tool

## 3-2 Welding machine - Condenser Projection Welding



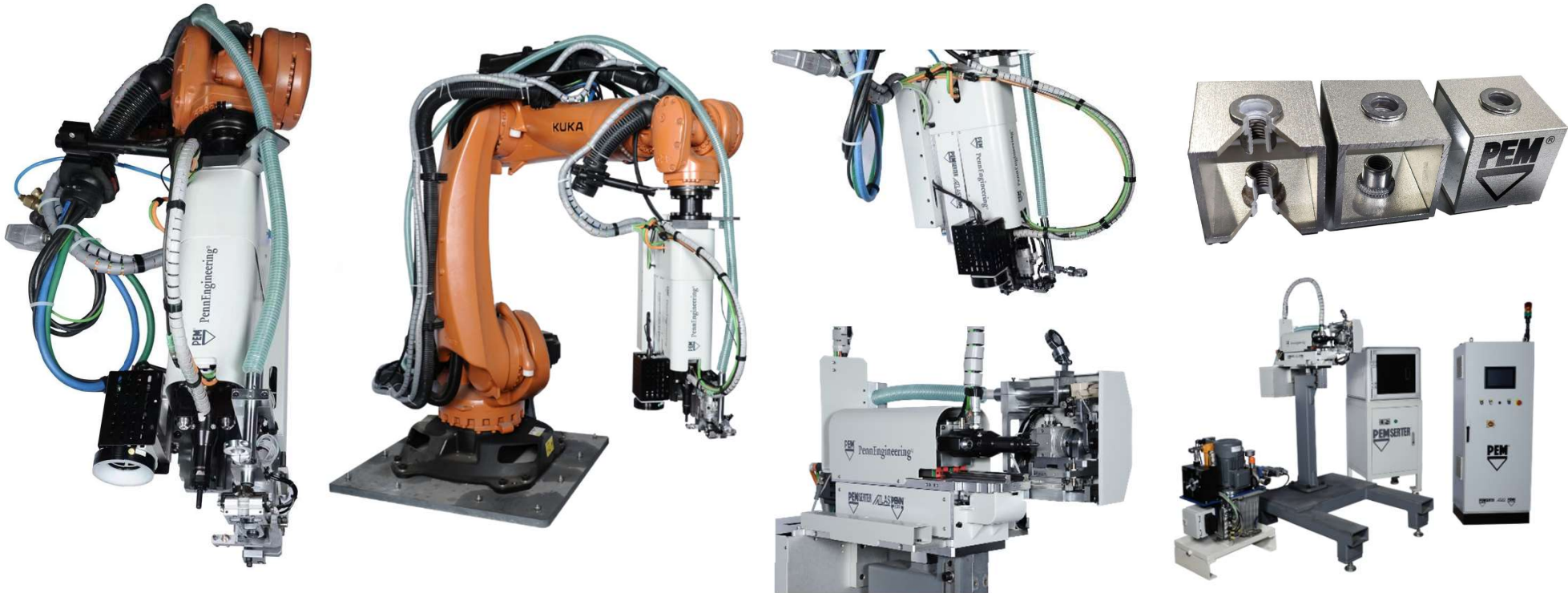
### Condenser Projection Welding System

: Projection welder for joining nuts and bolts to high strength and hot-stamping steel sheets

- Small heat affected zone, lower energy consumption, electrode loss, cost saving
- When welding galvanized parts, the galvanized layer in the non-welding area can not be damaged, no grinding and post-treatment is required
- The welding process is not affected by grid fluctuations, especially welding of high-strength and thermoformed steels is very stable



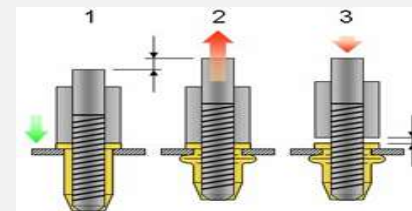
## 3-3 Dissimilar material joining machine - BRS



### BRS (Blind Rivet nut/bolt Setting System)

: Install most rivet nut and stud

- Cycle time, 6 s for round rivet nut/stud, 7 s for hexagon rivet nut/stud
- PAC system, force, displacement real time monitor, and process control
- PEM design 3D camera for high-precision positioning
- Data storage locally and connect MES





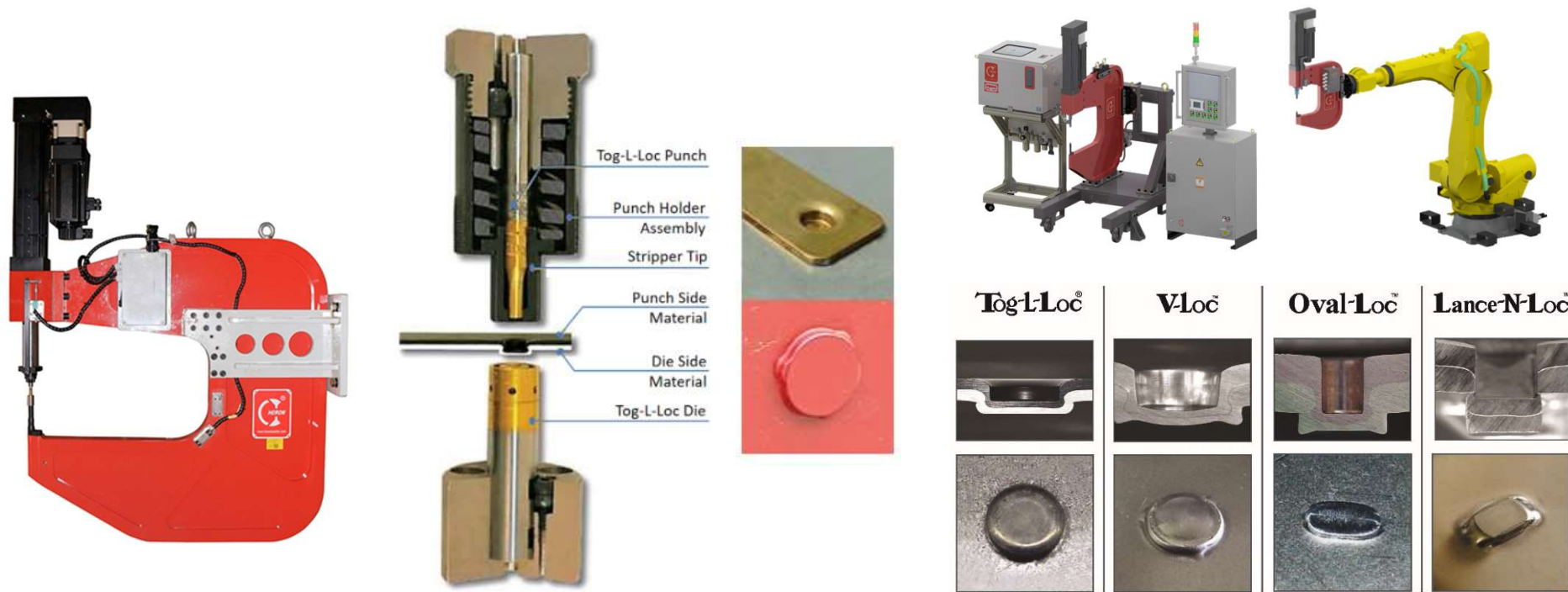
## 3-3 Dissimilar material joining machine - H/W Clinching



### H/W (Fastener) Clinching System : Hardware/fastener insertion system

- Air-Oil / Servo-Hydraulic Actuator type
- Universal program platform
- Modular design for frame, cylinder, servo pump and control system
- PMCS system (curve system)

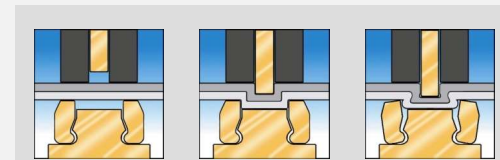
# 3-3 Dissimilar material joining machine - Clinching Forming



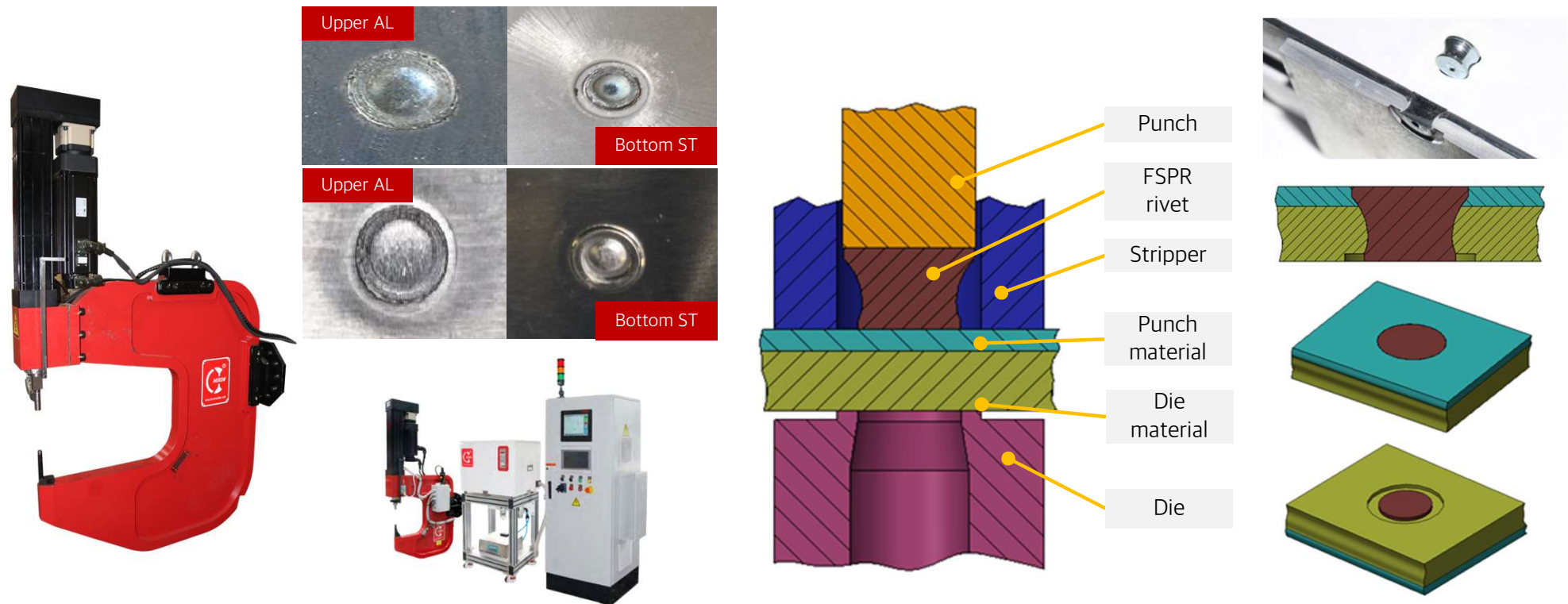
## Clinching Forming System

: An innovative and proven system for dissimilar material without rivets or welding

- No welding fumes, no hazardous exhaust, no noise, Low energy consumption
- Cost effective, environmentally friendly
- Lightweight design containing customized servo drive and C-frame
- Reduce carbon footprint, save energy



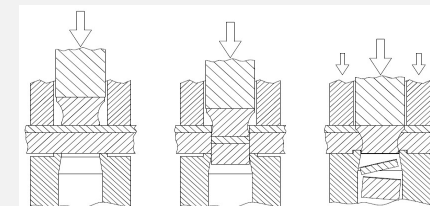
## 3-3 Dissimilar material joining machine - FSPR



### FSPR (Flush Self-Piercing Riveting System)

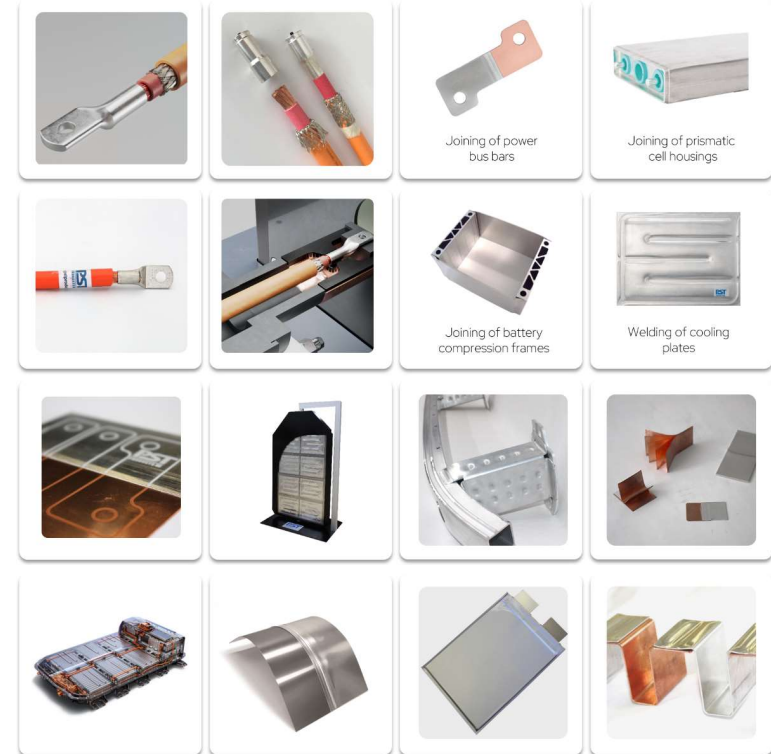
: Automatically supplies special solid rivets to punches via pressure-based riveting

- Can rivet high-strength alloy, thermoforming steel, carbon fiber. Multi-layer riveting possible up to 9.1mm
- Punching and riveting can be completed at one time, without pre holes
- Good molding effect, punch can be pre-painted or plated
- Stable shear force, tension force and riveting appearance
- Strong anti-rust ability, the longest can pass the salt spray test 480 hours





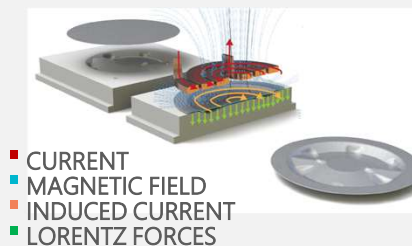
# 3-4 Specialized joining machine - EMPT



## EMPT (Electro Magnetic Pulse Technology)

: Capable of High-strength welding, multi-material bonding without distortion, No heat loss

- High-strength welding and crimping without thermal-related loss of material properties
- Crimping, forming, welding, cutting, EHF
- Easy integration into production lines and higher-level quality detecting systems
- Safe technology in accordance with legal regulations
- Low service and maintenance

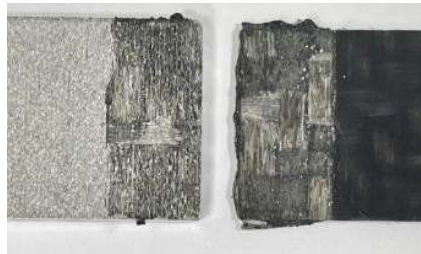


# 3-4 Specialized joining machine - hyJOIN



Aluminum 5mm

PA6GF47



Tensile shear strength: 30 MPa

Heating time : 2,2 sec

Aluminum 2mm

PA6GF47



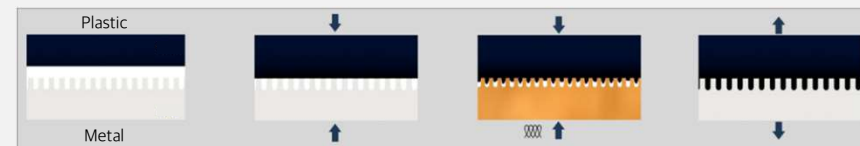
Tensile shear strength: 20 MPa

1,1 sec

## hyJOIN (Thermal direct joining Technology)

: Quick and reliable metal-thermoplastic technology without the need of any additional material

- Stable connection without additional material
- Smart alternative to adhesive bonding
- Joining technology for complex components
- Flexibility through exchangeable heating modules
- Flexible integration into fully automated assembly lines



## 3-5 Others



**Transformer**

Water-cooled transformer for high-current applications in the DC and AC range

- Benefit from over 50 years of tradition and experience
- In addition to standard applications, specializes in individual support for customer requirements



**WBB  
(Cooling water control module)**

water block brass with all features integrated - manifold design

- Coolant flow & temperature monitoring
- Installation of check valves to allow complete shutdown
- Easy to manage by minimizing coolant piping connections



**WRA  
(Cooling water retract cylinder)**

Inhalation of coolant and 100% blocking of coolant discharge when replacing tip

- Different mounting methods (panel mounting, frame mounting, robot mounting, etc.)
- Ensure compatibility with all coolant fluids and long life
- Avoiding various potential hazards from coolant runoff

## 3-5 Others



**PHAsisNEO**  
(Ultrasonic inspection device)

Fast and precise inspection of welded joints in production

- housing with shock protection, replaceable display and passive cooling
- The swiveling handle with fixed locking positions guarantees the best view on the display
- Intuitive operation with touchscreen, keyboard or remote control



**PHAsisBLU**  
(Ultrasonic inspection device)

Fast and precise inspection of welded joints in production

- Especially for spot welds and short weld seams
- Ideal for thickness 0.6mm~5mm
- by using robot technology it can help reduce testing time as well as improve reproducibility



**Hand/Manual Tool**

For Riveting, Clinching, SPR

- Easy to use
- Pneumatic/servo type
- Auto feeding (optional)
- Monitoring (optional)
- Mainly used for line maintenance

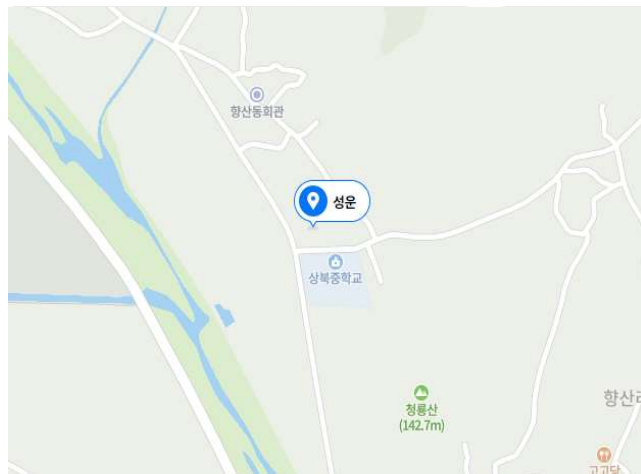


# 04 Contact us

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## 4 Contact Us



|         |  |
|---------|--|
| Address | 170, Sangbuk-ro, Sangbuk-myeon,<br>Ulju-gun, Ulsan, Republic of Korea<br>(44903) |
| TEL     | +82 70-7766-9309<br>+82 52-264-9309  |
| Email   | sw.corp@swcinfo.com  |
| Website | www.swcinfo.com  |

# THANK YOU!

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Differentiating from others and valuing us

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