

# MANUFACTURER OF AUTOMOBILE BODY AND CHASSIS COMPONENTS

TC MOTOR | HWASHIN

THANH CONG HWASHIN LIMITED LIABILITY COMPANY

Head office: Gian Khau Industrial Park, Gia Tran Commune, Gia Vien District, Ninh Binh Province.

Website: [hwasin.thanhcong.vn](http://hwasin.thanhcong.vn) | Email: [tchs@hwasin.thanhcong.vn](mailto:tchs@hwasin.thanhcong.vn)



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LIMITED LIABILITY COMPANY

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## OPEN LETTER OF THE BOARD OF DIRECTORS

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*Dear valued customers, partners,*

Thanh Cong Hwashin LLC was established in 2020 as a result of the strategic cooperation relationship between Thanh Cong Group and Hwashin Group, a highlight in the friendly and cooperative relationship between Vietnam and South Korea.

Undergoing initial difficulties, Thanh Cong Hwashin has gradually affirmed its reputation in the market, becoming a key partner of many automobile manufacturers and attracting the attention of many domestic and international customers. Those achievements were gained on the foundation of inheriting capabilities of the two Groups, along with outstanding efforts of the Company's Board of Directors - Staff facing challenges of the economy in general and internally in particular.

Entering a new stage of development, Thanh Cong Hwashin will continue to be consistent in providing high-quality auto parts at reasonable prices while promoting research and application of new technologies to meet market requirements better, contribute to the country's automobile industry development, and prepare to participate in the global automotive supply chains.

With current achievements, on behalf of the Board of Directors of Thanh Cong Hwashin LLC, I sincerely thank valued customers and partners for your companionship and cooperation with the Company during the past time. We look forward to gaining credibility in the future.

Sincerely thank you!

Director

*(Signed)*

Ngo Minh Nam



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“QUALITY AND TRUST ARE PRIDE”



# INTRODUCTION



## 1. Introduction of Thanh Cong Group

Thanh Cong Group Joint Stock Company (TC Group) is one of the 10 largest private corporations in Vietnam.

Starting with the automotive industry, after nearly 25 years of building and development, TC Group has established a solid foundation in terms of experience, facilities, advanced technology, and techniques, as well as extensive cooperation relationships with major global car brand partners, such as Hyundai Motor, Skoda Auto, etc.

TC Group also constantly builds and perfects the value chain to bring the best quality products to customers and is proud to become one of the leading automobile manufacturers, assemblers and distributors in Vietnam.

Currently, TC Group is gradually affirming its position by expanding the ecosystem to the fields of investment, exploitation, operation of real estate, and finance-banking, and annually contributing tens of trillions of dong to the state budget.

## 2. Introduction of Hwashin Group

Hwashin Group is a global automobile chassis and body manufacturer, playing an important role in the Korean automobile components manufacturing industry with a turnover of \$2 billion per year.

After nearly 50 years of development, Hwashin Group has become a strategic OEM partner for customers in many countries worldwide, with seven manufacturing centers in South Korea, India, China, the USA, Brazil, and Vietnam. In particular, Hwashin Group has been the No. 1 partner of Hyundai Motor Group for many consecutive years, providing nearly 5 million sets of Hyundai components each year.







(Joint venture contract signing ceremony between Thanh Cong Group & Hwashin Group)

### 3. Introduction of Thanh Cong Hwashin

Thanh Cong Hwashin LLC (TCHS) is a joint venture between Thanh Cong Group and Hwashin Group in manufacturing automobile body and chassis components.

Established in 2020, inheriting the available technology advantages of two automobile groups, up to now, TCHS has become one of the leading enterprises in manufacturing, producing, and processing high-quality automotive components in Vietnam and a supplier of components for Hyundai Thanh Cong Vietnam Factory (HTMV) with the capacity of nearly 100,000 sets of components per year.

Moreover, TCHS directs to become one of the spearhead enterprises in the automotive industry of Thanh Cong Group, providing high-quality auto parts and components and making positive contributions to the country's automotive industry development.

### 4. Vision – Mission – Core values



#### VISION

To become the top manufacturer and supplier of auto components in Vietnam.



#### MISSION

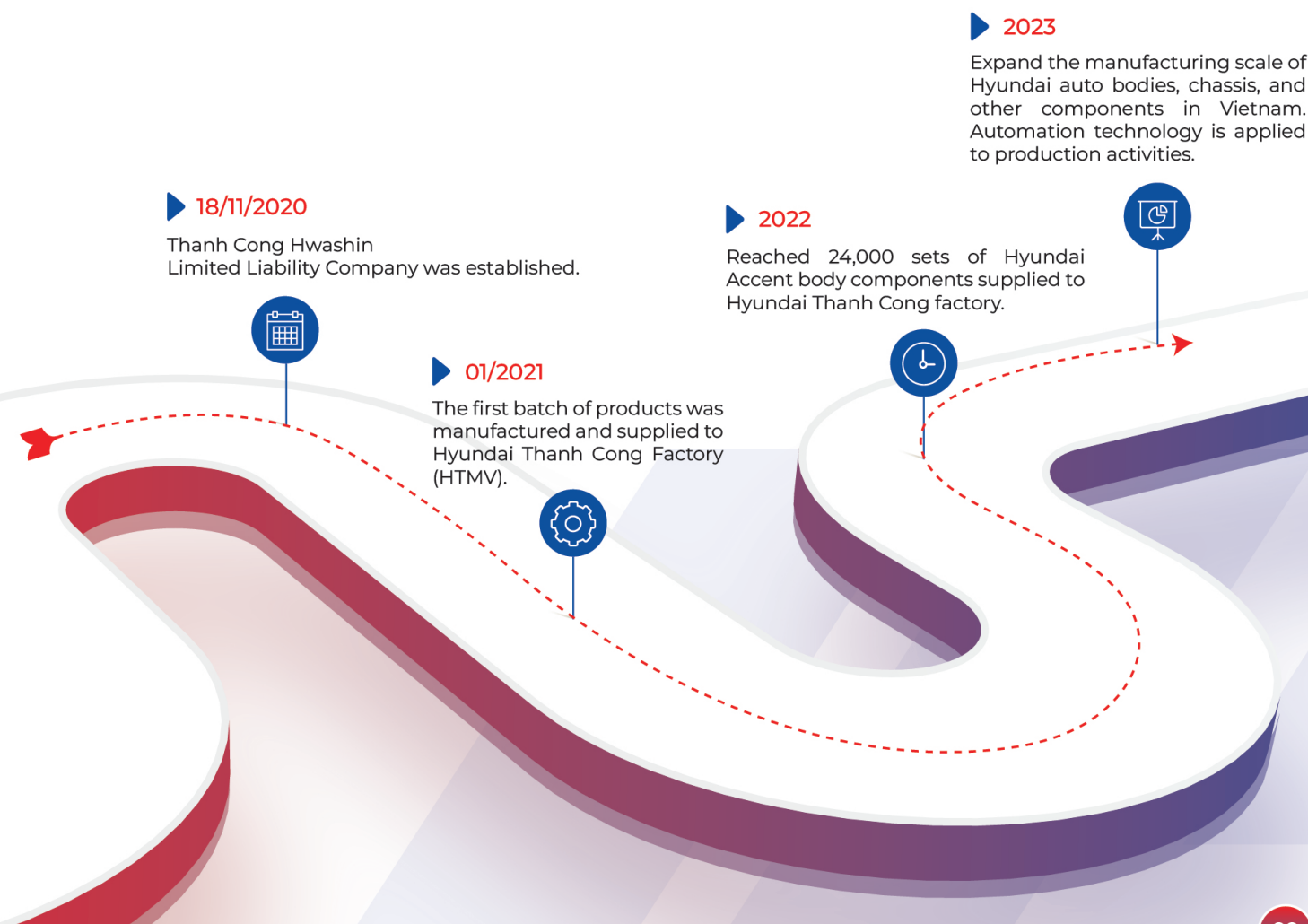
To provide high-quality auto components products at reasonable prices, contribute to the development of supporting industries in Vietnam.



#### CORE VALUES

- Customer-centric
- Aggressiveness
- Professionalism
- Continuous improvement
- Human
- Integration

### 5. History of development





## MANUFACTURING CAPABILITY





# 1. Technological capability

TCHS owns the state-of-the-art production line system in Vietnam, with technology transferred from Hwashin Group (South Korea), including more than 600 semi-automatic and automatic machinery and equipment.

Moreover, TCHS is always a pioneer in applying advanced technologies into manufacturing, improving processes and equipment to enhance product quality and labor productivity.



Sub line



Panorama



PJ line



Quality Inspection Workshop



Executive Office



## 1.1 Automated and specialized production line with welding robots

The factory's welding line is designed as an integrated module for many vehicle models, optimizing factory area and welding equipment.

Welding robots with state-of-the-art technology from Hyundai Robotics are applied in all crucial stages to:

- Improve the automation rate in manufacturing and increase efficiency and labor safety.
- Improve accuracy and product quality stability.
- Quickly adapt and transform technology to manufacture new vehicle lines.





## 1.2 Highly complex Resistance welding technology

Spot, Bolt, and Nut welding equipment applied with advanced resistance welding methods help products achieve the highest precision and meet the most meticulous and complex manufacturing requirements.

### Spot welding machine

Spot welding machine is one of the main equipment and has the largest quantity in TCHS factory, creating most of the welding spots on finished products.

The spot welding machine system accompanies the following modern dynamical systems: cooling tower system, large capacity air compressor system, etc., to ensure that the production line can operate 24/7.

### Projection welding machine

PJ welding machine is a large-capacity, semi-automatic Bolt / Nut welding machine with high accuracy based on the operation of PLCs, sensors, automatic feeding system..., thereby ensuring the best welding quality.

### STUD Weld Machine

STUD Welding machine is a specialized welding machine with modern European technology, operating based on retracted arc technology. The STUD welding machine is responsible for welding bolts in difficult positions and thin surfaces.

### Jig

Welding jigs are the most important equipment in the assembly process, manufactured and transferred from South Korea to allow precise assembly of welded parts according to the standards of each automobile manufacturer.



Bolt/Nut welding machine



Vertical welding machine



Hanging Spot Welding Machine



STUD Welding Machine



Inspection fixture

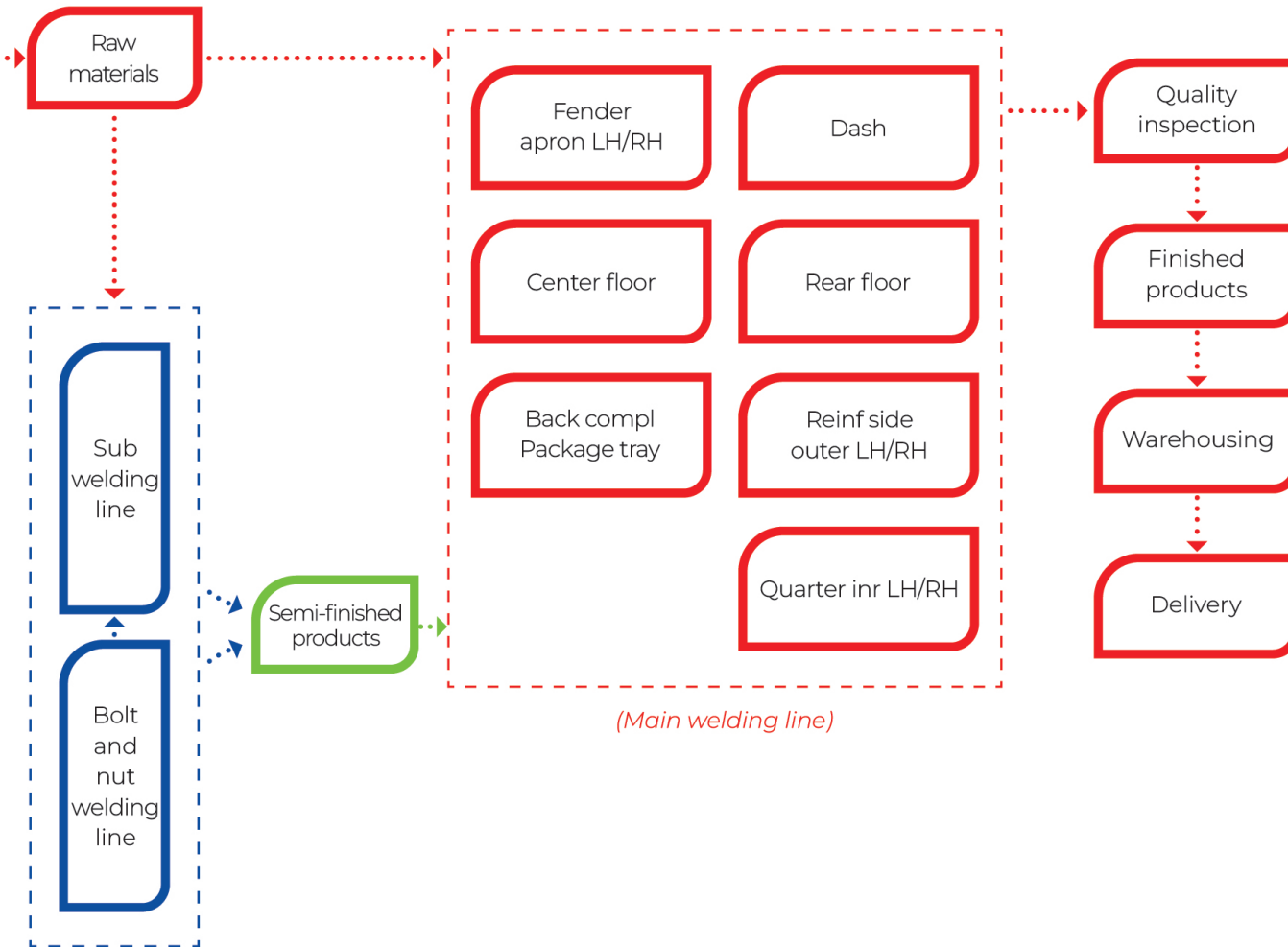


Sealer pump



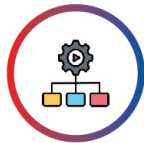
## 2. Semi-automatic automotive body manufacturing process

TCHS's semi-automatic automotive body production line is one of the most modern lines in the region today, providing absolute precision for each weld, ensuring that the automotive body reaches the highest quality according to the global standards of each automotive manufacturer.



## Hyundai Accent automotive body manufacturing process

The semi-automatic Hyundai Accent automotive body production line is the main production line at the TCHS factory, meeting Hyundai standards globally.



### Materials

Sheets of corrugated iron stamped according to profile (size from 3x3cm), bolts, nuts, stickers.



### Bolt and nut welding line

More than 15 semi-automatic welding machines weld bolts and nuts with stamped corrugated iron sheets according to profile.



### Sub-welding line

Welding of corrugated iron sheet parts, semi-finished products of bolt and nut welding lines together to create small assemblies (semi-finished products).



### Semi-finished products

The final product of bolt, nut and sub-welding lines are gathered in a separate area for quality inspection, then transferred to the main welding line.



### Main welding line

Includes 7 main lines to create 11 finished products: Joining corrugated sheet parts, semi-finished products of bolt and nut welding lines, and semi-finished products of sub-welding lines together through jigs and welded joints.



### Quality Inspection

Inspect all products to ensure quality standards.



### Finished products

The final product is created in various stages, from small pieces of corrugated iron to form 11 large assemblies, directly constituting the complete body of the Accent car.



### Storage

Finished products are stored in appropriate conditions, ensuring quality before being shipped.



### Delivery

Finished products are delivered to customers with quality assurance, exact quantity, and on schedule.



### 3. Quality Management System according to ISO 9001:2015 and IATF 16949:2016

#### ISO 9001:2015

ISO 9001:2015 is an international standard for quality management systems issued by the International Organization for Standardization (ISO), applicable to most fields. ISO 9001:2015 has become the world's most widely used standard, a global standard that ensures the ability to meet quality requirements and enhance customer satisfaction in the supplier-customer relationship.

With the application of the quality management system according to ISO 9001:2015, TCHS can understand risks better, thereby providing preventive control measures and opportunities for improving and enhancing partner satisfaction.

#### IATF 16949:2016

IATF 16949:2016 certification is an international quality standard for automotive quality management systems, developed by the International Automobile Task Force (IATF) to ensure compliance with industry quality requirements and related partners. This standard replaces the quality standard ISO/TS 16949:2009.

To achieve IATF 16949:2016 certification, TCHS must comply with strict quality requirements, including quality management, process management, product and service control and data management and must also comply with regulations on safety and environmental protection.



IATF 16949:2016 Certification



ISO 9001:2015 Certification

With the quality management system in compliance with ISO 9001: 2015 and IATF 16949: 2016, TCHS will be a reliable partner for automobile manufacturers and assemblers in providing high-quality automotive components and accessories, which is consistent with global standards and optimize costs.



**Field of application:**  
Manufacturing components & assemblies for automobile bodies.



# 4. Human Resources Capacity

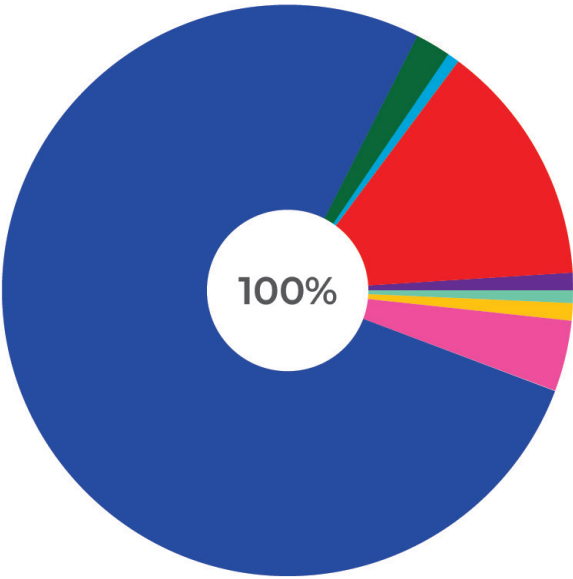
“Human” is one of the core values of TCHS, an important foundation for the Company's development. Therefore, TCHS continuously improves the potential of its human resources in both scale and qualifications.

## Personnel Structure of TCHS

Scale: ~300 people

### Organizational structure

- Board of Directors: 1%
- Quality Control and Assurance: 14,8%
- Production Engineering: 0,7%
- Manufacturing Control: 2%
- Manufacturing: 75,8%
- Administration and Human Resources: 4%
- Finance – Accounting: 1%
- Purchasing: 0,7%



### Professional Qualification

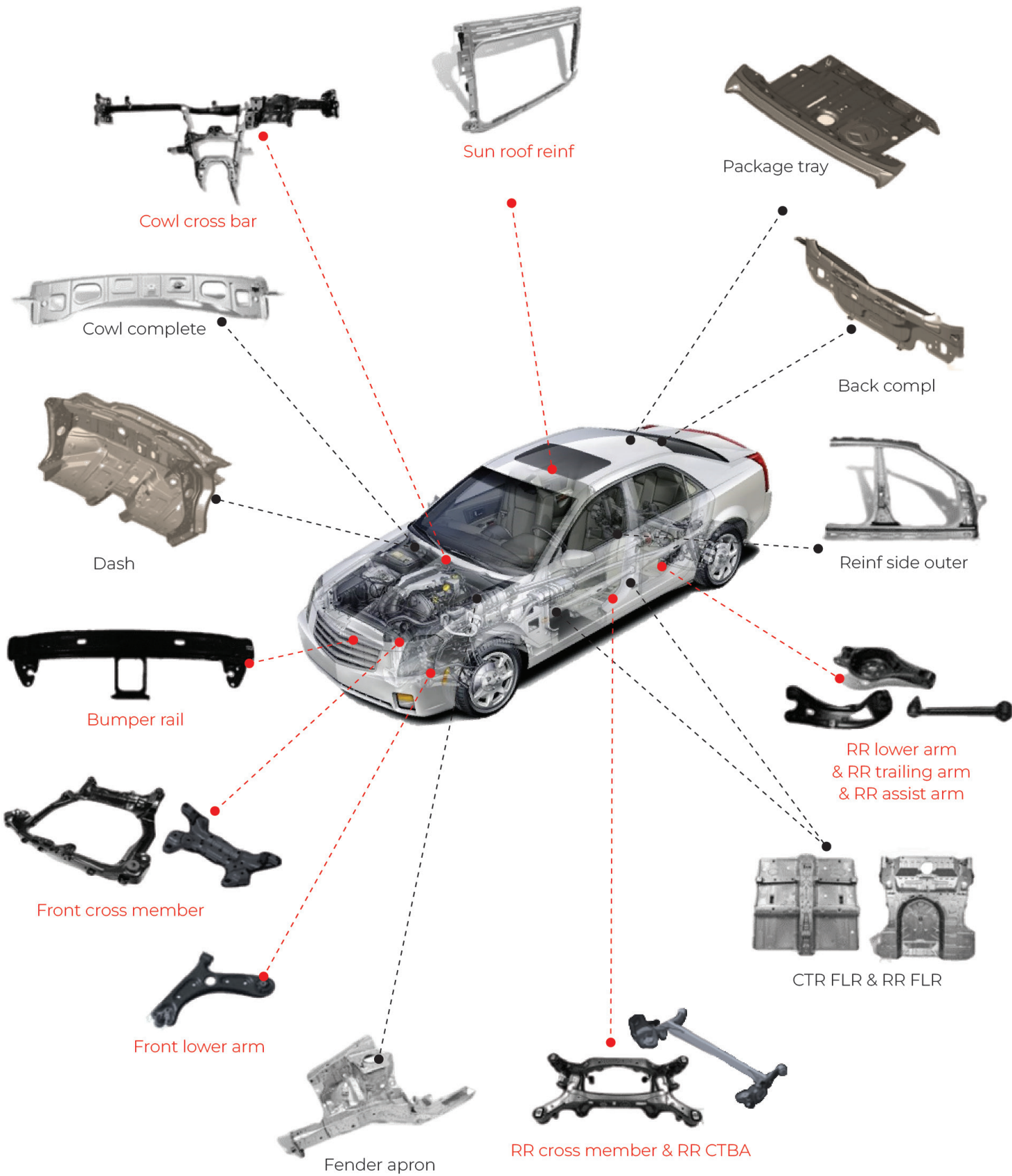




PRODUCTS



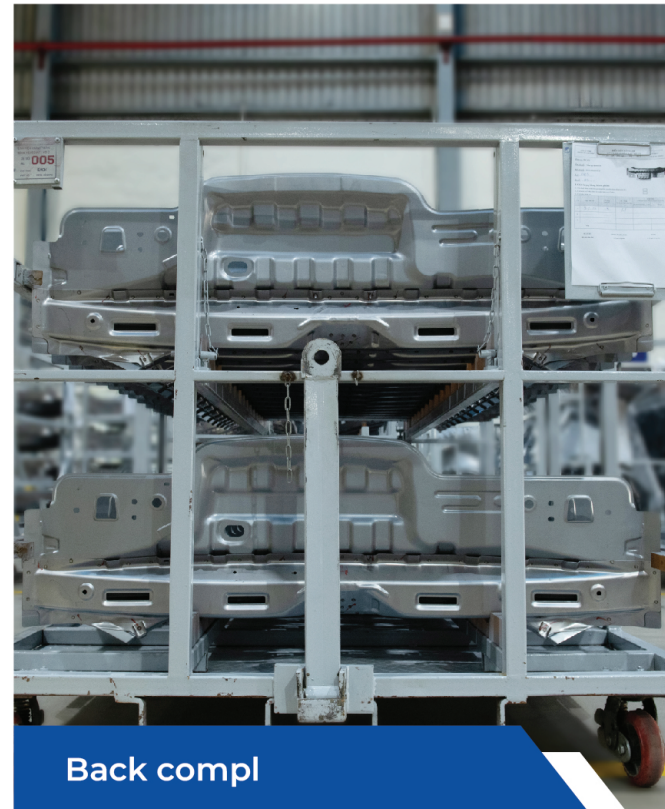
TCHS manufactures and distributes body components for vehicles, especially body components for touring cars.



- In production
- Planning for development



# ACTUAL IMAGES





WAREHOUSING, PACKAGING  
& TRANSPORTATION CAPABILITY



1. Finished product packaging

Finished product packaging is an important step in manufacturing, protecting products, and ensuring quality while helping save costs on transportation and storage of finished products.

TCHS's product packaging process complies with strict product packaging procedures, helping to ensure the highest product quality for customers.

Packaging process





## 2. Warehouses & Transportation

Large-scale centralized warehouse system, application of machinery and professional management software to meet all manufacturing needs, ready for future expansion at the request of customers.

- High-performance specialized pallet system, improving the operating capacity of warehouses.
- WMS software system manages and operates the warehouse system, ensures accuracy, transparency and can manage real-time data from time to time.
- The production locations use barcode scanners to quickly identify and manage supplies for each shelf area and location of using.





# PROCESS OF CONSULTING, CUSTOMER EXPANDING

## 1. Process of consulting, customer expanding





## 2. Commitment/ policy on service & product quality

- Constantly improve to enhance customer satisfaction in terms of: quality, quantity, delivery time and reasonable price;
- Highly specialized, focus on efficiency, applying advanced science and technology, use resources rationally, comply with legal regulations to build trust for customers and stakeholders;
- Regularly improve the professional qualifications, workmanship and management skills of employees.
- Create a safe, professional, fair and civilized working environment, improve increasingly income and benefits for employees;
- Organize scientific management and operations, optimize production activities. Maintain and regularly improve the effectiveness of the Quality Management System according to ISO 9001:2015 and IATF 16949:2016.

SINCERELY THANKS!