



Advanced Automotive Technology

We produce most of the parts that the user can see, touch and feel such as automobile interiors, exteriors, and electrical products.

[#AUTOMOTIVE](#), [#BATTERY](#), [#CAR](#)



“Global Auto Parts Supplier” with a salient presence in both the domestic and global automotive industries.

Starting from the production of interior goods for the Pony in 1972, Seoyon E-Hwa has become a company that specializes in door trims, head lining, covering shelves, package trays, screen assemblies and pillar trims.

It has solidified its place in the global market through aggressive overseas investment even during the Asian Financial Crisis. It has also been recognized for its high quality products and advanced technology by obtaining the ‘Grand Quality 5 Star’ in 2011. This was the result of rigorous quality control with the determination to supply top quality products to customers.

Seoyon E-hwa is devoted to securing competitiveness through technological innovation. With excellent researchers, and proactive investment in R&D, it is equipped with up-to-date facilities to conduct research on product design, material development, and assessment.

Seoyon E-Hwa invests its utmost efforts into becoming the “Global Auto Parts Supplier,” with a renowned status in the global automotive industries as well as in Korea, based on customer-satisfaction through creative management that respects humanity.

HISTORY

Recently

- Dec. 2020** Won KIPO Commissioner Prize at 2020 Korea Invention Patent Exhibition(Korea Intellectual Property Office)
- Nov. 2020** Excellent thesis award for BSR Improvement Research Contest(H/KMC)
- Nov. 2020** Won Gold Medal at 46th National Quality Team Competition(Ministry of Trade Industry and Energy)
- Nov. 2020** Selected as a company with excellent quality competitiveness(13 consecutive years)(Ministry of Trade, Industry and Energy)
- May. 2020** Awarded the Minister of Trade, Industry and Energy prize at 14th Ulsan Automobile Day
- Apr. 2020** Changed the location of the H.Q.(Anje Tower in Yeoksam-dong, Seoul → Seoyeon Group R&D Center in Gwanyang-dong, Anyang-si, Gyeonggi-do)

Worldwide Leader

- 2010** Entry into the Georgia
- 2011** Getting National Quality Award
- 2012** Entry into the Poland
- 2014** Established SEOYON Holding Company / Entry into the Mexico / Getting National Quality Award in Slovakia
- 2016** Completion of SEOYON R&D Center / Getting US\$500 Million Exportation Award
- 2017** Awarded the grand prize of this year’s company in enterprise of middle standing / Entry into the Anantapur
- 2018** Awarded the excellent company of quality competitiveness(11years)

Global Expansion

- 1996** Entry into the Turkey
- 2002** Entry into the China / Entry into the India
- 2004** Entry into the Europe
- 2005** Entry into the USA

Establishment & Growth

- 1972** Established SEOYON E-WHA
- 1987** Established SEOYON TOPMETAL
- 1994** Established SEOYON INTECH
- 1997** Established SEOYON CNF



GENERAL STATUS

| Asset | Revenue | Employees | Plant, Office, R&D Office | Consolidated Subsidiaries & Affiliates under the equity method |
|----------------|----------------|--------------|--|---|
| US\$2.5billion | US\$2.6billion | 13,603person | 60ea (51 Plants & Offices + 9 R&D Offices) | 11ea (Korea 8, China 17, India 5, Europe 7, North America 3, Mid & South America 4) |

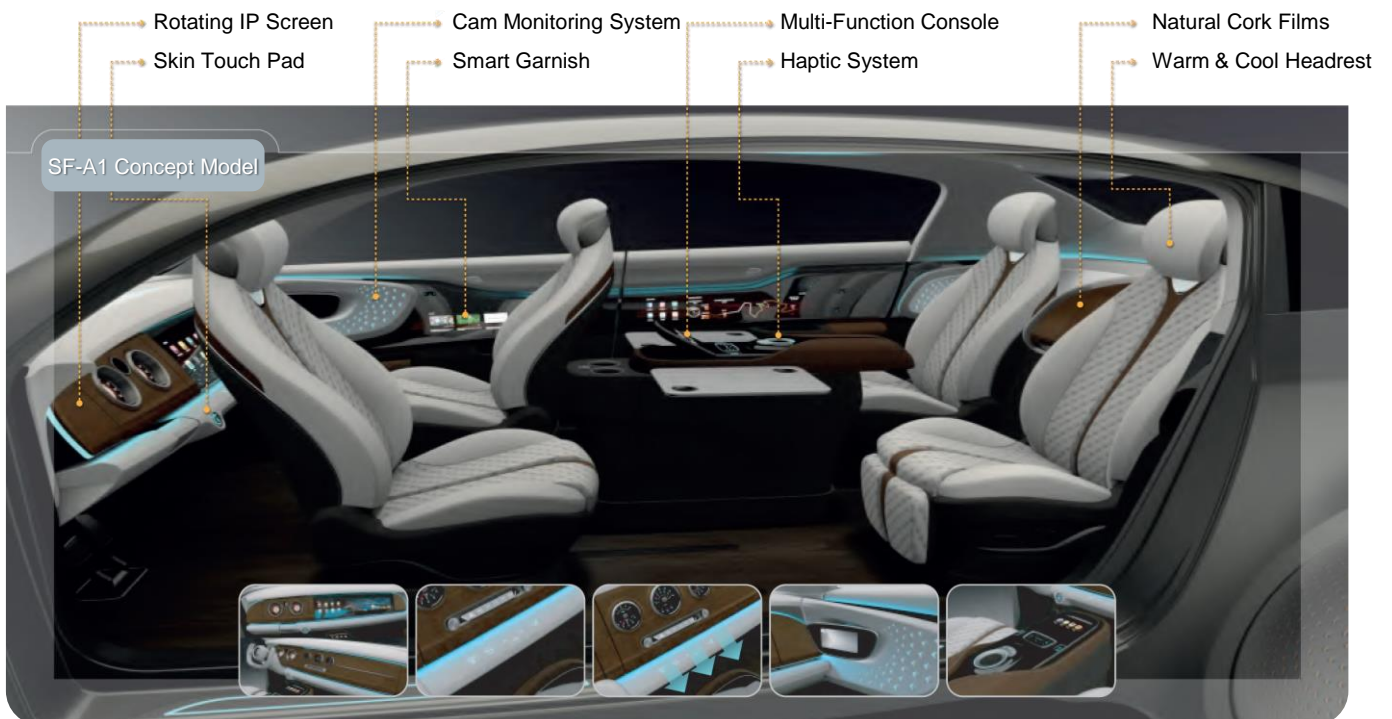
R&D Strategy

We strive for our future vision by securing the cutting-edge technology leading the market through constant research and development.

| ● | ● | ● | ● |
|---|-------------------------------------|--------------------------------------|---|
| Hi-Tech R&D | ECO R&D | Customer Centric R&D | Global R&D |
| Create new value by best quality and new technology | Consider our future and environment | Make special experience of customers | Promote regionally customized R&D in accordance |
| | | | |
| SEOYON R&D Center | Germany R&D Office | China R&D Center | India R&D Center |

Future Technology

The next paradigm represented by electric cars and autonomous vehicles of automotive industry in advance.





Advanced Automotive Technology

The SEOYON Group is a widely recognized global automotive company since its successful mass production of pony seals in 1976. We produce most of the parts that the user can see, touch and feel such as automobile interiors, exteriors, and electrical products. Our goal is to become the leader in the industry that produces the highest quality products that the customer can experience.

Interior & Exterior Parts

SEOYON E-HWA

The global automotive company that produces and supplies interior and exterior parts of automobile, such as door trims, bumpers, seats and more, worldwide.

Mold & Exterior Parts ETC.

SEOYON TOPMETAL

The company that produces various automobile body stamping die, plastic mold and exterior parts for heavy equipment.

SEOYON AUTOVISION

The company that dreams of new growth through the production of headlight bezel and door trims.



Seat & Seat Pad Parts



The company that produces seats for commercial vehicles such as buses and heavy equipment.



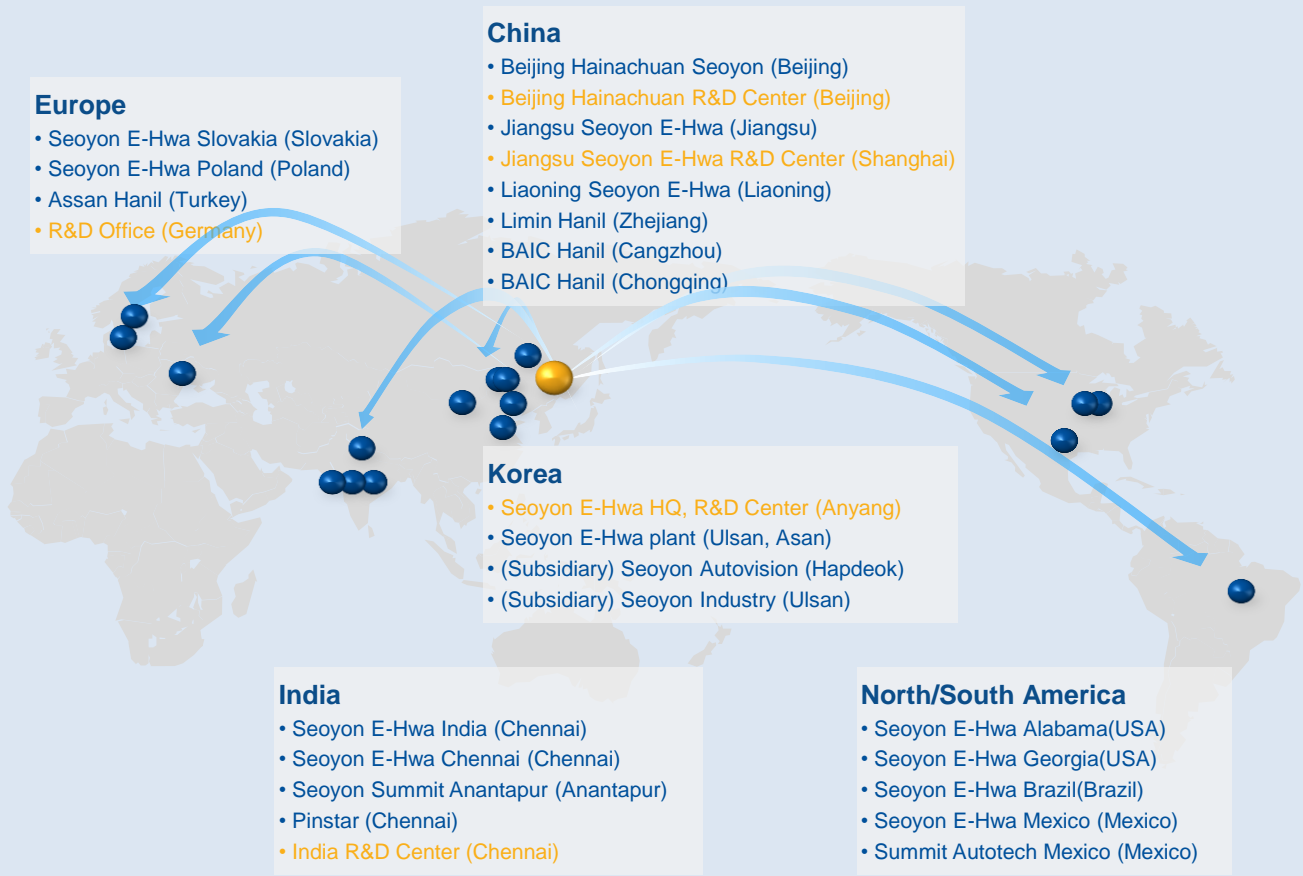
The company that specializes in urethane foaming, which produces automotive seat foam pads and headrests for the protection and the comfort of the passengers.



TECHNICAL DATA

Technical Data Sheet

| Item | Model Name | Remarks |
|--|--------------------------|-------------------------|
| Product Configuration | | |
| Cell | SLPB100216216H | 40 Ah |
| Module | KBM216-13S-HP-40-19-EM-A | 1P13S |
| Rack/String | N/A | 1P1S |
| Bank | N/A | 1Rack per Bank |
| System | KBM216-13S-HP-40-19-EM-A | 1Bank x 1String x 1P13S |
| Item | Specification | Remarks |
| Electrical | | |
| Install Energy | 1.914kWh | |
| Rated Energy | >1.761kWh | 1P-rate discharge, BOL |
| Nominal Voltage | 47.8V | @Cell 3.68V |
| Operating Voltage(Min) | 42.9V | @Cell 3.3V |
| Operating Voltage(Max) | 53.7V | @Cell 4.13V |
| Continuous Charge Power | 1.91kW | 1.0 P-rate |
| Continuous Charge Current | 40.0A | 1.0 C-rate |
| Max. Charge Power(1cycle) | 3.8kW | 2.0 P-rate |
| Max. Charge Current(1cycle) | 80.0A | 2.0 C-rate |
| Continuous Discharge Power | 1.9kW | 1.0 P-rate |
| Continuous Discharge Current | 40.0A | 1.0 C-rate |
| Max. Discharge Power(1cycle) | 5.7kW | 3.0 P-rate |
| Max. Charge Current(1cycle) | 120.0A | 3.0 C-rate |
| Peak Discharge Power(10sec, SOC>50%) | 11.5kW | 6.0 P-rate |
| Peak Discharge Current(10sec, SOC>50%) | 240.0A | 6.0 C-rate |
| Round Trip DC Efficiency | >95.0% | 1P-rate, BOL |
| Mechanical | | |
| Dimension | TBD | W x D x H(mm) |
| Weight | TBD | Approx. |
| Communication & Control | | |
| Control Power | Internal Battery | |
| Upper Device Communication | CAN, RS485, RS232 | |
| Monitoring(for Maintenance) | TBD | |
| Environment | | |
| Ambient Temperature | 25°C±3°C | |
| Storage Humidity | 60±25% | |
| Storage Temperature | 1year | -20~25°C |
| | 6months | 25~35°C |
| | 3months | 35~45°C |
| | <1week | 45~60°C |
| Cooling & Heating System | Air Cooling | |
| Fire Fighting | TBD | |
| Certification | | |
| Cell | 0 | |
| Product | 0 | |



CUSTOMERS





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