



WELDING ROBOT FA SYSTEM

SINDOK

COMPANY PROFILE

Smart & Intelligent Technology

Specialized line builder for
BIW Welding automation
SINDOK

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Letter from the President



SINDOK's
self-reliant and
trustworthy culture
is our strength.

Since we have started our business in 1987, we have played a key role in the development of global automobile industry. We are now focusing on becoming the best global company specializing in engineering and automation solution for body in white(BIW) provider in automobile industry.

SINDOK has 30 years long history and was able to develop high-technical skills, optimum working environment and stable financial condition in the automobile industry. Based on these backgrounds SINDOK has developed many records not only in BIW but also assembly module for global automobile companies.

In addition, based on the management philosophy of respect for human, respect for technology and respect for environment, all of our employees are striving to produce products with the best quality and productivity.

SINDOK's self-reliant and trustworthy culture is our strength.

The best work environment & commitment of our staffs will make our customers to perfectly satisfy on their project.

SINDOK's global business would continue to grow with your deepest interest and encouragement.

慎獨

SINDOK CO.,LTD President
JONG AN PARK

Jong an park

SINDOK Co., Ltd.

SINDOK CO.,LTD provides
technology and automation
solutions for BIW welding.

We were established in 1987
as Keukdong Precision and
has grown to its present shape
based on 30 years of
technology and know-how.

Date of establishment
1987/6/6

Lot Area
33,209m²

Building Area
20,849.31m²

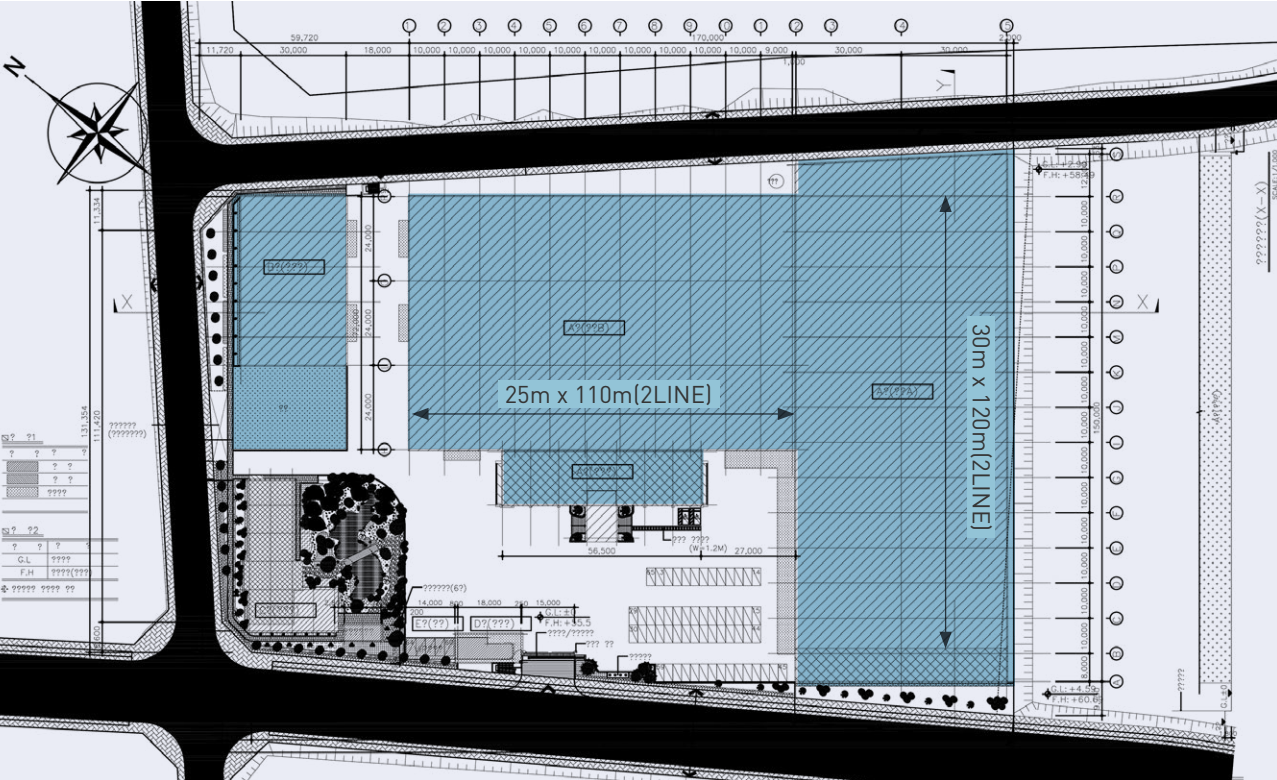
Try-out Area
30m x 130m(2LINE)
25m x 110m(2LINE)

Address
83, Seongjusaneopdanji-ro 5-gil,
Seongju-eup, Seongju-gun,
Gyeongsangbuk-do, Republic of
Korea

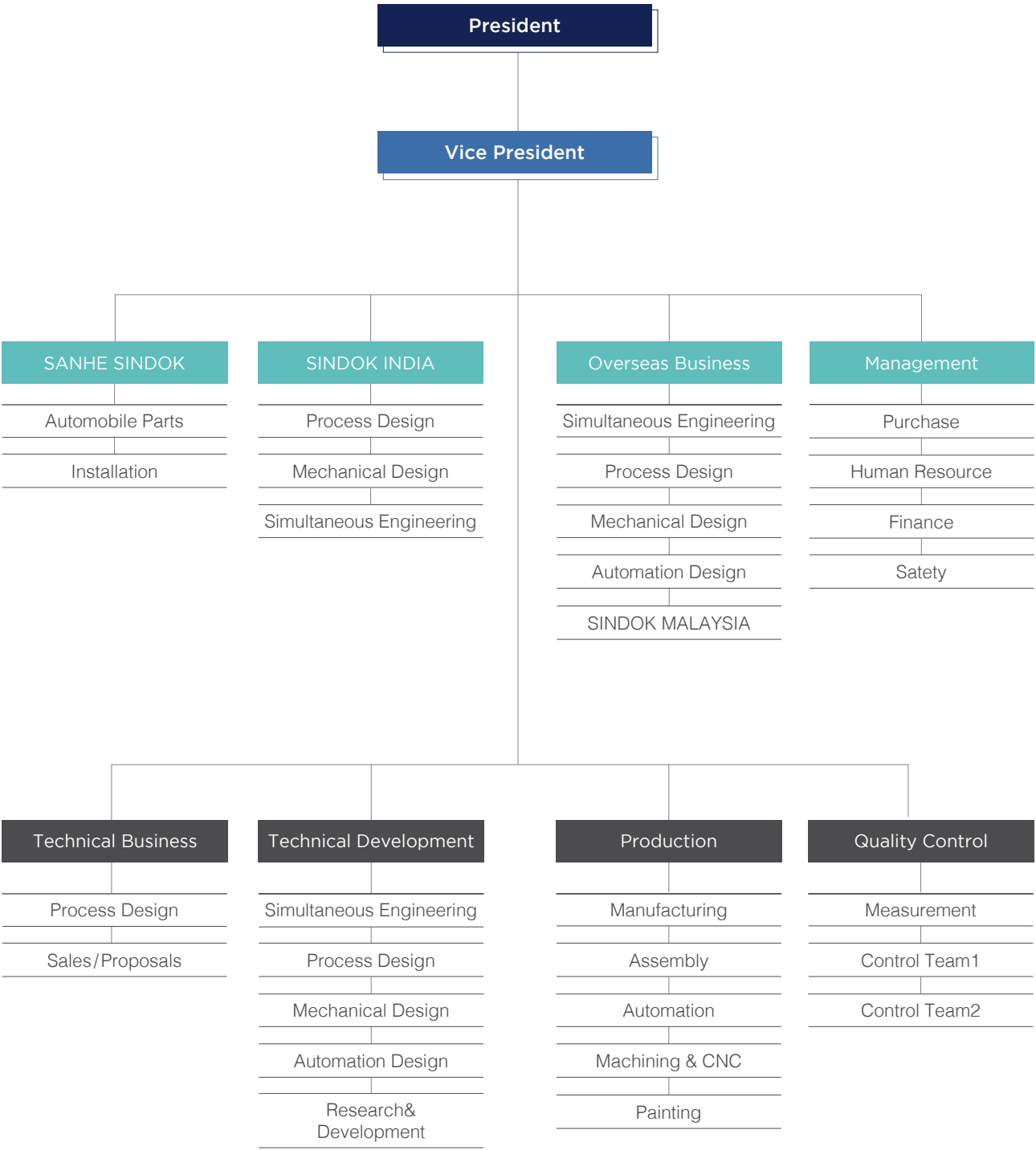




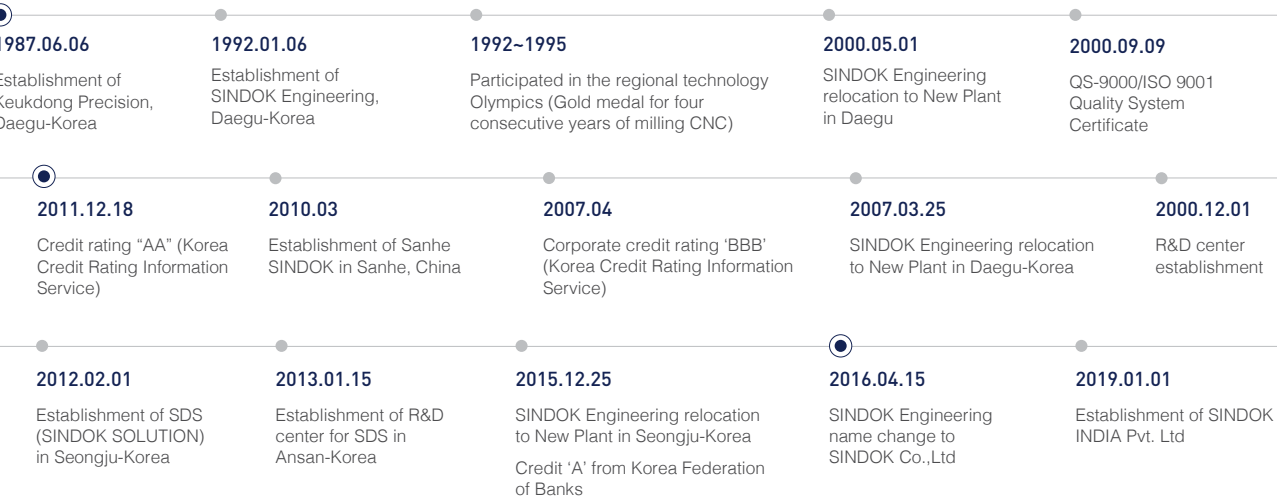
We have space and work facilities to enable all processes done in-house, from Product Designing, Simultaneous Engineering, Machining, Painting, Manufacturing, Measurement.



Organization



History



Awards

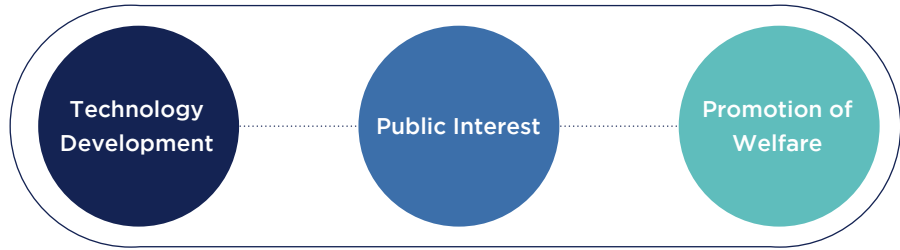
2010~Current

| | |
|------------|--|
| 2017.12.26 | Award of excellence for businesses in Gyeongsangbuk-do(Gyeongsangbuk-do) |
| 2017.12.20 | Technical management innovation for small business awards in Daegu and North Gyeongsang Province(Director of Small and Medium Business in Daegu and North Gyeongsang Province) |
| 2017.10.24 | Appreciation of employees who have succeeded in developing capital goods industry (Ministry of Trade, Industry and Energy) |
| 2016.12.05 | Awarded Prime Minister for Trade Promotion (Ministry of Government Administration and Home Affairs) |
| 2016.09.26 | Selected as pride item for Gyeongsangbuk-do province |
| 2013.07.11 | Selected as a "Star" Company by Daegu Metropolitan City Mayor |
| 2012.12.05 | Awarded for 10 Million dollar Export(President's Award) |
| 2011.12.13 | Award of Daegu Gyeongbukdo Advanced Venture capital grand prize(Mayor of Daegu_City) |
| 2011.04.22 | Select 'Component of Social Contribution/ Management Innovation' in 2011(Seoul Newspaper) |
| 2011.03.29 | Achievement award of Functional Koreans(Ministry of Employment and Labor) |
| 2010.09.07 | Achievement award of excellent assets development |

1992~2008

| | |
|------------|---|
| 2008.05.13 | SMA growth Achievement award(Minister of Ministry of knowledge) |
| 2004.09.02 | Marking outstanding capital development workers(Ministry of Industry and Energy) |
| 2004.01.28 | Marked as a business leader for promoting business exchanges(Daegu Metropolitan Market) |
| 2002.09.05 | Awarded Minister prize for Technical renovation(Ministry of Commerce, Industry and Energy) |
| 2001.03.28 | Awarded for upbringing contribution to Skills Competition(Mayor of Daegu_City) |
| 1992~1995 | Awarded for Excellent leadership for four straight years (Gyeongsangbuk-do provincial governor) |

Vision



Mission

By providing customers with High Quality Solution, we lead the global automotive industry and implement human happiness.

Goals

Global No.5 \$ 150million Sales Building Human-centered company culture

Core value

| | |
|----------------------------|---|
| Human resource development | Development of human resources by establishing human resource development system |
| Challenging spirit | Foster a spirit of positive thinking |
| Ownership | Developing owner's consciousness to handle own tasks with independent will for all activities |

Management

| Management Philosophy | Management Policy |
|----------------------------------|------------------------------------|
| 01 Respect of humans | 01 Management of the belief |
| 02 Respect of the technology | 02 Management of the scene |
| 03 Respect of the environment | 03 Management of the prosperity |

SINDOK SDS Corporation

Date of establishment
2012/2/1

Lot Area
13,801m²

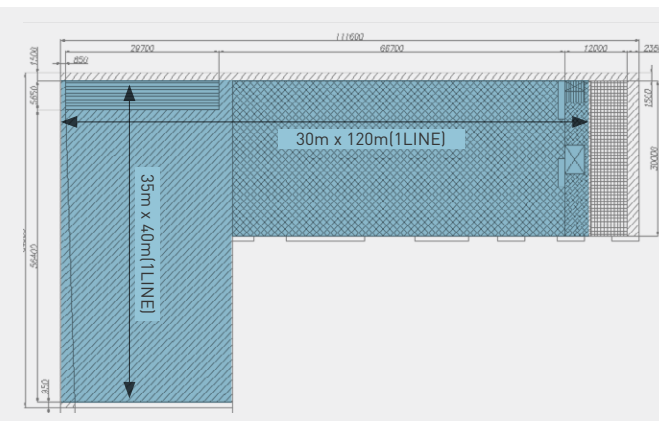
Building Area
10,739m²

Try-out Area
30m x 120m(1LINE)
35m x 40m(1LINE)

Address
21, Wolhangnonggongdanji
1-gil, Wolhang-myeon, Seongju-
gun, Gyeongsangbuk-do,
Republic of Korea

Ansan R&D Center

Date of establishment | 2012/11/1
Address | 354, Gwangdeok 4-ro,
Sangnok-gu, Ansan-si, Gyeonggi-
do, Republic of Korea



R&D



New material
technology
System Development



High speed
F.S.W
(Friction Stir Welding)



Laser
SPOT System
Development



Application
of
STITCH



SPC System
(Statistical
Process Control)



F.M.S
(Flexible
Manufacturing System)



P.T.S
(Program
Tracking System)

Investment & Business

- System design & Automation control technical research investment
- R&D-Registration of patent-technique commercialization
- System Branding
- Supply to major company and End user

三河慎独 SANHE SINDOK AUTOTECH EQUIPMENT Co., Ltd.

Date of establishment
2010/4/20

Lot Area
30,107m²

Building Area
10,518m²

Address
No.4 Huaguan Street., Yanjiao
Economic Develop Zone, Sanhe
City, Hebei Prov., China



PRESS DEPARTMENT

■ BLANK LINE

1. 315/160TON PRESS & NC FEEDER
2. 250/160TON PRESS & NC FEEDER

■ TANDEM LINE

| | | | | |
|---|--------|--------|--------|--------|
| ① | 160TON | 110TON | 80TON | 80TON |
| ② | 200TON | 160TON | 160TON | 110TON |
| ③ | 200TON | 160TON | 110TON | 110TON |
| ④ | 250TON | 200TON | 200TON | 200TON |
| ⑤ | 315TON | 250TON | 200TON | 160TON |

ASS'Y DEPARTMENT

■ SPOT LINE

ASP 100(100KVA,150KVA)

■ FEEDER

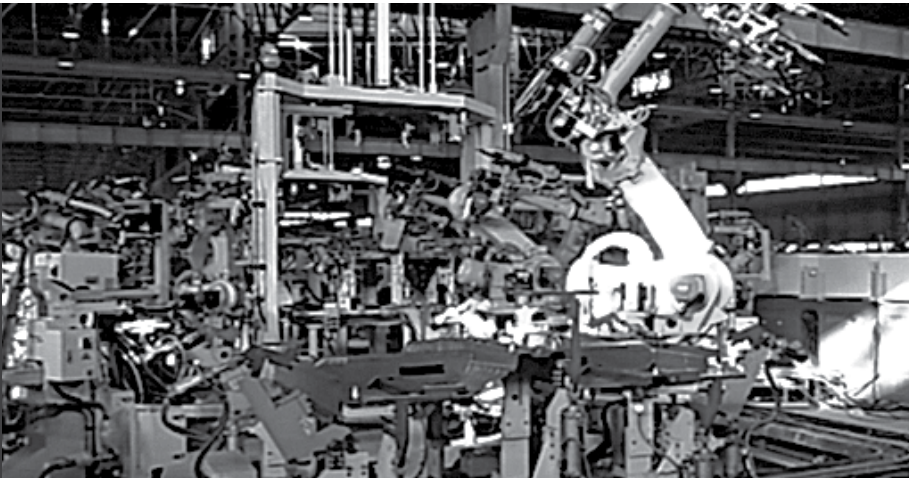
M6,M8 & SPL NET

■ CO₂ ROBOT

■ SPOT ROBOT

■ CO₂ Manual Welding

■ PORTABLE Welding



History

2010.04

Establishment of SANHE
SINDOK AUTOTECH
EQUIPMENT, Beijing, China

2010.09

SQ(Supplier-Quality
Mark) Certification-
PRESS/WELDING

2012.03

Factory relocation
to New Plant-
SANHE YANJIAO

2015.07

TS16949 SYSTEM
Certification In
CHINA

2016.11

Selected as a state
represent technology
company(Beijing, China)

2017.03

Establishment of
SANHE SINDOK
installation division

Main Business Status



BODY DIE & PRESS



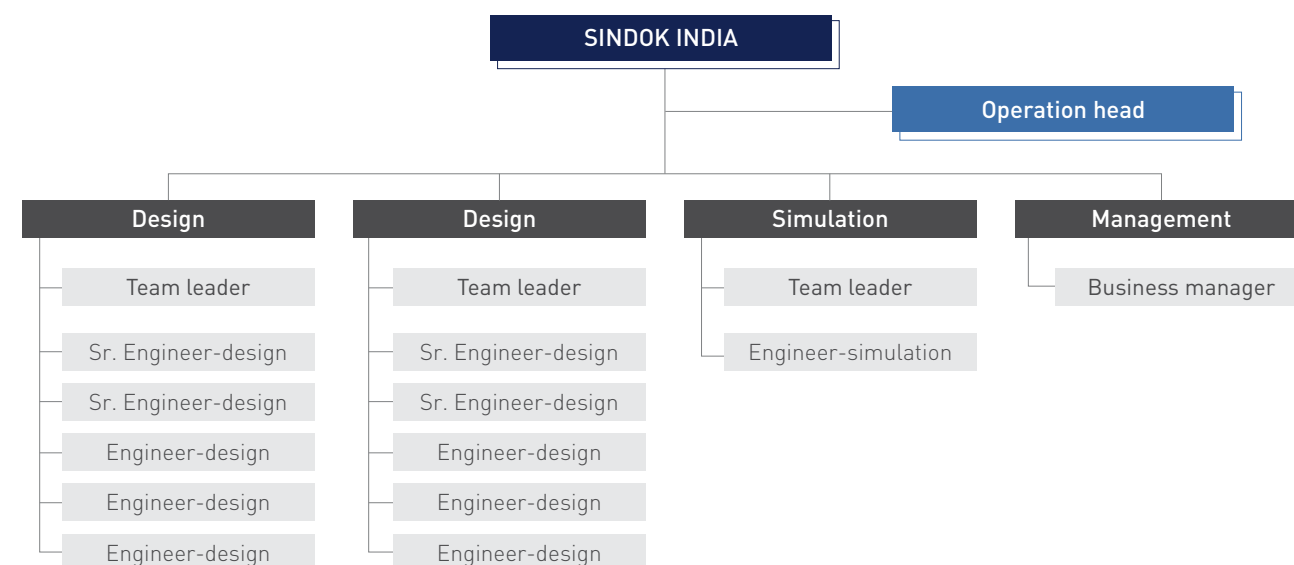
BODY FRAMING
ASSEMBLY PRODUCTION

SINDOK SINDOK INDIA Pvt.Ltd

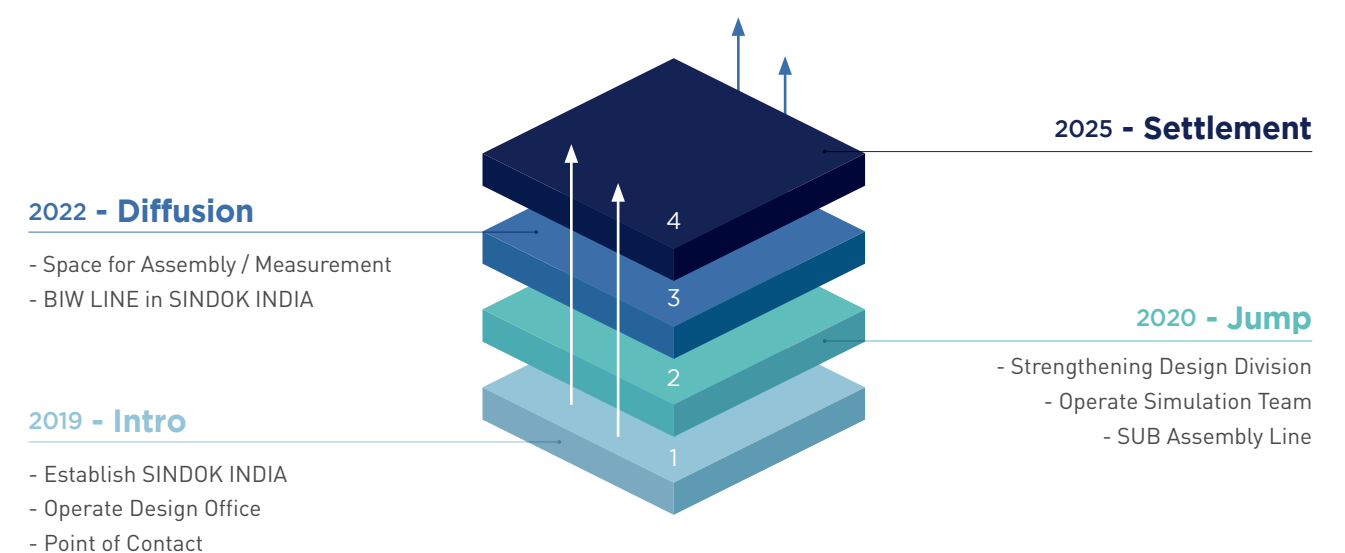
Date of establishment
2019/1/1

Address
Pune, INDIA

SINDOK INDIA Organization Chart



SINDOK INDIA Future Plan



Business Overview



Main Business

MAIN BUCK WELDING SYSTEM

SINDOK has diverse experiences and professional skills for MAINBUCK assembly process which is the core technology of vehicle body.

TRANSFER SYSTEM

SINDOK has unique transport technology between vehicle body production process, such as roller bed, overhead shuttle, under shuttle and many other systems.

FMS SYSTEM

SINDOK can provide FMS system by using magnetic levitation carrying system and friction driving systems.

HEMMING

PRESS-HEMMING
ROBOT-ROLL-HEMMING
MANUAL-HEMMING
TABLE-TOP HEMMING

- Production Automation System of BODY FRAMING
- Production Automation System of BODY & CHASSIS MODULE
 1. Automation of ROBOT
 2. Automation of PLC Control
- Auto Transfer System
- Opening Parts HEMMING SYSTEM
- Inspection Fixture
- Other systems & Equipments



Welding Robot Automation System

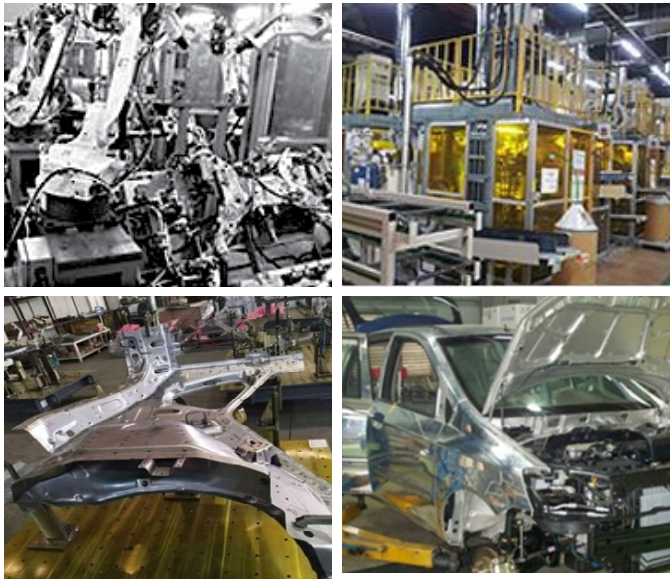
Production Automation System

1. Production Automation System for BODY MODULE
(Spot Welding)
2. Production Automation System of CHASSIS MODULE
(CO₂ Welding)
3. Other Systems
 - Auto Pallet System
 - Robot Carriage
 - Transfer System
 - Robot Tilting System

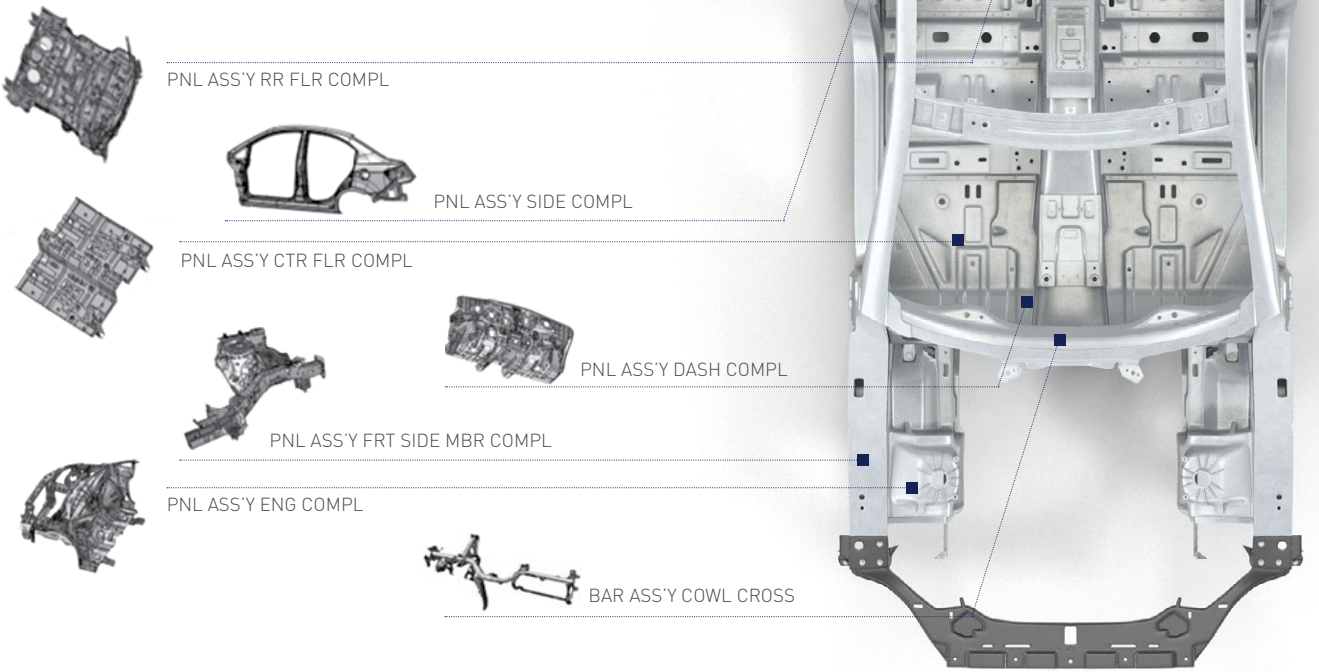
Other Equipment

1. Inspection Fixture
2. Aperture Gauge
3. Screw Body
4. PROTO-TYPE CAR Die & Jig & Part Production

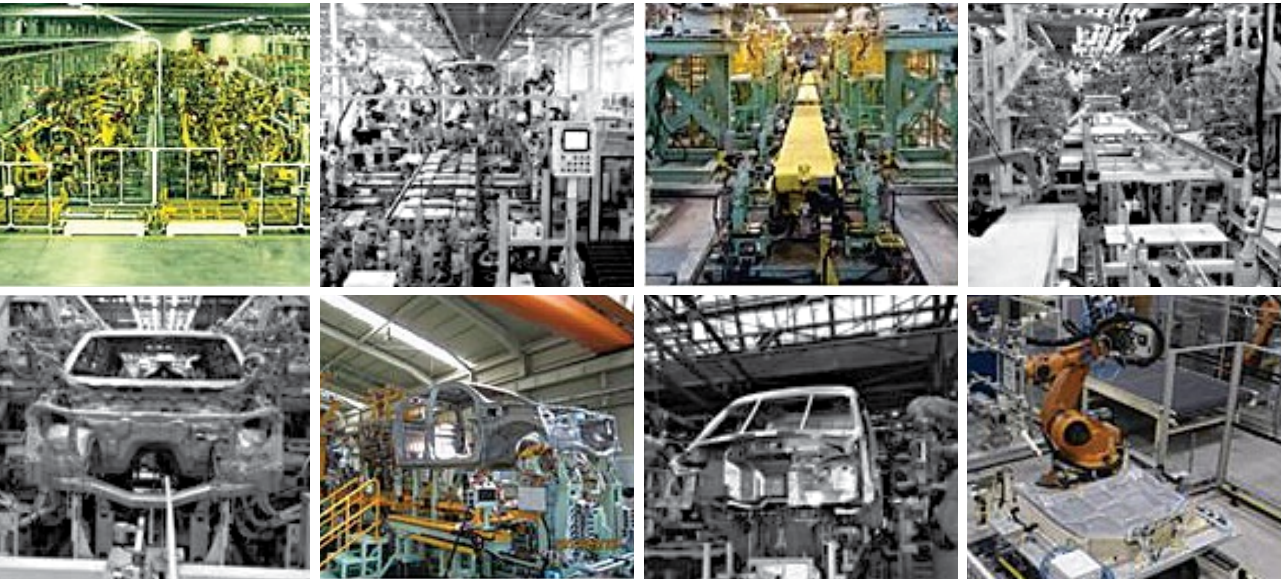
Chassis Welding Line

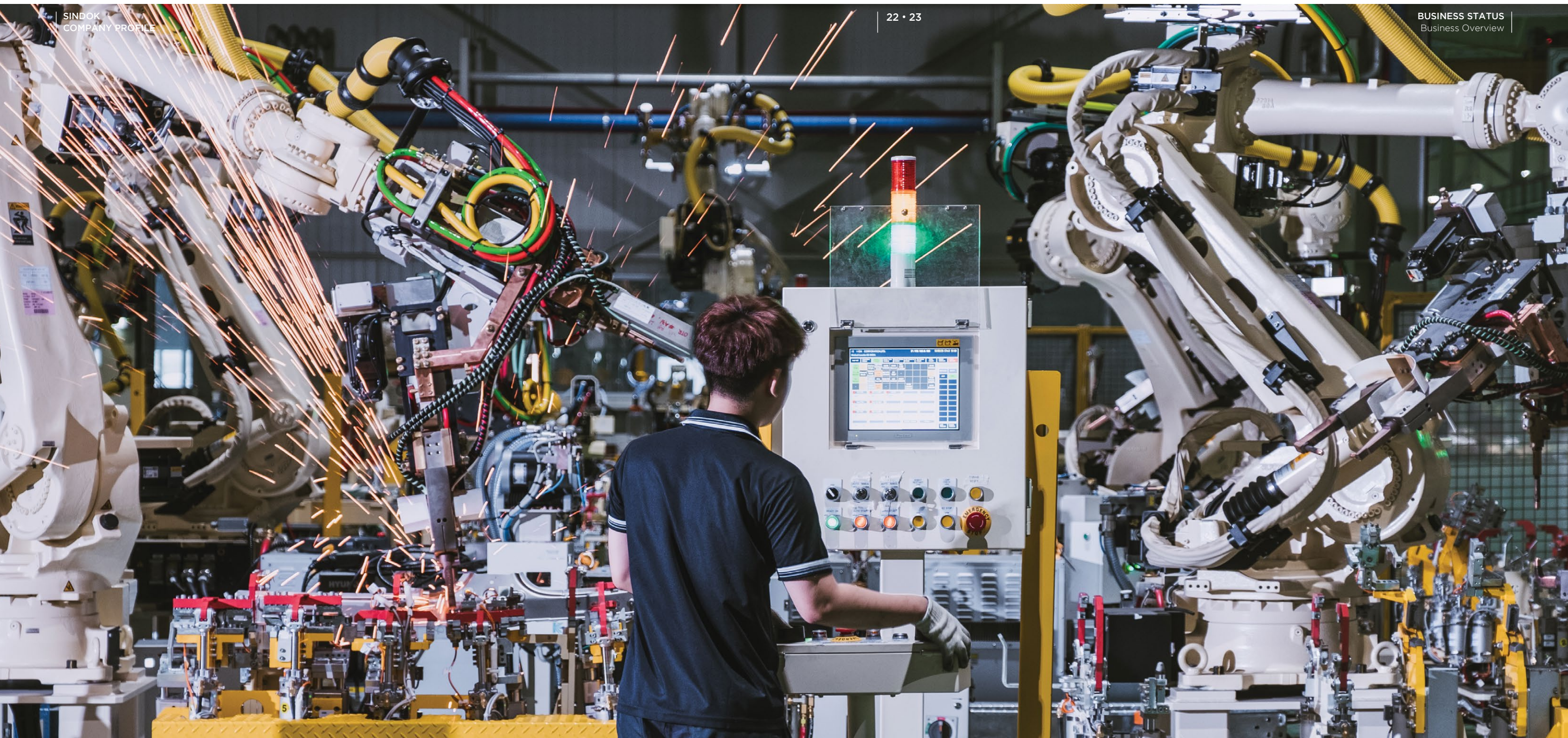


Automotive Body Welding and Robot Automation



BIW Welding Line





Technical Capabilities

Cost saving,
Time reduction

Product Design

Cost reduction

Product Design

SE Planning

Body production

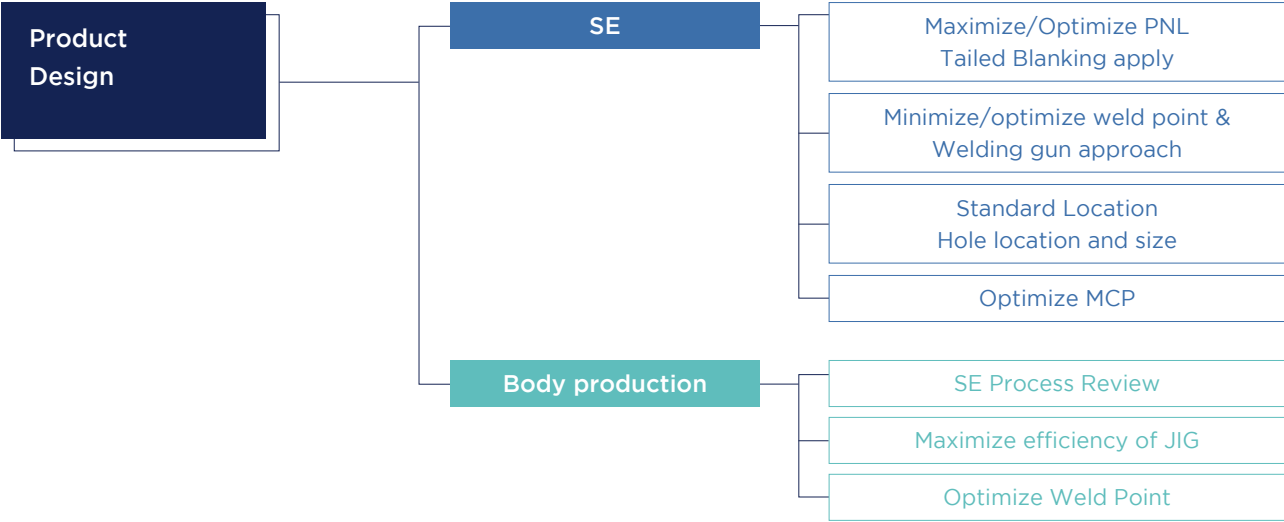
Weld Equipment

Equipment Purchase

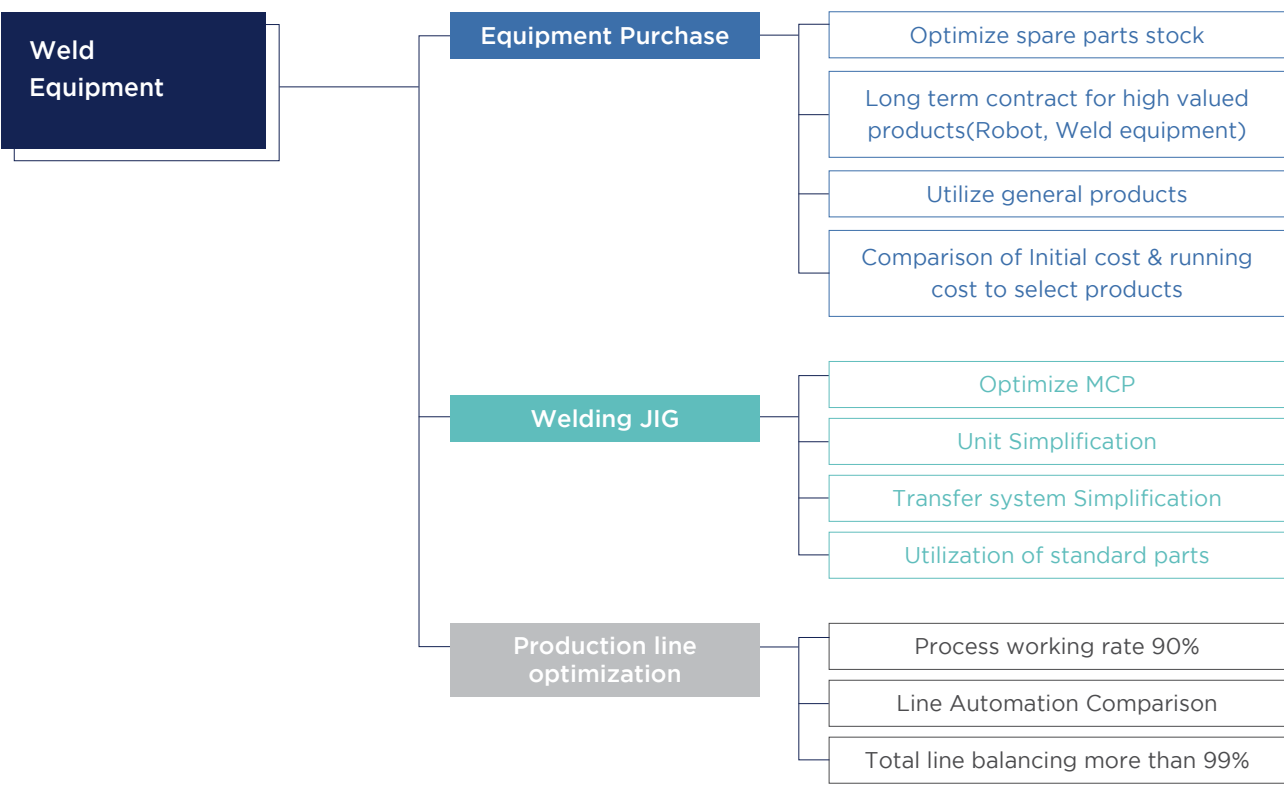
Welding JIG

Production line optimization

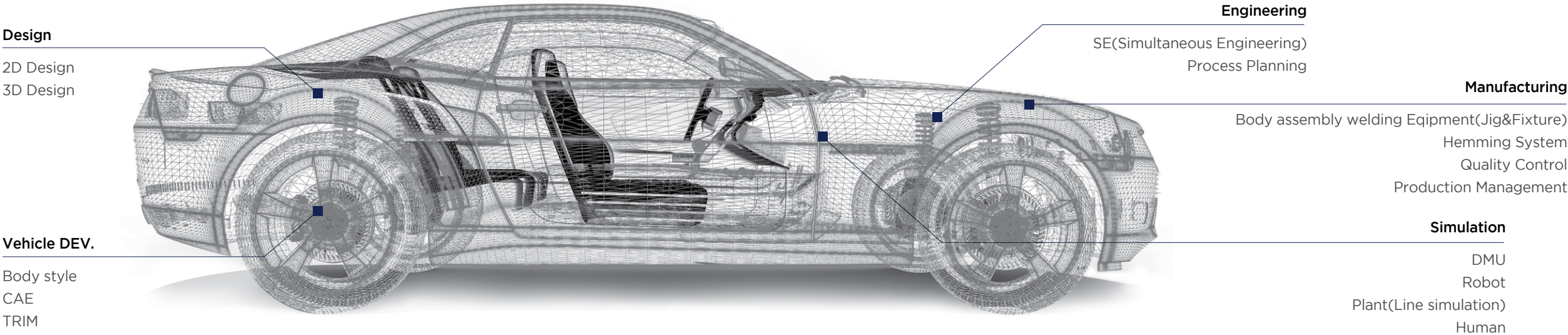
Product Design



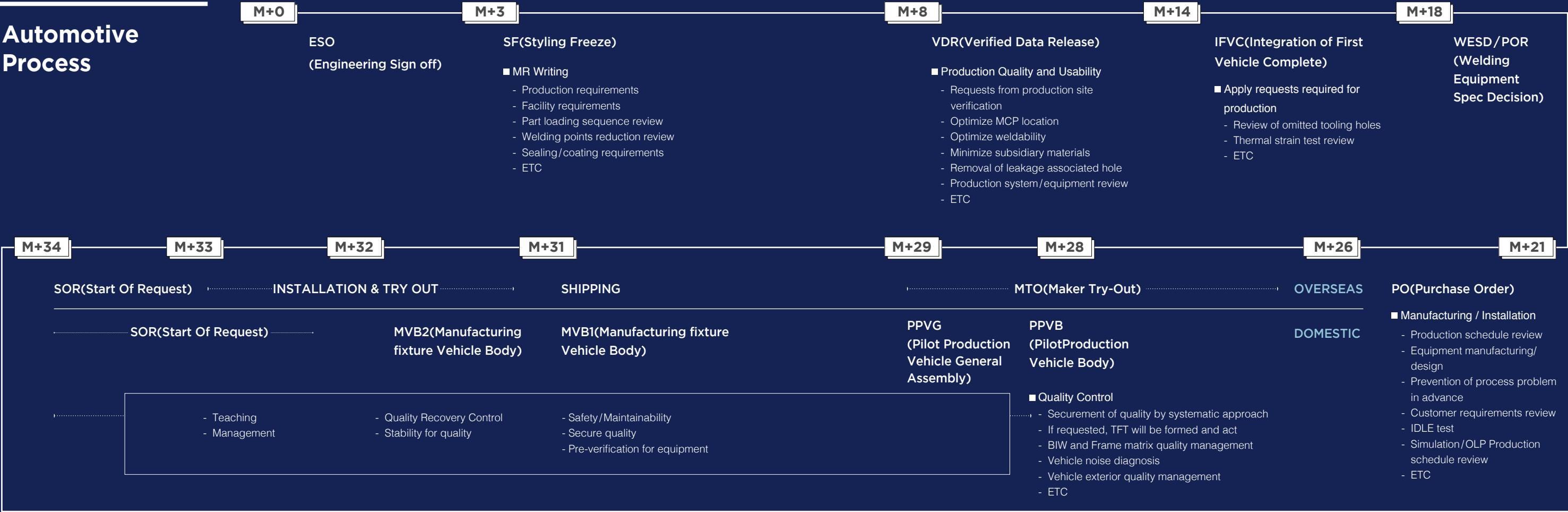
Weld Equipment



Automotive
Process Overview



Automotive
Process



Hemming Development Performance



MANUAL
TOOL

GSV EM
GM(ECUADOR)

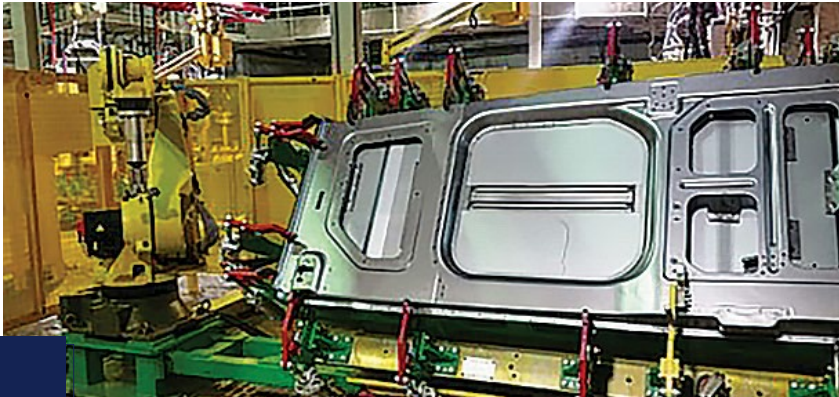
SGM308
GM(COLOMBIA)

G NEXT DOUBLE
GAZ(RUSSIA)

G NEXT Single
GAZ(RUSSIA)

H2L
JINBEI(CHINA)

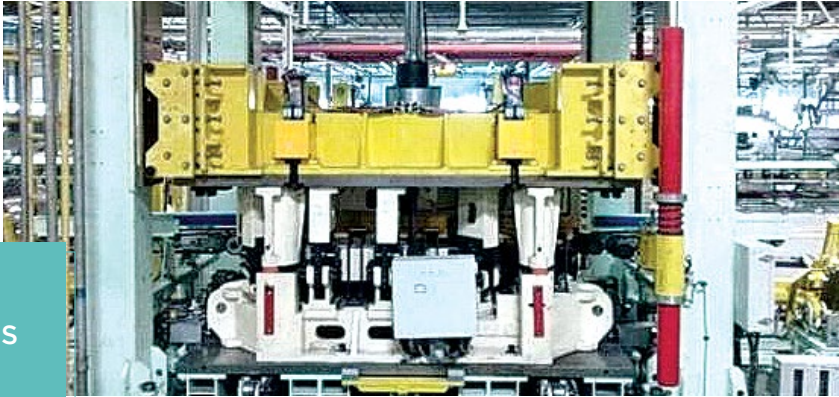
G NEXT Van & Combi
GAZ(RUSSIA)



ROBOT
ROLL

IB
HMC(INDIA)

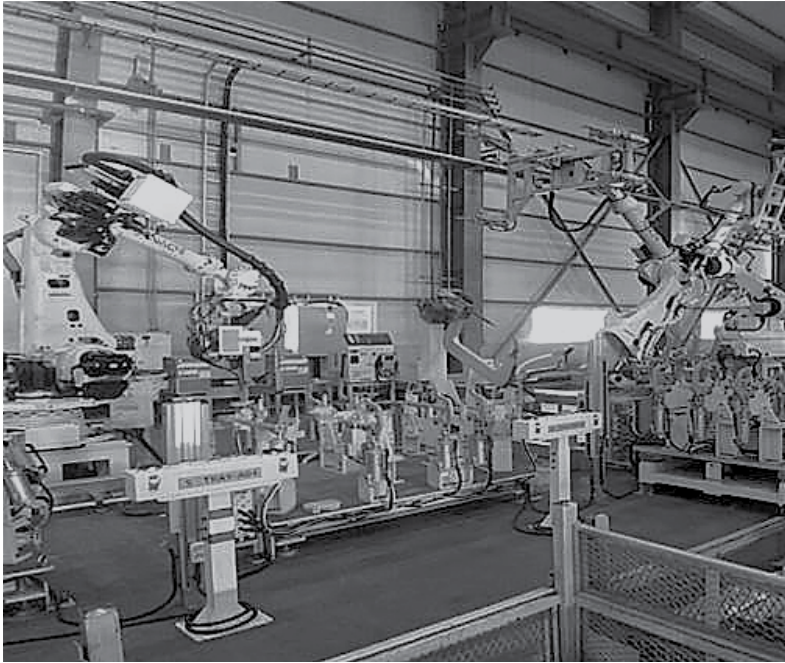
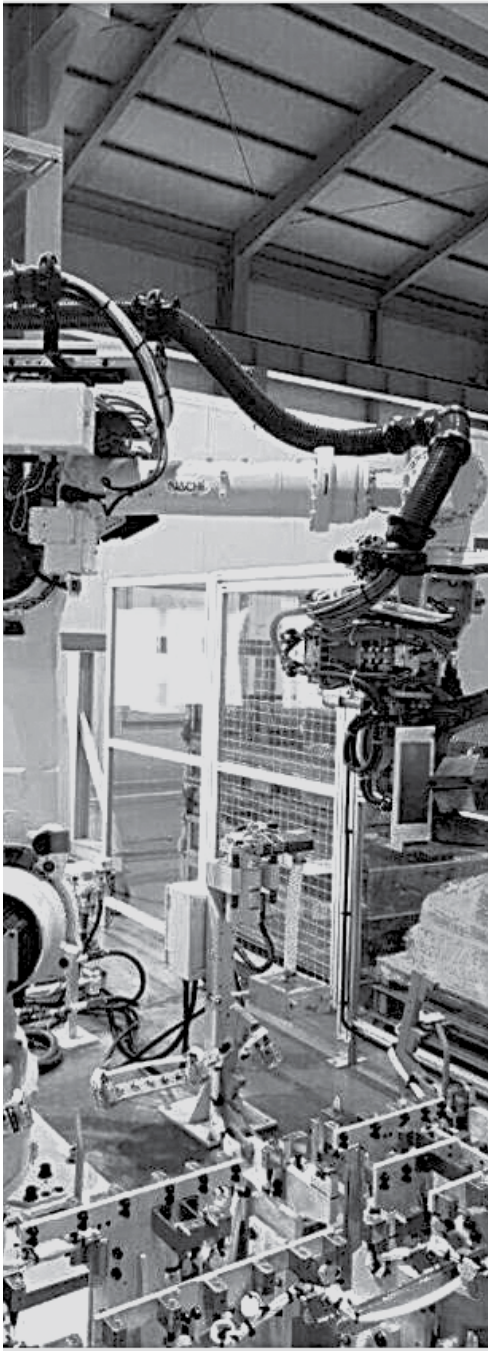
AH2
MS-AUTOCH



PRESS

Battery Pack TRAY & UPR LINE

In line with the development of electric vehicles for domestic and overseas automakers, we are also involved in the development of production facilities and methods for the battery pack tray & UPR line. We aim to provide the best service to our customers from the development of the process to the production of the equipment and the quality assurance.



Domestic and Overseas Business Performance

| Domestic Project | | | | | |
|------------------|-------------------------|--------|------------------------------------|-----------------------|---------------|
| Project Name | Vehicle | JPH | ITEM Name | Period of Development | Manufacturing |
| OS-EV | HYUNDAI - KONA ELECTRIC | 12 JPH | Electric Vehicle Line Modification | 2018.07~2018.09 | SEWON |
| RG3 | HYUNDAI - G80 | 22 JPH | PNL ASS'Y RR FLR COMPL | 2018.07~2018.10 | MS AUTOTECH |
| OS HEV | HYUNDAI - KONA HYBRID | 45 JPH | PNL ASSY F/APRON & S/MBR | 2018.05~2018.07 | MS AUTOTECH |
| DN8 | HYUNDAI - SONATA | 57 JPH | PNL ASS'Y CTR FLR COMPL/SIDE SILL | 2018.02~2018.04 | SEWON |
| QXK | HYUNDAI | 28 JPH | PNL ASS'Y RR FLR COMPL | 2018.01~2018.03 | SEWON |
| QXK | HYUNDAI | 27 JPH | PROJECT(QTR COMPL, TAILGATE) | 2018.01~2018.03 | MS AUTOTECH |
| DE-EV | KIA - NIRO ELECTRIC | 7 JPH | Electric Vehicle Model Addition | 2017.08~2017.09 | SEWON |
| OS-EV | HYUNDAI - KONA ELECTRIC | 57 JPH | PNL ASS'Y RR FLR COMPL | 2017.06~2017.08 | SEWON |
| OS-EV | HYUNDAI - KONA ELECTRIC | 57 JPH | Electric Vehicle Model Addition | 2017.06~2017.08 | MS AUTOTECH |
| TM | HYUNDAI - SANTAFE | 48 JPH | BAR ASS'Y COWL CROSS | 2017.04~2017.06 | SEWON |
| OS | HYUNDAI - KONA | 50 JPH | PNL ASS'Y F/APRON & S/MBR COMPL | 2016.04~2017.05 | MS AUTOTECH |
| OS | HYUNDAI - KONA | 50 JPH | PNL ASS'Y RR FLR COMPL | 2016.04~2017.05 | SEWON |
| YB | KIA - STONIC | 35 JPH | PNL ASS'Y F/APRON & S/MBR COMPL | 2015.10~2016.02 | MS AUTOTECH |
| PD | HYUNDAI - I30 | 52 JPH | PNL ASS'Y RR FLR COMPL | 2015.08~2015.12 | SEWON |
| DE | KIA - NIRO | 22 JPH | PNL ASS'Y RR FLR COMPL | 2015.04~2015.07 | SEWON |
| HI | HYUNDAI - EQ900 | 7 JPH | PROJECT(RR FLR, C/CROSS) | 2015.04~2015.06 | SEWON |
| JF | KIA - K5 | 48 JPH | PNL ASS'Y CTR FLR COMPL | 2014.07~2014.10 | SEWON |
| TL | HYUNDAI - TUCSON | 45 JPH | (F/APRON, & MBR;, C/CROSS) | 2014.03~2014.06 | SEWON |
| UM | KIA - SORENTO | 32 JPH | PROJECT(CTR FLR, C/CROSS) | 2013.09~2013.12 | SEWON |
| YP | KIA - CANIVAL | 26 JPH | PNL ASS'Y RR & FRT FLR COMPL | 2013.06~2013.10 | MS AUTOTECH |
| DH | HYUNDAI - G80 | 17 JPH | BAR ASS'Y COWL CROSS | 2013.02~2013.05 | SEWON |
| XM(F/L) | KIA - SORENTO | 35 JPH | PNL ASS'Y F/APRON & MBR COMPL | 2011.08~2011.11 | SEWON |
| DM | HYUNDAI - SANTAFE | 33 JPH | PNL ASS'Y RR FLR COMPL | 2011.05~2011.09 | SEWON |
| GD | HYUNDAI - I30 | 52 JPH | PNL ASS'Y F/APRON & MBR COMPL | 2010.11~2011.03 | SEWON |
| UB | KIA - PRIDE | 65 JPH | FRT CROSS MBR Welding LINE | 2010.09~2010.12 | HWASHIN |
| UB | KIA - PRIDE | 65 JPH | PNL ASS'Y F/APRON & MBR COMPL | 2010.06~2010.09 | MS AUTOTECH |
| TA | KIA - MORNING | 65 JPH | PNL ASS'Y CTR FLR COMPL | 2010.03~2011.06 | SEWON |
| KH | KIA - K9 | 6 JPH | PNL ASS'Y RR FLR COMPL | 2010.03~2010.07 | MS AUTOTECH |
| FS/VF | HYUNDAI - VELOSTER | 52 JPH | PNL ASS'Y F/APRON & MBR COMPL | 2010.03~2010.06 | SEWON |
| RBK | HYUNDAI - ACCENT | 48 JPH | PNL ASS'Y RR FLR COMPL | 2010.01~2010.04 | SEWON |
| TF | KIA - K5 | 37 JPH | FRT CROSS MBR LINE | 2010.01~2010.03 | SEWON |

| Overseas Project | | | | | |
|------------------|------------------|----------------------------|--------------|-----------------------|------------------------|
| Nation | Project name | Vehicle | JPH | Period of Development | Manufacturing Company |
| China | SU2 | HYUNDAI - CRETA | 20 JPH | 2018.07 ~ | SEWON(Beijing-China) |
| | SQc | HYUNDAI - LAFESTA | 20 JPH | 2017.07 ~ 2018.07 | SEWON(Chongqing-China) |
| | OSc | HYUNDAI - KONA | 12 JPH | 2017.04 ~ 2018.05 | SEWON(Chongqing-China) |
| | NU | HYUNDAI - IX35 | 20 JPH | 2016.11 ~ 2017.01 | SEWON(Beijing-China) |
| | ID | HYUNDAI - CELESTA | 54 JPH | 2015.11 ~ 2016.01 | SEWON(Huanghe-China) |
| | CB | HYUNDAI VEHICLE | 26 JPH | 2015.06 ~ 2015.08 | SEWON(Chongqing-China) |
| | ADc | HYUNDAI - AVANTE | 56 JPH | 2015.01 ~ 2016.02 | SEWON(Beijing-China) |
| | YC | HYUNDAI - SONATA | 48 JPH | 2014.11 ~ 2015.11 | SEWON(Beijing-China) |
| | GC | HYUNDAI - IX25 | 17 JPH | 2013.06 ~ 2014.06 | SEWON(Beijing-China) |
| | CF | HYUNDAI - SONATA | 16 JPH | 2012.09 ~ 2013.06 | SEWON(Beijing-China) |
| | H2L/H2S | HUACHENJINBEI - HAISHI H2S | 8 JPH/10 JPH | 2012.09 ~ 2013.01 | HUACHENJINBEI(China) |
| | DMc | HYUNDAI - SANTAFE | 17 JPH | 2011.12 ~ 2012.06 | SEWON(Beijing-China) |
| | MDc | HYUNDAI - AVANTE | 34 JPH | 2011.05 ~ 2012.03 | SEWON(Beijing-China) |
| | YFc | HYUNDAI - YF SONATA | 34 JPH | 2010.02 ~ 2010.07 | SEWON(Beijing-China) |
| Russia | G NEXT VAN&COMBI | G NEXT VAN | 12 JPH | 2014.06 ~ 2015.09 | GAZ(Russia) |
| | LDT | GAZELLE | 12 JPH | 2013.06 ~ 2014.02 | GAZ(Russia) |
| | G NEXT | GAZELLE | 11 JPH | 2012.11 ~ 2013.09 | GAZ(Russia) |
| North America | ON | KIA - TELLURIDE | 15 JPH | 2018.07 ~ | SEWON(Georgia-USA) |
| | TMa | SANTAFE | 26 JPH | 2017.04 ~ 2018.04 | SEWON(Alabama) |
| | Jfa | KIA - K5 | 29 JPH | 2014.07 ~ 2015.07 | SEWON(Georgia-USA) |
| | Uma | KIA - SORENTO | 34 JPH | 2013.09 ~ 2014.09 | SEWON(Georgia-USA) |
| | AN | SANTAFE | 34 JPH | 2011.06 ~ 2012.07 | SEWON(Georgia-USA) |
| | XMa(F/L) | KIA - SORENTO | 34 JPH | 2011.11 ~ 2012.05 | SEWON(Georgia-USA) |
| South America | BR2 | HYUNDAI - I20 | 28 JPH | 2017.02 ~ 2018.03 | HWASHIN(Brazil) |
| | M300 | GM VEHICLE | 11 JPH | 2016.08 ~ 2017.08 | CHEVROLET(Colombia) |
| | RT 50 | GM VEHICLE | 10 JPH | 2012.04 ~ 2012.11 | CHEVROLET(Ecuador) |
| | GSV EM | GM VEHICLE | 8 JPH | 2011.10 ~ 2012.04 | CHEVROLET(Colombia) |
| | SGM308 | GM VEHICLE | 8 JPH | 2011.09 ~ 2012.04 | CHEVROLET(Colombia) |
| India | QXI | HYUNDAI - STYX | 13 JPH | 2018.03 ~ | MS AUTOTECH(India) |
| | AI3 | IYUNDAI - I10 | 36 JPH | 2018.02 ~ | SUNGWOO |
| | AH2 | HYUNDAI - SANTRO | 18 JPH | 2017.04 ~ 2018.05 | MS AUTOTECH(India) |
| | HCI | HYUNDAI - VERNA | 24 JPH | 2016.05 ~ 2017.07 | HWASHIN(India) |
| | HCI | HYUNDAI - VERNA | 32 JPH | 2016.04 ~ 2017.05 | MS AUTOTECH(India) |
| | B515 | FORD FIESTA SUV | 42 JPH | 2015.01 ~ 2015.08 | Gestamp(India) |
| | IB | HYUNDAI - I20 | 48 JPH | 2013.04 ~ 2014.04 | MS AUTOTECH(India) |
| | RBI | HYUNDAI - VERNA | 25 JPH | 2011.06 ~ 2012.06 | MS AUTOTECH(India) |
| Malaysia | P2-30A | PROTON VEHICLE | 9 JPH | 2013.03 ~ 2013.12 | PROTON(Malaysia) |
| | P3-21A | PROTON VEHICLE | 26 JPH | 2010.11 ~ 2011.06 | PROTON(Malaysia) |
| | D54T | PERODUA VEHICLE | 17 JPH | 2009.10 ~ 2010.06 | PERODUA(Malaysia) |



Project.
GAZELLE NEXT

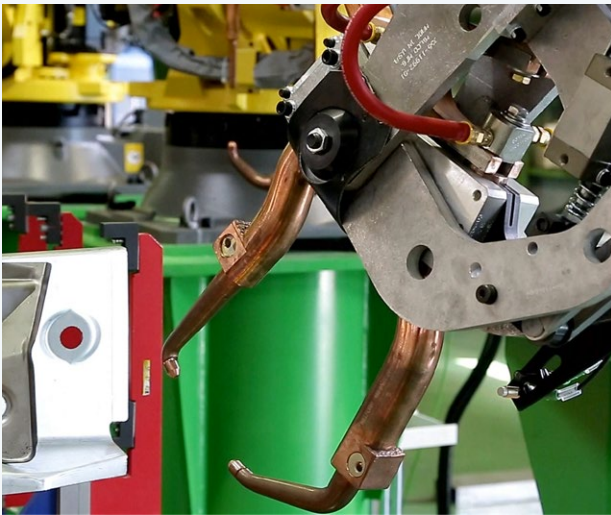
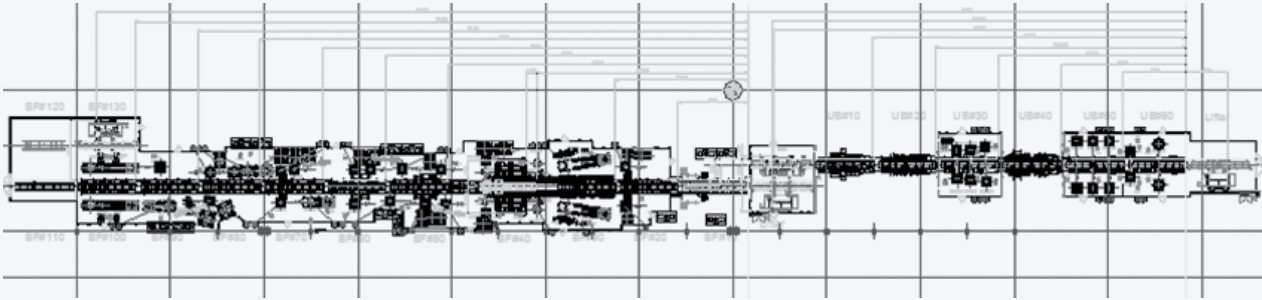
Client.
RUSSIA GAZ

Model.
GAZELLE NEXT - VAN

Volume.
12JPH

SPOT Robot.
86

**BODY SHOP
WELDING LINE**



Brilliance Auto
华晨汽车

Project.
H2L / H2S

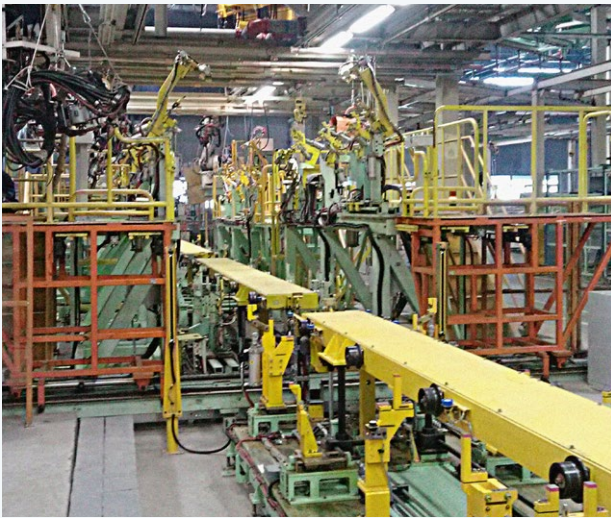
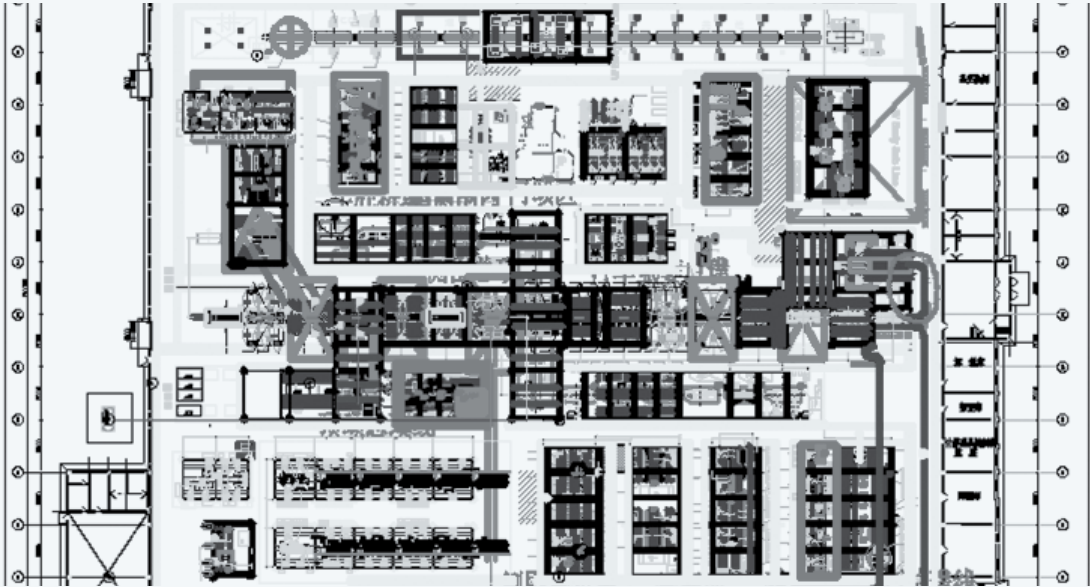
Client.
CHINA HUACHEN JINBEI

Model.
新海狮

Volume.
8JPH / 10JPH

SPOT Robot.
12 / 16

**BODY SHOP
WELDING LINE**





Project.

RT 50

Client.

Ecuador GM

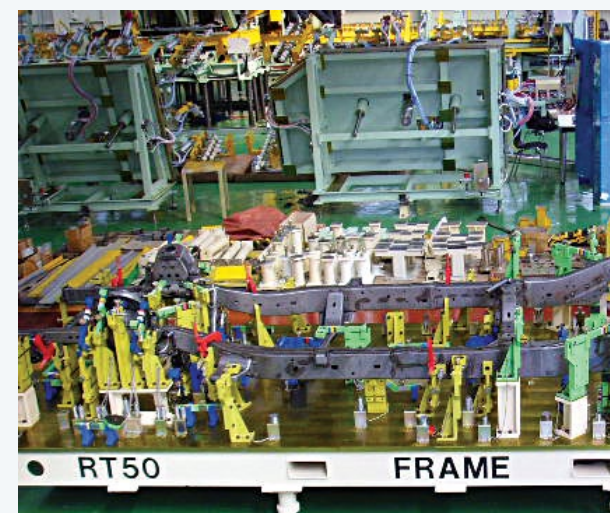
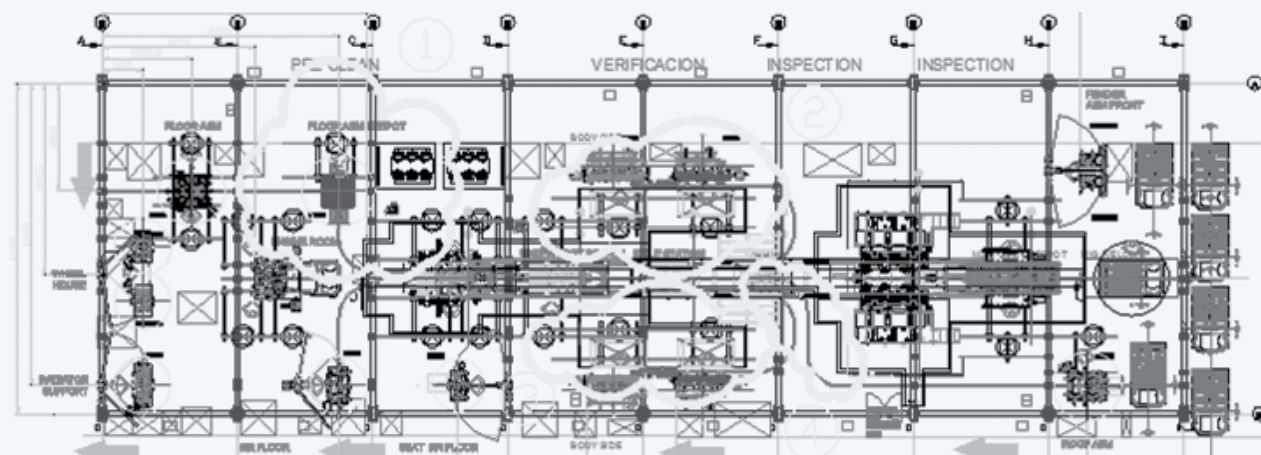
Model.

Chevrolet RT50

Volume.

10JPH

SEMI MODULE / BODY SHOP WELDING LINE





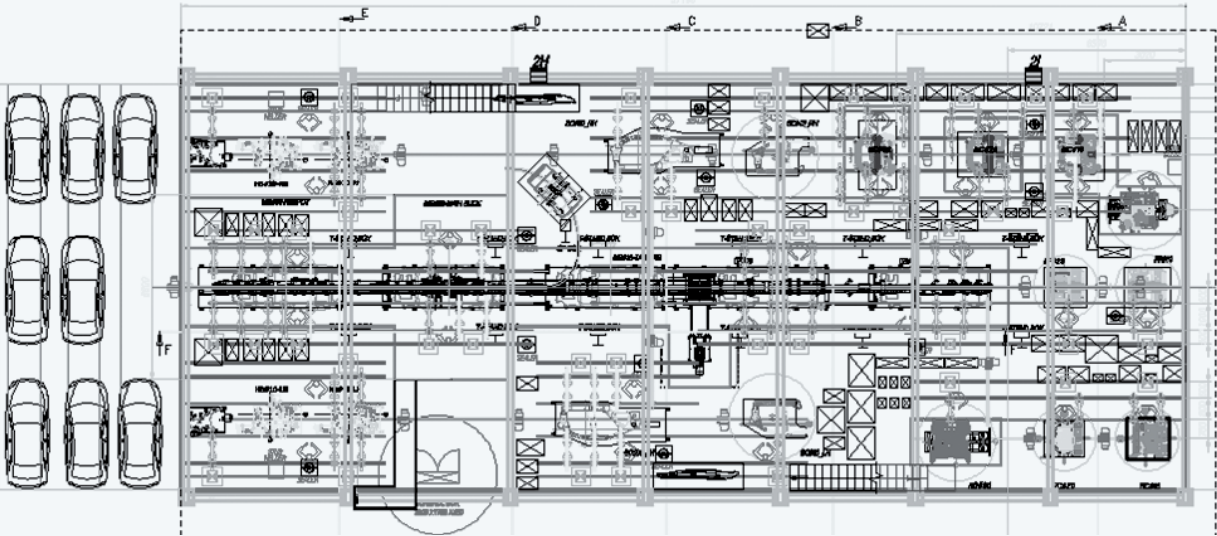
Project.
SGM 307

Client.
Colombia GM

Model.
Chevrolet COBALT

Volume.
8JPH

**SEMI MODULE /
BODY SHOP
WELDING LINE**





Project.
XMA / AN

Client.
USA KIA / USA HYUNDAI

Model.
SORENTO R / SANTAFE

Volume.
34JPH / 34JPH / 28JPH

SPOT ROBOT.
130

- ITEM.
- PNL ASS'Y RR FLR COMPL
 - PNL ASS'Y CTR FLR COMPL
 - PNL ASS'Y FENDER APRON & FRT
SIDE MBR COMPL
 - PNL ASS'Y COWL COMPL
 - REINF ASS'Y SIDE OUTER COMPL
 - BAR ASS'Y COWL CROSS





Project.
UMA / JFA

Client.
USA KIA

Model.
SORENTO / K5

Volume.
34JPH / 28JPH

SPOT ROBOT.
179 / 132

CO₂ ROBOT.
22 / 30

ITEM.

- PNL ASS'Y RR FLR COMPL
- PNL ASS'Y CTR FLR COMPL
- PNL ASS'Y FENDER APRON & FRT SIDE MBR COMPL
- PNL ASS'Y COWL COMPL
- REINF ASS'Y SIDE OUTER COMPL
- BAR ASS'Y COWL CROSS



Our Customers

We are fully committed to our responsibilities from process plan, design, manufacturing and trial out.
We put special effort for quality improvement, lowering the Cost, and time reduction.
We are proud to have trustworthy relationship with our customers.

Oversea



Domestic





WELDING ROBOT FA SYSTEM

SINDOK

COMPANY PROFILE

Smart & Intelligent Technology

Specialized line builder for
BIW Welding automation
SINDOK

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