

ILHA CO.,LTD.

COMPANY PROFILE

Ver. 2022

Korea

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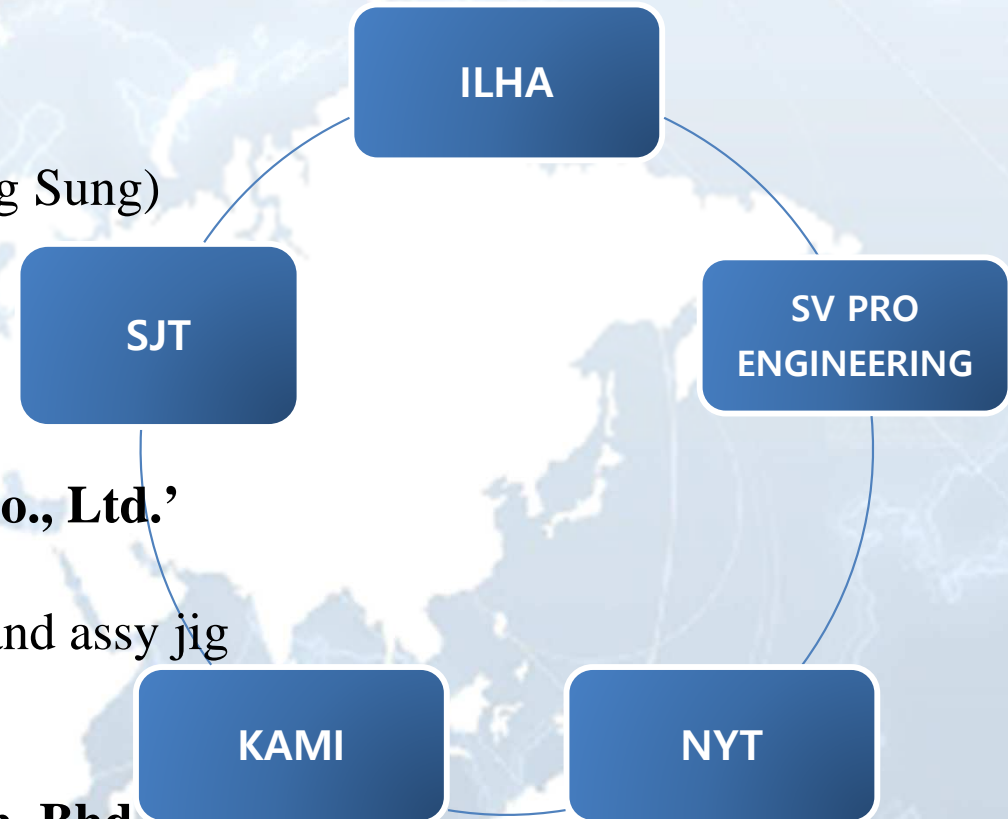
Malaysia

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Tel: +603 – 2372 0719

Homepage : www.ilhaeng.com

COMPANY HISTORY

- **1990 Established ILHA Engineering**
 - Automotive Engineering and marketing
- **2002 Established KAMI Co., ltd**
 - Plastic mold maker (MK Tech)
 - Special purpose Assembly line maker(Hong Sung)
- **2003 Partnership contract with NYT.**
 - Welding Jig and Assembly line
- **2013 Converted to a Corporation ‘ILHA Co., Ltd.’**
 - Holding company
 - Directly appointed by PERODUA as dies and assy jig maker.
- **2015 Established SV PRO Engineering Sdn. Bhd. in KL, Malaysia**
 - Die manufacturing , Die & Jig maintenance & Refurbishment Service
 - Supervisory service for Local Die Trial activity.

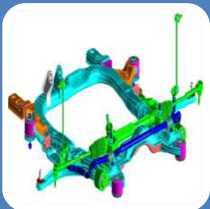


AUTOMOTIVE SCOPE OF WORK



Styling and prototyping

- Rendering, Cray model, 3D digitizing
- Chassis, interior, exterior, functional parts
- Proto type, mockup, and real mock up sample



Design 3D, 2D & CAE

- CATIA , Auto CAD, and others
- Module, Chassis, interior, exterior, Engine & transmission parts



Tools and dies

- Injection mold
- stamping die, checking fixture
- Welding Jigs & Robot system



Stamping line

- Stamping press, washing unit, feeder, BTO
- Stamping automation
- Best Delivery



Production line & Test equipment

- Automation/manual assembly line
- Processing Line
- Test consulting and equipment
- Quality control consulting and data save



Parts sourcing

- Global parts sourcing
- Simultaneous Engineering development
- Best Cost structure and quality

Best Solution always !

Prototyping

Soft Tool & Fixtures



Laser Center



Sub-assembly



Mock Up

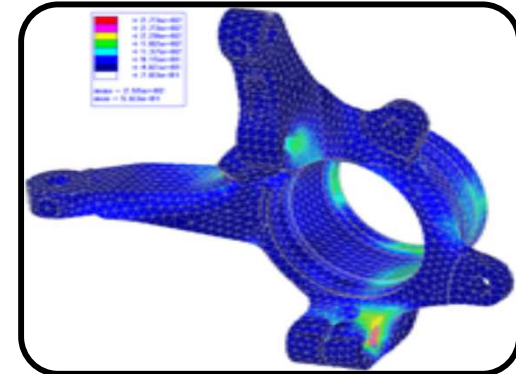
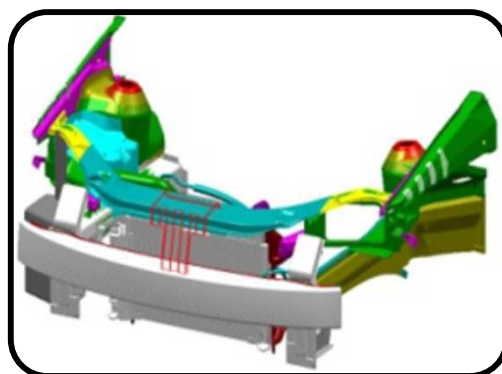
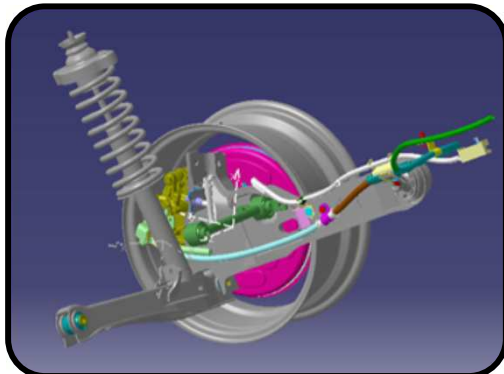
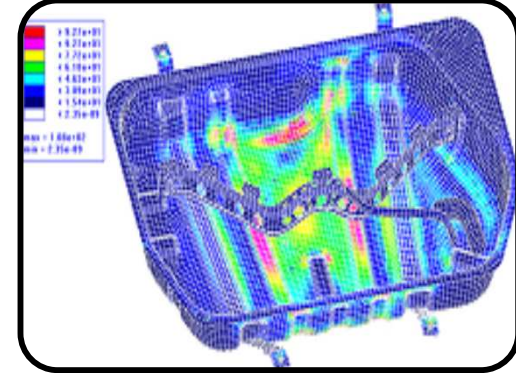
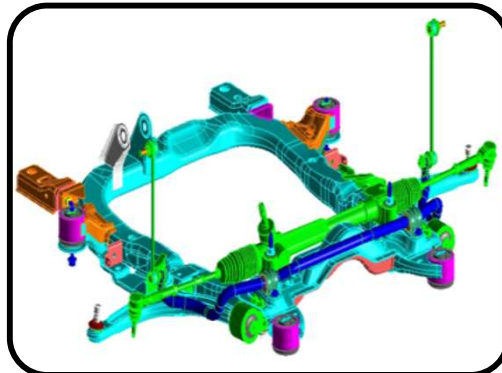
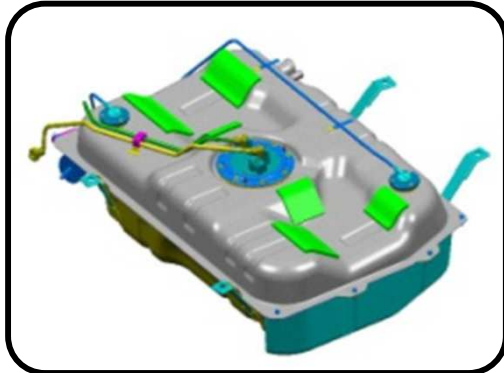
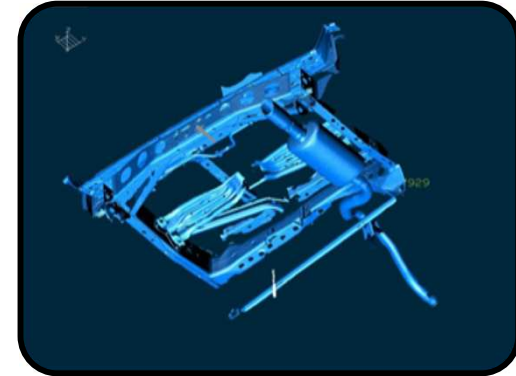
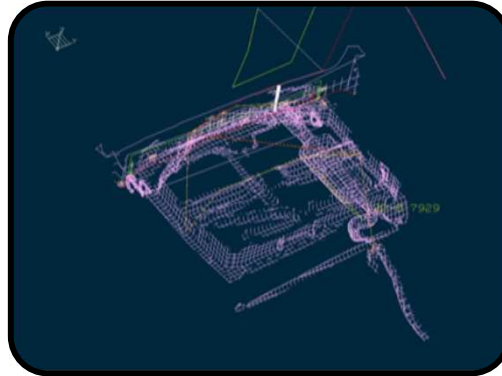


Stamping and Folded parts



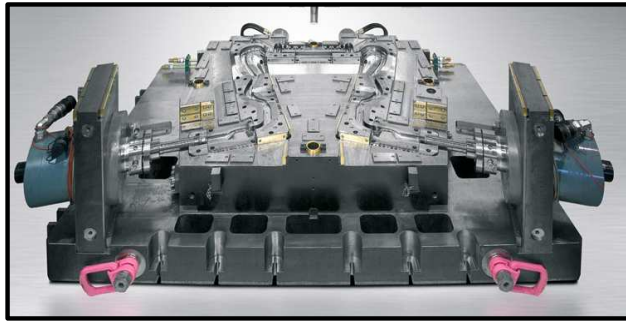
FRP



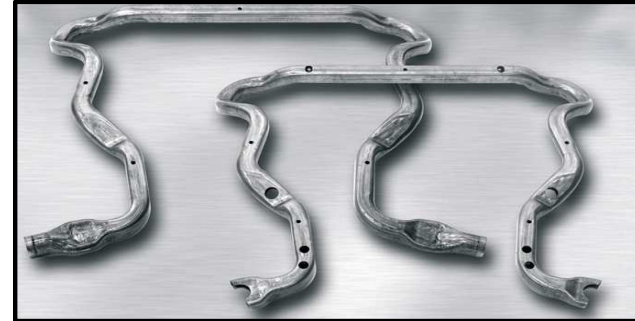


Tools & Dies

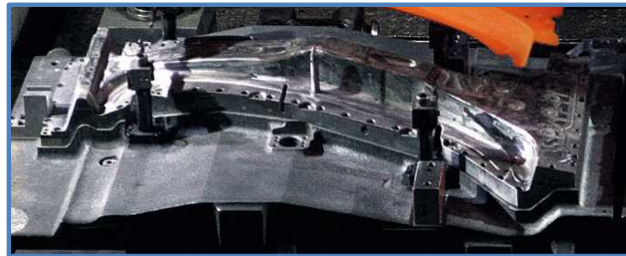
Stamping Dies



Hydro Forming Dies



Hydro Forming Parts



Hot Stamping Dies



Hot Stamping Parts



Stamping Dies



Stamping Parts

Tools & Dies

Stamping Dies



Progressive Dies



Progressive dies Parts



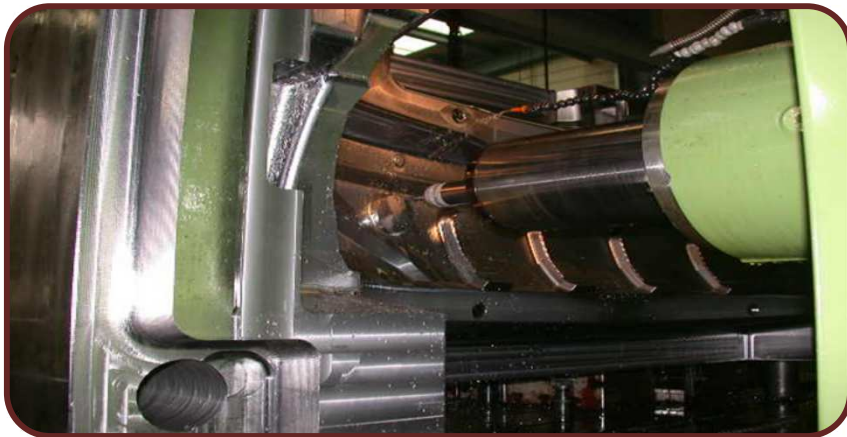
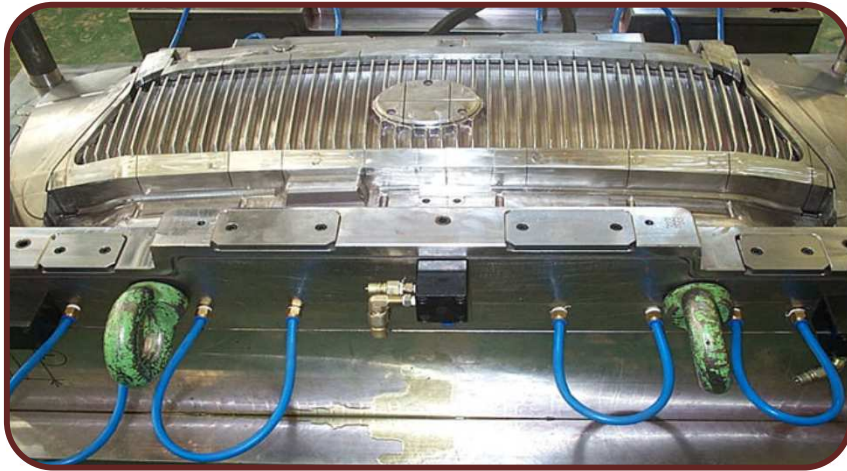
Hemming Dies



Hemming Parts

Tools & Dies

Plastic mold



Mold



Parts

Stamping Line

Tandem Line



Transfer Press



- Line up Proposal
 - Tandem press line
 - Transfer press line
 - Hyd. Press
 - Laser cutting M/C
 - Used machine
 - Die spotting press
 - Automation
- Process Engineering
- Stamping Standardization

Stamping Line

Automation



Material handling



- Automation Proposal
 - Blanking line
 - Material Transfer
 - In/Off line washing unit
 - Stacker - Destacker unit
 - BTO (Bundle turn over)
 - Centering unit
- Material handling System
 - Robot handling system
 - Auto pallet system
 - Auto-storage system
- Operating consulting

Production Line & Test Equipment



Press Line Hemming



Press Line Hemming with dies changer



Table Top Hemming



Robot Roller Hemming



Wheel House Clinch Hemming

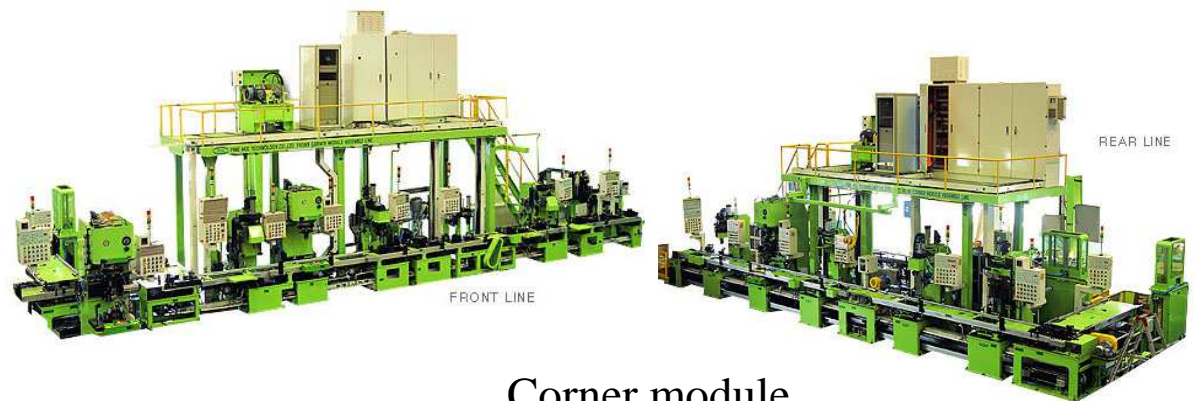
Production Line & Test Equipment

Welding Jig and robot system



Door welding and assembly line

Fuel Tank welding and assembly line



Corner module

Production Line & Test Equipment



Lamp robot coating system



Robot spray booth



Lamp Assembly Line



BMC / AL Vacuum metalizing line



Head lamp UV coating line

Parts Sourcing

- **Global Sourcing**

We have....

- Quality check know-how
- Process check know-how
- Test method know-how
- Delivery control
- Price negotiation

- **All kinds of parts**

- Engine parts
- Transmission parts
- Fuel management parts
- Electric functional parts
- Break system parts
- EMS, TMS, ABS parts
- Raw materials
- Forging/Casting/
Machining parts
- Plastic parts



AUTOMOTIVE DIVISION PROJECT REFERENCE
(Selected Projects only)*

Assembly line

GM KOREA-J300



GM KOREA-J300 Roof line



RSM-L47-Wheel House



Proton P2-31A (GSC) : Sub-frame welding & assembly line



Honda Malaysia : 2WF BIW



Honda Malaysia : 2XP BIW



Honda Malaysia : 2SK BIW



Honda Malaysia : 2HX BIW



Honda Malaysia : T00A BIW



Perodua : D20N Cross Member



Perodua : D38L BIW



Perodua : D38L Cross Member



Tools & Dies : Dies For Each Process & Parts



Tools & Dies : Dies For Each Process & Parts

| CLOSE DIE | | View of DIE (Photo) OPEN UPR DIE | | OPEN LWR DIE | | PROCESS PNL PHOTO | |
|---|--------------|--|----------|---|----------|---|---------------|
|  | |  | |  | |  | |
| OP. No. | 05 | OP. Name | BL | Die Size | 1205X790 | MATERIAL | BLANK SIZE |
| Die Size (mm) | 1205X790X690 | Die Size | 1205X790 | Die Size | 1205X790 | SPH440-00 1.6t | C392X456(2EA) |
| Die Weight (kg) | 1.550 (kg) | Die Weight | | Die Weight | | | |
|  | |  | |  | |  | |
| OP. No. | 10 | OP. Name | F0/BE | Die Size | 940X620 | | |
| Die Size (mm) | 940X620X420 | Die Size | 940X620 | Die Size | 940X620 | | |
| Die Weight (kg) | 565 (kg) | Die Weight | | Die Weight | | | |
|  | |  | |  | |  | |
| OP. No. | 20 | OP. Name | PI/C-PI | Die Size | 670X700 | | |
| Die Size (mm) | 670X700X420 | Die Size | 670X700 | Die Size | 670X700 | | |
| Die Weight (kg) | 460 (kg) | Die Weight | | Die Weight | | | |
|  | |  | |  | |  | |
| OP. No. | 30 | OP. Name | P1 | Die Size | 850X570 | | |
| Die Size (mm) | 850X570X420 | Die Size | 850X570 | Die Size | 850X570 | | |
| Die Weight (kg) | 465 (kg) | Die Weight | | Die Weight | | | |

Tools & Dies : Dies For Each Process & Parts

| CLOSE DIE | | View of DIE (Photo) OPEN UPR DIE | | OPEN LWR DIE | | PROCESS PNL PHOTO | |
|---|--------------|--|-------------|---|----------|---|------------|
|  | |  | |  | |  | |
| OP. No. | 10 | OP. Name | FO/BE | | | MATERIAL | BLANK SIZE |
| Die Size (mm) | 1260X930X800 | Die Size | 1260X930 | Die Size | 1260X930 | SCGA440-45 1.6t | the same |
| Die Weight (kg) | 1,940 (kg) | Die Weight | | Die Weight | | | |
|  | |  | |  | |  | |
| OP. No. | 20 | OP. Name | CUT/PI/C-PI | | | | |
| Die Size (mm) | 1220X960X800 | Die Size | 1220X960 | Die Size | 1220X960 | | |
| Die Weight (kg) | 1,900 (kg) | Die Weight | | Die Weight | | | |
|  | |  | |  | |  | |
| OP. No. | 30 | OP. Name | C-PI/PI/BE | | | | |
| Die Size (mm) | 1220X960X800 | Die Size | 1220X960 | Die Size | 1220X960 | | |
| Die Weight (kg) | 1,900 (kg) | Die Weight | | Die Weight | | | |

Tools & Dies : Various type of Material Spec

Super high tensile strength material (Hot Stamping)

(GM)
FRT SIDE DOOR IMPACT BEAM LH
Material : 950YMS-AL60G60G



- Thickness : 1.6mm
- 1400~1500 Mpa

(GM)
FRT SIDE DOOR IMPACT BEAM RH
Material : 950YMS-AL60G60G



- Thickness : 1.6mm
- 1400~1500 Mpa

(GM)
RR SIDE DOOR IMPACT BEAM LH
Material : 950YMS-AL60G60G



- Thickness : 1.3mm
- 1400~1500 Mpa

(GM)
RR SIDE DOOR IMPACT BEAM RH
Material : 950YMS-AL60G60G



- Thickness : 1.3mm
- 1400~1500 Mpa

Tools & Dies : Various type of Material Spec

Super high tensile strength material (Cold Stamping)

(POSCO)
 B PILLER, LH
 Material : **1180TRIP**



(POSCO)
 SIDE MBR FRT LWR, LH
 Material : **1180TRIP**



Tools & Dies : Various type of Material Spec

Super high tensile strength material (Cold Stamping)

(POSCO)
 B PILLER, LH
 Material : **1180TRIP**



- Thickness : 1.6mm
- 1180 Mpa

(POSCO)
 SIDE MBR FRT LWR, LH
 Material : **1180TRIP**



- Thickness : 1.6mm
- 1180 Mpa

(POSCO)
 A PILLAR LWR, LH
 Material : **1180TRIP**



- Thickness : 1.0mm
- 1180 Mpa

(HMC)
 MBR FRT DOR IMPACT, L/RH
 Material : **SPFC1180Y**



- Thickness : 1.4mm
- 1180 Mpa

High tensile strength material (Cold stamping)

(GM)
 PANEL-RKR INR, RH/LH
 Material : CR1180T/825Y-MP



- Thickness : 0.8mm
- 1180 Mpa

(GM)
 REINFORCEMENT-RKR INR PNL LH/RH
 Material : CR980T/700Y-MP



- Thickness : 2.0mm
- 980 Mpa

(HMC)
 REINF-FR SIDE RR UPR,LH/RH
 Material : SG AFC780 60/60



- Thickness : 1.8mm
- 780 Mpa

(GM)
 CTR PLR LH/RH
 Material : CR980T/700Y-MP



- Thickness : 1.0mm
- 780 Mpa

(GM)
 PANEL-FLR PNL TUN
 Material : CR780T/420Y-DP



- Thickness : 1.0mm
- 780 Mpa

(GM)
 REINF-RKR INR FRT L/RH
 Material : CRT980T/700Y-MP



- Thickness : 2.0mm
- 980 Mpa

High tensile strength material

(PROTON)
 CROSS MEMBER FRONT UPPER
 Material : DP590-P



- Thickness : 1.8mm
- 590 Mpa

(PROTON)
 SIDE MEMBER UPPER LH
 Material : DP590-P



- Thickness : 1.8mm
- 590 Mpa

(PROTON)
 SIDE MEMBER LOWER LH
 Material : DP590-P



- Thickness : 1.8mm
- 590 Mpa

(PROTON)
 C/MBR DASH LWR INR LH/RH
 Material : CR780T/420Y-DP



- Thickness : 1.6mm
- 780 Mpa

(PROTON)
 REINF REAR SEAT BELT LWR CTR
 Material : CR780T/420Y-DP



- Thickness : 1.2mm
- 780 Mpa

(PROTON)
 REINF DASH LWR INR LH/RH
 Material : DP590-P



- Thickness : 1.4mm
- 590 Mpa

Normal chassis part

(HMC)
HEAT PROTECTOR
Material : SACD 0.6 mm



(HMC)
HEAT PROTECTOR
Material : SACD 0.6 mm



(HMC)
GLASS SUPT
Material : SGACC 60/60 1.2 mm



(HMC)
RR CROSS MBR
Material : SAPH-38P 1.8 mm



(HMC)
FRT LWR ARM LWR/UPR
Material : SAPH-45P 2.6 mm



(HMC)
FRT FRAME
Material : SPH-270D 1.6 mm



Aluminum stamped parts insert injection

(HMC)
 GANISHER
 Material : AL8083 0.5 mm



(HMC)
 MOLDING
 Material : SUS304 0.5 mm



Generals

(PERODUA)
APRON,FR FENDER,RH/LH
Material : **SPC270E 0.8mm**



(PERODUA)
PLATE, FR SPRING SUPPORT,RH/LH
Material : **SHGA440 2.0mm**



(PERODUA)
PLATE,FR SIDE MBR,OTR RH
Material : **SPCC 1.2mm**



(PERODUA)
PLATE,FR SIDE MBR,OTR LH
Material : **SPCC 1.2mm**



(PERODUA)
MEMBER,FR SIDE,RR RH
Material : **SPH440 1.2mm**



(PERODUA)
MEMBER,FR SIDE,RR LH
Material : **SPH440 1.2mm**



Generals

(GM)
 H/PLR LH
 Material : DP290 1.0 mm



(GM)
 H/PLR RH
 Material : DP290 1.0 mm



(GM)
 WHEEL HOUSE
 Material : CR180B2 0.8 mm



(GM)
 CTR PLR L/RH
 Material : CR590/340Y-DP 1.4 mm



(GM)
 EXTN FLR
 Material : SPRC440 1.0 mm



Generals

(PERODUA)
 MBR,FR APRON TO COWL SIDE LWR FR LH
 Material : **SCGA270D 1.2mm**



(PERODUA)
 MBR,FR APRON TO COWL SIDE LWR FR RH
 Material : **SCGA270D 1.2mm**



(PROTON)
 PANEL FRT END CTR
 Material : **SPCC 1.0 mm**



(PROTON)
 REINF FRT END CTR
 Material : **SPCC 1.0mm**



(PROTON)
 PANEL REAR END LH
 Material : **SPRC45 0.85mm**



(PROTON)
 PANEL REAR END RH
 Material : **SPRC45 0.85mm**



Generals

(GM)
CTR PLR INR L/RH
Material : **ST-S-270B2 1.0 mm**



(GM)
INSUL HEAT FRT FLOOR
Material : **SACD 0.6 mm**



(GM)
INSUL HEAT RR FLOOR
Material : **SACD 0.6 mm**



(HMC)
FRT CROSS MBR UPR
Material : **SGARC440 60/60 1.8 mm**



(HMC)
FRT CROSS MBR LWR
Material : **SGARC440 60/60 1.8 mm**



Generals

(KIA)
 PORTER RR PNL
 Material : SPRC440 1.0 mm



(KIA)
 F/TANK UPR
 Material : SRNCEN 0.8 mm



(KIA)
 F/TANK LWR
 Material : SRNCEN 0.8 mm



(KIA)
 FUEL TANK LWR
 Material : SRNCEN 0.8 mm



(KIA)
 FUEL TANK UPR
 Material : SRNCEN 0.8 mm



(KIA)
 FRT PLR UPR
 Material : ST-S-CR3 1.0 mm



Turnkey Base Project – Parts & Assembly Line

Project Name : IAFM (Intake Air-Fuel Module)

Upper shell

1. Photograph of Tool



(Stational side)

2. Photograph of Product



(Cavity side)



(Core side)



(Core side)

Middle shell

1. Photograph of Tool



(Stational side)

2. Photograph of Product



(Cavity side)



(Movable side)



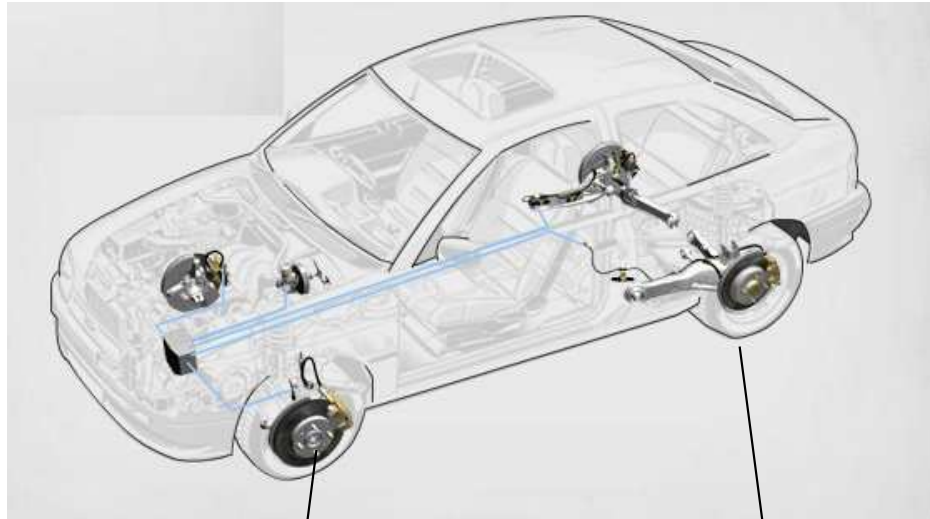
(Core side)



Turnkey Base Project – Parts & Assembly Line

Project Name : Corner Module

Developed Parts

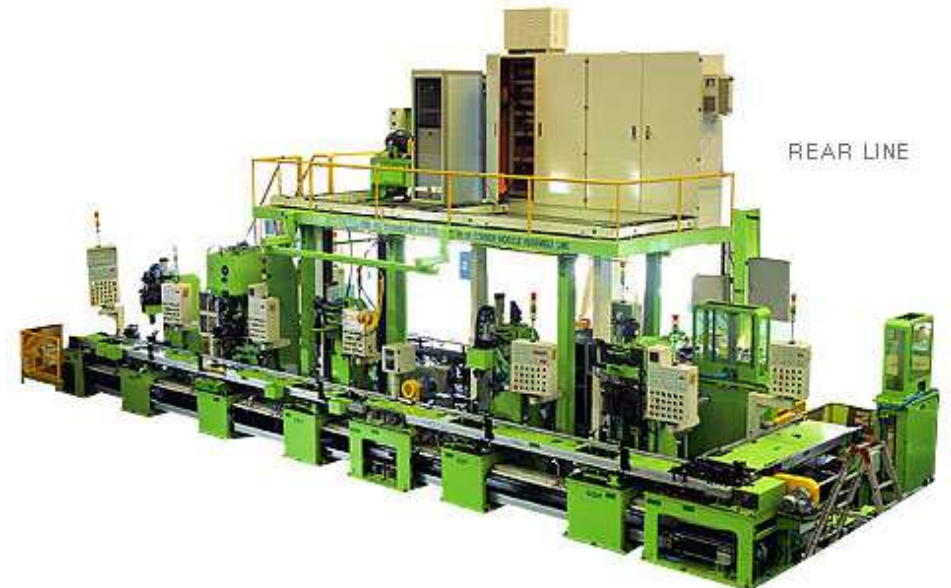
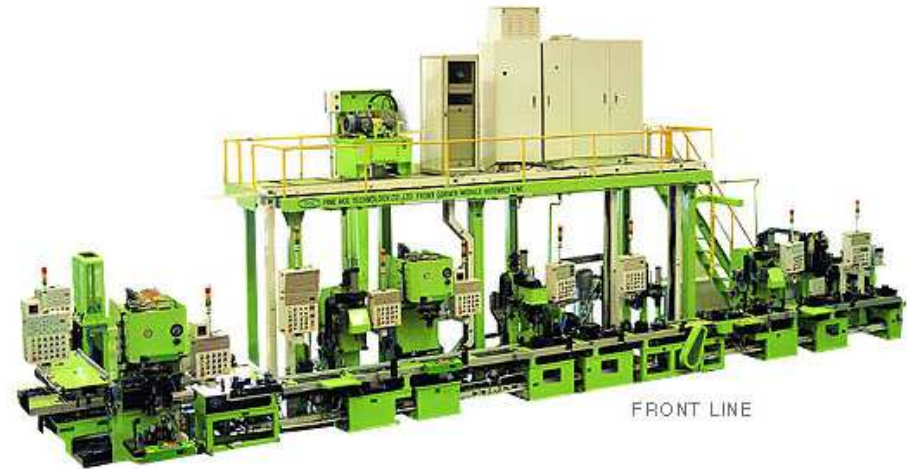


Front Module



Rear Module

Assembly Line



Cubic Jig and C/F, I/F

Cubic Jig



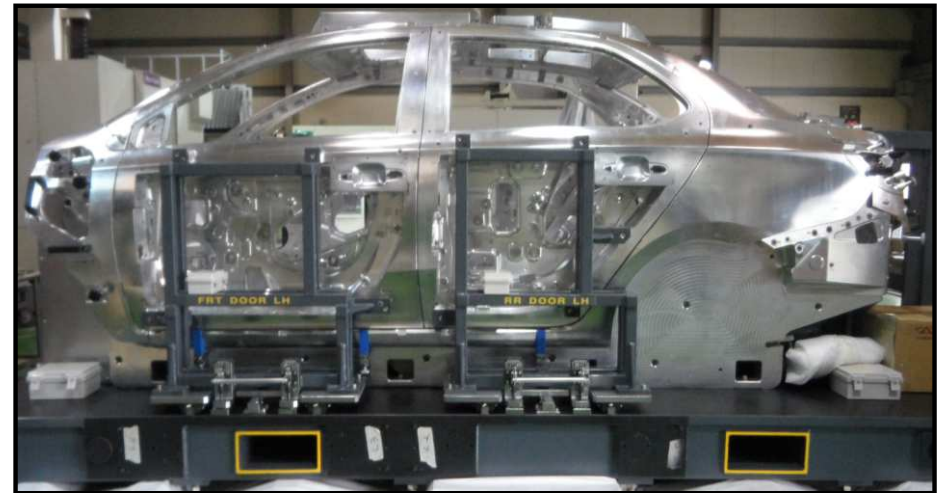
Exterior / Interior



Exterior / Interior



FRT VIEW (EXT)



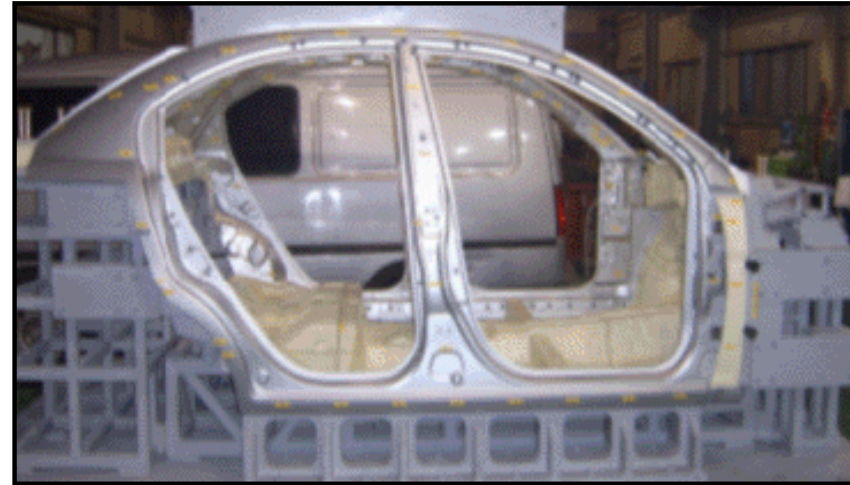
Exterior / Interior

Project reference : Cubic Jig and C/F, I/F

Cubic Jig



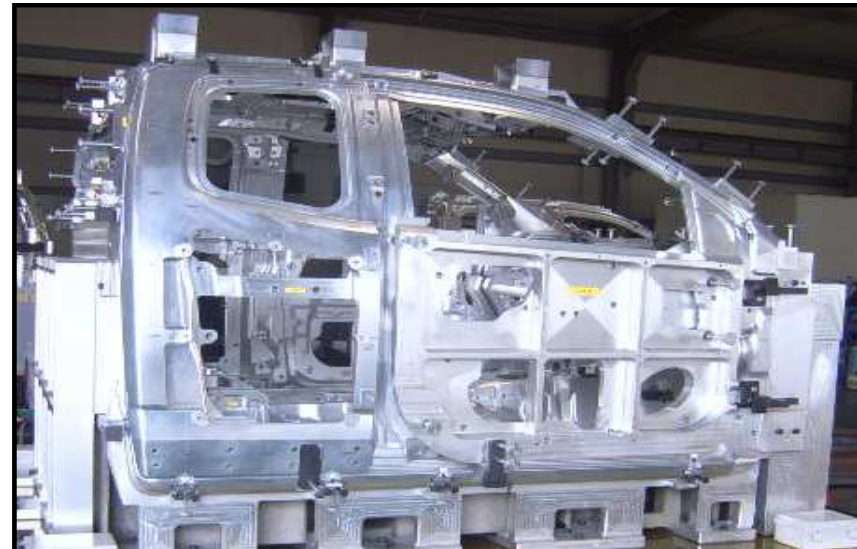
Exterior



Interior



LDT (1.5 BOX)

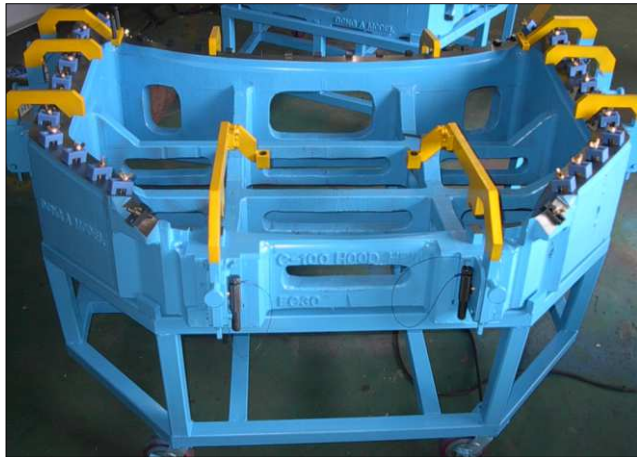


LDT K/C (1.5 BOX)

Project reference : Cubic Jig and C/F, I/F

CF / IF

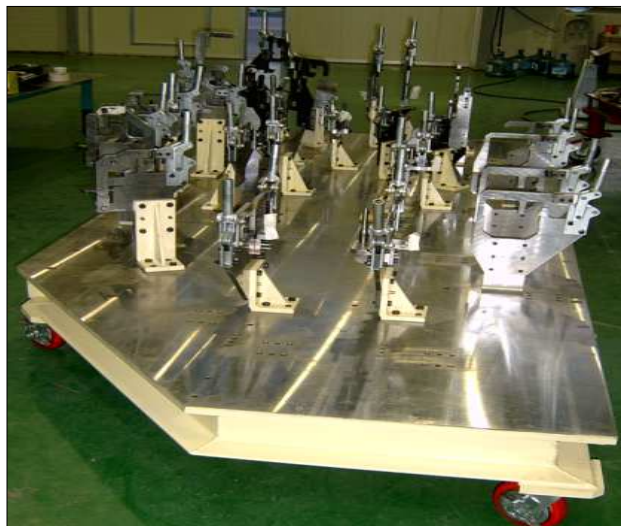
◆ PROTO TYPE HEMMING JIG



◆ ASSY CHECK FIXTURE (SSP)



◆ PROTO TYPE ASSY JIG



◆ PART CHECK FIXTURE



Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|---|-----------------------|--------|--------|
| 1 | GM KOREA | GMI M300 E/G ROOM JIG | TURN KEY (1Set) | Jan-09 | |
| 2 | KOKUSAI TEKKO | NBS-702-10-A T/T HEM'G PART | MANUFACTURING(1Line) | Feb-09 | NISSAN |
| 3 | DAE HEUNG PSC | M300 PAB HOUS'G ROBOT SPOT W/D FACIALITY | TURN KEY (1Line) | Feb-09 | GM |
| 4 | KOKUSAI TEKKO | NBS-714-12, 13 L53E RR DR #21,24 | TURN KEY (4Set) | Mar-09 | NISSAN |
| 5 | DTR Corp. | GMT 345H3G ENG MT W/JIG | TURN KEY (1Set) | Mar-09 | |
| 6 | KOKUSAI TEKKO | P53C, L53E HAND STAND | TURN KEY (2Set) | Apr-09 | NISSAN |
| 7 | KOKUSAI TEKKO | NBS-709-15 X61F B/SIDE #325 PART | DESIGN, MANUFACTURING | May-09 | NISSAN |
| 8 | KSM | L43 FLR FR RR SUB(S04) | TURN KEY (1Set) | May-09 | RSM |
| 9 | KOKUSAI TEKKO | X12C FR DR #11, 12, 27 | MANUFACTURING(3Set) | Jun-09 | NISSAN |
| 10 | KOKUSAI TEKKO | X12C FR #30 HAND | MANUFACTURING(2Set) | Jul-09 | NISSAN |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---|---------------------|--------|--------|
| 11 | GM KOREA | ROBOT CREATE FOR M200 RR FLR | TURN KEY (2Set) | Jul-09 | |
| 12 | GM KOREA | M300 ROOF RACK SLID'G EQUIPMENT | TURN KEY(1Line) | Jul-09 | |
| 13 | RENAULT SAMSUNG MOTOR | L38 B/S DRIVER CHECK FACIALITY | TURN KEY (2Set) | Jul-09 | |
| 14 | GM KOREA | C140 INSTALL LINE | TURN KEY (1Line) | Aug-09 | |
| 15 | KOKUSAI TEKKO | A/J H/LEDGE & MBR JIG | TURN KEY (4Set) | Aug-09 | NISSAN |
| 16 | KOKUSAI TEKKO | X12G RR DR INR ASS'Y | TURN KEY (4Set) | Aug-09 | NISSAN |
| 17 | KSM | L43 REINF MTG. EXH NEW PATCH SUB JIG | TURN KEY (1Set) | Aug-09 | RSM |
| 18 | KOKUSAI TEKKO | T/T HEM'G PART, C-FRAME | MANUFACTURING(2Set) | Sep-09 | NISSAN |
| 19 | RENAULT SAMSUNG MOTOR | VENTILATION SYSTEM | TURN KEY (1Line) | Sep-09 | |
| 20 | DAE HEUNG PSC | AM-CAN ASS'Y AUTOMATION W/JIG | TURN KEY (1Line) | Sep-09 | GM |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|-------------------------------|---------------------|--------|--------|
| 21 | KOKUSAI TEKKO | X12B H/L & MBR #35 | TURN KEY (4Set) | Oct-09 | NISSAN |
| 22 | KOKUSAI TEKKO | X12G H/L, DASH, PLR S/INR JIG | TURN KEY (4Set) | Oct-09 | NISSAN |
| 23 | KOKUSAI TEKKO | X12G RR DR #20, #30 HAND | MANUFACTURING(2Set) | Oct-09 | NISSAN |
| 24 | DTR Corp. | RR ENG MT'G CO2 JIG | TURN KEY (2Set) | Nov-09 | |
| 25 | GM KOREA | M300 MAIN LINE CAPA INCREASE | TURN KEY (1Line) | Nov-09 | |
| 26 | DAESUNG Corp. | RB-CAR CTR INR S/INR | TURN KEY (1Line) | Nov-09 | HMC |
| 27 | DTR Corp. | ENG MTG FRT CO2 JIG | TURN KEY (3Set) | Dec-09 | |
| 28 | KSM | REINF INT FIX TRAIN ASS'Y L/R | TURN KEY (4Set) | Dec-09 | RSM |
| 29 | DAE HEUNG PSC | EYE SUB ASS'Y W/JIG | TURN KEY (3Set) | Dec-09 | GM |
| 30 | GM KOREA | T300 HOOD AUTO LOADER | TURN KEY (1Line) | Dec-09 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|--------------------------------|-----------------------|--------|--------|
| 1 | GM KOREA | GM TH J300 NB P/J | MANUFACTURING(1Set) | Jan-10 | |
| 2 | RENAULT SAMSUNG MOTOR | RSM L47 TURN DEVICE | MANUFACTURING(1Set) | Jan-10 | |
| 3 | RENAULT SAMSUNG MOTOR | L47 UPPER BODY LINE | TURN KEY (1Line) | Jan-10 | |
| 4 | KOKUSAI TEKKO | RSM L47 PROJECT | TURN KEY (1Line) | Feb-10 | NISSAN |
| 5 | DAESUNG Corp. | FS-CAR HOOD | TURN KEY (1Line) | Mar-10 | HMC |
| 6 | GM KOREA | M300 MOTOR COMP JPH INCREASE | TURN KEY (1Line) | Mar-10 | |
| 7 | ERAЕ CS | M300 GM0UZ P/J WELDING FIXTURE | TURN KEY (1Line) | Mar-10 | GM |
| 8 | RENAULT SAMSUNG MOTOR | H45 FR FDR ASS'Y | MANUFACTURING(1Set) | Apr-10 | |
| 9 | DAESUNG Corp. | VF-CAR CTR INR | TURN KEY (1Line) | May-10 | HMC |
| 10 | KOKUSAI TEKKO | LB PROJECT | MANUFACTURING (1Line) | Jul-10 | NISSAN |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---------------------------------|----------------------|--------|--------|
| 11 | SEWON PRECISION INDUSTRY | UB-CAR BAR ASSY COWL CROSS | TURN KEY (1Line) | Aug-10 | HMC |
| 12 | RENAULT SAMSUNG MOTOR | L47 B/S MAIN & RESPOT LINE BPRS | MANUFACTURING(1Line) | Sep-10 | |
| 13 | KUNHWA | LEVER 3 BUCKET JIG | MANUFACTURING(1Line) | Oct-10 | |
| 14 | SHIBAOKA | ST-8Y22 MBR FR S/INR UNIT | MANUFACTURING(1Line) | Oct-10 | TOYOTA |
| 15 | RENAULT SAMSUNG MOTOR | H45 PRECURE FACIALITY | MANUFACTURING(1Line) | Oct-10 | |
| 16 | KOKUSAI TEKKO | NBS-816-10 #112 FIX B/S P42J | MANUFACTURING(1Line) | Nov-10 | NISSAN |
| 17 | KOKUSAI TEKKO | NBS-815-14 #21 SSW KWH/L MBR | MANUFACTURING(1Line) | Nov-10 | NISSAN |
| 18 | SHIBAOKA | 8Y82, 8Y57 | MANUFACTURING(1Line) | Dec-10 | TOYOTA |
| 19 | DAESUNG Corp. | GD-S/OTR ASSY LINE | TURN KEY (1Line) | Dec-10 | HMC |
| 20 | GM KOREA | GSUV INSTALL GAGE BIW TL | TURN KEY (1Line) | Dec-10 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---------------------------------------|--------------------------------|--------|--------------|
| 1 | KUNHWA | MILLER BUCKET | MANUFACTURING & DESIGN (1Set) | Jan-11 | |
| 2 | SEWON PRECISION INDUSTRY | GD COWL CROSS | TURN KEY (1Line) | Jan-11 | HMC |
| 3 | KOKUSAI TEKKO | HONDA P/J FRT RR DR LINE | MANUFACTURING(4Line) | Jan-11 | HONDA |
| 4 | PROTON & PEPS JV | P321A BIW P/J | TURN KEY (1Line) | Feb-11 | Malaysia P/J |
| 5 | KOKUSAI TEKKO | HONDA P/J RR DR SET JIG | MANUFACTURING(4Line) | Mar-11 | HONDA |
| 6 | DTR Corp. | X81C FRT DR , YD W/JIG | MANUFACTURING & DESIGN (1Line) | Mar-11 | |
| 7 | RENAULT SAMSUNG MOTOR | L47 BODY SIDE B/MAIN RESPOT LINE BPRS | MANUFACTURING (1Line) | Mar-11 | |
| 8 | GM KOREA | M300 U/BODY LINE | TURN KEY (1Line) | Apr-11 | |
| 9 | ERAE CS | M300 BAR ASM-FRT BPR IMP W/FIXTURE | MANUFACTURING & DESIGN (1Line) | May-11 | GM |
| 10 | DAESUNG Corp. | DM-CAR(FRT S/MBR & F/APRON) | TURN KEY (2Line) | Jul-11 | HMC |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---|-----------------------------------|--------|-----------------|
| 11 | RENAULT SAMSUNG MOTOR | L38, L47 PH2 U/BODY FACIALITY | TURN KEY (2Line) | Jul-11 | |
| 12 | RENAULT SAMSUNG MOTOR | L38 EV U/BODY FACIALITY | TURN KEY (1Line) | Aug-11 | |
| 13 | MIYAZU | P321A CTR PILLAR PATCH W/LINE | TURN KEY (1Line) | Oct-11 | Malaysia P/J |
| 14 | KOKUSAI TEKKO | FRT DR INR R/L | MANUFACTURING & DESIGN (1Line) | Oct-11 | NISSAN |
| 15 | GM KOREA | M300 U/BODY LINE JPH INCREASE | TURN KEY (1Line) | Nov-11 | |
| 16 | SHIBAOKA | YT-80H8 #10 STN | MANUFACTURING(1Line) | Nov-11 | TOYOTA |
| 17 | KUNHWA | PL3005D P/VOT BOOM | MANUFACTURING(1Line) | Nov-11 | |
| 18 | KSM | L38 EV CTR FLR ASSY | TURN KEY (1Line) | Dec-11 | RSM |
| 19 | KSM | X81C REINF ASSY CTR SIDE | TURN KEY (1Line) | Dec-11 | RSM |
| 20 | ERAЕ CS | M300 MCE BAR ASM-FRT BPR IMP WELDING FIXTURE | MANUFACTURING(1Line) | Dec-11 | GM |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|--------------------------------|-----------------------------------|--------|--------|
| 1 | KOKUSAI TEKKO | HONDA RR DR LINE | MANUFACTURING(4Line) | Jan-12 | HONDA |
| 2 | ERAE CS | BAR ASM FRT BPR IMP FIX | TURN KEY (1Line) | Jan-12 | GM |
| 3 | SINKOU | YE9L-FR SUS SUB PART | MANUFACTURING(1Set) | Feb-12 | TOYOTA |
| 4 | SINKOU | BEAM COMP RR AXLE | MANUFACTURING(2Set) | Feb-12 | TOYOTA |
| 5 | KOKUSAI TEKKO | A/J W/H & RR PLR INR PTOTO JIG | MANUFACTURING(1Set) | Feb-12 | NISSAN |
| 6 | DAE HEUNG PSC | YD CAN ASS'Y W/JIG | TURN KEY (1Line) | Mar-12 | GM |
| 7 | KOKUSAI TEKKO | L53H REINF B/S OTR | MANUFACTURING & DESIGN (1Line) | Mar-12 | NISSAN |
| 8 | KSM | X81C MBR ASS'Y SIDE CTR | MANUFACTURING & DESIGN (1Set) | Mar-12 | RSM |
| 9 | KOKUSAI TEKKO | NBS-978-10 L53H DASH UPR #2 | MANUFACTURING & DESIGN (1Set) | Mar-12 | NISSAN |
| 10 | KOKUSAI TEKKO | NBS-975-14 J/R ROOF ASS'Y PART | MANUFACTURING & DESIGN (1Set) | Mar-12 | NISSAN |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|----------------------|---------------------------------|-------------------------------|--------|--------|
| 11 | KOKUSAI TEKKO | HDS-500-04 SIDE INR | MANUFACTURING & DESIGN (2Set) | Apr-12 | HONDA |
| 12 | KOKUSAI TEKKO | NBS-982-10,11 NC12F B/S INR #10 | MANUFACTURING & DESIGN (2Set) | May-12 | NISSAN |
| 13 | KOKUSAI TEKKO | TURN TABLE ASS'Y #20 SSW | MANUFACTURING(1Set) | May-12 | NISSAN |
| 14 | SHINDAELIM PRECISION | M300 T/M S/COVER W/JIG | TURN KEY (1Line) | May-12 | |
| 15 | KOKUSAI TEKKO | P32R P42JK H/LEDGE MBR | MANUFACTURING & DESIGN (2Set) | Jun-12 | NISSAN |
| 16 | KOKUSAI TEKKO | L42 LH REINF FR PLR LWR | MANUFACTURING & DESIGN (2Set) | Jun-12 | NISSAN |
| 17 | KOKUSAI TEKKO | FRT DR INR | MANUFACTURING & DESIGN (2Set) | Jun-12 | HONDA |
| 18 | KOKUSAI TEKKO | NBG-025-17B ROLL HEM TURN BASE | MANUFACTURING(1Set) | Jul-12 | NISSAN |
| 19 | KOKUSAI TEKKO | NBG-025-13 #2 FIX | MANUFACTURING(1Set) | Aug-12 | NISSAN |
| 20 | KOKUSAI TEKKO | NBG-025-13 ROBOT ASS'Y | MANUFACTURING(1Line) | Aug-12 | NISSAN |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---|-----------------------------------|--------|--------|
| 21 | DAESUNG Corp. | MBR ASS'Y FR SD R/L TQ | TURN KEY (1Line) | Aug-12 | HMC |
| 22 | SINKOU | PNL-R END ASS'Y PART | MANUFACTURING(1Set) | Sep-12 | TOYOTA |
| 23 | KOKUSAI TEKKO | RR DR SET JIG | MANUFACTURING & DESIGN (4Set) | Sep-12 | HONDA |
| 24 | KOKUSAI TEKKO | NBS-507-10, 11, 12(P32R-W) JIG (FR S/MBR, DASH LWR, W/H) | MANUFACTURING & DESIGN (1Line) | Oct-12 | NISSAN |
| 25 | RENAULT SAMSUNG MOTOR | L38 #111 B/S OTR UNIT MODIFICATION | TURN KEY (1Line) | Oct-12 | |
| 26 | KOKUSAI TEKKO | NBG-038-10 #10 ROTARY TABLE | MANUFACTURING(1Set) | Nov-12 | NISSAN |
| 27 | GM KOREA | U/BODY ASS'Y WELDING CHECK JIG | TURN KEY (1Set) | Nov-12 | |
| 28 | KOKUSAI TEKKO | FRT DR SET JIG | MANUFACTURING & DESIGN (4Set) | Dec-12 | HONDA |
| 29 | RENAULT SAMSUNG MOTOR | L38 EV TRUNK LID INSTALL | MANUFACTURING & DESIGN (1Set) | Dec-12 | |
| 30 | DTR Corp. | ADAPTER BRK'T | MANUFACTURING(1Set) | Dec-12 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|--|----------------------------------|--------|-----------------|
| 1 | RENAULT SAMSUNG MOTOR | H45,L38,L43 CHINA LICENCE PLATE LINE MODIFICATION | TURN KEY (1Set) | Jan-13 | |
| 2 | GM KOREA | N2xx DR & DR HINGE INSTALL GAUGE | TURN KEY (1Line) | Jan-13 | |
| 3 | PEPS-JV | P230A SUB FRAME W/LINE | TURN KEY (1Line) | Feb-13 | Malaysia P/J |
| 4 | RENAULT SAMSUNG MOTOR | P32R UPPERBODY WELDING LINE | TURN KEY (1Line) | Feb-13 | |
| 5 | KOKUSAI TEKKO | NBG-053-10 P32R REINF B/S OTR | MANUFACTURING & DESIGN (2Set) | Feb-13 | NISSAN |
| 6 | KOKUSAI TEKKO | HDS-291-17 HONDA YOR11 SET JIG | MANUFACTURING (1Set) | Feb-13 | HONDA |
| 7 | SINKOU | D33N PART | MANUFACTURING (1Set) | Feb-13 | TOYOTA |
| 8 | SINKOU | OM 6H BEAM COMP | MANUFACTURING (1Set) | Mar-13 | TOYOTA |
| 9 | KOKUSAI TEKKO | HDS-290-10 HONDA FRT DR INR | MANUFACTURING (1Set) | Mar-13 | HONDA |
| 10 | KSM | P32R FLOOR ASS'Y RR | TURN KEY (1Line) | Mar-13 | RSM |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|----------------------------------|----------------------------------|--------|--------|
| 11 | KOKUSAI TEKKO | HDS-291-13 HONDA RR DR INR | MANUFACTURING(1Set) | Mar-13 | HONDA |
| 12 | KOKUSAI TEKKO | NBG-112-10 FR, RR DR INR PLT | MANUFACTURING(1Set) | Mar-13 | NISSAN |
| 13 | DAESUNG Corp. | TQ FRT S/MBR ASS'Y 4WD | MANUFACTURING(1Set) | Mar-13 | HMC |
| 14 | RENAULT SAMSUNG MOTOR | PUNCHING MACHINE | TURN KEY (1Set) | Apr-13 | |
| 15 | KOKUSAI TEKKO | NBJ-518-10B, A L12F PLT PART | MANUFACTURING(1Set) | Apr-13 | NISSAN |
| 16 | KOKUSAI TEKKO | WL42L COWL TOP DASH UPR | MANUFACTURING(1Set) | Apr-13 | NISSAN |
| 17 | KOKUSAI TEKKO | B12L B/S INR | MANUFACTURING & DESIGN (1Set) | Apr-13 | NISSAN |
| 18 | SINKOU | KE4R PART | MANUFACTURING(1Set) | May-13 | TOYOTA |
| 19 | KOKUSAI TEKKO | NBG-110-10 J/R MBR S/RR | MANUFACTURING & DESIGN (2Set) | May-13 | NISSAN |
| 20 | KOKUSAI TEKKO | NBG-109-10 (H/LEDGE) #10 FIX L/R | MANUFACTURING & DESIGN (2Set) | May-13 | NISSAN |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|------------------|----------------------------|------------------|--------|-----------------|
| 21 | KSM | LFD SUBFRAME CTR LINE | TURN KEY (1Set) | Jul-14 | RSM |
| 22 | KOKUSAI TEKKO | NBJ-563-10-01 B12L ROOF | MANUFACTURING | Aug-14 | NISSAN |
| 23 | SINKOU | KY-H814 UPR LWR SJIM W/JIG | TURN KEY (4Set) | Sep-14 | TOYOTA |
| 24 | HANJUNG NCS | OUTLET DM CO2 JIG | TURN KEY (1Set) | Sep-14 | |
| 25 | DAESUNG Corp. | TB HOOD T/GATE A/S LINE | TURN KEY (1Line) | Oct-14 | HMC |
| 26 | PEPS-JV | HONDA 2CT P/J | TURN KEY (1Set) | Oct-14 | Malaysia P/J |
| 27 | HANJUNG NCS | NU SULEV 2WD AD OUTLET | TURN KEY (1Set) | Oct-14 | |
| 28 | GM KOREA | T250 FRT & RR FLOOR | MANUFACTURING | Nov-14 | |
| 29 | DONGHEE (RUSSIA) | HCr X-CORSS MBR | TURN KEY (1Line) | Nov-14 | HMC |
| 30 | DAESUNG Corp. | AE-REINF S/OTR LINE | TURN KEY (1Line) | MAR-15 | HMC |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|---------------------------|------------------|--------|--------|
| 1 | SINKOU | 8B4R A12 & A13 STN | MANUFACTURING | MAR-15 | TOYOTA |
| 2 | DONG-A TIRE | FCA 13DS CR27450A CO2 JIG | TURN KEY | MAR-15 | GM |
| 3 | HANJUNG NCS | TAI HI ASS'Y CO2 JIG | TURN KEY (1Set) | MAR-15 | HMC |
| 4 | HANJUNG NCS | EU6 INLET CONE CO2 JIG | TURN KEY (2Set) | MAR-15 | HMC |
| 5 | HANJUNG NCS | UPR CROSS MBR CO2 JIG | TURN KEY (2Set) | MAR-15 | HMC |
| 6 | PEPS-JV | 2SV P/J | TURN KEY | MAR-15 | HONDA |
| 7 | KOKUSAI TEKKO | MA02F HOOD SET'G JIG | MANUFACTURING | JUN-15 | NISSAN |
| 8 | HANJUNG NCS | KIA WCC CONE CO2 JIG | TURN KEY (4Set) | JUN-15 | KIA |
| 9 | DONGHEE | PDe X-CROSS MBR | TURN KEY (1Line) | JUN-15 | HMC |
| 10 | SINKOU | KE6L & KE6P FR DOOR | MANUFACTURING | AUG-15 | TOYOTA |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------------|-----------------------------|------------------|--------|--------|
| 11 | KOKUSAI TEKKO | D/COMP RR PNL; | MANUFACTURING | AUG-15 | NISSAN |
| 12 | DAESUNG Corp. | AD T/LID ASS'Y | TURN KEY (1Line) | SEP-15 | HMC |
| 13 | KOKUSAI TEKKO | OP380 HYPER CONVEYOR | TURN KEY | OCT-15 | NISSAN |
| 14 | HANJUNG NCS | D2LCK-PEDAL CO2 WELDING JIG | TURN KEY | NOV-15 | GMK |
| 15 | SHINDAELIM PRCISION | D2KCZ BRKT ASM-RR CO2 JIG | TURN KEY | DEC-15 | GMK |
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Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---------------------------------|------------------|--------|--------|
| 1 | PEPS-JV | 2SK P/J | TURN KEY | JAN-16 | HONDA |
| 2 | DAE HEUNG PSC | PD DKAB HOUSING ASS'Y | TURN KEY (1Line) | FEB-16 | GMK |
| 3 | RENAULT SAMSUNG MOTOR | BPRS | TURN KEY | MAR-16 | |
| 4 | PEPS-JV | HONDA 2HX BIW | TURN KEY | APR-16 | HONDA |
| 5 | RENAULT SAMSUNG MOTOR | HZG B/SHOP WTOB | TURN KEY | MAY-16 | |
| 6 | KOKUSAI TEKKO | NBG-302-11-05 B12P #211 BSO FIX | MANUFACTURING | JUL-16 | NISSAN |
| 7 | RENAULT SAMSUNG MOTOR | Body WtoB (bs inr) | TURN KEY | AUG-16 | |
| 8 | KOKUSAI TEKKO | NBG-325-10-01 P42M #122 B/S OTR | MANUFACTURING | SEP-16 | NISSAN |
| 9 | PEPS-JV | PERODUA D20N FRT CROSS MBR | TURN KEY | OCT-16 | HONDA |
| 10 | GM KOREA | Maintenance Desk & Robot Deck | TURN KEY | DEC-16 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---------------------------------|------------------|--------|---------|
| 1 | KOKUSAI TEKKO | NBG-358-10-01 TURN DEVICE | MANUFACTURING | JAN-17 | HONDA |
| 2 | DAESUNG Corp. | TM S/MBR ASS'Y | TURN KEY (1Line) | FEB-17 | HYUNDAI |
| 3 | DTR Corp. | T1XX FRAME SIDE BRKT | TURN KEY | MAR-17 | |
| 4 | KOKUSAI TEKKO | SAR 60B, BSO, BSM JIG | MANUFACTURING | APR-17 | MISSAN |
| 5 | RENAULT SAMSUNG MOTOR | LFD W/H INR STUD GUN | TURN KEY | MAY-17 | |
| 6 | KOKUSAI TEKKO | NBG-302-11-05 B12P #211 BSO FIX | MANUFACTURING | JUL-17 | NISSAN |
| 7 | YAMASHITA | RR OG | TURN KEY | AUG-17 | HONDA |
| 8 | PEPS-JV | D38L P/J W/JIG | TURN KEY | SEP-17 | HONDA |
| 9 | RENAULT SAMSUNG MOTOR | LJL B/MAIN LINE | TURN KEY | OCT-17 | |
| 10 | KSM | Egt P/J W/JIG | TURN KEY | DEC-17 | RSM |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|--------------------------|---|------------------|--------|--------|
| 1 | KSM | FLR ASSY-FRT LINE, MBR ASSY-RR CROSS, CTR LINE | TURN KEY | JAN-18 | RSM |
| 2 | SAM KYUNG | LJL JIG, ROBOT, BOOTH | TURN KEY (1Line) | FEB-18 | GMK |
| 3 | SHINDAELIM PRCISION | LJL W/JIG | TURN KEY | MAR-18 | |
| 4 | KOKUSAI TEKKO | NBG-434-10-06 B/S OTR #212 | TURN KEY | APR-18 | NISSAN |
| 5 | RENAULT SAMSUNG MOTOR | LJL BRACE SEALING LINE MODIFICATION WORK | TURN KEY | MAY-18 | |
| 6 | KOKUSAI TEKKO | NBG-302-11-05 B12P #211 BSO FIX | MANUFACTURING | JUL-18 | NISSAN |
| 7 | RENAULT SAMSUNG MOTOR | DOOR HINGE AUTO FASTENING MACHINARY | TURN KEY | AUG-18 | |
| 8 | YAMASHITA | B/S INR | MANUFACTURING | SEP-18 | HONDA |
| 9 | RENAULT SAMSUNG MOTOR | Monitoring system | TURN KEY | OCT-18 | |
| 10 | YAMASHITA | PY1B A/J B/S OTR JIG | TURN KEY | DEC-18 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|--|------------------|--------|---------|
| 1 | KOKUSAI TEKKO | P33A B/S OTR #112 FIX | TURN KEY | JAN-19 | NISSAN |
| 2 | SAM KYUNG | JL 2.0 PHEV HOUSING L/R WELDING JIG ROBOT | TURN KEY (1Line) | FEB-19 | GMK |
| 3 | KOKUSAI TEKKO | P42M B/S #122, #222 FIX | TURN KEY | MAR-19 | NISSAN |
| 4 | YAMASHITA | A/J DASH COMP | TURN KEY | APR-19 | HONDA |
| 5 | PEPS-JV | T00A FRAME COMP | TURN KEY | MAY-19 | HONDA |
| 6 | SAM KYUNG | RESONATOR JIG & SPOT ROBOT | MANUFACTURING | JUL-19 | GMK |
| 7 | YAMASHITA | P42R RR MBR CROSS SUB | TURN KEY | AUG-19 | |
| 8 | GM KOREA | B175 CAPACITY INCREASE | MANUFACTURING | SEP-19 | |
| 9 | DAESUNG Corp. | NX4 P/J | TURN KEY | OCT-19 | HYUNDAI |
| 10 | DTR Corp. | T1XX FRAME SIDE BRKT L/R | TURN KEY | DEC-19 | |

Project reference : Assembly line

| NO | CUSTOMER | P/J NAME | CLASSIFICATOIN | DATE | REMARK |
|----|---------------|-----------------------|------------------|--------|--------|
| 11 | PEPS-JV | D92A | TURN KEY | AUG-20 | Toyota |
| 12 | DAESUNG Corp. | AD T/LID ASS'Y | TURN KEY (1Line) | SEP-20 | HMC |
| 13 | PEPS-JV | OP380 HYPER CONVEYOR | TURN KEY | OCT-20 | NISSAN |
| 14 | HANJUNG NCS | PEDAL CO2 WELDING JIG | TURN KEY | NOV-20 | GMK |
| 15 | PEPS-JV | D27A | TURN KEY | DEC-20 | GMK |
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BEST SOLUTION ALWAYS

**In terms of
COST, QUALITY, TIME**

THANK YOU!