

# ESON Precision Engineering Co., Ltd







# Brief Status

# ESON



- **Chairman : Chia Hsiang, Tsai**
- **CEO : Chia Hsiang, Tsai**
- **Annul revenue: : USD 460 Million**
- **Employee Amount : 6,000**

- **Main Product Range :**

- Mechanical parts production for consumer products.
- TV mechanical parts production and assembly.
- Server mechanical parts production and assembly.
- Automotive parts production.





# Milestone

# ESON

## Expansion :

- . 2012 Set Up factory in Mexico
- . 2013 Set Up New factory in Malaysia
- . 2013 Nov. Listed in TW stock market
- . 2015 New Business for automotive parts
- . 2021 Set up factory in Vietnam

## Development :

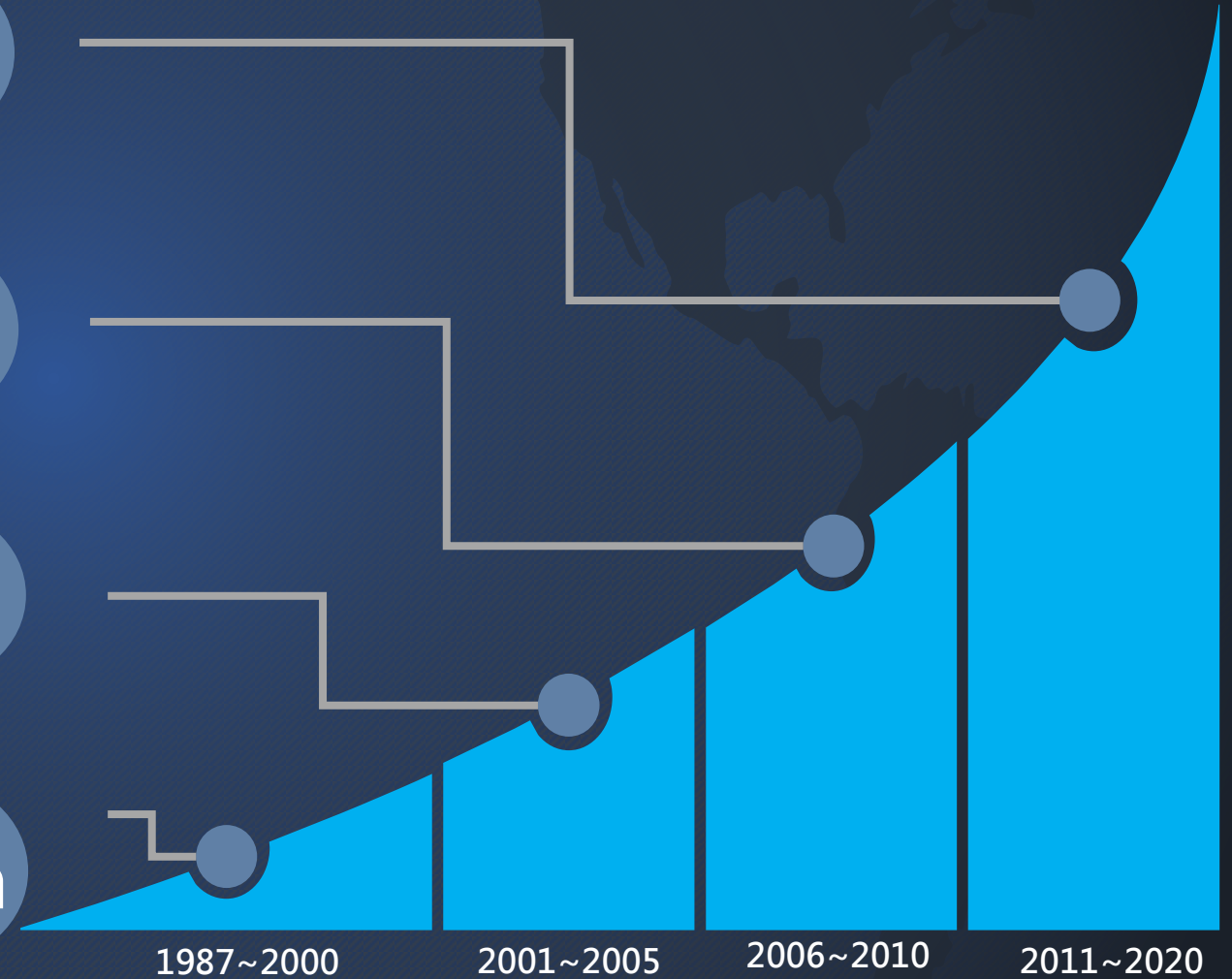
- . 2006 Started Business for injection parts
- . 2006 Phase in Gaming ME parts
- . 2009 Server order from US customer

## Growth :

- . 2001 Set up Kunshan factory
- . 2004 New Business for automotive tooling

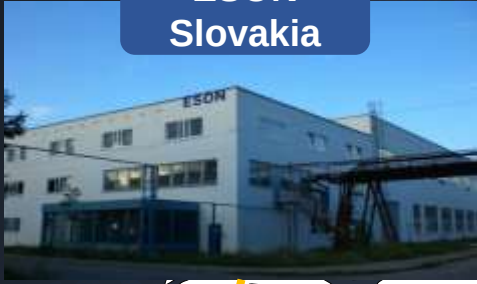
## Founding :

- . 1987 Founded tooling Plant in Taipei
- . 1995 New Business with Japanese Brand

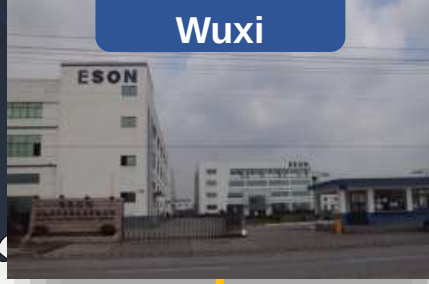




ESON  
Slovakia



ESON  
Wuxi



ESON  
Kunshan



ESON  
Yantai



ESON  
Dongguan



# Eson Global



( Complete Jun. 2021)



ESON  
Vietnam



ESON  
Malaysia II  
Batu Pahat



ESON  
Malaysia I  
Bangi



ESON  
Taipei Taiwan



ESON  
Tijuana Mexico



# ESON

## Mexico Facility





# ESON Mexico Tijuana Plant



- ◎ **Date of Establishment : October 2009**
- ◎ **Main Products : Plastics Injection Molding, Metal stamping, and Sub-assembly.**
- ◎ **Land Area : 121,110 square meters**
- ◎ **Building Area : 56,650 square meters**
- ◎ **Employees : 3,000**



# Plant Layout



**B8**

**New building- set up in 2020**

- Land: 21,000 m<sup>2</sup>
- Building :11,500 m<sup>2</sup>

**Expanding area**

- Land: 30,000 m<sup>2</sup>
- Building :14,000 m<sup>2</sup>

**R1**

Rental W/H  
6,500 m<sup>2</sup>

**B4**

Injection

**B5**

Stamping

**B3**

Metal  
assy line

**B2**

**B1**

Stamping

**B6 W/H**

**B7 Plastics assy  
& painting**

**B1 : Metal Stamping – (600T machine and above)**

**B2 : Office & W/H**

**B3 : Assembly Lien & W/H**

**B4 : Inject Molding**

**B5 : Metal Stamping (800T machine and below)**

**B6 : W/H**

**B7 : Plastic parts Painting & Assembly**

**B8 : New building**

**R1 : Rental W/H**



# Eson Mexico Stamping Facility





# B8 stamping machine list

| Type        | Tonnage | QTY |
|-------------|---------|-----|
| Progressive | 160     | 6   |
|             | 300     | 2   |
|             | 400     | 3   |
|             | 600     | 2   |
|             | 800     | 1   |
| Manual      | 110     | 12  |
|             | 160     | 5   |
|             | 200     | 6   |
|             | 250     | 7   |
|             | 300     | 10  |
|             | 400     | 7   |
|             | 600     | 1   |
|             | Total   | 62  |

# Eson Mexico- Stamping machine total

|             | Tonnage | Qty |
|-------------|---------|-----|
| Progressive | 150     | 2   |
|             | 160     | 7   |
|             | 300     | 5   |
|             | 400     | 4   |
|             | 600     | 3   |
|             | 800     | 2   |
| Manual      | 30      | 4   |
|             | 110     | 19  |
|             | 150     | 6   |
|             | 160     | 7   |
|             | 200     | 6   |
|             | 250     | 7   |
|             | 300     | 15  |
|             | 400     | 8   |
|             | 600     | 1   |
|             |         |     |

|                                       |             |     |
|---------------------------------------|-------------|-----|
| Tandem<br>Line<br>(Hydronic)<br>(R10) | 2000        | 1   |
|                                       | 1000        | 1   |
|                                       | 800         | 2   |
| Tandem<br>Line<br>(Mechanic)<br>(R11) | 1600        | 1   |
|                                       | 800         | 2   |
|                                       | 630         | 2   |
| Tandem<br>Line<br>(Mechanic)<br>(12)  | 2500        | 1   |
|                                       | 1250        | 2   |
|                                       | 1000        | 2   |
| Transfer<br>Line 1 (8)                | 800         | 1   |
|                                       | 600         | 2   |
|                                       | 400         | 4   |
| Transfer<br>Line 2 (R9)               | 400         | 4   |
|                                       | 300         | 2   |
| Transfer<br>Line 3<br>(R13)           | 600         | 2   |
|                                       | 400         | 5   |
|                                       |             |     |
|                                       | Grand Total | 131 |



# Mexico Injection Molding

| Injection machine<br>Tonnage | Qty |
|------------------------------|-----|
| 80                           | 3   |
| 120 T Vertical               | 1   |
| 160 Double Shot              | 1   |
| 190                          | 1   |
| 250 Thermoset                | 3   |
| 290                          | 2   |
| 350                          | 2   |
| 400                          | 1   |
| 450                          | 4   |
| 450 Double Shot              | 1   |
| 550                          | 6   |
| 550 Double Shot              | 2   |
| 650                          | 5   |
| 850                          | 5   |
| 950                          | 1   |
| 1300                         | 7   |
| 1450                         | 3   |
| 1600                         | 3   |
| 1800                         | 4   |
| 2500                         | 2   |
| 3000                         | 1   |
| Total                        | 58  |





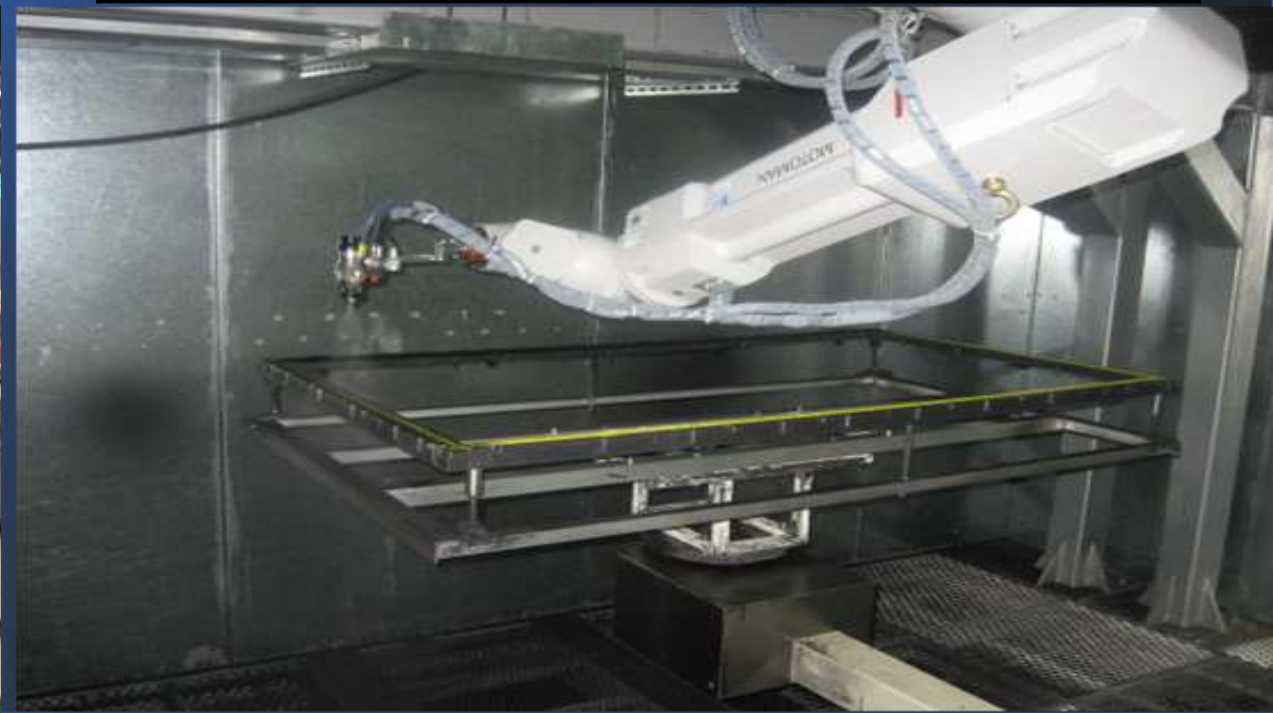
# Auxiliary equipment for injection

| HEAT & COLD INJECTION MOLDING (STEAM)                                                      | GAS ASSISTANCE INJECTION MOLDING                                                                                                                | DOUBLE SHOT INJECTION MOLDING                                                                                                                | THERMOSET INJECTION MOLDING                                                                               | INSERT MOLDING                                                                                                                          | ULTRASONIC WELDING                                                                                   |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|            |                                                                |                                                            |                        |                                                      |                   |
|           |                                                               |                                                           |                       |                                                     |                  |
| HEAT AND COLD TECHNOLOGY (STEAM) BRINGS COSMETIC HIGH GLOSS APPAREANCE ON PLASTICS PIECES. | GAS ASSISTANCE ALLOW TO REDUCE SINK MARKS ON LARGER PIECES WITHOUT USING HIGHER PERCENTAGES OF HOLDING PRESSURE, REDUCING PART WEITGHT ON PIECE | DOUBLE INJECTION SHOT COMBINE ONE SOLID PLASTIC COMPOUND JOINT WITH A SOFTER PLASTIC COMPOUND; SUCH AS COMBINATION OF ABS & RUBBER MATERIAL. | THERMOSET TECHNOLOGY WHERE BMC MATERIAL ARE USED HIGHER RESISTANCES PORPUSES SUCH AS ELECTRIC CONTACTORS. | INSERT MOLDING ALLOWS TO COMBINE EITHER A PLASTIC PART AND METAL PART, OR DIFFERENT PLASTIC PARTS TO ASSEMBLY TOGETHER AFTER INJECTION. | ULTRASONIC WELDING TECHNOLOGY ALLOW TO JOINT TO PLASTIC PARTS COLD OR HOT ASSY TOGETHER BY FRICTION. |



# Mexico Finishing Facility

| Major Equipment                                   | Qty |
|---------------------------------------------------|-----|
| Painting Robot Line<br>(Two Robots for each line) | 2   |
| Manual Painting Line                              | 2   |
| Powder Coating Line                               | 1   |
| Assembly Line                                     | 9   |





# Secondary process

**Pad Printing**



**Silk Screen**



**Hot Stamping Machine Roller Type**  
1) 800L\*150mm  
2) 1500L\*120W



**Hot Stamping Machine Up-Down Type**  
300\*150mm



**Welding Machine VW5700 Table**  
Size 1320 mm (52") by 610 mm (24")  
**Vibration Welder**



**Hot Melt Machine Made In House**



**Robot Coating**



**UV Light Machine x 1 Units**  
(Conveyor: 100H\*1000W\*240 OL)



**Flocking**



|    | ITEM                 | DE Scription                       | SPECIFICATION        | TYPE           | UNIT |
|----|----------------------|------------------------------------|----------------------|----------------|------|
| 組裝 | CONVEYOR LINE        | CONVEYOR LINE 1,4,5,8              | 1.4M(W) x 38METER(L) | Transportation | 4    |
|    |                      | CONVEYOR LINE 2,3,6,7              | 1.4M(W) x 36METER(L) | Transportation | 4    |
| 塗裝 | COATING ROBOT OVEN   | ROBOT MOTOMAN YASKAWA              | 10 KG PAYLOAD        | Coating        | 7    |
|    |                      | OVEN CONVEYOR 1.4M(W) x 38METER(L) | 1200 * 280mm(Inside) | Heater Halogen | 6    |
| 零件 | PAD PRINTER MACHINE  | PAD PRINTING MACHINE               | 100 * 150mm          | INK TRAY       | 4    |
|    |                      | PAD PRINTING MACHINE               | 100 * 300mm          | INK CUP-80     | 12   |
|    | SILK SCREEN MACHINE  | SILK SCREEN MACHINE                | 400L * 150W          | AUTO SCREEN    | 1    |
|    |                      | SILK SCREEN MACHINE                | 1600L * 200W         | AUTO SCREEN    | 1    |
| 獎金 | HOT STAMPING MACHINE | HOT STAMPING ROLLER PRESS          | 1500L * 120W         | Roller         | 1    |
|    |                      | HOT STAMPING ROLLER PRESS          | 800L * 100W          | Roller         | 2    |
|    |                      | HOT STAMPING UP-DOWN PRESS         | 300 * 150mm          | Up-Down        | 2    |
|    |                      | HOT STAMPING UP-DOWN PRESS         | 300 * 300mm          | Up-Down        | 3    |



# MX TJ- Tool Shop

## Tooling maintenance team equipment

| Item | Equipment                          | Qty |
|------|------------------------------------|-----|
| 1    | Milling Machine                    | 4   |
| 2    | Radial Arm Drill Press             | 2   |
| 3    | Lathe                              | 2   |
| 4    | CNC Machining Center               | 3   |
| 5    | Surface Grinding Machine           | 4   |
| 6    | Wire Cutting Machine               | 3   |
| 7    | Electrical Discharge Machine (EDM) | 2   |
| 8    | Drill EDM                          | 2   |
| 9    | TIG welder                         | 1   |
| 10   | Surface Grinding Machine           | 1   |
| 11   | Turn Over Machine                  | 1   |

| Department             | Headcount |
|------------------------|-----------|
| Injection tooling team | 16        |
| Stamping tooling team  | 14        |





# MX TJ- ISO Certificate

## ISO 14001 : 2015

|                                                                                  |                                                                                   |                  |            |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|------------|
|  |  |                  |            |
| Reg. Number                                                                      | 7596 - E                                                                          | Valid from       | 2021-09-02 |
| First issue date                                                                 | 2009-04-03                                                                        | Last change date | 2021-09-02 |
| Valid until                                                                      | 2024-09-13                                                                        | UFI Sector       | 14 , 17    |

**Environmental Management System Certificate**  
**ISO 14001:2015**

We certify that the Environmental System of the Organization:  
**MULTIWIN DE MEXICO S.A DE C.V.**  
is in compliance with the Standard UNI EN ISO 14001:2015 for the following products/services:

Production of plastic injection molding, metal stamping, painting and assembly parts for the electronic and automotive industry.

Chief Operating Officer  
Giampiero Belcredi



The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Cermet Italia contractual requirements.  
This certificate is composed of 1 page.

**MULTIWIN DE MEXICO S.A DE C.V.**  
Registered Headquarters  
- Blvd. La Jolla No. 4432, Parque Industrial La Jolla, 22525 Tijuana B.C. Mexico  
Certified sites  
- Blvd. La Jolla No. 4432, Parque Industrial La Jolla, 22525 Tijuana B.C. Mexico



## ISO 9001 : 2015

|                                                                                   |                                                                                     |                  |              |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|--------------|
|  |  |                  |              |
| Reg. Number                                                                       | 7596 - A                                                                            | Valid from       | 2021-09-02   |
| First issue date                                                                  | 2009-03-12                                                                          | Last change date | 2021-09-02   |
| Valid until                                                                       | 2024-09-13                                                                          | UFI Sector       | 14 , 19 , 17 |

**Quality Management System Certificate**  
**ISO 9001:2015**

We certify that the Quality Management System of the Organization:  
**MULTIWIN DE MEXICO S.A DE C.V.**  
is in compliance with the standard UNI EN ISO 9001:2015 for the following products/services:

Production of plastic injection molding, metal stamping, painting and assembly parts for the electronic and automotive industry.

Chief Operating Officer  
Giampiero Belcredi



The maintaining of the certification is subject to annual surveillance and dependent on the observance of Kiwa Cermet Italia contractual requirements.

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## IATF-16949-2016

|                                                                                     |                                                                                     |                  |            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|------------|
|  |  |                  |            |
| Reg. Number                                                                         | 7596 - T                                                                            | Valid from       | 2019-09-18 |
| First issue date                                                                    | 2019-09-18                                                                          | Last change date | 2019-09-18 |
| Valid until                                                                         | 2021-09-17                                                                          | UFI Sector       | 0304000    |

**Quality Management System Certificate**  
**IATF 16949:2016**

We certify that the Quality Management System of the Organization:  
**Multiwin de Mexico S.A de C.V.**  
is in compliance with the standard IATF 16949:2016 for the following products/services:

Manufactures and painting of powertrain, chassis by injection molding, metal stamping and assembly.

Chief Operating Officer  
Giampiero Belcredi



**Exclusion:** 8.3 related to the product design.

This certificate is issued in accordance with IATF Rules - 7.001.001.001.  
Maintenance of the certification is subject to annual audits and dependent upon the observance of Kiwa Cermet Italia contractual requirements.

This certificate is composed of 1 page.

**Multiwin de Mexico S.A de C.V.**  
Certified Sites  
- Carban Galerias de Steel, La Jolla No. 4432, Parque Industrial La Jolla, Tijuana B.C. Mexico C.P. 22525







# Automotive Products

ESON

## Inner Parts



Car Audio Parts



FR Seat Module



Subwoofer ME parts

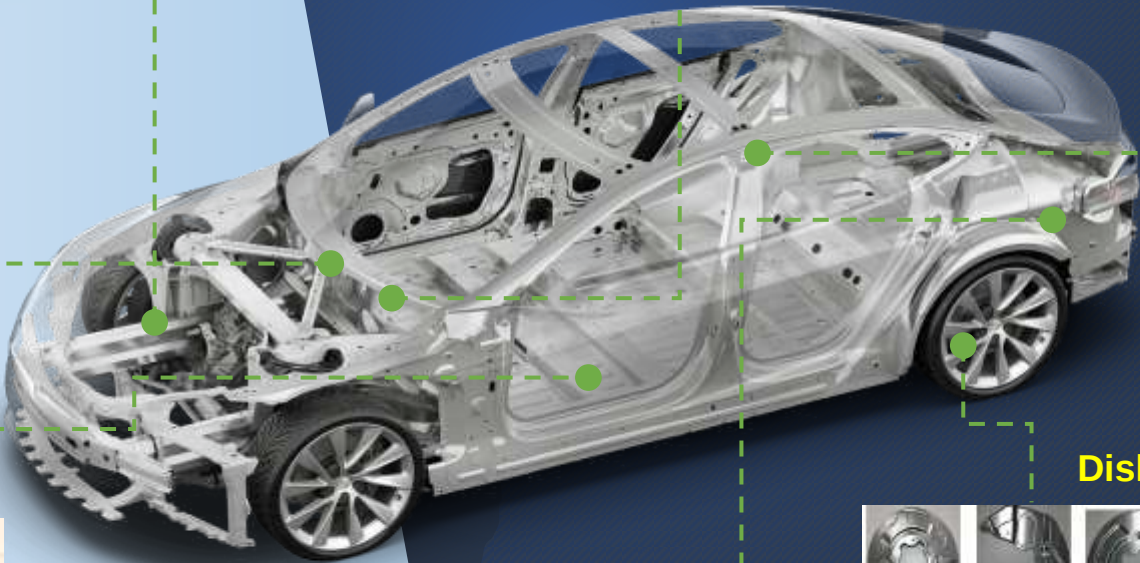


Stiffener Bracket of Engine Room

## Body Parts



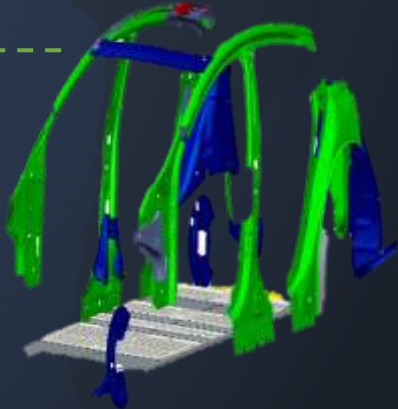
Dashboard Metal Parts.



Body Frame Module



Disk Covers







# Cloud Products

ESON



2U



1U

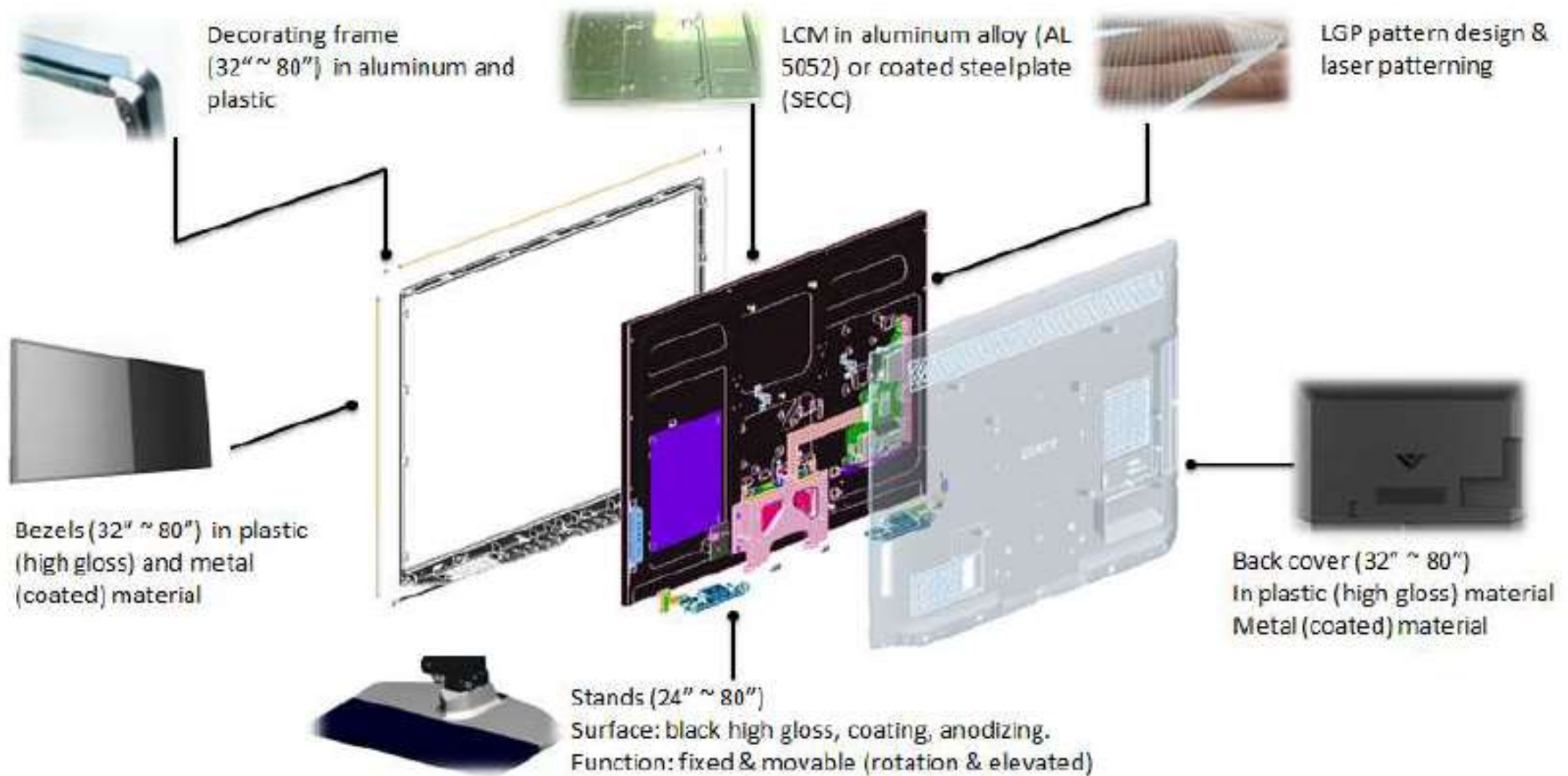


Desktop





# Consumer Electrical Products





# Factory Location Monterrey

# ESON



- Monterrey~ Tijuana 2,400km
- Monterrey~ Austin(US) 600km
- Monterrey~ Juarez 1,100km



# Las America Industrial Park Monterrey

ESON

Land: 68,802 m<sup>2</sup>  
(740,579 ft<sup>2</sup>)

Building: 25,000 m<sup>2</sup>  
( 269,098 ft<sup>2</sup>)

Expected Completion: March, 2023

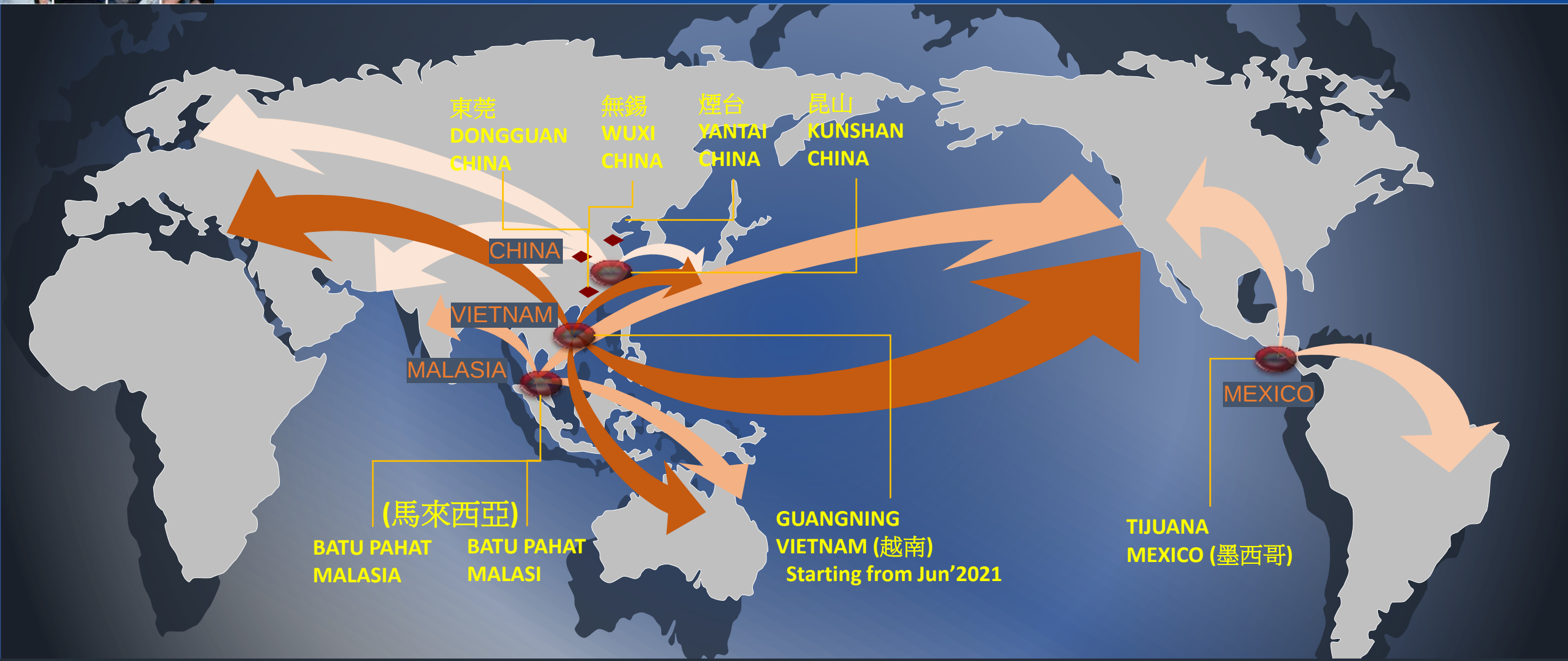
Process:  
Stamping, Injection & Tooling Maintenance





# Global Strategic Layout

ESON



Taking China, Malaysia, Mexico and Vietnam as production sites and focus on global manufacturing services.





# THANK YOU

