



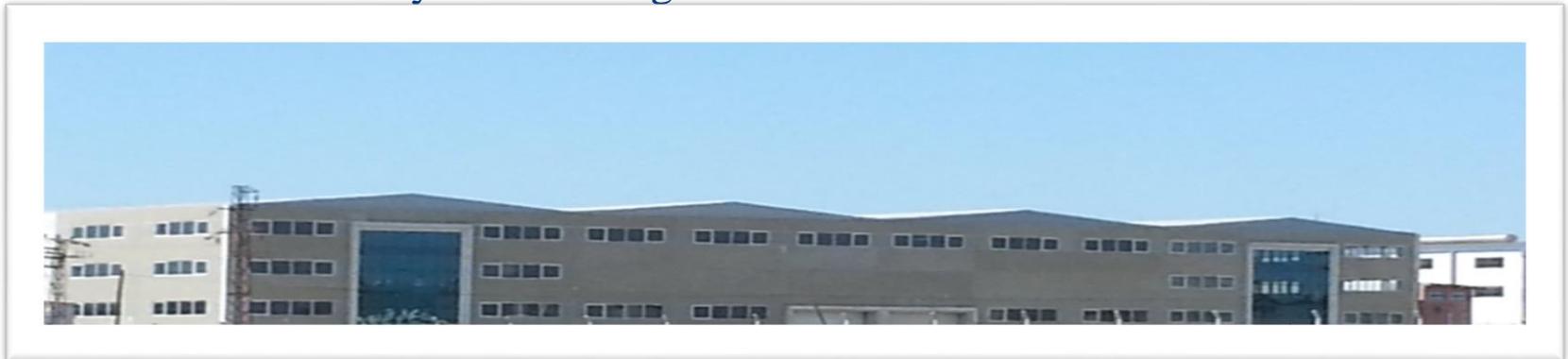
Your Reliable Technology Partner !



# History



- SEMA KALIP is a company of Sema Group and was established in 1997 in Istanbul.
- Sema Kalıp is the leading mould producer in Turkey located in Çerkezköy (20.000 m<sup>2</sup>, mould manufacturing and injection) and Istanbul (1000 m<sup>2</sup>, mould manufacturing). Our group company employes 298 people.
- New Investment is 3rd plant located in Bursa. (1.000 m<sup>2</sup>, mould manufacturing and injection)
- Our company target is to produce moulds with the highest quality, at the best cost with a short delivery time in the global markets.



# Sema Group Product Range

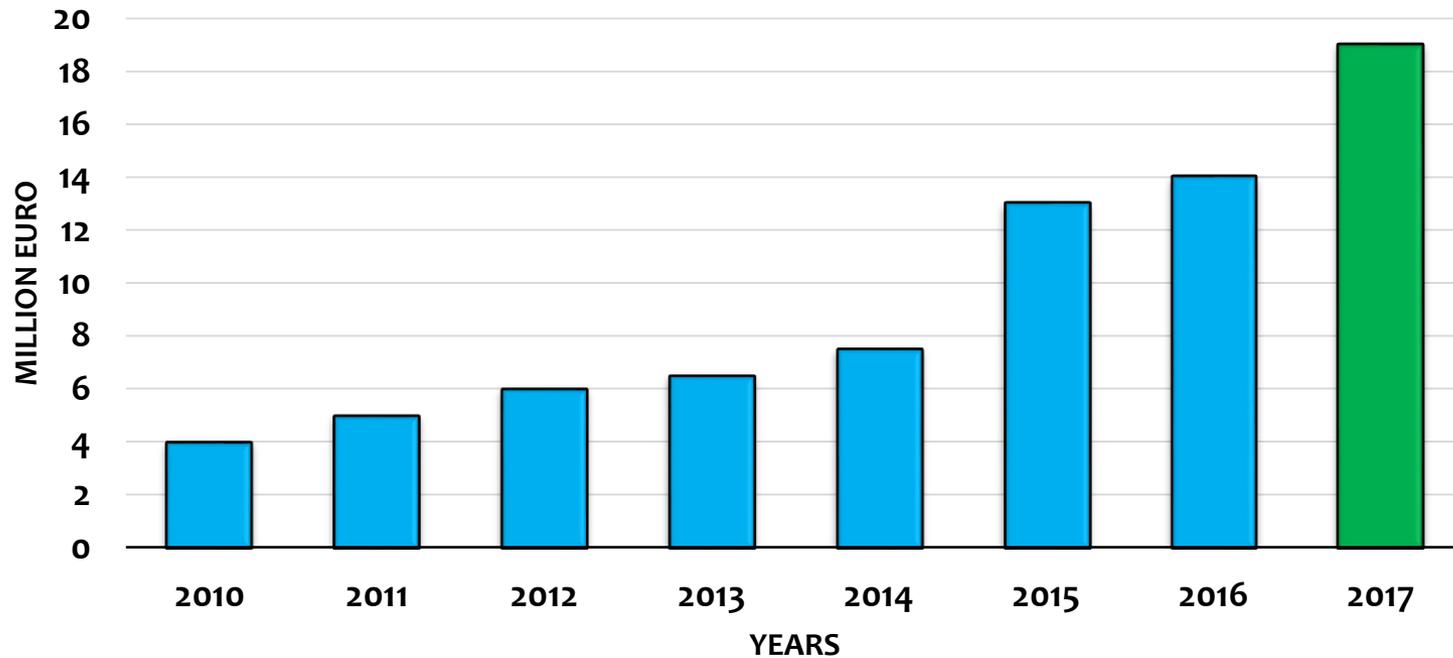


1. Technical and complex plastic injection mould production
2. Industrial plastic injection components production
3. Medical plastic tube and cover production (effervescent tubes and covers)
4. Wood Plastic composite applications

# Sema Group Turnover



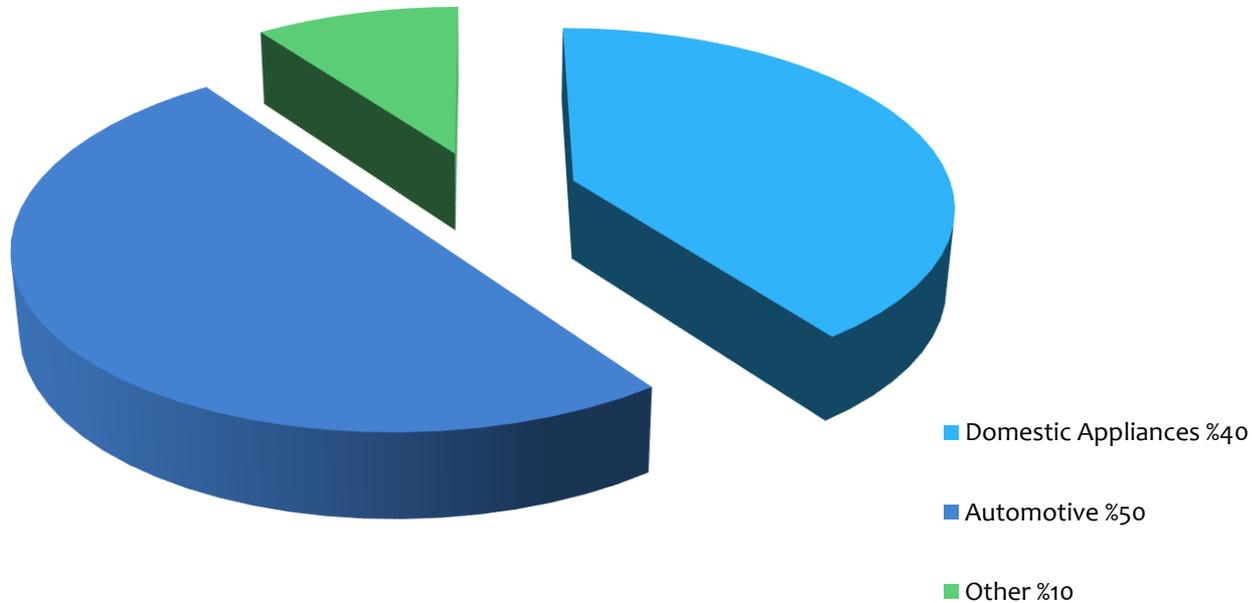
Sema Group Turnover



# Sema Group Turnover



**Sectoral Sales**



# Quality certificates



Registered to  
ISO/TS 16949

- ISO/TS 16949  
Quality  
Management  
System



- ISO 9001
- Quality  
Management  
System



- OHSAS 18001
- Occupational  
Health and  
Safety

# Quality certificates



- ISO 14001
- Environmental Management System



- Forest Stewardship Council



# PLASTIC PRODUCTION

# Plastic Production



## Injection Machines

- 1 pc. 110 t HAITIAN
- 1 pc. 170t t.s.p
- 1 pc. 260 t t.s.p.
- 1 pc. 300 t HAITIAN
- 1 pc. 380 t t.s.p.
- 1 pc. 560 t LK
- 1 pc. 600 t HAITIAN
- 2 pc. 600 t t.s.p.
- 1 pc. 800 t t.s.p.
- 1 pc. 850 t LK
- 1 pc. 880 t t.s.p.
- 1 pc. 1000 t HAITIAN
- 3 pcs. 1080 t t.s.p.
- 1 pc. 1300 t LK – 3K
- 1 pc. 1300 t LK – 2K
- 1 pc. 1300 t TSP
- 1 pc. 2200 t t.s.p.
- 5 pc. 160T Negri Bossi

## New Invested

- 1 pcs. 1000 Engel Bi Injection
- 1 pcs 700W Engel Bi Injection
- 1 pcs. 651 T Krauss Maffei
- 

**Total injection machines: 28 (including 5 electrical injection machines)**

# Plastic Production



651 T Krauss Maffei



Engel Duo 700



# Plastic Production



Production Area



# Plastic Production Equipments



## Robots



## Motan Central Feed System



# Plastic Production Equipments



**6 silos;  
100+100 tons,  
100 tons,  
100 tons,  
75 tons,  
75 tons,  
40 tons**

# Plastic Production Warehouse System



**FIFO**  
(First In First Out)



# Laboratory



# Machinery



- 2 pc. DIA MISTIRAL CMM



- 3D FARO Surface Scanner



# Machinery



- FARO 3D Surface Scanner



# Plastic Production



**GALSAN PRODUCTS**  
Mercedes Door Handle  
Parts

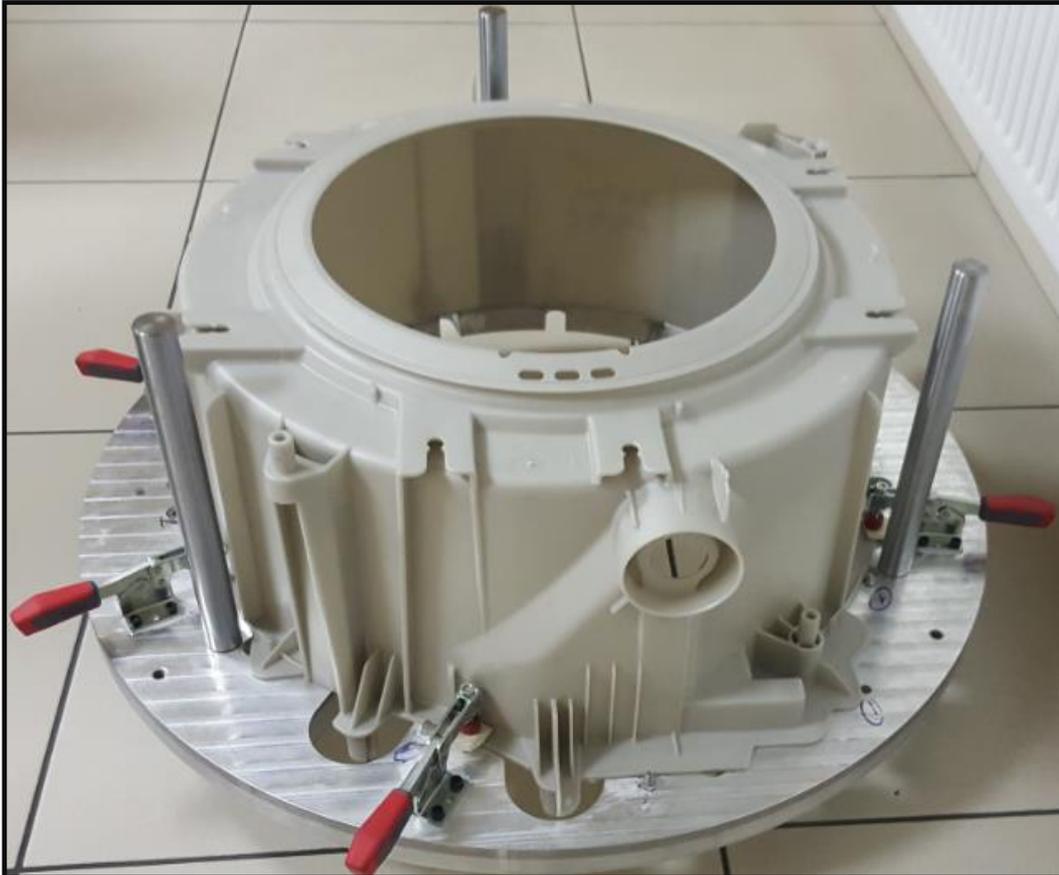
# Plastic Production



## BSH F490 project Front Tub



# Plastic Production



**BSH F490 project**  
Front Tub

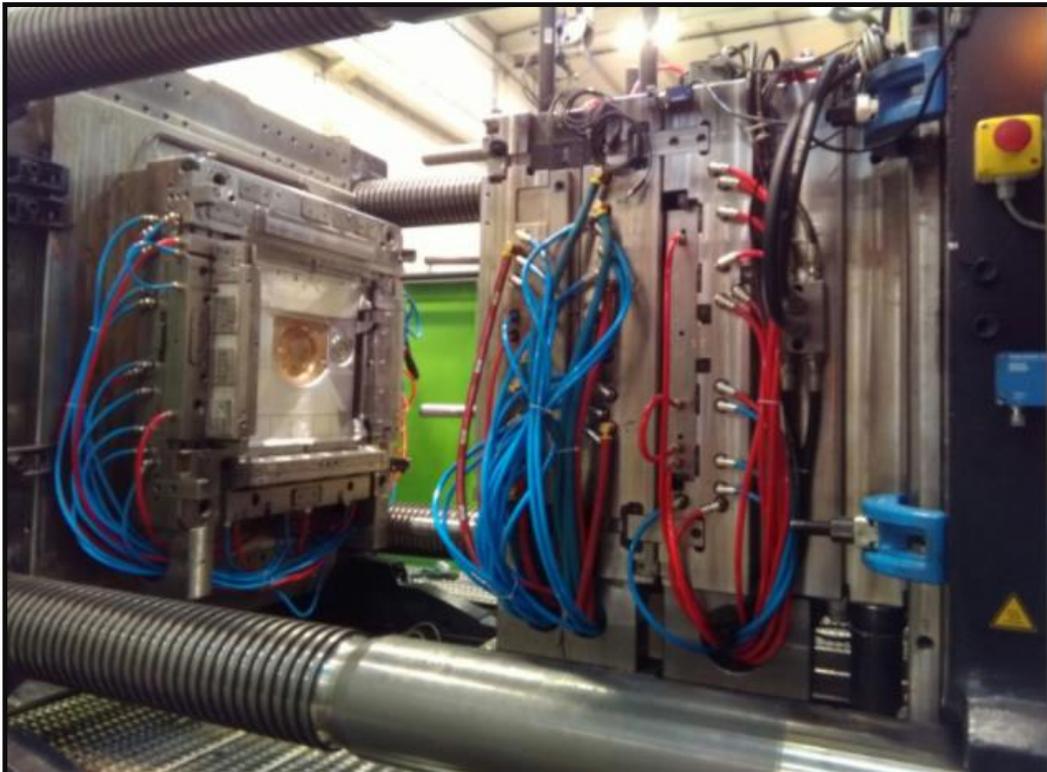
# Plastic Production



## **BSH dishwasher**

Plastic Base

Tandem mould



# Plastic Production



## **BSH A-COOL PRODUCTS**

flaps, drawers

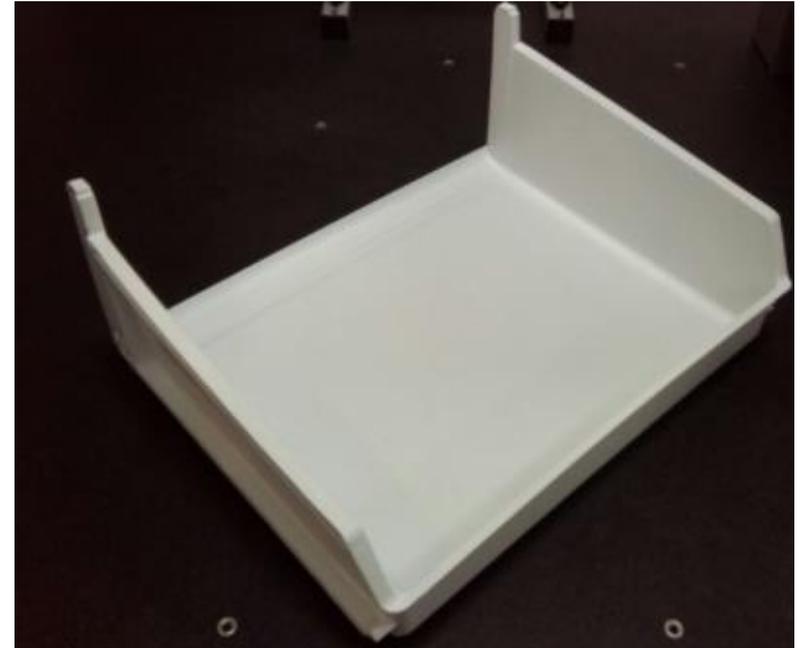
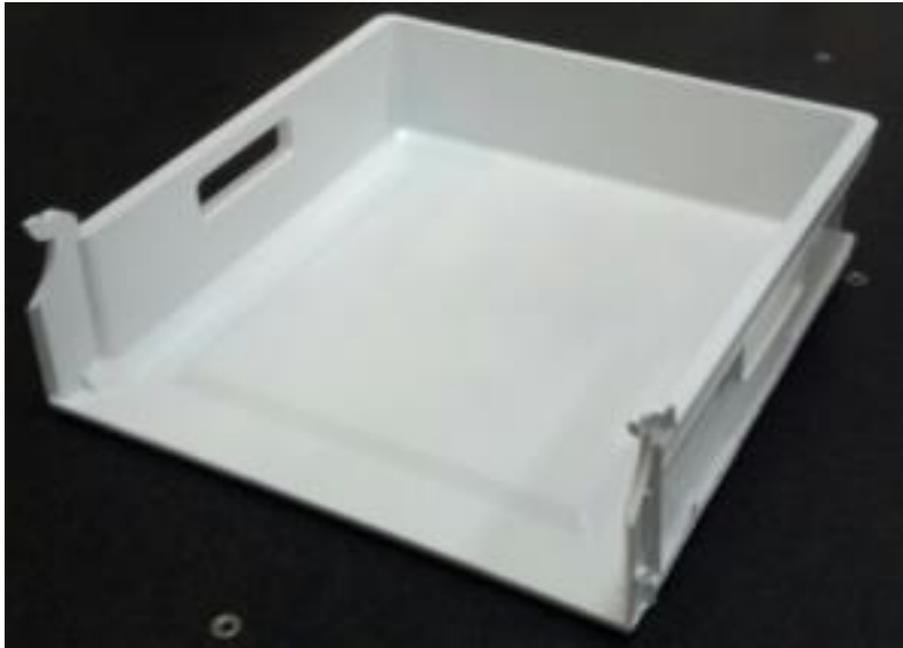


# Plastic Production



**BSH**

PP drawers

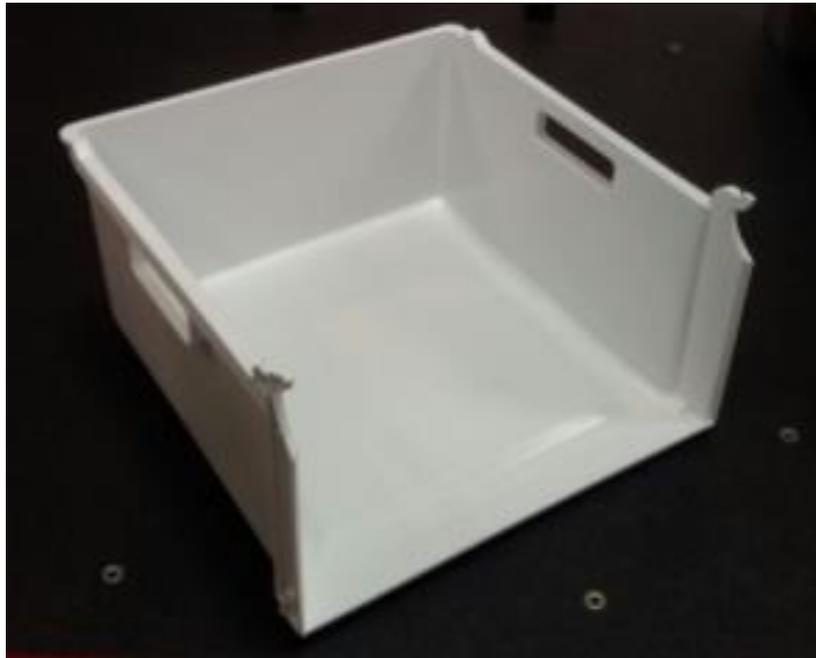


# Plastic Production



**BSH**

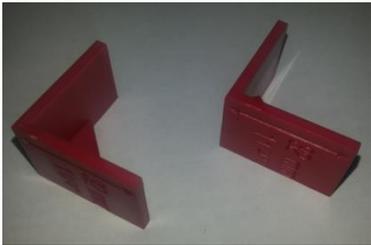
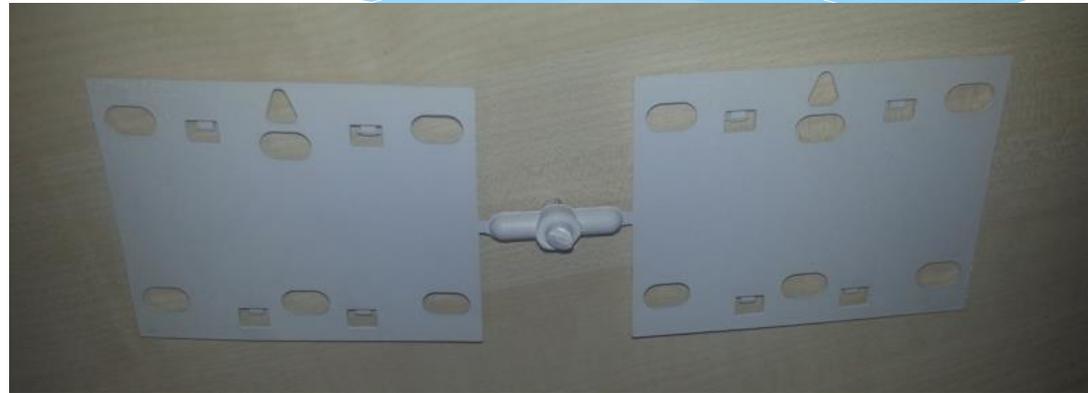
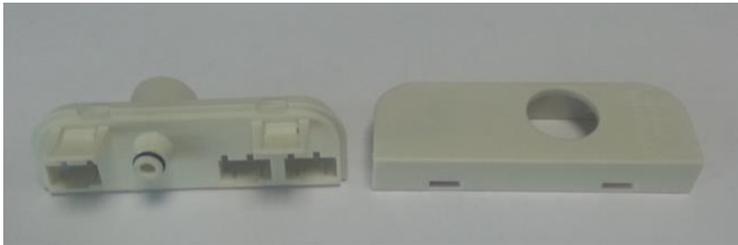
PP drawers



# Plastic Production



**BSH  
PRODUCTS**



# More Production Samples



**2K seat**

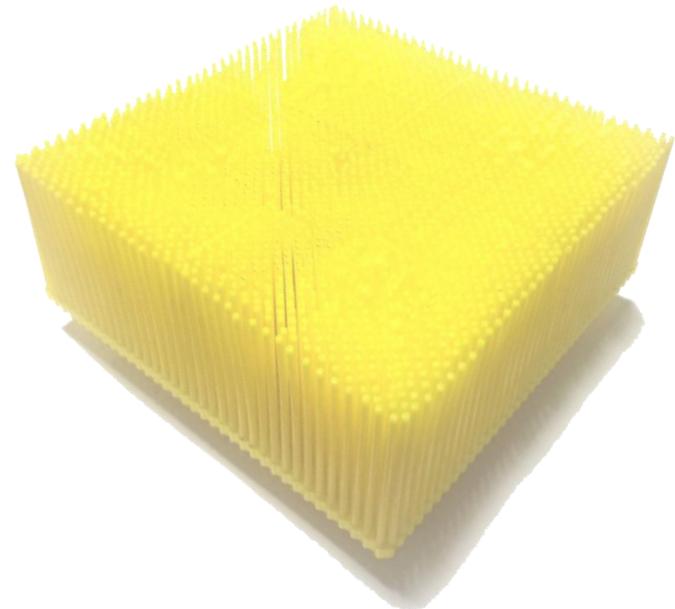
# Plastic Production



**SAMSON**  
Pump Body



**Textile Machinery part**



# Medical tube and cover production



**For Medical**  
Effervescent tubes and covers



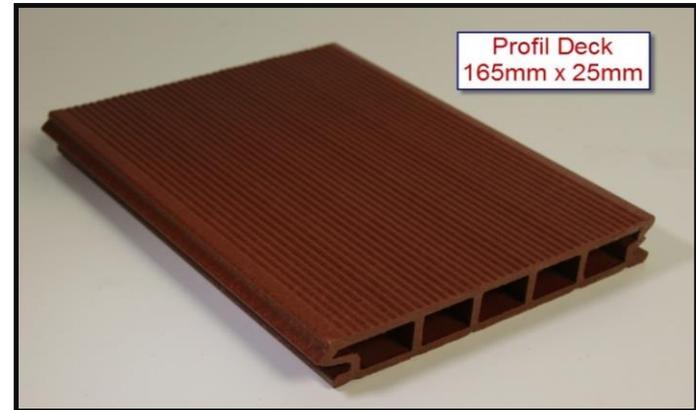
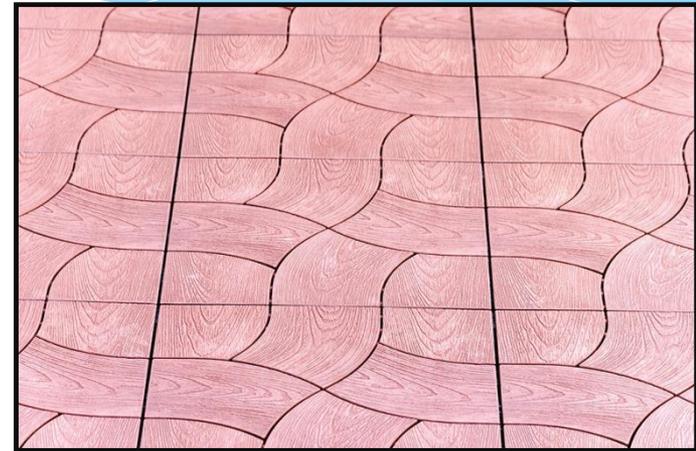
# Medical tube and cover production



5 pc. 160 t Negribossi electrical in Cleanroom



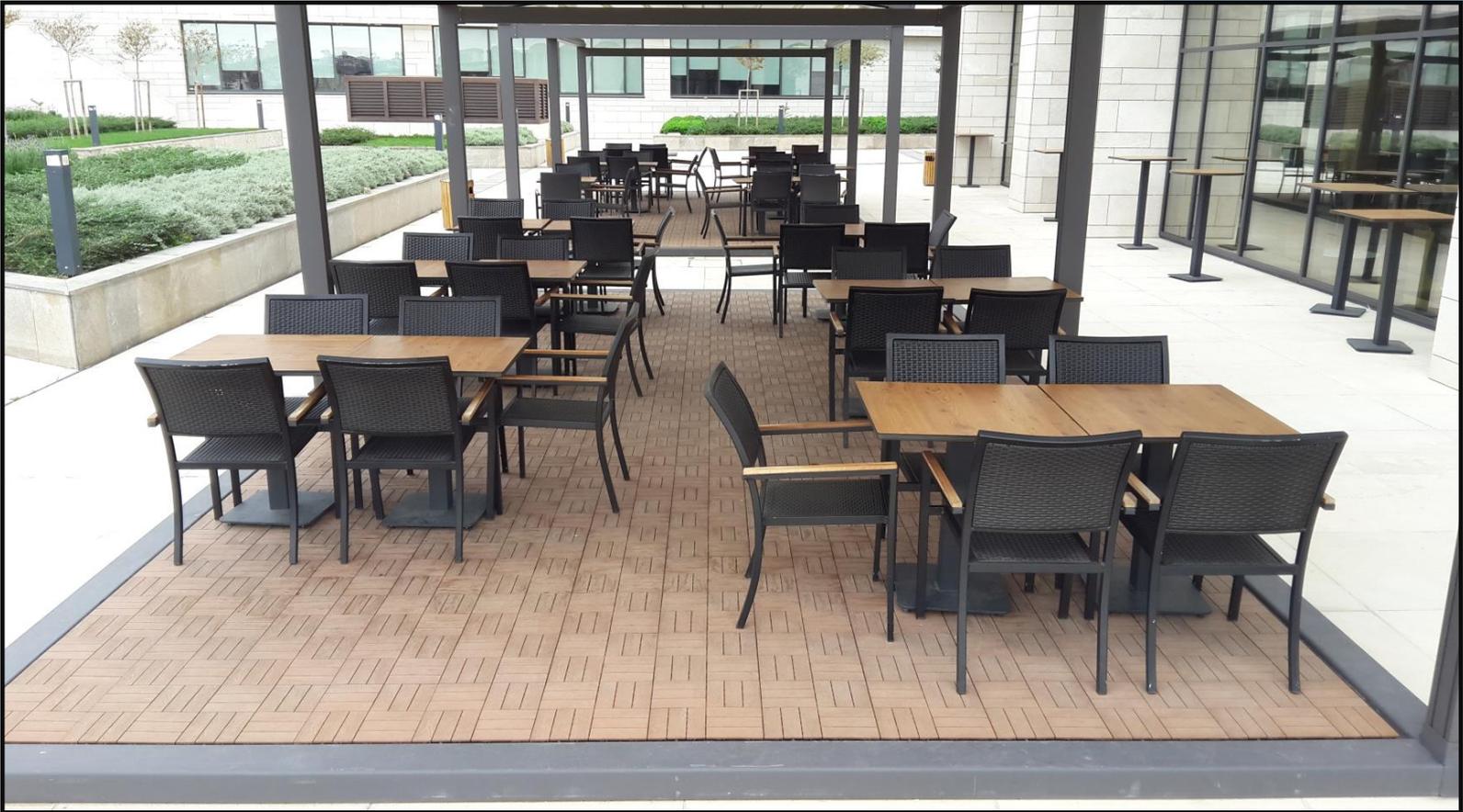
# Wood Plastic Composite



# Wood Plastic Composite



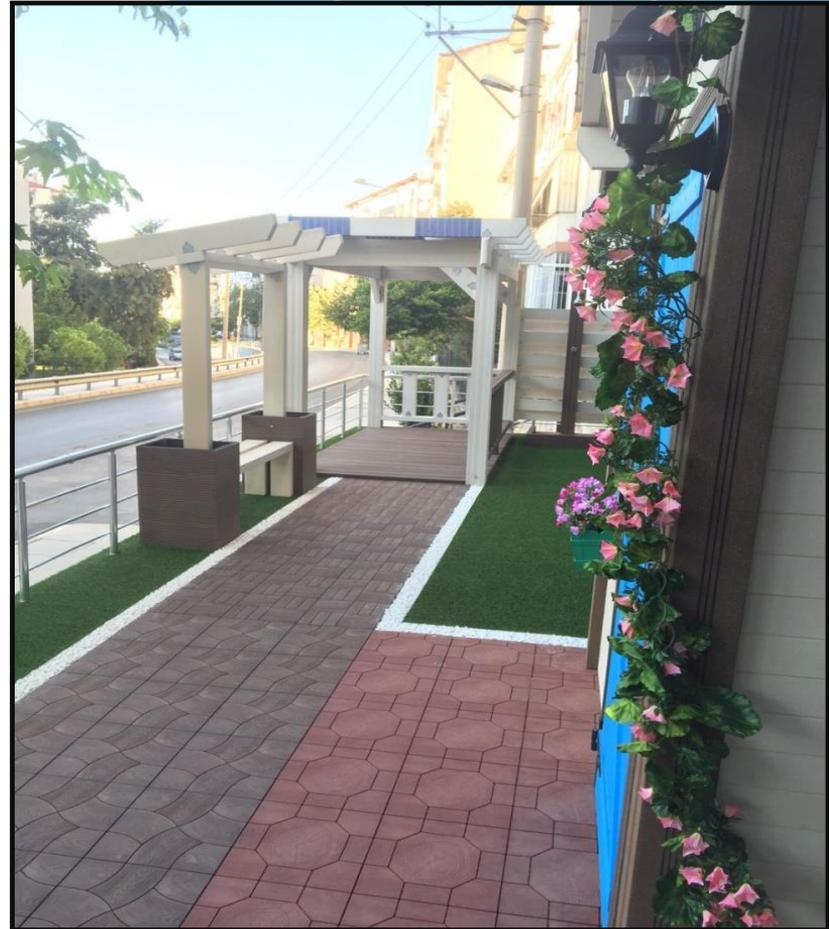
Application areas;  
İş Bank Headquarter



# Wood Plastic Composite



Application areas;





# MOULD PRODUCTION



# Capacity



- 2 Mould manufacturing locations: Çerkezköy and Istanbul.
- Mould production with 127 (Çerkezköy) + 42 (Istanbul) + 10 (Bursa) employees in three shifts.
- We have all technical equipments and machines to manufacture plastic injection moulds until 60 tons.
- Actually we use approximately 1.000 tons/year steel.
- 360 moulds with a weight of approximately 2 tons can be produced in a year.
- We can manage 30 tools at the same time.

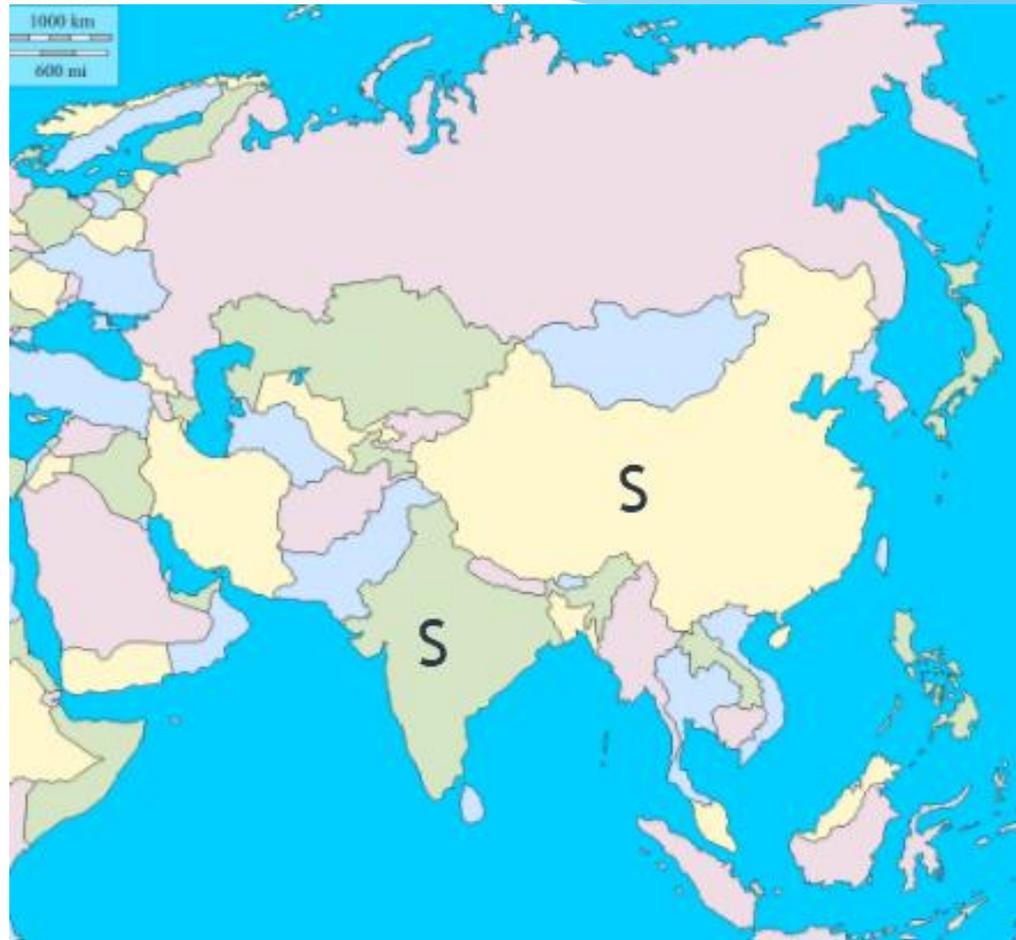
# Export Map Europe



# Export Map North-America



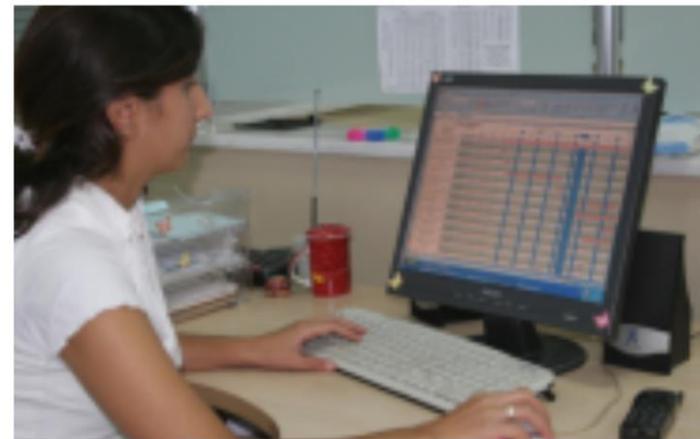
# Export Map Asia



# Overview of Employees



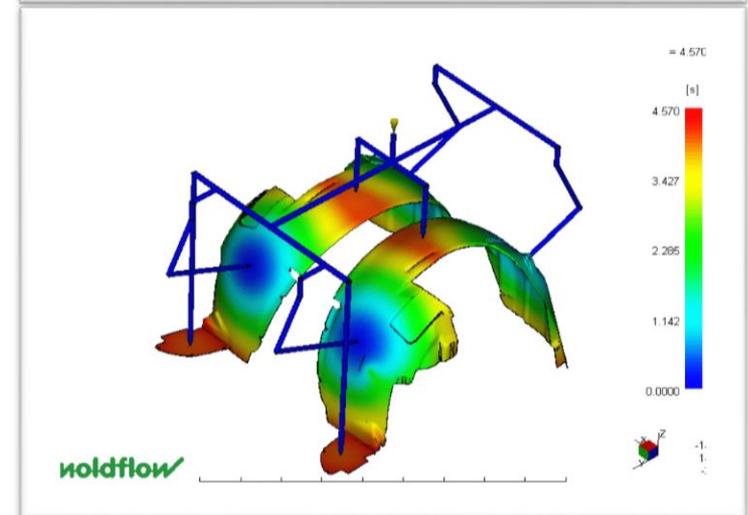
- 6 Managers  
(4 engineers)
- 19 People in mold design  
(5 engineers)
- 7 People in project management  
(3 engineers)
- 9 People in CAM design
- 39 People in CNC/EDM team
- 55 People in mold assembly
- 8 People in polishing team
- 17 People in mold testing and quality control team



# Design Capability



- CAD : Solidworks (29 seats) and Unigraphics (1 seat)
- CAE : Moldflow MPI, Moldflow Synergy and Cadmould
- CAM : WorknNC - Powermill
- Mold design from 3d, 2d, plastic part sample or prototype
- Work with usual data formats (iges, parasolid, step, sat, dxf, dwg, cgm...)



# Moulds



## Automotive

- **Interior Trim Parts**  
(Door trims, Seat covers, Shift console, Handle grip and trim, etc..)
- **Exterior Trim Parts**  
(Door side trims, Plate holder, Wheel covers, Mirror parts, etc..)
- **IP Parts**  
(IP, Box, Compartment, Meter cluster, radio box, etc..)
- **Bumper Parts**  
(Laterals, Grille, Spoiler set, Fog lamp frame, Trappe, Reflectors)
- **Engine Parts**  
(Battery cover, Air filter parts)
- **Others**  
(Mud guards)

# Automotive Customers



Mercedes-Benz



RENAULT



**HONDA**  
The Power of Dreams



# Automotive Customers



# Automotive Customers



# Moulds



- **Refrigerator**

Control panels, vegetable drawer, bottle holders, glass shelf profile, door plastic parts, egg trays, cover frames, PC panels, motor covers, drawers, rail systems, ice trays, ice cracker systems.

- **Washing Machine and Dishwasher**

Cutlery basket and accessories, panels, detergent drawers, buttons, bottom door guard, clothes loader doors, water spray systems for dishwashers, fans, wheel and rail systems, PC lenses, board card holder, PMMA light transfer parts.

- **TV – DVD – DVB Electronic Industry**

CRT TV front and back covers, TFT-LCD front and back panels, DVD – DVB panel, buttons, lens, CD and DVD holder parts, cash register parts, cable holder etc.

- **Others**

Vacuum cleaner, Small home machines, Crates, Pallets, Garden furniture parts, Bathroom parts, etc...

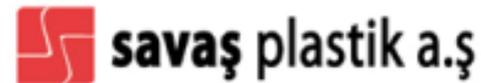
# Main Customers for Appliances Market



B/S/H/



# Other Customers



# Machinery



## **CNC Machines**

- 13 pcs. CNC machines

## **EDM/WEDM**

- 15 pcs. EDM (3 with 2 heads) in Çerkezköy and 4pcs. EDM in Istanbul
- 2 WEDM

## **Deep Hole Drilling**

- 2 pcs.

# Machinery



## Universal Machines

- 6 pcs. Milling machines NC
- 2 pcs. Grinding machines
- 3 pcs. Lathes
- 2 pcs. Drilling machine



# Machinery



- 1 pc. Hermle 5 Axis  
(1000\*1100\*700)  
0.002 mm precision control



# Machinery



- **Huron High Speed KX-30**  
(1800 x 1000 x 800)  
0.002 mm precision control
  
- **Hardford DM100**  
(2200 x 1500 x 1100 -12ton)  
0.005 mm precision control



# Machinery



- 1 pc. Hartford MVP13  
(1300 x 700 x 530)  
0.005 mm precision control

- 1 pc. Hartford HSA2215  
(2200 x 1500 x 780)  
0.005 mm precision control



# Machinery



- 1 pc. Hartford  
0.005 mm precision control



- 1 pc. Hartford  
0.005 mm precision control



- 1 pc. Sure First  
0.005 mm precision control



# Machinery



- 1 pc. Alfa Seiki  
(3200 x 2100 x 1100)  
0.002 mm precision control



# Machinery



- **JOINT deep hole drilling**  
(2200x1300x2200)



- **Microntec deep hole drilling**



# Machinery



- **CNC Borwerk**  
(3000x2000x1500)



# Machinery



- 3 pcs. EDM  
with 2 heads  
(3100\*x 1100 x 800)



# Machinery



- 3 pcs. EDM



- 5 pcs. EDM (little sizes)



# Machinery



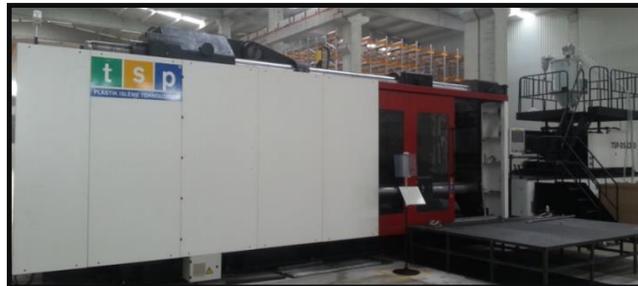
- 1 pc. Mould Spotting Presses

# Machinery



## Injection Test Machines

- Mould trials made in-house on injection machines from 110T up to 2200 T



# Automotive Lighting



- Farba - Ford  
H625 Housing

# Automotive Lighting Samples



- Feka  
Automotive –  
Toyota Lens

# Automotive Lighting Samples



- Feka Automotive –  
Toyota Housing

# More Production Samples 2K moulds



Battery cover  
2K rotational mould



**Renault Clio**  
Air Guide  
2K transfer mould

# Jaguar E-Pace X540 Project - Faurecia

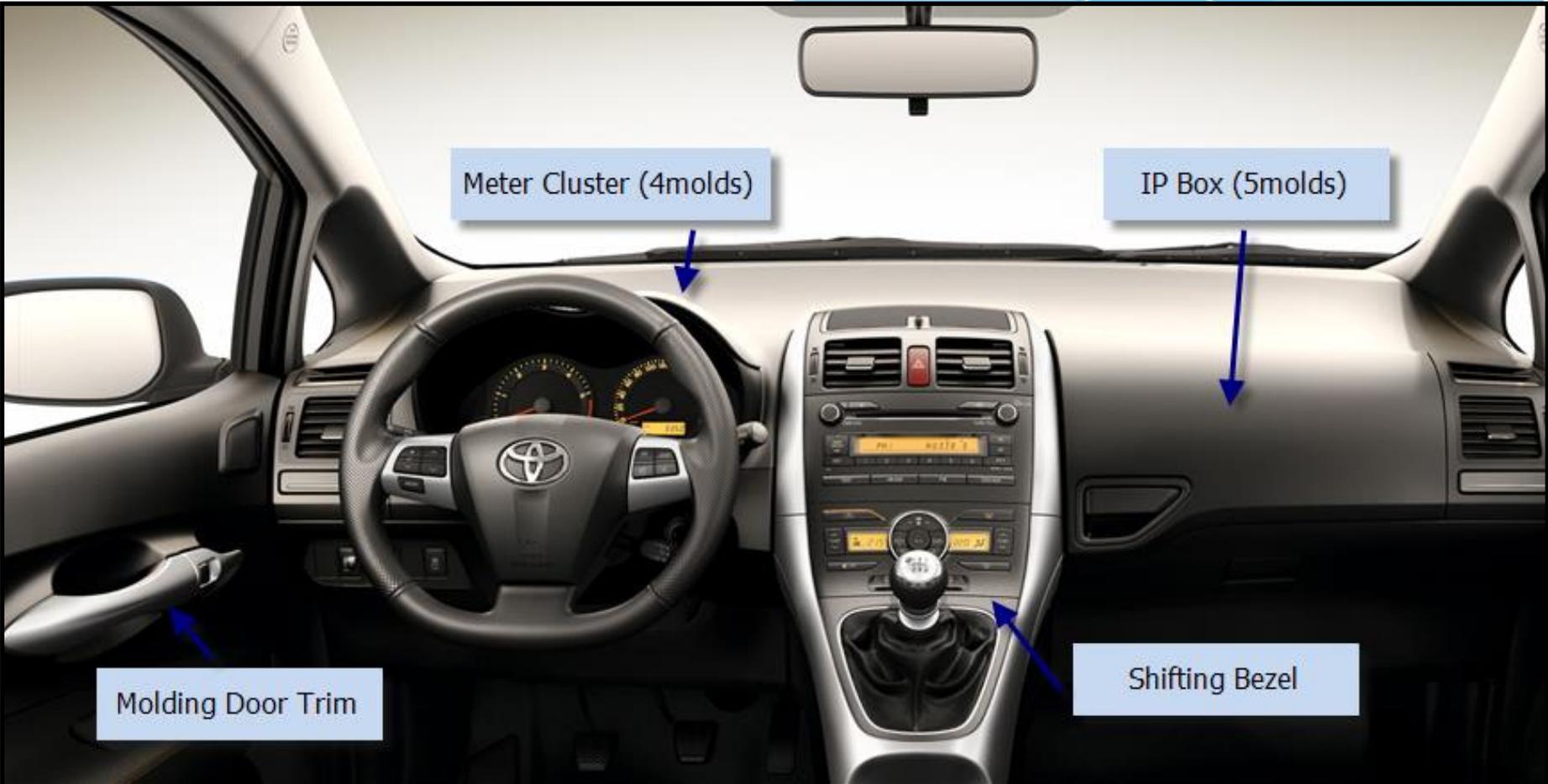


## **6 MOLDS WERE BUILT**

- Front Top Roll
- Rear Top Roll
- Front Armrest
- Rear Armrest
- Front Insert
- Rear Insert



# TOYOTA AURIS - Mecaplast



Meter Cluster (4molds)

IP Box (5molds)

Molding Door Trim

Shifting Bezel

# FIAT DOBLO



Outside Mirror (4 molds)



Door Trims (2 molds)

Mud Guards (2 molds)



Fiat Doblo 2006  
Back Trim Parts (3 molds)  
Mud Guards (2 molds)

# RENAULT CLIO B85 -II



Front and Back Bumper Accessories (7 molds)



# RENAULT FLUENCE



Front and Back Bumper Accessories (5 molds)



Seat Trim Parts (8 molds)





# FORD CONNECT



Seat Trims (5 Molds)



# HONDA CIVIC



## 14 MOLDS WERE BUILT

- GARNISHES
- BATTERY COVER
- WHEEL COVER (Mecaplast)
- CONSOLE
- STEERING WHEEL AROUND



# TOYOTA VERSO - Mecaplast



## 15 MOLDS WERE BUILT

- IP PARTS
- METER CLUSTER AND PARTS
- DOOR TRIM
- SPOILER



# RENAULT CLIO



## 39 MOLDS WERE BUILT

- BACK BUMPER ACCESORIES
- FRONT BUMPER ACCESORIES
- SHIELD COVERS
- BATTERY TRAY-SHIELD-COVER (Mecaplast)
- AIR CONDITIONER – 2 PACKAGES( TURKEY AND SPAIN) (Mecaplast)

# DACIA SANDERO STEPWAY - Mecaplast



## 6 MOLDS WERE BUILT

- ROOF RACK PARTS



# TOYOTA COROLLA - Mecaplast



## 26 MOLDS WERE BUILT

- IP PARTS
- METER CLUSTER AND PARTS
- CONSOLE BOX AND PARTS
- COWL LOUVER



# BMW 4.20 (F36 PROJECT) - Mecaplast

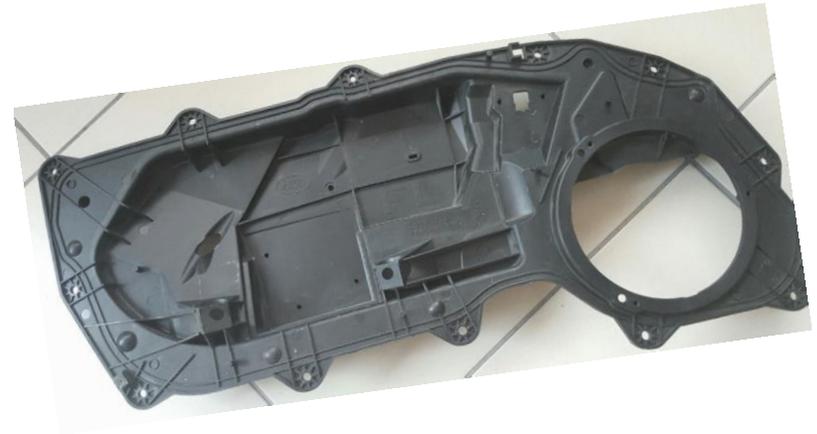


## **3 MOLDS WERE BUILT**

- BAGGAGE PARTS
- Tools exported to Czechia



# LAND ROVER EVOQUE (L538 PROJECT)



## 3 MOLDS WERE BUILT

- FRONT DOOR MODULE(3 DOORS)
- FRONT DOOR MODULE(5 DOORS)
- REAR DOOR MODULE(5 DOORS)



# FORD TOURNEO CUSTOM

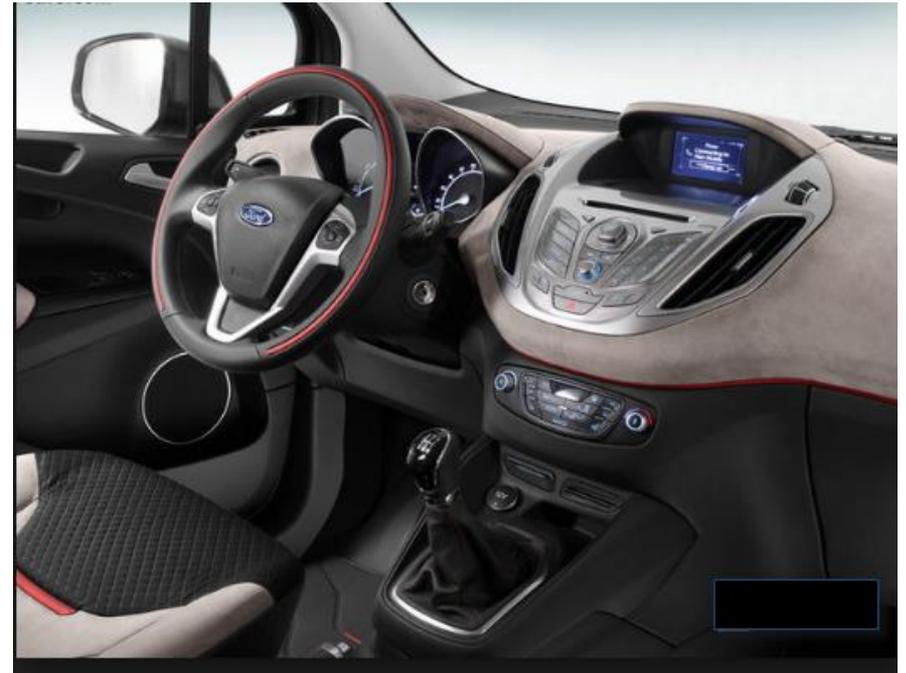


## 18 MOLDS WERE BUILT

- IP PARTS( GEARSHIFTS, INNER/OUTER/PASSENGER FRAMES)
- A PILLARS
- OHC CONSOLES
- TOP ROLL REAR UPPER
- TOP COVER MODIFICATION FOR THE PANTHER ENGINE



# FORD TOURNEO COURIER



## 8 MOLDS WERE BUILT

- BULKHEADS
- TOOLCUT SET
- CMM BEZELS



# FIAT EGEA / TIPO



## 20 MOLDS WERE BUILT

- IP PARTS (FOAM PATCH)
- DOOR PANELS AND PARTS (HANDLES,POCKETS)
- BUMPER ACCESORIES (FOG LAMP COVERS)
- INTERIOR PARTS (PARCEL SHELF, REAR SCUFF)



# More Mold Production Samples



**Fiat Egea / TIPO  
Foam Patch**

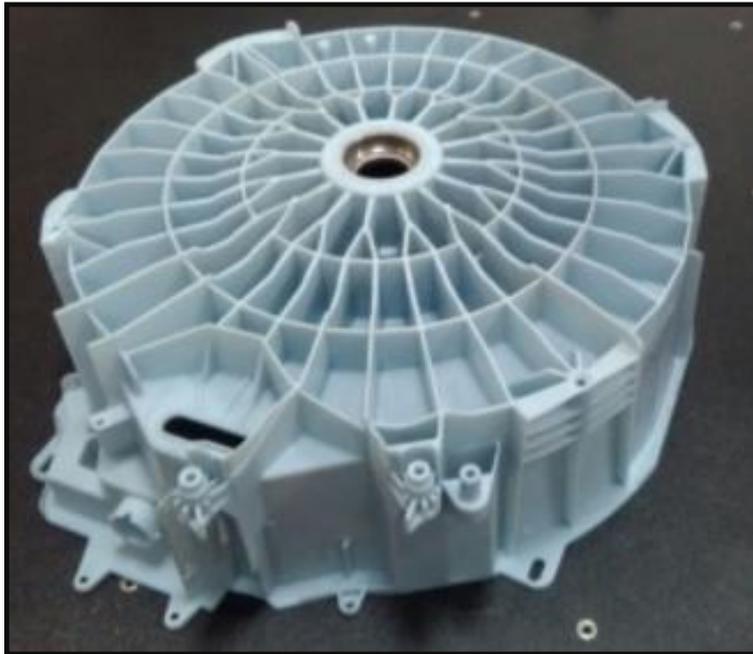


# More Mold Production Samples



**BSH F490 project (Chennai Plant)**

Rear Tub

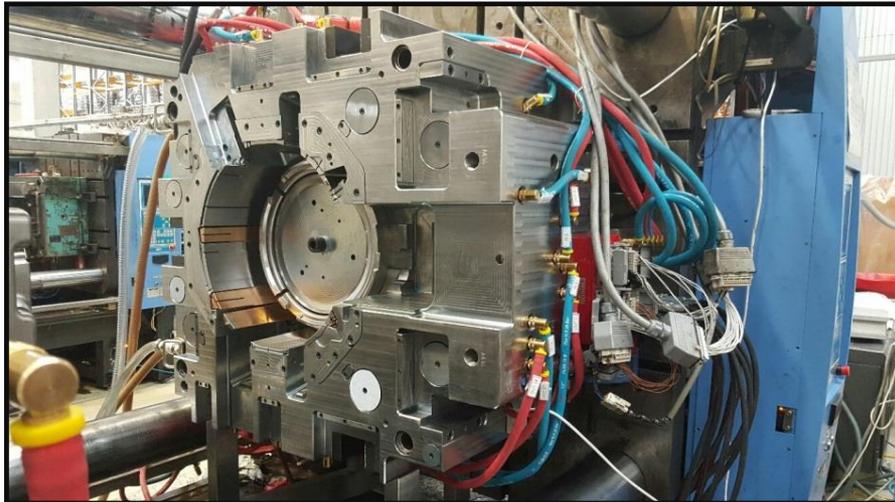


# More Mold Production Samples

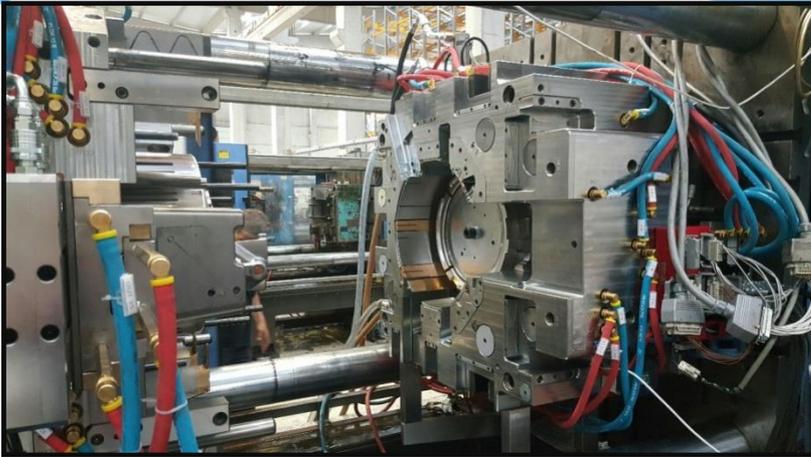


## **BSH F490 Project (Nanjing Plant)**

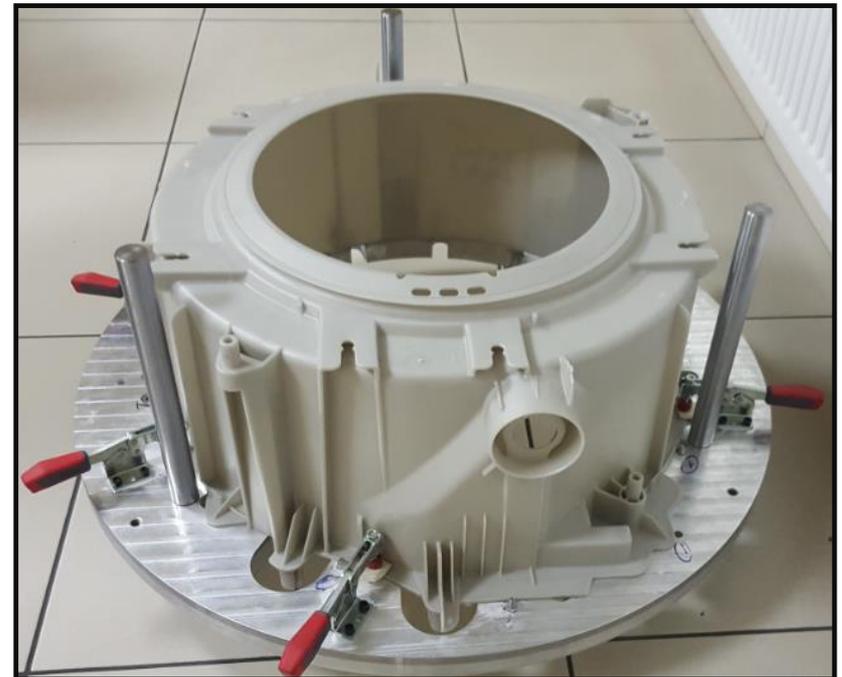
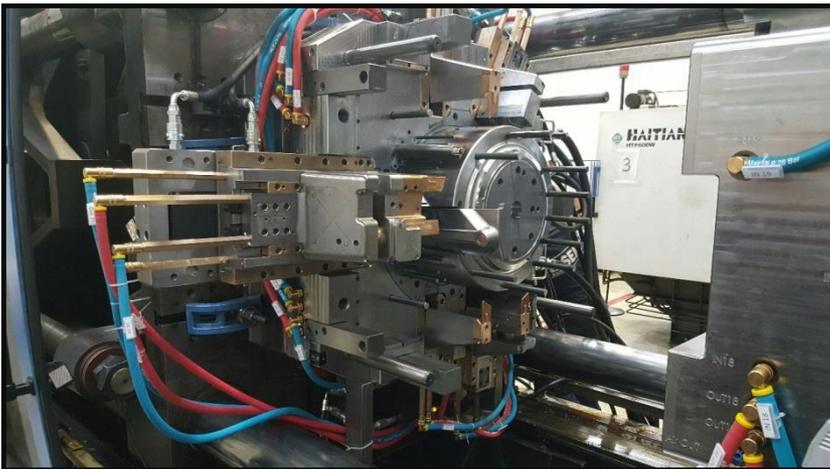
Front Tub  
Rear Tub



# More Mold Production Samples



**BSH F490 project (Çerkezköy Plant)**  
Front Tub



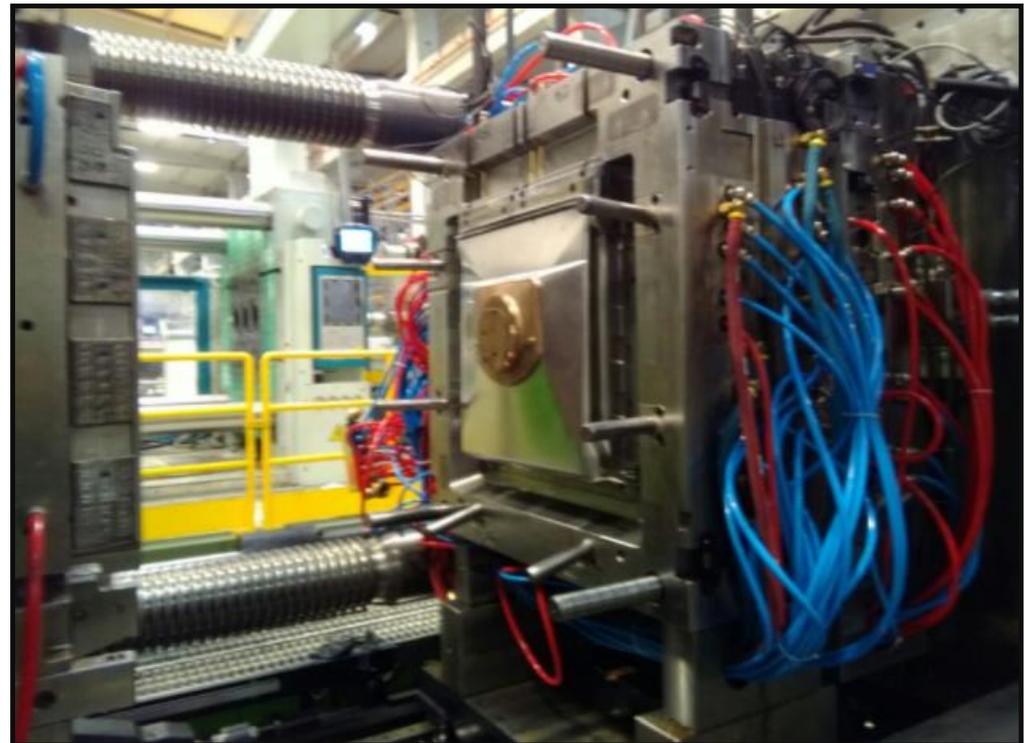
# More Mold Production Samples



## **BSH dishwasher**

Plastic Base

Tandem mould



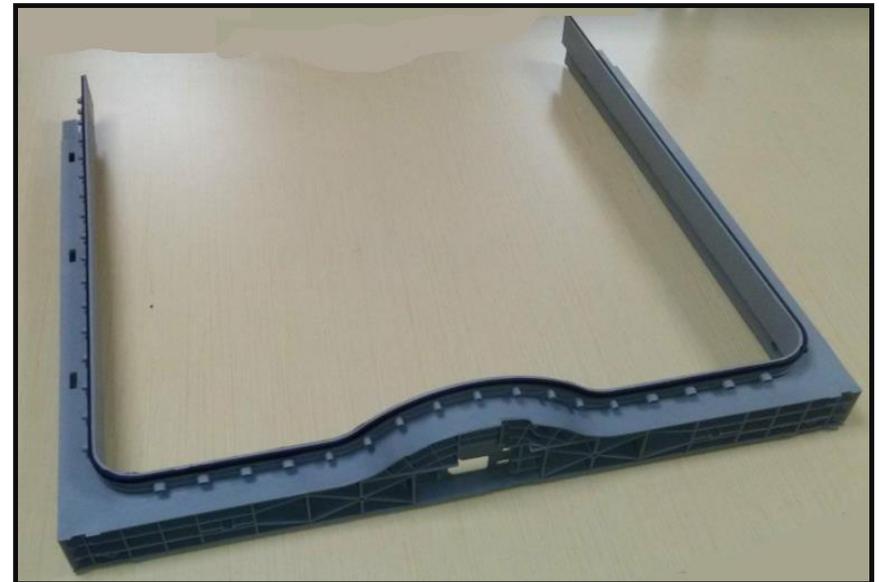
# More Mold Production Samples



## **BSH dishwasher**

Plastic Frame

2K mould

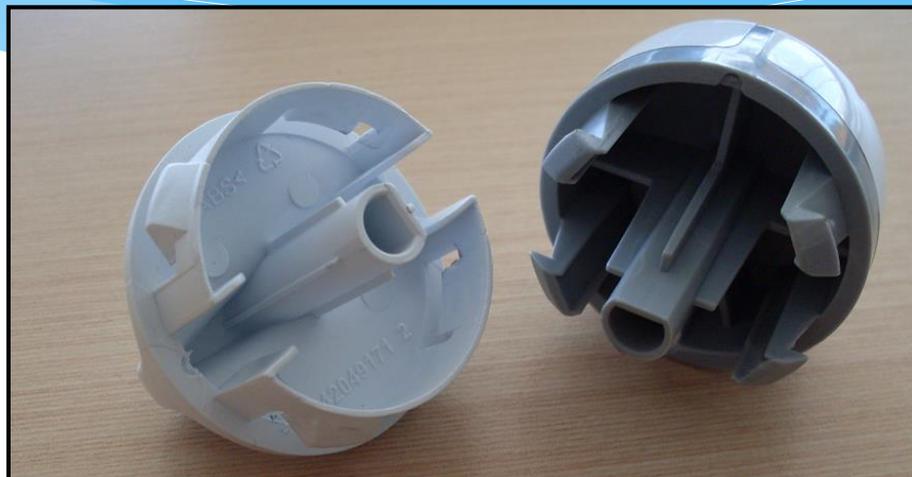


# More Production Samples



**2K seat**

# More Mold Production Samples



# More Mold Production Samples



# More Production Samples



# More Mold Production Samples



# Communication Info



## Sema Plastik Kalıp ve Makine San. ve Tic. Ltd. Şti.

Factory:

Sanayi Mah. Osman Uzun Cad. No: 3/A Veliköy – Çerkezköy / Tekirdağ / TURKEY

Istanbul location:

İOSB Ziya Gökalp mah. Atatürk Bulvarı Mahmut Torun İş Merkezi No: 54 kat 2 Başakşehir / İSTANBUL/  
TURKEY

Telephone

+9 0 282 746 12 73

Fax:

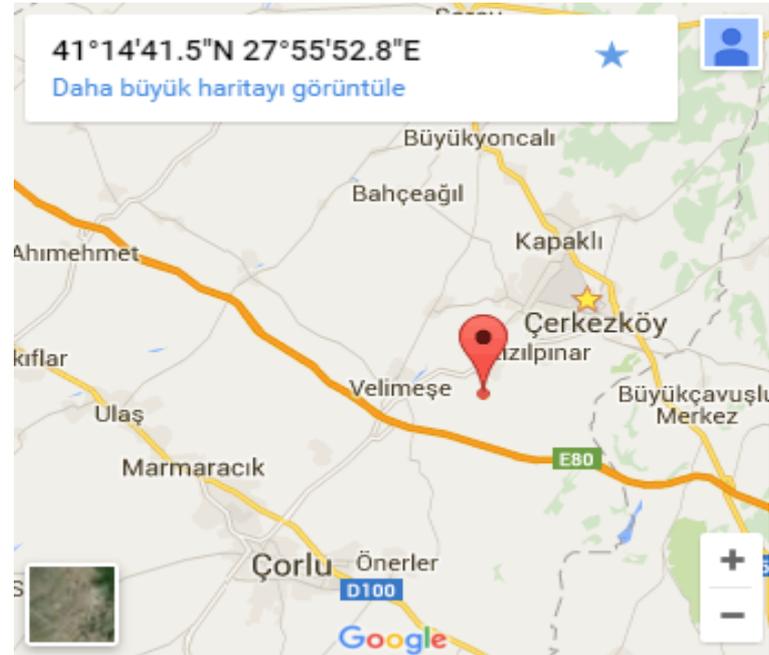
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Thank you for your  
cooperation!

