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q u a n t u m

p l a s t i c s



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## Who is Quantum Plastics...

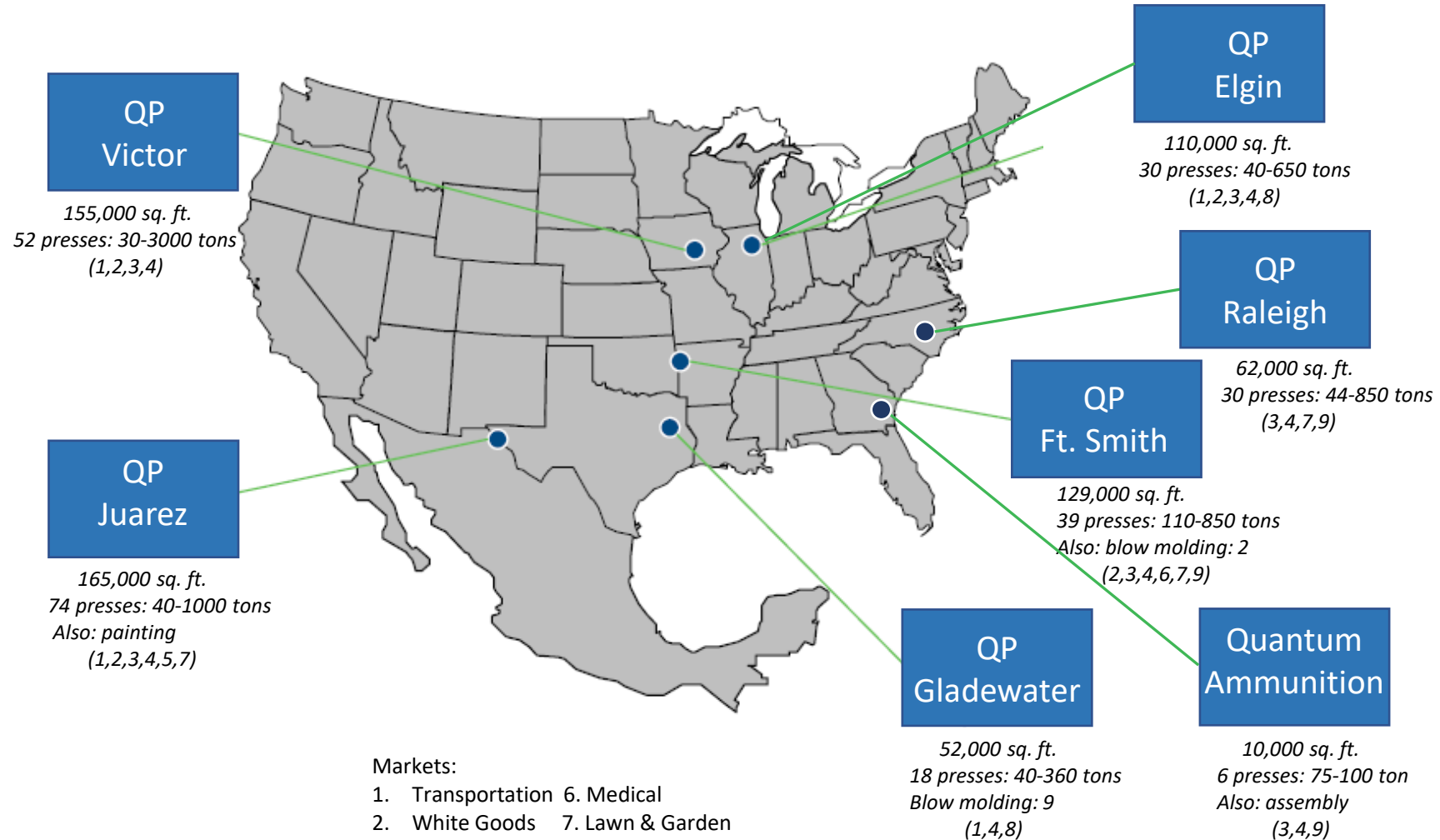
- \$190MM+ ANNUAL REVENUE
- 7 LOCATIONS ACROSS NORTH AMERICA, INCLUDING MEXICO
- OVER 300 MOLDING MACHINES, SIZES FROM 8 TON TO 3,000 TON
- ASSEMBLY, DECORATING, PAINTING AND OTHER VALUE ADDED SERVICES
- GAS ASSIST, INJECTION, OVER MOLD, INSERT, 2-SHOT AND BLOW MOLDING CAPABILITIES
- FULLY ENGINEERED TOOLING SOURCED IN THE UNITED STATES AND ASIA
- ENGINEERING CAPABILITIES – PART AND MOLD DESIGN
- ALL LOCATIONS ARE ISO9001 CERTIFIED

### Certifications Include:



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# Juarez Division

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO/TS 16949 =



COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =





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**JUAREZ  
MEXICO**



**EL PASO, TX  
USA**

**INJECTION MOLDING**

**MOLD DESIGN & CONSTRUCTION**

**DECORATING & ASSEMBLY**





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## About Quantum Plastics Juarez

► **IATF16949, ISO9001:2015, UL Certified**

- Manufacturing Location: Juarez, Mexico
- Warehouse Location: Juarez Mexico & El Paso Texas
- Building Size: 150,000 sq. ft. manufacturing facility
- 500+ Employees
- 77 Molding Presses, ranging from 40 ton – 1,000 ton
- Fully Equipped Tool Room
- Operating 24 hours/day 5 days/week

- Processes include;

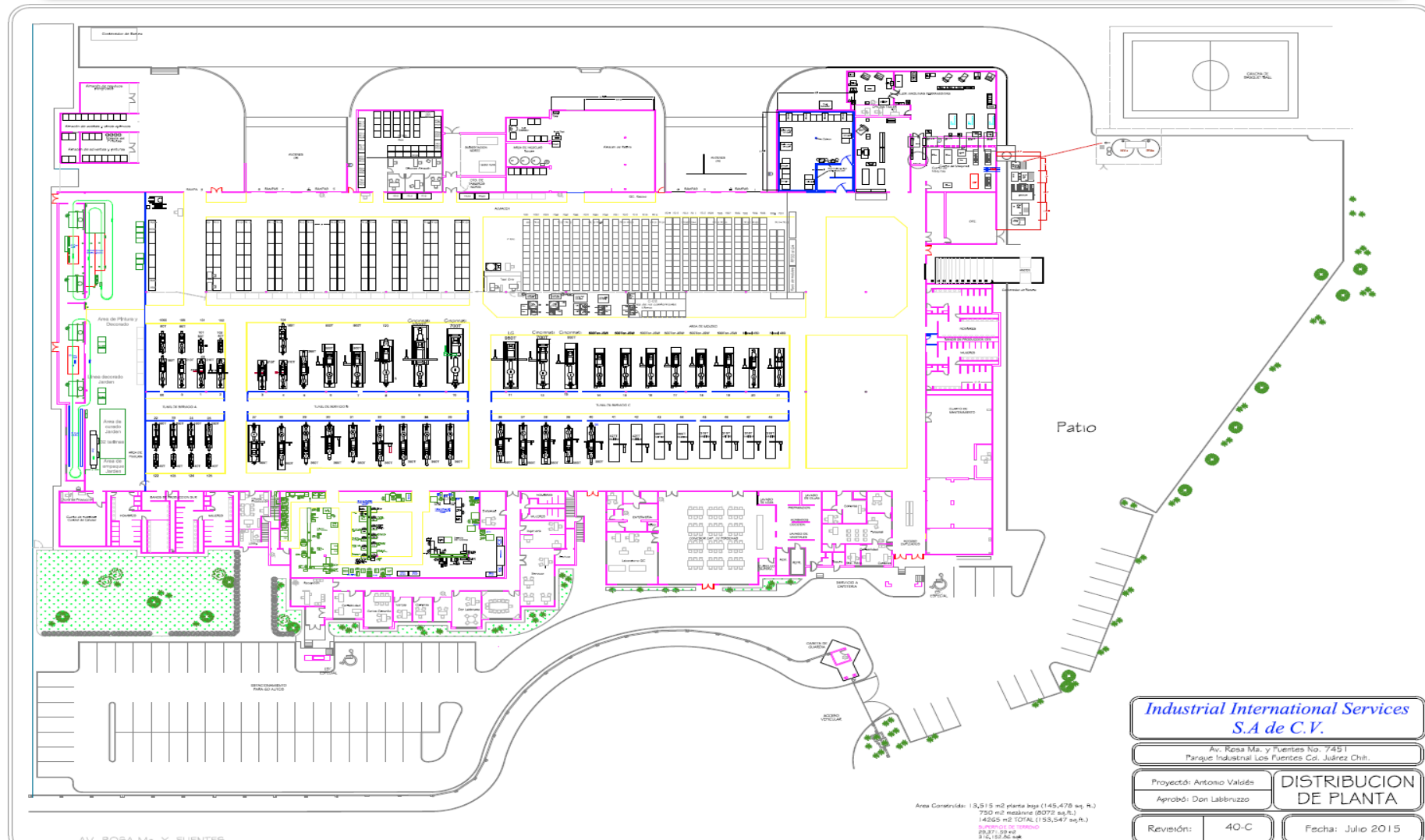
- Thermoplastic injection molding
- over molding
- insert molding,
- gas assist molding,
- New tool design and construction

- Secondary Value Added Operations include;

- Automated Painting
- Silk Screening & Pad Printing
- Vibration Welding
- Hot Stamping
- Mechanical & Multi-Component Assembly
- Hot Plate Weld
- Spin Welding

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AV. ROSA Ma. Y. FUENTES

|  |                               |
|--|-------------------------------|
| <b>Industrial International Services</b><br><b>S.A de C.V.</b>                     |                               |
| Av. Rosa Ma. y Fuentes No. 7451<br>Parque Industrial Los Fuentes Col. Juárez Chih. |                               |
| Proyectó: Antonio Valdez   | <b>DISTRIBUCION DE PLANTA</b> |
| Aprobó: Don Labrizzo   |                               |
| Revisión:  | 40-C                          |
| Fecha: Julio 2015  |                               |



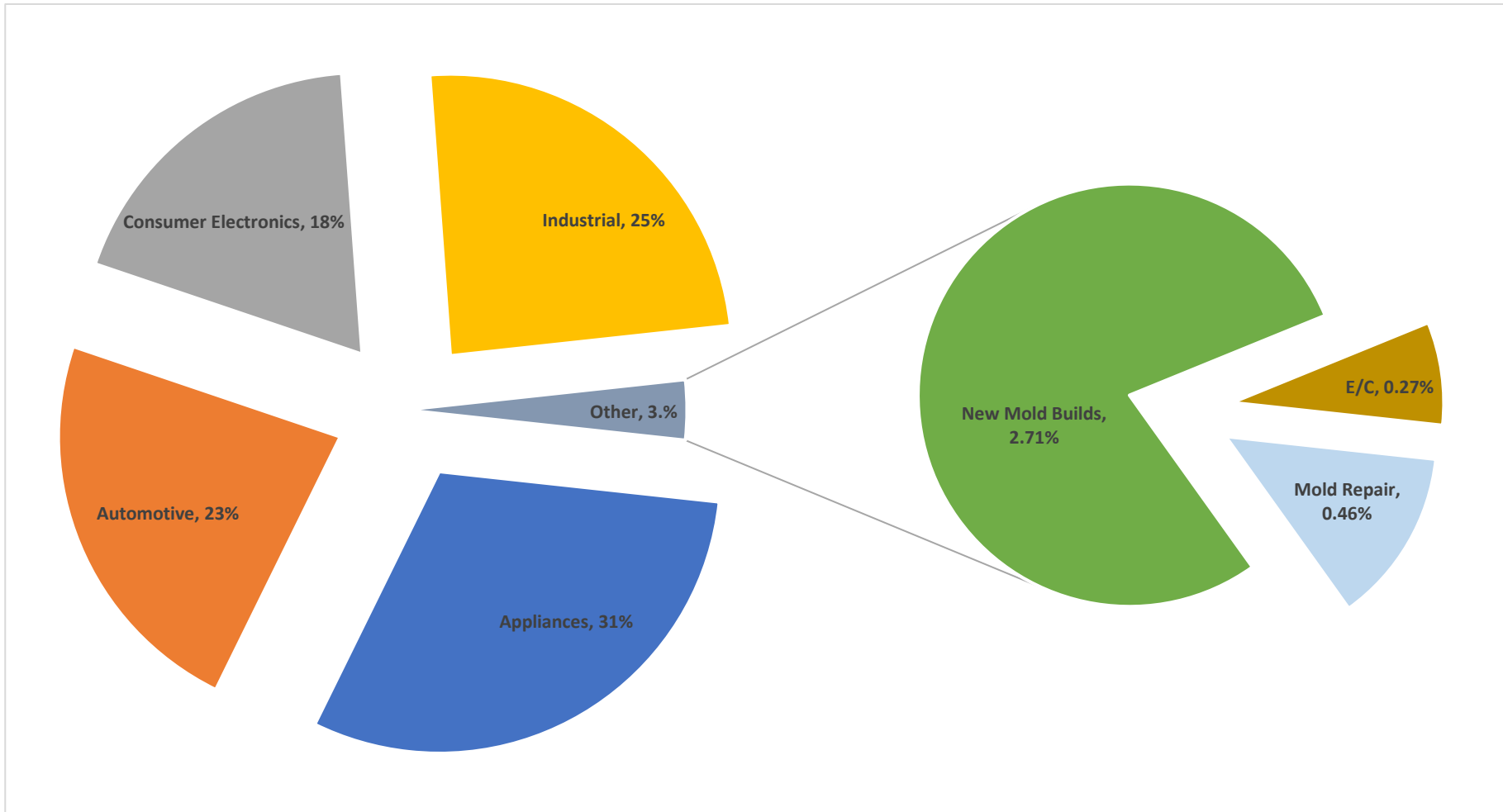
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## MAJOR CUSTOMERS & OEMs...

- Electrolux
- Technicolor
  - Cal-Comp
- Commscope
- Regal Beloit
- Auto-Kabel
  - Mercedes Benz
  - GM
  - Honda
- Siemens
- Toro
- Harman
  - Ford
  - Subaru
  - Toyota
  - Chrysler
- Tristone
  - Ford
- Magna Exteriors
  - General Motors
- Magna Lighting
  - General Motors
- Panasonic
  - Honda
- Honeywell
- Mobotrex
- TE Connectivity
- Jabil
- MGA
- AO Smith
- Tyco



# SALES by Sector



## 77 Horizontal Injection Molding Machines from 40t to 1,000t

| <u>Quantity</u> | <u>Description</u>  |
|-----------------|---|
| 12              | Horizontal Presses <b>40 to 80 Tons</b><br>(Capacity 1.0 – 4.2 oz.)   |
| 16              | Horizontal Presses <b>100 to 200 Tons</b><br>(Capacity 10 – 14 oz.)   |
| 12              | Horizontal Presses <b>200 to 300 Tons</b><br>(Capacity 16 - 25 oz.)   |
| 19              | Horizontal Presses <b>300 to 400 Tons</b><br>(Capacity 25 - 50 oz.)   |
| 5               | Horizontal Presses <b>400 to 500 Tons</b><br>(Capacity 48 - 87 oz.)   |
| 8               | Horizontal Presses <b>500 to 600 Tons</b><br>(Capacity 44 – 88 oz.)   |
| 5               | Horizontal Presses <b>700 to 1000 Tons</b><br>(Capacity 70 - 194 oz.) |



❖ 2 Cranes to load machines.  
5 & 15 Ton

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# Capital Investment

Last 1.5 years

- (1) 1014 ton Haitian
- (2) 674 ton Haitians
- (2) 75 ton Sumitomo Demags
- (1) 160 ton Toshiba
- (2) 100 ton Sumitomo
- FTI Hot Plate Welder
- Carrier 220 ton Chiller
- Global S 9158 DCC CMM





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## 8.5 + MM Lbs of Resin Annually – 41 Color Concentrates

|               |  |               |
|---------------|--|---------------|
| HIPS          | HIPS, IR V-O, Cristal Styrene                                    | 1,200,000 lbs |
| Polypropylene | PP, 20% GF PP, PP Copolymer                                      | 959,000 lbs   |
| ABS           | FR, Cycolac, GP, RS  | 1,861,000 lbs |
| Polycarbonate | Matrixx, Lexan, Lexan HF, ABS, 08FR, ABS Cycoloy, Bayer Makrolon | 2,131,000 lbs |
| PVC           | RPVC, Vinyl Flexible   | 320,000 lbs   |
| Nylon         | Nylon 6/6 GF15, Zytel GF14, Zytel 70G33                          | 133,000 lbs   |
| Acetal        | Acetal Delrin 500, Celcon M-90, Teflon                           | 53,000 lbs    |
| PPE           | Noryl  | 254,000 lbs   |
| PBT           | GE Valox   | 175,000 lbs   |

# QUALITY

## Metrology Capabilities:

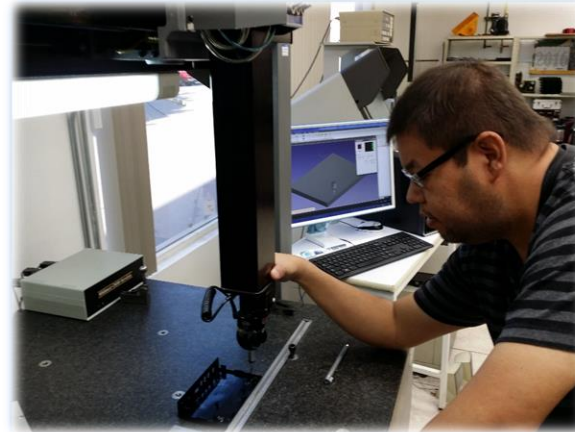
- CMM
- Micro Vu
- Optical Comparator
- Color Spectrometer

## Testing:

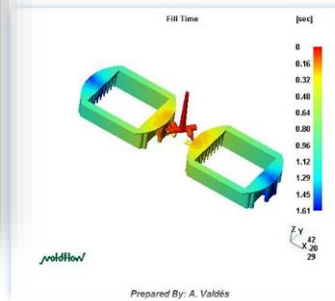
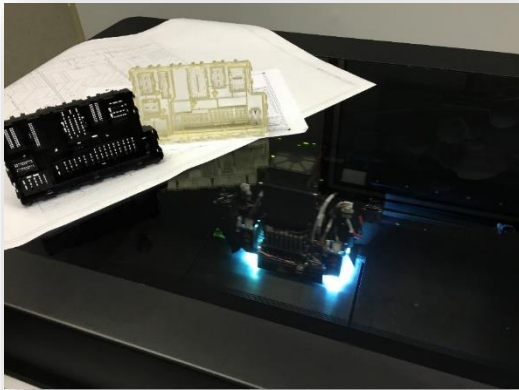
- Impact test
- Paint and pad printing abrasion
- Accelerated life testing

## Part Approval Process:

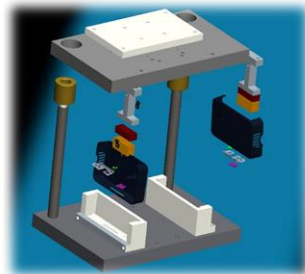
- APQP
- PPAP
- FMEA
- Control Plan
- Capability studies



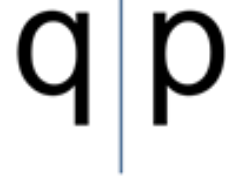
# ENGINEERING: PRODUCT DESIGN & DEVELOPMENT



- Complete Product Development and Design Support
- Computer Aided Design
  - Solid Works 2015
  - ProEngineer Wildfire V3
- Mold Flow analysis to develop gate location and insure part integrity







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## FULLY EQUIPPED TOOL ROOM

- ❖ Injection molds are built in China for all new molds, replacement molds & major engineering changes

Tool maintenance & repair, (PM)

Engineering Changes

24/7 coverage

Precision Surface Grinding

EDM

Fine Cut Machining

Heat Treating

Micro Welding

Polishing



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Heat Transfer Labeling Machines

Pad Printing Machines

Hot Stamping Machines (2) 9 ton

Rotary Silk Screen Machines

UV Curing Ovens

## DECORATING



Overhead & Floor Mounted Lines

Automated Robot Painting

Semi-automated paint booths

Drying/Curing Ovens

Water Based

Solvent Based

Two Part Paint

Base and Clear Coats

EMI/RFI Shielding

Class 'A' Automotive Appearance

## PAINTING



Automotive interior Trim

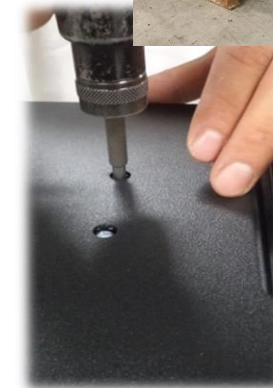
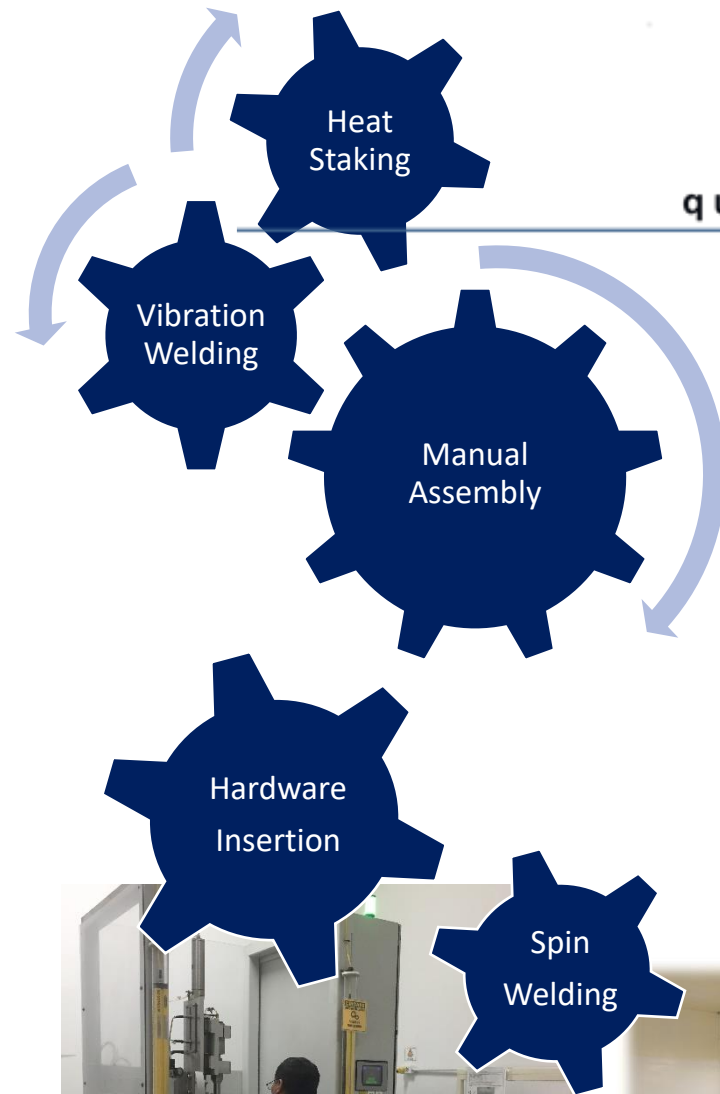




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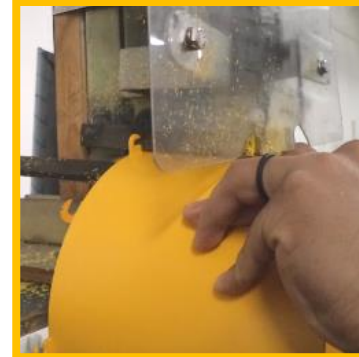
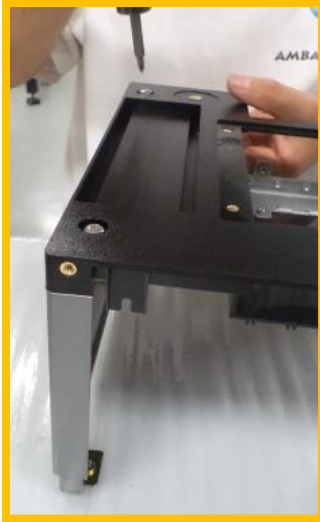
# ASSEMBLY





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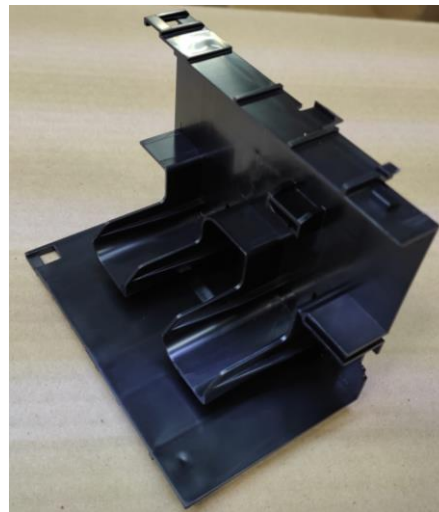
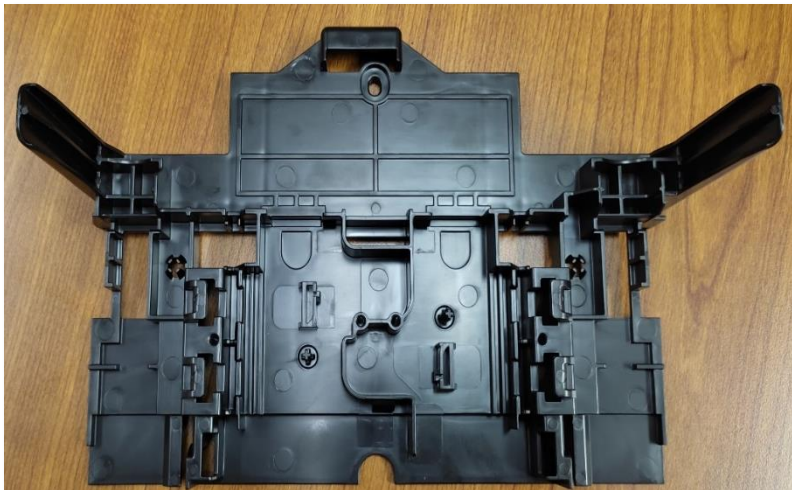
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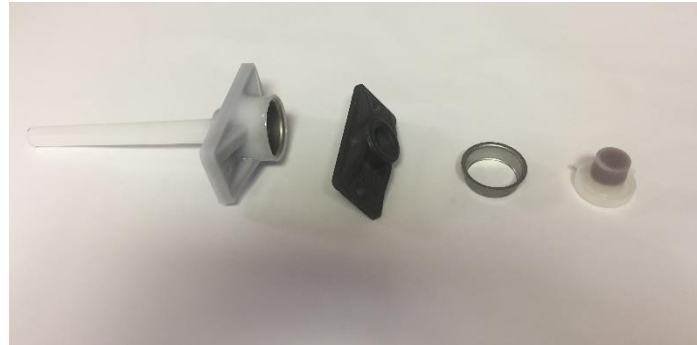
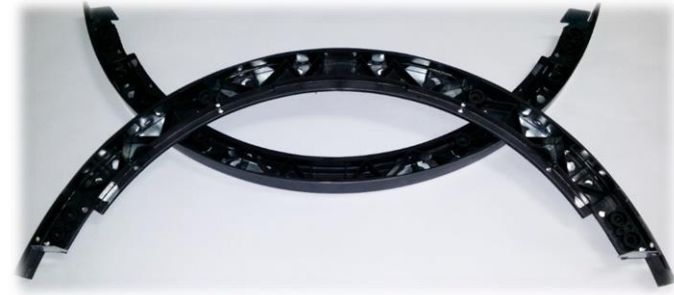
## Automotive & Tele-Communications



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## INSERT/OVER MOLD

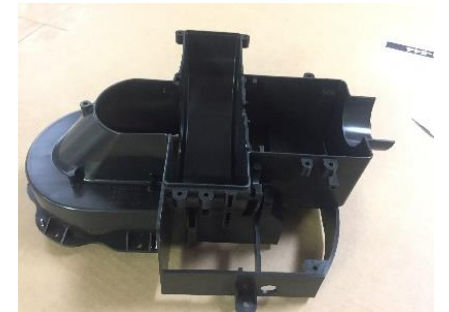
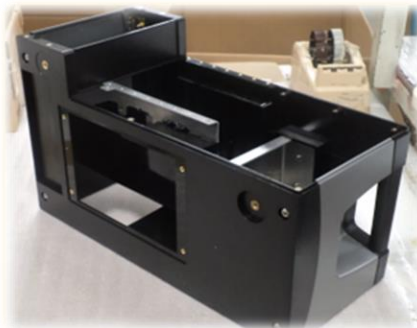
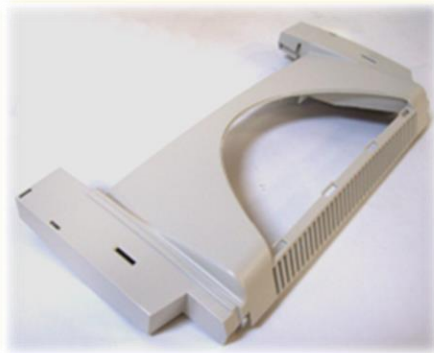
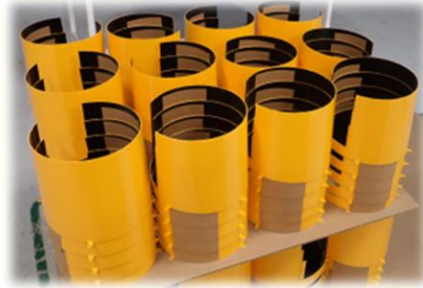
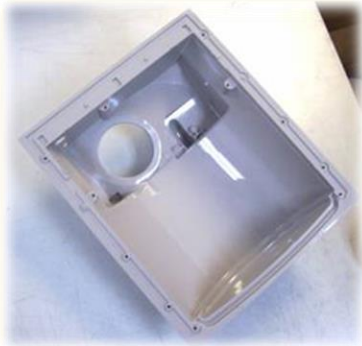




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## FUNCTIONAL COMPONENTS





The logo consists of a large white lowercase 'q' followed by a vertical black line and a large white lowercase 'p'.

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**Thank you for being a Strategic Partner**