



2001 - 2021

20 Years of Advanced Engineering Solutions

Visit us at the following Trade Show:



AES MOLDS is an ENGINEERING and MOLDMAKING organization with extensive know-how and capabilities in the PRODUCT DESIGN Support, ENGINEERING, MANAGEMENT and PRODUCTION of tooling projects for HIGH-END MARKETS and products, FROM CONCEPT TO PRODUCTION.

The combination of the exceptional TECHNICAL BACKGROUND of our ENGINEERING TEAM combined with STATE-OF-THE-ART TECHNOLOGY, ensures that the REQUIREMENTS from our customers are fully ACCOMPLISHED. With most of our customers we have PARTNERSHIPS FOR LIFE ...!

- Foundation year: **2001**
- Offices: **Portugal and USA**
- Manufacturing area: **Portugal (approx. 6,000 sq/m)**
- Internal Team: **55 professionals avg in 2021**
- Sales in 2020: AES Group: **6,9 M€**
- Member of CEFAMOL - Portuguese Tooling Association
- Member of CENTIMFE - Portuguese Tooling Technology Center
- Member of AFIA - Portuguese Manufacturers Association for the Automotive Industry
- ISO 9001:2015 certified by TÜV RHEINLAND
- AES DUNS NR. 33-709-8482



OUR MOLDS ARE RUNNING IN:

Europe:

- Germany
- Portugal
- UK
- France
- Switzerland
- Spain
- Czech Republic
- Poland
- Sweden

America:

- USA
- Canada
- Mexico
- Brazil
- Argentina

Asia:

- China
- Singapore
- Malasia

Others:

- Egypt
- Tunisia
- Angola
- South Africa





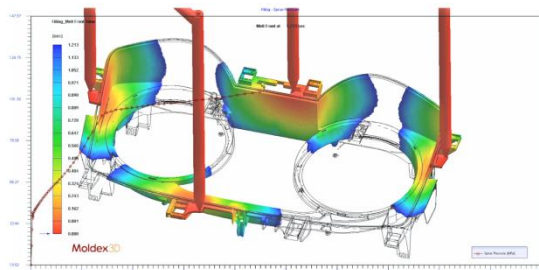
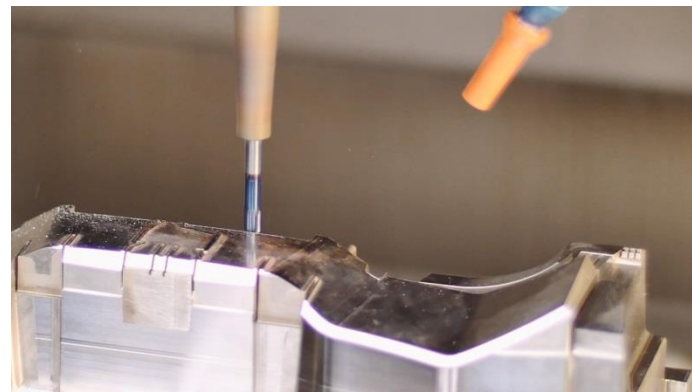
**GLOBAL PROJECT
MANAGEMENT**



**PRODUCT DEVELOPMENT
SUPPORT**



**MOLD
ENGINEERING**



**MOLD
MANUFACTURING**



**MOLD
VALIDATION**



**PRE-SERIES
PRODUCTION**

CUSTOMER

AES MOLDES

ENGINEERING - Design Engineering; Tool Engineering; Project Management

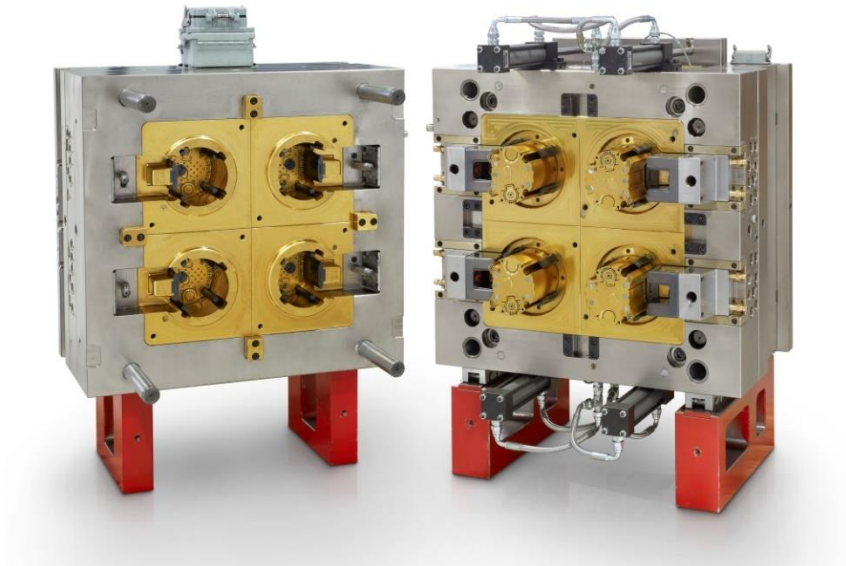
MOLD PRODUCTION

MOLD VALIDATION – Mold sampling, Injection Process development,
Metrology

PRE SERIES PRODUCTION RUNS

CUSTOMER

- 2K MOLDS (TWO SHOT)
- IMD/IML/IMF (In-Mold Decoration)
- STACK MOLDS
- INJECTION COMPRESSION
- MULTI CAVITY MOLDS
- MOLDS FOR MULTIPLE PART VERSIONS
- INSERT MOLDS
- MOLDS FOR SPECIAL RESINS
- AUTOMATIC UNSCREWING MOLDS
- 3 PLATE MOLDS





AUTOMOTIVE

Instrument Clusters, Fuel Tanks,
Glove Boxes, IP Bezels, Beltline parts,
Armrest, Central Consoles,
Motor Area Parts and others



CONSUMER

Water Filters, Air Filters
and others



PACKAGING

Packaging Caps and Closures
Printer Toner Packaging and others



ELECTRONIC

Cellphones, Automotive Sensor
Parts and others



HEALTH CARE

Diagnostic Equipment
Apnea Treatment and others



INDUSTRIAL

Pipings and Fittings
and others

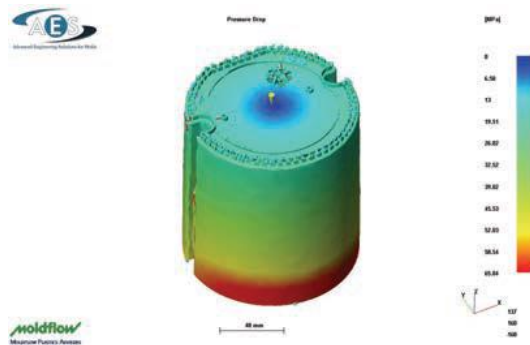
SOME OF OUR PARTNERS IN TECHNOLOGY





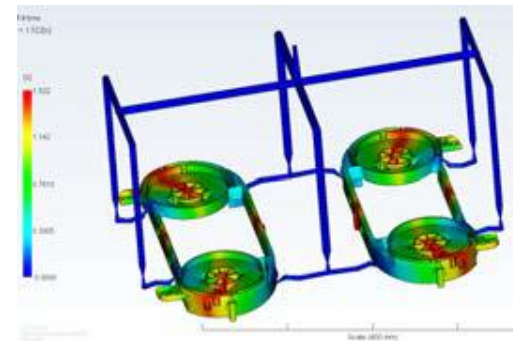
Autodesk Simulation Moldflow Adviser Ultimate 2019

- Mold Advisor
- Performance Advisor
- Cooling Circuit Advisor



Moldex Professional (BLM Technology)

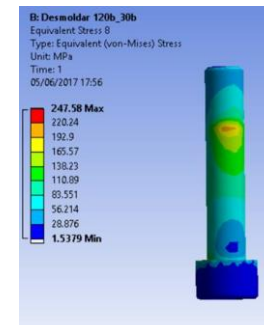
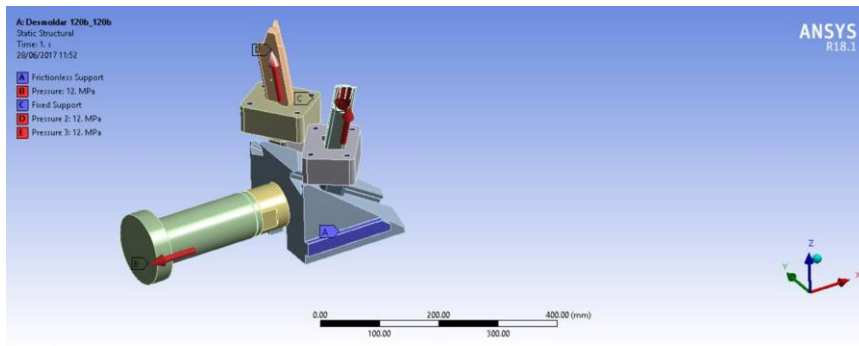
- Fill Packing
- Cooling
- Warp
- Multiple Component Molding (MCM) Fiber orientation





Ansys Mechanical Pro 18.1

ANSYS Mechanical Pro is a finite element analysis (FEA) solution that provides robust general-purpose stress and fatigue simulations to solve complex structural engineering problems and make better and faster design decisions. This technology allows us to study and predict stress and efforts our molds are subjected to during their production life.

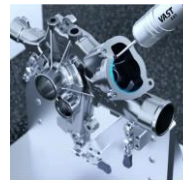
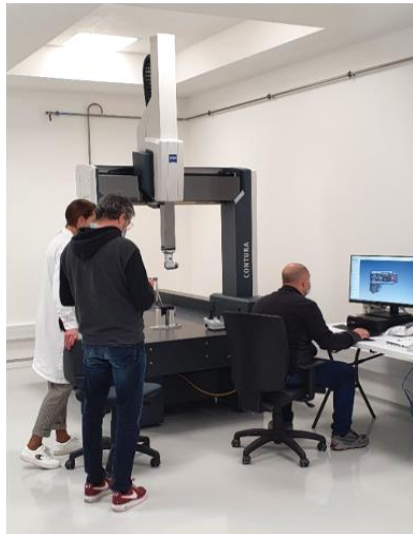


Measurement Services:

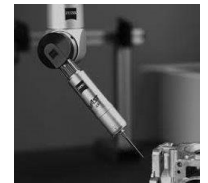
- FAI / ISIR Inspections
- Studies Process Validation
- CPK Studies
- Gage R&R Studies
- Fixtures and Gauges Validation
- 3D Scanning
- Reverse Engineering

CMM – Coordinate Measuring Machines

ZEISS CONTURA G2



ZEISS SPECTRUM



Multi-Sensor Video Metrology System

OGP Sprint MVP 300

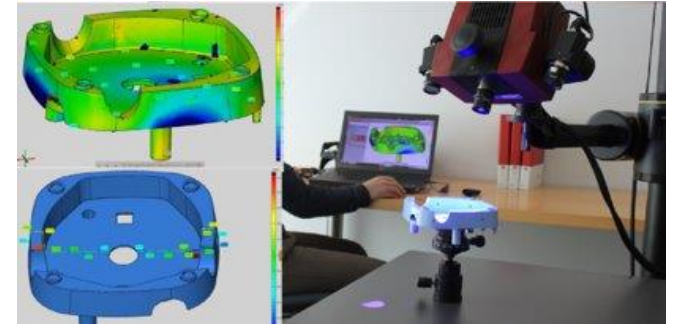


gom
a ZEISS company



3D Scanning Measuring Machine

GOM ATOS Compact Scan 5M



Injection Processing Monitor System from



and



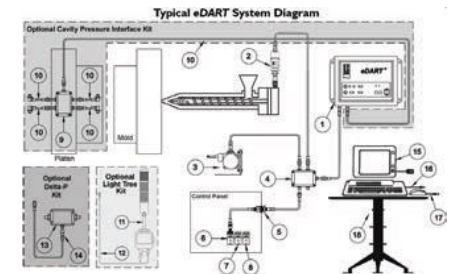
We want our molds to be shipped to our customers “production ready”.

Our know-how in design engineering, tool manufacturing, injection processing combined with the pressure and temperature technologies, guarantees that this objective is accomplished.

We work with most of the pressure sensors suppliers in the market. Internally we have the monitoring system from KISTLER -> COMO and RJG -> eDART™.

Once the process is developed and the “pressure curve”, determined, the mold is “GROOMED” to that fixed injection process.

Once you receive the mold at your facilities, dial in the “process curve” and your parts should be ready to start production.



OUR TECHNOLOGIES – INJECTION MOLDING

Capabilities:

- Mold Samples
- Limited Production Runs
- End of Arm Development
- Automation Development
- Product Assembly
- End Product Storage

ENGEL – Electric Machines



Product Storage - FIFO



Storage – Raw Material





AIR AND WATER FILTRATION

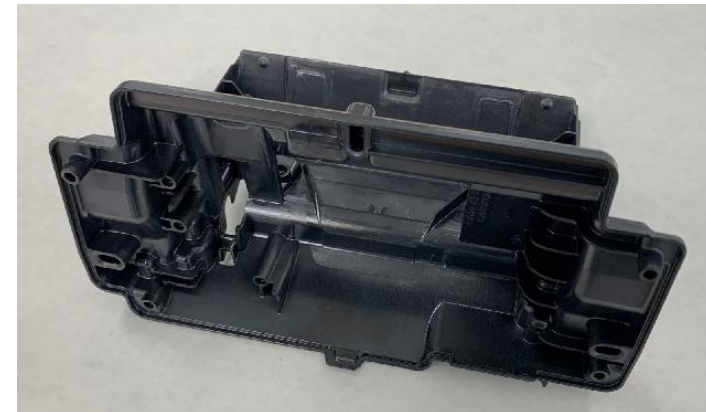
Front and Rear Bezels

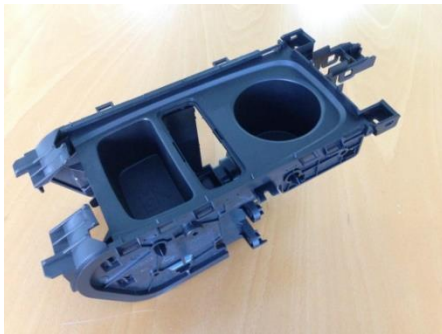


APPLIANCES AND PACKAGING

Refrigerated Drawers, Shelves, Bins



























- **FACTORY IN PORTUGAL AND OFFICES IN THE USA** FOR COMMERCIAL AND TECHNICAL SUPPORT
- **NO LANGUAGE / COMMUNICATION BREAKDOWN**
- EXTENSIVE **EXPERIENCE** WITH THE **US TOOLING REQUIREMENTS** (over 30 years)
- EXTENSIVE **TECHNICAL KNOW-HOW** AND **STATE-OF-THE-ART TECHNOLOGY**, BOTH IN ENGINEERING AND IN MANUFACTURING
- **SCIENTIFIC** INJECTION PROCESS **DEVELOPMENT**
- CULTURE OF **QUALITY**, PROFESSIONALISM AND **TRANSPARENCY**
- A **PARTNER** FOR MANY YEARS
- FEEL FREE TO ASK US FOR REFERENCES

Visit our website www.aesmolds.com and take a look in our short video presentation https://www.youtube.com/watch?v=iDTQhq6_A8k

Thank you ...!

AES MOLDES, LDA
Rua Industrial da Barosa, Carreira de Água
2400-016 Leiria, PORTUGAL
+ 351 244 574870

AES MOLDS, Inc.
1950 W. Corporate Way, PMB 23336
Anaheim - CA 92801 - USA
+1 401 617 0243

AES MANUFACTURING, LDA
Rua Industrial da Barosa, Carreira de Água
2400-016 Leiria, PORTUGAL
+ 351 244 574870