Profesyonel Design

BURSA
About Prodiz:

• Founded in Bursa-Türkiye, in May-2012.
• 2 founders and 5 designers, totally 7 well educated staff.
• More than 12 years experience in Die Production Industry.
• Founders worked in OEM (Tofaş, Fiat Turkey) about 6 years as Method and Die Design Responsible, 1 year Project Management.
• Have enough experience outer and inner panel parts, UHSS parts.
• Use Autoform for simulation and Catia V5 for design.
• Have references from OEMs and Suppliers in Turkey and some engineering offices from Italy and Germany.
• Our language skills are English and Italian, in addition externally German support.
Organisation Chart:

Managing Director

- Die Design Administrator
  - Technical Stuff 1
  - Technical Stuff 2
  - Technical Stuff 3
  - Technical Stuff 4
  - Technical Stuff 5

- Process Design Administrator
  - Technical Stuff 1

- Customer Relationship

---

Pro diz Engineering
Service Issues:

- Feasibility Analysis
- 3D & 2D Process (Method) Design
- Springback Analysis and Compensation
- Die Design (Tandem, Transfer, Progressive)
- Specialized Machine Design and Mechanical Solutions
- Project Management
- Training and Consultancy
In the early development phase, we can evaluate the feasibility analysis of sheet metal parts. Here we are able to cover all the necessary process steps such as Operations Planning for preliminary costing and simulation methods for the planning tool design.
With simulation and process design, we can specify the number of necessary forming stages and the required pressing forces. We can take actions during process design for the potential risk and for a robust production.
3D & 2D Process Design
Full Cycle Simulations

- Drawing
- Springback
- Cam Flange
- Flange Down
- Trimming
Springback Compensations

Quality Control Plan

Realized Stamping Results

Results of Compensated Part in Simulation.
Transfer Die Projects

4 Operations Transfer Die
~3700 mm
Transfer Die Projects

Vibroacoustic Lower Cap / 6 Op. Transfer Die
~ 3600 mm
Transfer Die Projects

5 Operations Transfer Dies
~ 4700 mm
Transfer Die Projects

5 Operations Transfer Dies
Robotic Line Design Projects

Sliding Door Die Designs
Robotic Line Design Projects

Inner Door Die Designs
~3800 mm
Robotic Line Design Projects

Outer Hood Die Designs
Progressive Die Projects

Vibroacoustic Upper Cap / Progressive Die
14 Steps / 4000mm
Progressive Die Projects

Progressive Die / 12 Steps / ~3200 mm
Process / Method Design

C Pillar Process and Simulations

<table>
<thead>
<tr>
<th>OP05</th>
<th>OP10</th>
<th>OP20</th>
<th>OP30</th>
<th>OP40</th>
</tr>
</thead>
</table>

Pro diz Engineering
Process / Method Design

Sliding Door Outer and Inner Process Design
Heat Shields Dies

Aluminium Heat Shields Dies
Hemming Bed Designs

FORD B460 / Hemming Bed Design
LOCATION

CONTACTS:

- Halim YILMAZ / Managing Director: halim.yilmaz@prodiz.com.tr
- Levent GÖVER / Technical Manager: levent.gover@prodiz.com.tr
REFERENCE

Ford
COŞKUNÖZ - METAL FORM
Paye Makina
elringklinger
MSI - Mechatronics System Integrator
Romak Makina
ONS
KAS Otomotiv
Sahince
Nuova TEKNOCAM
THANK YOU