From Idea to Mold

InfraTech

Mold Development Process

Our process is structured to ensure full control, maximum efficiency, and high quality at every stage.

- **Your inquiry**
  The client provides us with basic technical requirements and product data for which the mold is being developed.
- **Client Meeting**
  A detailed analysis of the initial requirements – we define functional goals, expectations, and technical guidelines.
- **Technical Agreement**
  Together with the client, we define the key tool parameters: Number of cavities, material used for the product, injection system, type and specifications of the machine on which the tool will be used.
- **First Mold Design Version**
  We create the initial mold design and present it to the client for review.
- **Meeting and Discussion**
  Joint review of the first version – suggestions, changes, and comments are collected.
- **Design Revision**
  We implement the agreed changes and prepare the updated version of the design.
- **Mold Flow Simulation**
  We run material flow simulation through the tool to optimize filling, cooling, and ejection.
- **Design Approval**
  The client approves the final design, after which we proceed to the final stages.
- **Preparation of Final Documentation**
  We deliver complete technical documentation, ready for tool manufacturing.
- **Finalization of documentation**
  We prepare the complete technical documentation, including drawings, specifications, and other relevant data needed for manufacturing and product implementation.
- **Mold Maintenance Plan**
  We develop a recommended maintenance plan to ensure a long service life and stable mold performance.
- **Tool Manufacturing**
  In addition to design, we can also offer complete tool manufacturing in cooperation with our trusted partners. We manage every step – from design to final machining – ensuring a production-ready tool with guaranteed quality and precision.
- **Tool Inspection and Control**
  If your mold is being manufactured elsewhere, we can provide a professional review of the design and finished mold – helping you avoid errors, delays, and additional costs. Using the ATOS Triple Scan / ATOS 5 3D scanning systems, we offer advanced measurement and detailed analysis: Dimensional accuracy check of the mold and product, 3D scanning and comparison with the CAD model, deviation reports and correction recommendations.

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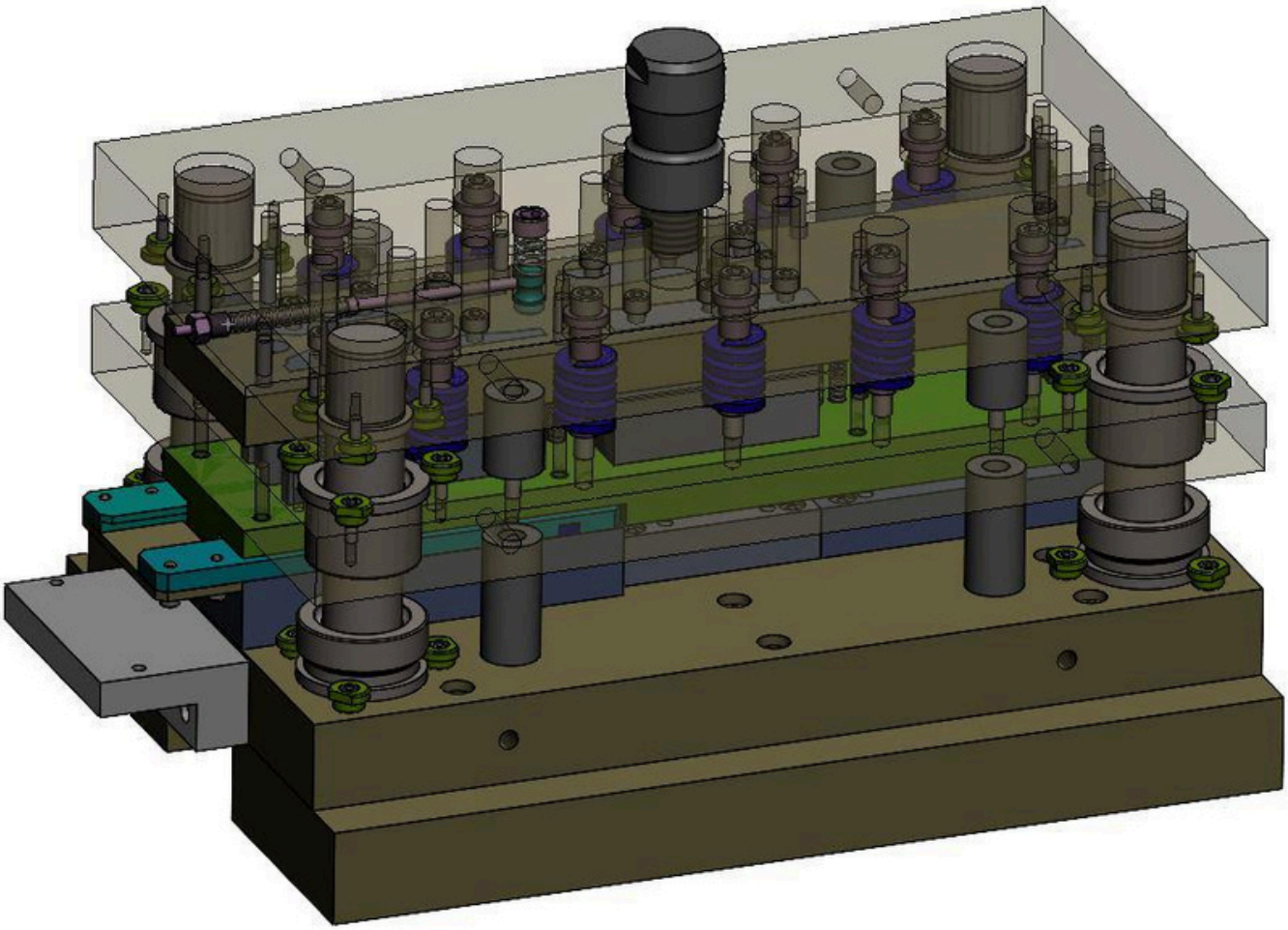

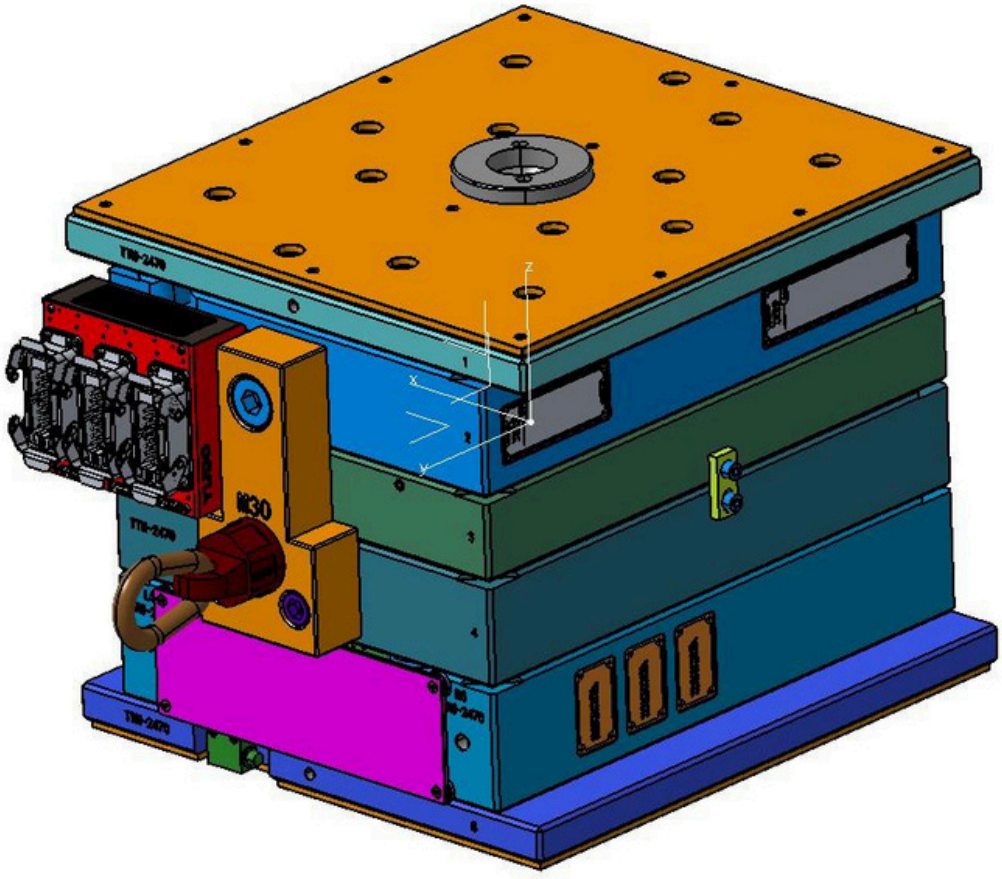

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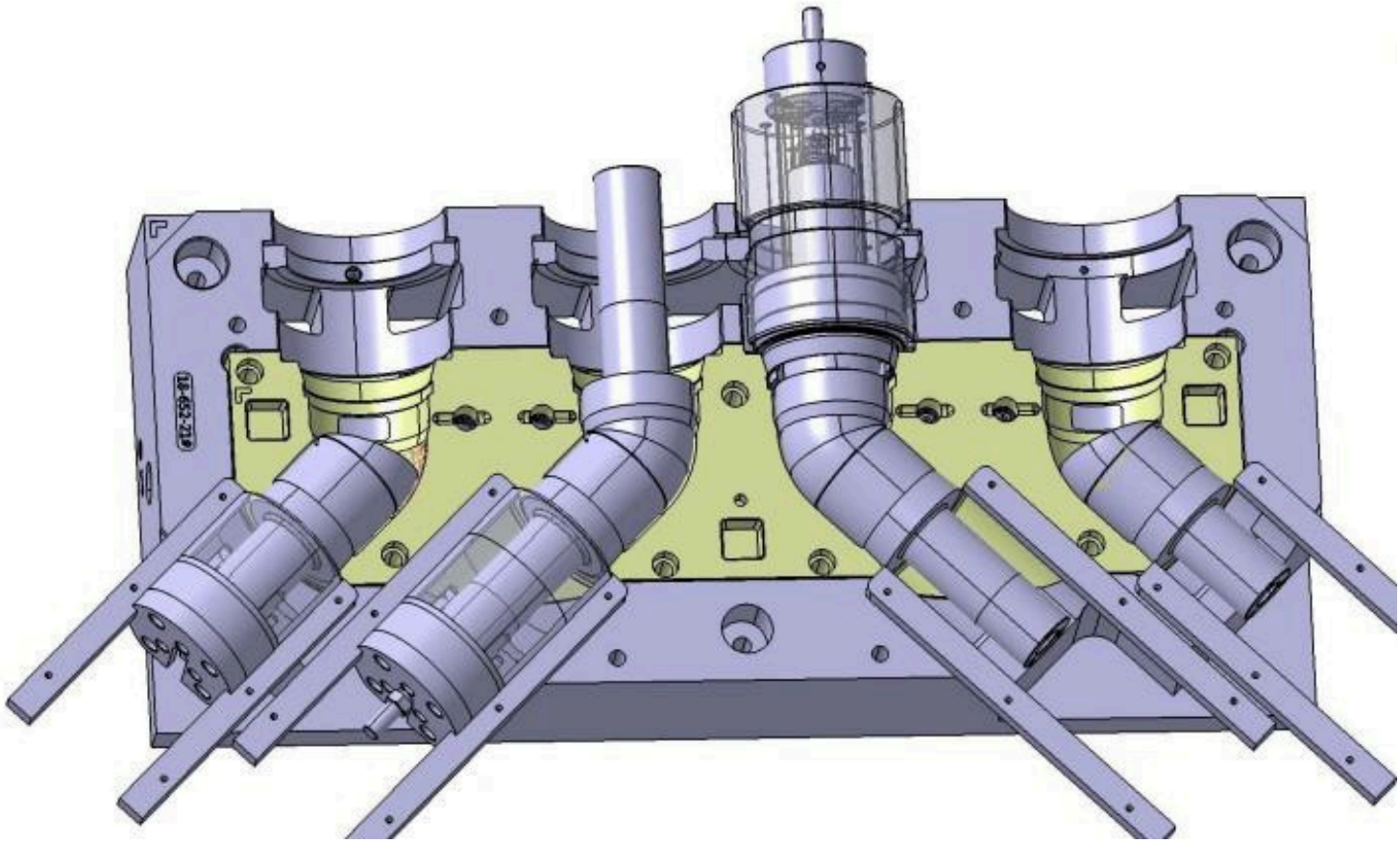

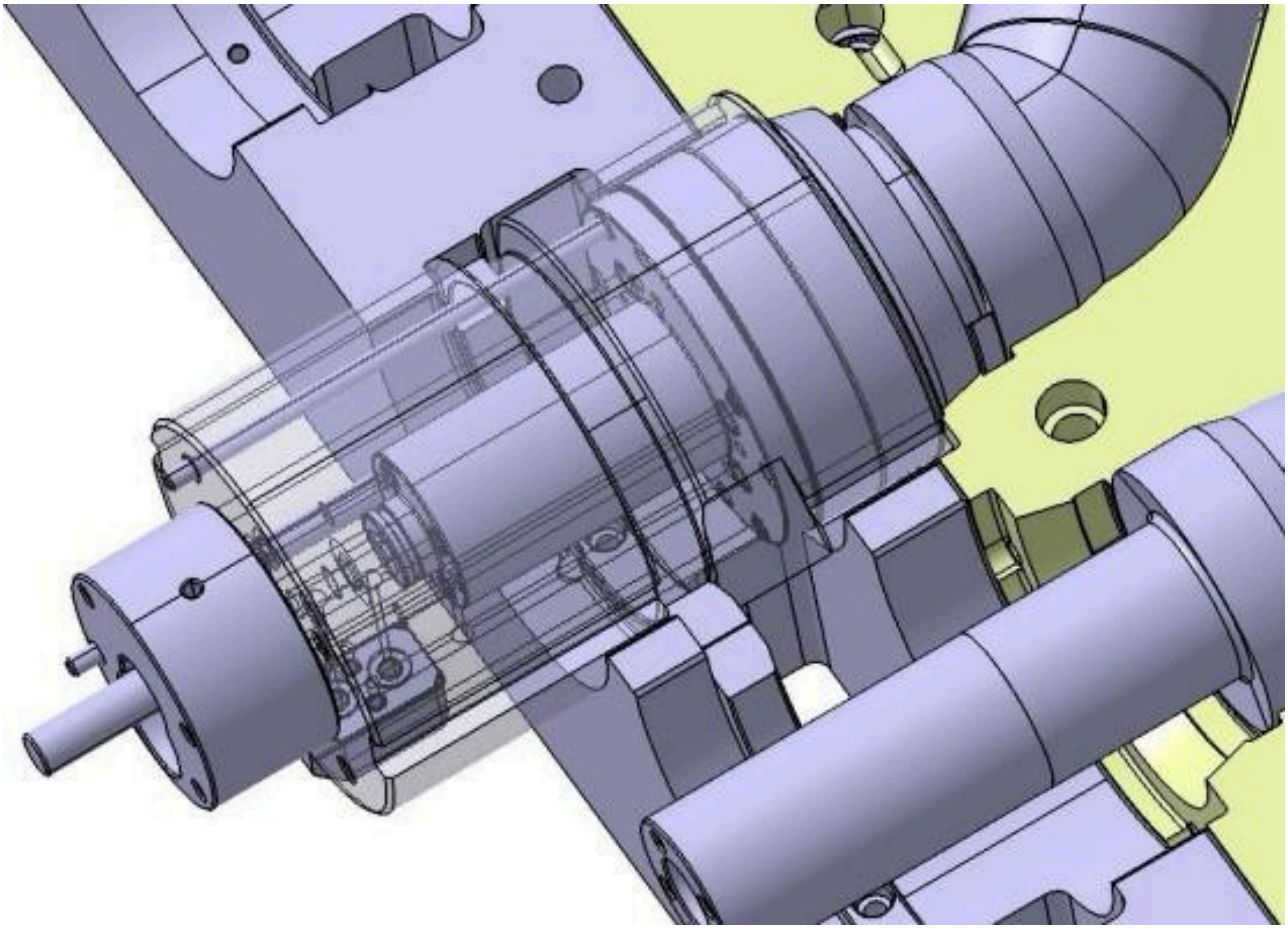

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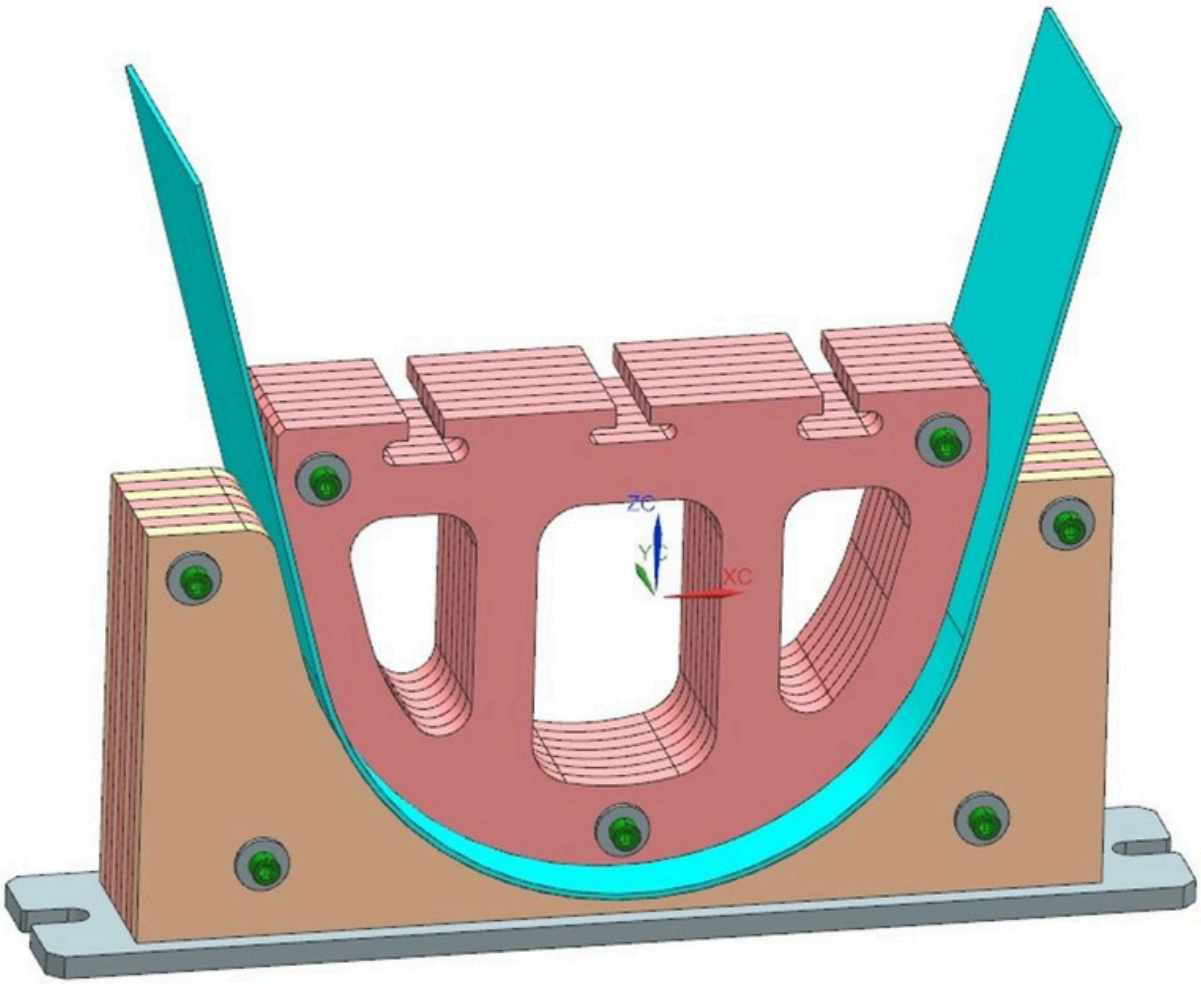
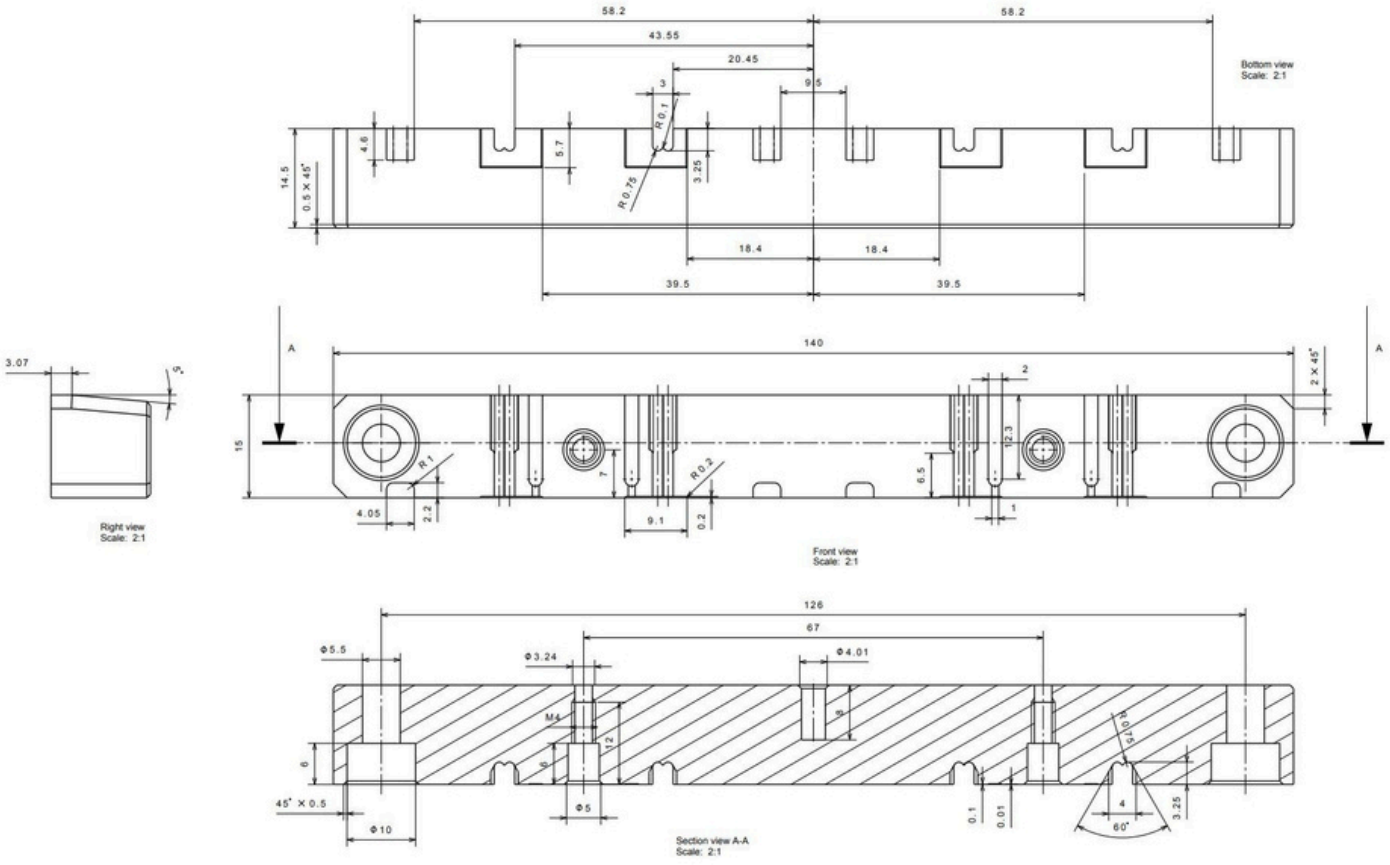

ZC
YC
XC


58.2
43.55
20.45
58.2
3
9.5
R0.1
4.6
5.7
14.5
0.5 X 45°
R0.75
3.25
18.4
18.4
39.5
39.5
Bottom view
Scale: 2:1
3.07
5°
Right view
Scale: 2:1
A
140
2 X 45°
15
R1
4.05
2.2
7
R0.2
9.1
0.2
2
12.3
6.5
1
Front view
Scale: 2:1
126
67
Φ5.5
Φ3.24
Φ4.01
M4
12
6
45° X 0.5
Φ10
Φ5
0.1
0.01
R10.5
4
60°
3.25
Section view A-A
Scale: 2:1

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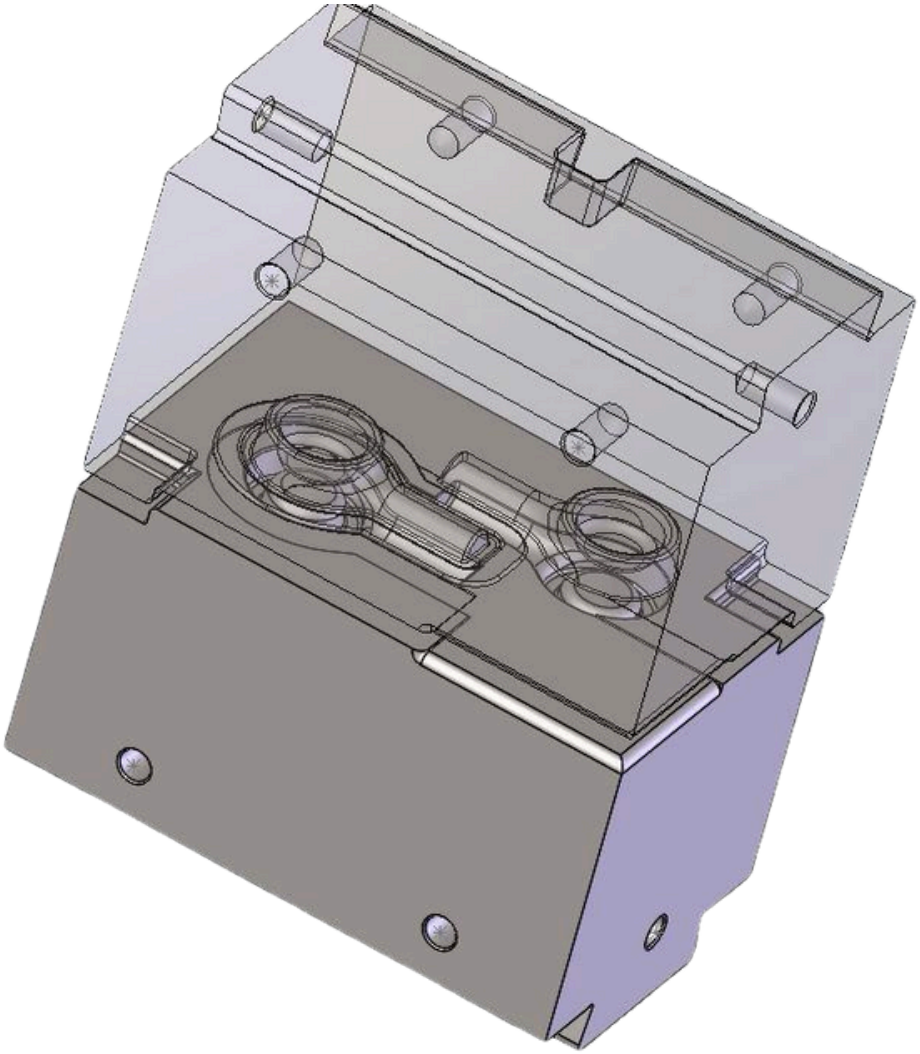

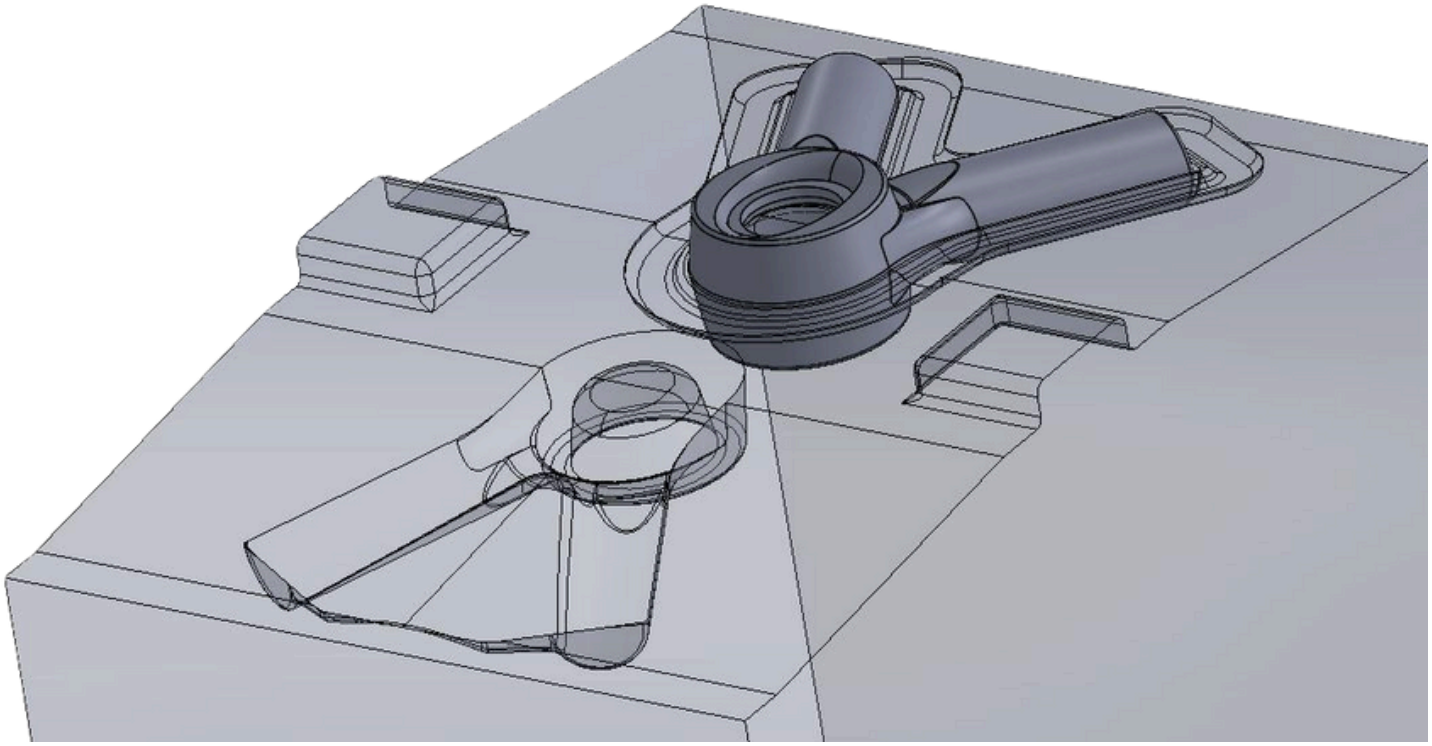

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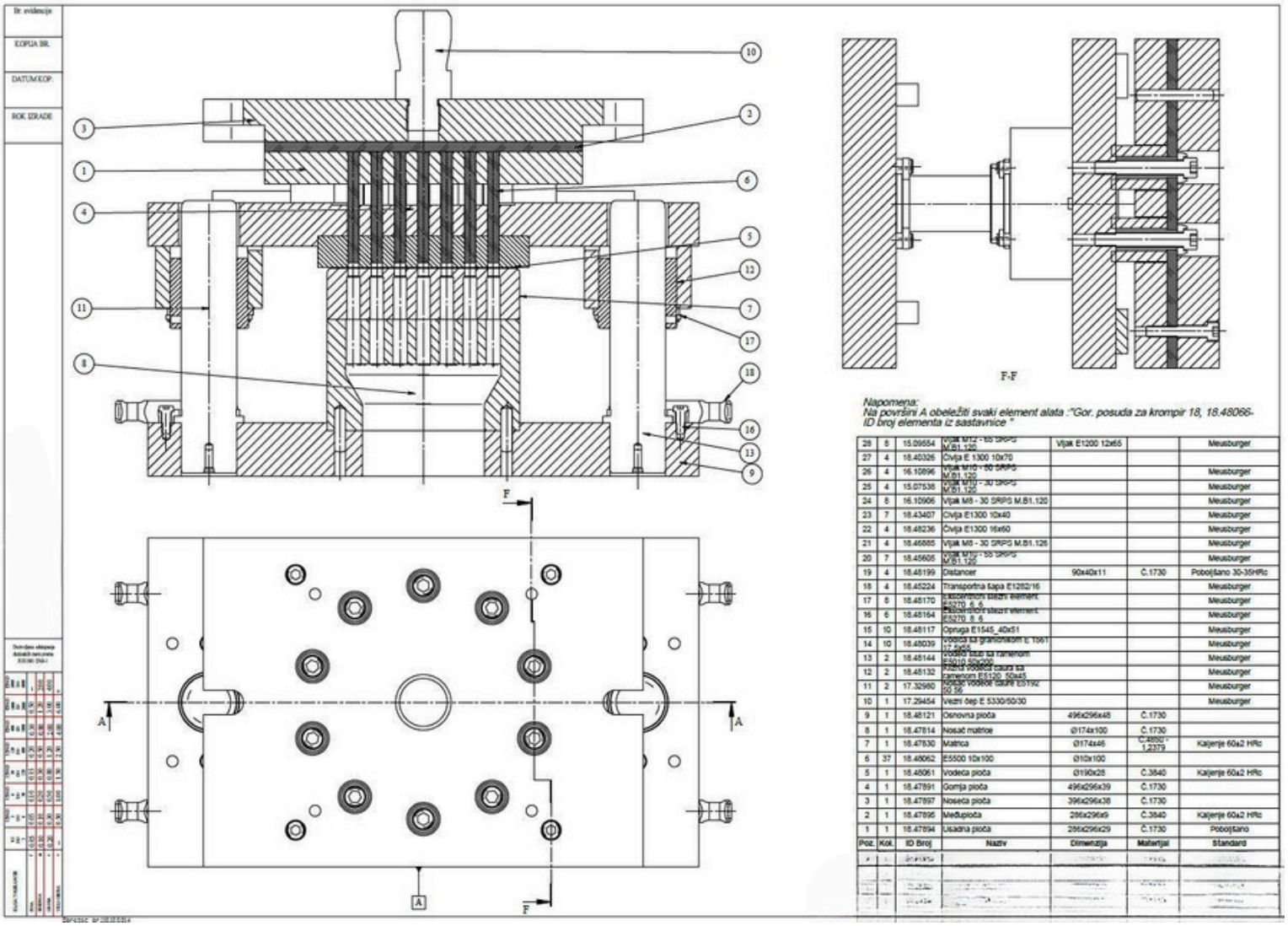

Poz.	Kol.	ID Broj	Naziv	Dimenzija	Materijal	Standard
28	8	15.09554	Vijak M12 - 55 SRPG M.B1.120	Vijak E1200 12x65		Meusburger
27	4	18.40326	Civija E 1300 10x70			
26	4	16.10896	Vijak M10 - 50 SRPG M.B1.120			Meusburger
25	4	15.07538	Vijak M10 - 30 SRPG M.B1.120			Meusburger
24	8	16.10906	Vijak M8 - 30 SRPG M.B1.120			Meusburger
23	7	18.43407	Civija E1300 10x40			Meusburger
22	4	18.48236	Civija E1300 16x60			Meusburger
21	4	18.46855	Vijak M8 - 30 SRPG M.B1.126			Meusburger
20	7	18.45605	Vijak M10 - 55 SRPG M.B1.120			Meusburger
19	4	18.48199	Distancer	90x40x11	Č.1730	Poboljšano 30-35HRc
18	4	18.45224	Transportna šapa E1282/16			Meusburger
17	8	18.45170	Ekscentrični stezni element E5270_6_6			Meusburger
16	6	18.48164	Ekscentrični stezni element E5270_8_6			Meusburger
15	10	18.48117	Opruga E1545_40x51			Meusburger
14	10	18.48039	Vodeća ka graničnikom E 1061 17.5x55			Meusburger
13	2	18.48144	Vodeći štap sa ramenom E5010 50x200			Meusburger
12	2	18.48132	Vodeći vodeće čaure sa ramenom E5120_50x45			Meusburger
11	2	17.32980	Odbojni vodeće čaure E5192 50 56			Meusburger
10	1	17.29454	Vezni čep E 5330/50/30			Meusburger
9	1	18.48121	Osnovna ploča	496x296x48	Č.1730	
8	1	18.47814	Nosač matrice	Ø174x100	Č.1730	
7	1	18.47830	Matrica	Ø174x46	Č.4550 / 1.2379	Kaljenje 60±2 HRc
6	37	18.48062	E5500 10x100	Ø10x100		
5	1	18.48061	Vodeća ploča	Ø190x28	Č.3540	Kaljenje 60±2 HRc
4	1	18.47891	Gornja ploča	496x296x39	Č.1730	
3	1	18.47897	Noseća ploča	396x296x36	Č.1730	
2	1	18.47895	Međuploča	286x296x9	Č.3540	Kaljenje 60±2 HRc
1	1	18.47894	Ulazna ploča	286x296x29	Č.1730	Poboljšano