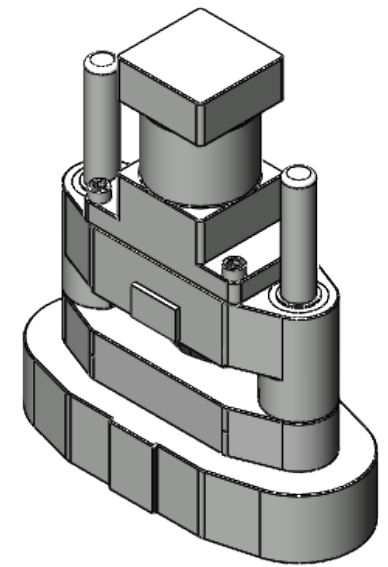
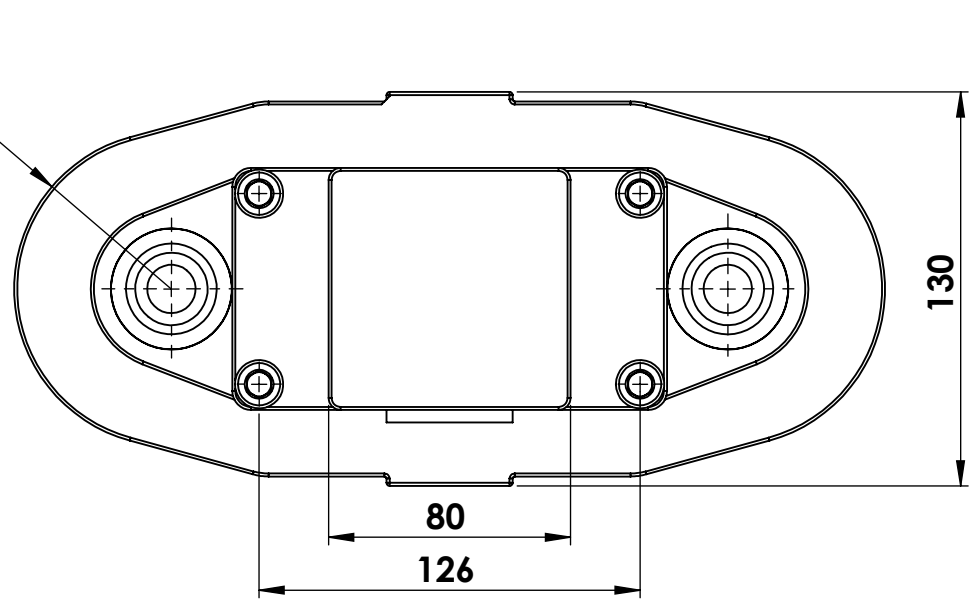
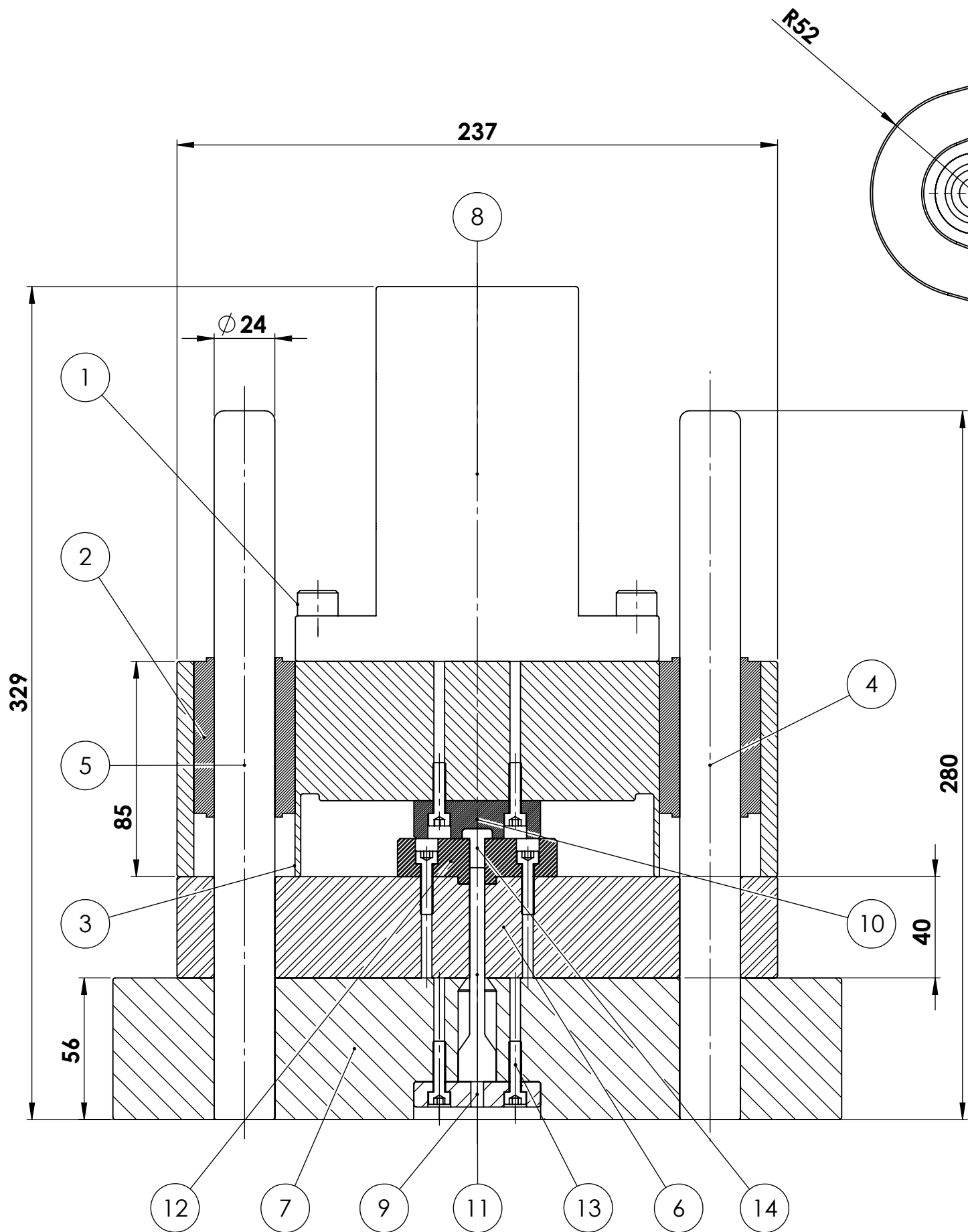


ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	CSH-ST-MS10-40	Hexagon socket cap Screw, MS10-40	A4-80	2
2	ST402.24X060X06	Guide bushes, ball guide	X155CrMoV12 (1.2379)	2
3	ST 1201.120x080-3	Die sets with sliding guide	X210Cr12 (1.2080)	1
4	ST7100.25X280	Guide pillars I smooth, for pouring	X45NiCrMo4 (1.2767)	1
5	ST7100.24X280	Guide pillars II smooth, for pouring	X45NiCrMo4 (1.2767)	1
6	ST 1202.125x080-1	Die sets	56NiCrMoV7 (1.2714)	1
7	ST 1201.125x080-1	Die sets with sliding guide steel bronze plated	X100CrMoV5-1 (1.2363)	1
8	ST 1292.125x0800-1	Pneumatic stamping units, die set - rectangular working area	X100CrMoV5-1 (1.2363)	1
9	ST 2006. 080_EC	Ejector cover plate	X153CrMoV12 (1.2379)	1
10	ST-1201-PH	Punch, heat treated	60WCrV7, 1.2550	1
11	ST 2006.080_E	Ejector heat treated by austenitizing	60WCrV7, 1.2344	1
12	ST-1201-DH	Die	60WCrV7, 1.2550	1
13	Part 1	Pre-form workpiece	Al99.5	1
14	ISO 4762 M5 x 20 - 20C	Socket head cap screw M5x20	A4-80	8

Name Fahlevi Muhammad Kevin	Project Upsetting Cold Forming	Scale 1:2	Budapest University of Technology and Economics Department of Materials Science and Engineering	
Date 2024-12-12	Description Metal Forming	Projection 		Drawing number Full-Open Arrangement
Checked by Dr. Reé András	Material			



ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	CSH-ST-MS10-40	Hexagon socket cap Screw, MS10-40	A4-80	2
2	ST402.24X060X06	Guide bushes, ball guide	X155CrMoV12 (1.2379)	2
3	ST 1201.120x080-3	Die sets with sliding guide	X210Cr12 (1.2080)	1
4	ST7100.25X280	Guide pillars I smooth, for pouring	X45NiCrMo4 (1.2767)	1
5	ST7100.24X280	Guide pillars II smooth, for pouring	X45NiCrMo4 (1.2767)	1
6	ST 1202.125x080-1	Die sets	56NiCrMoV7 (1.2714)	1
7	ST 1201.125x080-1	Die sets with sliding guide steel bronze plated	X100CrMoV5-1 (1.2363)	1
8	ST 1292.125x0800-1	Pneumatic stamping units, die set - rectangular working area	X100CrMoV5-1 (1.2363)	1
9	ST 2006. 080_EC	Ejector cover plate	X153CrMoV12 (1.2379)	1
10	ST-1201-PH	Punch, heat treated	60WCrV7, 1.2550	1
11	ST 2006.080_E	Ejector heat treated by austenitizing	60WCrV7, 1.2344	1
12	ST-1201-DH	Die	60WCrV7, 1.2550	1
13	ISO 4762 M5 x 20 - 20C	Socket head cap screw M5x20	A4-80	8
14	Part 2	Final workpiece	Al99.5	1

Name Fahlevi Muhammad Kevin	Project Upsetting Cold Forming	Scale 1:2	Budapest University of Technology and Economics Department of Materials Science and Engineering
Date 2024-12-12	Description Metal Forming	Projection 	
Checked by Dr. Reé András	Material	Drawing number Full Closed Arrangement	

