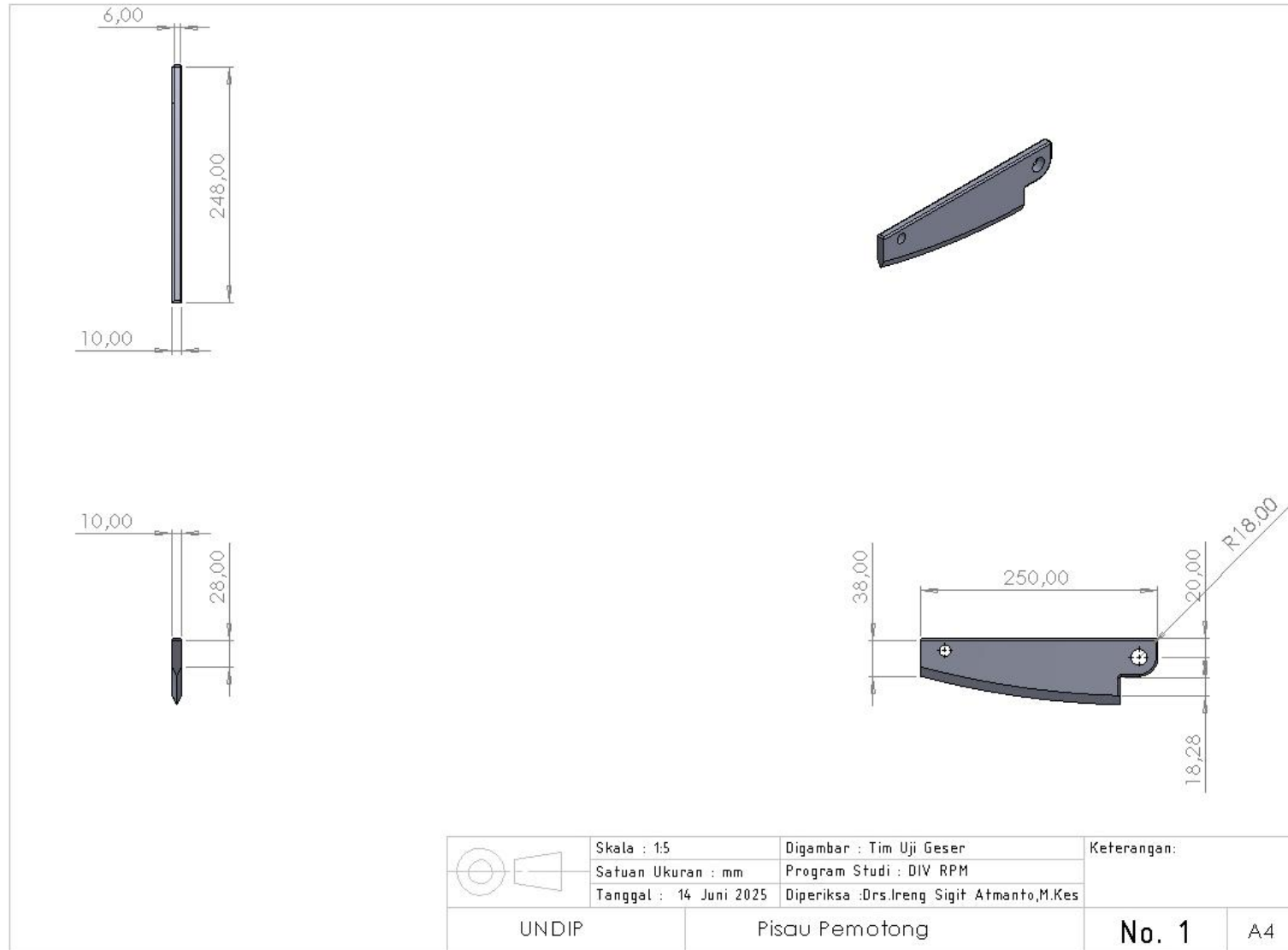
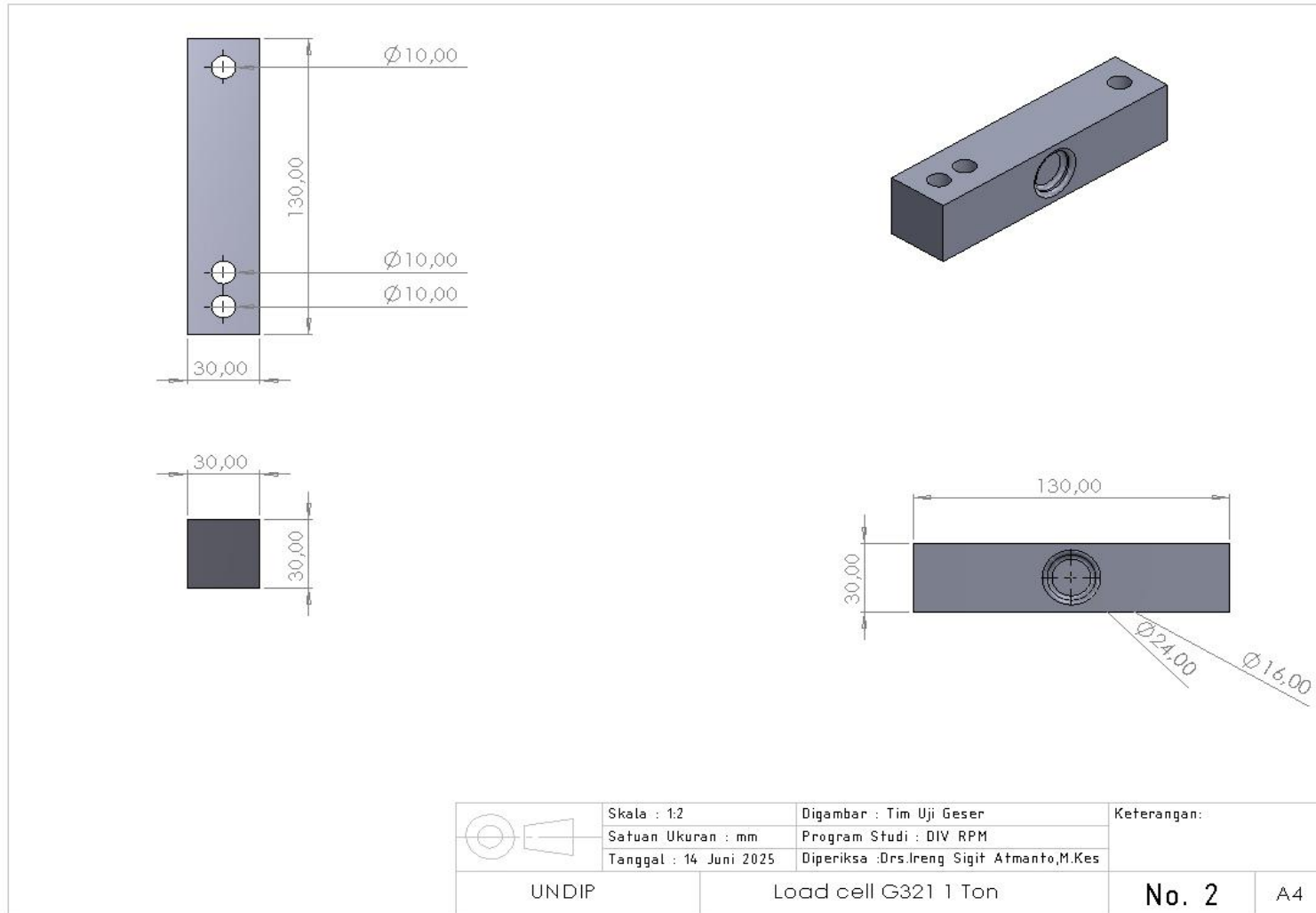


LAMPIRAN

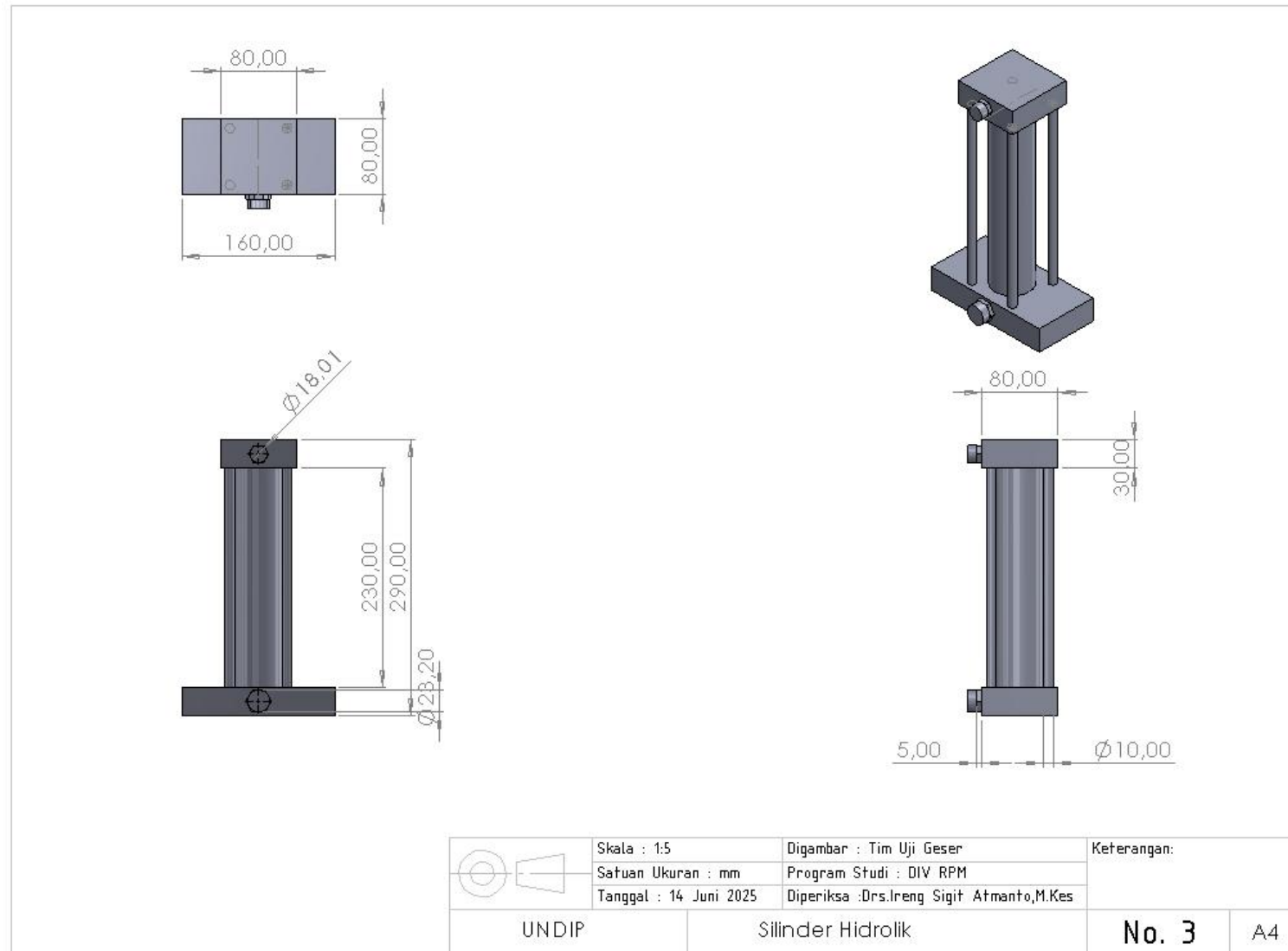
Lampiran 1. Gambar Pisau Pemotong



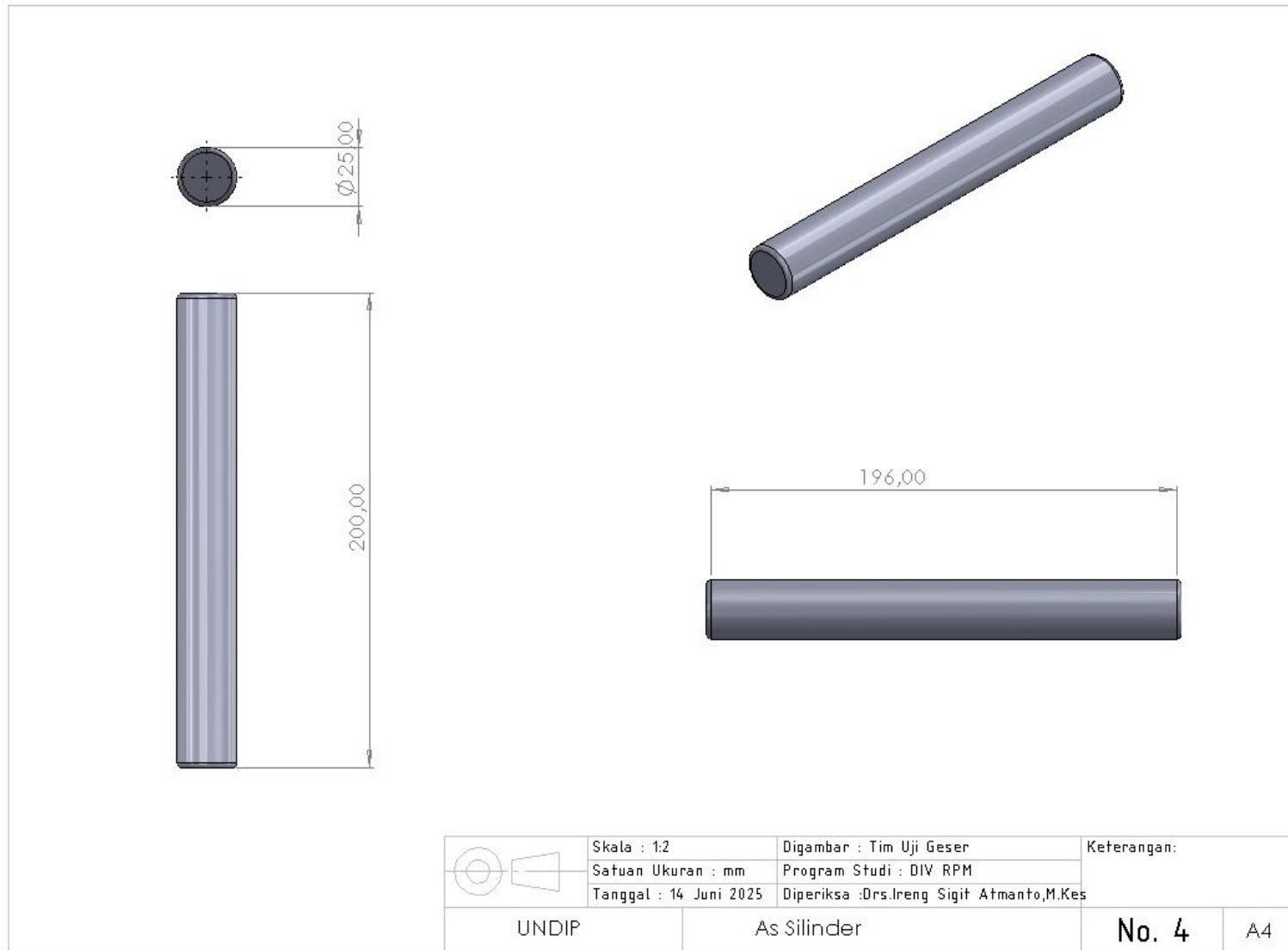
Lampiran 2. Gambar *Load cell*



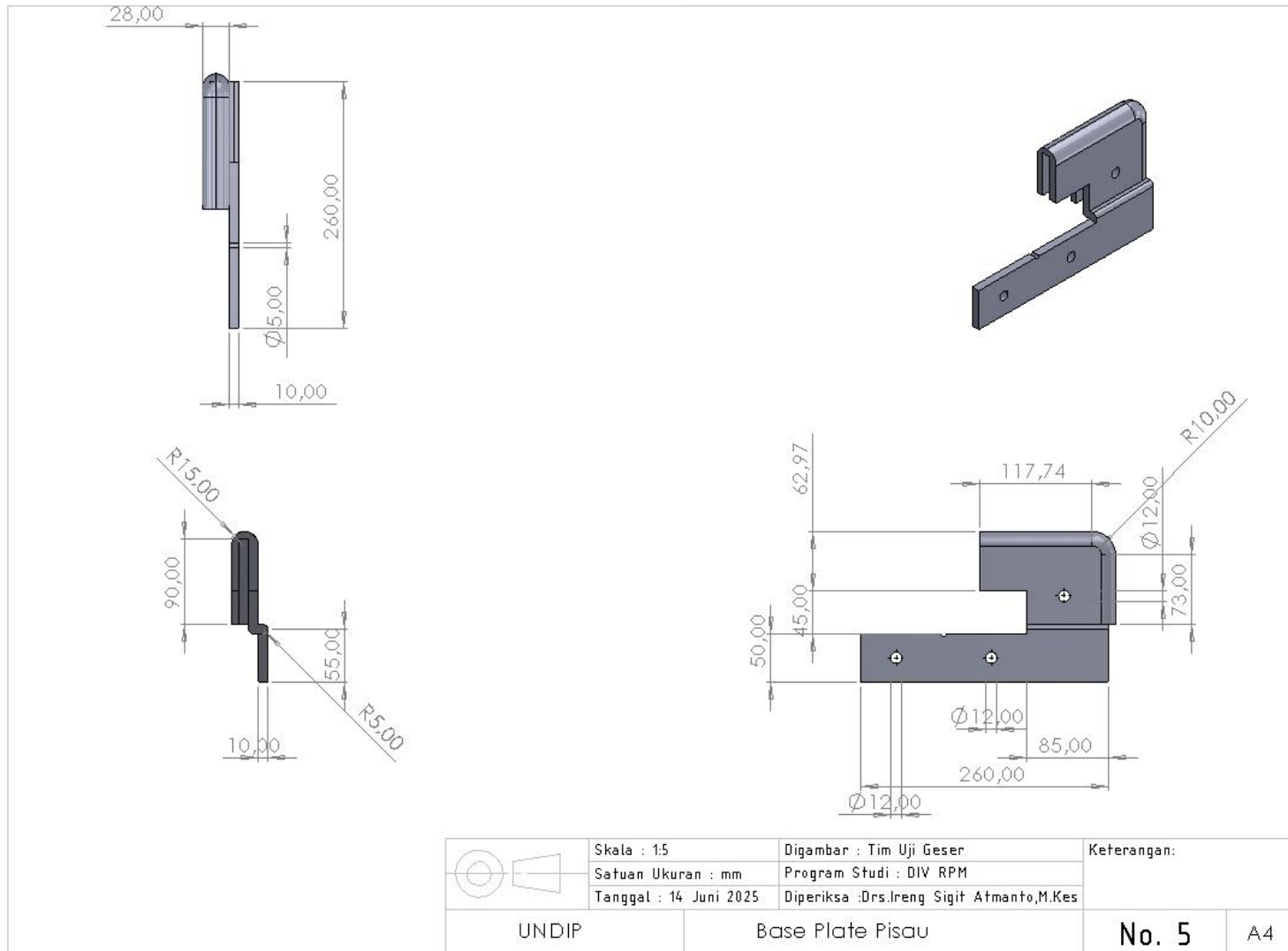
Lampiran 3. Gambar Silinder Hidrolik



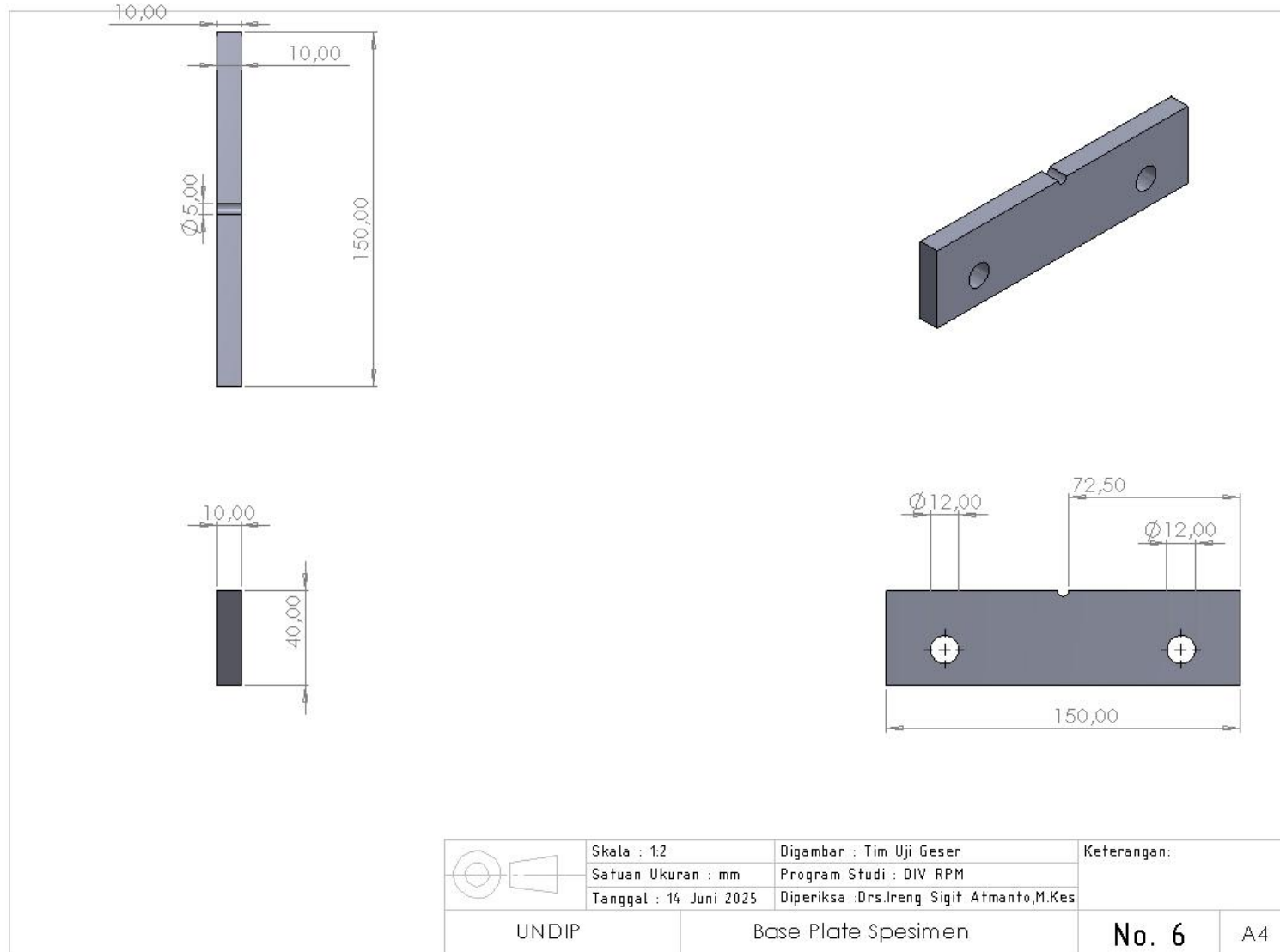
Lampiran 4. Gambar As Silinder



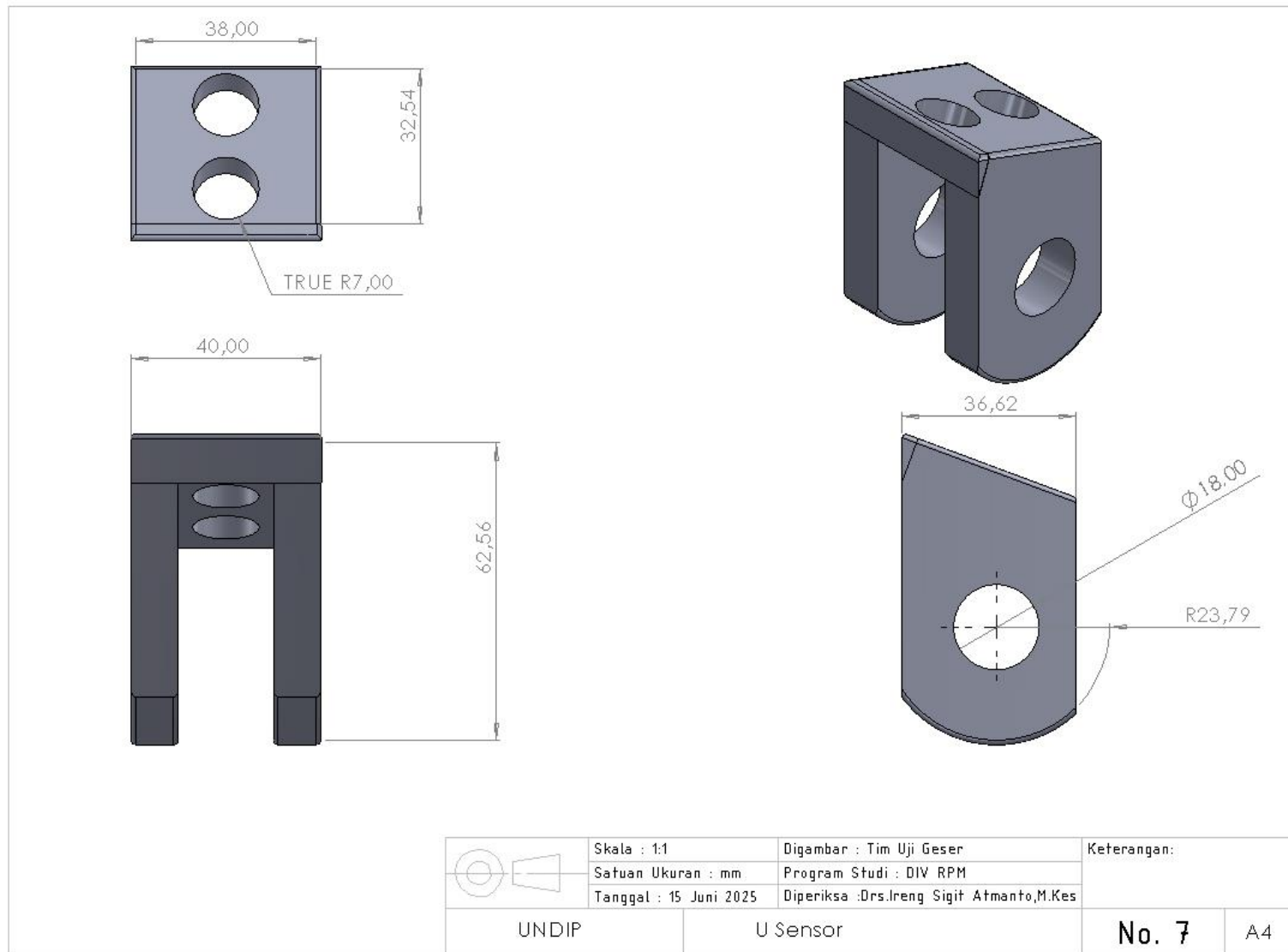
Lampiran 5. Gambar *Base Plate Pisau*



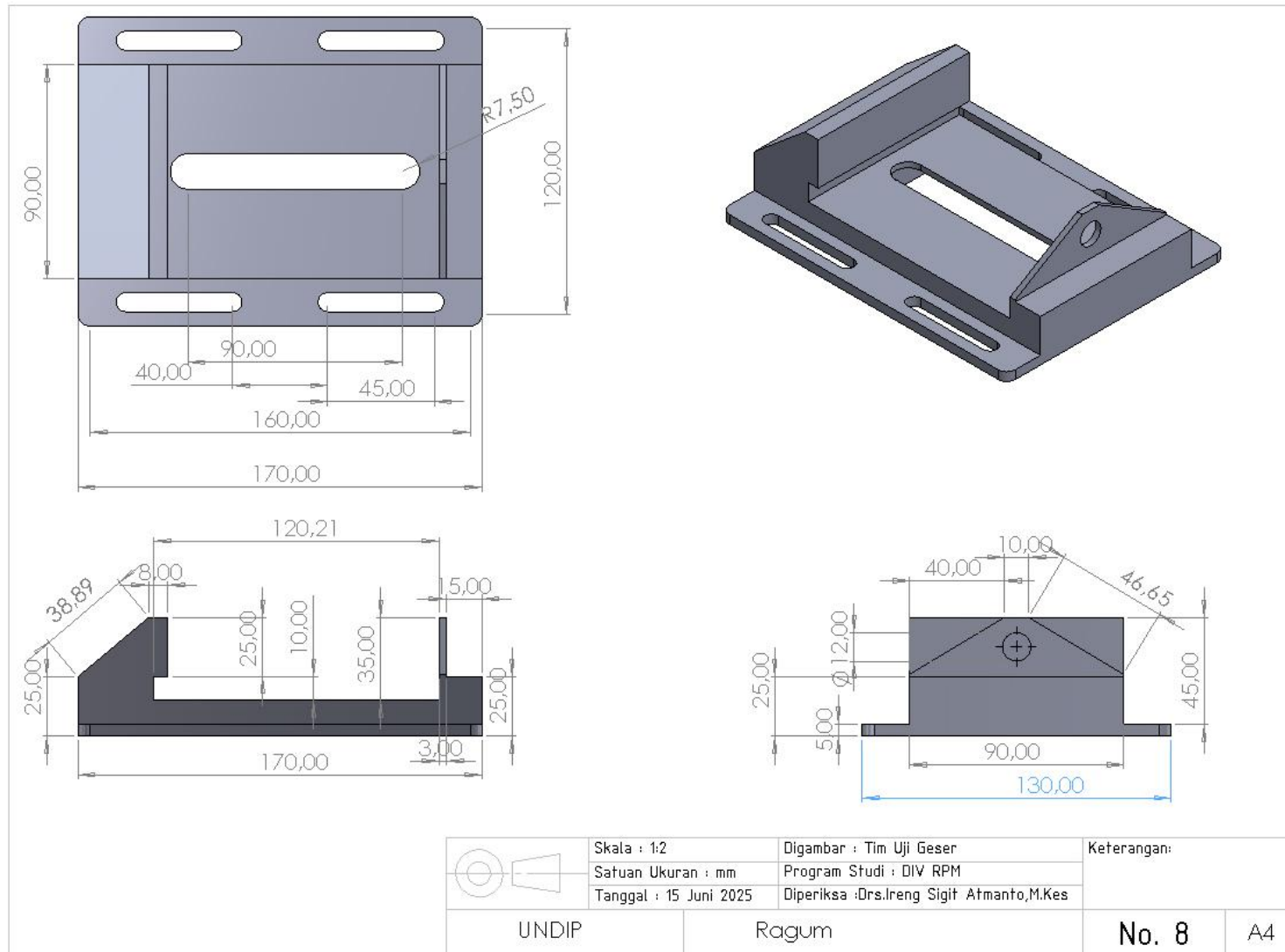
Lampiran 6. Gambar *Base Plate* Spesimen



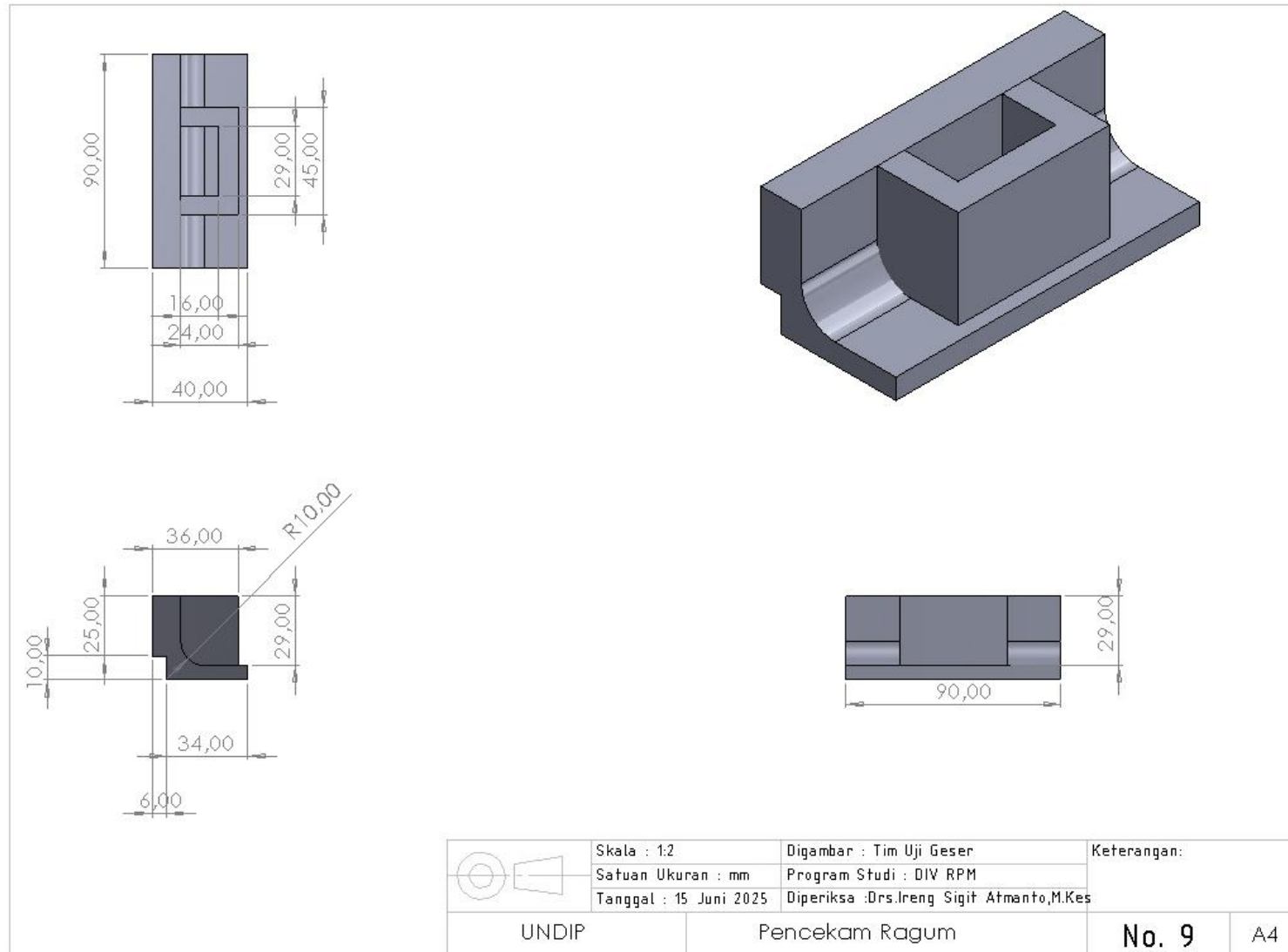
Lampiran 7. Gambar Plat U Sensor



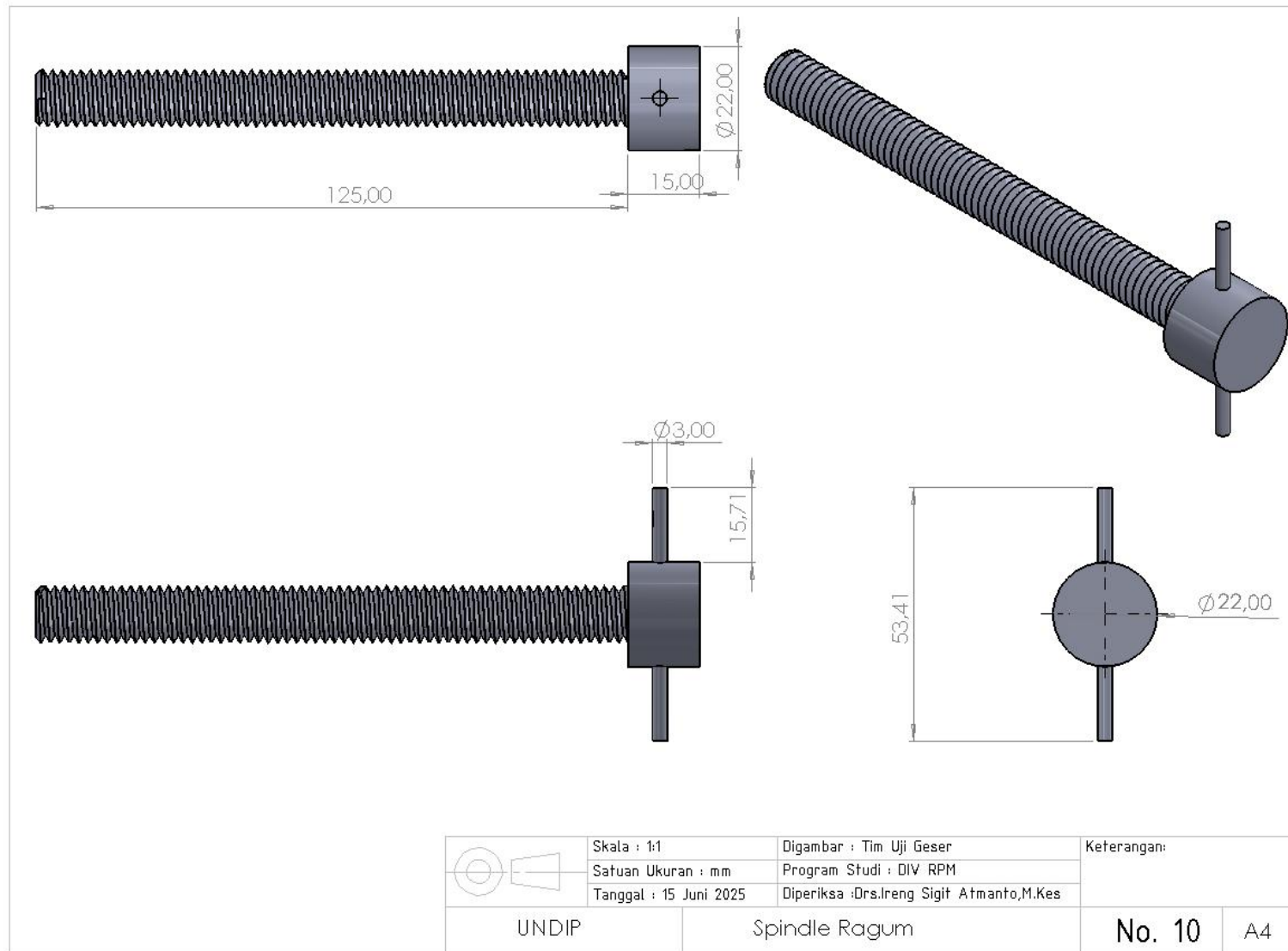
Lampiran 8. Gambar Ragum



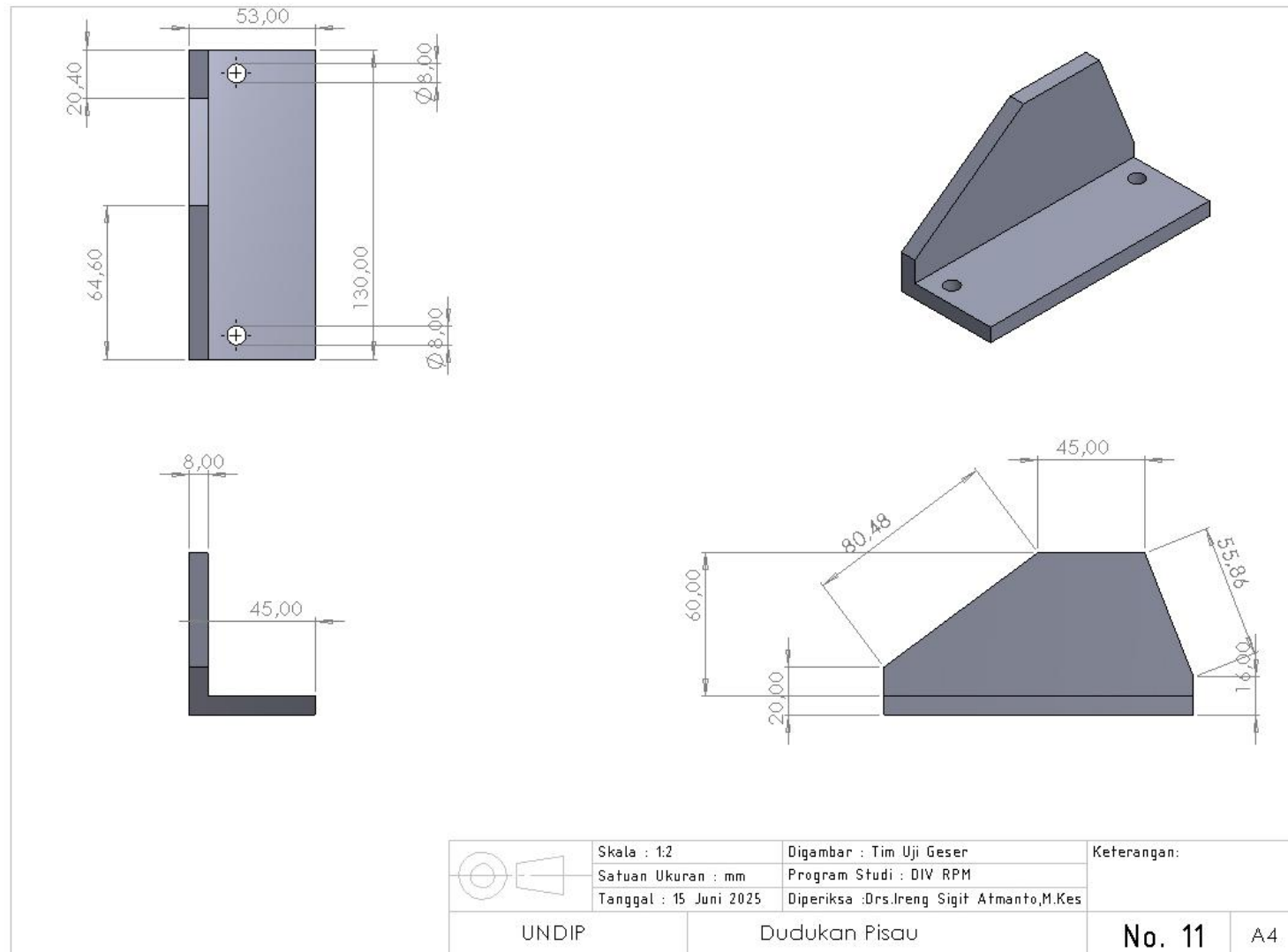
Lampiran 9. Gambar Pencekam Ragum



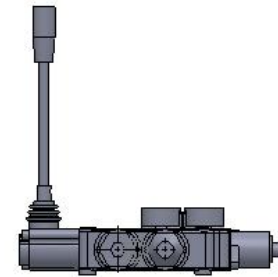
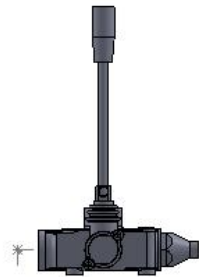
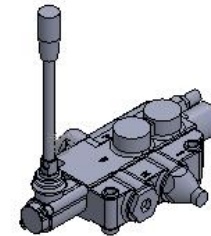
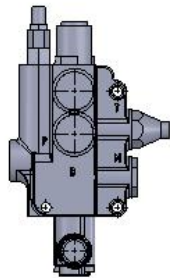
Lampiran 10. Gambar *Spindle Ragum*



Lampiran 11. Gambar Dudukan Pisau

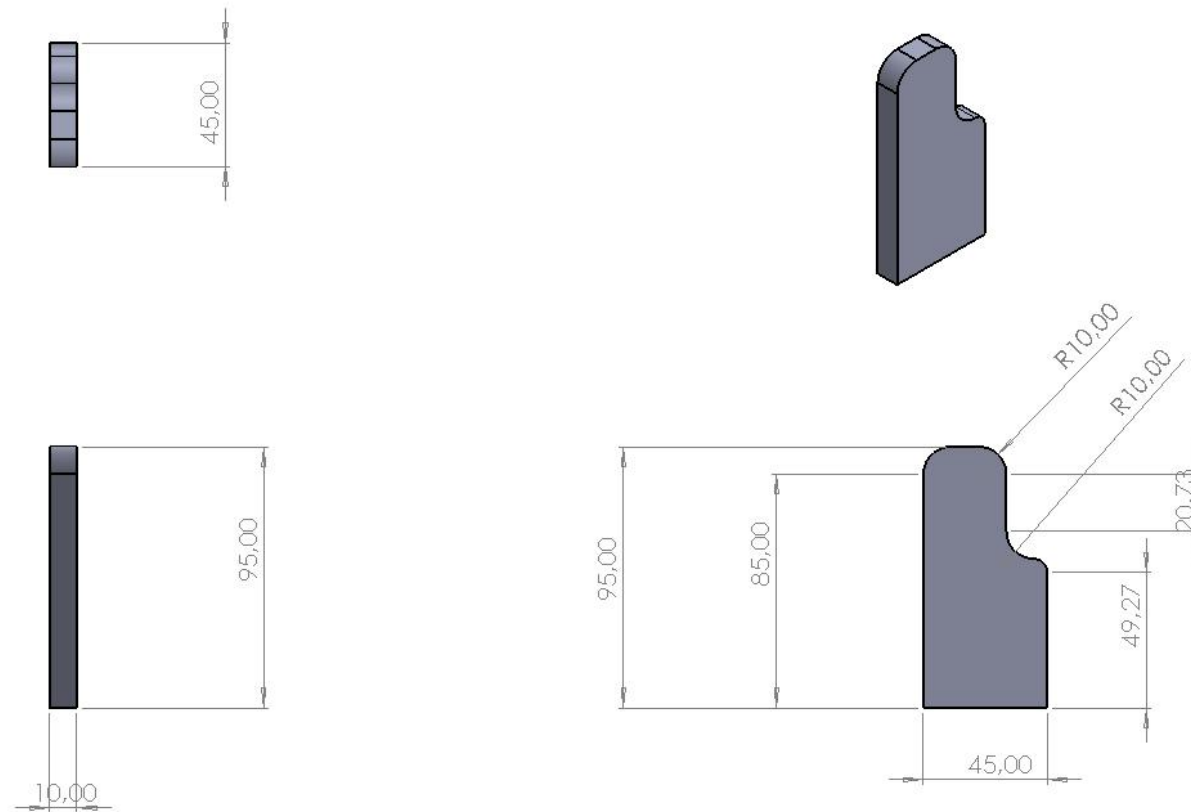


Lampiran 12. Gambar *Handle valve*



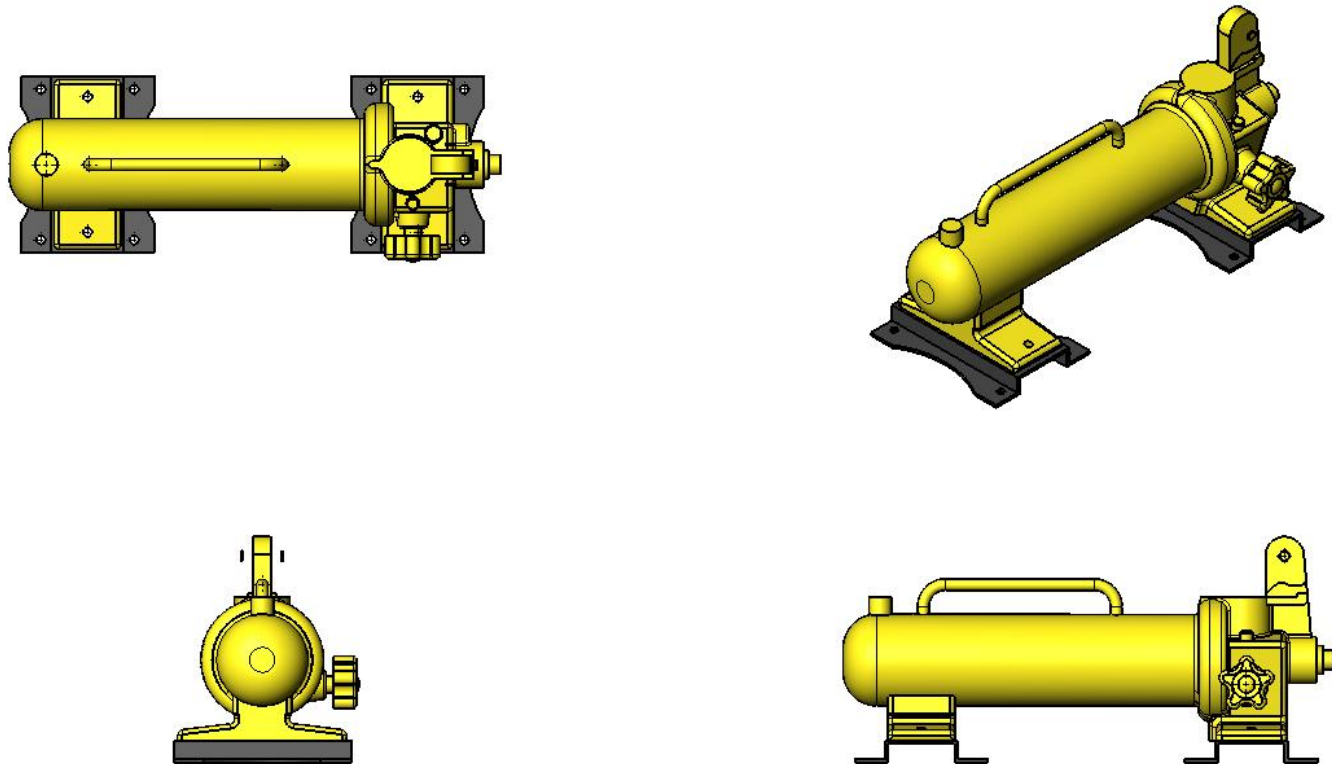
	Skala : 1:5	Digambar : Tim Uji Geser	Keterangan:	
	Satuan Ukuran : mm	Program Studi : DIV RPM		
	Tanggal : 15 Juni 2025	Diperiksa : Drs.Ireng Sigit Atmanto,M.Kes		
UNDIP	Handle Valve		No. 12	A4

Lampiran 13. Gambar Penahan Pisau



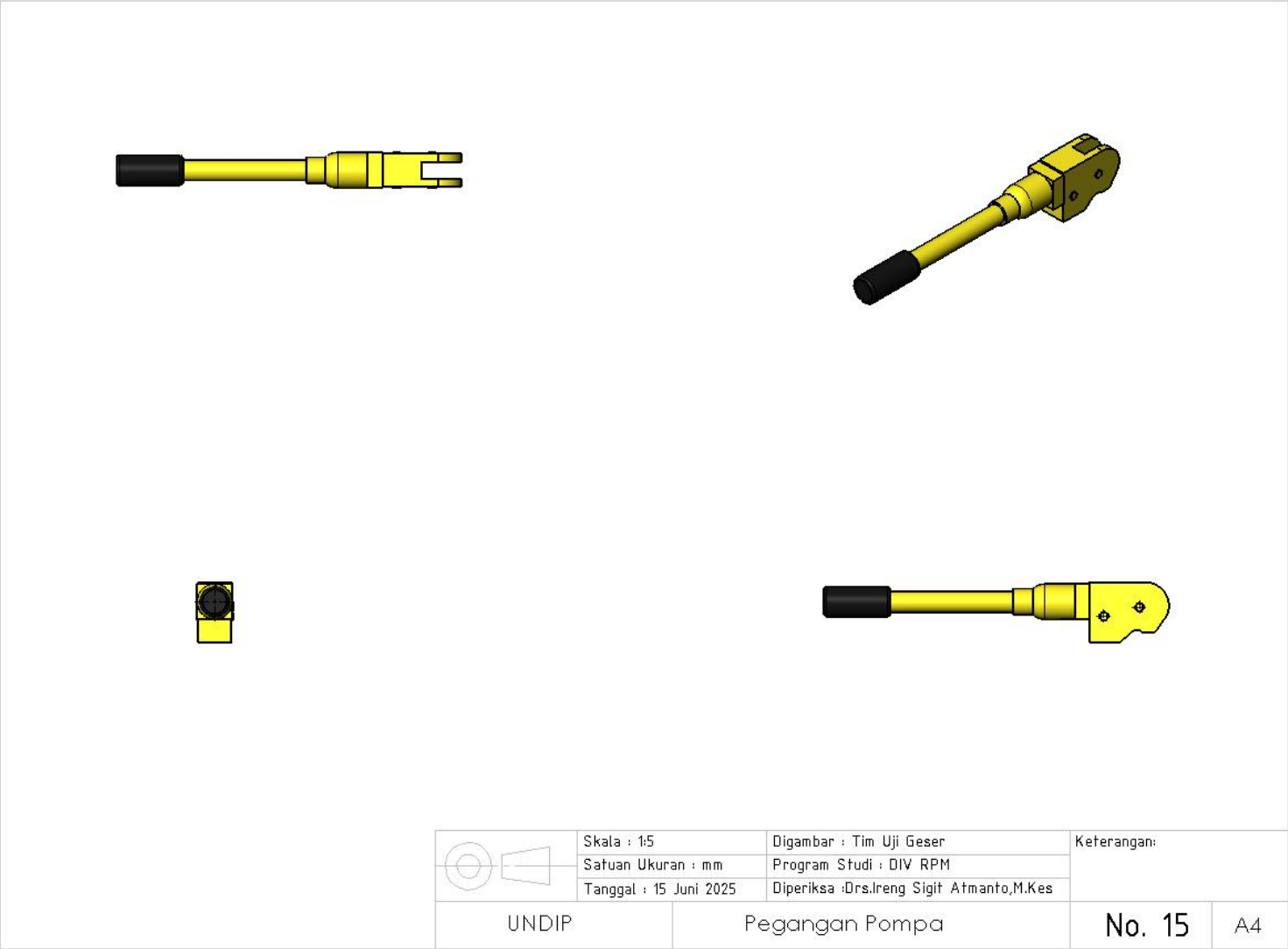
	Skala : 1:2	Digambar : Tim Uji Geser	Keterangan:	
	Satuan Ukuran : mm	Program Studi : DIV RPM		
	Tanggal : 15 Juni 2025	Diperiksa : Drs.Ireng Sigit Atmanto,M.Kes		
UNDIP	Penahan Piso		No. 13	A4

Lampiran 14. Gambar *Manual Hand Pump*

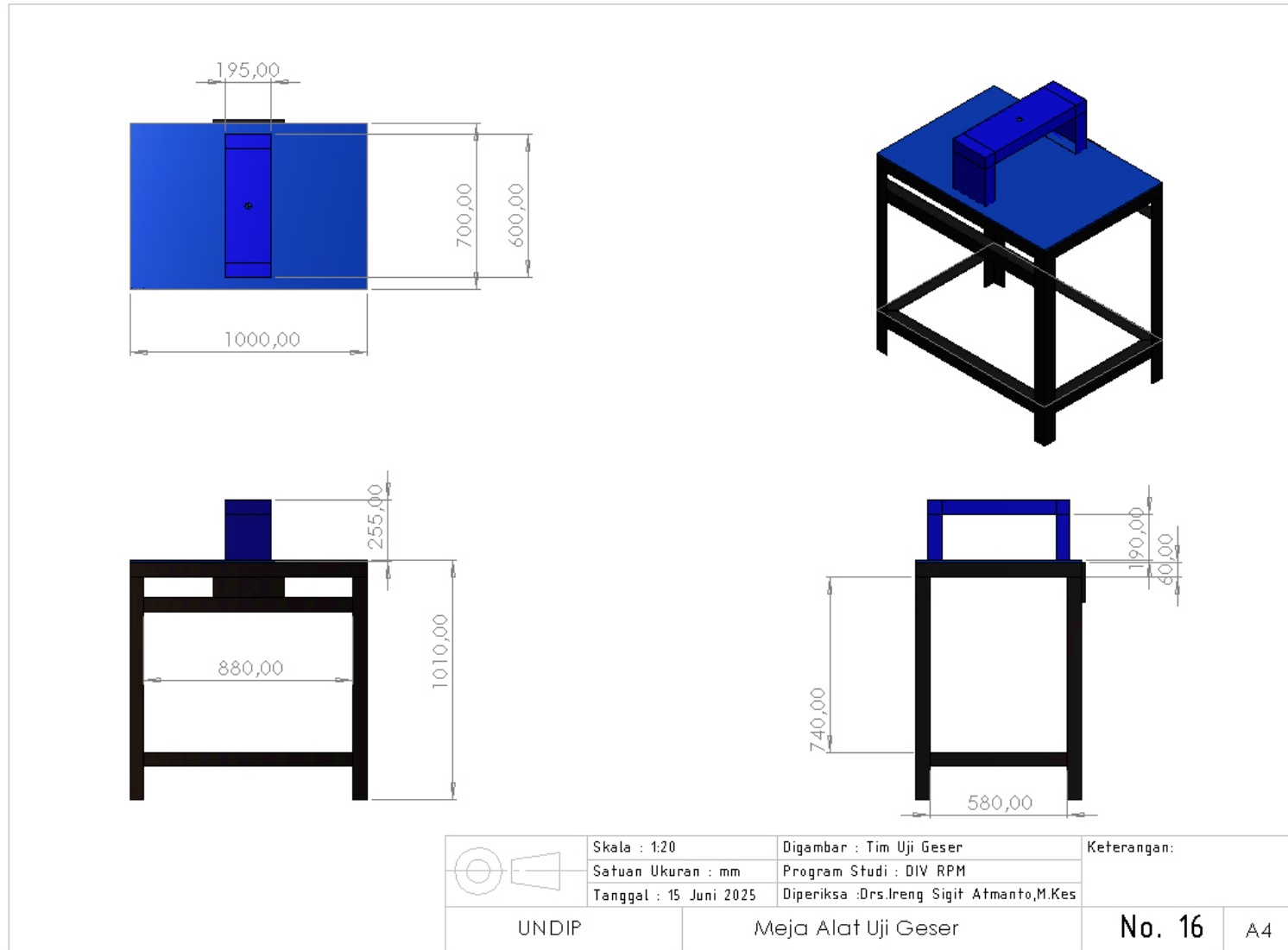


	Skala : 1:5	Digambar : Tim Uji Geser	Keterangan:	
	Satuan Ukuran : mm	Program Studi : DIV RPM		
	Tanggal : 15 Juni 2025	Diperiksa : Drs.Ireng Sigit Atmanto,M.Kes		
UNDIP	Manual Hand Pump		No. 14	A4

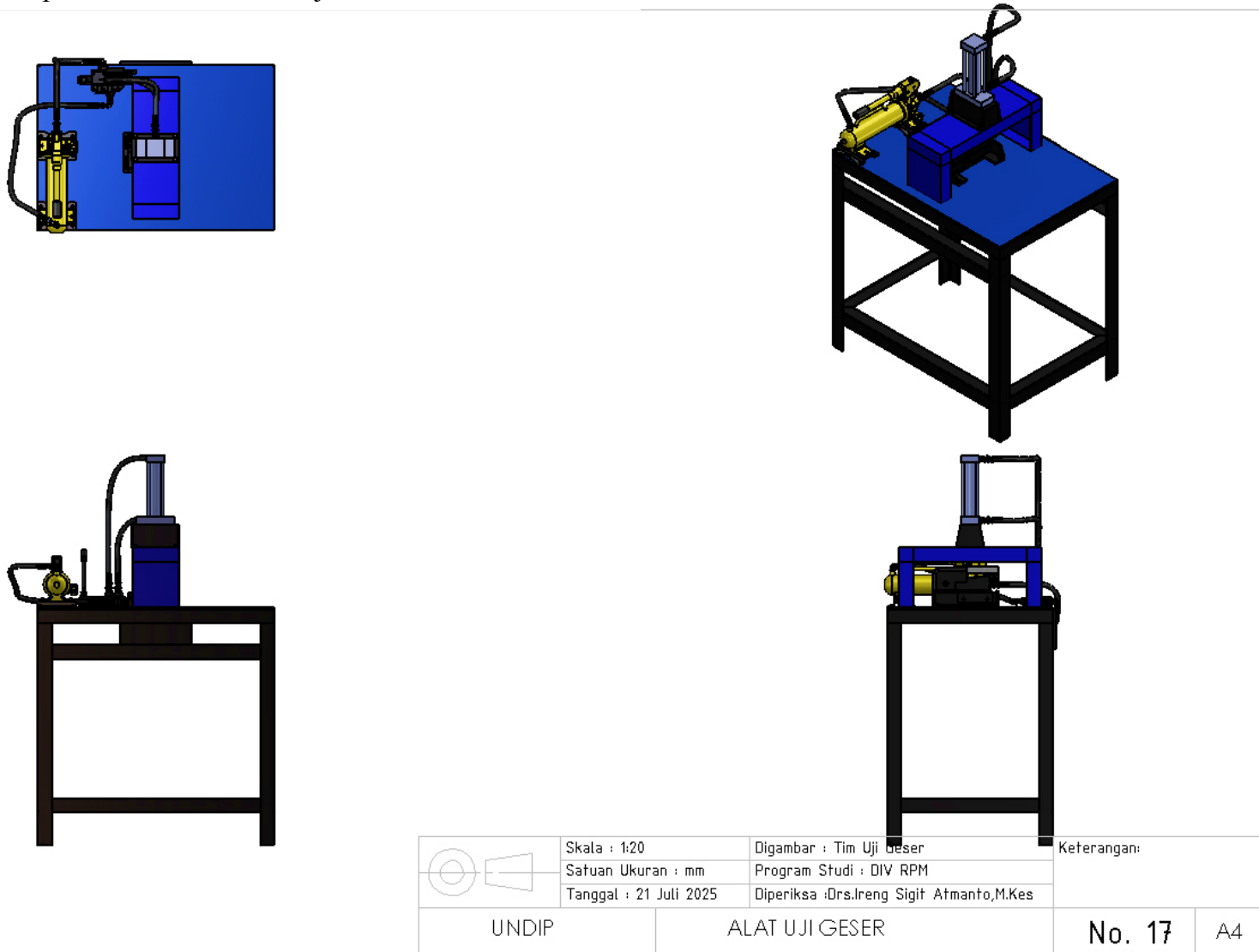
Lampiran 15. Gambar Pegangan Pompa



Lampiran 16. Gambar Meja Alat Uji Geser

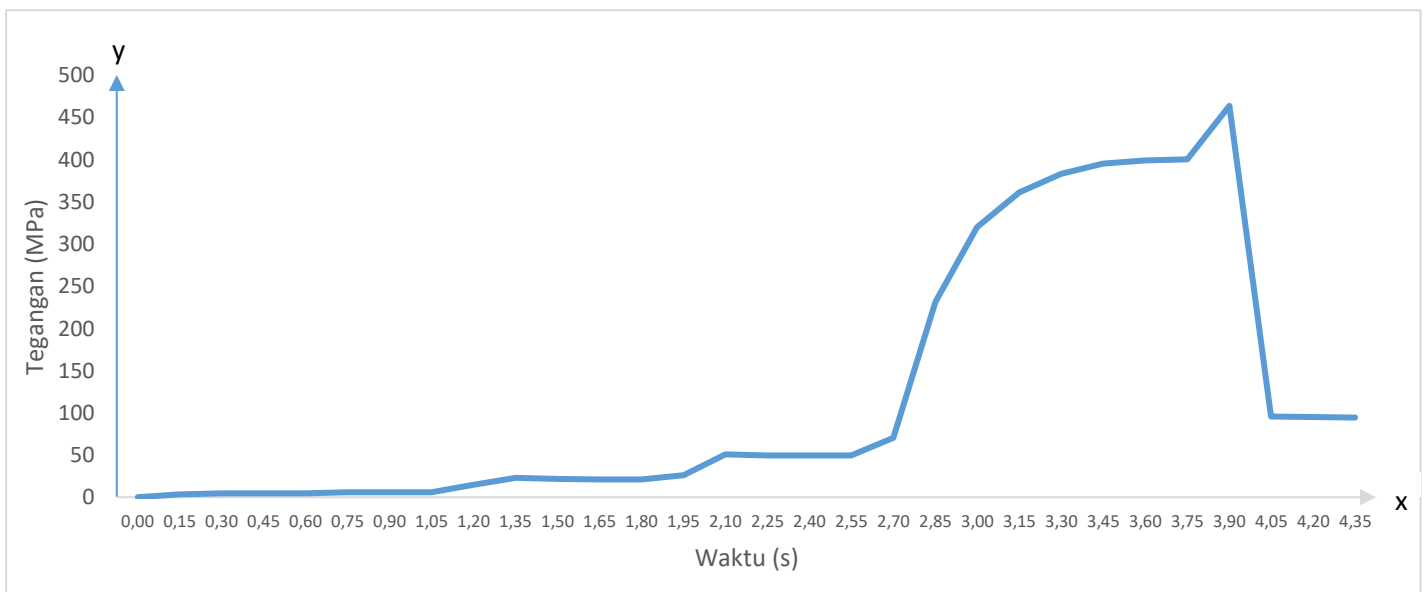
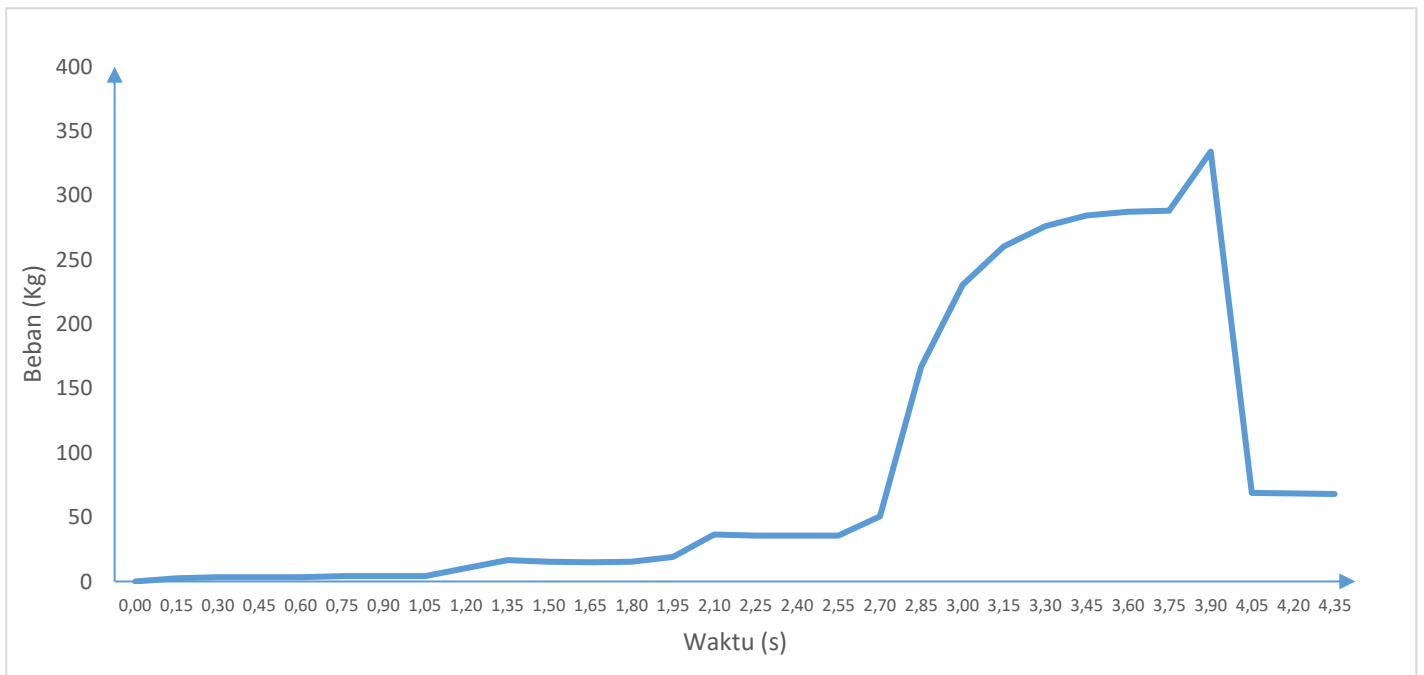


Lampiran 17. Gambar Alat Uji Geser



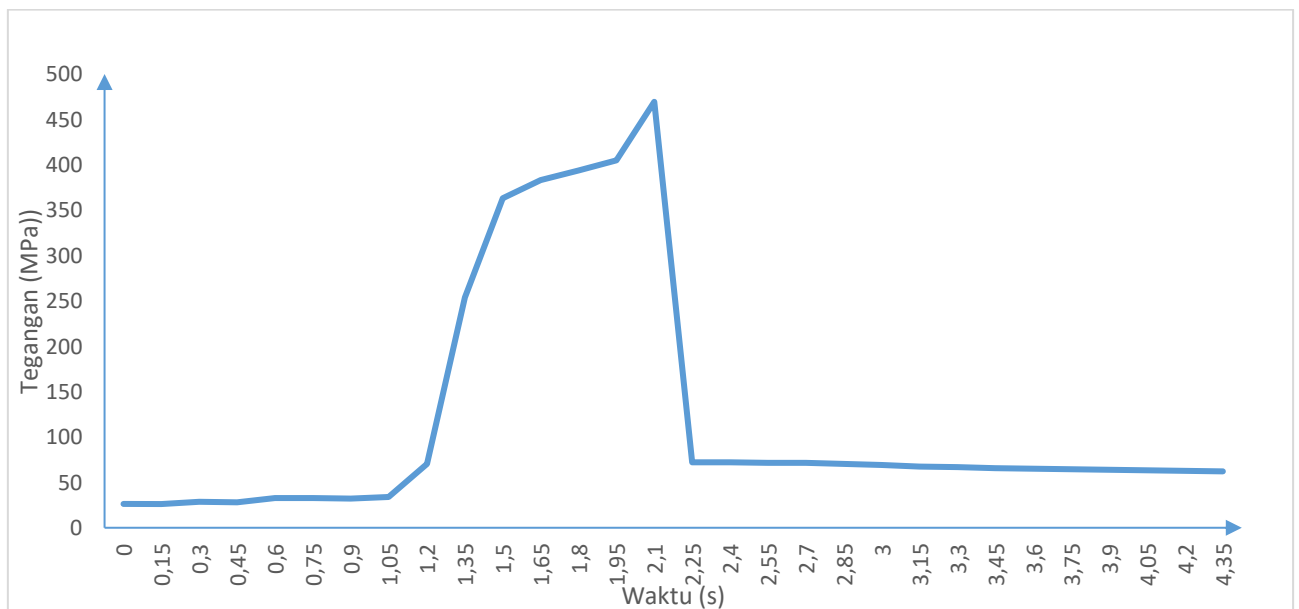
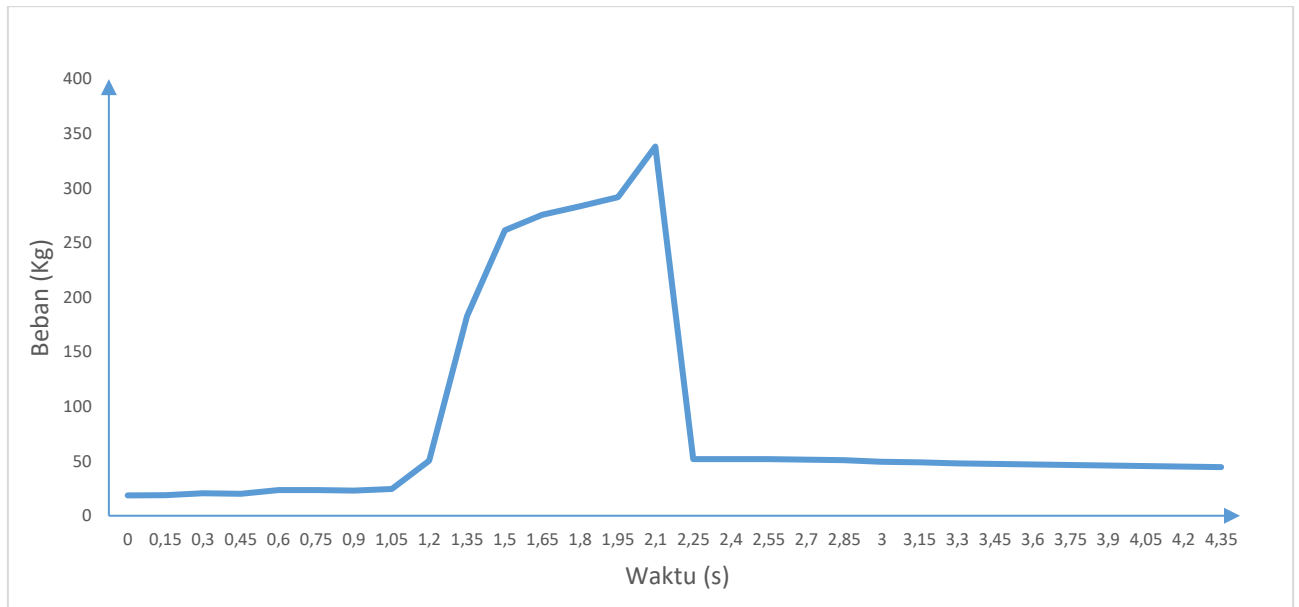
PENGUJIAN 1**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
14.44.47,46	0	0,00	0	7,07	0
14.44.47,65	2,3	0,15	22,563	7,07	3,191371994
14.44.47,84	3,29	0,30	32,2749	7,07	4,565049505
14.44.48,03	3,31	0,45	32,4711	7,07	4,592800566
14.44.48,22	3,32	0,60	32,5692	7,07	4,606676096
14.44.48,41	4,26	0,75	41,7906	7,07	5,910975955
14.44.48,60	4,28	0,90	41,9868	7,07	5,938727016
14.44.48,79	4,3	1,05	42,183	7,07	5,966478076
14.44.48,98	10,37	1,20	101,7297	7,07	14,38892504
14.44.49,17	16,42	1,35	161,0802	7,07	22,78362093
14.44.49,37	15,34	1,50	150,4854	7,07	21,28506365
14.44.49,56	15,11	1,65	148,2291	7,07	20,96592645
14.44.49,75	15,14	1,80	148,5234	7,07	21,00755304
14.44.49,94	18,91	1,95	185,5071	7,07	26,23862801
14.44.50,13	36,48	2,10	357,8688	7,07	50,61793494
14.44.50,32	35,8	2,25	351,198	7,07	49,67439887
14.44.50,51	35,61	2,40	349,3341	7,07	49,41076379
14.44.50,70	35,48	2,55	348,0588	7,07	49,2303819
14.44.50,89	50,53	2,70	495,6993	7,07	70,11305516
14.44.51,08	166,70	2,85	1635,327	7,07	231,3050919
14.44.51,27	230,38	3,00	2260,028	7,07	319,6644696
14.44.51,47	260,21	3,15	2552,66	7,07	361,0551768
14.44.51,66	276,16	3,30	2709,13	7,07	383,1866478
14.44.51,85	284,46	3,45	2790,553	7,07	394,703338
14.44.52,04	287,34	3,60	2818,805	7,07	398,6994908
14.44.52,23	288,10	3,75	2826,261	7,07	399,7540311
14.44.52,42	334,00	3,90	3276,54	7,07	463,4427157
14.44.52,61	68,96	4,05	676,4976	7,07	95,68565771
14.44.52,80	68,29	4,20	669,9249	7,07	94,75599717
14.44.52,99	67,94	4,35	666,4914	7,07	94,27035361



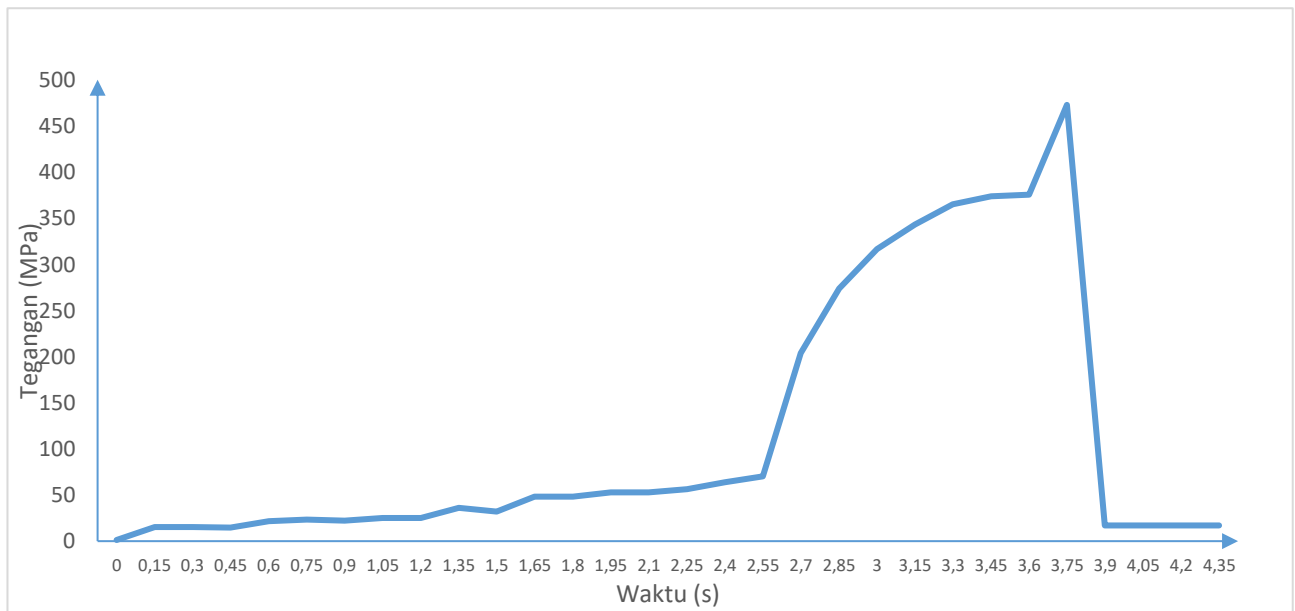
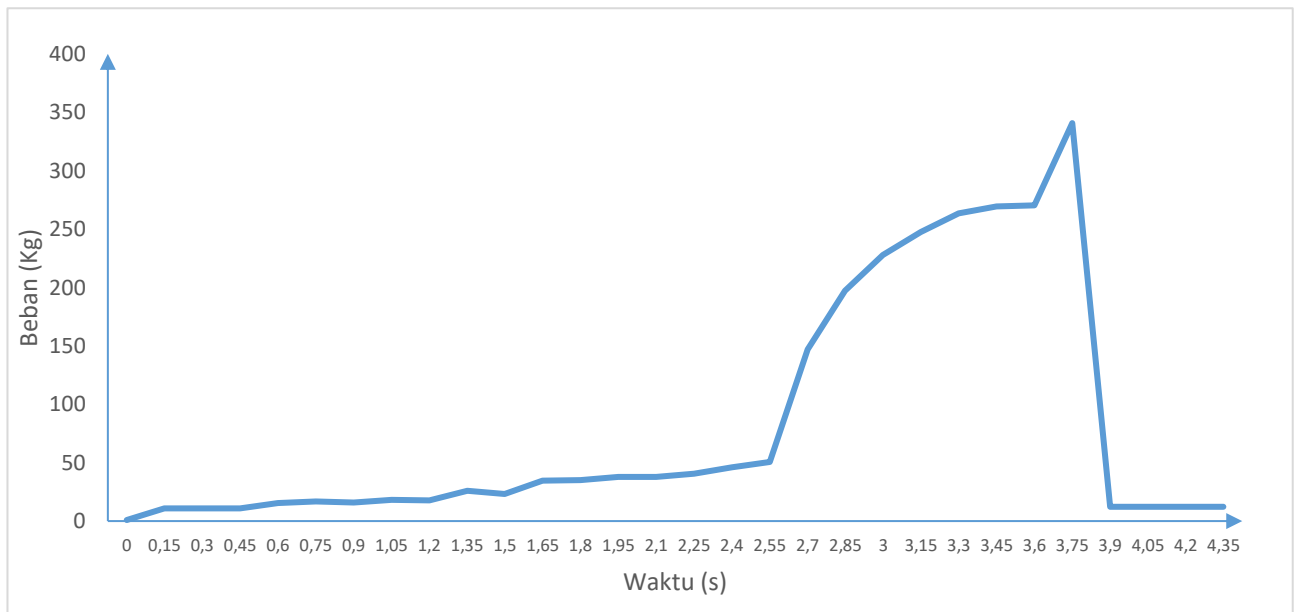
PENGUJIAN 2**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
14.51.24,54	18,87	0	185,1147	7,07	26,18312588
14.51.24,73	18,83	0,15	184,7223	7,07	26,12762376
14.51.24,92	20,6	0,3	202,086	7,07	28,58359264
14.51.25,11	20,31	0,45	199,2411	7,07	28,18120226
14.51.25,31	23,77	0,6	233,1837	7,07	32,98213579
14.51.25,50	23,39	0,75	229,4559	7,07	32,45486563
14.51.25,69	23,17	0,9	227,2977	7,07	32,14960396
14.51.25,88	24,3	1,05	238,383	7,07	33,7175389
14.51.26,07	50,6	1,2	496,386	7,07	70,21018388
14.51.26,26	182,75	1,35	1792,778	7,07	253,5753182
14.51.26,45	261,75	1,5	2567,768	7,07	363,1920085
14.51.26,64	275,92	1,65	2706,775	7,07	382,8536351
14.51.26,83	283,53	1,8	2781,429	7,07	393,4129137
14.51.27,03	291,95	1,95	2864,03	7,07	405,0961103
14.51.27,21	338,28	2,1	3318,527	7,07	469,3814427
14.51.27,41	51,87	2,25	508,8447	7,07	71,97237624
14.51.27,60	51,8	2,4	508,158	7,07	71,87524752
14.51.27,79	51,7	2,55	507,177	7,07	71,73649222
14.51.27,98	51,4	2,7	504,234	7,07	71,32022631
14.51.28,17	50,84	2,85	498,7404	7,07	70,54319661
14.51.28,36	49,66	3	487,1646	7,07	68,90588402
14.51.28,55	48,75	3,15	478,2375	7,07	67,64321075
14.51.28,74	48,01	3,3	470,9781	7,07	66,6164215
14.51.28,93	47,34	3,45	464,4054	7,07	65,68676096
14.51.29,12	46,78	3,6	458,9118	7,07	64,90973126
14.51.29,32	46,27	3,75	453,9087	7,07	64,20207921
14.51.29,51	45,86	3,9	449,8866	7,07	63,63318246
14.51.29,70	45,43	4,05	445,6683	7,07	63,03653465
14.51.29,89	45,07	4,2	442,1367	7,07	62,53701556
14.51.30,08	44,73	4,35	438,8013	7,07	62,06524752



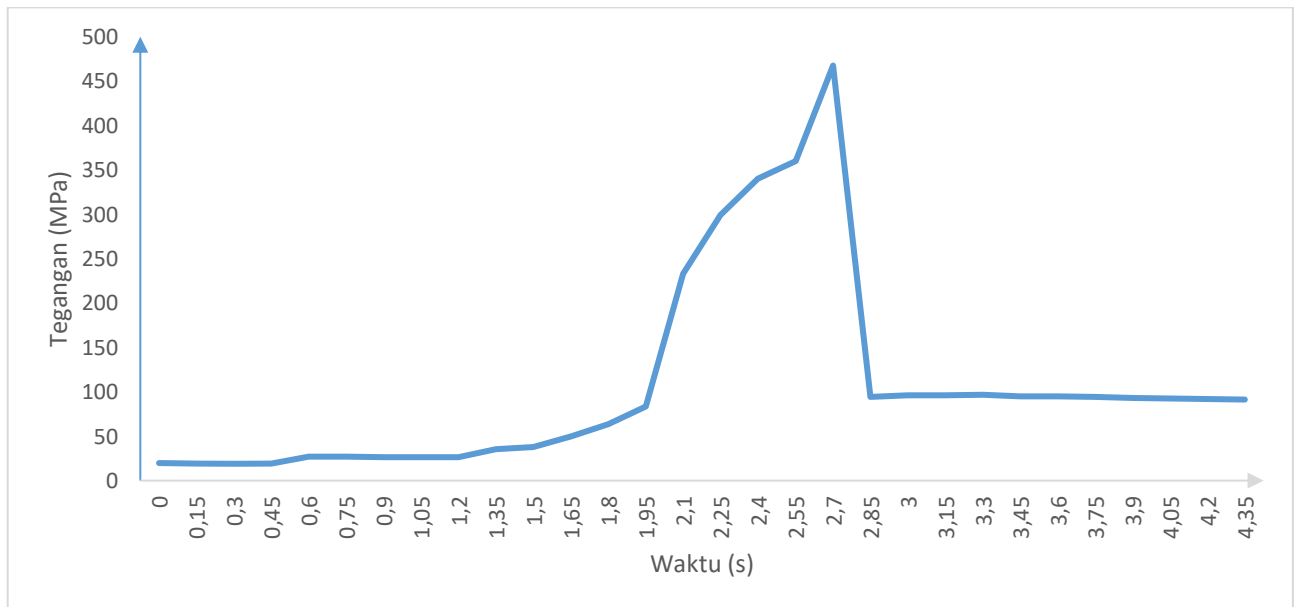
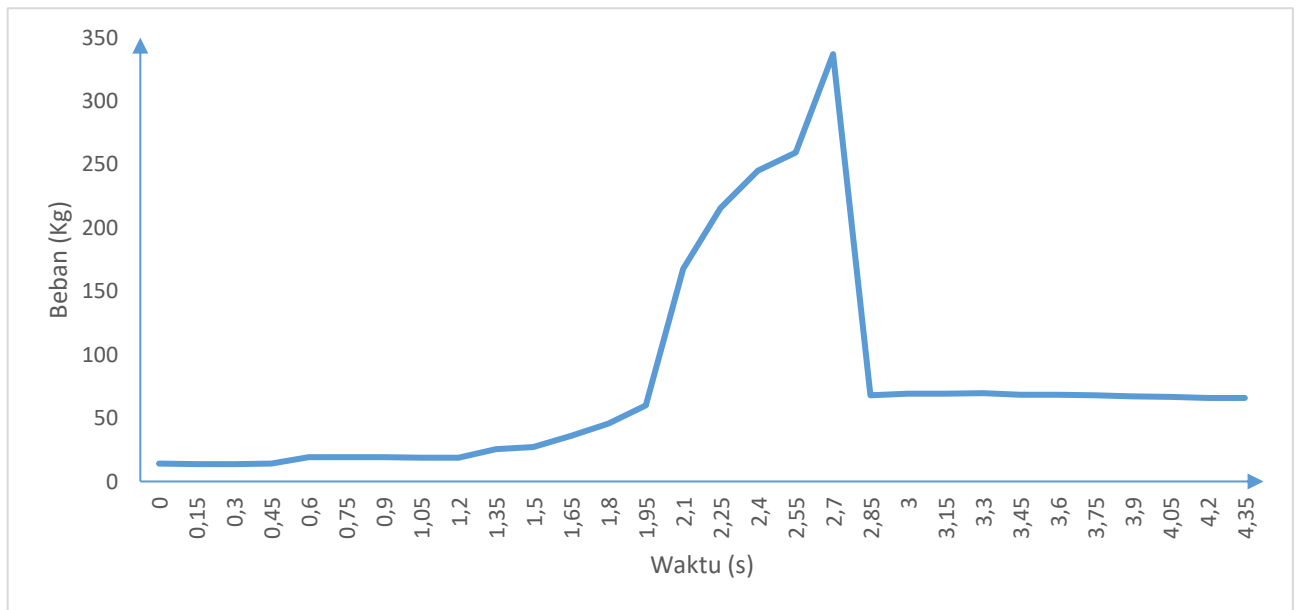
PENGUJIAN 3**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
14.58.49,35	0,9	0	8,829	7,07	1,248797737
14.58.49,54	10,9	0,15	106,929	7,07	15,12432815
14.58.49,73	10,89	0,3	106,8309	7,07	15,11045262
14.58.49,92	10,73	0,45	105,2613	7,07	14,88844413
14.58.50,12	15,64	0,6	153,4284	7,07	21,70132956
14.58.50,31	16,79	0,75	164,7099	7,07	23,29701556
14.58.50,50	16,06	0,9	157,5486	7,07	22,28410184
14.58.50,69	17,99	1,05	176,4819	7,07	24,96207921
14.58.50,88	17,93	1,2	175,8933	7,07	24,87882603
14.58.51,07	25,91	1,35	254,1771	7,07	35,95149929
14.58.51,26	23,06	1,5	226,2186	7,07	31,99697313
14.58.51,45	34,61	1,65	339,5241	7,07	48,02321075
14.58.51,64	34,89	1,8	342,2709	7,07	48,4117256
14.58.51,83	37,94	1,95	372,1914	7,07	52,64376238
14.58.52,03	37,92	2,1	371,9952	7,07	52,61601132
14.58.52,22	40,57	2,25	397,9917	7,07	56,29302687
14.58.52,41	45,9	2,4	450,279	7,07	63,68868458
14.58.52,60	50,47	2,55	495,1107	7,07	70,02980198
14.58.52,79	146,99	2,7	1441,972	7,07	203,9564215
14.58.52,98	197,09	2,85	1933,453	7,07	273,4728289
14.58.53,17	228,01	3	2236,778	7,07	316,3759689
14.58.53,36	247,38	3,15	2426,798	7,07	343,2528713
14.58.53,55	263,21	3,3	2582,09	7,07	365,2178359
14.58.53,74	269,16	3,45	2640,46	7,07	373,4737765
14.58.53,94	270,46	3,6	2653,213	7,07	375,2775955
14.58.54,13	340,69	3,75	3342,169	7,07	472,7254455
14.58.54,32	12,29	3,9	120,5649	7,07	17,05302687
14.58.54,51	12,2	4,05	119,682	7,07	16,9281471
14.58.54,70	12,2	4,2	119,682	7,07	16,9281471
14.58.54,89	12,2	4,35	119,682	7,07	16,9281471



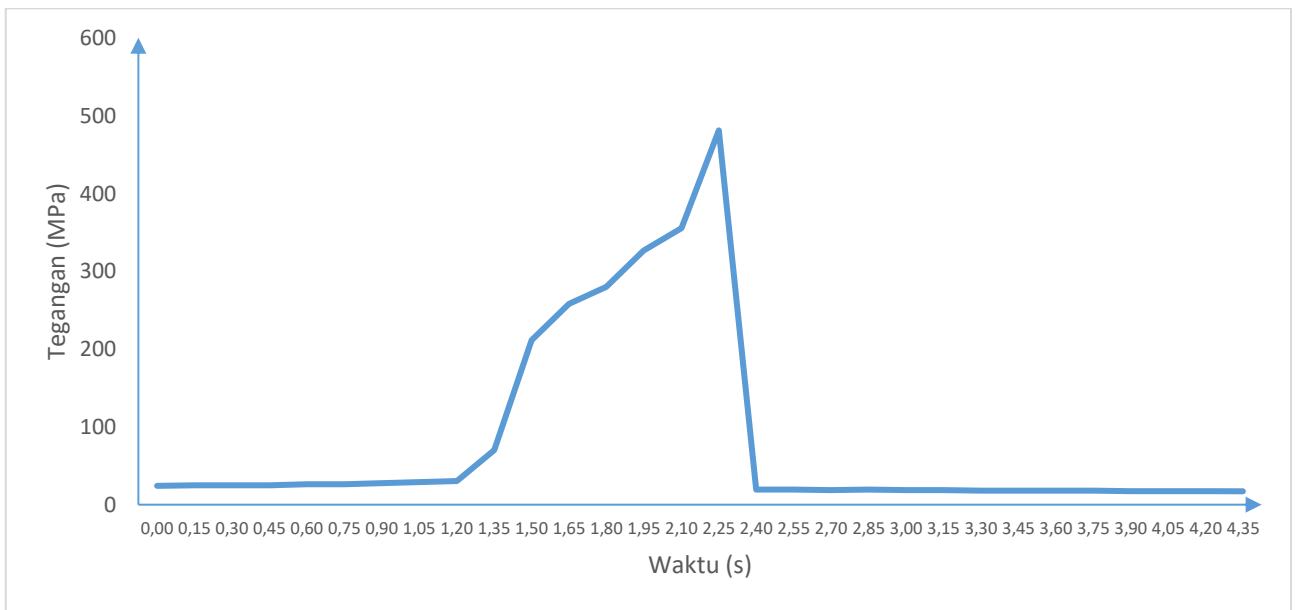
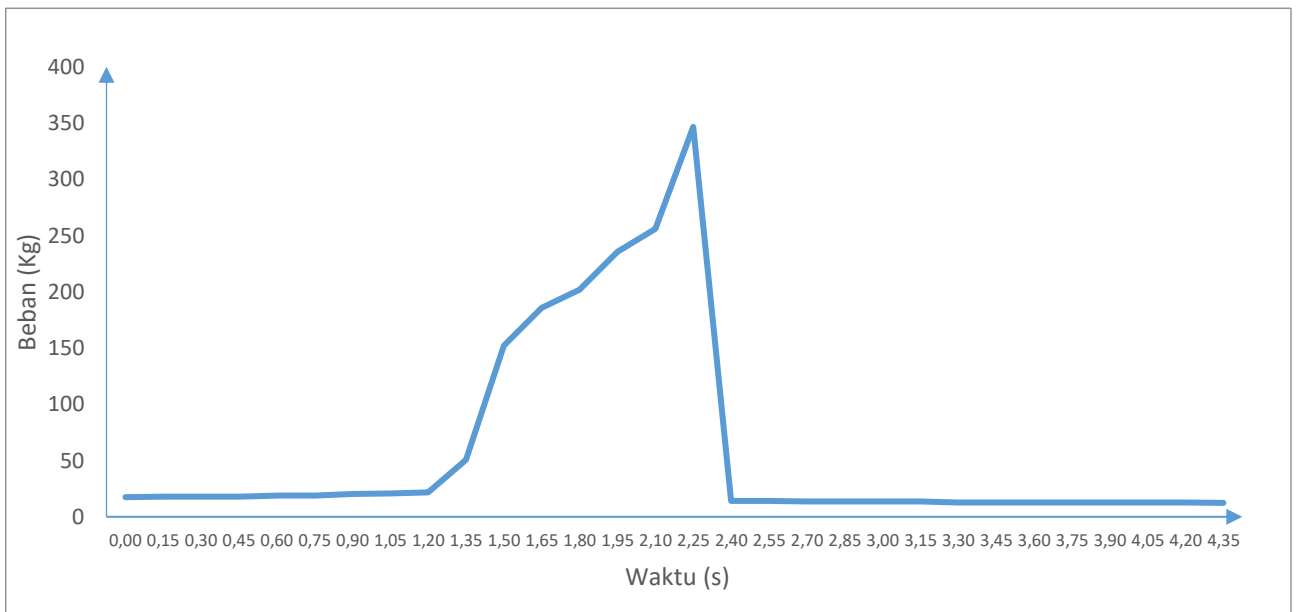
PENGUJIAN 4**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.02.19,99	14,02	0	137,5362	7,07	19,45349364
15.02.20,18	13,79	0,15	135,2799	7,07	19,13435644
15.02.20,37	13,64	0,3	133,8084	7,07	18,92622348
15.02.20,56	13,98	0,45	137,1438	7,07	19,39799151
15.02.20,76	19,3	0,6	189,333	7,07	26,77977369
15.02.20,95	19,33	0,75	189,6273	7,07	26,82140028
15.02.21,14	19,06	0,9	186,9786	7,07	26,44676096
15.02.21,33	18,94	1,05	185,8014	7,07	26,2802546
15.02.21,52	18,81	1,2	184,5261	7,07	26,0998727
15.02.21,71	25,32	1,35	248,3892	7,07	35,132843
15.02.21,90	27,14	1,5	266,2434	7,07	37,65818953
15.02.22,09	36,08	1,65	353,9448	7,07	50,06291372
15.02.22,28	45,67	1,8	448,0227	7,07	63,36954738
15.02.22,47	60,09	1,95	589,4829	7,07	83,37806223
15.02.22,67	167,79	2,1	1646,0199	7,07	232,8175248
15.02.22,86	215,7	2,25	2116,017	7,07	299,2951909
15.02.23,05	245,1	2,4	2404,431	7,07	340,0892504
15.02.23,24	259,21	2,55	2542,8501	7,07	359,6676238
15.02.23,43	336,95	2,7	3305,4795	7,07	467,5359972
15.02.23,62	67,82	2,85	665,3142	7,07	94,10384724
15.02.23,81	69,23	3	679,1463	7,07	96,06029703
15.02.24,00	69,21	3,15	678,9501	7,07	96,03254597
15.02.24,19	69,51	3,3	681,8931	7,07	96,44881188
15.02.24,38	68,39	3,45	670,9059	7,07	94,89475248
15.02.24,58	68,25	3,6	669,5325	7,07	94,70049505
15.02.24,77	67,75	3,75	664,6275	7,07	94,00671853
15.02.24,96	67,08	3,9	658,0548	7,07	93,07705799
15.02.25,15	66,57	4,05	653,0517	7,07	92,36940594
15.02.25,34	66,04	4,2	647,8524	7,07	91,63400283
15.02.25,53	65,66	4,35	644,1246	7,07	91,10673267



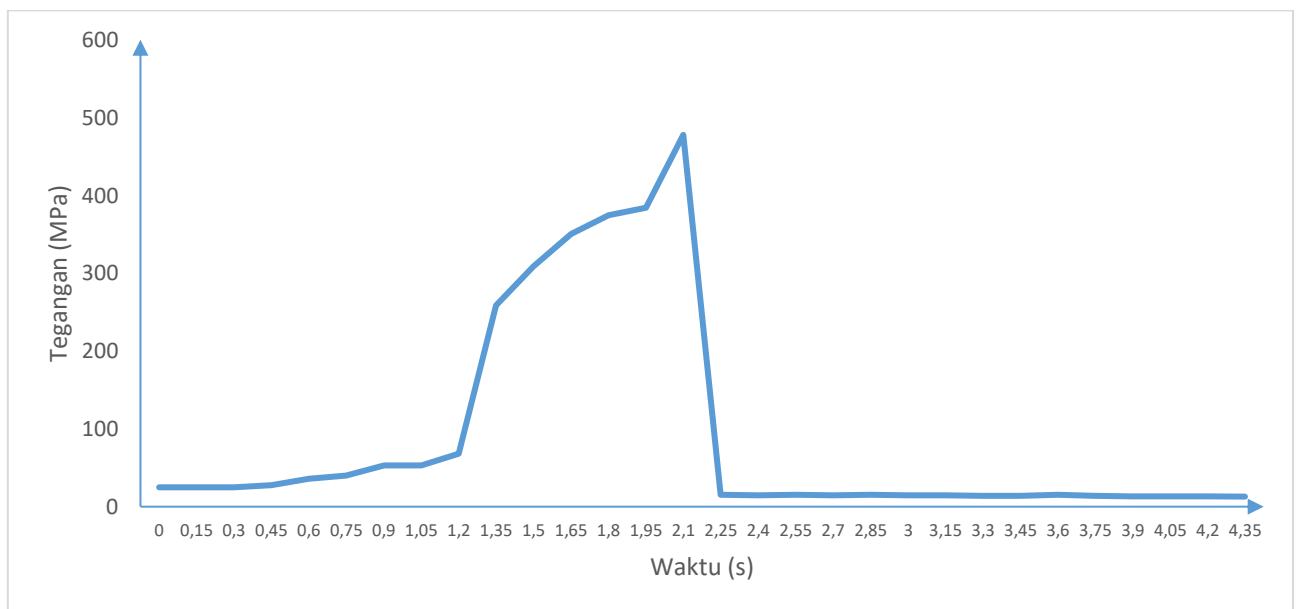
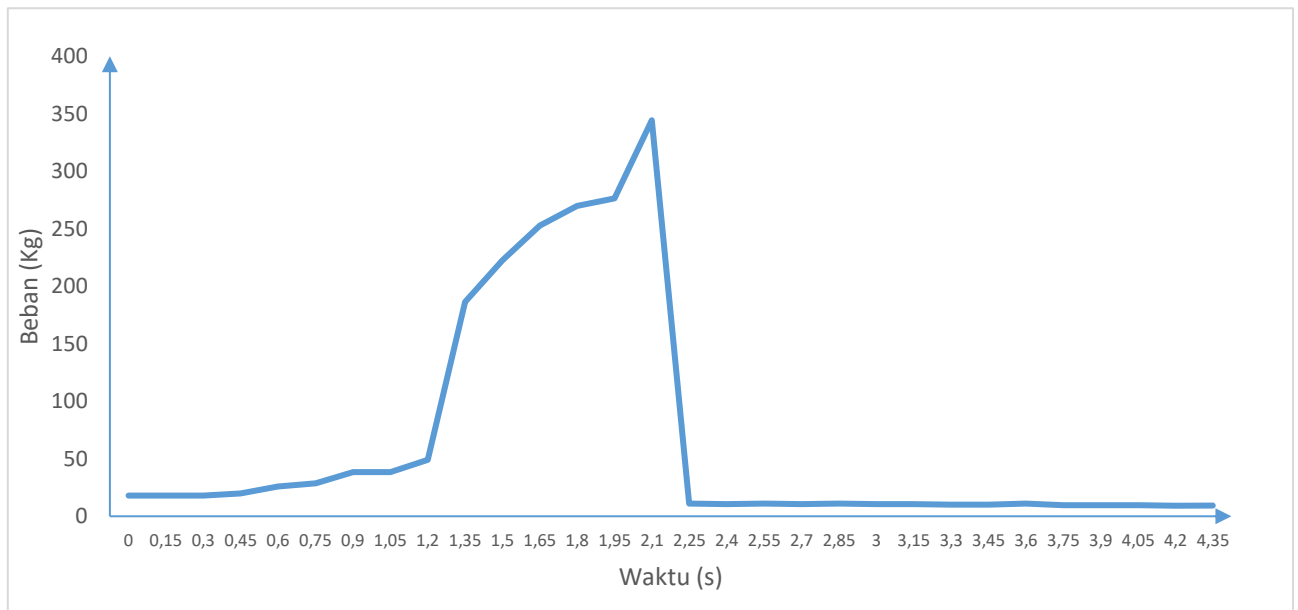
PENGUJIAN 5**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.05.28,82	17,61	0,00	172,7541	7,07	24,43480905
15.05.29,01	17,8	0,15	174,618	7,07	24,69844413
15.05.29,20	17,9	0,30	175,599	7,07	24,83719943
15.05.29,39	18,01	0,45	176,6781	7,07	24,98983027
15.05.29,59	18,77	0,60	184,1337	7,07	26,04437058
15.05.29,78	18,95	0,75	185,8995	7,07	26,29413013
15.05.29,97	20,09	0,90	197,0829	7,07	27,87594059
15.05.30,16	20,7	1,05	203,067	7,07	28,72234795
15.05.30,35	21,9	1,20	214,839	7,07	30,3874116
15.05.30,54	50,69	1,35	497,2689	7,07	70,33506365
15.05.30,73	152,3	1,50	1494,063	7,07	211,3243281
15.05.30,92	185,7	1,65	1821,717	7,07	257,6685997
15.05.31,11	201,69	1,80	1978,5789	7,07	279,8555728
15.05.31,31	235,44	1,95	2309,6664	7,07	326,685488
15.05.31,50	256,04	2,10	2511,7524	7,07	355,2690806
15.05.31,69	346,6	2,25	3400,146	7,07	480,925884
15.05.31,88	14,16	2,40	138,9096	7,07	19,64775106
15.05.32,07	13,99	2,55	137,2419	7,07	19,41186704
15.05.32,26	13,6	2,70	133,416	7,07	18,87072136
15.05.32,45	13,75	2,85	134,8875	7,07	19,07885431
15.05.32,64	13,6	3,00	133,416	7,07	18,87072136
15.05.32,83	13,56	3,15	133,0236	7,07	18,81521924
15.05.33,02	12,92	3,30	126,7452	7,07	17,92718529
15.05.33,21	12,94	3,45	126,9414	7,07	17,95493635
15.05.33,40	12,84	3,60	125,9604	7,07	17,81618105
15.05.33,60	12,81	3,75	125,6661	7,07	17,77455446
15.05.33,79	12,73	3,90	124,8813	7,07	17,66355021
15.05.33,98	12,7	4,05	124,587	7,07	17,62192362
15.05.34,17	12,55	4,20	123,1155	7,07	17,41379066
15.05.34,36	12,4	4,35	121,644	7,07	17,20565771



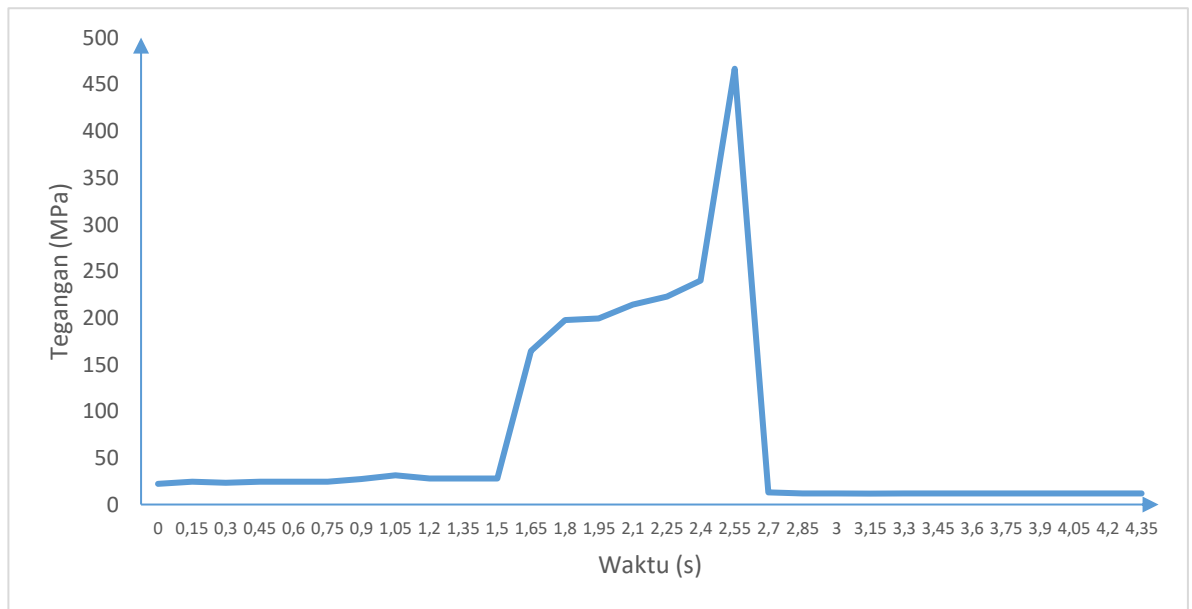
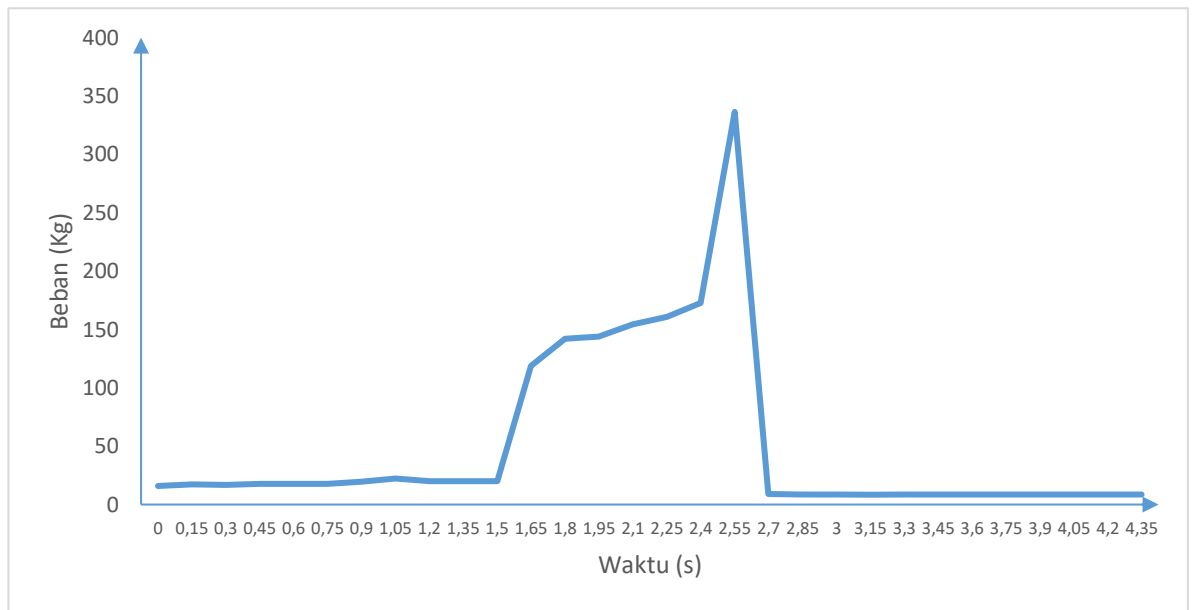
PENGUJIAN 6**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.06.36,22	18,08	0	177,3648	7,07	25,08695898
15.06.36,41	18,01	0,15	176,6781	7,07	24,98983027
15.06.36,60	17,84	0,3	175,0104	7,07	24,75394625
15.06.36,79	19,96	0,45	195,8076	7,07	27,6955587
15.06.36,98	25,88	0,6	253,8828	7,07	35,9098727
15.06.37,17	28,86	0,75	283,1166	7,07	40,04478076
15.06.37,37	38,28	0,9	375,5268	7,07	53,11553041
15.06.37,56	38,18	1,05	374,5458	7,07	52,97677511
15.06.37,75	49,24	1,2	483,0444	7,07	68,32311174
15.06.37,94	186,58	1,35	1830,35	7,07	258,8896464
15.06.38,13	222,54	1,5	2183,117	7,07	308,7860537
15.06.38,32	252,75	1,65	2479,478	7,07	350,7040311
15.06.38,51	269,74	1,8	2646,149	7,07	374,2785573
15.06.38,70	276,55	1,95	2712,956	7,07	383,7277935
15.06.38,89	344,33	2,1	3377,877	7,07	477,7761386
15.06.39,08	10,8	2,25	105,948	7,07	14,98557284
15.06.39,28	10,45	2,4	102,5145	7,07	14,49992928
15.06.39,47	10,91	2,55	107,0271	7,07	15,13820368
15.06.39,66	10,35	2,7	101,5335	7,07	14,36117397
15.06.39,85	10,93	2,85	107,2233	7,07	15,16595474
15.06.40,04	10,68	3	104,7708	7,07	14,81906648
15.06.40,23	10,43	3,15	102,3183	7,07	14,47217822
15.06.40,42	10,2	3,3	100,062	7,07	14,15304102
15.06.40,61	10,04	3,45	98,4924	7,07	13,93103253
15.06.40,80	10,85	3,6	106,4385	7,07	15,0549505
15.06.40,99	9,78	3,75	95,9418	7,07	13,57026874
15.06.41,18	9,59	3,9	94,0779	7,07	13,30663366
15.06.41,38	9,49	4,05	93,0969	7,07	13,16787836
15.06.41,57	9,37	4,2	91,9197	7,07	13,00137199
15.06.41,76	9,3	4,35	91,233	7,07	12,90424328



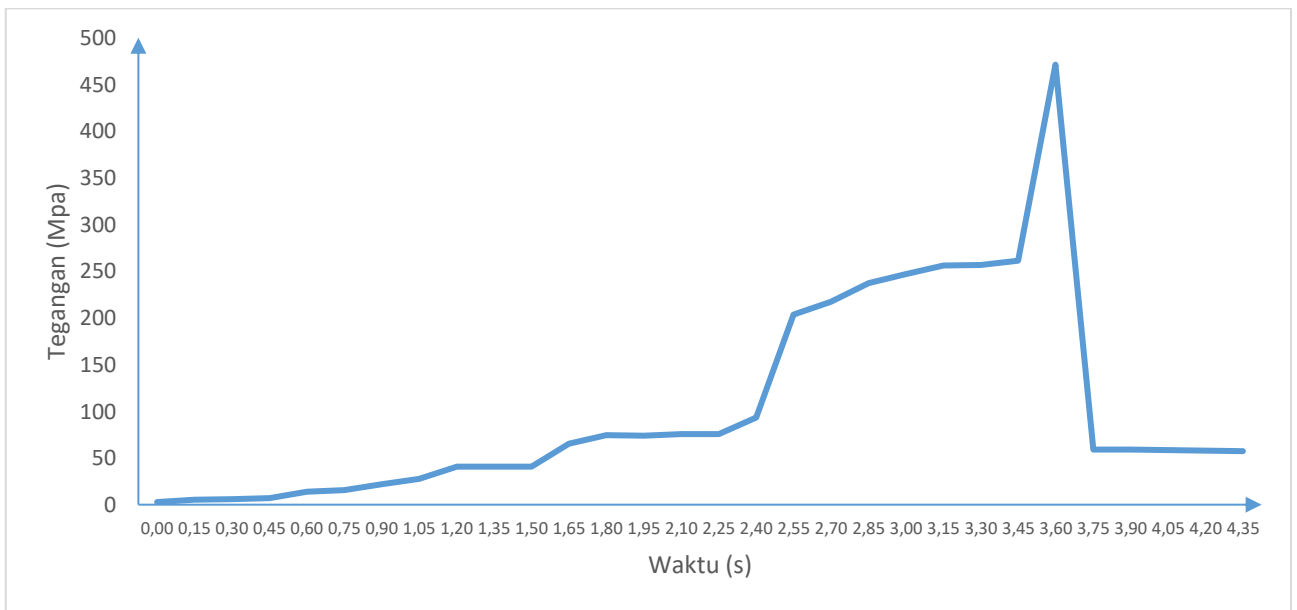
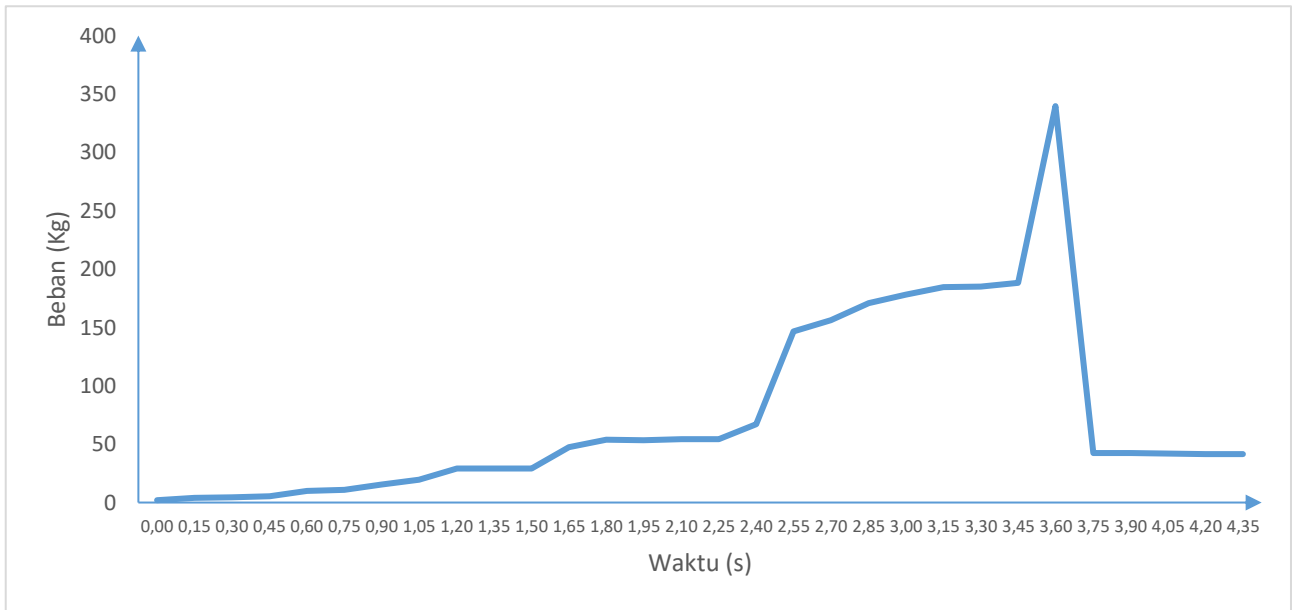
PENGUJIAN 7**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.09.10,87	15,82	0	155,1942	7,07	21,95108911
15.09.11,06	17,44	0,15	171,0864	7,07	24,19892504
15.09.11,25	16,77	0,3	164,5137	7,07	23,2692645
15.09.11,45	17,75	0,45	174,1275	7,07	24,62906648
15.09.11,64	17,7	0,6	173,637	7,07	24,55968883
15.09.11,83	17,57	0,75	172,3617	7,07	24,37930693
15.09.12,02	19,76	0,9	193,8456	7,07	27,41804809
15.09.12,21	22,41	1,05	219,8421	7,07	31,09506365
15.09.12,40	20,08	1,2	196,9848	7,07	27,86206506
15.09.12,59	20,11	1,35	197,2791	7,07	27,90369165
15.09.12,78	20,09	1,5	197,0829	7,07	27,87594059
15.09.12,97	118,58	1,65	1163,2698	7,07	164,5360396
15.09.13,17	142,24	1,8	1395,3744	7,07	197,3655446
15.09.13,36	143,7	1,95	1409,697	7,07	199,391372
15.09.13,55	154,34	2,1	1514,0754	7,07	214,1549364
15.09.13,74	160,61	2,25	1575,5841	7,07	222,8548939
15.09.13,93	172,7	2,4	1694,187	7,07	239,6304102
15.09.14,12	336,31	2,55	3299,2011	7,07	466,6479632
15.09.14,31	9,21	2,7	90,3501	7,07	12,77936351
15.09.14,50	8,66	2,85	84,9546	7,07	12,01620934
15.09.14,69	8,43	3	82,6983	7,07	11,69707214
15.09.14,88	8,42	3,15	82,6002	7,07	11,68319661
15.09.15,07	8,53	3,3	83,6793	7,07	11,83582744
15.09.15,26	8,57	3,45	84,0717	7,07	11,89132956
15.09.15,45	8,64	3,6	84,7584	7,07	11,98845827
15.09.15,65	8,58	3,75	84,1698	7,07	11,90520509
15.09.15,84	8,59	3,9	84,2679	7,07	11,91908062
15.09.16,03	8,58	4,05	84,1698	7,07	11,90520509
15.09.16,22	8,6	4,2	84,366	7,07	11,93295615
15.09.16,41	8,54	4,35	83,7774	7,07	11,84970297



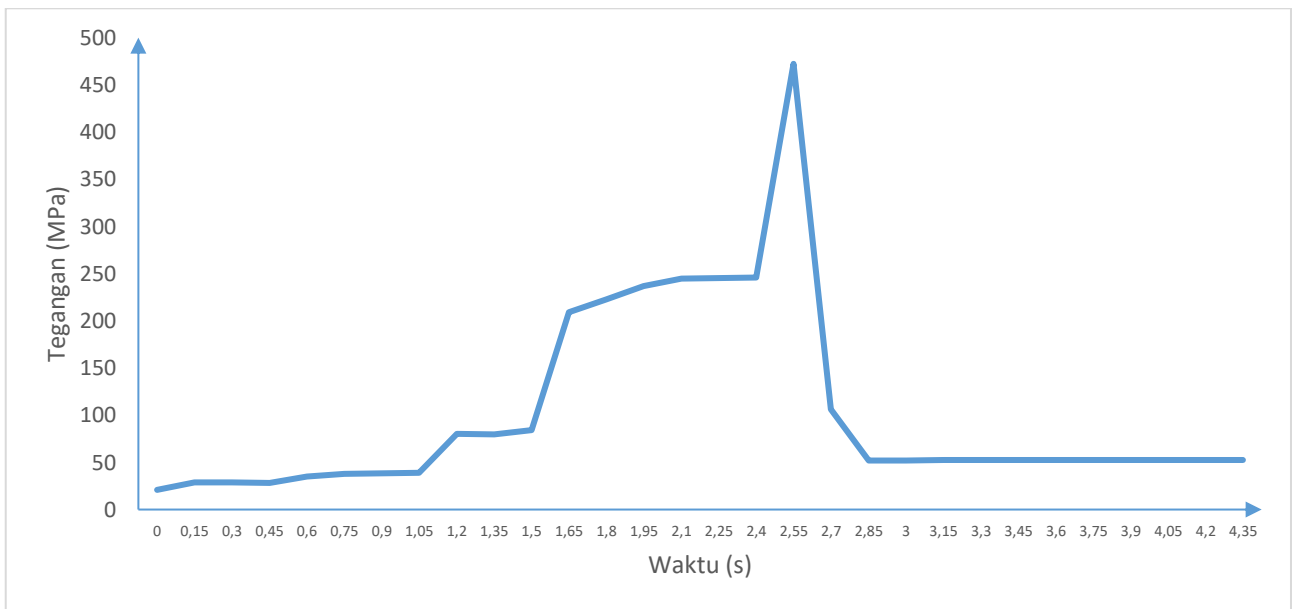
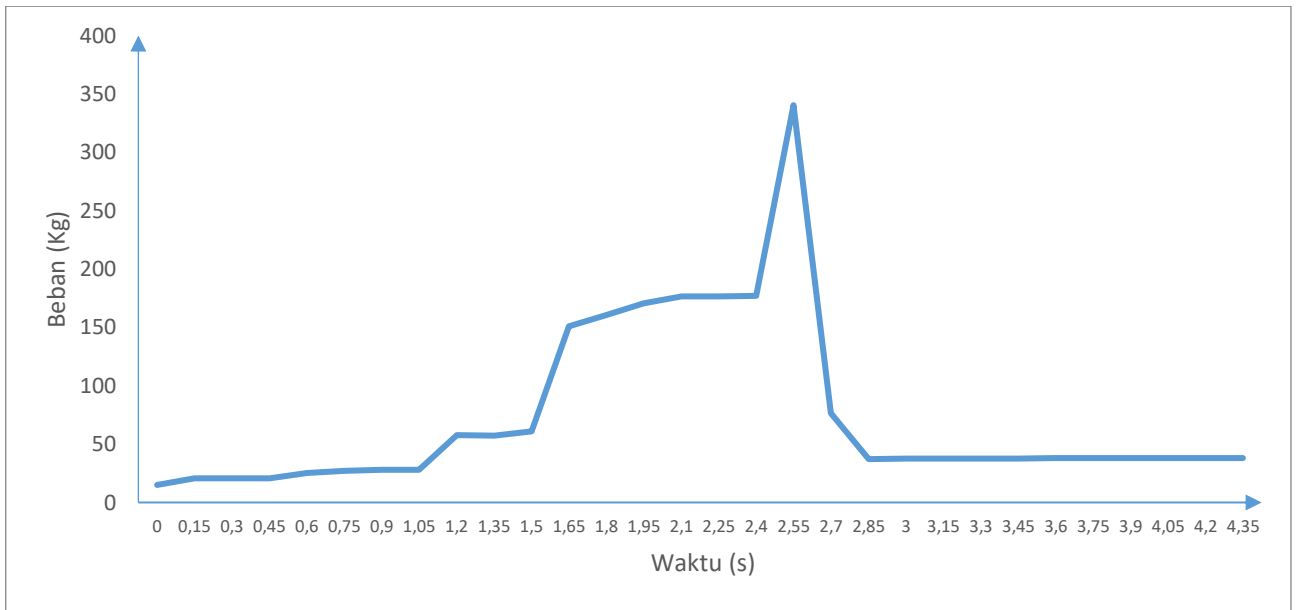
PENGUJIAN 8**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.10.02,43	2	0,00	19,62	7,07	2,775106082
15.10.02,62	3,8	0,15	37,278	7,07	5,272701556
15.10.02,81	4,42	0,30	43,3602	7,07	6,132984441
15.10.03,00	5,24	0,45	51,4044	7,07	7,270777935
15.10.03,19	10,1	0,60	99,081	7,07	14,01428571
15.10.03,38	11,06	0,75	108,4986	7,07	15,34633663
15.10.03,57	15,62	0,90	153,2322	7,07	21,6735785
15.10.03,76	19,75	1,05	193,7475	7,07	27,40417256
15.10.03,95	29,26	1,20	287,0406	7,07	40,59980198
15.10.04,14	29,18	1,35	286,2558	7,07	40,48879774
15.10.04,33	29,21	1,50	286,5501	7,07	40,53042433
15.10.04,53	47,24	1,65	463,4244	7,07	65,54800566
15.10.04,72	53,7	1,80	526,797	7,07	74,5115983
15.10.04,91	53,17	1,95	521,5977	7,07	73,77619519
15.10.05,10	54,39	2,10	533,5659	7,07	75,4690099
15.10.05,29	54,37	2,25	533,3697	7,07	75,44125884
15.10.05,48	67,22	2,40	659,4282	7,07	93,27131542
15.10.05,67	146,59	2,55	1438,0479	7,07	203,4014003
15.10.05,86	156,4	2,70	1534,284	7,07	217,0132956
15.10.06,06	170,88	2,85	1676,3328	7,07	237,1050636
15.10.06,25	178,02	3,00	1746,3762	7,07	247,0121924
15.10.06,44	184,64	3,15	1811,3184	7,07	256,1977935
15.10.06,63	184,98	3,30	1814,6538	7,07	256,6695615
15.10.06,82	188,3	3,45	1847,223	7,07	261,2762376
15.10.07,01	339,58	3,60	3331,2798	7,07	471,1852617
15.10.07,20	42,57	3,75	417,6117	7,07	59,06813296
15.10.07,39	42,54	3,90	417,3174	7,07	59,02650636
15.10.07,58	42,1	4,05	413,001	7,07	58,41598303
15.10.07,77	41,5	4,20	407,115	7,07	57,5834512
15.10.07,96	41,4	4,35	406,134	7,07	57,4446959



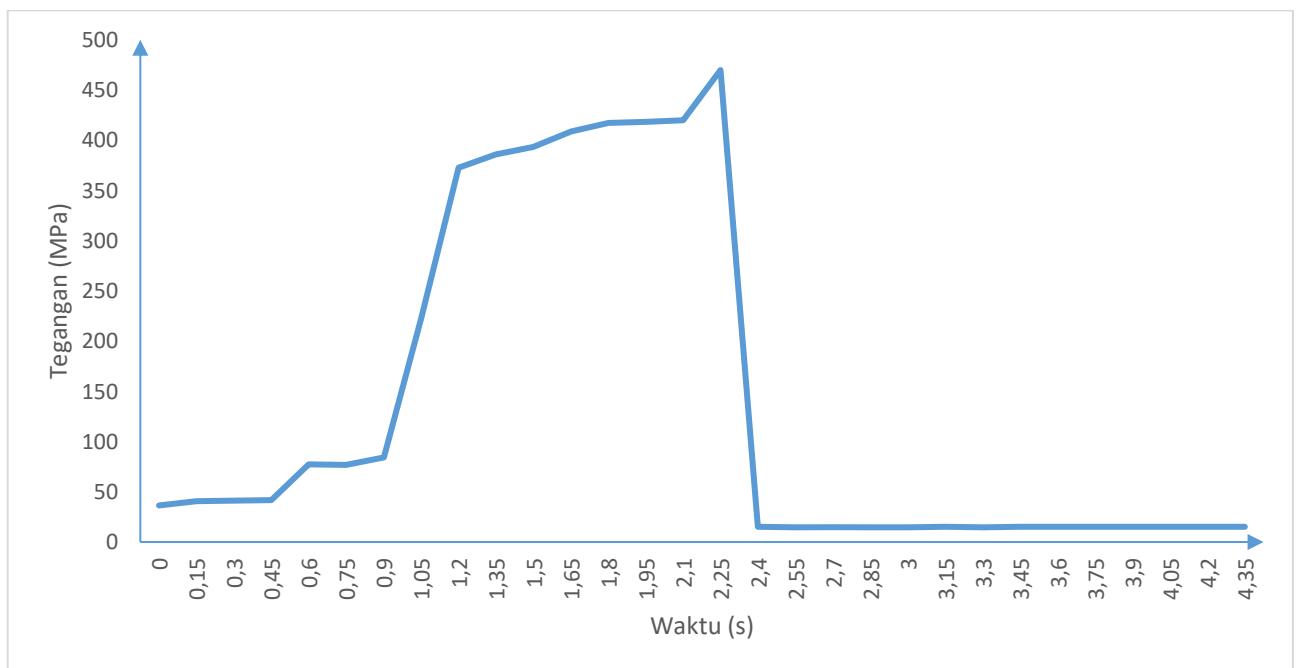
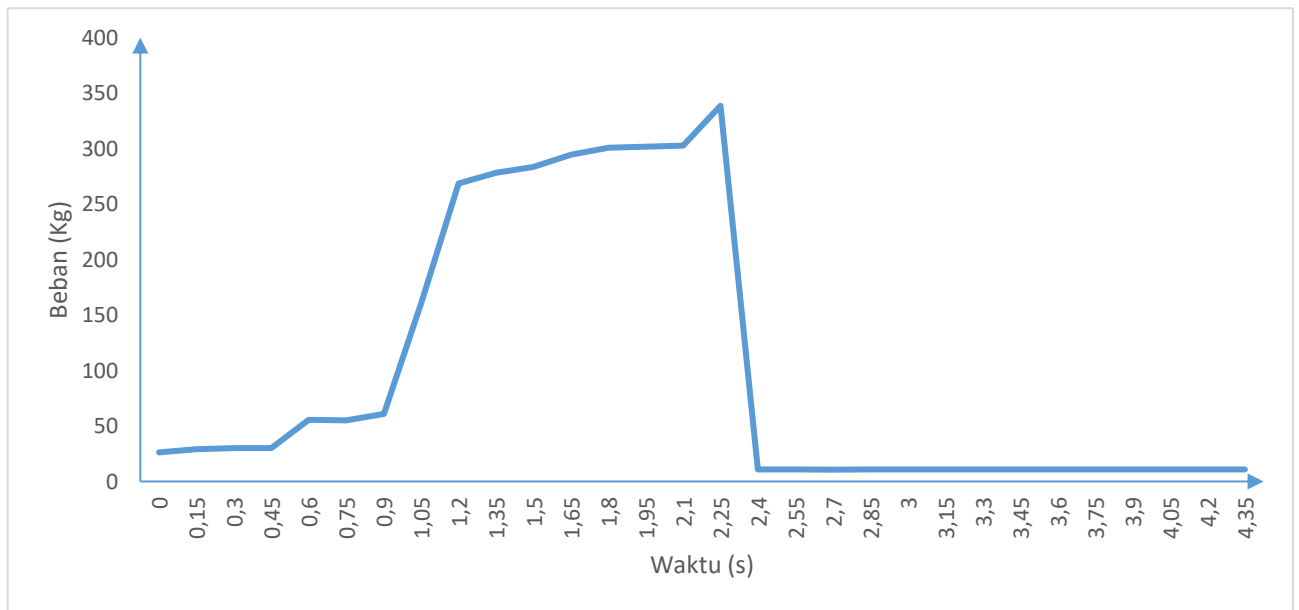
PENGUJIAN 9**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.10.48,44	15,02	0	147,3462	7,07	20,84104668
15.10.48,63	20,77	0,15	203,7537	7,07	28,81947666
15.10.48,82	20,64	0,3	202,4784	7,07	28,63909477
15.10.49,01	20,52	0,45	201,3012	7,07	28,4725884
15.10.49,20	25,21	0,6	247,3101	7,07	34,98021216
15.10.49,39	27,17	0,75	266,5377	7,07	37,69981612
15.10.49,59	27,85	0,9	273,2085	7,07	38,64335219
15.10.49,78	27,88	1,05	273,5028	7,07	38,68497878
15.10.49,97	57,78	1,2	566,8218	7,07	80,17281471
15.10.50,16	57,25	1,35	561,6225	7,07	79,4374116
15.10.50,35	60,82	1,5	596,6442	7,07	84,39097595
15.10.50,54	150,75	1,65	1478,8575	7,07	209,1736209
15.10.50,73	160,49	1,8	1574,4069	7,07	222,6883876
15.10.50,92	170,71	1,95	1674,6651	7,07	236,8691796
15.10.51,11	176,51	2,1	1731,5631	7,07	244,9169873
15.10.51,30	176,63	2,25	1732,7403	7,07	245,0834936
15.10.51,50	177,15	2,4	1737,8415	7,07	245,8050212
15.10.51,69	340,36	2,55	3338,9316	7,07	472,267553
15.10.51,88	76,59	2,7	751,3479	7,07	106,2726874
15.10.52,07	37,28	2,85	365,7168	7,07	51,72797737
15.10.52,26	37,59	3	368,7579	7,07	52,15811881
15.10.52,45	37,65	3,15	369,3465	7,07	52,24137199
15.10.52,64	37,76	3,3	370,4256	7,07	52,39400283
15.10.52,83	37,76	3,45	370,4256	7,07	52,39400283
15.10.53,02	37,84	3,6	371,2104	7,07	52,50500707
15.10.53,21	37,85	3,75	371,3085	7,07	52,5188826
15.10.53,40	37,88	3,9	371,6028	7,07	52,56050919
15.10.53,60	37,92	4,05	371,9952	7,07	52,61601132
15.10.53,79	37,9	4,2	371,799	7,07	52,58826025
15.10.53,98	37,93	4,35	372,0933	7,07	52,62988685



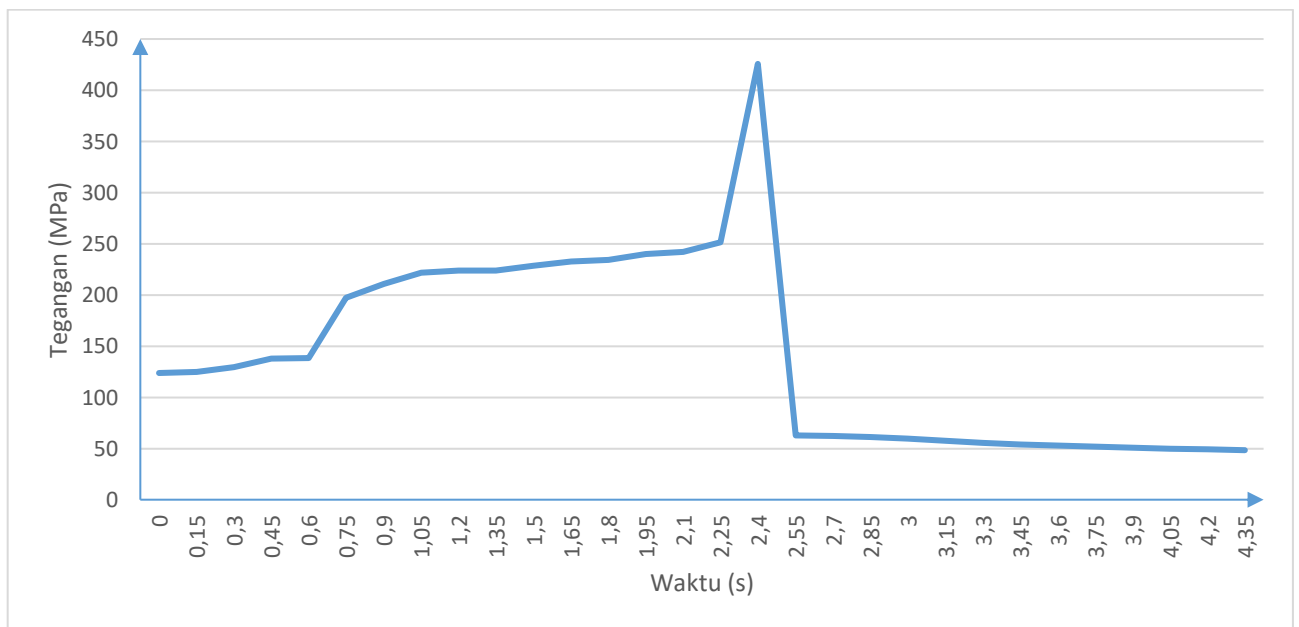
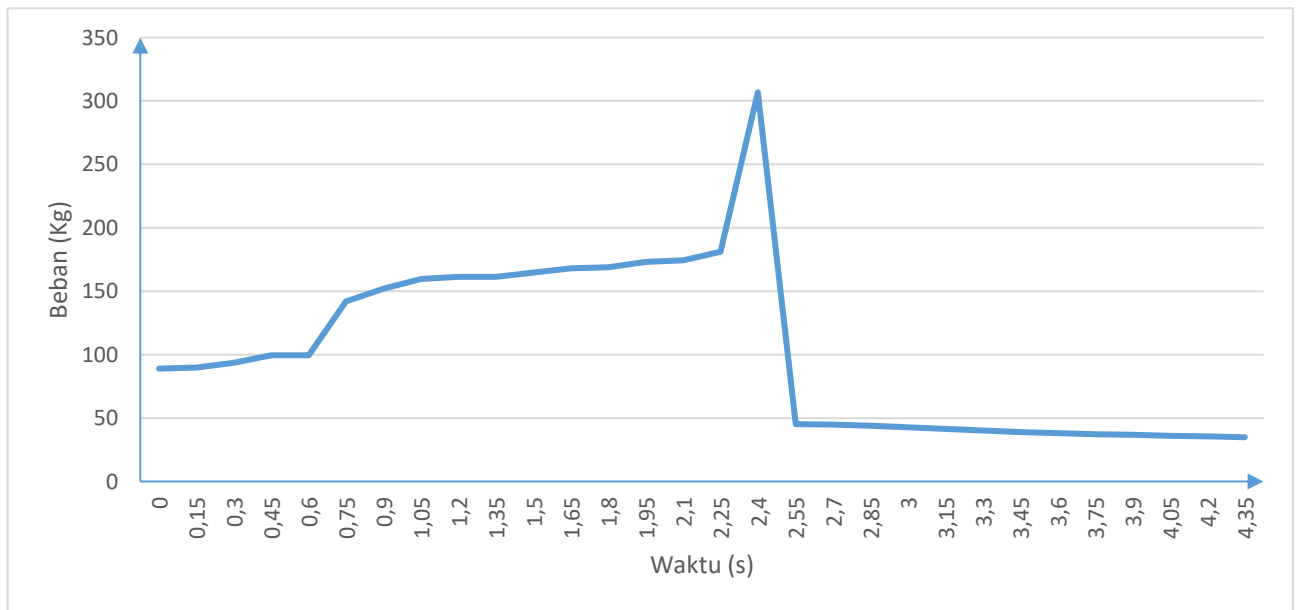
PENGUJIAN 10**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm2)	Tegangan (MPa)
15.11.38,27	26,21	0	257,1201	7,07	36,36776521
15.11.38,46	29,17	0,15	286,1577	7,07	40,47492221
15.11.38,65	29,85	0,3	292,8285	7,07	41,41845827
15.11.38,85	29,88	0,45	293,1228	7,07	41,46008487
15.11.39,04	55,78	0,6	547,2018	7,07	77,39770863
15.11.39,23	55,25	0,75	542,0025	7,07	76,66230552
15.11.39,42	60,82	0,9	596,6442	7,07	84,39097595
15.11.39,61	160,75	1,05	1576,9575	7,07	223,0491513
15.11.39,80	268,49	1,2	2633,8869	7,07	372,544116
15.11.39,99	278,11	1,35	2728,2591	7,07	385,8923762
15.11.40,18	283,51	1,5	2781,2331	7,07	393,3851627
15.11.40,37	294,63	1,65	2890,3203	7,07	408,8147525
15.11.40,56	300,71	1,8	2949,9651	7,07	417,251075
15.11.40,76	301,51	1,95	2957,8131	7,07	418,3611174
15.11.40,95	302,63	2,1	2968,8003	7,07	419,9151768
15.11.41,14	338,59	2,25	3321,5679	7,07	469,8115842
15.11.41,33	11	2,4	107,91	7,07	15,26308345
15.11.41,52	10,66	2,55	104,5746	7,07	14,79131542
15.11.41,71	10,64	2,7	104,3784	7,07	14,76356436
15.11.41,90	10,67	2,85	104,6727	7,07	14,80519095
15.11.42,09	10,67	3	104,6727	7,07	14,80519095
15.11.42,28	10,77	3,15	105,6537	7,07	14,94394625
15.11.42,47	10,72	3,3	105,1632	7,07	14,8745686
15.11.42,66	10,76	3,45	105,5556	7,07	14,93007072
15.11.42,85	10,73	3,6	105,2613	7,07	14,88844413
15.11.43,05	10,78	3,75	105,7518	7,07	14,95782178
15.11.43,24	10,75	3,9	105,4575	7,07	14,91619519
15.11.43,43	10,77	4,05	105,6537	7,07	14,94394625
15.11.43,62	10,78	4,2	105,7518	7,07	14,95782178
15.11.43,81	10,77	4,35	105,6537	7,07	14,94394625



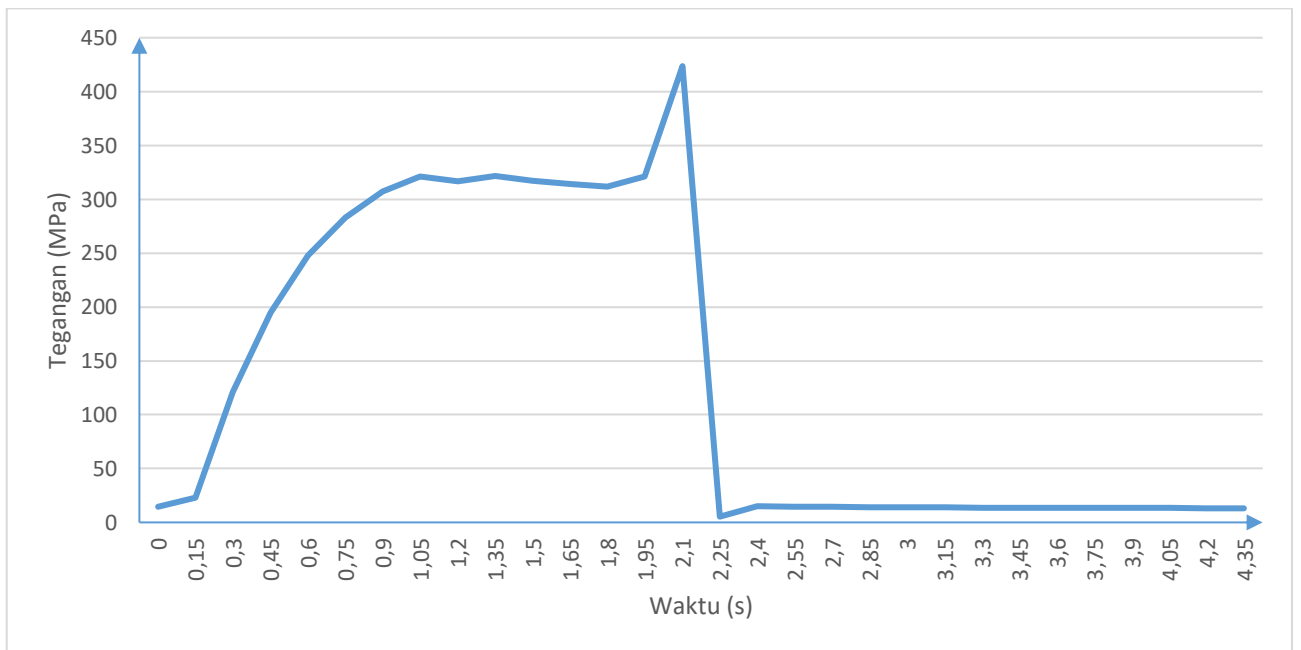
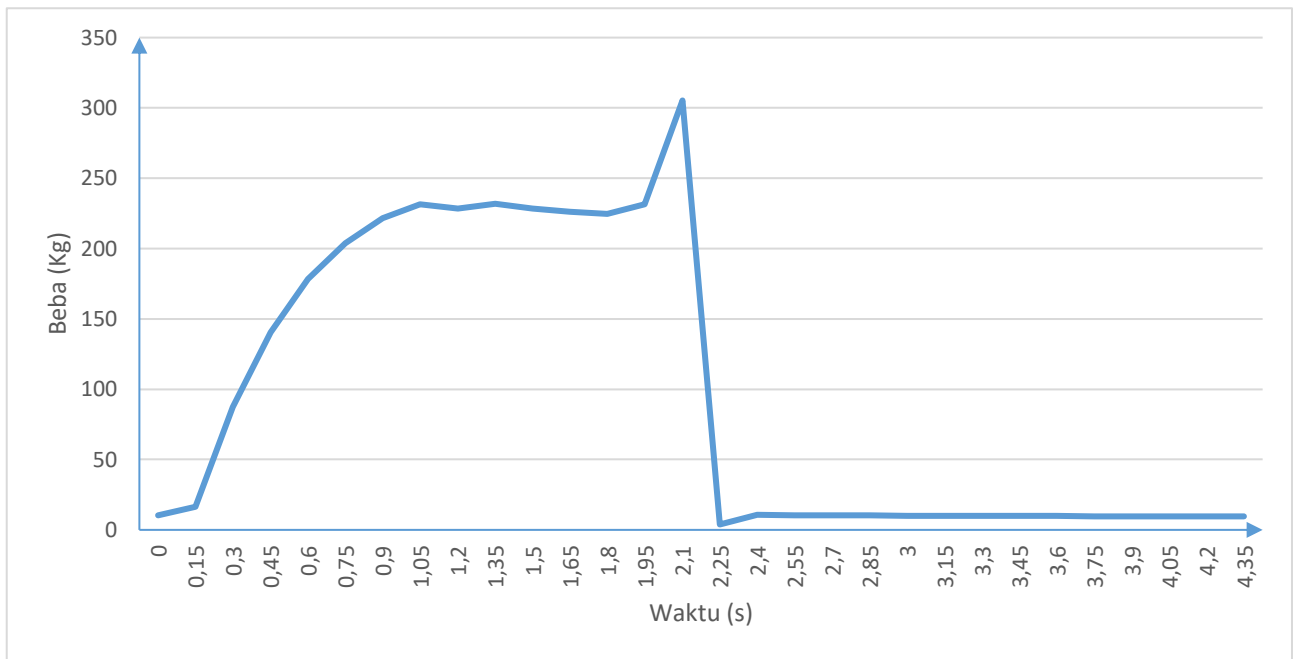
PENGUJIAN TREATMENT 1**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.24.46,67	89,03	0	873,3843	7,07	123,5338472
15.24.46,86	89,76	0,15	880,5456	7,07	124,546761
15.24.47,05	93,41	0,3	916,3521	7,07	129,6113296
15.24.47,24	99,51	0,45	976,1931	7,07	138,0754031
15.24.47,43	99,64	0,6	977,4684	7,07	138,255785
15.24.47,62	142,02	0,75	1393,216	7,07	197,0602829
15.24.47,81	152,03	0,9	1491,414	7,07	210,9496888
15.24.48,00	159,76	1,05	1567,246	7,07	221,6754738
15.24.48,20	161,41	1,2	1583,432	7,07	223,9649364
15.24.48,39	161,25	1,35	1581,863	7,07	223,7429279
15.24.48,58	164,58	1,5	1614,53	7,07	228,3634795
15.24.48,77	167,87	1,65	1646,805	7,07	232,928529
15.24.48,96	168,98	1,8	1657,694	7,07	234,4687129
15.24.49,15	173,1	1,95	1698,111	7,07	240,1854314
15.24.49,34	174,29	2,1	1709,785	7,07	241,8366195
15.24.49,53	181,16	2,25	1777,18	7,07	251,3691089
15.24.49,72	306,79	2,4	3009,61	7,07	425,6873975
15.24.49,91	45,3	2,55	444,393	7,07	62,85615276
15.24.50,10	44,93	2,7	440,7633	7,07	62,34275813
15.24.50,30	44,14	2,85	433,0134	7,07	61,24659123
15.24.50,49	42,87	3	420,5547	7,07	59,48439887
15.24.50,68	41,32	3,15	405,3492	7,07	57,33369165
15.24.50,87	40,03	3,3	392,6943	7,07	55,54374823
15.24.51,06	39,01	3,45	382,6881	7,07	54,12844413
15.24.51,25	38,12	3,6	373,9572	7,07	52,89352192
15.24.51,44	37,41	3,75	366,9921	7,07	51,90835926
15.24.51,63	36,67	3,9	359,7327	7,07	50,88157001
15.24.51,82	35,96	4,05	352,7676	7,07	49,89640736
15.24.52,02	35,4	4,2	347,274	7,07	49,11937765
15.24.52,21	34,86	4,35	341,9766	7,07	48,37009901



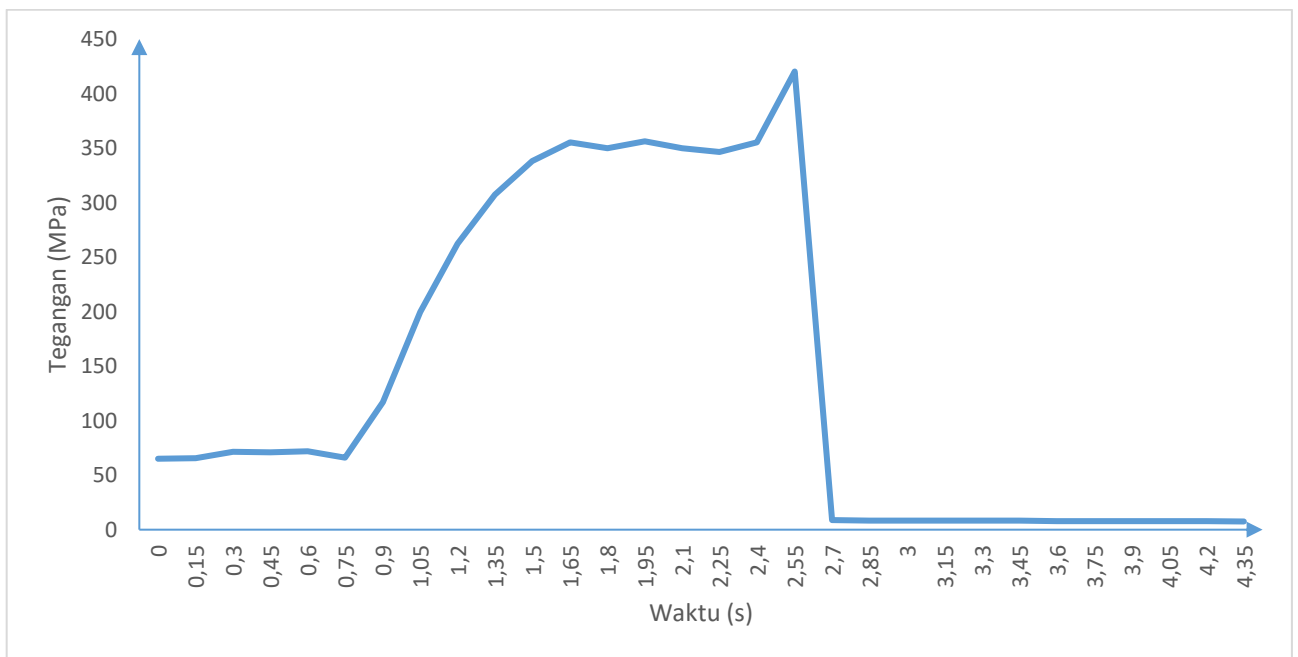
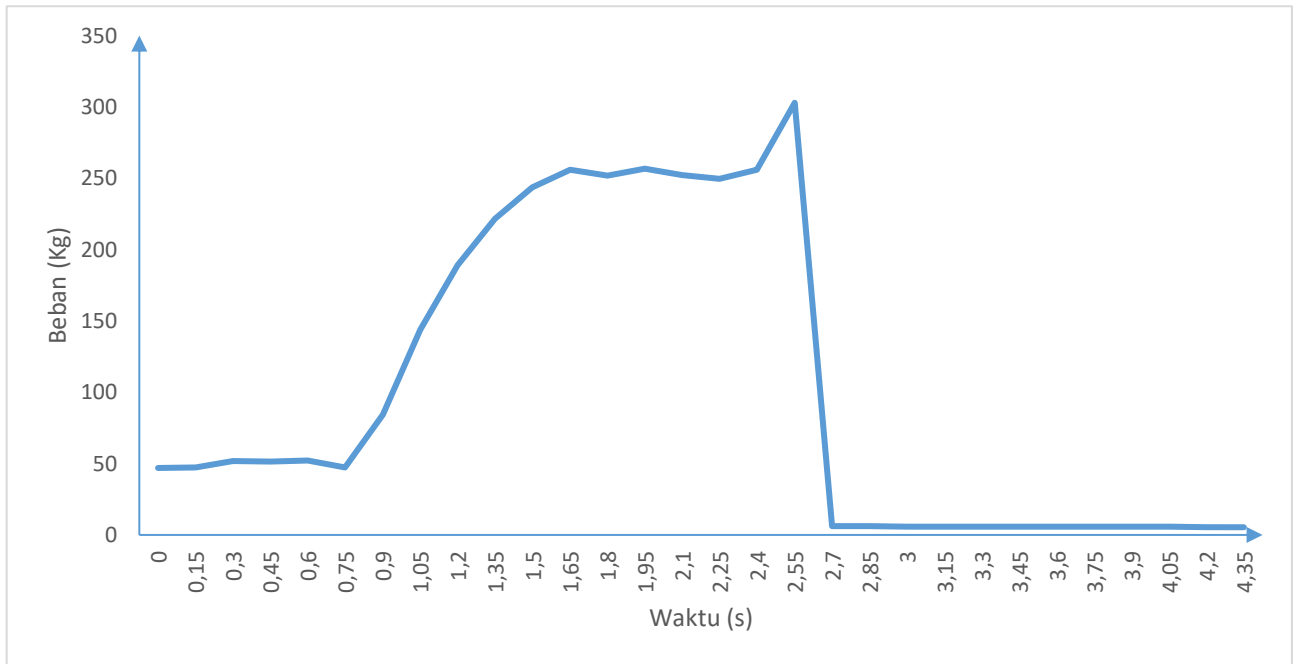
PENGUJIAN TREATMENT 2**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.21.35,33	10,34	0	101,4354	7,07	14,34729844
15.21.35,52	16,43	0,15	161,1783	7,07	22,79749646
15.21.35,71	87,33	0,3	856,7073	7,07	121,1750071
15.21.35,90	140,44	0,45	1377,7164	7,07	194,8679491
15.21.36,09	178,48	0,6	1750,8888	7,07	247,6504668
15.21.36,28	203,92	0,75	2000,4552	7,07	282,9498161
15.21.36,47	221,43	0,9	2172,2283	7,07	307,2458699
15.21.36,66	231,44	1,05	2270,4264	7,07	321,1352758
15.21.36,85	228,27	1,2	2239,3287	7,07	316,7367327
15.21.37,04	231,9	1,35	2274,939	7,07	321,7735502
15.21.37,24	228,47	1,5	2241,2907	7,07	317,0142433
15.21.37,43	226,35	1,65	2220,4935	7,07	314,0726308
15.21.37,62	224,77	1,8	2204,9937	7,07	311,880297
15.21.37,81	231,33	1,95	2269,3473	7,07	320,982645
15.21.38,00	305,3	2,1	2994,993	7,07	423,6199434
15.21.38,19	3,84	2,25	37,6704	7,07	5,328203678
15.21.38,38	10,76	2,4	105,5556	7,07	14,93007072
15.21.38,57	10,51	2,55	103,1031	7,07	14,58318246
15.21.38,76	10,36	2,7	101,6316	7,07	14,3750495
15.21.38,95	10,23	2,85	100,3563	7,07	14,19466761
15.21.39,15	10,15	3	99,5715	7,07	14,08366337
15.21.39,34	10,03	3,15	98,3943	7,07	13,917157
15.21.39,53	9,93	3,3	97,4133	7,07	13,7784017
15.21.39,72	9,88	3,45	96,9228	7,07	13,70902405
15.21.39,91	9,8	3,6	96,138	7,07	13,5980198
15.21.40,10	9,74	3,75	95,5494	7,07	13,51476662
15.21.40,29	9,67	3,9	94,8627	7,07	13,41763791
15.21.40,48	9,61	4,05	94,2741	7,07	13,33438472
15.21.40,67	9,57	4,2	93,8817	7,07	13,2788826
15.21.40,86	9,5	4,35	93,195	7,07	13,18175389



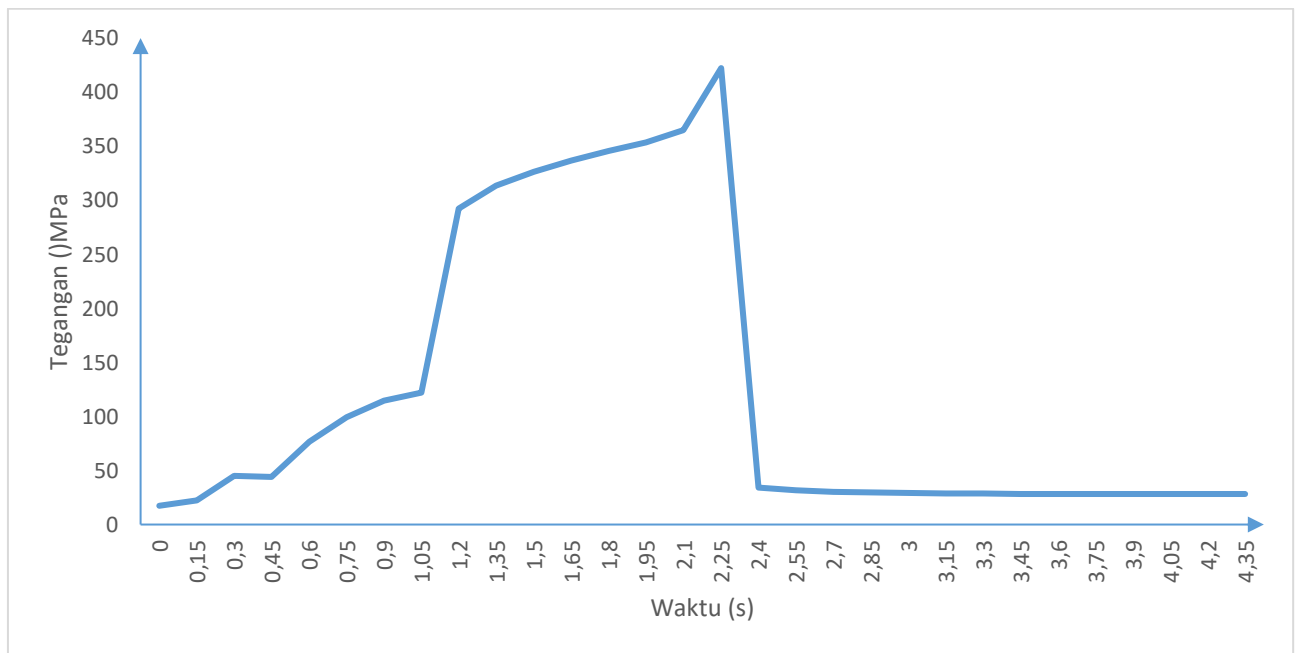
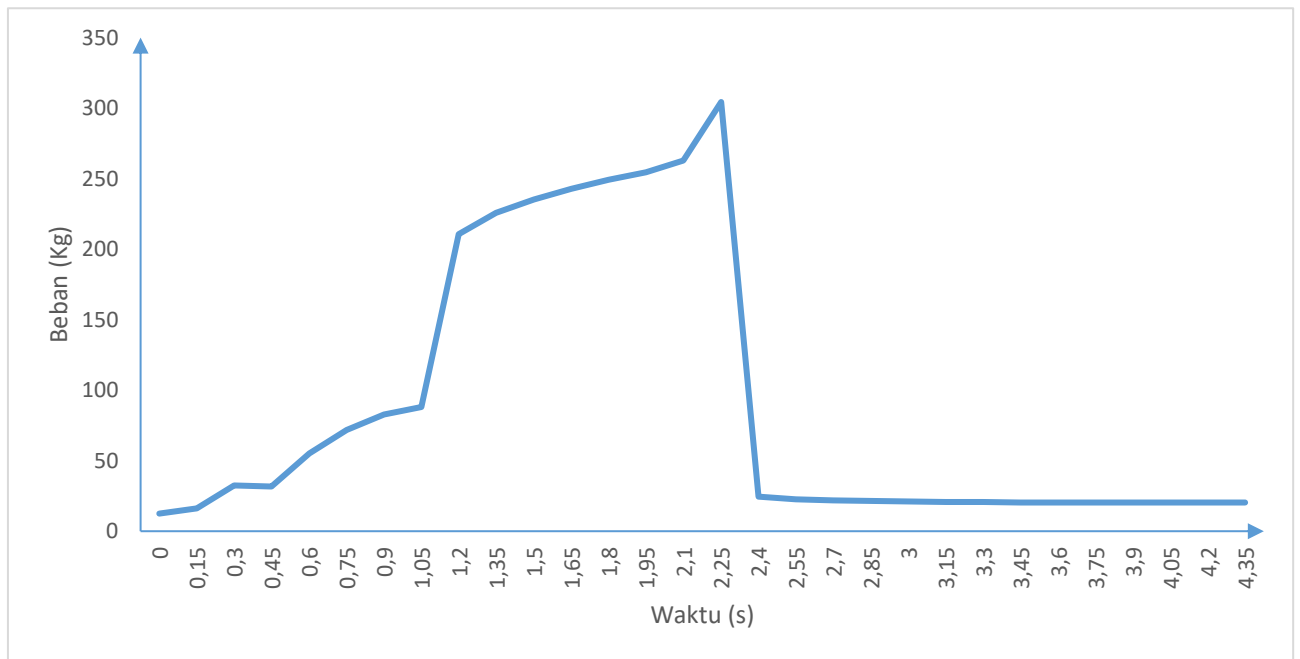
PENGUJIAN TREATMENT 3**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.26.25,78	46,91	0	460,1871	7,07	65,09011315
15.26.25,97	47,18	0,15	462,8358	7,07	65,46475248
15.26.26,16	51,63	0,3	506,4903	7,07	71,63936351
15.26.26,35	51,29	0,45	503,1549	7,07	71,16759547
15.26.26,54	52	0,6	510,12	7,07	72,15275813
15.26.26,73	47,46	0,75	465,5826	7,07	65,85326733
15.26.26,92	84,24	0,9	826,3944	7,07	116,8874682
15.26.27,11	143,95	1,05	1412,1495	7,07	199,7382603
15.26.27,31	188,88	1,2	1852,9128	7,07	262,0810184
15.26.27,50	221,57	1,35	2173,6017	7,07	307,4401273
15.26.27,69	243,55	1,5	2389,2255	7,07	337,9385431
15.26.27,88	256,14	1,65	2512,7334	7,07	355,4078359
15.26.28,07	251,99	1,8	2472,0219	7,07	349,6494908
15.26.28,26	256,71	1,95	2518,3251	7,07	356,1987412
15.26.28,45	252,26	2,1	2474,6706	7,07	350,0241301
15.26.28,64	249,57	2,25	2448,2817	7,07	346,2916124
15.26.28,83	256	2,4	2511,36	7,07	355,2135785
15.26.29,02	302,9	2,55	2971,449	7,07	420,2898161
15.26.29,21	6,29	2,7	61,7049	7,07	8,727708628
15.26.29,41	6,01	2,85	58,9581	7,07	8,339193777
15.26.29,60	5,91	3	57,9771	7,07	8,200438472
15.26.29,79	5,83	3,15	57,1923	7,07	8,089434229
15.26.29,98	5,82	3,3	57,0942	7,07	8,075558699
15.26.30,17	5,81	3,45	56,9961	7,07	8,061683168
15.26.30,36	5,75	3,6	56,4075	7,07	7,978429986
15.26.30,55	5,74	3,75	56,3094	7,07	7,964554455
15.26.30,74	5,72	3,9	56,1132	7,07	7,936803395
15.26.30,93	5,68	4,05	55,7208	7,07	7,881301273
15.26.31,12	5,55	4,2	54,4455	7,07	7,700919378
15.26.31,31	5,4	4,35	52,974	7,07	7,492786421



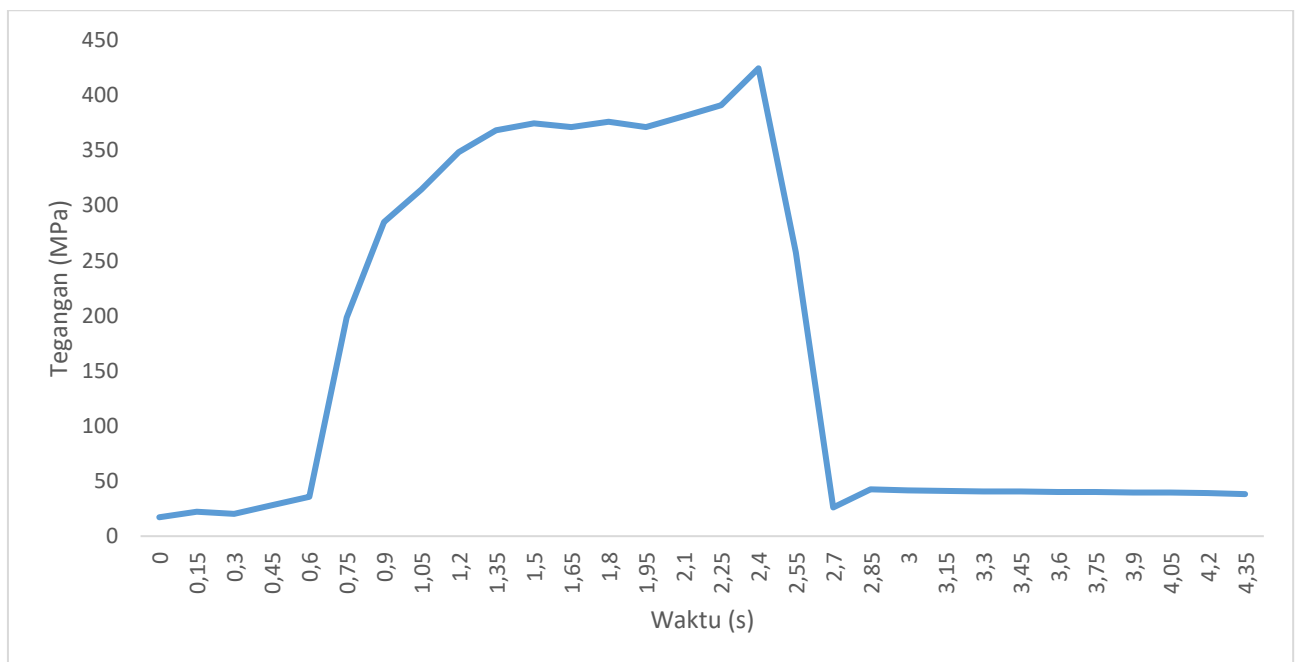
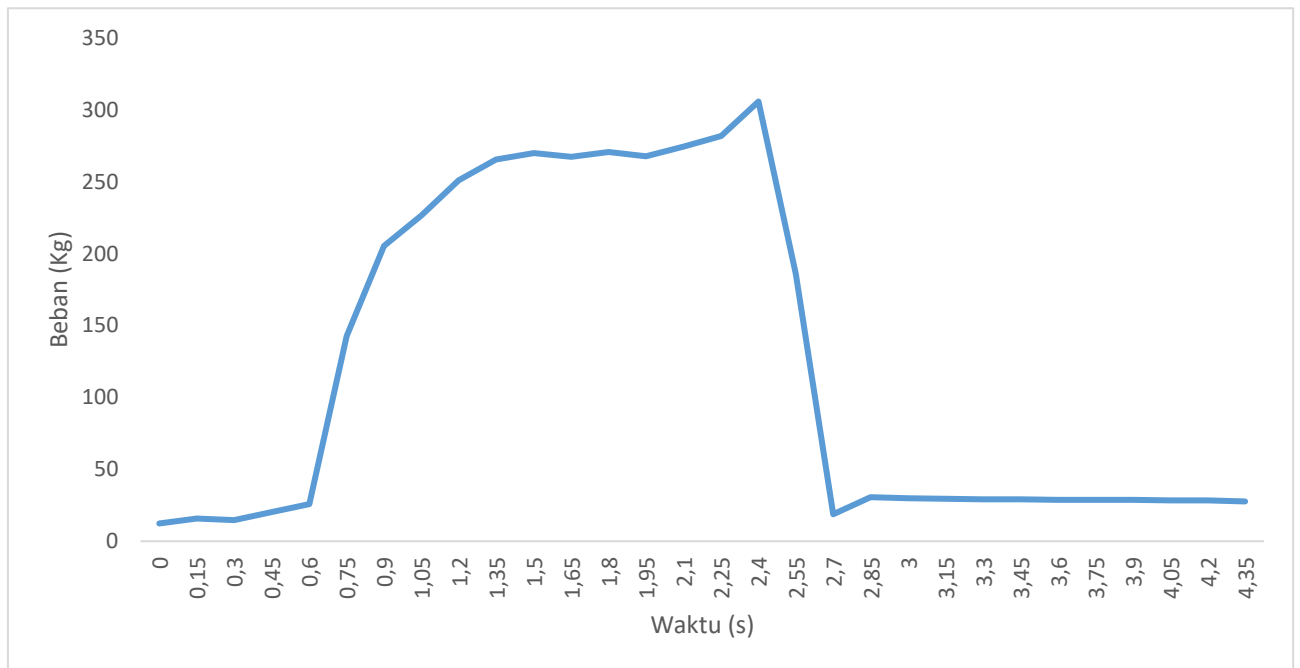
PENGUJIAN TREATMENT 4**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.27.38,34	12,5	0	122,625	7,07	17,34441301
15.27.38,53	16,2	0,15	158,922	7,07	22,47835926
15.27.38,72	32,4	0,3	317,844	7,07	44,95671853
15.27.38,91	31,8	0,45	311,958	7,07	44,1241867
15.27.39,10	55,3	0,6	542,493	7,07	76,73168317
15.27.39,30	71,6	0,75	702,396	7,07	99,34879774
15.27.39,49	82,7	0,9	811,287	7,07	114,7506365
15.27.39,68	88,1	1,05	864,261	7,07	122,2434229
15.27.39,87	210,5	1,2	2065,005	7,07	292,0799151
15.27.40,06	225,8	1,35	2215,098	7,07	313,3094767
15.27.40,25	235,3	1,5	2308,293	7,07	326,4912306
15.27.40,44	242,7	1,65	2380,887	7,07	336,7591231
15.27.40,63	249,2	1,8	2444,652	7,07	345,7782178
15.27.40,82	254,6	1,95	2497,626	7,07	353,2710042
15.27.41,01	262,8	2,1	2578,068	7,07	364,6489392
15.27.41,21	304,32	2,25	2985,3792	7,07	422,2601414
15.27.41,40	24,6	2,4	241,326	7,07	34,13380481
15.27.41,59	22,8	2,55	223,668	7,07	31,63620934
15.27.41,78	21,9	2,7	214,839	7,07	30,3874116
15.27.41,97	21,4	2,85	209,934	7,07	29,69363508
15.27.42,16	21	3	206,01	7,07	29,13861386
15.27.42,35	20,7	3,15	203,067	7,07	28,72234795
15.27.42,54	20,6	3,3	202,086	7,07	28,58359264
15.27.42,73	20,5	3,45	201,105	7,07	28,44483734
15.27.42,92	20,4	3,6	200,124	7,07	28,30608204
15.27.43,11	20,4	3,75	200,124	7,07	28,30608204
15.27.43,31	20,3	3,9	199,143	7,07	28,16732673
15.27.43,50	20,3	4,05	199,143	7,07	28,16732673
15.27.43,69	20,2	4,2	198,162	7,07	28,02857143
15.27.43,88	20,2	4,35	198,162	7,07	28,02857143



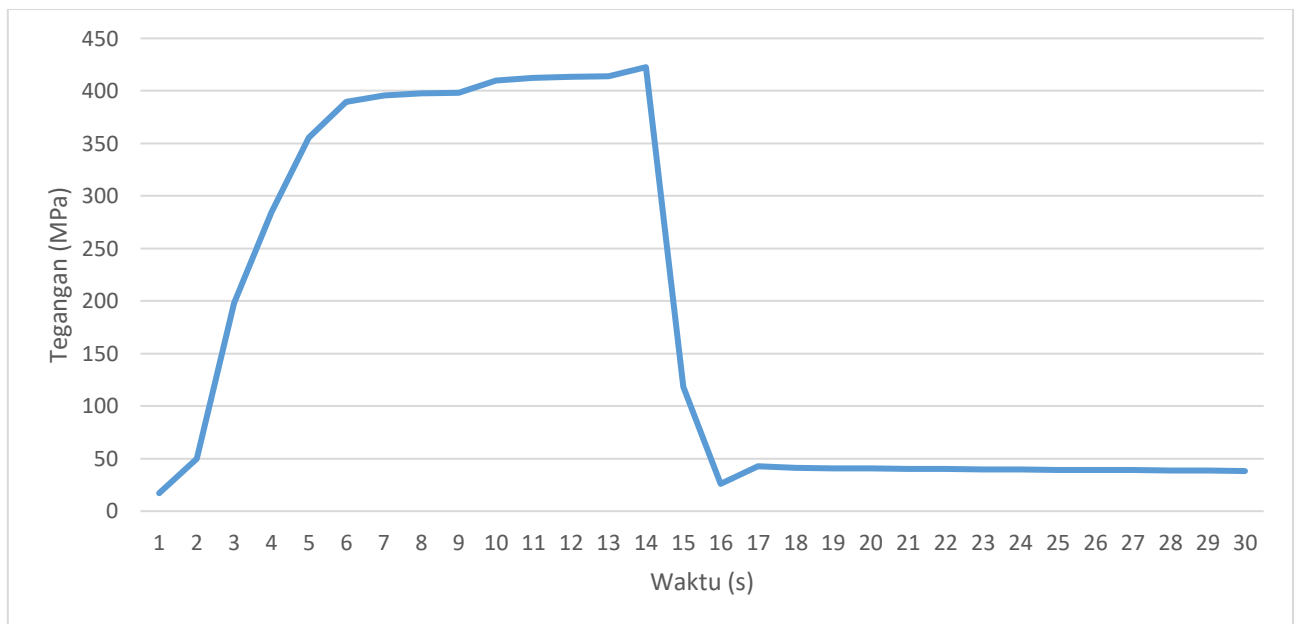
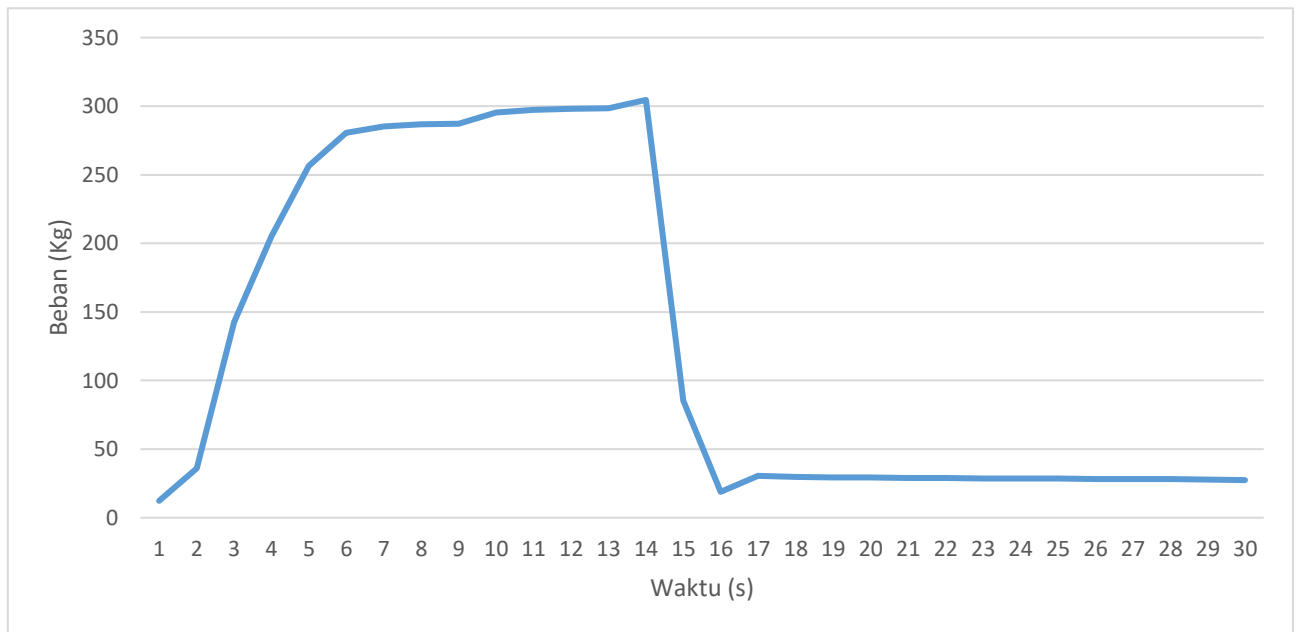
PENGUJIAN TREATMENT 5**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.24.46,67	12,34	0	121,0554	7,07	17,12240453
15.24.46,86	15,82	0,15	155,1942	7,07	21,95108911
15.24.47,05	14,67	0,3	143,9127	7,07	20,35540311
15.24.47,24	20,13	0,45	197,4753	7,07	27,93144272
15.24.47,43	25,64	0,6	251,5284	7,07	35,57685997
15.24.47,62	142,67	0,75	1399,5927	7,07	197,9621924
15.24.47,81	205,13	0,9	2012,3253	7,07	284,6287553
15.24.48,00	226,4	1,05	2220,984	7,07	314,1420085
15.24.48,20	250,71	1,2	2459,4651	7,07	347,8734229
15.24.48,39	265,11	1,35	2600,7291	7,07	367,8541867
15.24.48,58	269,72	1,5	2645,9532	7,07	374,2508062
15.24.48,77	267,03	1,65	2619,5643	7,07	370,5182885
15.24.48,96	270,5	1,8	2653,605	7,07	375,3330976
15.24.49,15	267,33	1,95	2622,5073	7,07	370,9345545
15.24.49,34	274,01	2,1	2688,0381	7,07	380,2034088
15.24.49,53	281,5	2,25	2761,515	7,07	390,596181
15.24.49,72	305,56	2,4	2997,5436	7,07	423,9807072
15.24.49,91	185,45	2,55	1819,2645	7,07	257,3217115
15.24.50,10	18,89	2,7	185,3109	7,07	26,21087694
15.24.50,30	30,64	2,85	300,5784	7,07	42,51462518
15.24.50,49	29,74	3	291,7494	7,07	41,26582744
15.24.50,68	29,46	3,15	289,0026	7,07	40,87731259
15.24.50,87	29,22	3,3	286,6482	7,07	40,54429986
15.24.51,06	29,09	3,45	285,3729	7,07	40,36391796
15.24.51,25	28,88	3,6	283,3128	7,07	40,07253182
15.24.51,44	28,72	3,75	281,7432	7,07	39,85052334
15.24.51,63	28,63	3,9	280,8603	7,07	39,72564356
15.24.51,82	28,43	4,05	278,8983	7,07	39,44813296
15.24.52,02	28,3	4,2	277,623	7,07	39,26775106
15.24.52,21	27,5	4,35	269,775	7,07	38,15770863



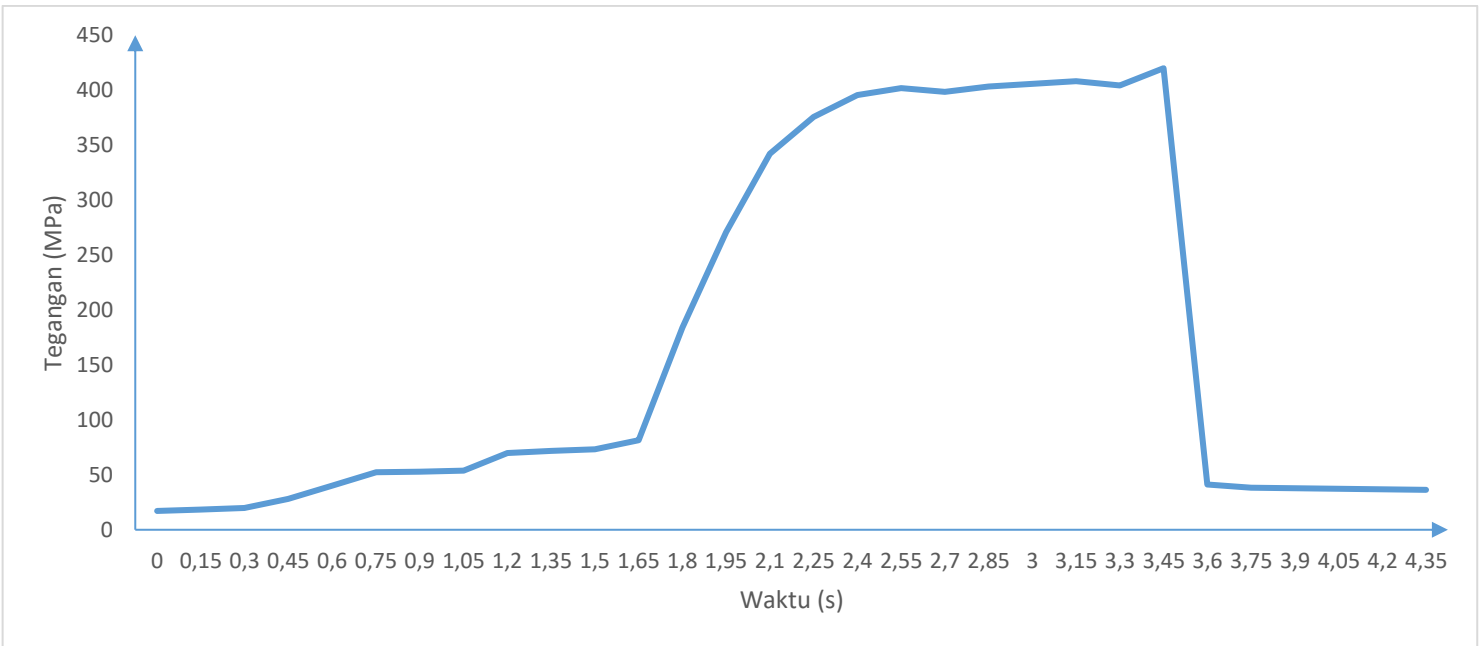
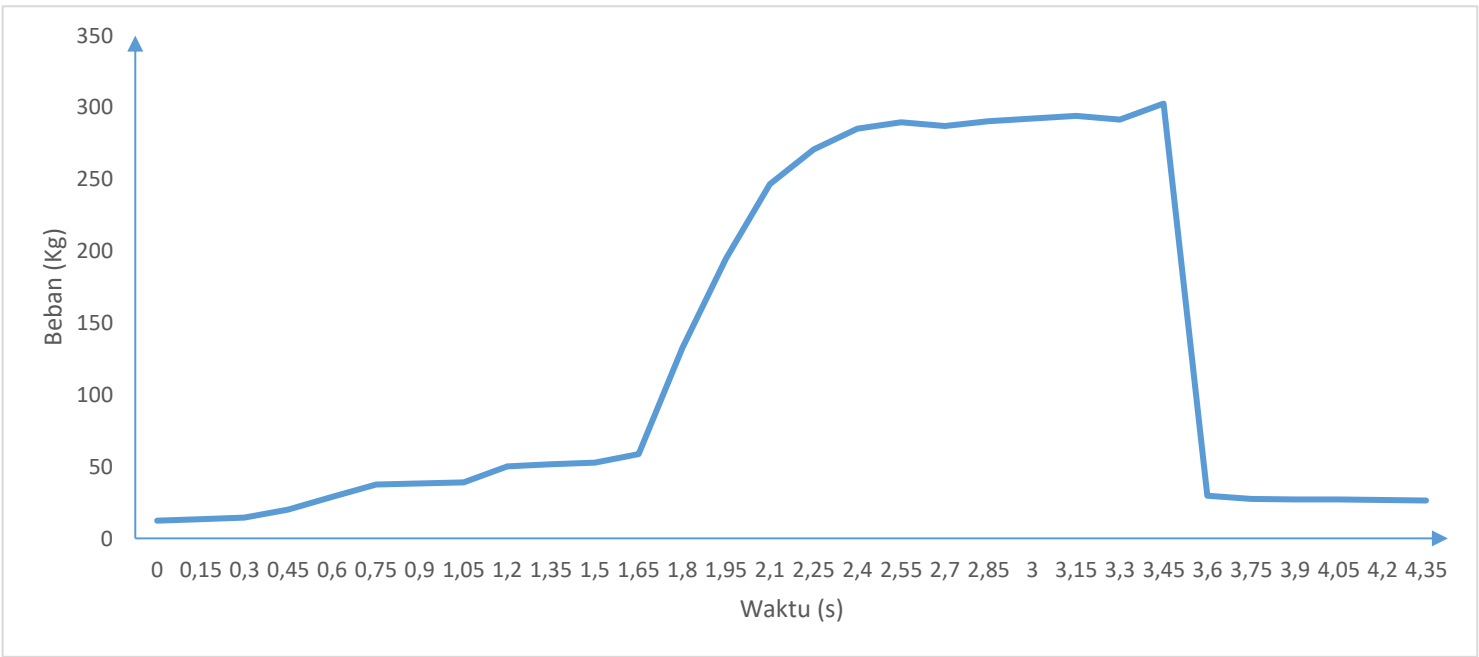
PENGUJIAN TREATMENT 6**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (N/mm2)
15.24.46,67	12,34	0	121,0554	7,07	17,12240453
15.24.46,86	35,82	0,15	351,3942	7,07	49,70214993
15.24.47,05	142,67	0,3	1399,5927	7,07	197,9621924
15.24.47,24	205,13	0,45	2012,3253	7,07	284,6287553
15.24.47,43	256,4	0,6	2515,284	7,07	355,7685997
15.24.47,62	280,71	0,75	2753,7651	7,07	389,5000141
15.24.47,81	295,11	0,9	2895,0291	7,07	409,4807779
15.24.48,00	299,72	1,05	2940,2532	7,07	415,8773975
15.24.48,20	297,03	1,2	2913,8643	7,07	412,1448798
15.24.48,39	300,5	1,35	2947,905	7,07	416,9596888
15.24.48,58	297,33	1,5	2916,8073	7,07	412,5611457
15.24.48,77	294,01	1,65	2884,2381	7,07	407,9544696
15.24.48,96	291,5	1,8	2859,615	7,07	404,4717115
15.24.49,15	304,56	1,95	2987,7336	7,07	422,5931542
15.24.49,34	185,45	2,1	1819,2645	7,07	257,3217115
15.24.49,53	18,89	2,25	185,3109	7,07	26,21087694
15.24.49,72	30,64	2,4	300,5784	7,07	42,51462518
15.24.49,91	29,74	2,55	291,7494	7,07	41,26582744
15.24.50,10	29,46	2,7	289,0026	7,07	40,87731259
15.24.50,30	29,22	2,85	286,6482	7,07	40,54429986
15.24.50,49	29,09	3	285,3729	7,07	40,36391796
15.24.50,68	28,88	3,15	283,3128	7,07	40,07253182
15.24.50,87	28,72	3,3	281,7432	7,07	39,85052334
15.24.51,06	28,63	3,45	280,8603	7,07	39,72564356
15.24.51,25	28,43	3,6	278,8983	7,07	39,44813296
15.24.51,44	28,3	3,75	277,623	7,07	39,26775106
15.24.51,63	28,18	3,9	276,4458	7,07	39,1012447
15.24.51,82	28,05	4,05	275,1705	7,07	38,9208628
15.24.52,02	27,97	4,2	274,3857	7,07	38,80985856
15.24.52,21	27,5	4,35	269,775	7,07	38,15770863



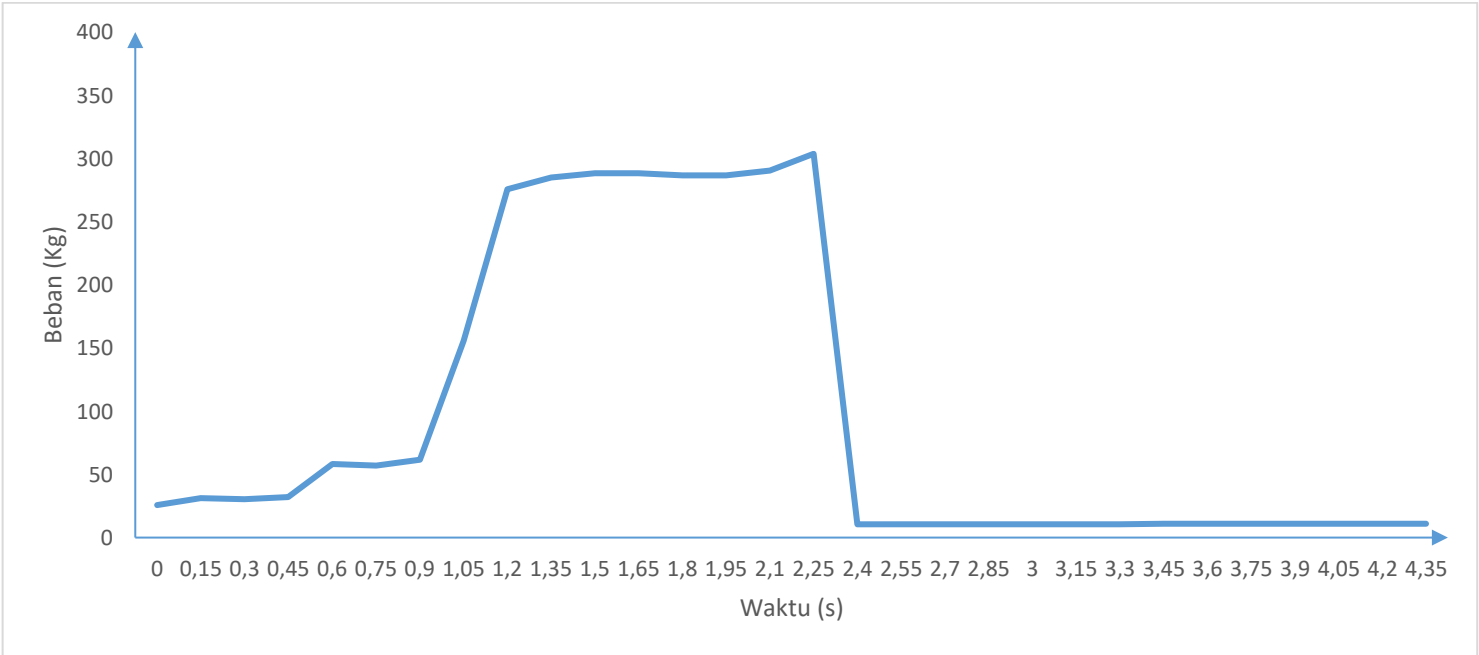
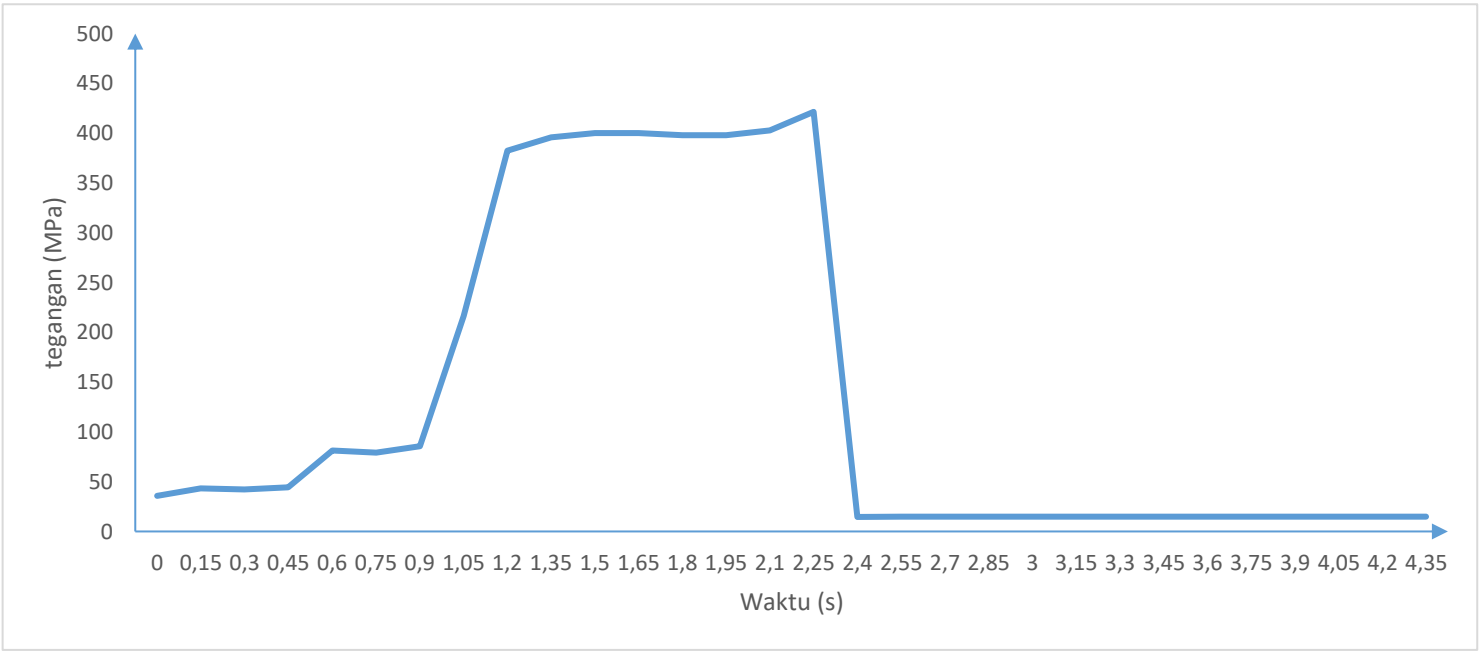
PENGUJIAN TREATMENT 7**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.24.46,67	12,34	0	121,0554	7,07	17,12240453
15.24.46,86	13,18	0,15	129,2958	7,07	18,28794908
15.24.47,05	14,35	0,3	140,7735	7,07	19,91138614
15.24.47,24	20,22	0,45	198,3582	7,07	28,05632249
15.24.47,43	28,91	0,6	283,6071	7,07	40,11415842
15.24.47,62	37,63	0,75	369,1503	7,07	52,21362093
15.24.47,81	38,15	0,9	374,2515	7,07	52,93514851
15.24.48,00	38,88	1,05	381,4128	7,07	53,94806223
15.24.48,20	50,31	1,2	493,5411	7,07	69,80779349
15.24.48,39	51,74	1,35	507,5694	7,07	71,79199434
15.24.48,58	52,83	1,5	518,2623	7,07	73,30442716
15.24.48,77	58,66	1,65	575,4546	7,07	81,39386139
15.24.48,96	132,67	1,8	1301,493	7,07	184,086662
15.24.49,15	195,13	1,95	1914,225	7,07	270,7532249
15.24.49,34	246,47	2,1	2417,871	7,07	341,990198
15.24.49,53	270,73	2,25	2655,861	7,07	375,6522348
15.24.49,72	285,11	2,4	2796,929	7,07	395,6052475
15.24.49,91	289,72	2,55	2842,153	7,07	402,001867
15.24.50,10	287,03	2,7	2815,764	7,07	398,2693494
15.24.50,30	290,54	2,85	2850,197	7,07	403,1396605
15.24.50,49	292,33	3	2867,757	7,07	405,6233805
15.24.50,68	294,01	3,15	2884,238	7,07	407,9544696
15.24.50,87	291,5	3,3	2859,615	7,07	404,4717115
15.24.51,06	302,67	3,45	2969,193	7,07	419,9706789
15.24.51,25	29,57	3,6	290,0817	7,07	41,02994342
15.24.51,44	27,61	3,75	270,8541	7,07	38,31033946
15.24.51,63	27,26	3,9	267,4206	7,07	37,8246959
15.24.51,82	26,94	4,05	264,2814	7,07	37,38067893
15.24.52,02	26,62	4,2	261,1422	7,07	36,93666195
15.24.52,21	26,3	4,35	258,003	7,07	36,49264498



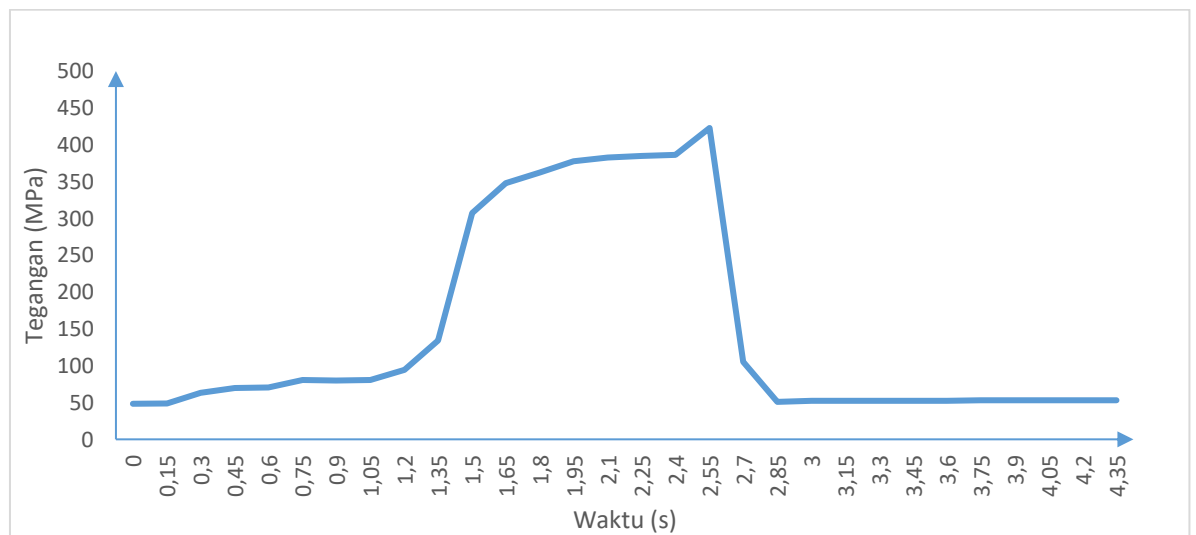
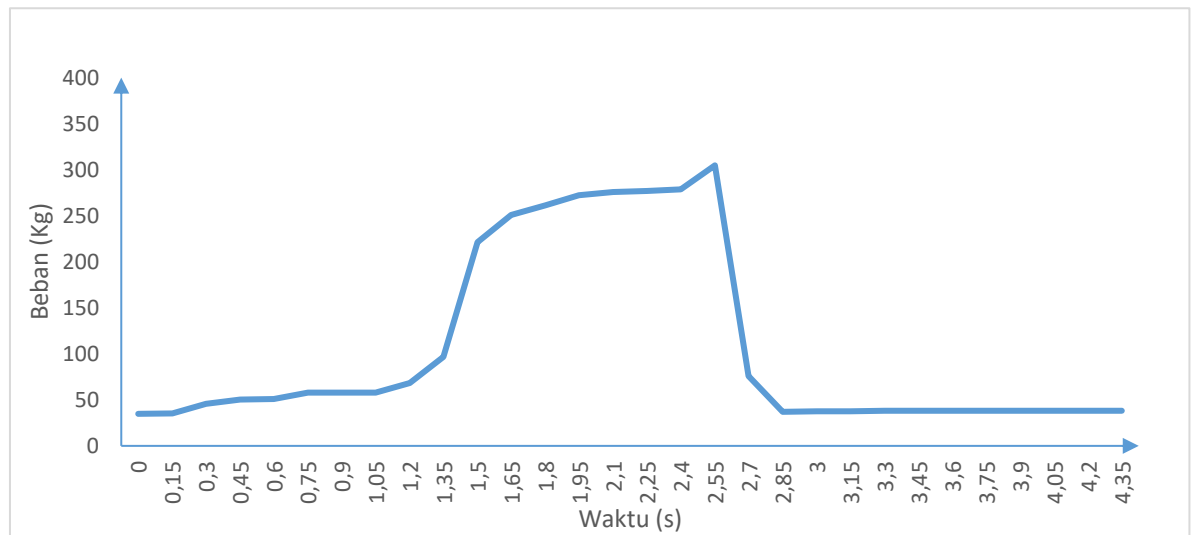
PENGUJIAN TREATMENT 8**Historical Data**

TIME	Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
15.24.46,67	25,8	0	253,098	7,07	35,79886846
15.24.46,86	31,25	0,15	306,5625	7,07	43,36103253
15.24.47,05	30,5	0,3	299,205	7,07	42,32036775
15.24.47,24	32,1	0,45	314,901	7,07	44,54045262
15.24.47,43	58,4	0,6	572,904	7,07	81,0330976
15.24.47,62	56,9	0,75	558,189	7,07	78,95176803
15.24.47,81	61,5	0,9	603,315	7,07	85,33451202
15.24.48,00	155,9	1,05	1529,379	7,07	216,3195191
15.24.48,20	275,65	1,2	2704,1265	7,07	382,4789958
15.24.48,39	285,1	1,35	2796,831	7,07	395,591372
15.24.48,58	288,2	1,5	2827,242	7,07	399,8927864
15.24.48,77	288,15	1,65	2826,7515	7,07	399,8234088
15.24.48,96	286,8	1,8	2813,508	7,07	397,9502122
15.24.49,15	286,79	1,95	2813,4099	7,07	397,9363366
15.24.49,34	290,45	2,1	2849,3145	7,07	403,0147808
15.24.49,53	303,7	2,25	2979,297	7,07	421,3998586
15.24.49,72	10,5	2,4	103,005	7,07	14,56930693
15.24.49,91	10,6	2,55	103,986	7,07	14,70806223
15.24.50,10	10,62	2,7	104,1822	7,07	14,7358133
15.24.50,30	10,65	2,85	104,4765	7,07	14,77743989
15.24.50,49	10,68	3	104,7708	7,07	14,81906648
15.24.50,68	10,7	3,15	104,967	7,07	14,84681754
15.24.50,87	10,71	3,3	105,0651	7,07	14,86069307
15.24.51,06	10,74	3,45	105,3594	7,07	14,90231966
15.24.51,25	10,77	3,6	105,6537	7,07	14,94394625
15.24.51,44	10,79	3,75	105,8499	7,07	14,97169731
15.24.51,63	10,81	3,9	106,0461	7,07	14,99944837
15.24.51,82	10,82	4,05	106,1442	7,07	15,0133239
15.24.52,02	10,85	4,2	106,4385	7,07	15,0549505
15.24.52,21	10,88	4,35	106,7328	7,07	15,09657709



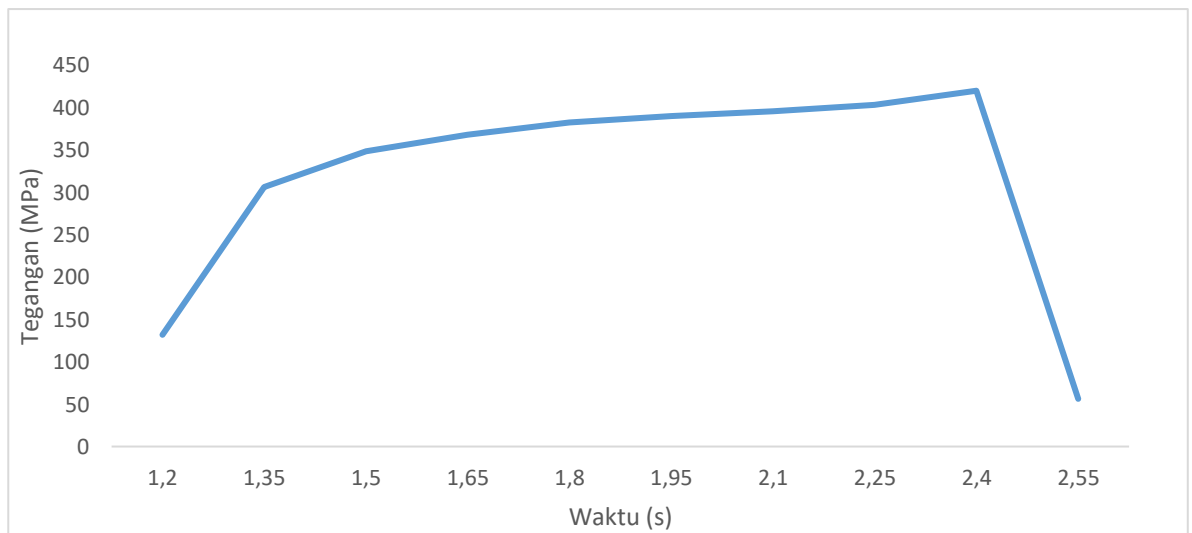
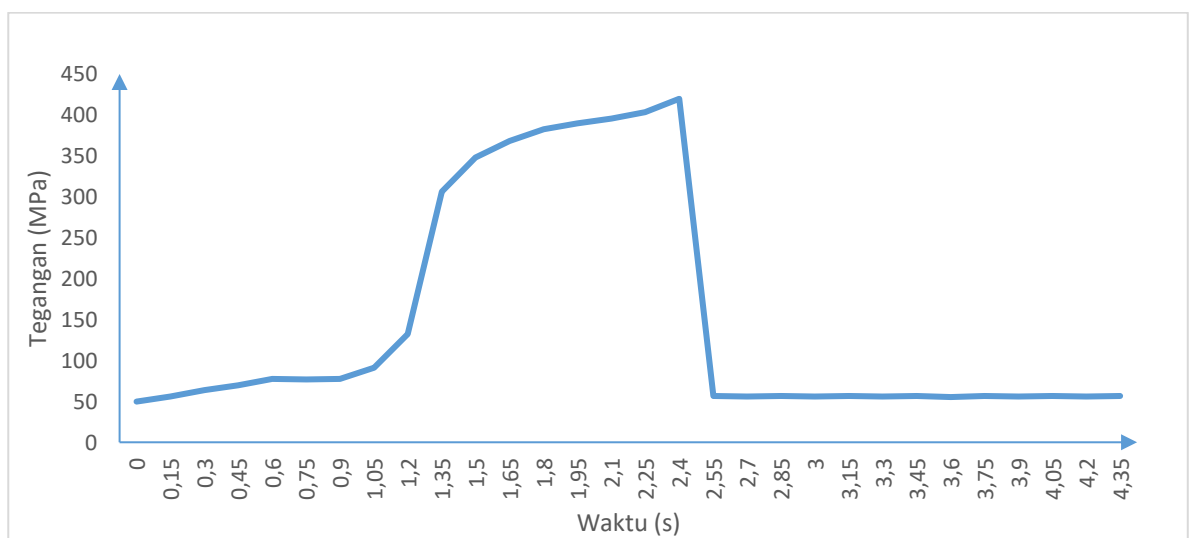
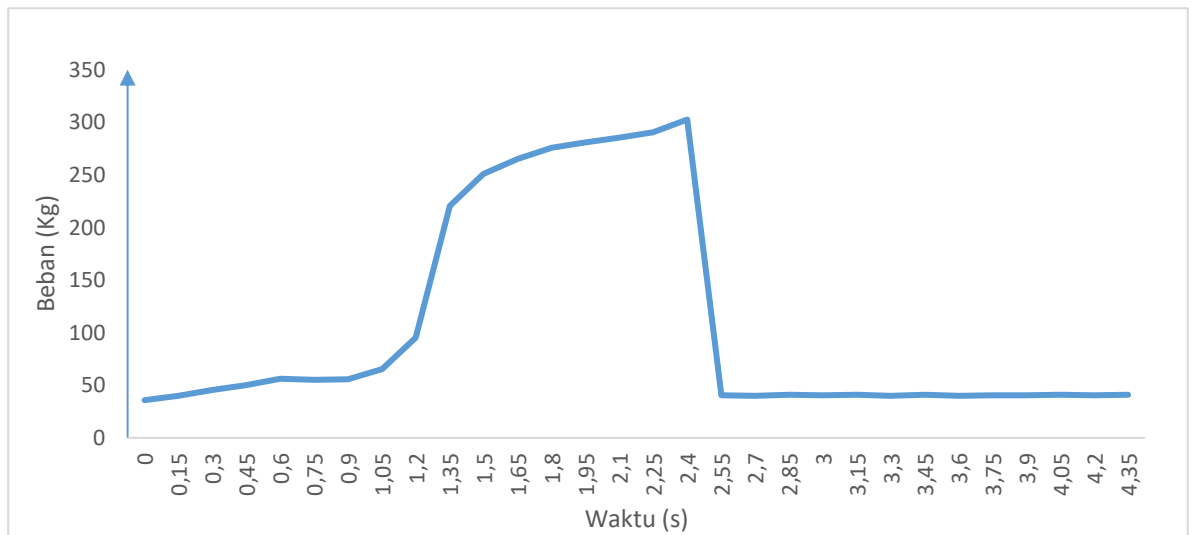
PENGUJIAN TREATMENT 9**Historical Data**

Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
34,8	0	341,388	7,07	48,28684583
35,15	0,15	344,8215	7,07	48,77248939
45,55	0,3	446,8455	7,07	63,20304102
50,4	0,45	494,424	7,07	69,93267327
50,9	0,6	499,329	7,07	70,62644979
58,05	0,75	569,4705	7,07	80,54745403
57,7	0,9	566,037	7,07	80,06181047
57,95	1,05	568,4895	7,07	80,40869873
68,1	1,2	668,061	7,07	94,49236209
96,8	1,35	949,608	7,07	134,3151344
221,2	1,5	2169,972	7,07	306,9267327
250,5	1,65	2457,405	7,07	347,5820368
261,2	1,8	2562,372	7,07	362,4288543
272	1,95	2668,32	7,07	377,4144272
275,8	2,1	2705,598	7,07	382,6871287
277,1	2,25	2718,351	7,07	384,4909477
278,5	2,4	2732,085	7,07	386,4335219
304,66	2,55	2988,7146	7,07	422,7319095
75,8	2,7	743,598	7,07	105,1765205
36,9	2,85	361,989	7,07	51,20070721
37,45	3	367,3845	7,07	51,96386139
37,7	3,15	369,837	7,07	52,31074965
37,85	3,3	371,3085	7,07	52,5188826
37,9	3,45	371,799	7,07	52,58826025
37,95	3,6	372,2895	7,07	52,65763791
38	3,75	372,78	7,07	52,72701556
38,1	3,9	373,761	7,07	52,86577086
38,2	4,05	374,742	7,07	53,00452617
38,3	4,2	375,723	7,07	53,14328147
38,4	4,35	376,704	7,07	53,28203678



PENGUJIAN TREATMENT 10**Historical Data**

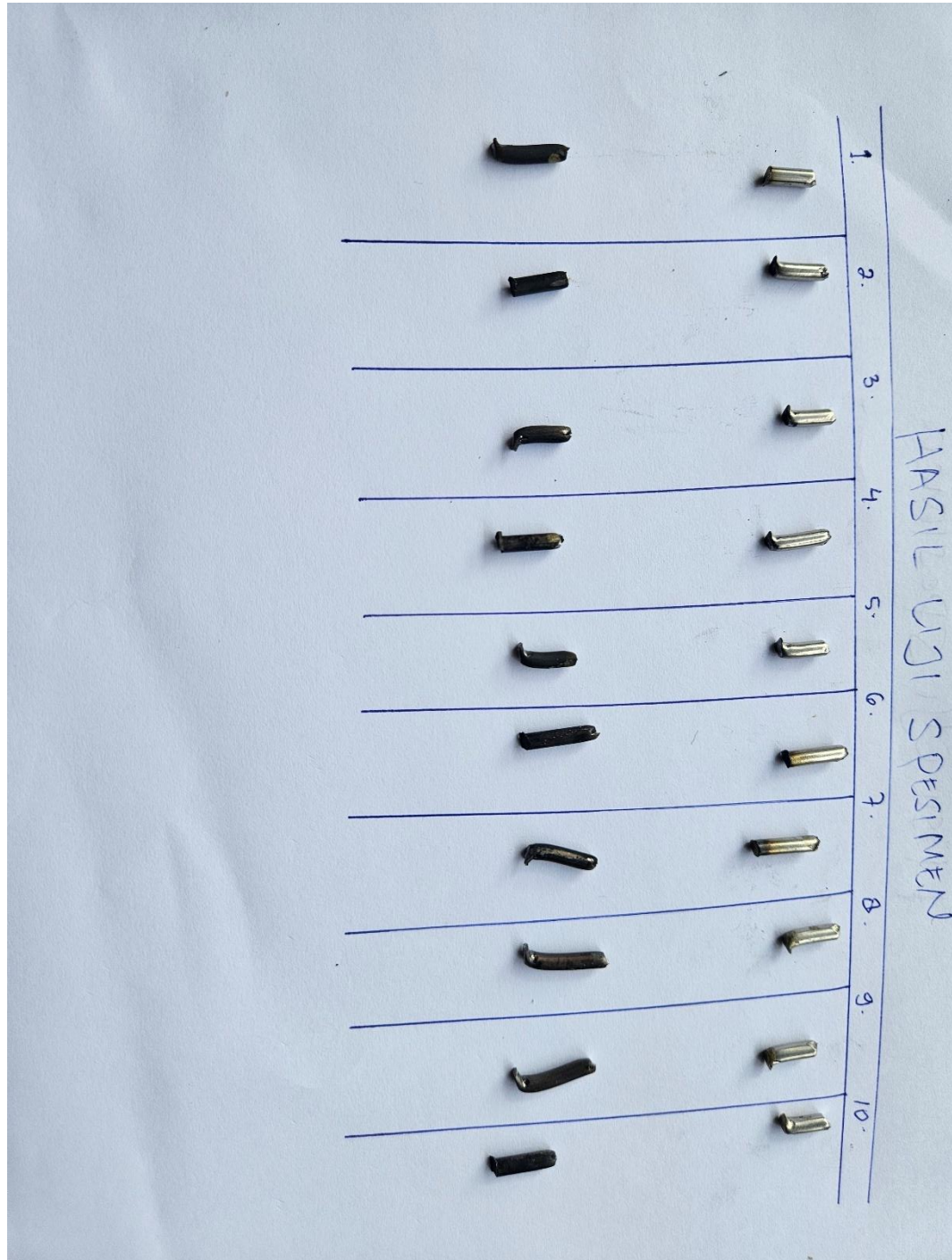
Beban (Kg)	Waktu (s)	Gaya (N)	Luasan(mm ²)	Tegangan (MPa)
35,82	0	351,3942	7,07	49,70214993
40,19	0,15	394,2639	7,07	55,76575672
45,71	0,3	448,4151	7,07	63,4250495
50,04	0,45	490,8924	7,07	69,43315417
55,93	0,6	548,6733	7,07	77,60584158
55,25	0,75	542,0025	7,07	76,66230552
55,68	0,9	546,2208	7,07	77,25895332
65,47	1,05	642,2607	7,07	90,8430976
95,09	1,2	932,8329	7,07	131,9424187
220,53	1,35	2163,399	7,07	305,9970721
250,91	1,5	2461,427	7,07	348,1509335
265,22	1,65	2601,808	7,07	368,0068175
275,48	1,8	2702,459	7,07	382,2431117
280,76	1,95	2754,256	7,07	389,5693918
285,15	2,1	2797,322	7,07	395,6607496
290,64	2,25	2851,178	7,07	403,2784158
302,5	2,4	2967,525	7,07	419,7347949
40,55	2,55	397,7955	7,07	56,26527581
40,11	2,7	393,4791	7,07	55,65475248
40,89	2,85	401,1309	7,07	56,73704385
40,23	3	394,6563	7,07	55,82125884
40,77	3,15	399,9537	7,07	56,57053748
40,1	3,3	393,381	7,07	55,64087694
40,98	3,45	402,0138	7,07	56,86192362
40,05	3,6	392,8905	7,07	55,57149929
40,66	3,75	398,8746	7,07	56,41790665
40,32	3,9	395,5392	7,07	55,94613861
40,81	4,05	400,3461	7,07	56,6260396
40,44	4,2	396,7164	7,07	56,11264498
40,92	4,35	401,4252	7,07	56,77867044



Lampiran 38. Suhu Pemanasan



Lampiran 39. Hasil Potongan Material Pengujian Geser



Lampiran 40. Proses Fabrikasi

