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LAMPIRAN I
TEBEL HASIL PENELITIAN

Tabel A-1.

Kecepatan Ekstrusi		Nilai rata-rata kekerasan (HRF)		
		HRF (N)	HRF (HT 6061-O)	HRF (HT 6061-T6)
Spesimen Awal		35,96	9,33	79,06
2 mm/mnt	NL	52,93	17,93	82,46
	L	42,76	20,86	87,03
5 mm/mnt	NL	53,95	13,73	84,26
	L	46,43	17,23	81,9
10 mm/mnt	NL	55,6	9,43	84,36
	L	48,63	14,13	85,96

Tabel A-2.

Kecepatan Ekstrusi		Nilai rata-rata ekstrusi F(kN)		
		Normal	Perlakuan panas 6061-O	Perlakuan panas 6061-T6
2 mm/mnt	NL	64,85	68,85	28,05
	L	61,75	65,15	23,2
5 mm/mnt	NL	49,05	83,5	23,15
	L	38,85	40,45	17,4
10 mm/mnt	NL	17,95	90,45	9,15
	L	42,05	32,75	18,05

Kecepatan Ekstrusi		Nilai rata-rata kekasaran permukaan Ra (μm)				
		Arah	μm (Normal)	μm (HT 6061-O)	μm (HT 6061-T6)	
2 mm/mnt	NL	Radial	1,74	3,28	1,66	
	L		1,67	3,36	1,95	
10 mm/mnt	NL		2,2	1,99	2,19	
	L		2,08	1,73	2	
2 mm/mnt	NL		Aksial	2,69	3,85	2,52
	L			2,89	4,83	2,65
10 mm/mnt	NL	3,03		3,75	4,37	
	L	4,81		2,95	3,03	

Tabel A-3

LAMPIRAN II
FOTO KEGIATAN PENELITIAN

Gambar A-1.
Proses Heat Treatment



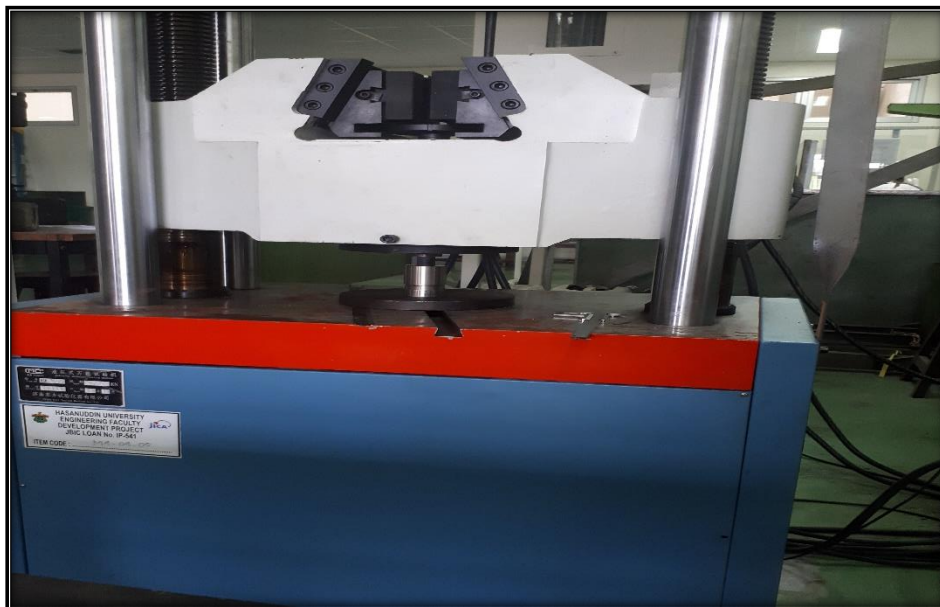
Gambar A-2.
Pengambilan Data Kekerasan



Gambar A-3.
Pengambilan Data Struktur Mikro



Gambar A-4.
Proses Ekstrusi



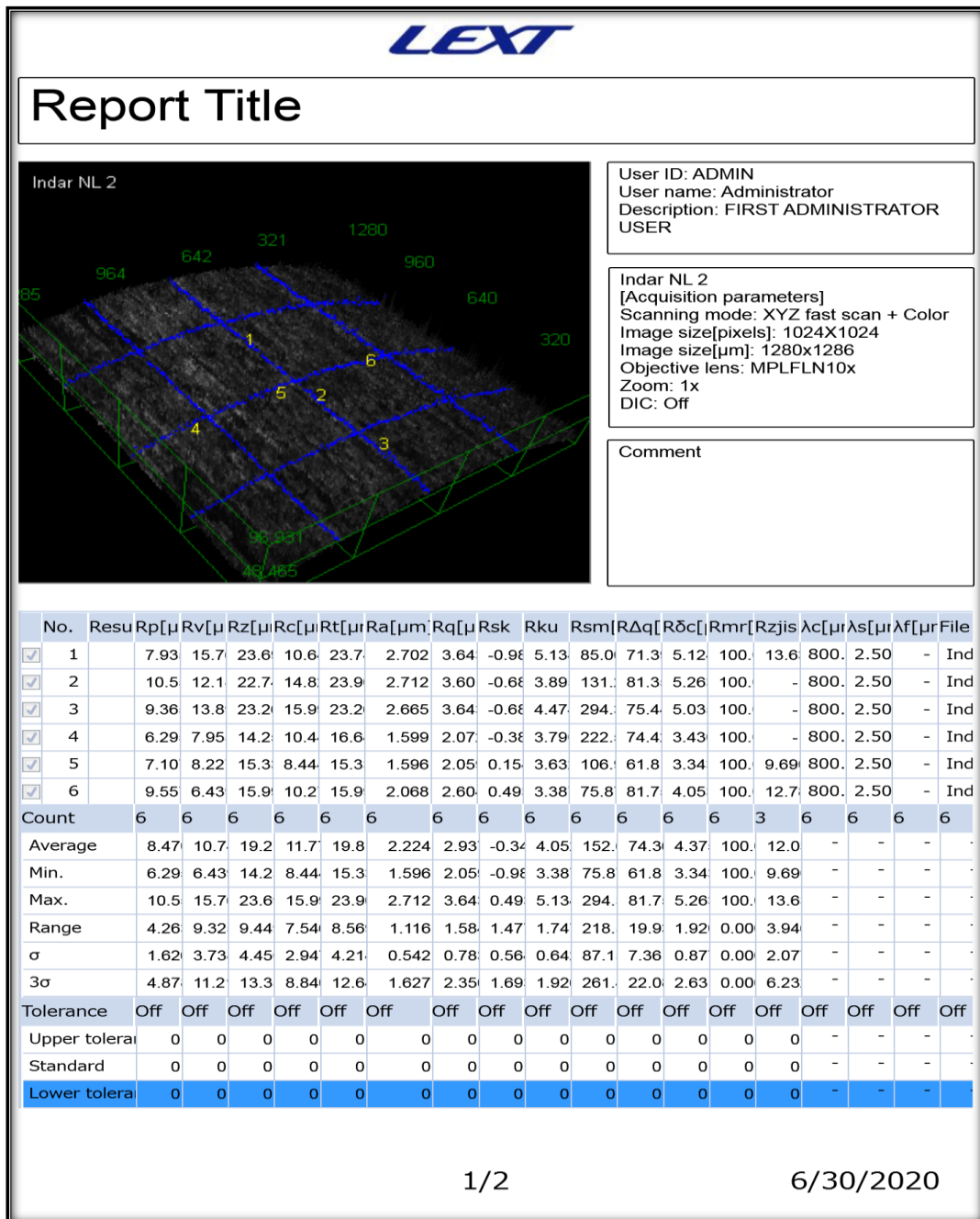
Gambar A-5.
Proses Pemotongan Spesimen



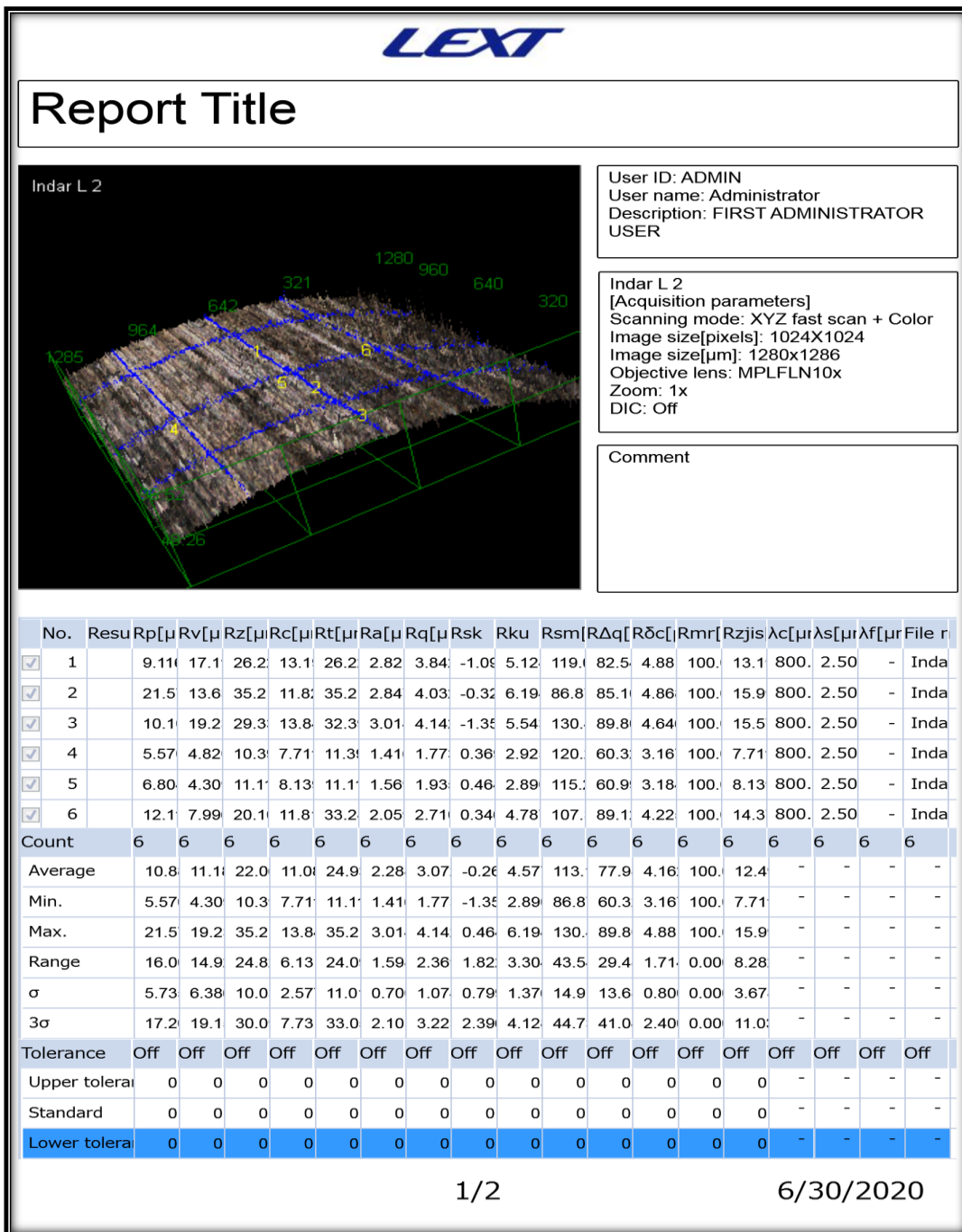
Gambar A-6.
Proses *Quenching*



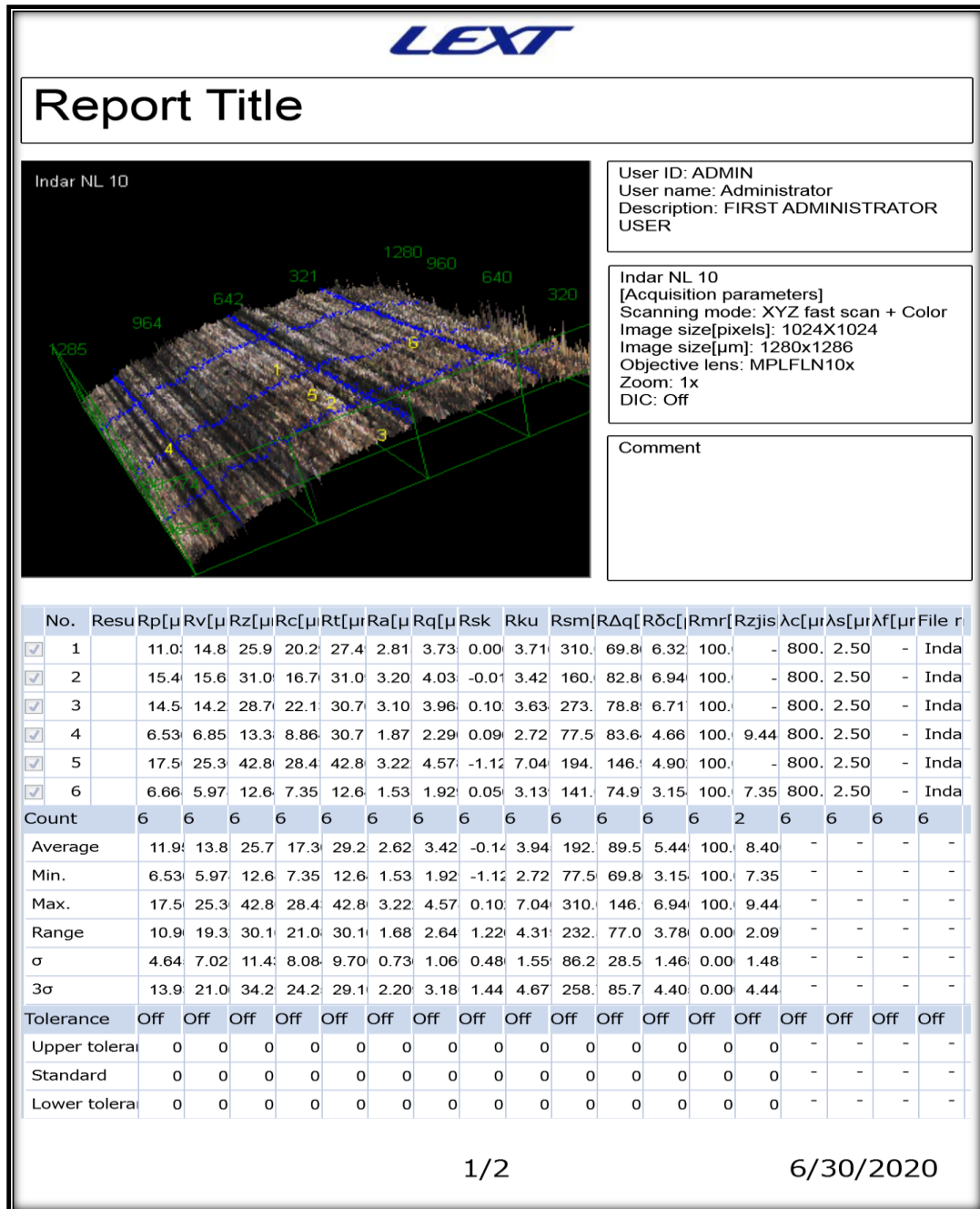
Gambar A-7.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen *Non Lubrikasi* Kecepatan 2 mm/mnt



Gambar A-8.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen *Lubrikasi* Kecepatan 2 mm/mnt



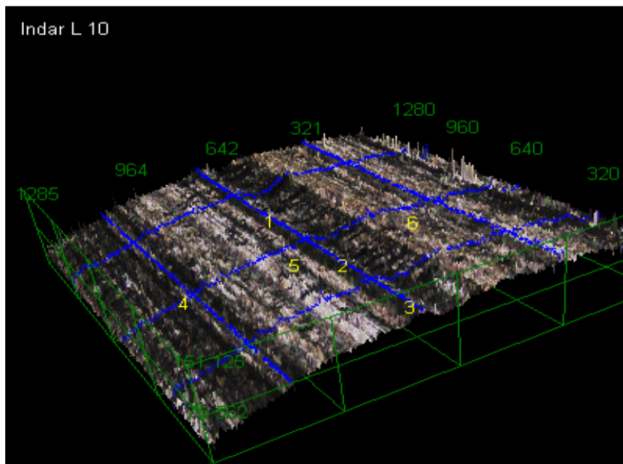
Gambar A-9.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen *Non Lubrikasi* Kecepatan 10 mm/mnt



Gambar A-10.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen *Lubrikasi* Kecepatan 10 mm/mnt



Report Title



User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

Indar L 10
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μm]	Rq[μ]	Rsk	Rku	Rsm	RAq	RÖc	Rmr	Rzjis	λc[μ]	λs[μ]	λf[μ]	File
<input checked="" type="checkbox"/>	1	11.8	18.3	30.1	18.5	39.1	4.935	6.16	-0.74	2.97	170.	80.0	9.75	100.	-	800.	2.50	-	Ind
<input checked="" type="checkbox"/>	2	15.1	17.9	33.0	20.9	44.0	4.599	5.53	-0.44	2.75	134.	79.1	10.0	100.	20.9	800.	2.50	-	Ind
<input checked="" type="checkbox"/>	3	20.0	19.3	39.3	24.0	52.5	4.925	6.17	-0.56	3.29	180.	98.5	10.1	100.	-	800.	2.50	-	Ind
<input checked="" type="checkbox"/>	4	9.65	14.8	24.4	13.9	24.4	2.461	3.22	-0.34	4.39	118.	102.	4.65	100.	13.9	800.	2.50	-	Ind
<input checked="" type="checkbox"/>	5	6.67	7.90	14.5	7.97	20.4	1.462	1.88	0.26	3.68	116.	67.0	3.37	100.	7.97	800.	2.50	-	Ind
<input checked="" type="checkbox"/>	6	11.3	15.4	26.8	14.9	26.8	2.338	3.12	-0.16	4.69	90.0	101.	4.03	100.	19.3	800.	2.50	-	Ind
Count	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6
Average		12.4	15.6	28.0	16.7	34.5	3.453	4.35	-0.33	3.63	134.	88.1	7.00	100.	15.5	-	-	-	-
Min.		6.67	7.90	14.5	7.97	20.4	1.462	1.88	-0.74	2.75	90.0	67.0	3.37	100.	7.97	-	-	-	-
Max.		20.0	19.3	39.3	24.0	52.5	4.935	6.17	0.26	4.69	180.	102.	10.1	100.	20.9	-	-	-	-
Range		13.3	11.4	24.7	16.1	32.1	3.473	4.28	1.01	1.94	90.4	35.3	6.81	0.00	13.0	-	-	-	-
σ		4.63	4.15	8.39	5.71	12.6	1.541	1.83	0.35	0.77	34.5	14.7	3.29	0.00	5.89	-	-	-	-
3σ		13.9	12.4	25.1	17.1	37.8	4.622	5.50	1.06	2.33	103.	44.3	9.88	0.00	17.6	-	-	-	-
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-

Gambar A-11.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-O Non Lubrikasi Kecepatan 2 mm/mnt



Report Title

User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

Indar NL HT O
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μ]	Rq[μ]	Rsk	Rku	Rsm	RDq	Rdc	Rmr	Rzjis	λc[μ]	λs[μ]	λf[μ]	File
<input checked="" type="checkbox"/>	1	15.2	17.4	32.6	23.2	32.6	3.958	5.12	0.14	3.38	212.	83.7	8.10	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	2	16.4	17.5	34.0	18.7	34.0	3.739	4.85	-0.31	3.65	144.	87.2	7.91	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	3	14.2	15.8	30.1	18.5	33.1	3.874	4.96	-0.26	3.32	119.	87.7	8.33	100.	20.4	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	4	11.9	11.2	23.2	12.9	27.5	2.949	3.72	0.29	3.35	99.8	89.2	6.06	100.	14.9	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	5	11.9	10.9	22.9	16.3	22.9	3.351	4.06	-0.01	2.61	84.7	96.9	6.92	100.	19.3	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	6	11.9	12.6	24.6	19.3	25.7	3.561	4.42	-0.13	2.72	138.	101.	7.06	100.	19.3	800.	2.50	-	Inda
Count		6	6	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6
Average		13.6	14.2	27.9	18.2	29.3	3.572	4.52	-0.04	3.17	133.	91.0	7.39	100.	18.5	-	-	-	-
Min.		11.9	10.9	22.9	12.9	22.9	2.949	3.72	-0.31	2.61	84.7	83.7	6.06	100.	14.9	-	-	-	-
Max.		16.4	17.5	34.0	23.2	34.0	3.958	5.12	0.29	3.65	212.	101.	8.33	100.	20.4	-	-	-	-
Range		4.52	6.60	11.0	10.3	11.0	1.009	1.39	0.61	1.04	127.	17.4	2.27	0.00	5.49	-	-	-	-
σ		1.96	3.02	4.94	3.42	4.57	0.376	0.55	0.23	0.41	44.7	6.62	0.86	0.00	2.44	-	-	-	-
3σ		5.89	9.07	14.8	10.2	13.7	1.127	1.65	0.71	1.23	134.	19.8	2.60	0.00	7.33	-	-	-	-
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-

Gambar A-12.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-O *Lubrikasi* Kecepatan 2 mm/mnt



Report Title

User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

Indar L HT O 2
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

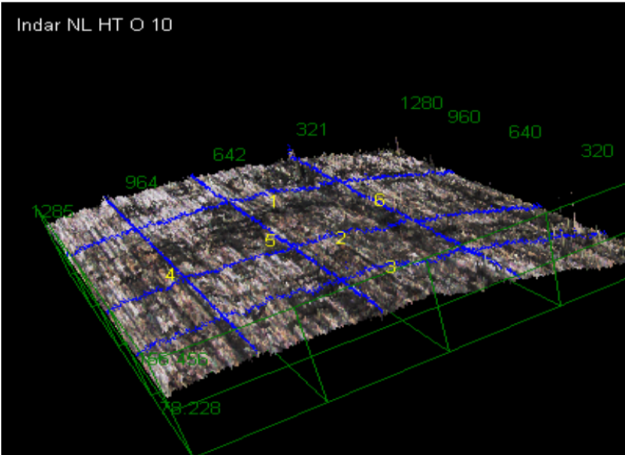
Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μ]	Rq[μ]	Rsk	Rku	Rsm	RDq	Rdc	Rmr	Rzjis	λc[μ]	λs[μ]	λf[μ]	File r
<input checked="" type="checkbox"/>	1	40.9	18.6	59.6	26.7	59.6	4.96	6.84	0.89	8.28	107.	110.	8.30	100.	26.7	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	2	26.8	20.6	47.4	21.3	47.4	5.00	6.38	-0.14	4.13	128.	126.	9.58	100.	21.3	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	3	14.5	22.2	36.8	21.6	36.8	4.54	6.02	-1.21	4.31	178.	98.6	8.78	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	4	24.9	12.1	37.0	17.3	38.6	3.59	4.55	0.63	4.44	89.6	107.	8.54	100.	21.0	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	5	15.5	21.3	36.8	18.1	46.9	3.55	4.56	-0.34	4.25	124.	115.	7.93	100.	18.1	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	6	29.9	8.69	38.6	17.6	42.7	2.96	4.11	1.49	10.8	87.0	129.	6.48	100.	21.9	800.	2.50	-	Inda
Count		6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
Average		25.4	17.2	42.7	20.5	45.3	4.10	5.41	0.21	6.03	119.	114.	8.27	100.	21.8	-	-	-	-
Min.		14.5	8.69	36.8	17.3	36.8	2.96	4.11	-1.21	4.13	87.0	98.6	6.48	100.	18.1	-	-	-	-
Max.		40.9	22.2	59.6	26.7	59.6	5.00	6.84	1.49	10.8	178.	129.	9.58	100.	26.7	-	-	-	-
Range		26.4	13.5	22.8	9.38	22.8	2.03	2.72	2.70	6.66	91.4	31.0	3.09	0.00	8.61	-	-	-	-
σ		9.81	5.55	9.23	3.60	8.20	0.84	1.14	0.97	2.83	33.6	11.7	1.03	0.00	3.11	-	-	-	-
3σ		29.4	16.6	27.7	10.8	24.6	2.54	3.42	2.92	8.49	101.	35.2	3.10	0.00	9.33	-	-	-	-
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Gambar A-13.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-O *Non Lubrikasi* Kecepatan 10 mm/mnt



Report Title



User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

Indar NL HT O 10
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

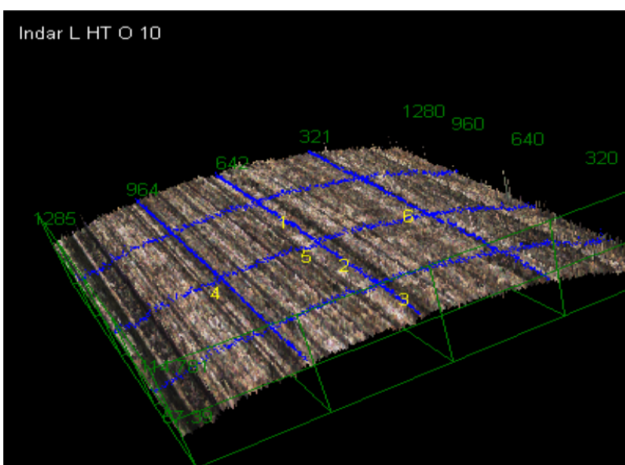
Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μm]	Rq[μ]	Rsk	Rku	Rsm	RDq	Rdc	Rmr	Rzjis	λc[μ]	λs[μ]	λf[μ]	File
<input checked="" type="checkbox"/>	1	14.2	20.3	34.5	16.0	34.5	3.614	4.83	-1.02	4.59	165.	79.2	5.98	100.	-	800.	2.50	-	Ino
<input checked="" type="checkbox"/>	2	12.1	17.2	29.3	18.3	32.8	3.730	4.95	-1.02	4.15	151.	80.6	6.22	100.	-	800.	2.50	-	Ino
<input checked="" type="checkbox"/>	3	15.0	18.2	33.2	25.4	33.2	3.912	5.30	-0.95	4.10	205.	90.6	6.98	100.	-	800.	2.50	-	Ino
<input checked="" type="checkbox"/>	4	8.58	6.85	15.4	9.18	15.4	1.648	2.16	0.36	3.64	111.2	81.2	3.57	100.	10.4	800.	2.50	-	Ino
<input checked="" type="checkbox"/>	5	17.3	8.60	25.9	10.5	25.9	2.318	2.95	0.22	4.45	92.0	101.	5.20	100.	12.2	800.	2.50	-	Ino
<input checked="" type="checkbox"/>	6	25.0	7.31	32.4	9.85	42.6	2.032	2.66	1.41	15.7	149.	95.6	4.72	100.	9.85	800.	2.50	-	Ino
Count	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6
Average		15.4	13.0	28.4	14.8	30.8	2.876	3.81	-0.17	6.11	145.	88.0	5.45	100.	10.8	-	-	-	-
Min.		8.58	6.85	15.4	9.18	15.4	1.648	2.16	-1.02	3.64	92.0	79.2	3.57	100.	9.85	-	-	-	-
Max.		25.0	20.3	34.5	25.4	42.6	3.912	5.30	1.41	15.7	205.	101.	6.98	100.	12.2	-	-	-	-
Range		16.5	13.4	19.1	16.2	27.2	2.264	3.13	2.43	12.0	112.5	21.8	3.41	0.00	2.38	-	-	-	-
σ		5.59	6.13	7.11	6.33	9.23	0.988	1.36	1.00	4.72	40.0	9.08	1.21	0.00	1.23	-	-	-	-
3σ		16.7	18.3	21.3	19.0	27.6	2.963	4.09	3.02	14.1	120.	27.2	3.63	0.00	3.71	-	-	-	-
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-

Gambar A-14.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-O *Lubrikasi* Kecepatan 10 mm/mnt



Report Title



User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

Indar L HT O 10
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

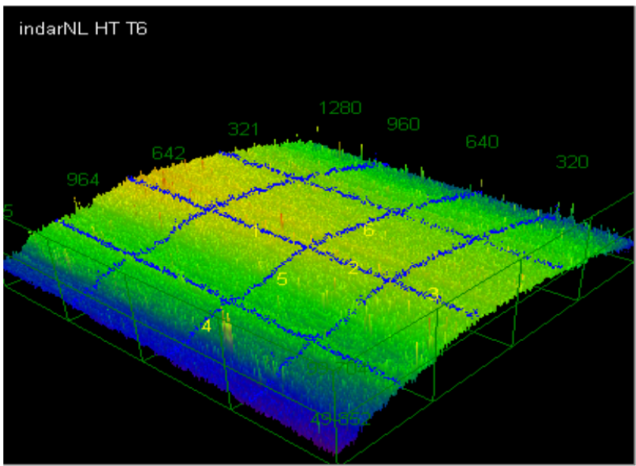
Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μm]	Rq[μ]	Rsk	Rku	Rsm	RΔq[μ]	Rδc[μ]	Rmr[μ]	Rzjis	λc[μ]	λs[μ]	λf[μ]	File
<input checked="" type="checkbox"/>	1	7.91	17.5	25.4	19.5	26.6	2.953	3.95	-1.13	4.50	295.	76.9	5.26	100.	-	800.	2.50	-	Inc
<input checked="" type="checkbox"/>	2	6.90	16.4	23.3	16.7	28.7	2.802	3.70	-1.14	4.83	305.	67.7	5.23	100.	-	800.	2.50	-	Inc
<input checked="" type="checkbox"/>	3	9.83	17.0	26.8	12.6	26.9	3.104	4.20	-1.13	4.85	172.	80.7	5.48	100.	-	800.	2.50	-	Inc
<input checked="" type="checkbox"/>	4	5.54	5.81	11.3	8.04	12.8	1.504	1.87	-0.13	2.87	129.	63.3	3.26	100.	8.75	800.	2.50	-	Inc
<input checked="" type="checkbox"/>	5	6.05	7.32	13.3	8.43	13.3	1.738	2.21	-0.25	3.26	135.	67.3	3.34	100.	8.43	800.	2.50	-	Inc
<input checked="" type="checkbox"/>	6	8.05	9.99	18.0	12.8	18.0	1.988	2.57	-0.26	3.60	228.	75.4	3.99	100.	-	800.	2.50	-	Inc
Count	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	6	6	6	6
Average		7.38	12.3	19.7	13.0	21.0	2.348	3.08	-0.67	3.99	210.	71.9	4.43	100.	8.59	-	-	-	
Min.		5.54	5.81	11.3	8.04	12.8	1.504	1.87	-1.14	2.87	129.	63.3	3.26	100.	8.43	-	-	-	
Max.		9.83	17.5	26.8	19.5	28.7	3.104	4.20	-0.13	4.85	305.	80.7	5.48	100.	8.75	-	-	-	
Range		4.29	11.7	15.5	11.5	15.8	1.600	2.32	1.00	1.98	175.	17.3	2.22	0.00	0.31	-	-	-	
σ		1.55	5.27	6.48	4.53	7.20	0.687	0.98	0.50	0.85	77.5	6.72	1.01	0.00	0.22	-	-	-	
3σ		4.67	15.8	19.4	13.6	21.6	2.060	2.96	1.51	2.56	232.	20.1	3.05	0.00	0.66	-	-	-	
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-

Gambar A-15.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-T6 *Non Lubrikasi* Kecepatan 2 mm/mnt



Report Title



User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

indarNL HT T6
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

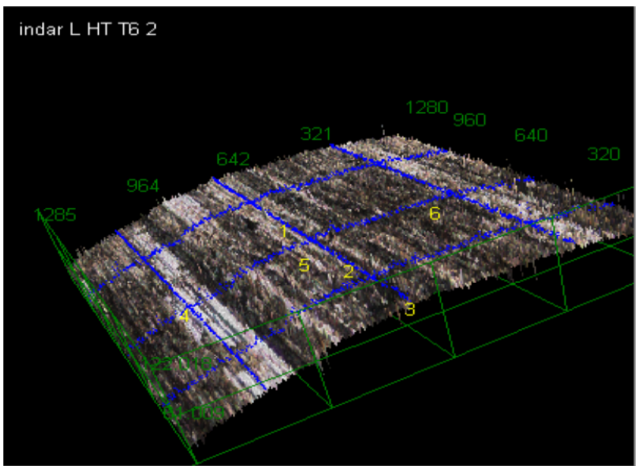
Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μ]	Rq[μ]	Rsk	Rku	Rsm	RΔq	Rδc	Rmr	Rzjis	λc[μ]	λs[μ]	λf[μ]	File
<input checked="" type="checkbox"/>	1	13.1	14.5	27.6	10.3	30.0	2.531	3.40	-0.40	4.54	105.	72.4	5.43	100.	11.3	800.	2.50	-	indarNL HT T6
<input checked="" type="checkbox"/>	2	11.0	13.0	24.0	13.2	27.5	2.541	3.31	-0.09	3.73	151.	74.1	6.08	100.	-	800.	2.50	-	indarNL HT T6
<input checked="" type="checkbox"/>	3	16.8	12.6	29.5	13.2	33.3	2.510	3.43	-0.38	5.46	202.	84.0	5.76	100.	-	800.	2.50	-	indarNL HT T6
<input checked="" type="checkbox"/>	4	6.20	5.53	11.7	8.72	15.2	1.741	2.16	0.27	2.78	116.	79.4	3.38	100.	9.18	800.	2.50	-	indarNL HT T6
<input checked="" type="checkbox"/>	5	7.25	6.15	13.4	7.94	14.6	1.572	1.99	0.02	3.16	111.	72.3	3.52	100.	8.86	800.	2.50	-	indarNL HT T6
<input checked="" type="checkbox"/>	6	8.61	6.50	15.1	9.12	15.1	1.870	2.35	0.07	3.15	134.	85.2	3.98	100.	9.12	800.	2.50	-	indarNL HT T6
Count	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6
Average		10.5	9.74	20.2	10.4	22.6	2.128	2.77	-0.08	3.80	137.	77.9	4.69	100.	9.62	-	-	-	-
Min.		6.20	5.53	11.7	7.94	14.6	1.572	1.99	-0.40	2.78	105.	72.3	3.38	100.	8.86	-	-	-	-
Max.		16.8	14.5	29.5	13.2	33.3	2.541	3.43	0.27	5.46	202.	85.2	6.08	100.	11.3	-	-	-	-
Range		10.6	8.98	17.8	5.34	18.6	0.969	1.44	0.68	2.68	97.5	12.9	2.69	0.00	2.47	-	-	-	-
σ		4.01	4.08	7.77	2.31	8.58	0.448	0.67	0.27	1.01	36.3	5.82	1.20	0.00	1.15	-	-	-	-
3σ		12.0	12.2	23.3	6.93	25.7	1.345	2.02	0.80	3.05	109.	17.4	3.60	0.00	3.45	-	-	-	-
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-

Gambar A-16.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-T6 *Lubrikasi* Kecepatan 2 mm/mnt



Report Title




User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR USER

indar L HT T6 2
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

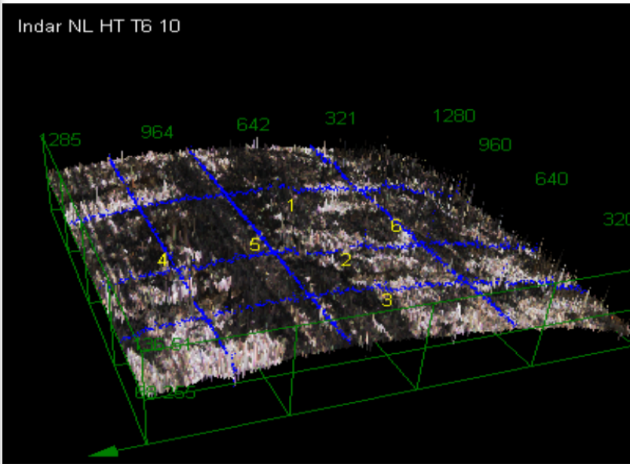
Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μ]	Rq[μ]	Rsk	Rku	Rsm	RDq[μ]	Rδc[μ]	Rmr[μ]	Rzjis	λc[μ]	λs[μ]	λf[μ]	File r	
<input checked="" type="checkbox"/>	1		10.2	9.41	19.7	11.9	48.9	2.49	3.19	0.33	3.27	156.	71.0	5.89	100.	-	800.	2.50	-	indar
<input checked="" type="checkbox"/>	2		8.42	10.8	19.2	9.94	36.9	2.75	3.45	-0.05	3.08	91.2	76.3	6.39	100.	9.94	800.	2.50	-	indar
<input checked="" type="checkbox"/>	3		28.3	15.3	43.6	19.8	48.6	2.71	3.88	1.05	11.2	165.	98.7	6.01	100.	-	800.	2.50	-	indar
<input checked="" type="checkbox"/>	4		11.9	14.5	26.4	10.1	26.4	1.85	2.58	0.04	8.14	123.	89.4	3.56	100.	10.9	800.	2.50	-	indar
<input checked="" type="checkbox"/>	5		21.2	13.1	34.4	12.0	34.4	2.26	3.17	0.64	9.86	97.1	109.	4.16	100.	14.9	800.	2.50	-	indar
<input checked="" type="checkbox"/>	6		10.4	15.0	25.4	11.0	25.4	1.75	2.31	-0.50	6.26	104.	87.1	3.67	100.	12.9	800.	2.50	-	indar
Count		6	6	6	6	6	6	6	6	6	6	6	6	6	4	6	6	6	6	
Average		15.1	13.0	28.1	12.5	36.8	2.30	3.10	0.25	6.97	123.	88.6	4.95	100.	12.2	-	-	-	-	
Min.		8.42	9.41	19.2	9.94	25.4	1.75	2.31	-0.50	3.08	91.2	71.0	3.56	100.	9.94	-	-	-	-	
Max.		28.3	15.3	43.6	19.8	48.9	2.75	3.88	1.05	11.2	165.	109.	6.39	100.	14.9	-	-	-	-	
Range		19.9	5.91	24.3	9.88	23.4	1.00	1.56	1.55	8.13	74.0	38.2	2.82	0.00	5.00	-	-	-	-	
σ		7.91	2.43	9.38	3.70	10.2	0.42	0.57	0.55	3.37	31.4	14.0	1.28	0.00	2.21	-	-	-	-	
3σ		23.7	7.29	28.1	11.1	30.8	1.28	1.70	1.65	10.1	94.3	42.2	3.85	0.00	6.65	-	-	-	-	
Tolerance		Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	
Upper toleran		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
Standard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	
Lower tolera		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	

Gambar A-17.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-T6 Non Lubrikasi Kecepatan 10 mm/mnt



Report Title



Indar NL HT T6 10

User ID: ADMIN
 User name: Administrator
 Description: FIRST ADMINISTRATOR
 USER

Indar NL HT T6 10
 [Acquisition parameters]
 Scanning mode: XYZ fast scan + Color
 Image size[pixels]: 1024X1024
 Image size[μm]: 1280x1286
 Objective lens: MPLFLN10x
 Zoom: 1x
 DIC: Off

Comment

No.	Resu	Rp[μ]	Rv[μ]	Rz[μ]	Rc[μ]	Rt[μ]	Ra[μ]	Rq[μ]	Rsk	Rku	Rsm	RAq[μ]	Rδc[μ]	Rmr[μ]	Rzjis	λc[μ]	λs[μ]	λf[μ]	File r	
<input checked="" type="checkbox"/>	1		37.5	28.6	66.1	25.1	66.1	4.88	7.31	-0.95	7.30	122.	126.	6.93	100.	28.3	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	2		26.4	19.9	46.3	26.6	46.3	3.93	5.23	-0.28	5.03	197.	106.	7.64	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	3		58.0	20.3	78.4	33.5	78.4	4.31	6.75	1.08	15.6	122.	143.	6.42	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	4		23.9	27.1	51.1	18.0	51.1	2.81	4.16	-0.08	11.5	92.5	119.	4.69	100.	21.6	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	5		9.15	5.43	14.5	8.60	21.6	1.63	2.04	0.43	3.34	180.	79.1	3.62	100.	-	800.	2.50	-	Inda
<input checked="" type="checkbox"/>	6		20.3	9.67	30.0	14.0	30.0	2.15	2.99	1.30	11.5	145.	90.4	4.75	100.	14.0	800.	2.50	-	Inda
Count			6	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6	
Average			29.2	18.5	47.7	21.0	48.9	3.28	4.75	0.25	9.07	143.	110.	5.67	100.	21.3	-	-	-	-
Min.			9.15	5.43	14.5	8.60	21.6	1.63	2.04	-0.95	3.34	92.5	79.1	3.62	100.	14.0	-	-	-	-
Max.			58.0	28.6	78.4	33.5	78.4	4.88	7.31	1.30	15.6	197.	143.	7.64	100.	28.3	-	-	-	-
Range			48.9	23.1	63.8	24.9	56.7	3.25	5.26	2.25	12.3	104.	63.9	4.01	0.00	14.2	-	-	-	-
σ			16.8	9.29	23.2	9.13	21.3	1.28	2.07	0.85	4.64	39.3	23.7	1.55	0.00	7.14	-	-	-	-
3σ			50.5	27.8	69.8	27.4	64.0	3.86	6.23	2.57	13.9	118.	71.1	4.65	0.00	21.4	-	-	-	-
Tolerance			Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Upper tolera			0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Standard			0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-
Lower tolera			0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-

1/2
6/30/2020

Gambar A-18.
 Print Out Hasil Uji kekasaran Permukaan
 Spesimen 6061-T6 *Lubrikasi* Kecepatan 10 mm/mnt

