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## Lampiran 1 (Data Pengukuran)

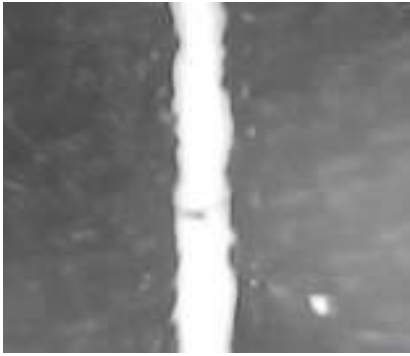
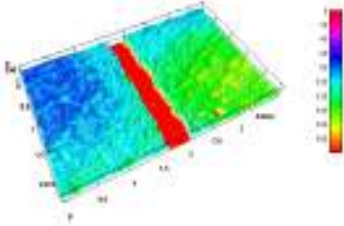
Tabel 1. Data pengukuran hasil pemotongan.

No	Material	Jarak Head (mm)	Kecepatan (mm/s)	Daya (Watt)	kerf width (mm)	Persentase Overcut	Side Line length (mm)	D. Circle (mm)	Overcut	MRR (m <sup>3</sup> min <sup>-1</sup> )
1	Silk Fb	60	100	2,5	0,447	0,006779	48,749	29,798	0,202	8,493
2	Silk Fb	60	100	3,5	0,525	0,029619	48,302	29,137	0,863	9,975
3	Silk Fb	60	100	4,5	0,557	0,073998	47,624	27,933	2,067	10,583
4	Silk Fb	60	100	5,5	0,643	0,084952	47,834	27,651	2,349	12,217
5	Silk Fb	60	150	2,5	0,42	0,040763	48,633	28,825	1,175	11,97
6	Silk Fb	60	150	3,5	0,589	0,009829	48,933	29,708	0,292	16,7865
7	Silk Fb	60	150	4,5	0,593	0,046938	48,311	28,655	1,345	16,9005
8	Silk Fb	60	150	5,5	0,651	0,047047	48,314	28,652	1,348	18,5535
9	Silk Fb	60	200	2,5	0,354	0,002272	49,840	29,932	0,068	13,452
10	Silk Fb	60	200	3,5	0,47	0,030680	48,729	29,107	0,893	17,86
11	Silk Fb	60	200	4,5	0,572	0,045806	48,804	28,686	1,314	21,736
12	Silk Fb	60	200	5,5	0,552	0,071850	48,042	27,989	2,011	20,976
13	Wool FB	60	100	2,5	0,341	0,028172	49,158	29,178	0,822	9,548
14	Wool FB	60	100	3,5	0,466	0,051009	48,898	28,544	1,456	13,048
15	Wool FB	60	100	4,5	0,545	0,053778	48,642	28,469	1,531	15,26
16	Wool FB	60	100	5,5	0,662	0,076233	47,929	27,875	2,125	18,536
17	Wool FB	60	150	2,5	0,251	0,002272	49,683	29,932	0,068	10,542
18	Wool FB	60	150	3,5	0,377	0,018123	49,365	29,466	0,534	15,834
19	Wool FB	60	150	4,5	0,483	0,021416	48,934	29,371	0,629	20,286
20	Wool FB	60	150	5,5	0,528	0,027608	48,537	29,194	0,806	22,176
21	Wool FB	60	200	2,5	0,109	0,005227	49,658	29,844	0,156	6,104
22	Wool FB	60	200	3,5	0,202	0,023856	49,514	29,301	0,699	11,312
23	Wool FB	60	200	4,5	0,355	0,021938	49,030	29,356	0,644	19,88
24	Wool FB	60	200	5,5	0,421	0,049061	48,704	28,597	1,403	23,576
25	Cotton Fb	60	100	2,5	0,61	0,030503	48,737	29,112	0,888	13,42
26	Cotton Fb	60	100	3,5	0,739	0,037739	48,689	28,909	1,091	16,258
27	Cotton Fb	60	100	4,5	0,87	0,042463	48,239	28,778	1,222	19,14
28	Cotton Fb	60	100	5,5	0,925	0,054259	48,015	28,456	1,544	20,35
29	Cotton Fb	60	150	2,5	0,581	0,004621	49,590	29,862	0,138	19,173
30	Cotton Fb	60	150	3,5	0,685	0,013890	49,423	29,589	0,411	22,605
31	Cotton Fb	60	150	4,5	0,707	0,021138	49,326	29,379	0,621	23,331


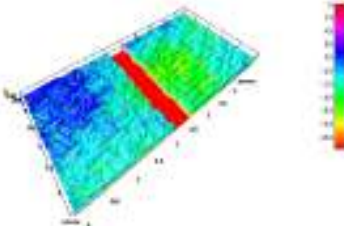
32	Cotton Fb	60	150	5,5	0,878	0,024066	49,289	29,295	0,705	28,974
33	Cotton Fb	60	200	2,5	0,416	0,012385	49,205	29,633	0,367	18,304
34	Cotton Fb	60	200	3,5	0,538	0,033841	48,716	29,018	0,982	23,672
35	Cotton Fb	60	200	4,5	0,69	0,038386	48,588	28,891	1,109	30,36
36	Cotton Fb	60	200	5,5	0,738	0,065871	48,265	28,146	1,854	32,472

## Lampiran 2 (Hasil Spektrum Potongan)


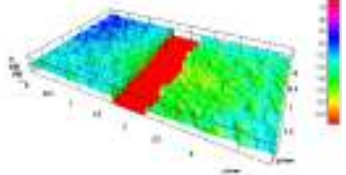
Tabel 1. Data spektrum potongan Kain wool

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	100	2,5	  <p>Hasil Potongan tidak terjadi defect</p>


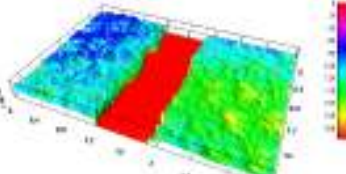
Tabel 2. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	100	3,5	  <p>Hasil Potongan tidak terjadi defect</p>

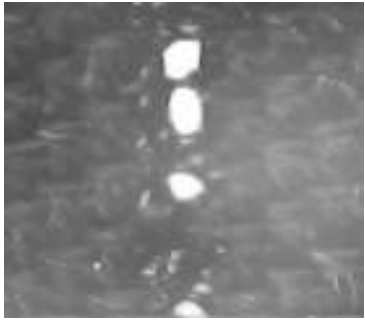
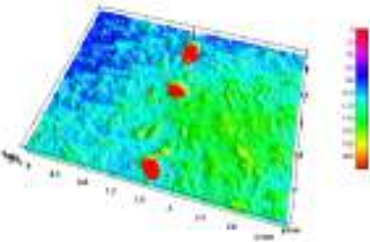
Tabel 3. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	100	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

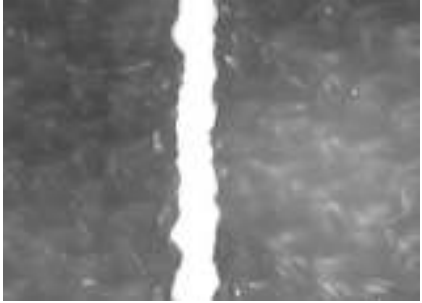
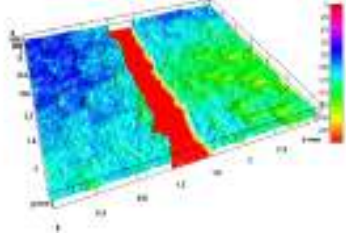
Tabel 4. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	100	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			


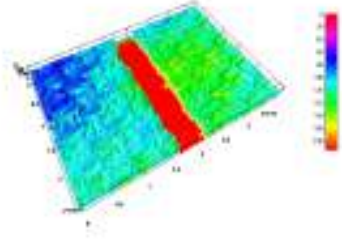
Tabel 5. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	150	2,5	<p>Hasil Potongan terjadi defect</p>
			


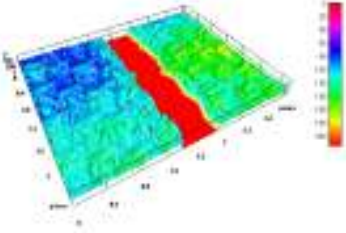
Tabel 6. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	150	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 7. Data spektrum potongan


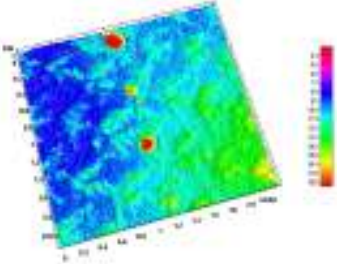
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	150	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 8. Data spektrum potongan


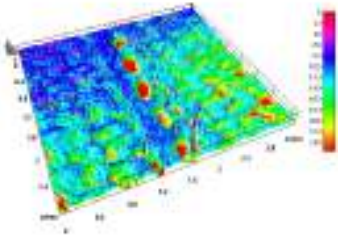
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	150	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			




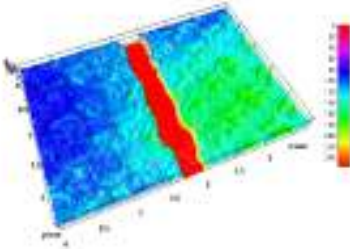
Tabel 9. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	200	2,5	Hasil Potongan terjadi defect
 			


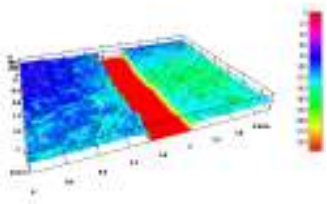
Tabel 10. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	200	3,5	Hasil Potongan terjadi defect
 			

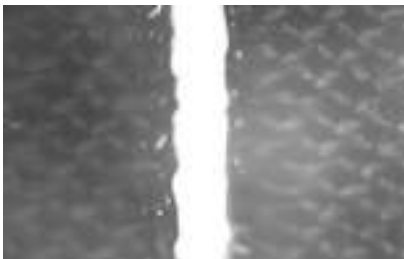
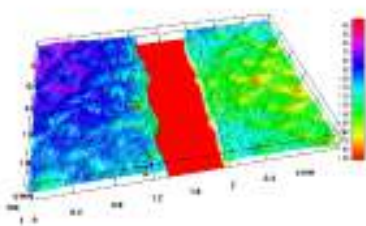
Tabel 11. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	200	4,5	Hasil Potongan tidak terjadi defect
 			


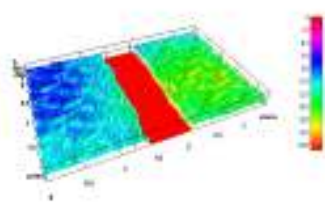
Tabel 12. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Wool	200	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			


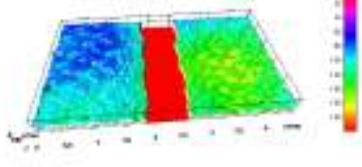
Tabel 13. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katun	100	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			


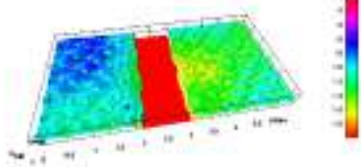
Tabel 14. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katun	100	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			

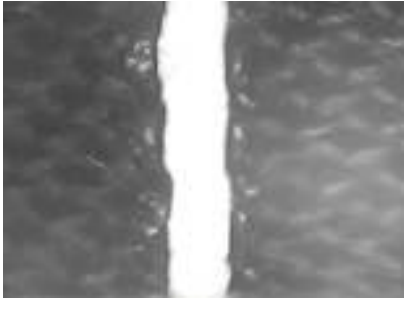
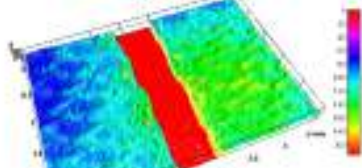
Tabel 15. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katun	100	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

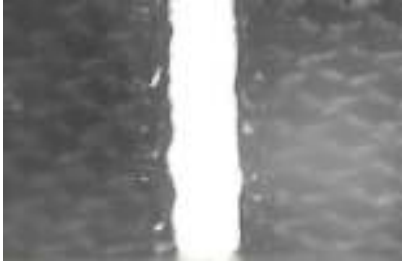
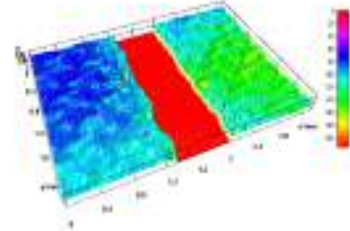
Tabel 16. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katun	100	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			


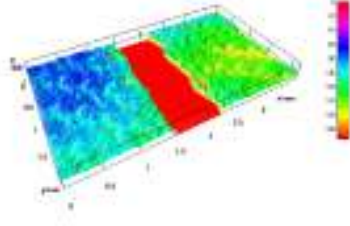
Tabel 17. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katun	150	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			

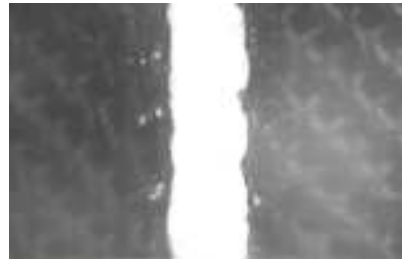
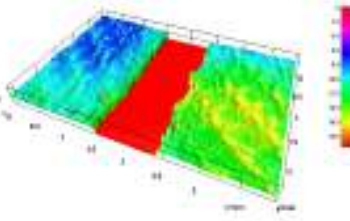
Tabel 18. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain katoun	150	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			

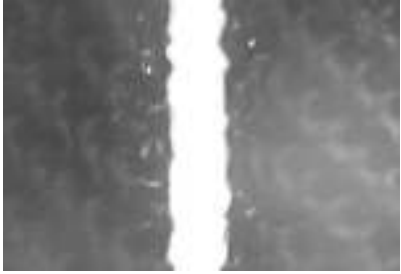
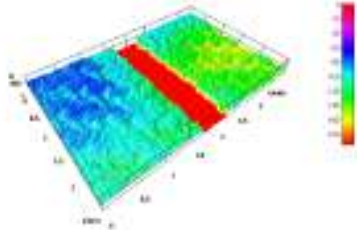
Tabel 19. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	150	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

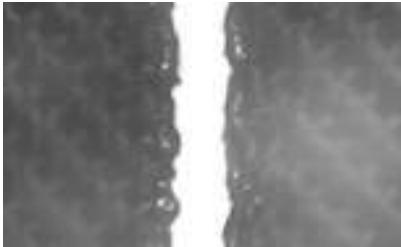
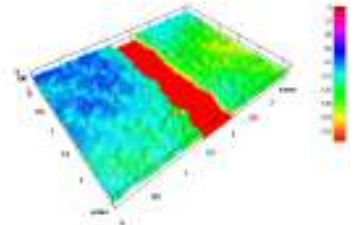
Tabel 20. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	150	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			

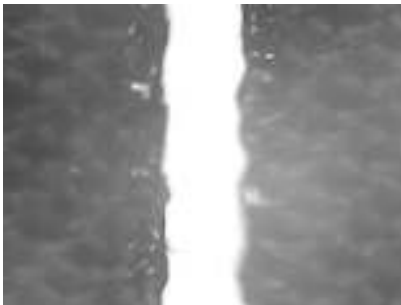
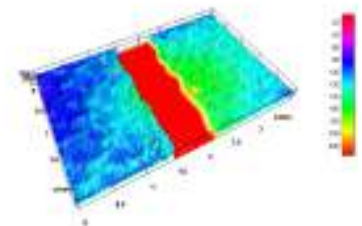
Tabel 21. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	200	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			

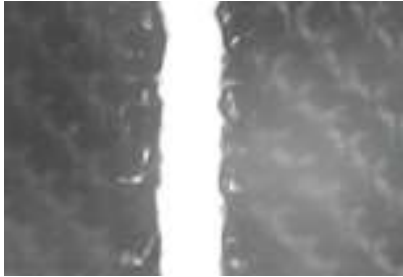
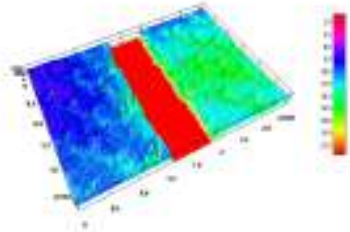
Tabel 22. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	200	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			


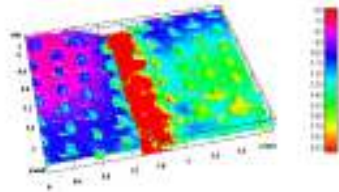
Tabel 23. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	200	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			


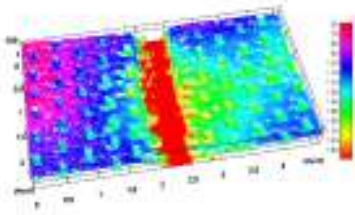
Tabel 24. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Katun	200	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 25. Data spektrum potongan


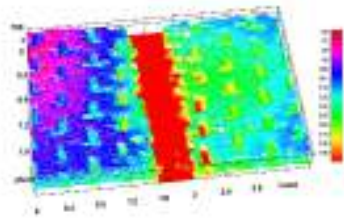
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	100	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 26. Data spektrum potongan


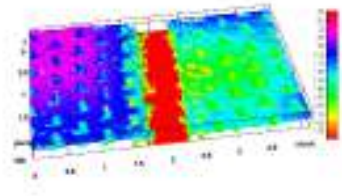
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	100	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			




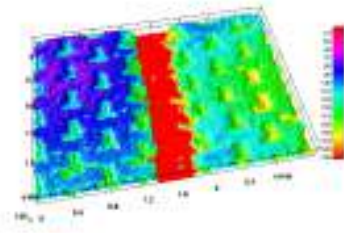
Tabel 27. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	100	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

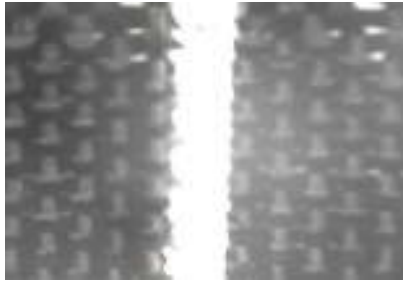
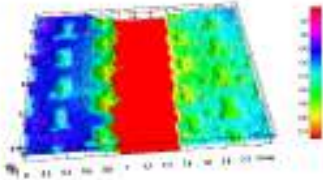
Tabel 28. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	100	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			


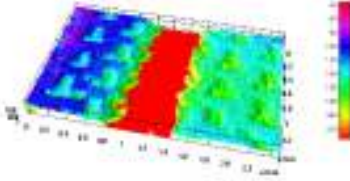
Tabel 29. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	150	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			


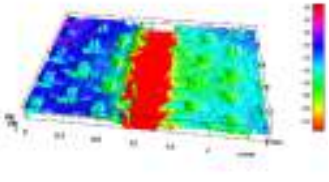
Tabel 30. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	150	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 31. Data spektrum potongan


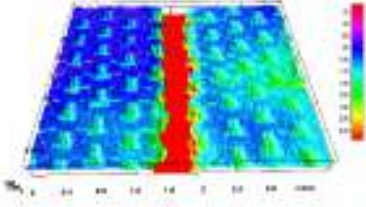
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	150	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 32. Data spektrum potongan


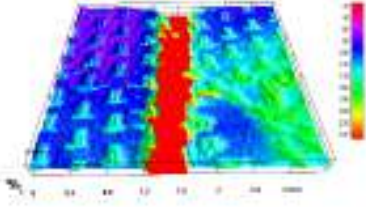
Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	150	5,5	<p>Hasil Potongan tidak terjadi defect</p>
			




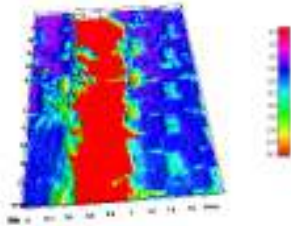
Tabel 33. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	200	2,5	<p>Hasil Potongan tidak terjadi defect</p>
			


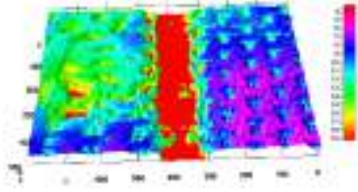
Tabel 34. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	200	3,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 35. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	200	4,5	<p>Hasil Potongan tidak terjadi defect</p>
			

Tabel 36. Data spektrum potongan

Jenis Material	Kecepatan (mm/s)	Daya (Watt)	Keterangan
Kain Sutra	200	5,5	Hasil Potongan tidak terjadi defect
			

### Lampiran 3 (Mesin CNC Laser cutting)

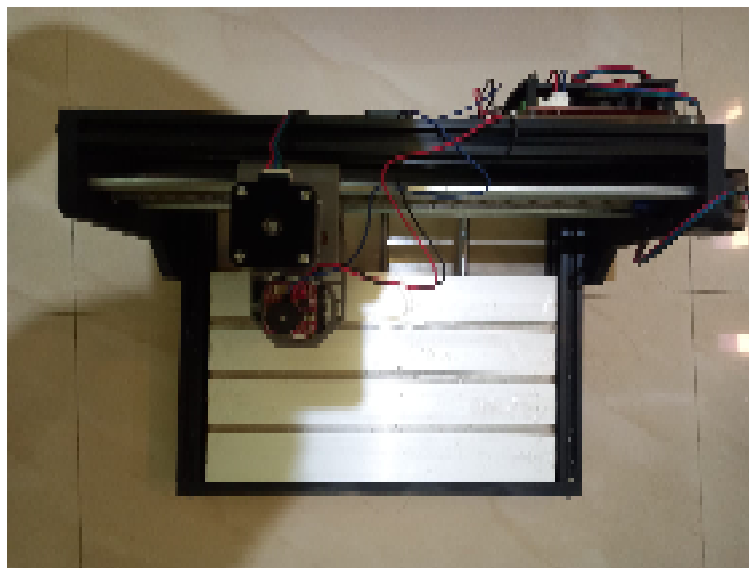
Mesin CNC Laser Cutting



Gambar 1 Tampak Depan Mesin CNC Laser Cutting



Gambar 2 Tampak Depan Mesin CNC laser cutting



Gambar 3 Tampak Atas Mesin CNC laser Cutting