

DAFTAR PUSTAKA

Akademi Komunitas Industri Tekstil dan Produk Tekstil Surakarta (2018); *Buku Pedoman Praktik Kerja Lapangan Akademi Komunitas Industri Tesktil dan Produk Tekstil Surakarta*

<http://www.muratec-vortex.com>. (Diakses *online* 16 juli 2019)

<https://indonesian.alibaba.com>. (Diakses *online* 02 agustus 2019)

Makki, Ibrahim. (2016): *Modul Perencanaan Produksi Tekstil*.

Pratiwi, Winda A. R. (2018): *Analisis Perbaikan Ketidakrataan Benang P/V. 30'S di Mesin Ring Spinning LR 6/A ditinjau dari Uster Tester 5*, Laporan Praktik Kerja Lapangan

LAMPIRAN

Lampiran 1 Mesin *Muratec Vortex Spinning*.



Sumber : : <http://www.muratec-vortex.com>

Lampiran 2 gambar trial tekanan udara nozzle pada angka 45 Mpa.

USTERB TESTER B - 5400 R.S.T. Tue 27 08 19 10:18 Operator DEVI Page 1
 PT EXCELLENCE QUALITIES YARN BALONGBENDO- SIDGARJO

TU L15-1 Catalog EGY Temp 24.8 °C Ret.H 34.5 %
 Style CONE Sample ID 60550 Nom. count No: 25 Nom. twist 0.7mm
 Tests 10 / 1 vs 400 m/min t= 1 mm Mass. slot 5 Short stable Absorber 87 %

DAILY REPORT

Article PE Material class Yarn Mach. Nr. V.03
 Uster Statistic 100% PES, anjat yarn, cones, 2013
 Fiber Polyester 1.2den 38mm 100%
 2S PE 420 W - TRIAL TEKANAN NOZZLE = 45PC- BROWN DIAMOND

Total tests : 10 / 10 Single test(s)

Nr	UP	Cv%	Cv% 1m	Cv% 3m	Cv% 10m	Indra	Thick 40%	Thick 50%	Thick 55%	Thick 50%	Nepp +140%	Nepp +200%	Nepp +280%	Nepp +400%	H	SH
	%	%	%	%	%		mm	mm	mm	mm	mm	mm	mm	mm		
1	9.10	11.48	1.40	2.28	1.55	1.44	40.0	0.0	52.5	2.5	10.0	2.5	0.0	0.0	4.67	0.94
2	9.18	11.52	1.29	2.14	1.15	1.45	35.0	2.5	60.0	0.0	7.5	0.0	0.0	0.0	4.55	0.85
3	9.04	11.58	1.16	2.09	1.22	1.43	35.0	0.0	77.5	2.5	10.0	0.0	0.0	0.0	4.43	0.89
4	9.26	11.61	1.47	2.70	1.27	1.46	50.0	0.0	77.5	0.0	10.0	0.0	0.0	0.0	4.52	0.88
5	9.41	11.82	1.07	1.99	1.37	1.49	75.0	0.0	95.0	7.5	17.5	2.5	2.5	0.0	4.83	0.99
6	9.09	11.45	1.46	2.35	1.59	1.44	47.5	0.0	35.0	2.5	12.5	2.5	0.0	0.0	4.48	0.88
7	9.21	11.59	1.42	2.11	1.48	1.46	40.0	0.0	60.0	0.0	2.5	0.0	0.0	0.0	4.45	0.84
8	9.23	11.72	1.21	2.01	1.14	1.47	77.5	0.0	70.0	2.5	12.5	0.0	0.0	0.0	4.49	0.85
9	9.39	11.89	1.26	2.14	1.30	1.48	55.0	0.0	95.0	7.5	10.0	1.5	0.0	0.0	4.29	0.82
10	9.50	12.02	1.31	2.05	1.40	1.51	82.5	2.5	147.5	5.0	7.5	2.5	2.5	0.0	4.30	0.85
Mean	9.25	11.64	1.30	2.10	1.34	1.46	53.5	1.0	61.0	3.0	10.8	1.8	0.5	0.0	4.50	0.87

Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 3 gambar trial tekanan udara nozzle pada angka 55 Mpa.

DAILY REPORT																	
Article: PE		Material class: Yarn				Mach. Nr. V.03											
Uster Statistics: 100% PES, arjet yarn, cones, 2013																	
Fiber: Polyester 1.2den 30mm 100%																	
28 PE 429 W - TRIAL TEKANAN NOZZLE = 55 JPC BROWN DIAMOND																	
Total tests : 10 / 10 Single test(s)																	
Nr	U%	Cvm	Cvm 1m	Cvm 3m	Cvm 10m	Index	Thin -40%	Thin -50%	Thick +35%	Thick +50%	Neps +140%	Neps +200%	Neps +260%	Neps +400%	H	sh	
	%	%	%	%	%		/km	/km	/km	/km	/km	/km	/km	/km			
1	9.09	11.40	3.26	2.03	1.24	1.43	35.0	2.5	40.0	0.0	15.0	0.0	0.0	0.0	4.05	0.75	
2	9.32	11.73	3.72	2.28	1.15	1.48	47.5	2.5	65.0	0.0	15.0	2.5	0.0	0.0	4.14	0.74	
3	9.25	11.60	3.14	1.86	1.13	1.45	42.5	0.0	60.0	0.0	2.5	0.0	0.0	0.0	4.23	0.74	
4	9.20	11.56	3.36	2.19	1.39	1.45	55.0	0.0	62.5	0.0	2.5	0.0	0.0	0.0	4.14	0.74	
5	9.46	11.89	3.21	2.01	1.33	1.49	77.5	2.5	75.0	0.0	2.5	0.0	0.0	0.0	4.32	0.77	
6	9.07	11.42	3.17	2.02	1.06	1.44	37.5	2.5	67.5	0.0	2.5	0.0	0.0	0.0	4.21	0.71	
7	9.55	11.98	3.41	2.14	1.32	1.51	42.5	2.5	70.0	0.0	7.5	0.0	0.0	0.0	4.07	0.69	
8	9.41	11.85	3.25	2.23	1.52	1.49	55.0	0.0	92.5	7.5	2.5	0.0	0.0	0.0	4.25	0.72	
9	9.11	11.48	3.24	2.22	1.35	1.44	40.0	0.0	65.0	5.0	7.5	2.5	0.0	0.0	4.05	0.74	
10	8.93	11.28	3.29	1.96	1.18	1.42	42.5	3.0	32.5	0.0	7.5	0.0	0.0	0.0	4.04	0.68	
Mean	9.24	11.62	3.30	2.09	1.27	1.46	47.5	1.8	63.0	1.3	6.5	0.5	0.0	0.0	4.15	0.73	

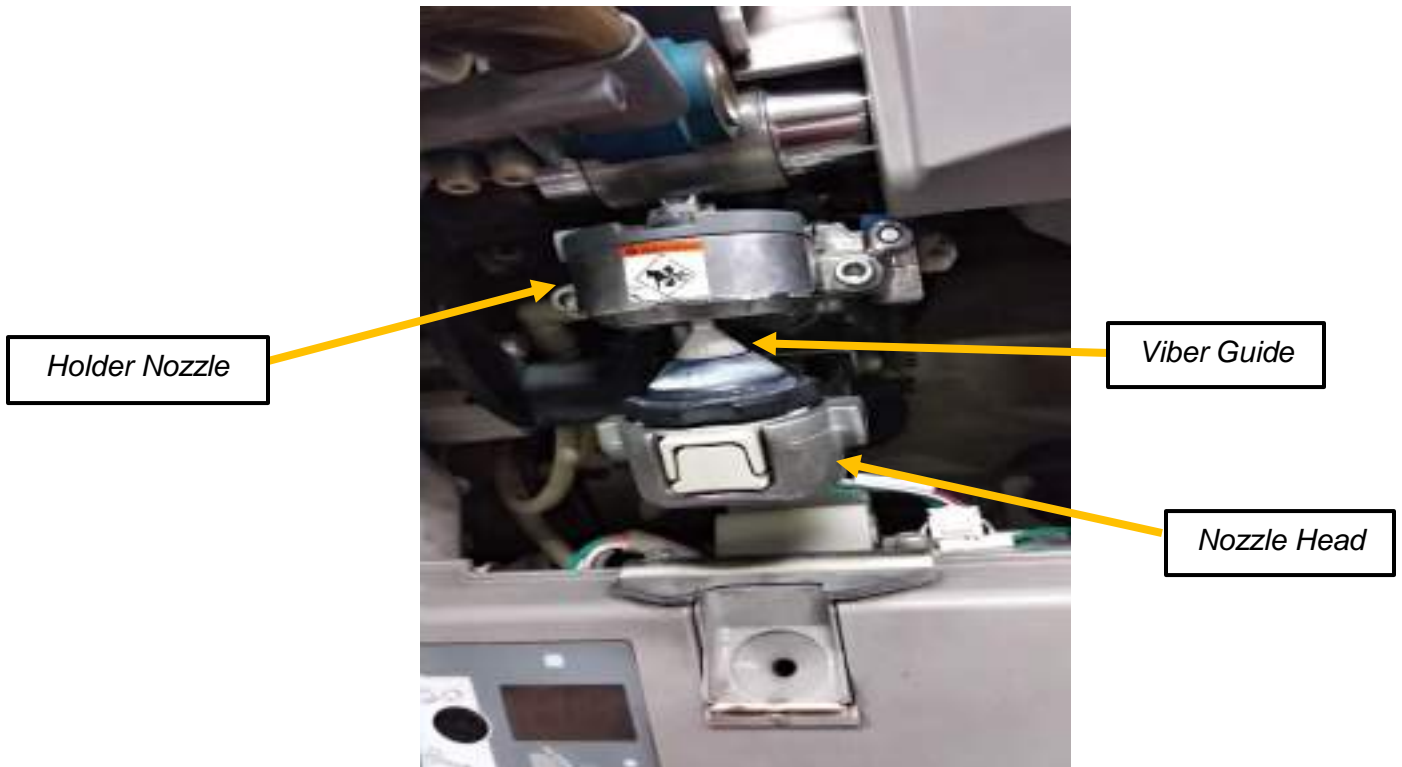
Sumber : Quality Control PT.Excellence Qualities Yarn.

Lampiran 4 gambar trial tekanan udara nozzle pada angka 60 Mpa.

USTER® TESTER S - 5400 R 5.7		Tue 27 08 19 10:03		Operator DEVI		Page 1	
PT EXCELLENCE QUALITIES YARN		BALONGRENDO- SIDOARJO					
TU	LTS-1	Catalog	EQY	Temp	24.4 °C	Rel H	34.5 %
Style	CONF	Sample ID	60548	Norm count	Nec 28	Norm. twist	0 Tm
Tests	10 / 1	v= 400 m/min	t= 1 min	Moos. slot	3	Short staple	
						Absorber	67 %
DAILY REPORT							
Article: PE		Material class: Yarn		Mach. Nr. V.03			
Uster Statistics: 100% PES, arjet yarn, cones, 2013							
Fiber: Polyester 1.2den 30mm 100%							
28 PE 429 W - TRIAL TEKANAN NOZZLE = 60JPC BROWN DIAMOND							
Total tests : 10 / 10 Single test(s)							
Nr	U%	Cvm	Cvm 1m	Cvm 3m	Cvm 10m	Index	Thin -40%
	%	%	%	%	%		/km
1	9.10	11.66	3.30	1.85	1.05	1.44	50.0
2	9.17	11.63	3.38	2.06	1.21	1.45	37.5
3	9.11	11.45	3.31	1.85	1.13	1.44	40.0
4	9.18	11.59	3.45	2.23	1.32	1.49	45.0
5	9.50	11.96	3.06	2.04	1.11	1.50	87.5
6	9.14	11.50	3.30	2.24	1.31	1.43	87.5
7	9.30	11.73	3.94	2.71	1.80	1.48	50.0
8	9.43	11.85	3.13	1.95	0.97	1.48	72.5
9	9.34	12.01	3.51	2.26	1.13	1.51	90.0
10	9.78	12.34	3.37	2.21	1.47	1.58	65.0
Mean	9.33	11.74	3.35	2.15	1.27	1.48	60.8

Sumber : Quality Control PT.Excellence Qualities Yarn.

Lampiran 5 Gambar *nozzle* bagiannya



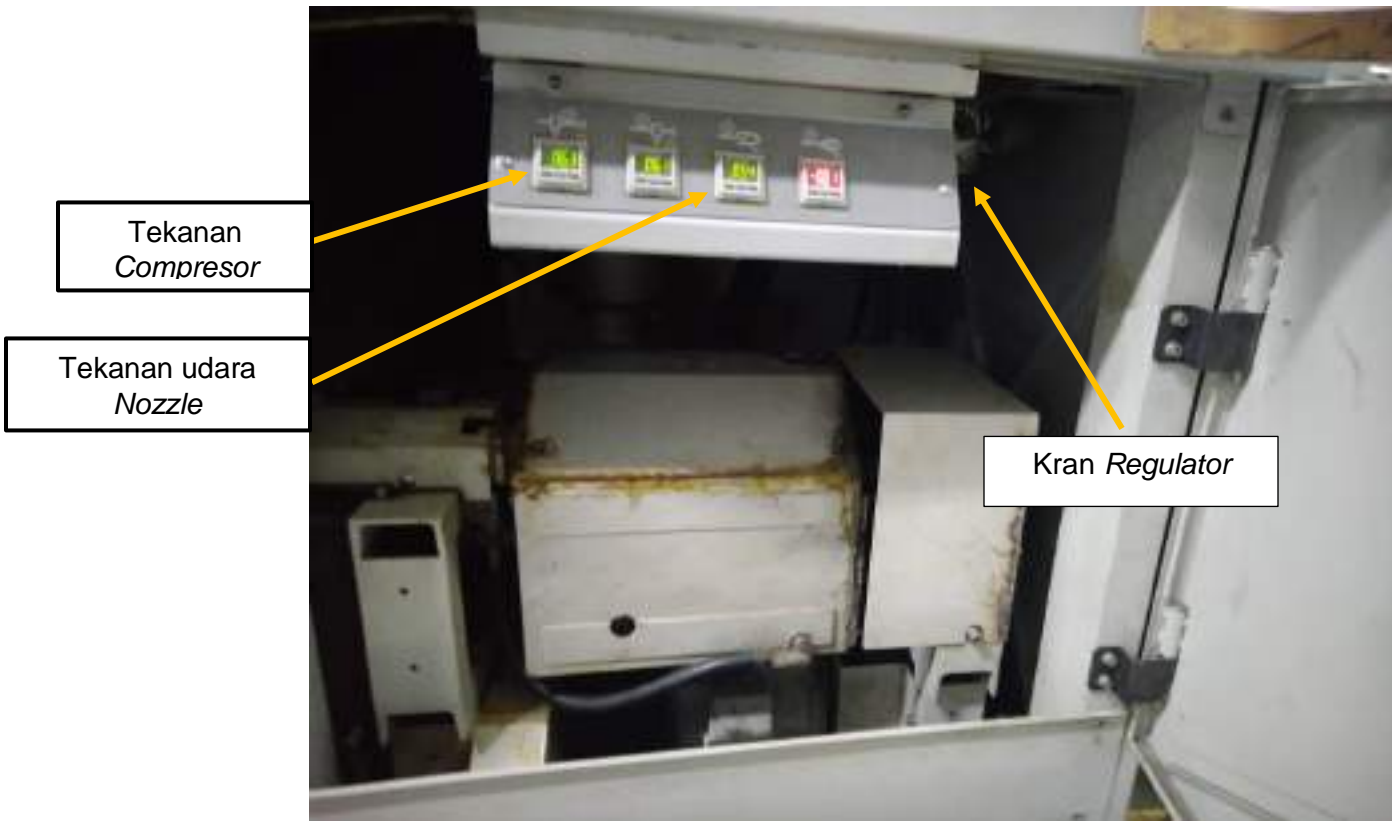
Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 6 Terjadinya *Twist* semu pada *nozzle*



Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 7 *Regulator* tekanan udara pada mesin *Muratec Vortex Spinning*



Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 8 Data *Trial* RKM satuan 45 MPa

Table and Diagrams

Article PE Material class Yarn
 Uster Statistics 100% PES, arjet yarn, cones, 2013 Mach. Nr. V.03
 28 PEV 428 W - TRIAL TEKANAN NOZZLE = 45 / PC BROWN DIAMOND

Total : 10 / 100 Single test(s)

Nr	Time to break	B-Force	Elong.	Tenacity	B-Work
	s	gF	%	Rkm	gF.cm
1/10	0.55	595.2	9.19	28.22	1325
2/10	0.56	595.7	9.26	28.24	1360
3/10	0.57	596.4	9.54	27.81	1364
4/10	0.55	590.1	9.14	27.98	1325
5/10	0.55	559.8	9.08	26.54	1236
6/10	0.54	564.8	8.99	26.78	1234
7/10	0.58	634.8	9.63	30.10	1491
8/10	0.55	607.0	9.22	28.78	1359
9/10	0.56	618.7	9.28	29.34	1397
10/10	0.51	536.0	8.56	25.41	1137
Mean	0.55	588.8	9.19	27.92	1322
CV	6.74	9.44	6.75	9.44	14.82
Min	0.43	409.5	7.22	19.42	737.4
Max	0.63	687.2	10.55	32.58	1706

Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 9 Data *Trial* RKM satuan 55 MPa

Table and Diagrams

Article PE Material class Yarn
 Uster Statistics 100% PES, arjet yarn, cones, 2013 Mach. Nr. V.03
 28 PEV 428 W - TRIAL TEKANAN NOZZLE = 55 / PC BROWN DIAMOND

Total : 10 / 100 Single test(s)

Nr	Time to break	B-Force	Elong.	Tenacity	B-Work
	s	gF	%	Rkm	gF.cm
1/10	0.57	602.8	8.47	28.98	1385
2/10	0.54	583.4	8.99	27.86	1301
3/10	0.56	582.5	9.58	27.62	1340
4/10	0.59	612.9	8.77	28.26	1455
5/10	0.57	589.1	8.53	27.27	1314
6/10	0.58	588.1	8.99	27.89	1362
7/10	0.55	600.3	8.22	28.48	1387
8/10	0.54	582.8	8.81	28.88	1380
9/10	0.57	606.7	9.49	28.70	1407
10/10	0.56	588.7	8.29	27.88	1350
Mean	0.56	589.9	8.98	27.97	1353
CV	6.27	8.29	8.29	8.29	13.49
Min	0.47	482.7	7.83	22.89	876.3
Max	0.62	690.7	10.34	32.75	1701

Sumber : *Quality Control* PT.Excellence Qualities Yarn.

Lampiran 10 Data *Trial* RKM satuan 60 MPa

Table and Diagrams

Article PE Material class Yarn Mach. Nr V 03
 User Statistics 100% PES, aryl yarn, cones, 2013
 28 PEV 428 W - TRIAL TEKANAN NOZZLE = 60 / PC BROWN DIAMOND

Total: 10 / 100 Single 388(s)

Nr	Time to break s	B-Force gF	Elong. %	Tenacity Rkm	B-Work gF.cm
1/10	0.59	508.7	9.80	28.86	1452
2/10	0.58	624.5	9.47	29.61	1498
3/10	0.59	620.3	9.74	29.41	1480
4/10	0.61	608.3	10.18	28.37	1454
5/10	0.58	594.5	9.70	28.19	1401
6/10	0.57	690.3	9.51	27.99	1339
7/10	0.57	599.6	9.54	28.43	1412
8/10	0.54	594.7	9.04	28.20	1320
9/10	0.56	622.2	9.37	29.50	1404
10/10	0.57	628.0	9.42	29.78	1450
Mean	0.58	608.1	9.59	28.63	1416
CV	6.89	8.51	6.88	8.51	14.15
Min	0.48	431.7	7.70	20.47	823.8
Max	0.66	695.9	10.91	33.00	1879

Sumber : *Quality Control* PT.Excellence Qualities Yarn.