

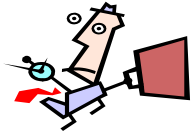
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Less time!



More data!



More to analyze!



Less frustration!

LogBook Discovery

The screenshot shows the LogBook Discovery software interface. At the top, there are tabs for 'Evenness', 'Single End', 'TensoJet', 'Twist', 'Count & Skein', 'Classimat', and 'Other'. The main area contains several data entry fields: Project (70237), Plant Code (P2), Track, Ref., Rec'd (11/30/2002), Complete, Process (YARN), Product (26.0-100%), Material (100% COTTON), Work By, and Test Type (Yarn). A 'Discovery Yarn' button is highlighted. Below these fields are two tables. The first table has columns: Sample, Device, Test Date, Test Time, Breaks, # of Test, Test Wt, and Count. The second table has columns: Sample, Package, Rep, Brk Time, Brk Force, Elo, Tenacity, and Work. The bottom left corner shows the number 030925.

LogBook Discovery is an inclusive data management system for the yarn producer, as well as for the vertical manufacturing environment. Automatic data collection allows production trend information to be reviewed quickly and efficiently. Extensive reporting and graphing tools give the user the ability to review large amounts of test data in a variety of methods.

Machine Settings is a component of Discovery which allows the producer to enter machine specifications such as rotor or ring information, speeds, roll settings, and twist. This information is linked automatically to the corresponding yarns, product numbers, or customers.

TECHWARE INCORPORATED - Summary Report

Plant Code:P1 Product:26.0-100%
Process: YARN

Project	Test Date	Machine	Count	CV %	SE Break	Break CV %	Avg. Elo.	Thin CV/m	Thick (+50%)	Neps (+280%)	Hairiness	Classifault					Friction			Package Wt.			
												Total Faults	Obj. Faults	Thick Neps	Thin EFG	Thin H11	Thin H22	Avg.	CV %		Max		
68694	09/02/02	S031	26.16	0.79	226	7.96	4.27	15.67	70	151	17	4.50	0	13	11	0	8	0	0.12	0.00	0.12	7.66	
68713	09/03/02	S022	25.88	0.90	236	8.00	4.36	0	12	9	0	11	1	0	11	1	0	0.11	5.75	0.09	0.00	0.09	7.97
68786	09/05/02	S031	25.99	1.07	231	8.04	4.44	15.71	65	164	16	4.53	0	12	9	1	11	0	0.09	0.00	0.09	7.27	
68822	09/07/02	S023	25.76	1.03	229	9.35	4.50	15.60	69	165	18	4.62	0	17	14	2	7	0	0.12	0.00	0.12	7.47	
68822	09/07/02	S026	25.90	1.16	230	9.26	4.28	0	18	15	0	2	0	0	18	15	0	0	-	-	-	7.99	
68822	09/07/02	S033	25.47	1.13	230	9.17	4.16	15.39	51	145	15	4.47	0	26	20	1	6	0	0.12	0.00	0.12	7.99	
68822	09/07/02	S057	25.54	0.54	227	13.75	4.27	0	17	14	0	6	0	0	17	14	0	0	-	-	-	8.46	
68822	09/07/02	S065	25.75	1.66	227	8.88	4.43	15.56	52	154	10	4.42	1	18	15	2	2	0	0.11	0.00	0.11	7.97	
68837	09/08/02	S033	25.50	0.43	231	8.62	4.15	15.44	50	137	18	4.79	1	31	29	0	7	0	0.11	-	-	-	
68858	09/08/02	S130	-	-	-	-	-	16.12	82	185	18	5.39	-	-	-	-	-	-	-	-	-	-	
68861	09/09/02	S002	25.64	0.43	221	8.41	4.03	0	20	15	2	1	0	0	20	15	2	1	0	0	0	7.65	
68861	09/09/02	S024	25.76	0.66	222	11.23	4.53	0	20	15	2	1	0	0	20	15	2	1	0	0	0	8.43	
68861	09/09/02	S033	25.64	0.32	235	7.64	4.43	15.53	54	143	18	4.31	0	18	18	0	4	0	0.09	0.00	0.09	8.09	
68861	09/09/02	S055	25.68	0.54	229	8.08	4.40	15.62	60	144	16	4.32	0	18	18	0	7	0	0.11	0.11	0.11	8.03	
68861	09/09/02	S065	-	-	-	-	-	15.05	42	134	11	5.70	-	-	-	-	-	-	-	-	-	-	
68915	09/12/02	S044	25.73	0.73	233	8.65	4.58	0	13	11	0	3	0	0	13	11	0	3	0	0	0	8.22	
68915	09/12/02	S056	25.80	1.11	237	7.69	4.59	15.42	52	144	15	4.84	0	16	10	1	4	0	0.06	0.00	0.06	7.97	
68915	09/12/02	S064	25.63	0.58	220	11.28	4.06	0	15	9	2	5	0	0	15	9	2	5	0	-	-	8.00	
68915	09/12/02	S066	25.73	0.93	238	8.20	4.37	15.41	45	137	10	5.30	1	14	11	2	3	0	0.12	0.00	0.12	7.85	
Average:			25.74	0.82	229	9.08	4.33	15.54	57	150	15	4.76	0	17	14	0	5	0	0.10	0.52	0.10	7.93	
Target:			26.00	-	230	3.50	14.80	45	100	14	4.50	0	15	20	0	***	0	***	***	***	***	***	
Limit Min:			25.75	-	197	-	-	51	140	12	4.23	0	26	21	0	***	0	***	***	***	***	***	
Max:			26.10	-	251	-	-	16.25	89	212	34	4.97	0	81	70	1	17	0	***	***	***	***	

Company Profile

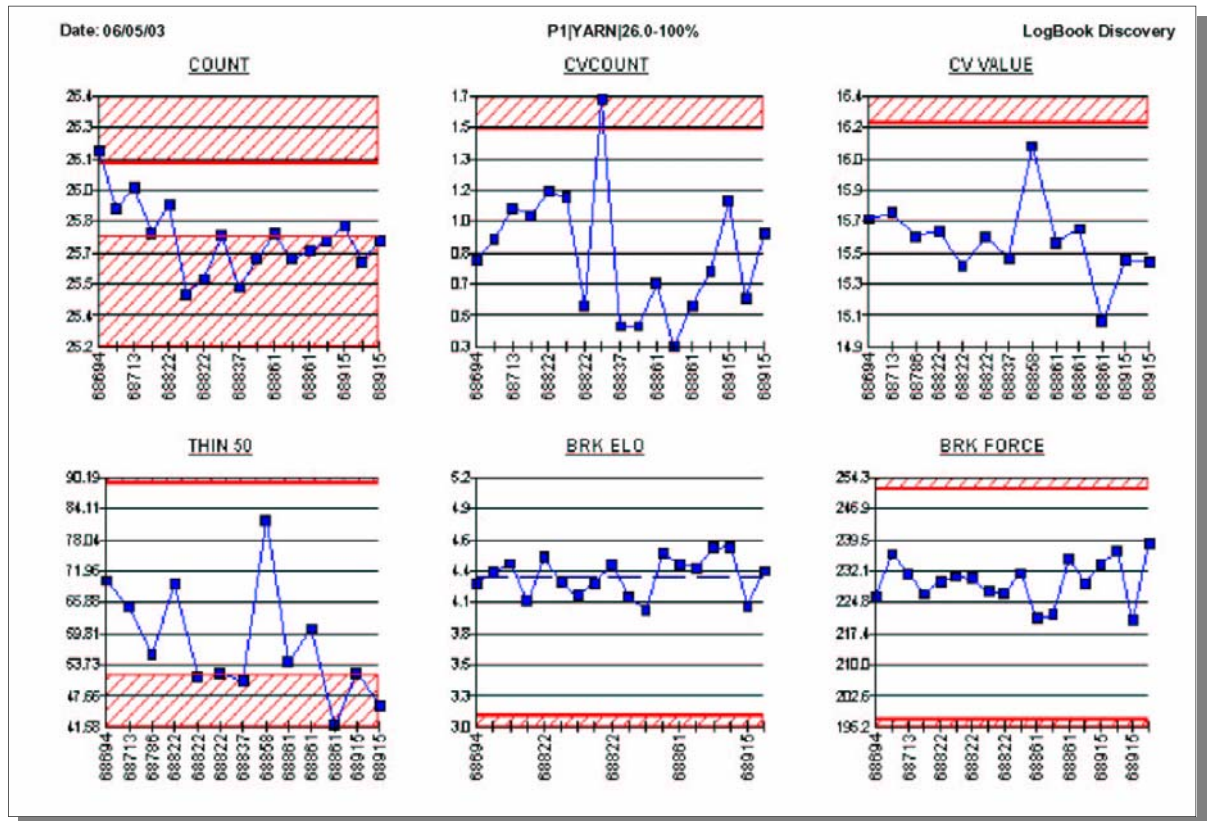
TechWare Incorporated was established in 1991 developing software for the Textile Industry. Our main business was founded on a family of products known as LogBook. The Log-Book product line features Automatic Data Collection, Statistical Process Controls (SPC) and Laboratory Data Management for every

industry. The newest additions to the TechWare product line are **MainTrac**, a preventive maintenance application, and **JobTrac**, our solution for the brick and concrete block industry. These additional products have allowed us to branch out into other industries such as Chemicals, Plastics and Glass offering the latest in Total Project Management.



Key Benefits

- Reduce labor costs by efficient data collection.
- Pin point concerns and correct them before they become costly.
- Centralized data.
- Data integrity by automatic collection from devices.
- Easy, unlimited access to data.



Date: 10/03/03

TECHWARE INC. - Preparation Report

Page:

Plant Code: P2 Product: SILVER 100% C

Week Ending Date	Cards								Breakers		Finishers					
	Weight		UT3	AFIS				UT3	Weight	UT3	AFIS				NIR	
	Count Nec	Count CV%	Even CV%	Neps	Trash	SFC (w)	VFM	Even CV%	Count Nec	Count CV%	Even CV%	Neps	Trash	SFC (w)	VFM	Dlend
06/07/03	74.21	1.28	3.74	168	26	8.94	0.38	4.07	65.58	1.07	4.14	127	14	9.03	0.24	-
06/14/03	74.50	1.12	3.62					4.12	65.08	0.87	4.01					-
06/21/03	74.35	1.38	3.83	127	19	9.18	0.28	4.07	65.35	1.02	4.06	171	20	9.45	0.31	-
06/28/03	74.01	1.05	3.55	166	21	9.74	0.33	4.19	64.97	0.76	4.03					-
07/05/03	74.24	1.24	3.68					3.83	65.43	0.96	3.99					-
07/12/03	74.23	1.44	3.67	166	20	10.33	0.35	4.15	64.90	0.95	4.00					-
07/19/03	73.77	1.21	3.47					3.90	65.13	0.56	4.16					-
08/02/03	74.44	1.31	4.06	76	16	11.65	0.23	4.06	65.39	0.89	4.06					-
08/09/03	74.40	1.46	3.75	152	19	10.72	0.29	4.19	65.37	0.95	4.10	178	20	10.80	0.31	-
08/16/03	74.16	1.62	3.60					4.32	66.38	1.04	4.13	178	22	11.03	0.35	-
08/23/03	73.72	1.38	3.61	178	22	9.58	0.35	4.19	64.94	1.11	4.05					-
08/30/03	73.61	1.52	3.70	140	19	10.32	0.30	4.12	64.92	0.81	4.03	155	20	10.51	0.31	-
Average:	74.14	1.33	3.69	146.6	20.2	10.05	0.31	4.10	65.20	0.91	4.06	161.8	19.2	10.16	0.30	****
4th Quarter	74.43	1.54	3.67	156	20	10.17	0.31	4.05	65.47	1.01	4.05	172	20	9.85	0.30	-
Previous Year	74.51	1.59	3.70	147	19	10.52	0.29	4.07	65.60	0.99	4.01	172	19	10.31	0.30	-
Target:	74.00	-	4.25	100.00	-	12.00	0.30	4.00	65.00	-	4.00	160.00	20.00	10.00	0.20	-
Limit Min:	73.34	-	3.02	142.00	-	9.87	0.08	-	64.78	-	-	-	-	-	-	-
Max:	76.07	-	4.60	527.00	-	11.68	1.53	5.00	66.15	-	4.50	175.00	25.00	12.00	0.30	-

Features

- Automatic data collection from most electronic devices.
- Define tests, modify reports and graphs to meet specific requirements.
- Options for PDF documents.
- Automatic report generation.
- Import data for easy analysis.
- Export data to other applications for additional manipulation.

Other TechWare Systems

LogBook Solutions
MainTrac
JobTrac
Endeavor

Recommended Hardware Requirements: Desktop PC, Pentium II or higher IBM PC-compatible computer w/250MB free hard drive space, 64MB RAM and Windows 9x, 2000, XP or NT. Laser or Ink Jet Printer.