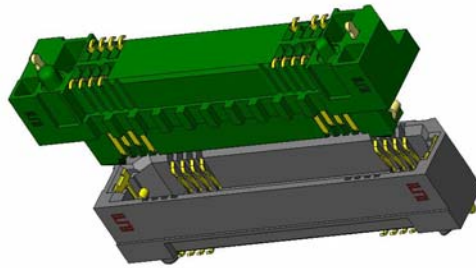




Project Number:		Tracking Code: TC0752--1518 & TC082--1540			
Requested by: Greg Brown		Date: 1/11/2008		Product Rev: ERM A / ERF D	
Part #: ERM8-XXX-05.0-S-DV-L/ERF8-XXX-05.0-S-DV		Lot #:		Tech: Gary Lomax	Eng: Troy Cook
Part description: ERX8 With and Without Latches					Qty to test: 42
Test Start: 01/18/2008		Test Completed: 1/23/2008			



Mating and Unmating Testing on 10, 30, & 75 Position Assemblies with and without Latches.

PART DESCRIPTION

ERX8 Series

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to ISO 10012-1 and ANSI/NCSL 2540-1, as applicable.

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SCOPE

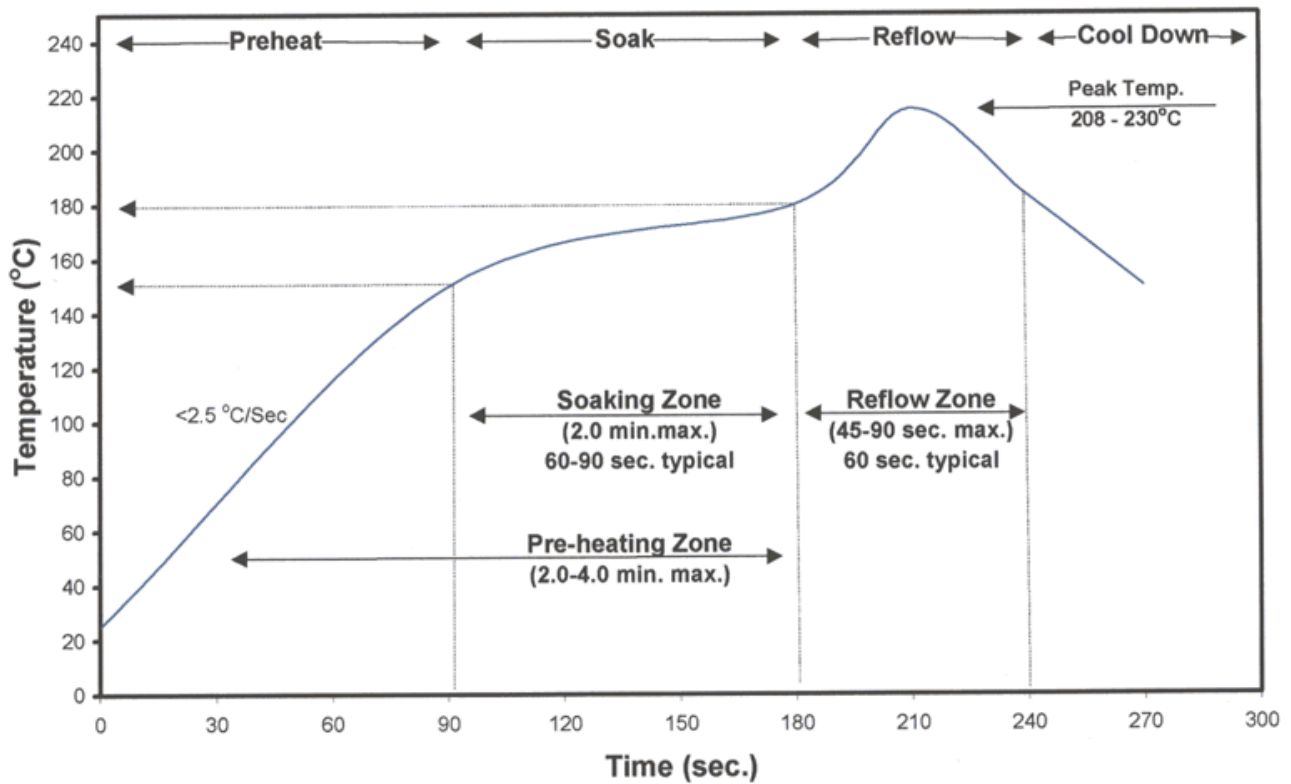
To perform the following tests: Mating and Unmating testing on 10, 30 & 75 position assemblies with and without latches. Record data at initial, 25, 50, 100 and 200 cycles on 5 assemblies minimum for each position with and without latches.

APPLICABLE DOCUMENTS

Standards: EIA Publication 364

TEST SAMPLES AND PREPARATION

- 1) All materials were manufactured in accordance with the applicable product specification.
- 2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
- 3) After soldering, the parts to be used for LLCR and DWV/IR testing were cleaned according to TLWI-0001.
- 4) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used.
- 5) The automated procedure is used with aqueous compatible soldering materials.
- 6) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
- 7) Any additional preparation will be noted in the individual test sequences.
- 8) Solder Information: Lead Free
- 9) Re-Flow Time/Temp: See accompanying profile.
- 10) Samtec Test PCBs used: PCB-100597-TST-XX
- 11) The same lot date of contacts and terminals were utilized in latch option and non latch option assemblies.

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)**Standard Solder Paste Reflow Profile
for Kester Paste Containing
Alloys: Sn63Pb37 or Sn62Pb36Ag02**

FLOWCHARTS

Mating/Unmating - Without Latch Option

10 Pos.	
TEST STEP	GROUP A1 5 Boards (Without Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

Mating/Unmating - Without Latch Option

30 Pos.	
TEST STEP	GROUP A1 5 Boards (Without Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

Mating/Unmating - Without Latch Option

75 Pos.	
TEST STEP	GROUP A1 5 Boards (Without Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

Mating/Unmating - With Latch Option

10 Pos.	
TEST STEP	GROUP A1 5 Boards (Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

Mating/Unmating - With Latch Option

30 Pos.	
TEST STEP	GROUP A1 5 Boards (Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

Mating/Unmating - With Latch Option

75 Pos.	
TEST STEP	GROUP A1 5 Boards (Latch Option)
01	Mating / Unmating
02	25 Cycles
03	Mating / Unmating
04	Data Review
05	25 Cycles
06	Mating / Unmating
07	Data Review
08	50 Cycles
09	Mating / Unmating
10	100 Cycles
11	Mating / Unmating
12	100 Cycles
13	Mating / Unmating
14	100 Cycles
15	Mating / Unmating
16	100 Cycles
17	Mating / Unmating

Mating/Un-Mating Forces = EIA-364-13

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

MATING/UNMATING:

- 1) Reference document: EIA-364-13, *Mating and Unmating Forces Test Procedure for Electrical Connectors*.
 - 2) The full insertion position was to within 0.003" to 0.004" of the plug bottoming out in the receptacle to prevent damage to the system under test.
 - 3) One of the mating parts is secured to a floating X-Y table to prevent damage during cycling.
-
- 1) The system shall utilize the TC² software in order to acquire and record the test data.
 - 2) The acquired data shall be graphed with the deflection data on the X-axis and the force data on the Y-axis.

RESULTS

Mating – Unmating Forces 10 Position (without latches)

- **Initial**
 - **Mating**
 - **Min** ----- 1.1 Lbs.
 - **Max** ----- 1.8 Lbs.
 - **Unmating**
 - **Min** ----- 0.6 Lbs.
 - **Max** ----- 1.5 Lbs.
- **After 25 Cycles**
 - **Mating**
 - **Min** ----- 1.1 Lbs.
 - **Max** ----- 1.7 Lbs.
 - **Unmating**
 - **Min** ----- 0.5 Lbs.
 - **Max** ----- 1.4 Lbs.
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- 1.0 Lbs.
 - **Max** ----- 1.8 Lbs.
 - **Unmating**
 - **Min** ----- 0.6 Lbs.
 - **Max** ----- 1.4 Lbs.
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- 1.0 Lbs.
 - **Max** ----- 1.9 Lbs.
 - **Unmating**
 - **Min** ----- 0.6 Lbs.
 - **Max** ----- 1.5 Lbs.
- **After 200 Cycles**
 - **Mating**
 - **Min** ----- 1.1 Lbs.
 - **Max** ----- 2.1 Lbs.
 - **Unmating**
 - **Min** ----- 0.7 Lbs.
 - **Max** ----- 1.6 Lbs.

Mating – Unmating Forces 10 Position (with latches)

- **Initial**
 - **Mating**
 - **Min** ----- 3.5 Lbs.
 - **Max** ----- 4.2 Lbs.
 - **Unmating**
 - **Min** ----- 7.3 Lbs.
 - **Max** ----- 10.7 Lbs.
- **After 25 Cycles**
 - **Mating**
 - **Min** ----- 3.4 Lbs.
 - **Max** ----- 4.1 Lbs.
 - **Unmating**
 - **Min** ----- 9.0 Lbs.
 - **Max** ----- 11.1 Lbs.
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- 3.3 Lbs.
 - **Max** ----- 4.1 Lbs.
 - **Unmating**
 - **Min** ----- 9.3 Lbs.
 - **Max** ----- 13.8 Lbs.
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- 3.4 Lbs.
 - **Max** ----- 4.1 Lbs.
 - **Unmating**
 - **Min** ----- 12.3 Lbs.
 - **Max** ----- 13.1 Lbs.
- **After 200 Cycles**
 - **Mating**
 - **Min** ----- 3.5 Lbs.
 - **Max** ----- 4.5 Lbs.
 - **Unmating**
 - **Min** ----- 11.1 Lbs.
 - **Max** ----- 12.5 Lbs.

Mating – Unmating Forces 30 Position (without latches)

- **Initial**
 - **Mating**
 - **Min** ----- 3.8 Lbs.
 - **Max** ----- 4.8 Lbs.
 - **Unmating**
 - **Min** ----- 1.5 Lbs.
 - **Max** ----- 2.5 Lbs.
- **After 25 Cycles**
 - **Mating**
 - **Min** ----- 3.6 Lbs.
 - **Max** ----- 4.6 Lbs.
 - **Unmating**
 - **Min** ----- 1.8 Lbs.
 - **Max** ----- 3.0 Lbs.
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- 3.7 Lbs.
 - **Max** ----- 4.5 Lbs.
 - **Unmating**
 - **Min** ----- 1.7 Lbs.
 - **Max** ----- 3.2 Lbs.
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- 3.7 Lbs.
 - **Max** ----- 4.6 Lbs.
 - **Unmating**
 - **Min** ----- 1.9 Lbs.
 - **Max** ----- 3.3 Lbs.
- **After 200 Cycles**
 - **Mating**
 - **Min** ----- 3.6 Lbs.
 - **Max** ----- 4.7 Lbs.
 - **Unmating**
 - **Min** ----- 2.2 Lbs.
 - **Max** ----- 3.5 Lbs.

Mating – Unmating Forces 30 Position (with latches)

- **Initial**
 - **Mating**
 - **Min** ----- **4.5 Lbs.**
 - **Max** ----- **5.8 Lbs.**
 - **Unmating**
 - **Min** ----- **5.6 Lbs.**
 - **Max** ----- **7.0 Lbs.**
- **After 25 Cycles**
 - **Mating**
 - **Min** ----- **4.6 Lbs.**
 - **Max** ----- **6.0 Lbs.**
 - **Unmating**
 - **Min** ----- **6.7 Lbs.**
 - **Max** ----- **8.4 Lbs.**
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- **5.5 Lbs.**
 - **Max** ----- **6.1 Lbs.**
 - **Unmating**
 - **Min** ----- **7.1 Lbs.**
 - **Max** ----- **9.5 Lbs.**
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- **5.8 Lbs.**
 - **Max** ----- **6.5 Lbs.**
 - **Unmating**
 - **Min** ----- **7.0 Lbs.**
 - **Max** ----- **10.2 Lbs.**
- **After 200 Cycles**
 - **Mating**
 - **Min** ----- **5.1 Lbs.**
 - **Max** ----- **7.2 Lbs.**
 - **Unmating**
 - **Min** ----- **7.0 Lbs.**
 - **Max** ----- **9.2 Lbs.**

Mating – Unmating Forces 75 Position (without latches)

- **Initial**
 - **Mating**
 - **Min** ----- 8.4 Lbs.
 - **Max** ----- 10.4 Lbs.
 - **Unmating**
 - **Min** ----- 3.8 Lbs.
 - **Max** ----- 4.3 Lbs.
- **After 25 Cycles**
 - **Mating**
 - **Min** ----- 8.2 Lbs.
 - **Max** ----- 10.4 Lbs.
 - **Unmating**
 - **Min** ----- 4.2 Lbs.
 - **Max** ----- 5.1 Lbs.
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- 8.3 Lbs.
 - **Max** ----- 10.3 Lbs.
 - **Unmating**
 - **Min** ----- 4.7 Lbs.
 - **Max** ----- 5.6 Lbs.
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- 8.5 Lbs.
 - **Max** ----- 10.7 Lbs.
 - **Unmating**
 - **Min** ----- 5.2 Lbs.
 - **Max** ----- 6.3 Lbs.
- **After 200 Cycles**
 - **Mating**
 - **Min** ----- 9.2 Lbs.
 - **Max** ----- 11.2 Lbs.
 - **Unmating**
 - **Min** ----- 5.5 Lbs.
 - **Max** ----- 7.3 Lbs.

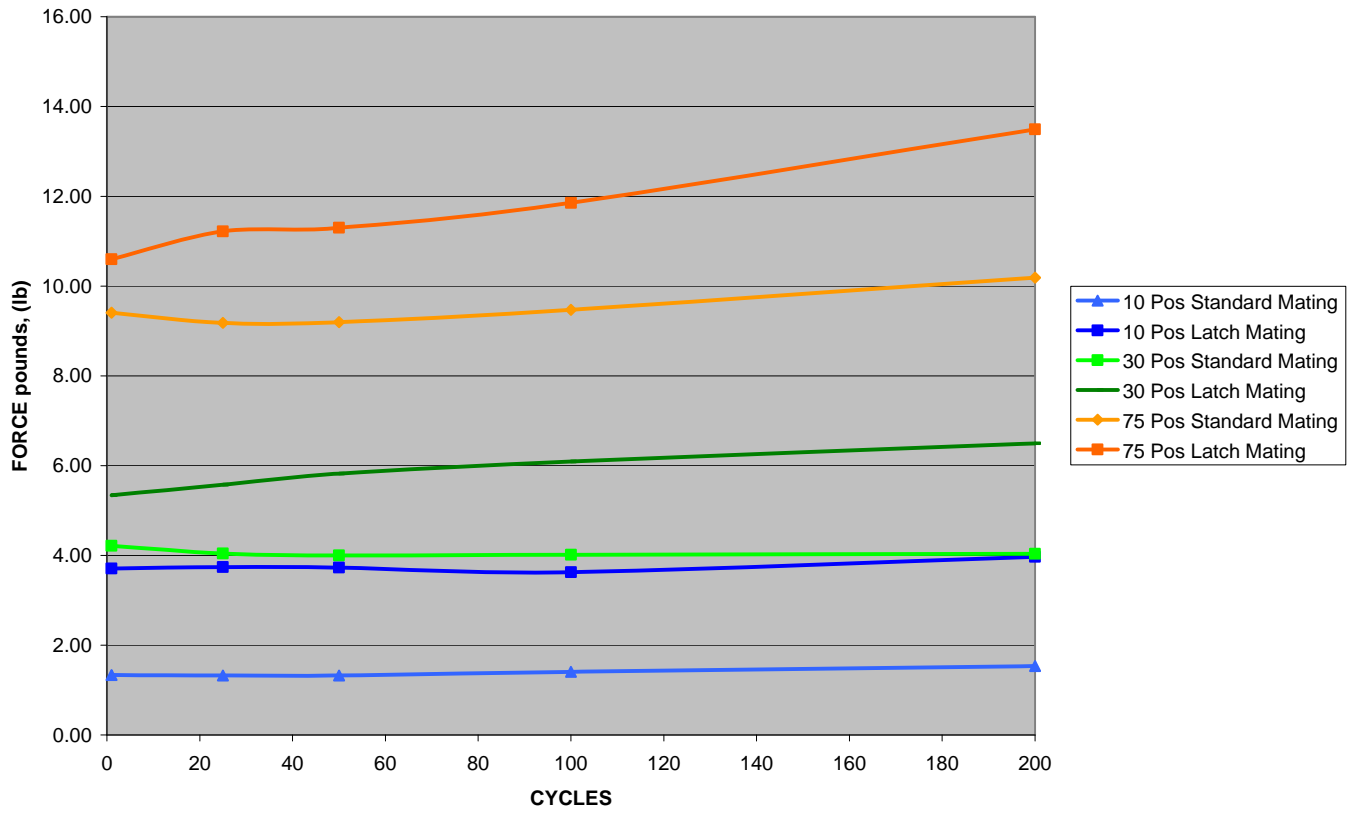
Mating – Unmating Forces 75 Position (with latches)

- **Initial**
 - **Mating**
 - **Min**----- **9.9 Lbs.**
 - **Max**----- **11.2 Lbs.**
 - **Unmating**
 - **Min**----- **9.5 Lbs.**
 - **Max**----- **14.3 Lbs.**
- **After 25 Cycles**
 - **Mating**
 - **Min**----- **10.2 Lbs.**
 - **Max**----- **12.3 Lbs.**
 - **Unmating**
 - **Min**----- **12.2 Lbs.**
 - **Max**----- **16.0 Lbs.**
- **After 50 Cycles**
 - **Mating**
 - **Min**----- **10.2 Lbs.**
 - **Max**----- **12.4 Lbs.**
 - **Unmating**
 - **Min**----- **12.2 Lbs.**
 - **Max**----- **18.0 Lbs.**
- **After 100 Cycles**
 - **Mating**
 - **Min**----- **10.8 Lbs.**
 - **Max**----- **12.9 Lbs.**
 - **Unmating**
 - **Min**----- **14.9 Lbs.**
 - **Max**----- **18.2 Lbs.**
- **After 200 Cycles**
 - **Mating**
 - **Min**----- **12.1 Lbs.**
 - **Max**----- **14.3 Lbs.**
 - **Unmating**
 - **Min**----- **13.7 Lbs.**
 - **Max**----- **17.4 Lbs.**

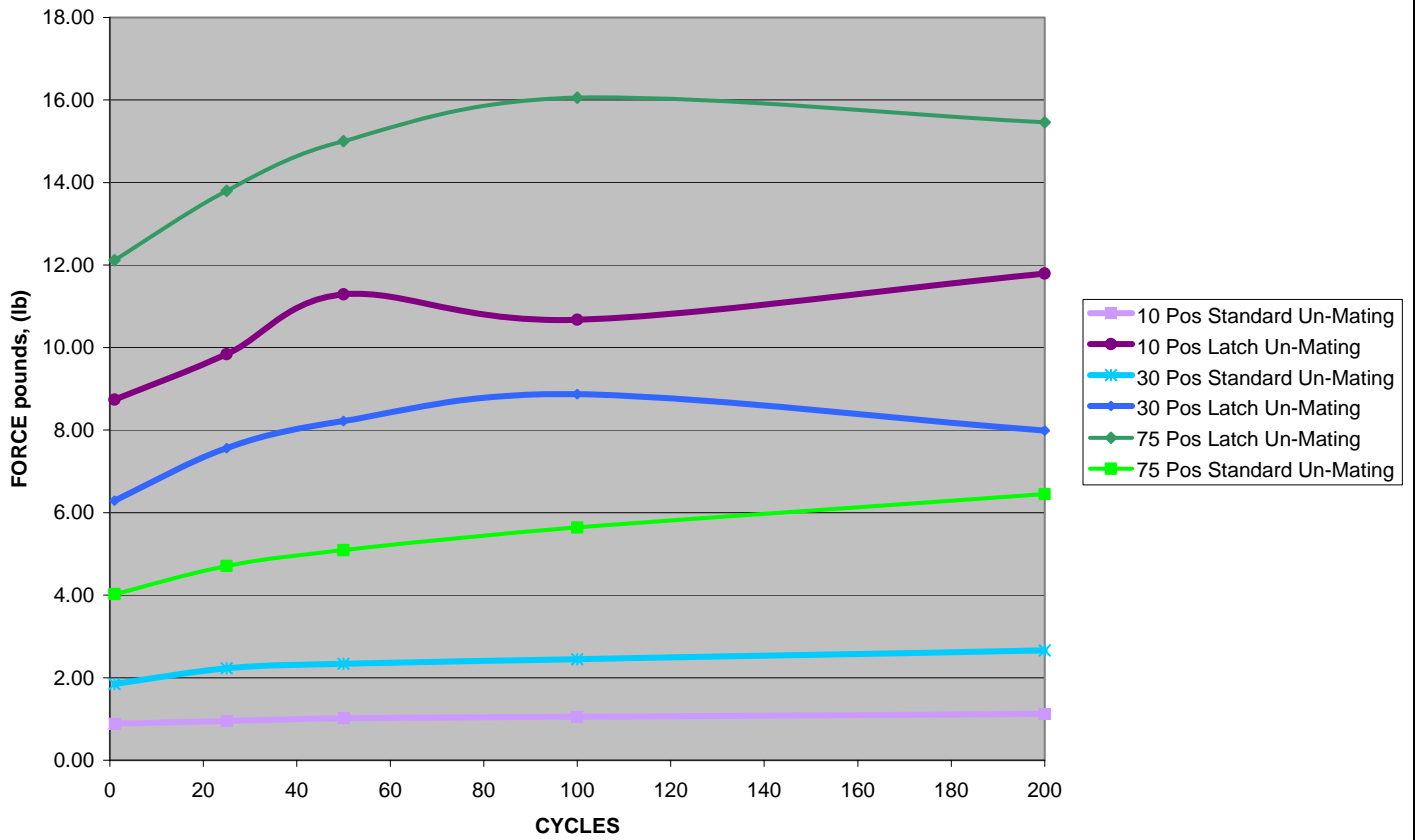
DATA SUMMARIES

MATING/UNMATING:

ERX8-DV Latch Option Mating Force Comparison



ERX8-DV Latch Un-Mating Force Comparison



LATCH OPTION 10 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
55.2	3.45	116.2	7.26	53.8	3.36	143.2	8.95
66.6	4.2	171.0	10.7	65.1	4.1	177.9	11.1
59.3	3.7	139.8	8.7	59.8	3.7	157.5	9.8
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
52.3	3.27	149.4	9.34	53.8	3.36	196.8	12.30
65.9	4.1	220.5	13.8	66.2	4.1	210.1	13.1
59.6	3.7	180.6	11.3	58.0	3.6	203.6	12.7

After 200 Cycles

Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
56.2	3.51	177.4	11.09
71.8	4.5	199.2	12.5
63.4	4.0	188.7	11.8

STANDARD 10 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
17.0	1.06	9.0	0.56	17.3	1.08	8.5	0.53
29.0	1.8	23.5	1.5	27.7	1.7	22.4	1.4
21.4	1.3	14.2	0.9	21.2	1.3	15.2	1.0
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
16.2	1.01	9.6	0.60	16.6	1.04	9.1	0.57
28.3	1.8	22.7	1.4	30.9	1.9	23.8	1.5
21.2	1.3	16.2	1.0	22.5	1.4	16.8	1.1
After 200 Cycles							
Mating		Unmating					
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)				
17.6	1.10	10.6	0.66				
33.1	2.1	25.3	1.6				
24.5	1.5	18.0	1.1				

LATCH OPTION 30 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
71.4	4.46	89.4	5.59	72.8	4.55	106.9	6.68
92.2	5.8	112.6	7.0	95.4	6.0	133.9	8.4
85.5	5.3	100.7	6.3	89.2	5.6	121.0	7.6
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
88.0	5.50	113.8	7.11	92.2	5.76	112.0	7.00
98.1	6.1	152.0	9.5	104.0	6.5	163.4	10.2
93.2	5.8	131.5	8.2	97.4	6.1	134.3	8.4

After 200 Cycles

Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
80.8	5.05	111.7	6.98
115.4	7.2	147.2	9.2
104.0	6.5	127.9	8.0

STANDARD 30 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
60.6	3.79	23.4	1.46	57.8	3.61	28.0	1.75
76.8	4.8	40.0	2.5	73.9	4.6	47.4	3.0
67.4	4.2	29.6	1.8	64.7	4.0	35.7	2.2
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
58.7	3.67	27.5	1.72	58.4	3.65	30.7	1.92
71.2	4.5	51.2	3.2	74.1	4.6	53.3	3.3
64.0	4.0	37.4	2.3	64.3	4.0	39.1	2.4
After 200 Cycles							
Mating		Unmating					
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)				
58.1	3.63	35.5	2.22				
74.6	4.7	55.7	3.5				
64.6	4.0	42.6	2.7				

LATCH OPTION 75 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
158.9	9.93	151.8	9.49	163.7	10.23	195.8	12.24
179.0	11.2	229.4	14.3	197.3	12.3	253.6	15.9
169.6	10.6	193.9	12.1	179.5	11.2	220.8	13.8
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
163.4	10.21	196.2	12.26	173.0	10.81	237.8	14.86
198.7	12.4	286.7	17.9	207.0	12.9	291.5	18.2
180.8	11.3	240.1	15.0	189.7	11.9	264.1	16.5

After 200 Cycles			
Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
192.8	12.05	218.9	13.68
228.2	14.3	277.9	17.4
215.9	13.5	247.4	15.5

Standard 75 POS

Initial				After 25 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
133.6	8.35	61.3	3.83	131.8	8.24	67.7	4.23
166.1	10.4	68.5	4.3	166.6	10.4	81.4	5.1
150.5	9.4	64.4	4.0	146.9	9.2	75.4	4.7
After 50 Cycles				After 100 Cycles			
Mating		Unmating		Mating		Unmating	
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
133.4	8.34	74.7	4.67	136.3	8.52	82.7	5.17
165.1	10.3	88.8	5.6	171.4	10.7	100.3	6.3
147.2	9.2	81.4	5.1	151.6	9.5	90.2	5.6
After 200 Cycles							
Mating		Unmating					
Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)				
147.0	9.19	88.6	5.54				
178.9	11.2	116.2	7.3				
163.1	10.2	103.2	6.5				

DATA**MATING/UNMATING: Without Latch Option****10 Pos.**

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	1.09	0.56	1.08	0.56	1.06	0.60	1.12	0.57	1.10	0.66
2	1.11	0.58	1.11	0.65	1.01	0.66	1.04	0.70	1.13	0.69
3	1.39	1.17	1.32	1.31	1.39	1.41	1.50	1.41	1.63	1.47
4	1.42	0.97	1.42	1.10	1.42	1.10	1.51	1.24	1.65	1.32
5	1.06	1.47	1.09	1.40	1.14	1.42	1.30	1.49	1.55	1.58
6	1.51	0.67	1.36	0.53	1.34	0.79	1.46	0.80	1.53	0.93
7	1.81	1.00	1.73	1.15	1.77	1.19	1.93	1.25	2.07	1.33
8	1.31	0.68	1.51	0.90	1.47	0.95	1.41	0.96	1.61	1.00

30 Pos.

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	3.92	1.46	3.61	1.86	3.73	1.85	3.77	1.94	3.71	2.22
2	4.11	1.54	3.87	1.75	3.74	1.72	3.65	1.92	3.63	2.27
3	4.20	1.65	4.07	2.15	4.05	2.21	4.03	2.16	4.10	2.36
4	3.94	1.95	3.70	2.10	3.67	2.24	3.66	2.41	3.74	2.62
5	3.79	1.86	3.68	2.30	3.79	2.34	3.92	2.41	3.88	2.79
6	4.19	1.52	4.23	1.76	4.13	1.98	4.08	2.48	4.11	2.31
7	4.80	2.30	4.57	2.96	4.43	3.16	4.63	2.92	4.48	3.26
8	4.76	2.50	4.62	2.96	4.45	3.20	4.40	3.33	4.66	3.48

75 Pos.

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	10.13	3.95	10.16	4.84	9.72	5.15	9.84	5.22	10.31	6.26
2	9.33	3.95	8.98	4.59	9.30	4.90	9.79	5.30	10.29	6.03
3	9.22	4.24	9.03	5.09	9.13	5.55	9.46	6.27	10.52	7.26
4	10.38	4.28	10.41	5.07	10.32	5.44	10.71	5.93	11.18	6.96
5	9.67	4.12	8.76	4.53	8.63	4.85	8.69	5.81	9.19	5.54
6	8.35	3.92	8.24	4.23	8.34	4.67	8.52	5.17	9.69	5.78
7	8.91	3.93	8.78	4.79	8.91	5.21	9.19	5.91	9.45	7.07
8	9.25	3.83	9.09	4.54	9.24	4.95	9.59	5.49	10.90	6.71

MATING/UNMATING: With Latch Option**10 Pos.**

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	3.45	7.26	3.89	10.31	3.62	11.49	3.50	12.92	3.83	12.45
2	3.47	7.50	3.61	8.99	3.65	9.99	3.41	12.42	3.51	12.20
3	4.16	10.10	3.77	9.84	4.12	9.34	4.14	13.13	4.49	11.09
4	3.63	10.69	3.36	11.12	3.27	13.78	3.36	12.30	4.03	11.44

30 Pos.

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	5.29	6.97	5.74	8.27	5.50	8.92	5.76	10.21	5.05	7.14
2	5.67	5.96	5.80	7.05	5.74	7.60	6.08	8.61	6.52	9.20
3	4.46	5.59	4.55	8.37	6.13	7.11	6.50	7.00	7.04	7.78
4	5.76	7.04	5.82	7.45	5.69	9.50	5.83	8.86	6.67	8.86
5	5.54	5.90	5.96	6.68	6.06	7.96	6.28	7.28	7.21	6.98

75 Pos.

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 100 Cycles		After 200 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	10.85	9.49	12.33	12.24	12.42	14.79	12.94	15.98	13.98	13.68
2	10.16	10.23	10.30	12.27	10.21	12.26	11.00	15.49	12.92	14.48
3	10.87	14.34	11.33	14.23	11.54	13.40	12.23	18.22	14.26	16.61
4	9.93	13.33	10.23	15.85	10.45	16.66	10.81	14.86	12.05	15.16
5	11.19	13.20	11.89	14.40	11.88	17.92	12.30	17.99	14.25	17.37

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** THC-03**Description:** Temperature/Humidity Chamber (SJR Room - Unit #2)**Manufacturer:** Thermotron**Model:** SE-1000-10-10**Serial #:** 37551**Accuracy:** See Manual (For SJR Testing)

... Last Cal: 09/21/2007, Next Cal: 09/21/2008

Equipment #: LC-2500N(icell)-1**Description:** 2500 N Load Cell for Dillon Quantrol**Manufacturer:** Dillon Quantrol**Model:** icell**Serial #:** 01-0132-01**Accuracy:** .10% of capacity

... Last Cal: 6/28/07, Next Cal: 6/28/08

Equipment #: LC-1000N (icell)-2**Description:** 1000 N icell load cell for Dillon Test Stand**Manufacturer:** Mecmesin (Dillon/Quantrol)**Model:** icell**Serial #:** 07-0117-06**Accuracy:** .10% of Capacity

... Last Cal: 12/05/2007, Next Cal: 12/05/2008

Equipment #: TCT-04**Description:** Dillon Quantrol TC21 25-1000 mm/min series test stand**Manufacturer:** Dillon Quantrol**Model:** TC2 I series test stand**Serial #:** 04-1041-04**Accuracy:** Speed Accuracy: +/- 5% of indicated speed; Speed Accuracy: +/- 5% of indicated speed;

... Last Cal: 05/18/2007, Next Cal: 05/18/2008

Equipment #: Null**Description:****Manufacturer:****Model:****Serial #:****Accuracy:**

... Last Cal: , Next Cal: