



Shenzen Mactech Electronics Co., Ltd.

SMT SOLUTIONS

JUKI Electronic FEEDER Evaluation Report

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- **Efficiency Comparison with MT Juki Electronic Feeder**
- **Pick up Rate Comparison with MT Juki Electronic Feeder**
- **Picture Comparison between MT Electronic and Mechanical Feeder**
- **Feeder Calibration Comparison**

1. Efficiency :

Tested in 4 machines, each analyzed with Single PCB and Double PCB Panel production. The following are comparisons between Original Mechanical Feeder and MT Electronic Feeder; efficiency can be increased by 22.47% with MT Electronic feeder in Double PCB Panelization production.

Machine Type	Pick-up Rate For 1PCB 2H	Pick-up Rate For Double PCB Panelization 2H	Double PCB Panelization efficiency of pick up (%)	Pick-up rate by Double PCB Panelization and MT Electronic Feeder	Improved Efficiency by Double PCB Panelization and MT Electronic Feeder (%)
A	39983	54580	36.51%	67840	24.29%
B	14400	31052	115.64%	39576	27.45%
C	34928	69120	97.89%	84521	22.28%
B	34800	66071	89.86%	76549	15.86%

Efficiency Improved : 22.47%

2. Pick-up Rate Error

Export data from 4 production machine. Average pick up error by MT Juki Electronic Feeder is 0.47%, while average pick up error for Original Mechanical Feeder is 3.6%. Pick-up rate error drops down by 0.3% using MT Electronic feeder.

Pick up error rate using MT Juki Electronic Feeder

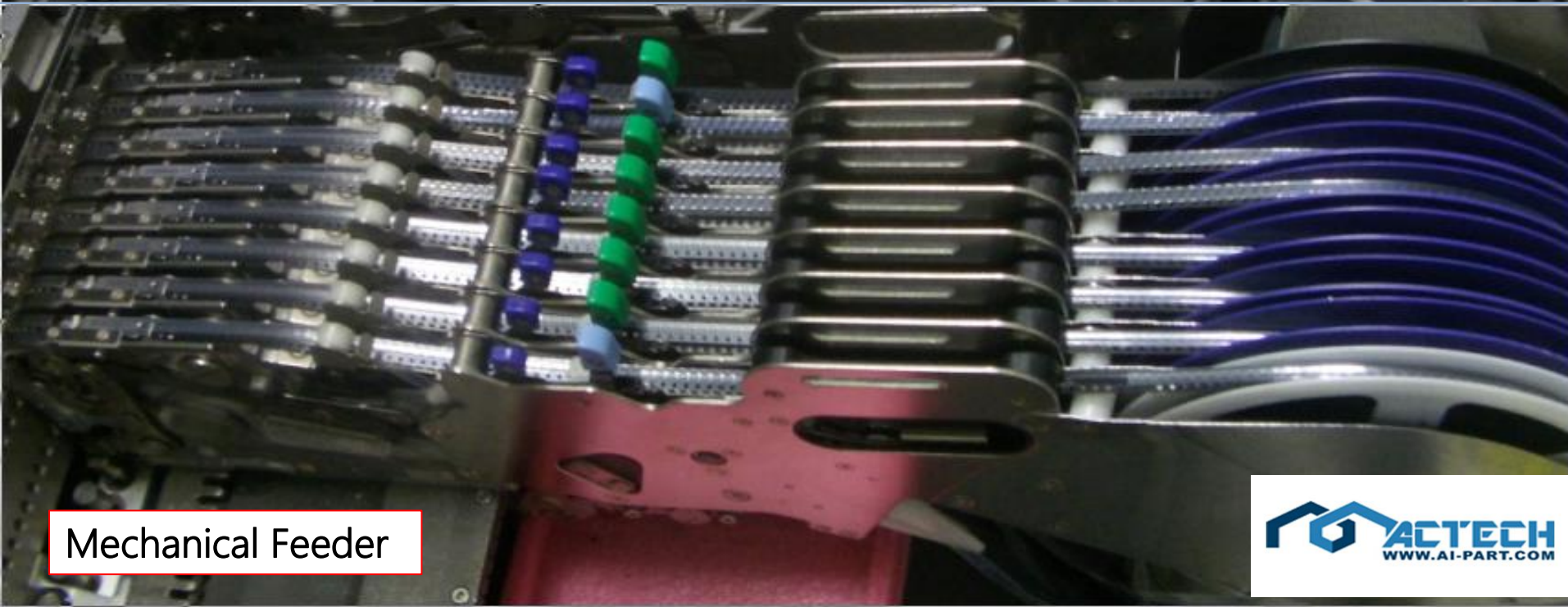
Machine	Pick-up Attempts	Pick-up Rate	Component Mounted	Pick-up error	Pick-up rate (%)	Pick-up error Rate (%)
A	627903	627705	626806	198	99.969	0.031
B	113605	113571	113406	34	99.978	0.022
C	326648	326281	325358	367	99.887	0.113
D	169483	169402	169216	81	99.95	0.023
					Average Pick-up Error Rate :	0.04725

Pick up error rate using original mechanical Feeder

Machine	Pick up Attempts	Pick Up Rate	Component Mounted	Pick up error	Pick up rate (%)	Pick up error Rate (%)
A		456974	456785	189	99.619	0.381
B		357548	357347	201	99.667	0.333
C		324876	324712	164	99.695	0.305
D		293356	293223	133	99.582	0.418
					Average Pick-up Error Rate :	0.359



Electronic Feeder



Mechanical Feeder

打开报告

创建时间 2016-8-19 10:39:30

条形码

导出到Excel

保存报告

飞达类型

3 Sigma 6 Sigma

OK

	Err X (um)	Err Y (um)
Max	20	-4
Min	-19	-70
Ave	1	-31
Range	39	66
Ca	0.00	0.00
Cp	3.90	1.87
Cpk	3.90	1.87
1	20	-62
2	14	-70
3	13	-58
4	11	-58
5	13	-57
6	7	-57
7	8	-49
8	10	-41
9	5	-38
10	3	-30
11	0	-20
12	-6	-25
13	-3	-17
14	1	-9
15	-19	-4
16	-4	-16
17	-2	-23
18	1	-16
19	3	-38
20	2	-16
21	-1	-20
22	-1	-19
23	4	-21
24	-4	-24
25	-1	-18
26	-6	-28
27	-4	-27
28	-7	-17
29	-9	-21

