

## ROI TEMPLATE

Form: 000-5-WI-0837-4-Fo-0001

Version 02



Record No (get by DMS program): 000-5-WI-0837-4-Fo-0001-4-RC-0010

Date

23-Sep-24

Project Name: Expand Auto Stripping machine new version

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Note:

The item A (plan) should not be over capacity of machine.

The item B (Working time per day) is max working time for one person

The ROI should be consider with life time application scope. It should not over 12 months.

NO	ITEM	Auto Stripper (Old ver)	Auto Stripper (New ver)
<b>LABOR</b>			
A	Plan (pcs/day)	42,000	42,000
B	Working time per day (Hr)	7.91	7.91
C	Total maintenance cyctime (minute/pc)	20	20
D	Maintenance frequency (pcs/time)	5000	55000
E	Maintenance labor rate per hour (usd/mh)	\$6.96	\$6.96
F	Working days per month	24	24
G1	Total maintenance cost (spare part, human..) per month	467.71	42.52
<b>PROCESS IMPROVEMENT</b>			
	Machine working time (hrs/day)	-	-
	Machine operation time ( sec/pc)	-	-
	Machine capacity (Parts per day)	-	-
	Yield %	-	-
I	Productivity(st/mh) = (Yield*A) ÷ (B*D)	-	-
J	Productivity improvement	-	-
<b>MATERIALS, SOLVENT, AND CONSUMABLES</b>			
K	Consumption per month	0	0
L	Waste disposal expense per month	0	0
M	Worker personal protection equipment cost	0	0
<b>QUALITY</b>			
N	Rejected parts per month	0	0
O	Rework parts per month	0	0
P	Cost to scrap per part	\$0.00	\$0.00
Q	Cost to rework per part	\$0.00	\$0.00
R	Total cost for rework/reject per month=[(A x N/1e6) x P] + [(A x O/1e6) x Q] x F	\$0.00	\$0.00
<b>SUMMARIZE</b>			
S	Total maintenance labor cost per month	\$467.71	\$42.52
T	Total material and consumable cost per month= SUM {K, L, M}	\$0.00	\$0.00
U	Labor cost per pc	\$0.0000	\$0.0000
V	Material cost (consumption, rework) per pc	\$0.0000	\$0.0000
X	Automation equipment investment(Est. using for 5 years)	\$0.00	\$2,618.00
Y	Invest cost per pc	\$0.0000	\$0.0000
Z	Total cost per pc= U + V	\$0.0000	\$0.0000
AA	Total labor cost (Designer and assembly) for the machine	\$0.00	\$100.00
	TOTAL PROCESSING COST PER MONTH	\$467.71	\$42.52
	SAVING COST PER MONTH		\$325.19
ROI	MONTHS TO BREAKEVEN		8.36
<b>MACHINE INVESTMENT COST</b>			\$2,618.00
<b>LEAD TIME FOR MAKING</b>			6 month