

PACKAGING ANALYSIS REPORT

ROI Analysis

Acme Widget Line Upgrade

PREPARED FOR

Acme Corp

DATE

19/02/2026

ANNUAL SAVING

£563,300.00

PAYBACK PERIOD

3.7 months

Executive Summary

Dear Acme Corp,

This packaging analysis has been compiled to investigate the current packing processes at **Acme Corp** and identify the key savings available through automation. The analysis compares your current operation — running at **200 packs per hour** with **6 operators per shift** at a true cost of **£0.8821 per pack** — against the proposed automated solution.

By introducing the recommended solution, you will achieve a significant reduction in your true cost per pack from **£0.8821** to **£0.3188**, while increasing packing speed by **3.0×** and reducing operator dependency by **4 people per shift**.

AT A GLANCE

£563,300.00

ANNUAL SAVING

3.7 mo

PAYBACK PERIOD

£5,458,000.00

10-YEAR VALUE

The total capital investment required is **£175,000.00**, achieving full payback within **3.7 months**. Over a 10-year period the net value of this investment is **£5,458,000.00**.

PackCorp Ltd

Confidential – PackCorp Ltd



Current Packing Method Analysis

Operations Overview

Annual volume	1,000,000 packs
Working days / year	260
Shifts per day	2
Shift hours	12 hrs
Operators per shift	6
Pack speed	200 pph
Annual labour hours	32,760

Current Costs

Labour CPP	£0.8190
Consumables CPP	£0.0631
True cost / pack	£0.8821
Annual labour cost	£819,000.00
Annual total cost	£882,100.00

Cost Per Pack — Visual Comparison

Current	£0.8821	£882,100.00/yr
Automated	£0.3188	£318,800.00/yr

You save £0.5633 on every single pack — £563,300.00 every year

Operator Headcount Reduction

Current: 6 per shift → Future: 2 per shift

-4

OPERATORS SAVED

£819,000.00

labour saving

CURRENT



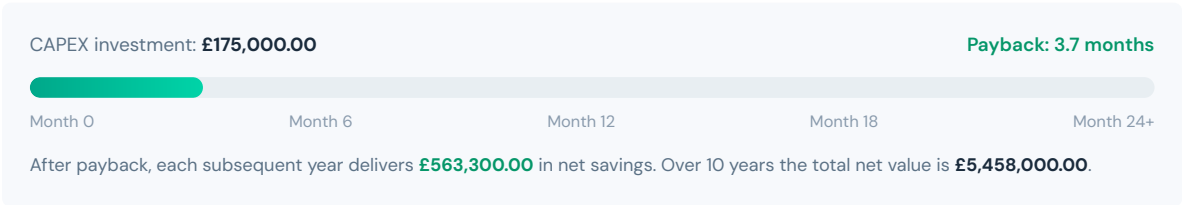
Return on Investment Analysis

£563,300.00
ANNUAL SAVING

3.7 mo
PAYBACK PERIOD

£5,458,000.00
10-YEAR VALUE

Payback Timeline



Current vs Future Comparison

Metric	Current	Future	Improvement
Pack speed (pph)	200	600	3.0× faster
True cost per pack	£0.8821	£0.3188	-63.9%
Operators per shift	6	2	-4 people
Annual total cost	£882,100.00	£318,800.00	£563,300.00 saved

PROPOSED MACHINE	
Machine	PackMaster 3000
Units (off-peak)	1
Units (peak)	1
FTE per shift	2
Total CAPEX	£175,000.00

CAPEX Item	Amount
Machines	£150,000.00
Delivery	£3,000.00
Installation	£10,000.00
Training	£5,000.00
Consumable Stock	£2,000.00
Total CAPEX	£175,000.00
Payback achieved	3.7 months

ROI



Investment Summary & Key Assumptions

Basis of Analysis

Input	Value
Annual pack volume	1,000,000
Working days per year	260
Shifts per day	2
Hours per shift	12
Blended hourly rate	£25.00
Current pack speed	200 pph
Future pack speed	600 pph
Current operators / shift	6
Future operators / shift	2

Annual Cost Comparison

Current cost

£882,100.00

Future cost

£318,800.00

Saving

£563,300.00 per year · £5,458,000.00 over 10 years

Notes & Assumptions

All figures are based on the operational inputs provided and are intended to support investment decision-making. Actual results may vary based on product mix, operator experience, maintenance schedules, and volume fluctuations.

Labour savings are calculated on the blended hourly rate of **£25.00** applied across the reduction in FTE. Consumable savings reflect the difference in per-unit material costs across the projected annual volume of **1,000,000 packs**.

Payback period is calculated on material and labour savings only and does not include potential savings from reduced error rates, improved throughput capacity, or secondary efficiency gains.

