



EFFIMAT

Storage Technology

Return on Investment Calculator

Powered by EFFIMAT Storage Technology



Introduction to the calculator

In order to help you make a qualified and fact-based decision on your investment, EFFIMAT Storage Technology offers access to a business case calculator.

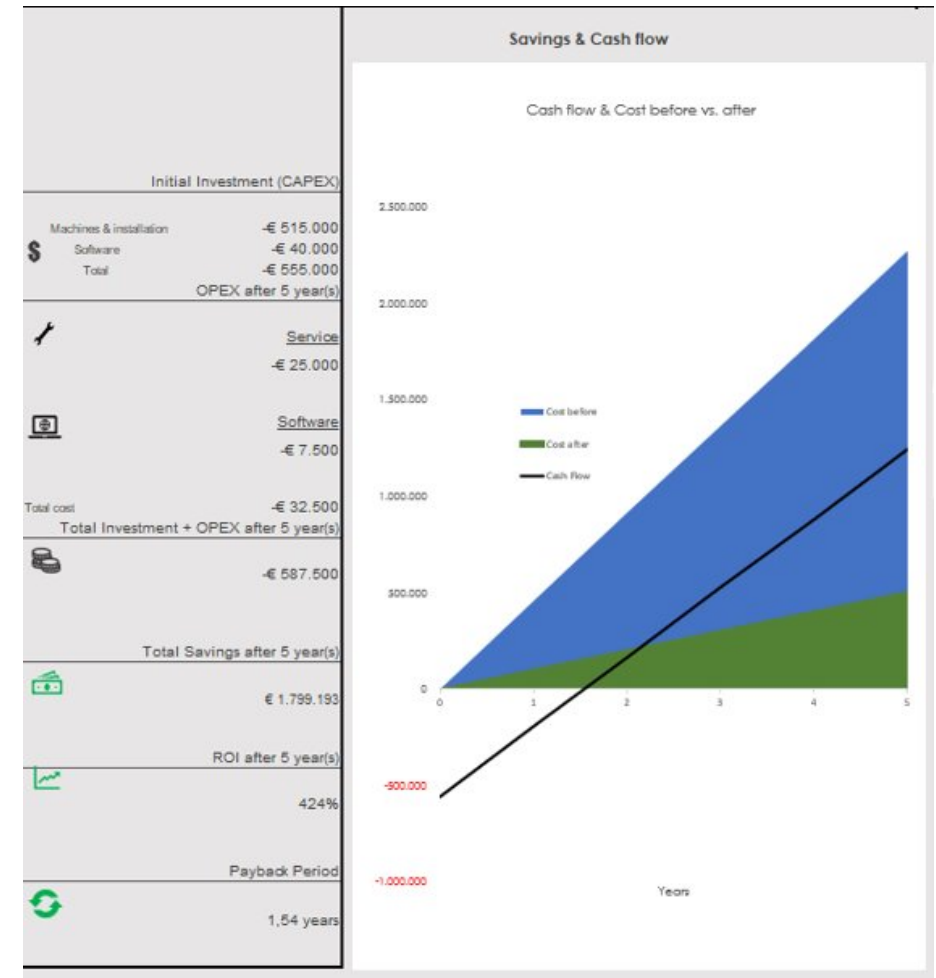
The purpose is to review data in order to match the right technology with your operation.

The calculator generates an overview of throughput & storage requirements, labor needs and ABC analytics on components. It takes your order mix into account.

Based on the data analytics, the calculator recommends a solution which mirrors your KPIs and presents the ROI calculation based on:

- Throughput speed
- Cost per pick
- Labor hour consumption
- Orders per day
- Future scenarios

This ensures the right solutions with a transparent solution performance

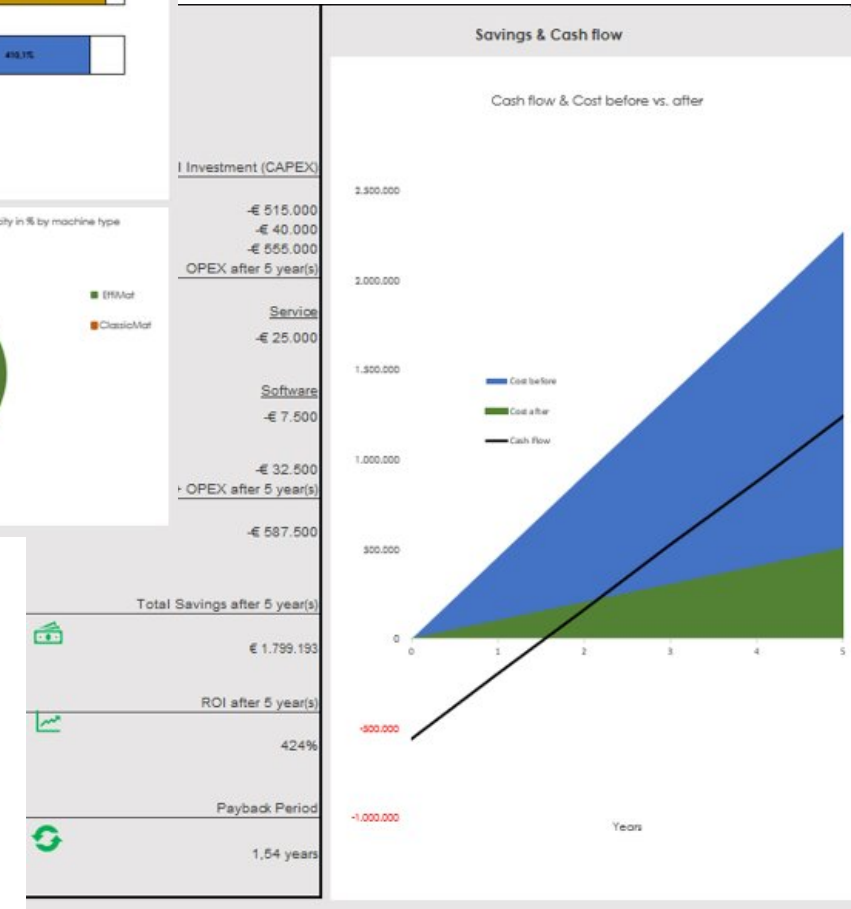
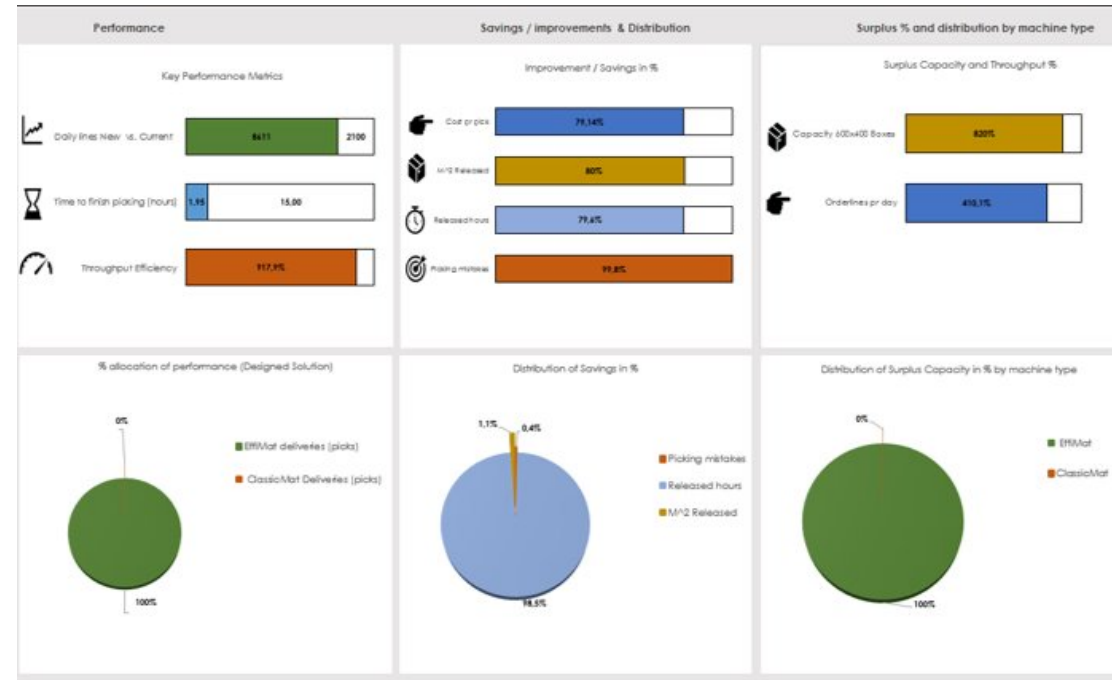


The ROI Dashboard - conclusions

Your chosen KPIs such as:

- Expected Throughput speed
- Labor consumption
- Orders per day per operator
- Surplus capacity for future growth

When using the advanced analytics, it analyze the entire process from inbound to outbound. (Including time spend on replenishment etc.)



Step one – data analysis

- ABC analysis
- Daily orders, orderliness order profile
- Labour required

Data Analytics EFFIMAT							
Data Overview EFFIMAT analytics							
Classification	SKU	Daily Orderlines	Total M³ for all stock	Tot Expressed as Boxes	Weekly M³ throughput	Box storage need for 5 day(s)	Percent of Daily orderlines qty
A	2.400,0	3.011,6	369,4	7.696,3	42,7	888,5	99%
B	4.201,0	20,4	343,1	7.148,0	0,2	0,8	1%
C	5.401,0	-	3.621,7	75.451,5	-	-	0%
Total	12.002	3.032	4.334	90.296	43	889,3	100%

ABC Box throughput divided into height ranges			
Range	40-125	126-250	251-320
Height count	125 mm	250 mm	320 mm
A	541,6	278,6	3,3
B	0,6	0,1	0,0
C	-	-	-
Sum	542,2	278,7	3,4

Product height range within ABC mix based on EFFIMAT analytics			
Range	40-125	126-250	251-320
Height count	125 mm	250 mm	320 mm
A	2.170,0	192,0	10,0
B	3.126,0	358,0	41,0
C	3.863,0	802,0	177,0
Sum	9.159,0	1.352,0	228,0

#1 Application Data input

Project info Distribution Center

Daily Orderlines 3000

avg. Daily orders 600

Annual work days 300

avg. Lines pr order 5,0

Cost pr Labor hour € 12

of people picking 4

Daily working hours 8

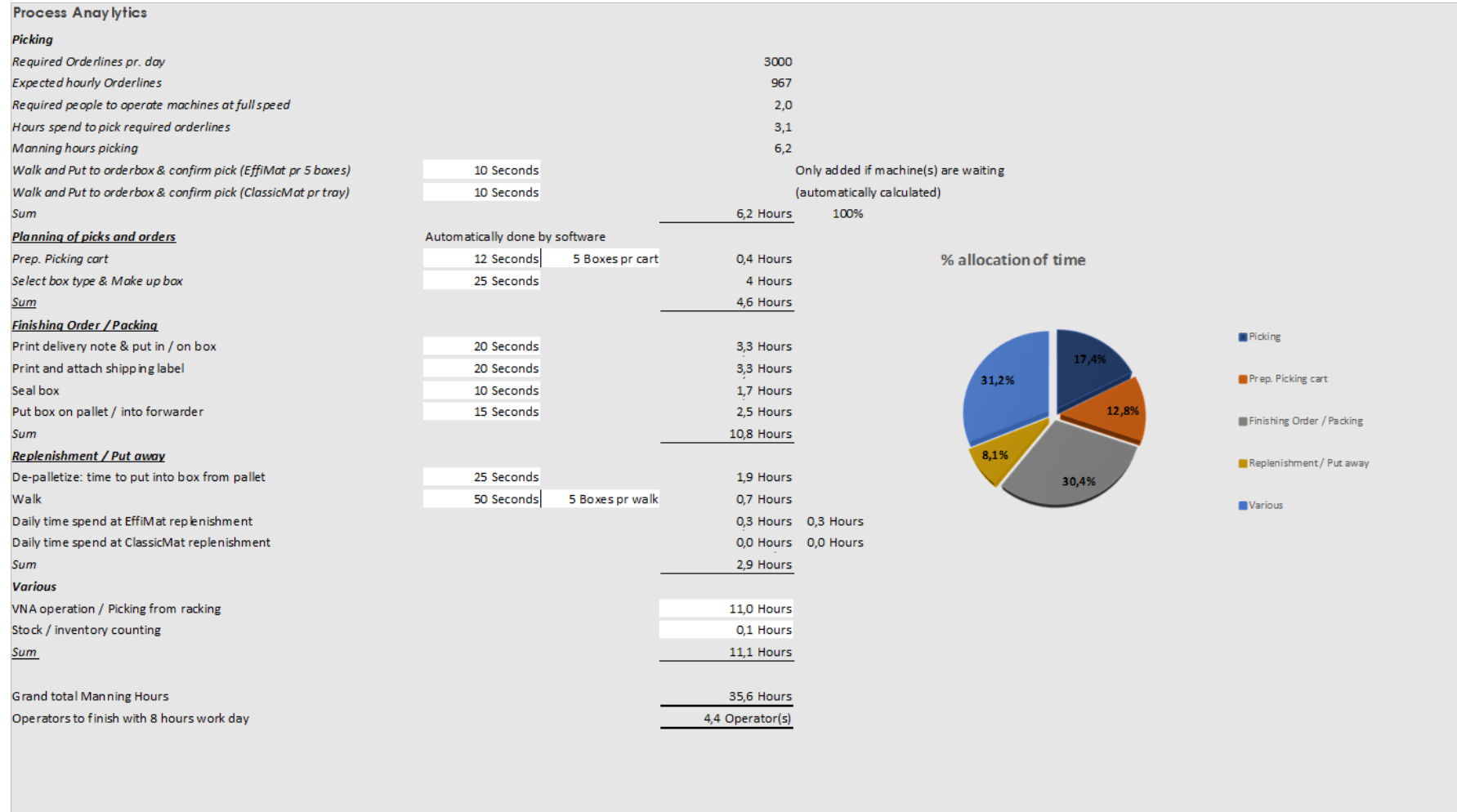
Capacity 600x400 Boxes 5365

5000

Daily Throughput Boxes 269

257

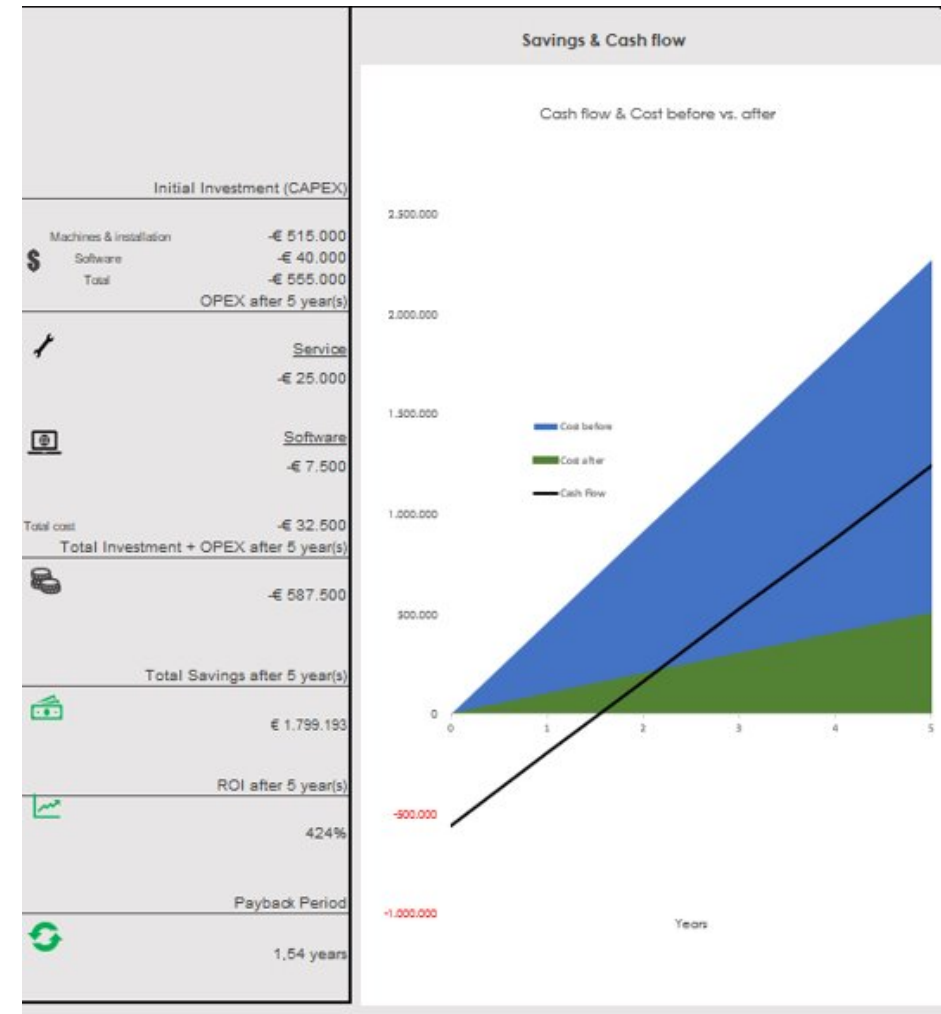
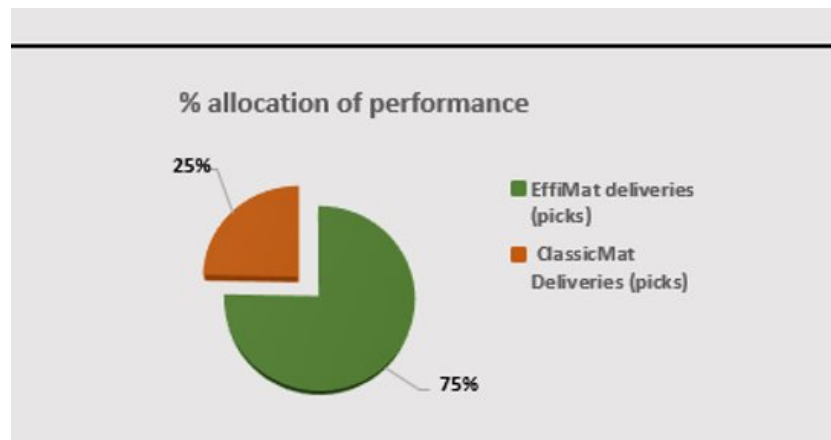
Step two – process analysis



Step three - Suggestion to solution

Solution and business case

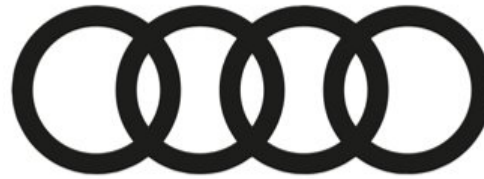
Design Solution & Performance		
	EffiMat	ClassicMat
Suggested Solution	2	2
Designed Solution	3	4
Hours to finish daily orders	3,5	
Capacity 600x400 Boxes	5160	
Picks pr day	6863	Max throughput
Picks pr hour	858	Max throughput
Picks within finish time	3000	



Some of our references

Customers like Audi, VW, Novo Nordisk, CINFA, Cofarme and GE etc. are having setups where reliability and availability of the machines are crucial. Audi installation is in the production line. No time for failure!

Billund Airport
- verden direkte



Danfoss



SANMINA®