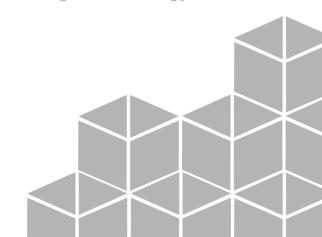






Return on Investment Calculator

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



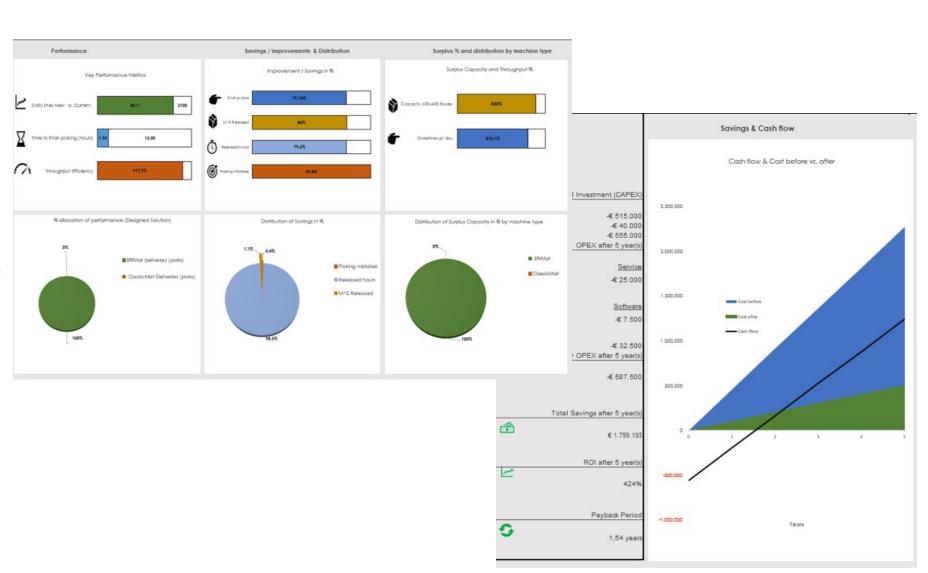


The ROI Dasboard - conclusions

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 Anaylytics EFFIMAT Data Overview EFFIMAT analytics								
Classification	SKU	Daily Orderline	Total M^3 for all stoo	k Tot Expressed as Boxes	Weekly M^3 throughput Box	x 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%
В	4.201,0	20,4	343,1	7.148,0	0,2		0,8	1%
С	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 I	height ranges			e trates	(c.1 -0 0.1			
Range	40-125	126-250	251-320	#1 Application	n Data input			9
Height count	125 mm	250 mm	320 mm	• •	<u> </u>			
A	541,6	278,6	3,3					
В	0,6	0,1	0,0		Project info	Distributio	n Center	
С	-	-	-		•			
Sum	542,2	278,7	3,4		Daily Orderlines		3000	ava Daily andons
					Daily Orderlines		3000	avg. Daily orders
Product height range within ABC								
Range	40-125	126-250	251-320		Annual work days		300	avg. Lines pr order
Height count	125 mm	250 mm	320 mm					
A	2.170,0	192,0	10,0		Cost pr Labor hour	£	12	
В	3.126,0	358,0	41,0)	Cost pr Labor Hour	•	12	
С	3.863,0	802,0	177,0					
Sum	9.159,0	1.352,0	228,0		# of people picking		4	
					Daily working hours		8	
					Daily Working Hours		٥	
				Сар	acity 600x400 Boxes		5365	
				Dai	ly Throughput Boxes		269	
				Dali	iy iiiiougiiput boxes		203	



Step two – process analysis

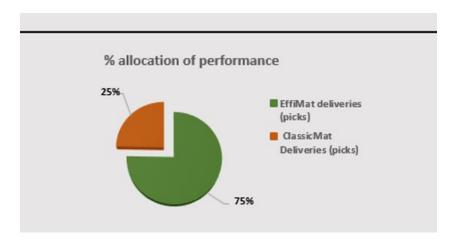
Process Anaylytics					
Picking					
Required Orderlines pr. day			3000		
Expected hourly Orderlines			967		
Required people to operate machines at full speed			2,0		
Hours spend to pick required orderlines			3,1		
Manning hours picking			6,2		
Walk and Put to orderbox & confirm pick (EffiMat pr 5 boxes)	10 Seconds		C	only added if machine(s) are waiting	
Walk and Put to orderbox & confirm pick (ClassicMat pr tray)	10 Seconds		(;	automatically calculated)	
Sum		-	6,2 Hours	100%	
Planning of picks and orders	Automatically done by	software			
Prep. Picking cart	12 Seconds	5 Boxes pr cart	0,4 Hours	% allocation of time	
Select box type & Make up box	25 Seconds		4 Hours		
<u>Sum</u>		_	4,6 Hours		
Finishing Order / Packing					
Print delivery note & put in / on box	20 Seconds		3,3 Hours		■ Picking
Print and attach shipping label	20 Seconds		3,3 Hours	17,4%	Prep. Picking cart
Seal box	10 Seconds		1,7 Hours	31,2%	riep. rickiig cart
Put box on pallet / into forwarder	15 Seconds		2,5 Hours	12,8%	Finishing Order / Packing
Sum		_	10,8 Hours		an insting order / racking
Replenishment / Put away				8,1%	Replenishment / Put away
De-palletize: time to put into box from pallet	25 Seconds		1,9 Hours	30,4%	
Walk	50 Seconds	5 Boxes pr walk	0,7 Hours		■ Various
Daily time spend at EffiMat replenishment			0,3 Hours	0,3 Hours	
Daily time spend at ClassicMat replenishment			0,0 Hours	0,0 Hours	
Sum			2,9 Hours		
Various					
VNA operation / Picking from racking			11,0 Hours		
Stock / inventory counting		0,1 Hours			
<u>Sum</u>		_	11,1 Hours		
Grand total Manning Hours			35,6 Hours		
Operators to finish with 8 hours work day			4,4 Operator(s)		

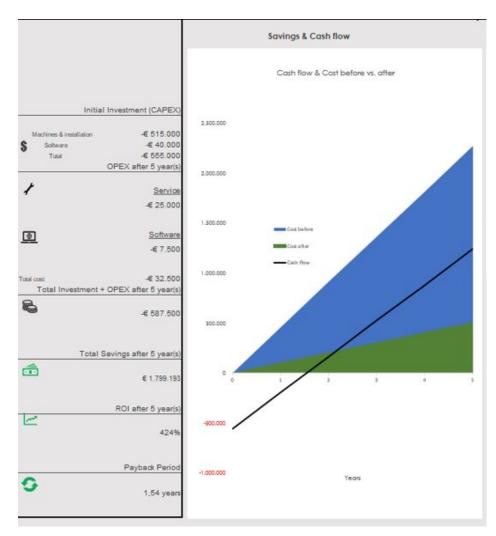


Step three - Suggestion to solution

Solution and business case

	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 858			Max throughput
Picks pr hour				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!



