



MATRIX Return on Investment

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Customer: Clever Engineering
IMC company: IMC USA
Comments: sample

Calculation

MATRIX PRICE	22,000 USD
ANNUAL SAVINGS	
Issue and Return	11,000
Receiving	4,000
Purchasing	6,000
Downtime	17,840
Consumption	20,000
Inventory	7,875
Total	66,715 USD
ROI	4 months

Variable Values

# machine tool operators	20
# active cutting tools (SKU)	400
# cutting tool suppliers	15
# machine tools	12
annual cutting tool consumption	400,000 USD
value of cutting tool inventory	150,000 USD
MATRIX Price	22,000 USD

Default Values

average # of visits to tool room per day per machine operator	2
time saved issueing or returning at item via MATRIX	3 minutes
average hourly rate for production personnel	25 USD
time saved per week per operator searching for missing tools	5 minutes
average # of times per month each active item is ordered	1
time saved per order line receiving an item via MATRIX	2 minutes
average # of PO/s per month per supplier	4
time saved opening a PO via MATRIX	5 minutes
machine tool hourly rate	50 USD
machine downtime caused by stock-outs	5 %
hours per day machine tools are operated	24 hours
reduction in machine downtime by using MATRIX	10 %
reduction in tool consumption by using MATRIX	5 %
reduction in stock levels by using MATRIX	5 %
annual stock finance cost	5 %
reduction in dead stock by using MATRIX	5 %

Remarks

Issue and Return

time saved issueing and returning items via MATRIX
time saved having tools close by the work cell for quick 24/7 access
reduced handling as tool room is not involved in the process

Receiving

time saved receiving items via MATRIX
quickly find PO data for inward goods department

quick and secure process to receive goods into stock

Purchasing

time saved using MATRIX logistics and purchasing module

usage, frequency, lead time and min/max values are calculated monthly and always up to date

PO is created automatically by schedule for all suppliers

easy to review, approve and issue PO to suppliers

Downtime

MATRIX logistics module minimizes stock-outs which cause costly machine downtime

Less time searching for missing tools as MATRIX can identify who has each item

Consumption

MATRIX monitors usage per operator to reduce waste and excess usage

better tool selection and performance benchmarking for improved tool life

Inventory

MATRIX reduces excess stock and dead stock

MATRIX ensures that the correct quantity of tools is purchased