

Your business case:

Investment & Performance Outlook



This report provides a high-level, directional overview of the potential business case for a ROCKET Shuttle System. The results are based on assumptions and are intended for initial evaluation only. All figures and conclusions are subject to validation and refinement in collaboration with a representative from the Rocket Solution Team.

Business Case at a Glance

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Achieve ROI in **1-3 Years**

Reduce your labor needs by **86.54 %**

Annual labour cost savings **2.677.000,00 €**

Reclaim **1092 M2** of your floor space

Go live in **12 Months**

Total System Investment

Delivered & Installed¹

7.704.000,00 €

In the remaining sections of the report, you will find a full analysis of your investment and return on investment (ROI) timeline, labor efficiency gains, system size, capacity, and estimated throughput.

Investment & ROI Timeline

Total System Investment	7.704.000,00 €
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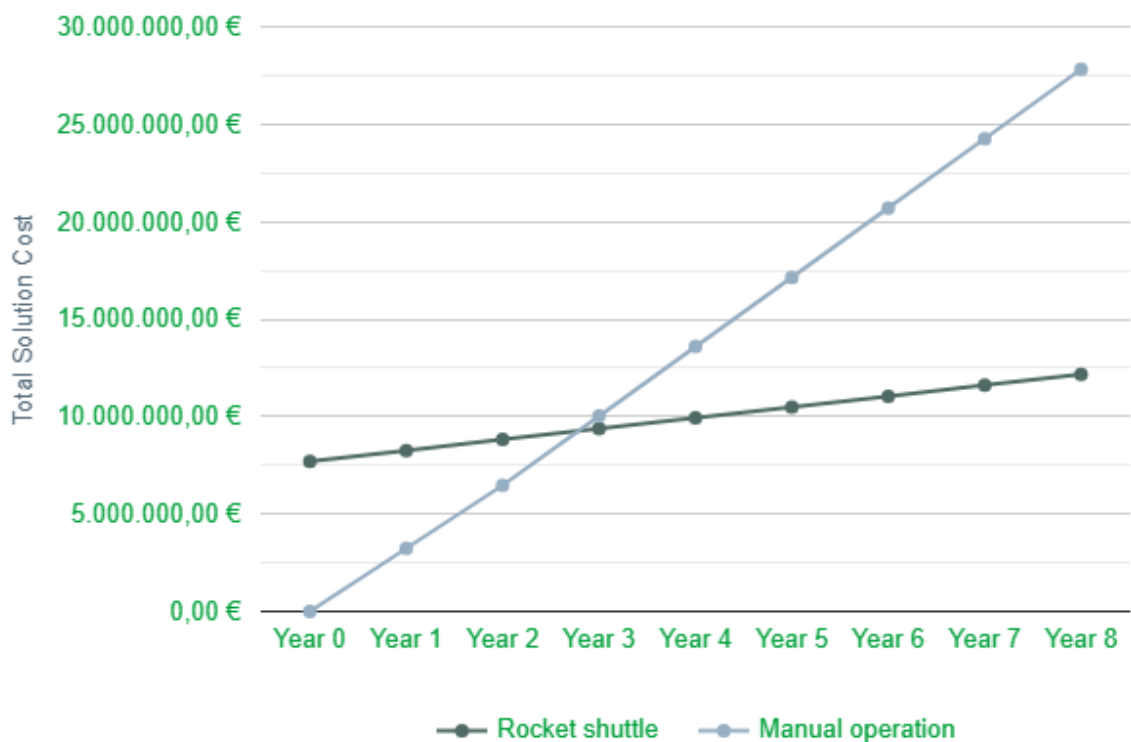
ROI Timeline	1-3 Years
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The Total System Investment includes an estimation of the material and installation of the Rocket Shuttle system, rack, robots, ports (workstations) and software. Our engineering team can typically further reduce this investment with enhanced inventory management and order grouping or batching. These estimates are directional and intended to help you evaluate potential ROI and scalability for your operation. The figures in this report are based on the operational input you provided and are calculated using general market assumptions from our decades of experience.

¹During detail design phase, the following will be further evaluated: Transportation cost, site survey, floor slab requirements, seismic considerations, server architecture, power, permits, and fire suppression.



Investment & ROI Timeline, continued



This chart illustrates the cumulative total solution cost over an eight-year period for manual operations versus the ROCKET Shuttle System. It highlight the long-term financial implications of each approach.

Manual operation costs rise sharply due to increasing labor demands, training, turnover, inefficiencies, and the potential need for additional warehouse space. As volume grows, so do headcount and associated expenses, resulting in a steep cost curve.

In contrast, the ROCKET Shuttle System requires a higher upfront investment in equipment, installation, and integration. However, ongoing costs remain low, driven by reduced labor needs, minimal energy use, and efficient space utilization. Because the system scales without proportional increases in workforce or footprint, its cost curve remains relatively flat.

This comparison helps quantify long-term value of automation and supports investment decisions by illustrating how the ROCKET Shuttle System can deliver more predictable and scalable operating costs over time.

Investment & ROI Timeline, continued

The Breakdown: Annual Cost Comparison

	Manual Operation	ROCKET SHUTTLE	Annual Cost Savings
Year 1	3.234.483,87 €	8.261.431,20 €	-5.026.947,33 €
Year 2	6.468.967,74 €	8.818.862,40 €	-2.349.894,66 €
Year 3	10.026.900,00 €	9.376.293,60 €	650.606,40 €
Year 4	13.584.832,26 €	9.933.724,80 €	3.651.107,46 €
Year 5	17.142.764,52 €	10.491.156,00 €	6.651.608,52 €
Year 6	20.700.696,77 €	11.048.587,20 €	9.652.109,57 €
Year 7	24.258.629,03 €	11.606.018,40 €	12.652.610,63 €
Year 8	27.816.561,29 €	12.163.449,60 €	15.653.111,69 €

This chart presents a year-by-year breakdown of operating costs for manual fulfillment versus the ROCKET Shuttle System, along the resulting annual cost savings. While both methods incur expenses each year, the key difference lies in how those costs behave over time.

The Shuttle's operating costs remain relatively flat due to its automation-driven efficiency and minimal reliance on labor as volumes grow. In contrast, manual operation costs increase significantly each year, driven by rising labor demands, staffing challenges, and space constraints.

The business case above focuses on managing and optimizing operational costs, but the ROCKET Shuttle System delivers far more. Imagine growing inventory capacity by 70% or more without adding facilities, or fulfilling any order within 30 minutes. These capabilities unlock new revenue streams, faster service, and differentiated customer experiences. That's why the ROCKET Shuttle System is considered a strategic enabler – not just a cost optimization tool.

Labor Efficiency Gains

Manual Operation	52	Estimated full-time staff needed for current demand
With Rocket	7	Full-time equivalents needed to run the Rocket Shuttle System
Labor Reduction	45	Reduction in full-time staff required
Labor Cost Savings	[45] x (Your local annual cost per FTE)	Use your avg. annual cost per FTE to calculate

The ROCKET Shuttle System delivers massive savings in wages, benefits, and overhead while maintaining throughput, and it scales without reliance on seasonal or hard-to-hire roles. These savings extend beyond payroll. For example, in a manual operation with 100 FTEs, 20% turnover means replacing about 20 employees each year. Because the ROCKET Shuttle System operates with a fraction of that workforce, the burden of recruiting and training drops sharply. During peak season, throughput increases come from adding technology, not headcount.

¹ Full-Time Equivalent (FTE) represents one full-time employee working a standard number of hours per week (typically 40 hours). It's a standardized way to measure labor, whether fulfilled by full-time staff or a combination of part-time roles. For example, two part-time employees working 20 hours each would equal 1 FTE.

System Size & Space Savings

System Length	31 m
System Width	24 m
System Height	15 m
Total Footprint	728 m2

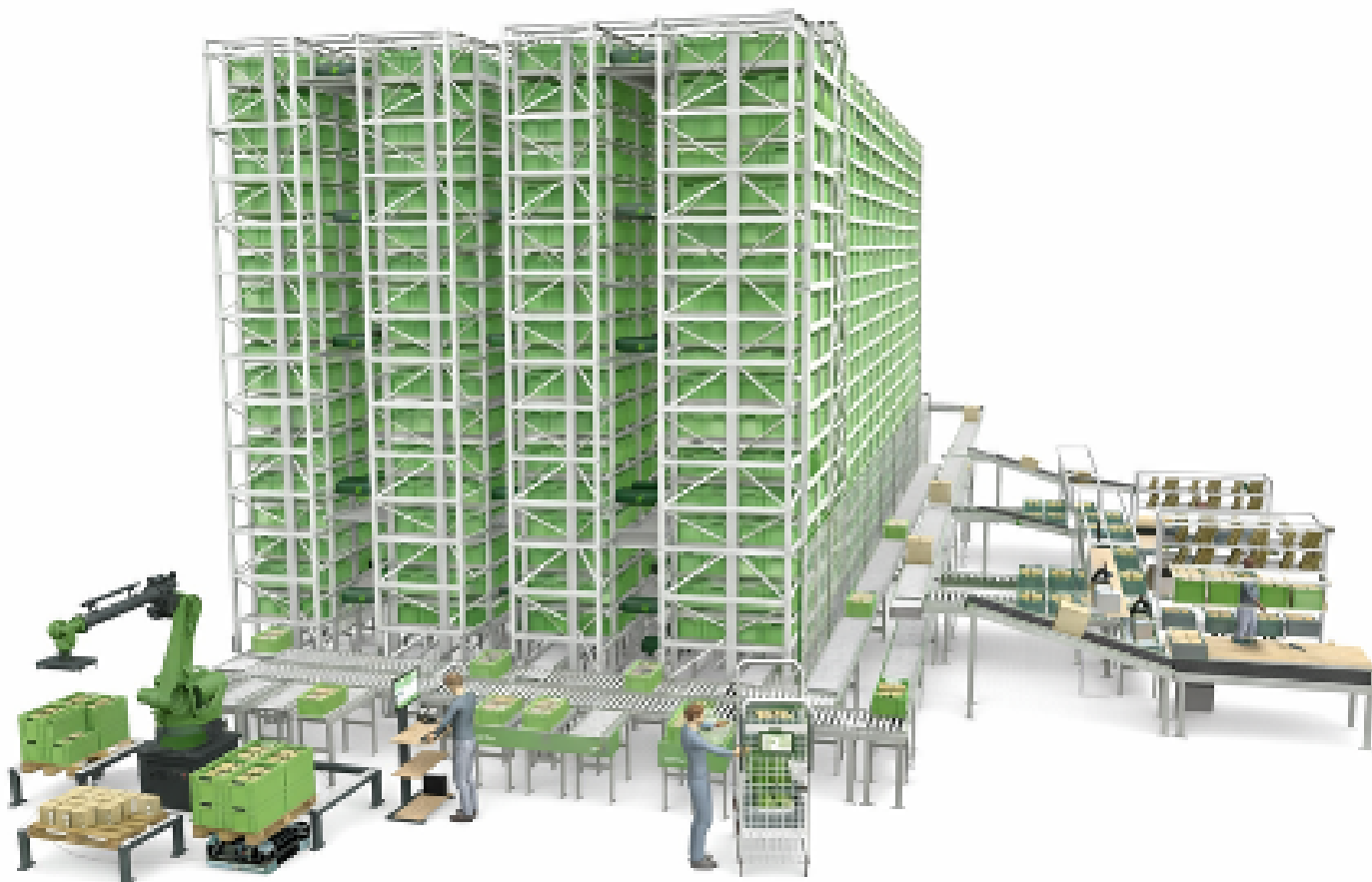
Reclaim
1092 M2
Of Floor Space

Estimated space savings are based on comparing ROCKET Shuttle System to traditional shelving and picking, factoring in aisle widths, rack spacing, and pick paths. Actual results will depend on your layout and processes. The reclaimed floor space represents space you no longer need to lease, heat, cool, insure, or maintain – avoided facility costs that add up year after year. To estimate potential savings, multiply your local cost per sqft or sqm by the reclaimed area.

System Size & Space Savings, continued

We've prepared a custom interactive 3D rendering of your project, showing the estimated number of Aisles, Shuttles and maintenance Levels outlined in this report. Click the link below to explore your rendering—view the system from any angle and see an accurate representation of its length, width, and height.

[View your customized 3D rendering¹](#)



Sample 3D Rendering
(Use the link above to view your customized rendering)

System Capacity & Throughput

ROCKET Shuttle Capacity

Number of Shuttle Robots	104
Number of Shuttle Aisles	4
ROCKET Shuttle Aisle Type	6-Deep
Number of Picking Workstations	5
Number of Goods-In Stations	2
Bin Storage Capacity	51168
SKU Storage Capacity	Up to 8x bin capacity

Each storage bin stored can be configured with up to 8 internal storage locations, allowing you to store multiple SKUs or product types within a single bin.

Throughput

Lines per hour	2160
Unit per hour	4000
Order per hour	144
Lines per Day (design rate)	17280
Maximum Lines per Day*	51840
Units per Day	32000
Order per Day	1152

*Maximum Lines per Day represents the system's maximum throughput capacity if operated continuously across all 24 hours.

System capacity & Throughput, continued

Order line per Day per FTE			
	Lines per Day	FTEs	Lines per FTE per Day
Manual Operation	17280	52	333
Rocket Shuttle	17280	7	2469

Your ROCKET Shuttle is designed to handle today's order and line volumes with far fewer resources than a manual operation.

Need to grow by 10,000 lines per day? ROCKET Shuttle can scale by simply adding additional aisles - not headcount. You gain flexibility to meet peak demand and long-term growth with linear increases in labor or space.

Workstation Options		
	Lines per Hour	Description
WS 1	500	2:4 GTP Workstation
WS 2	350	1:4 GTP Workstation
WS 3	250	1:1 GTP Workstation

Each operation has a unique order fulfillment workflow, product types, and throughput requirements. That's why we conduct a deeper analysis during the design phase to recommend the optimal port type (or combination) for your operation.

Your Inputs

How many customer orders do you ship per day?	1000
How many order lines do you ship per day?	15000
How many units are there per order line?	1
How many hours are spent on picking orders?	8
How do you measure your storage?	SKUs
Required [Bin/SKU] Capacity?	40000
Do you need different bin heights?	Yes
What is the interior ceiling height?	13
What is the available Footprint Length and Width?	80 100
What is your required max. tote weight?	Up to 35 Kg
In which country is your facility located?	Austria
In which city or region will your system be installed?	Graz Test
What Vertical Market is your business?	Pharma

Maximize Your Investment

Let's explore how to get the most value from your ROCKET Shuttle System.

We will help you:

- Accelerate ROI beyond what's shown in this report.
- Benchmark your KPIs against other technologies you may be considering.
- Identify hidden efficiency gains based on your unique workflows
- Recommend smart configurations to improve space, speed, and throughput

Let's take your system to the next level.

To get started, simply reply to the Rocket Solution expert who shared this report with you, or send us an email at Michael.Rieser@rocketsolution.de

BENEFITS of our ROCKET Solution System:

Key features of the ROCKET shuttle system

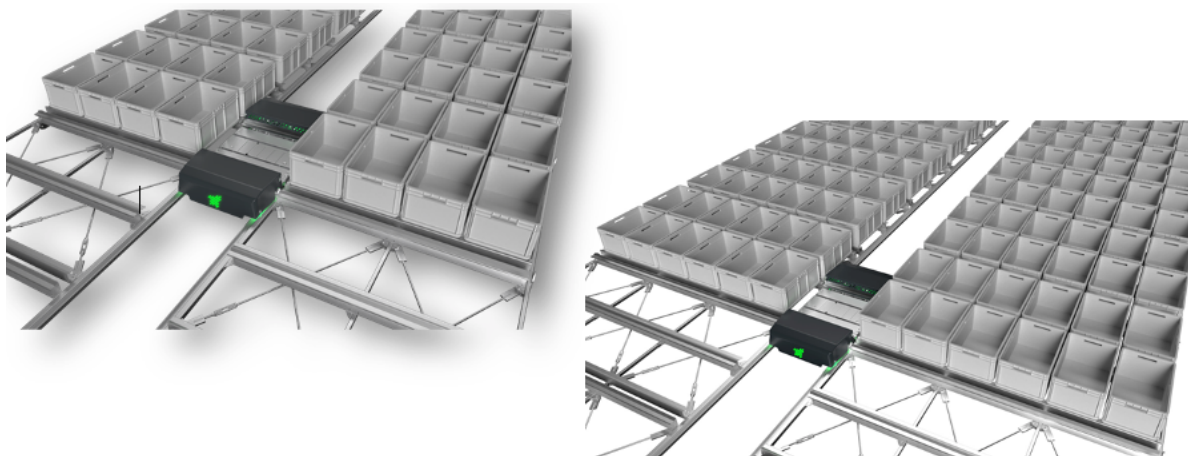
- ✓ Requires up to 30% less storage space due to exceptionally high storage density
- ✓ Offers the highest system reliability among shuttle systems
- ✓ Alternative to roaming and classic captive systems



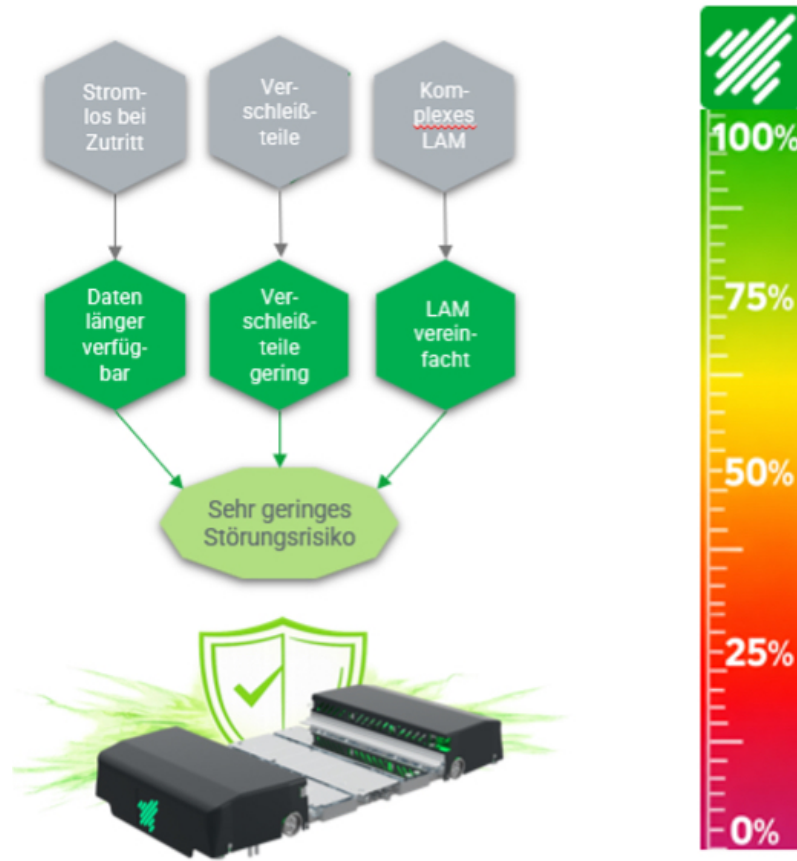
Additional advantages of the ROCKET Shuttle System

- ✓ CE-compliant complete system
- ✓ Camera installed on all shuttles + lifts
- ✓ No license costs
- ✓ Reuse of existing totes possible
- ✓ All articles & containers always accessible
- ✓ Use of standard components only
- ✓ Various connection and solution options
- ✓ Individual colour design options

- ✓ Up to 30% less space for 100% storage capacity
- ✓ Up to 30% more pitches in the maximum available space



Highest System Reliability Through Extensive Failure Protection



✓ The ROCKET Shuttle System Offers:

- ✓ Elimination and reduction of failure-prone components
- ✓ Reduced complexity through standardisation and simplification
- ✓ Increased redundancy factor for container lifts
- ✓ Less complex pre-zones thanks to flexible lift positioning
- ✓ **Availability ++**
 - Cameras for rapid fault resolution
 - VISU App