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SPE “IMVO”

European experience in optimization of investments in
low-temperature storage

MOBILE SHELVING SYSTEMS



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About the company

- Scientific and Production Enterprise "IMVO" is a designer and producer of racking systems with **experience for 20 years**.
- Our specialists have developed and implemented **more than 4,000 solutions** for warehousing and trading.
- Our mission is to create and produce products and services that provide our customers with **more efficient use of the resources** necessary for their activities.
- Solutions developed by our design department come to life in two production locations. The enterprise has a quality management system **ISO 9001:2009**.



General requirements of customers to shelving equipment:

- reliability
- cost effectiveness
- safety of storage
- safe operation of the equipment
- easy access to each storage unit
- **maximum utilization of warehouse space**
- easy maintenance and good visibility
- **minimizing the investment and operating costs**



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Which equipment meets all these qualities?



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SPE “IMVO” presents **MOBILE RACKS**





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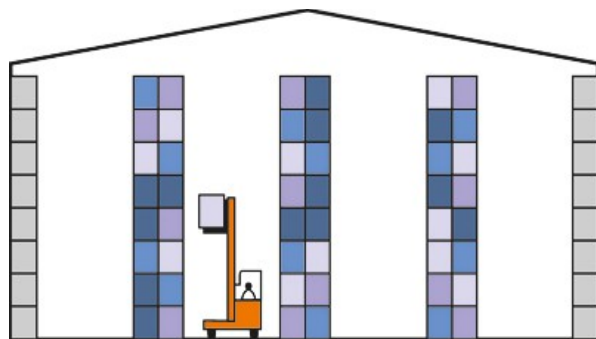
SPE “IMVO” presents **MOBILE RACKS**



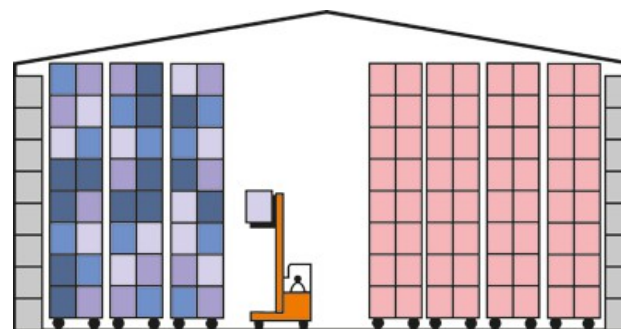


In what cases is it advisable to use mobile racks?

To increase the capacity of the existing storage

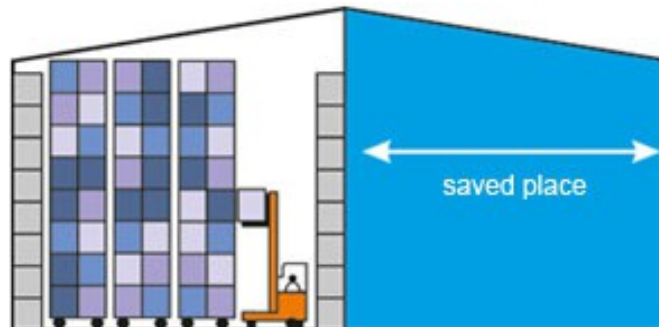


before – 672 p/p



after modernization – 1248 p/p

To optimize the investment costs in construction a warehouse





Construction of a new warehouse

reducing of investments in one pallet place

Comparison of investment costs

	Stationary racks	Mobile racks
Area + room	2,476 million €*	2,476 million €*
Technologies	92 thousand €	634 thousand €
Created volume	3500 pallet places	6750 pallet places
Total investment costs	2,568 million €	3,11 million €
Investments in one pallet place	733 €	461 €

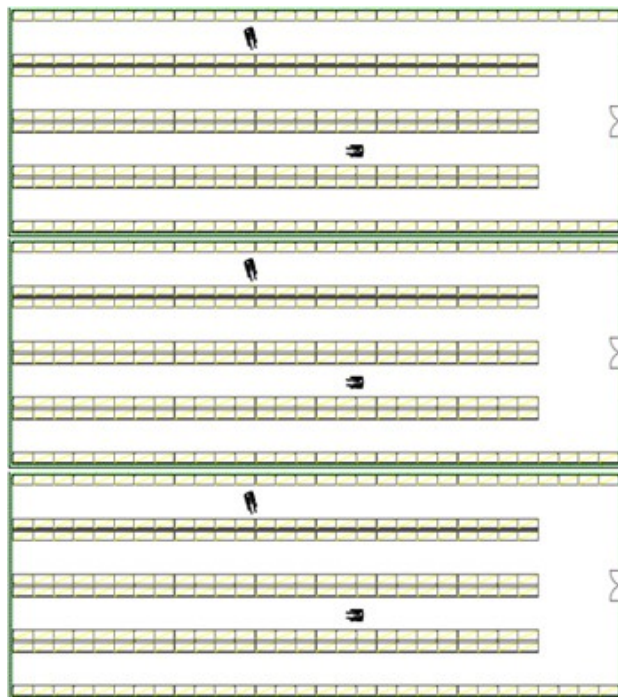
*The calculations are based on the average European data

Thus, the use of mobile racking reduced investment in one pallet places to 38% due to increased capacity of the stock to 93%.

Modernization of the existing storage

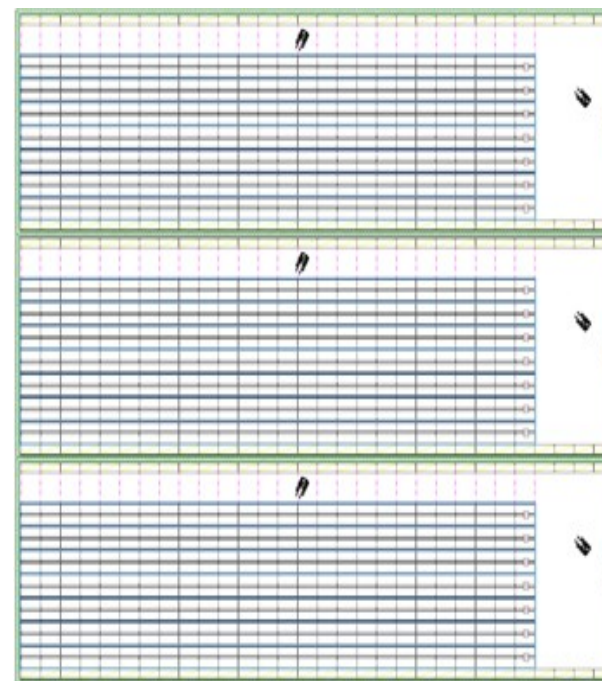
before upgrade:

3 rooms with storage capacity
2432 p/p each
= 7296 p/p



after modernization:

3 rooms with storage capacity
4736 p/p
= 14208 p/p



Installation of mobile racks has increased the capacity of the existing warehouse to 1,94 times



Comparison of investment costs

	construction of a new warehouse	modernization of the existing warehouse
investments in increasing the storage capacity by 2 times	9 208 500 €*	1 347 000 €*
conjectural power consumption for lighting and cooling of all stores	1 596 000 €/year*	779 000 €/year*
period of commissioning	~ 30 months	~ 8 месяцев
limitation of work of the existing storage	minimal	short-term low
organizational complexity for investor	considerable	low

*The calculations are based on the average European data



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At your request SPE “IMVO” experts will prepare feasibility study of installation of mobile racks on a particular area



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Evaluation of investment attractiveness of the project

Besides the obvious economic benefits, the of modernization of the existing storage allows the investor:

- **To avoid problems with obtaining permission to land lease and building**
- **To reduce operating costs, as the service doesn't require hiring of additional warehouse staff and minimizes the purchase of new equipment**
- **To avoid problems with permits and establishment of new infrastructure**
- **To reduce the cost of purchasing of racking equipment. Used stationary racks can be installed on the mobile grounds**



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Advantages of mobile racking

- **this is the cheapest and fastest way to increase the capacity of existing storage**
- **decline (or absence) of investment expenses for the purchase of land and building**
- **the release of additional space for production or storage needs**
- **energy savings (lighting and cooling) per unit of storage**
- **there is no need to hire additional warehouse staff and to buy new forklifts**
- **possibility of using of available racks for installation on mobile platforms**



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