



Physically **present**
– **future** preserved

SAFEKEEPING DONE EFFICIENTLY

PiqVault is a storage solution developed and adapted for the special requirements related to long-term preservation of data on film.

State-of-the-art storage and warehouse management systems are customized to ensure maximum data security and longevity. With a scalable level of automation, customers are guaranteed efficient logistical processes and space utilization, regardless of the size of the repository.



CUSTOMIZABLE SOLUTIONS

PiqVault includes three options for storage and retrieval of piqBoxes. Ranging from manual shelving systems to an ultra-secure robotic system with no human interaction, piqVault is adaptable according to your specific warehouse facilities and the present and future storage needs:

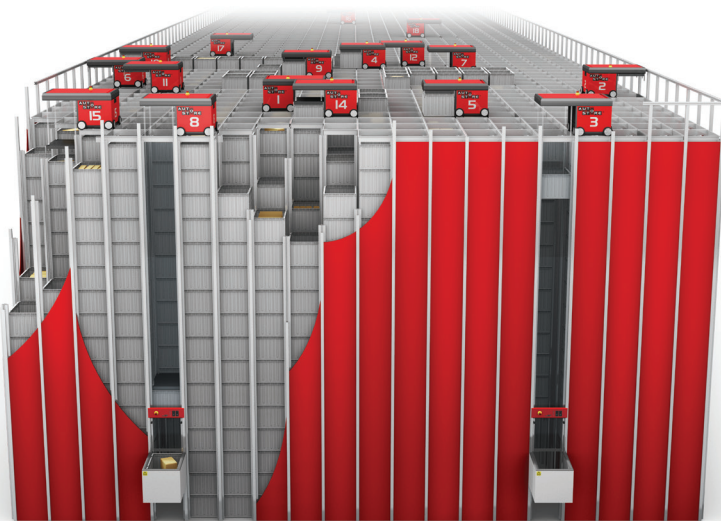
- Y PiqVault Manual (Shelving)
- Y PiqVault Semi-Automatic (Dynamic Storage Systems)
- Y PiqVault Automatic (AutoStoreš)



PiqVault Manual



PiqVault Semi-Automatic



PiqVault Automatic



	MANUAL SHELVING	SEMI-AUTOMATED DYNAMIC STORAGE SYSTEMS	AUTOMATED AUTOSTORE
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GENERAL

Space utilization of system (terabyte per m2)	LOW	MEDIUM	HIGH
Suitability to be implemented in existing or new warehouse	HIGH	HIGH	HIGH
Degree of user friendliness	HIGH	HIGH	HIGH

FILM HANDLING

Degree of user friendliness in handling (ergonomics etc.)	LOW	HIGH	HIGH
Handling efficiency (speed)	LOW	HIGH	HIGH
Handling quality (precision)	LOW	HIGH	HIGH
Degree of fit for piqlBox	MEDIUM	HIGH	HIGH

ENVIRONMENT

Secure and protected storage	LOW	HIGH	HIGH
Environmentally friendly	MEDIUM	MEDIUM	HIGH

WAREHOUSE MANAGEMENT SYSTEM (WMS)

Compatibility with wms	HIGH	HIGH	HIGH
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ACCESSIBILITY

Manual accessibility	HIGH	LOW	LOW
Accessibility in case of power failure	HIGH	MEDIUM*	MEDIUM*

COMPATIBILITY WITH OTHER TECHNOLOGIES

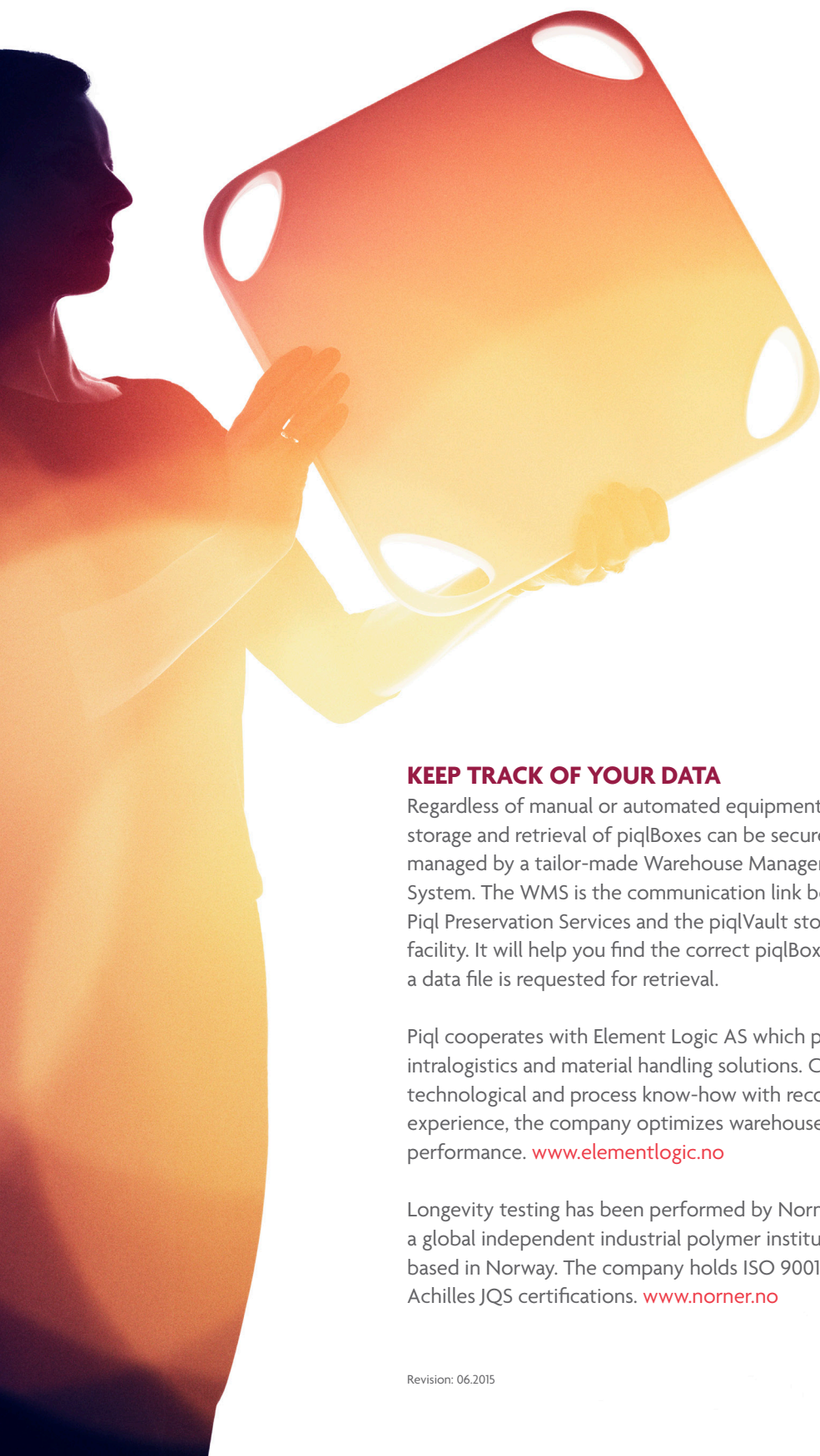
Compatibility with external automated material handling equipment	LOW	HIGH	HIGH
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LONG-TERM COST OF OWNERSHIP

Including operations cost, warehouse area, service, maintenance	HIGH	MEDIUM	LOW
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* Uninterruptible Power Supply (USP) can be added

To meet the longevity requirements of Piql Preservation Services, the relevant components in the storage solutions are reviewed to ensure there will be no detriment or negative impact on the preserved film inside the piqlBox. Consequently we have developed a special storage bin with materials carefully selected not to deteriorate the longevity of the film.



KEEP TRACK OF YOUR DATA

Regardless of manual or automated equipment, the storage and retrieval of piqlBoxes can be securely managed by a tailor-made Warehouse Management System. The WMS is the communication link between Piql Preservation Services and the piqlVault storage facility. It will help you find the correct piqlBox when a data file is requested for retrieval.

Piql cooperates with Element Logic AS which provides intralogistics and material handling solutions. Combining technological and process know-how with recognized experience, the company optimizes warehouse performance. www.elementlogic.no

Longevity testing has been performed by Norner AS, a global independent industrial polymer institute based in Norway. The company holds ISO 9001 and Achilles JQS certifications. www.norner.no

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