

Preservation and Packaging

Part 6: Preservation, Packaging and Transport of Doctors

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ABSTRACT:

This standard describes the preservation, packaging, transport and storage of doctors for paper machines

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1 Scope

This standard is valid throughout the Voith Group and to its subcontractors.

2 Area of Application

This standard applies to the preservation, packaging, transport and storage of doctors for paper machines.

This standard is used in the shipping department at Voith Paper and its subcontractors.

3 Purpose

Due to differing conditions in the Voith divisions, as well as in the respective locations worldwide, this Voith standard defines the rules that have to be observed as a minimum standard worldwide. Any additional requirements beyond the minimum standard described here that are imposed by country-specific formalities must likewise be satisfied.

This product-specific standard defines the preservation, packaging, transport and storage of doctors in order to prevent damage.

It is based on the general Voith standard for preservation and storage VN1576-1, the general packaging standard VN1577-1, and also the other normative references as stated.

Unless otherwise agreed on a product-specific and individual basis, the specifications described here are binding for the entire doctor product group.

3.1 National and international standards and regulations

The application of standards and regulations declared binding by law is mandatory. For undated references, the latest version shall apply.

4 Terms and definitions

VN	Voith Standard
GK	Goods Class
VK	Packaging category
VCI foil	Volatile Corrosion Inhibitor
KORI	Voith Design Directive
VQS	Voith Quality Specification
SVHC substances	Substances of very high concern
REACH	Regulation (EC) No. 1907/2006 (REACH Regulation) is an EU chemicals regulation that came into force on 1 June 2007. REACH stands for Registration, Evaluation, Authorization and Restriction of Chemicals

5 Responsibilities

The higher level responsibility lies with the sender of components.

6 Preservation and storage

The contractor must provide protection against corrosion suitable for the transport and storage times on a product and project-specific basis. Unless otherwise agreed, a minimum period of 1 year must be guaranteed. Corrosion protection must be executed in accordance with VN 1576-1 and VN 1577-1.

Unless otherwise specified, Goods Class GK4 for corrosion-sensitive materials must be used.

The preservation type must be selected from the preservation matrix and agreed depending on the transport route of land/air or sea.

Unless otherwise specified, storage must be carried out in accordance with VN 1576-1 with code letter B (indoor facility, unheated, dry building).

The defined processing instructions for the relevant corrosion inhibitor must be observed in accordance with VN 1576-1.

Extended storage and transport times must be agreed between contractor and purchaser. The preservation must be checked for its effectiveness.

The products used for preservation must not contain any SVHC substances of the candidate list as specified under the REACH regulation and/or national applicable regulations

7 Handling and transport

The contractor must provide protection against damage suitable for handling and storage on a product and project-specific basis. The packaging must be executed in accordance with VN 1577-1.

Unless otherwise specified, Goods Class GK4 for material and commodities must be used.

During handling procedures, the parts must be picked up only at the anchor points provided for this purpose. The points and the sling gear to be used must be provided by the design department and described on a transport drawing. The same applies to fixing points that are to be used for transporting the parts. Anchor and fixing points must be visible and accessible, despite the packaging.

To ensure safe handling, the doctors must always be fastened at the attachment holes on the mounted side plates by means of shackles, ropes or chains, in accordance with Figure 2.

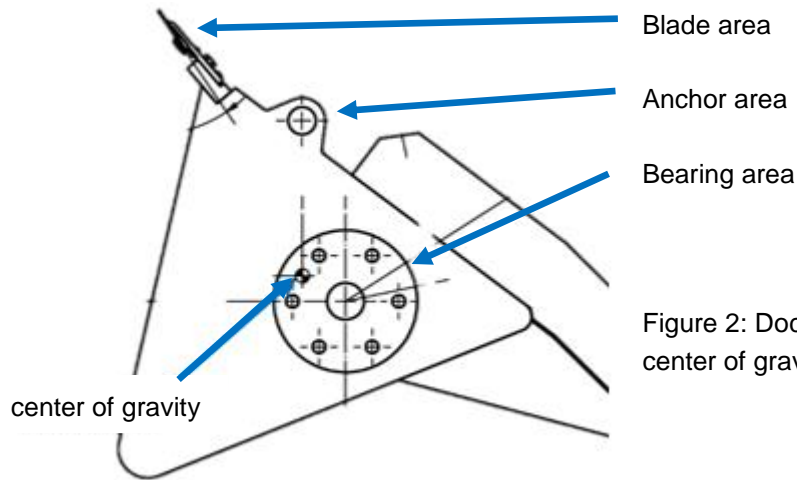


Figure 2: Doctor back with side plate, transport hole and center of gravity, as well as mounted blade

Protection against damage must be provided especially in the area around the blade and the bearing.



Figure 3: Example for protection in the blade area



Figure 4: Example for protection in the bearing area with shrink foil

Specifically sensitive areas must be specially marked in order to prevent accidental damage due to contact.



Figure 5: Example for specific marking of sensitive areas

Packaging category VK and the respective design must be selected from the packaging matrix in accordance with VN 1577-1 depending on the transport route - land/air or sea. Unless otherwise specified, at least VK 3, alternatively VK 5 with VCI foil, must be used for the land/air transport route. Unless otherwise specified, VK 5 with VCI foil must be used for the sea transport route.

For VK 5, at least a floor in accordance with VN 1577-1 must be used. The need to use a crate and/or its design in accordance with VN 1577-1 must be decided by the contractor and agreed in consultation with the purchaser.



Figure 6: Example for storage on a wooden floor



Frame for 2nd layer loading

Palette

Figure 7: Example for wood pallet with frame



Protection air outlet and bearing area

Protection of piping

Figure 8: Example of multiple doctor layers loaded onto pallet



Spare parts

Figure 9: Example of fixation with belts



Figure 10, 11: Final assembly of box according to VN 1577-1

With the selection of GK 4 and usage of VCI foil please ensure an air tight closure for a proper function of the foils corrosion inhibitor! Air tight coverage with aluminum foil should not be used without appropriate amount of drying agent inside for a sufficient corrosion protection!



Handling markings

Labeling

Figure 12: Example of packaging in wooden crate with handling marking and labeling

Unless specifically agreed, stacking of or on the crates is not permissible.

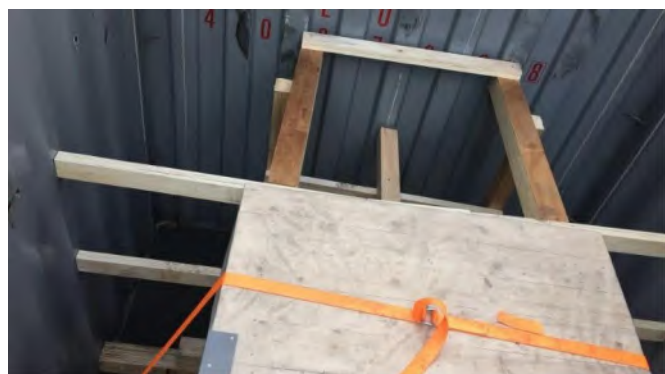


Figure 13, 14: Example of fixation crate in container



Figure 15: Example of packaging and securing multiple components on top of one another in the container without separate crate

7.1 Marking and labeling instructions

See the specifications in VN 1577-1 for the marking and labeling instructions

7.2 Handling markings

See the specifications in VN 1577-1 for the handling markings.

7.3 Means of transport and Incoterms

See the specifications in VN 1577-1 for the means of transport and Incoterms.

7.4 External packaging inspections for direct deliveries

See the specifications in VN 1577-1 for external packaging inspections for direct deliveries.

8 Unpacking

See the specifications in VN 1577-1 for the unpacking procedure.

9 General conditions

9.1 Repairs to packages

See the specifications in VN 1577-1 for the repairs to packages.

9.2 Reuse and disposal of packaging and / or packaging material

See the specifications in VN 1577-1 for the reuse and disposal of packaging and/or packaging material.

9.3 Other specific packaging requirements for components and products

Any other specific packaging requirements for components and products shall be addressed and agreed as part of the project VQS. If anything is unclear, the relevant contact (e.g. in Purchasing) at Voith must be approached.

10 Reporting/statistics

10.1 Priority

As part of the annual incident report analysis by the organizational unit, special attention must be paid to incidents involving transportation of doctors and, where necessary, additional accident prevention measures must be initiated.

10.2 Guarantee

To ensure compliance with this Voith standard and to gain other important insights, relevant must be defined as part of internal audits and suitable measures must be initiated. Insights with a global relevance are to be reported to the Voith Quality + HSE / Sustainability Board through the regular meetings and communication lines.

The specifications of VN1577-1 apply for the guarantee.

11 Miscellaneous

Each and every employee is responsible for their own safety. They are under an obligation to report loopholes and safety deficiencies and eliminate the possibility of unsafe activities. At the same time, each and every employee looks out for the safety of their colleagues.

12 Normative references

Document	Title
VN 1576-1	Preservation and Storage Part 1: General preservation and storage
VN 1577-1	Packaging standard Part 1: General packaging standard
KORI 1203	Doctor systems dimensioning and design
ISO 780	Packaging - Shipping packaging - Graphical symbols for handling and storage of packages
ISPM 15	Guidelines for regulating wood packaging material in international trade
VP-WI-01513	Transport drawing

The latest versions of the standards shall apply. Regulations can be downloaded from the Voith supplier portal in the Voith Paper supplier download area.

<http://voith.com/corp-en/about-us/supplier-ecosystem.html>

13 Contact / Release

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