robos labels

# Labels for Medical Technology

## Standards-Compliant Identification of the Highest Quality


**visions made viable**

# Reliable and Multifunctional Identification for Medical Technology Products

The medical technology industry requires labels for the identification of products and packaging, production control, and documentation purposes. These products include, for example, medical devices, instruments, dental products, and many more.
Depending on the customer's product and its application, specific requirements arise for the identification solution. These include, for example, the thermal, chemical, or mechanical resistance of a label, compliance with standards, or complete traceability.

A large proportion of our products not only provide identification and visual marking of the labelled products, but also fulfill additional functional requirements.

This is why we refer to them as multidimensional identification products. Additional functionalities may include documentation, protection, insulation, or sealing.

The key quality requirements for technical and industrial identification are durability, adhesion, compliance with standards, and documentation.

Accordingly, high-quality materials and adhesives combined with state-of-the-art production equipment are indispensable.

- **Label Durability**
  Heat, cold, chemicals, abrasion, indoor, outdoor, etc.
- **Label Adhesion**
  Difficult, rough, oily, low-surface-energy substrates, etc.
- **Standards Compliance of Labels**
  DIN EN 60601-1, FDA, UL-recognized / CSA-certified labels, seawater resistance, etc.
- **Associated Documentation Requirements**
  PPAP according to VDA or AIAG, etc.

# Our Services & Technologies

Our material portfolio comprises approximately 500 specialty materials. We provide our customers with comprehensive material information and sample materials. Upon request, these can also be individually printed and die-cut under production conditions as part of an initial sampling process.

Many of these materials already meet specific approvals for UL/CSA, automotive, and medical technology applications. In the UL/CSA sector, we currently hold 21 proprietary approvals that can be quickly applied to individual projects. If the required approvals are not available, we take care of the complete approval and documentation process.

From a technological perspective, we rely on a combination of conventional and digital technologies, as certain requirements in technical and industrial applications cannot yet be fully covered by digital processes alone. We therefore combine the best of both worlds, integrating conventional and digital technologies in an efficient and effective way.
Our conventional production capabilities include flexographic and screen printing, as well as multilayer and booklet label manufacturing. In digital printing, we use both HP Indigo ElectroInk technology and UV inkjet technology.

**We also offer:**

- Conventional die-cutting equipment and laser die-cutting technology for multidimensional functional components
- Modern slitting equipment completing our production facilities
- Camera inspection systems and a digital measuring projector for process control and documentation
- Automated data handling (Automation Engine for proofing, step-and-repeat, etc.)

**Our Subsidiary – Folit**

Folit GmbH is a wholly owned subsidiary of robos-labels and has specialized for more than 30 years in specialty materials from manufacturers such as 3M, Flexcon, Tesa, and Lintec. Folit is one of the five largest 3M distributors and converters in Europe, also offers proprietary material constructions for specialized applications, and operates a modern production facility equipped with slitting and laminating systems.

# Intelligent Label Solutions for Special Requirements

## Labels for medical technology meet a wide range of requirements:

- Temperature resistance from +300 °C to –196 °C
- UV- and weather-resistant films for up to 15 years
- Very thin (minimum 6 µm) as well as very thick (175 µm) film constructions available
- High-performance materials made of acrylic film, polyimide film, aluminum foil, and polyester
- Permanent / repositionable / removable adhesives with excellent adhesion to both high- and low-surface-energy substrates
- Customized materials available, e.g. with colored adhesives (according to Pantone or RAL colors)
- Various liner materials available, including densified kraft paper in different thicknesses, transparent film liners, double-sided silicone-coated kraft paper, and climate-stable kraft paper
- Suitable for subsequent marking by thermal transfer printing, laser engraving, and inkjet printing


Robust rating plate labels for the reliable identification of medical technology products


Securely adhering labels with warning symbol for low-temperature applications down to –196 °C

---


Serialized label with partial die-cutting for peel-off elements

**Serialized and personalized labels** can include sequential numbering, coding, or personal data. Individual product identification with encrypted codes also provides numerous opportunities for automated manufacturing and logistics throughout the entire product life cycle.
Printed Data Matrix codes contain extensive additional information that can be accessed through linked databases by scanning the 2D and 3D codes. The labels can also be subsequently marked directly at the customer's site with additional individual data.

# Our Product Portfolio for Medical Technology

## Functional Adhesive Applications

- Bonding components (adhesive frames)
- Functional labels with kiss-cut and through-cut features made from plastic films
- Precision die-cut parts for sealing, insulation, isolation, protection, and bonding
- Pressure equalization labels for pressure compensation in the event of excessive internal pressure

## Identification with Protective Functions

- Hologram labels for counterfeit protection and premium product decoration
- Tamper-evident labels for protection against manipulation
- Security seals for documenting opening and tampering
- Protective labels for documenting first opening or tampering

## Identification for Extreme Temperature Ranges

- Low-temperature labels for machinery, equipment, and automotive applications
- Cryogenic labels for extremely low temperatures
- Labels for printed circuit board identification
- High-temperature labels for machinery, equipment, and automotive applications


UL-recognized label applied to a component for the North American market

## Standards-Compliant Identification

- UL-recognized and CSA-certified labels
- Labels compliant with DIN EN 60601-1 for medical technology
- Seawater-resistant labels for the reliable identification of hazardous substances
- Labels compliant with FDA 175.105 (U.S. Food and Drug Administration)
- Labels with flammability compliance according to FMVSS 302 (Federal Motor Vehicle Safety Standards)


Hologram label with QR code for tamper protection

## Identification for Front Panels and Control Elements

- Graphic overlays and membrane switch overlays for the protection of buttons and indicator lights
- Front panels and decorative films for permanent identification

## Identification for Product Decoration

- Doming / polyurethane resin labels for product decoration
- Labels for product branding

## Identification for Subsequent Marking

- Pre-printed labels for subsequent marking with variable data
- Blank labels for subsequent marking with variable data

## Identification for Cables and Tubes

- Tube identification using wrap-around labels or flag labels
- Cable wrap labels for reliable adhesion on curved surfaces

## Identification with Variable Data

- Serialized and personalized labels for identification with variable data
- Barcode labels for identification with variable data

## Protective Films

- Paint masking labels for temporary protection during painting and against contamination and scratches during production
- Labels for sealing component openings
- Labels for protecting surfaces against scratches and abrasion

## Identification in Limited Space

- Double-sided readable labels for application on transparent surfaces
- Booklet labels and leaflet labels for extensive information in limited space
- Multi-layer labels for large amounts of information in limited space and for concealed information

## Identification and Traceability

- Vial and tube labels for small diameters and radii
- Labels with fold-over laminate for subsequent handwritten marking or thermal transfer printing
- Labels for documenting information and processes
- Labels for small load carriers (KLT)
- Rating plate labels for reliable identification


Seawater-resistant labels certified according to BS 5609 Sections II and III

## Identification for Demanding Surfaces and Environments

- Laser labels with maximum durability for industrial applications
- Labels for oily, dirty, and dusty surfaces
- Chemical- and solvent-resistant labels for demanding surfaces
- Outdoor labels with maximum durability for exterior applications
- Labels for rough surfaces
- Labels for low-surface-energy substrates

Vial and tube labels for small diameters and radii provide reliable adhesion

## Identification with Warning and Consumer Information

- Hang tags for warning and consumer information
- Warning labels for technical industry and medical technology
- Tactile labels with raised information such as Braille and warning symbols


Tamper-evident labels with warning information for curved surfaces

## Medical Technology Labels with UL Recognition for the North American Market

- Robos-labels has been a manufacturer of UL-recognized labels since 1993 and is authorized to print all types of UL certification marks on labels (see the Authorized Label Supplier Program PGAA).
- UL is a globally recognized safety organization and certification system whose requirements and testing are focused on product safety and integrity.

# Certified Label Solutions

As a manufacturer, robos-labels offers a broad portfolio of pre-approved and certified label solutions. If additional customer-specific approvals are required, we can also manage the complete testing and certification process upon request.

In addition, we support PPF sampling (Production Process and Product Approval) in accordance with the requirements of the German Association of the Automotive Industry (VDA), as well as the American equivalent, PPAP (Production Part Approval Process) according to AIAG (Automotive Industry Action Group) requirements.

QR code labels compliant with DIN EN 60601-1 for medical technology


Booklet labels for instructions for use and product information

Labels compliant with FDA 21 CFR 175.105 (U.S. Food-Drug Administration)

## The following standards and regulations can already be met using our material portfolio:

- UL969A:2020 Standard for Marking and Labeling Systems – Flag Labels, Flag Tags, Wrap-Around-Labels and Related Products
- UL817 Appliance Wiring Material and Power Supply Cords
- UL2238 Cable Assemblies and Fittings for Industrial Control and Signal Distribution
- UL94 Flammability of plastic materials used in devices (UL VTM-0 highest classification)
- FMVSS 302 Flammability of materials (burning behavior / burn rate)
- FORD WSS-M99P41-A72
- MS-13445 (FCA – Fiat Chrysler Automobiles)
- TL 52038 (Volkswagen Standard)
- GMW14573 (General Motors)
- TM-0030T-Y (Tesla)
- GS 97058 (BMW)
- MS 373-12 (Hyundai)
- DBL 8230 (Mercedes-Benz)
- TSM7508G (Toyota)
- Compliance with REACH, RoHS und IMDS
- ADR 2021 Regulations concerning the International Carriage of Dangerous Goods by Road, Rail, and Inland Waterways
- CLP-Regulation (Classification, Labelling and Packaging, EC No. 1272/2008)
- BS 5609 Resistance of labels to prolonged exposure to seawater
- DIN EN ISO 11683:1997-11 Packaging – Tactile Warnings of Danger – Requirements
- FDA 21 CFR 175.105 Indirect Food Additives: Adhesives and Components of Coatings

The Managing Partners Daniel Sugg and Simon Reuter


Our facility on Im Moldengraben combines administration and production

# You Are in Good Hands with robos-labels

Robos-labels employs more than 75 people. Our headquarters are located near Stuttgart, where administration and production were brought together in a modern new facility in early 2018.

Founded in 1960, robos-labels now operates more than 20 modern printing and finishing machines. In addition to conventional printing technologies such as screen and flexographic printing, we primarily utilize state-of-the-art digital printing technologies. We also operate a fully automated vision inspection system, a booklet production line, and a laser die-cutting system.

Over the past several years, robos-labels has specialized in the production of high-performance labels for the technical and chemical industries, as well as for the mobility and medical technology sectors, supplying customers in more than 30 countries.

## Key Advantages at a Glance

**Specialized in UL-Recognized Labels for the North American Market**

- Since 1993, robos-labels has been a manufacturer of UL-recognized labels and is authorized to print all types of UL certification marks on labels (see the Authorized Label Supplier Program – PGAA).
- UL is a globally recognized safety organization and certification system whose requirements and testing are focused on product safety and integrity.
- Our labels comply with the requirements of UL 969 Standard for Safety for Marking and Labeling Systems as well as CSA C22.2.
- UL-recognized labels are available with variable data printing and a wide color gamut.
- Robos-labels holds 22 proprietary UL recognitions for indoor and outdoor applications, helping customers avoid time-consuming and costly new approval procedures.

**Your Experienced Partner for Customized Identification Solutions with Special Requirements**

- 3M Certified Converter
- Listed in the International Material Data System (IMDS)
- Robos-labels offers EDI connectivity
- Certified to ISO 9001:2015 since 1996 and ISO 14001:2015 since 2009
- Robos-labels is an approved A-supplier to numerous leading industrial companies
- We provide customized solutions tailored to your requirements.
- Delivery available in roll or sheet format, as well as with application aids such as finger-lift tabs or back-side slitting.
  Our sample service will be pleased to provide you with complimentary label and material samples without obligation.
  **E-mail: request@robos-labels.com**

Managementsystem DQS ISO 9001 ISO 14001

3M
Certified Converter
Labeling products

robos labels

visions made viable

**Robos GmbH & Co. KG**
Im Moldengraben 47
D-70806 Kornwestheim
Telefon +49 (0)7154 8225-0
www.robos-labels.com

ProspektMedizintechnik.dt_17.08.2026