

UHF LAUNDRYCHIP™ ON LABEL

All-in-one tag and label solution for smart textiles!

FT50X LBL



Product info

- Laundry Chip embedded directly on a woven textile label
- Delivered in rolls and compatible with leading automatic textile manufacturing brands and existing label feeders.
- Provides an efficient solution to insert a Laundry Chip and a label in a unique manufacturing step.
- Label can be customized according to customer's logo and need.
- Exists in 2 versions, tag inside or outside the seam to fit any seam dimension
- Features the industry proven Laundry Chip strength: guaranteed for 200 washing cycles with water extractors up to 60 bars.
- State-of-the-art reading performance: ideal for flat linen ultra-high-density bulk reading.
- ISO 18000-6C compliant
- Certifications: MR conditional and Oeko-Tex® certified.

Product Description

FT50X LBL combines a textile label with a UHF Laundry Chip making it the ideal solution for high throughput automated textile manufacturing lines. The FT50X LBL is delivered in rolls which can be loaded in existing label feeders allowing to insert the tag and the label in a unique step. For manual production lines, the FT50X LBL still provides significant advantages by reducing a 2 steps insertion process into a unique one. While we suggest that the LaundryChip be placed inside the hem (as on the above picture), a variant of the FT50X LBL allows to place the transponder outside the hem, making it suitable for very narrow hems.

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Technical data

Tag Dimensions (L x W x H)	60 x ** x 1.8 mm (** length depends on label design)
Tag Weight (approx.)	0.80 g
Label Material	100% polyester
Warranty	First of 200 wash cycles or 100 autoclave cycles or 3 years from ship date
Tag Memory	96 bits EPC
Data retention	min 50 years
Read Distance	Up to 6 meters (up to 19 feet)
Operating Power	Passive, operates through antenna's RF field
Operating Frequency	865 - 928 MHz
Typical washing cycle	Washing: +90°C (194°F), 15 minutes Drying: +180°C (356°F), 3 minutes Ironer: +200°C (392°F), 12 seconds Water Extractor: 60 bar, 80 seconds
Autoclave	Air removal: +100°C (+212°F), 5 minutes, 0.1 bar Sterilizing: +134°C (+273°F), 10 minutes, 3.25 bar Drying: +45°C (+113°F), 15 minutes, 0.2 bar
Patching instructions	+204°C (399°F), 12 seconds, 0.5 kg/cm2
Storage Temperature	-40°C to +85°C (-40°F to +185°F) in a dry environment protected from sunlight
Chemical Resistance	All Chemicals common to the washing process
Compliance	ISO/IEC 18000-6C EPC Class 1 Gen 2
Certifications	OEKO-TEX® Standard 100 product class II, MR Conditional (I.5T - 3T)
Each transponder produced by Datamars is encoded with a unique 96 bits EPC following GS1 standards. The transponder code cannot be altered nor re-programmed. For customers willing to encode their own EPC, Datamars provides custom coding services or a re-programmable transponder version named UL.	