

# BARCODE LABEL LASER MARKER

*Indelible Bar Code Label*

*Laser Bar Code Label Printer*

MODEL : TTE-72FR



 **TOOTECH**  
www.tootech.co.kr

**TOOTECH**  
Barcode & More  
Solution Frontier

The partnership with TOOTECH will be the stepping stone to your business success.

TOOTECH is a young enterprise all of whose staffs are making every effort to help customer to upgrade their competitive power.

Through ceaseless R&D activities to provide the best solutions to the customers in the rapidly-changing manufacturing and distributing chains, TOOTECH has successfully developed the bar code labels and bar code label printers for indelible bar codes for the first time in the world. We promise that our young passion will be cherished on as we develop ourselves to be an enterprise trusted and loved by customers.

## HISTORY



2003 ~

**Established TOOTECH**

2004

Applied for a patent for indelible bar code label

2005

Developed laser bar code label printer

2006

Get a patent for indelible bar code label

2007

Developed laser seal label

indelible and destroyed when separated

2008

Laser bar code label delivered to S-Energy (solar light)

2009

Applied for a patent for the seal label applicable on paper sheets

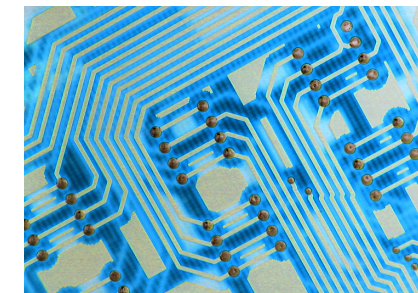
Delivered to Samsung Electronics (laser bar code label)

Exported laser bar code label and seal label (Japan, China)

2010 ~

**Registered as a venture enterprise**

Laser bar code label obtained UL Certificate

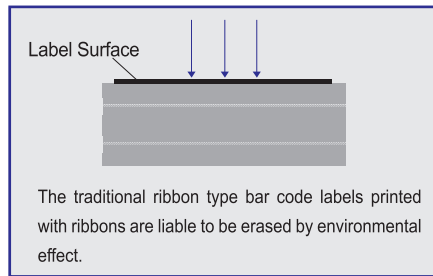


Contact us for an innovative solution for your problems in logistics, distribution, and management of materials and products.

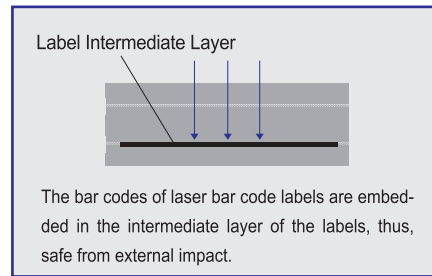
The indelible laser bar code label is an exclusive product of TOOTECH - no competitor at all. Currently, Samsung Electronics is applying TOOTECH labels because the conventional bar code labels are liable to be erased. When fully recognized, the labels will be adopted by so many companies as to restructure the future bar code market.

**PRODUCT FEATURE**

**Conventional Ribbon Type Label**



**Indelible Laser Label**



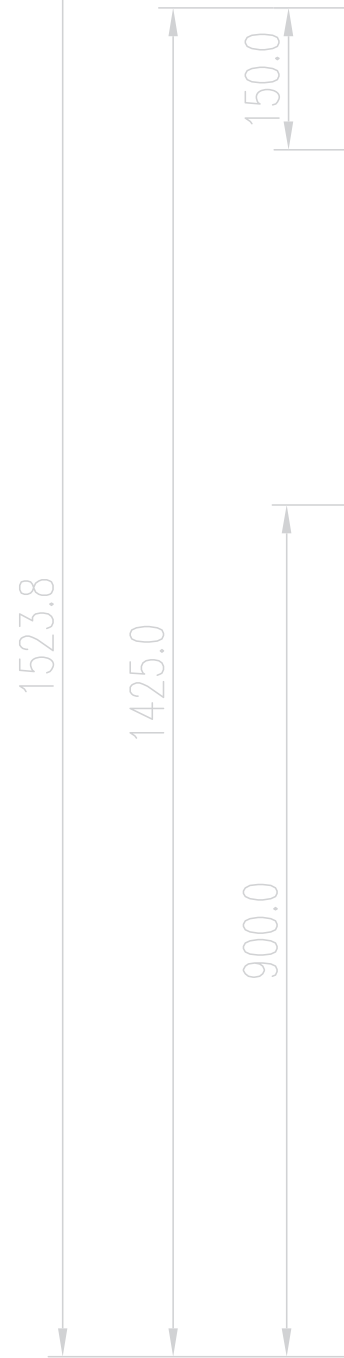
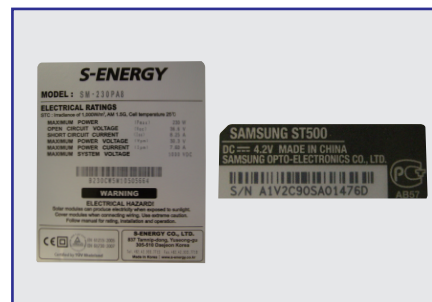
- Bar code and data are **not damaged by chemicals or abrasion**
- **No illegibility problem** caused by damaged bar code printer head
- **No problem of printing failure** caused by ribbon
- **No extra maintenance cost** for ribbons or other consumables

**EXEMPLARY SUPPLY**

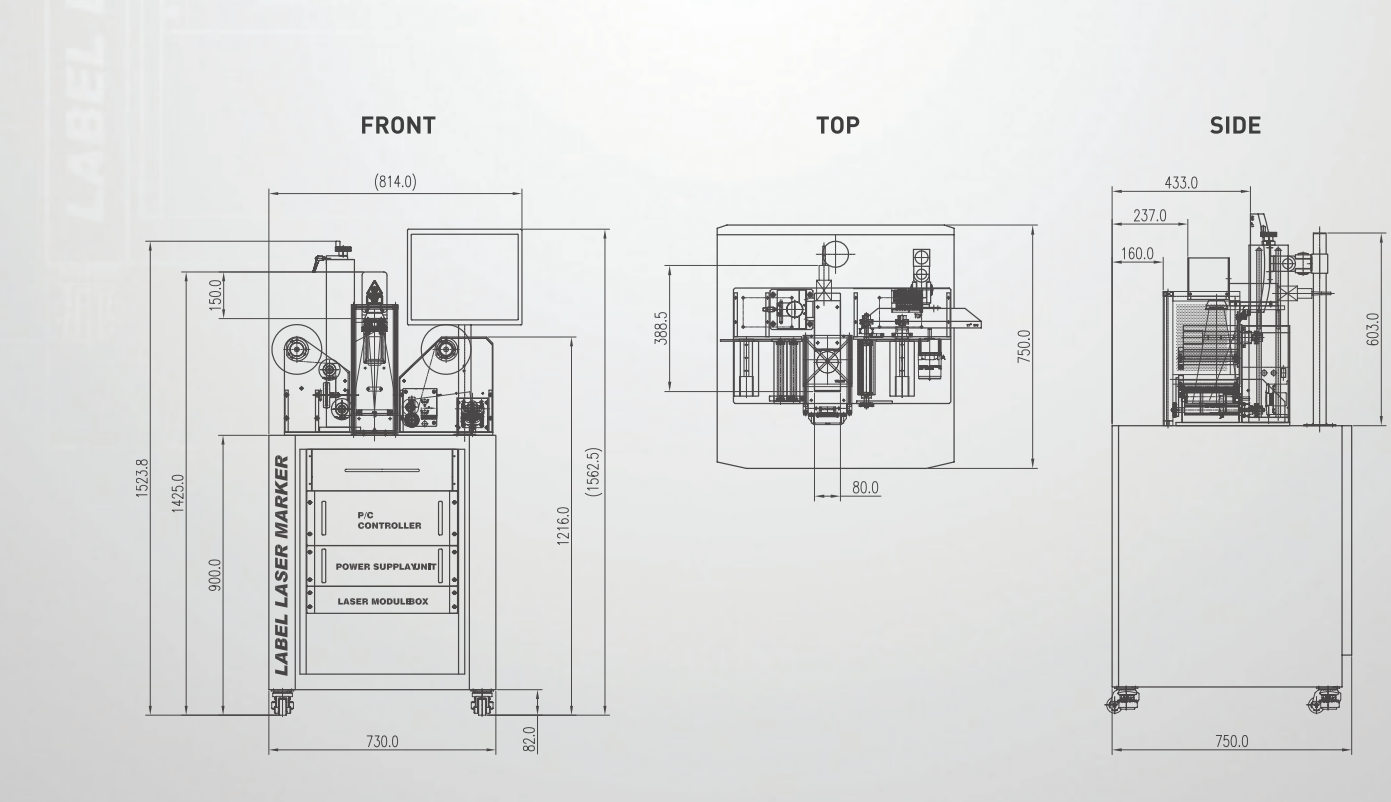
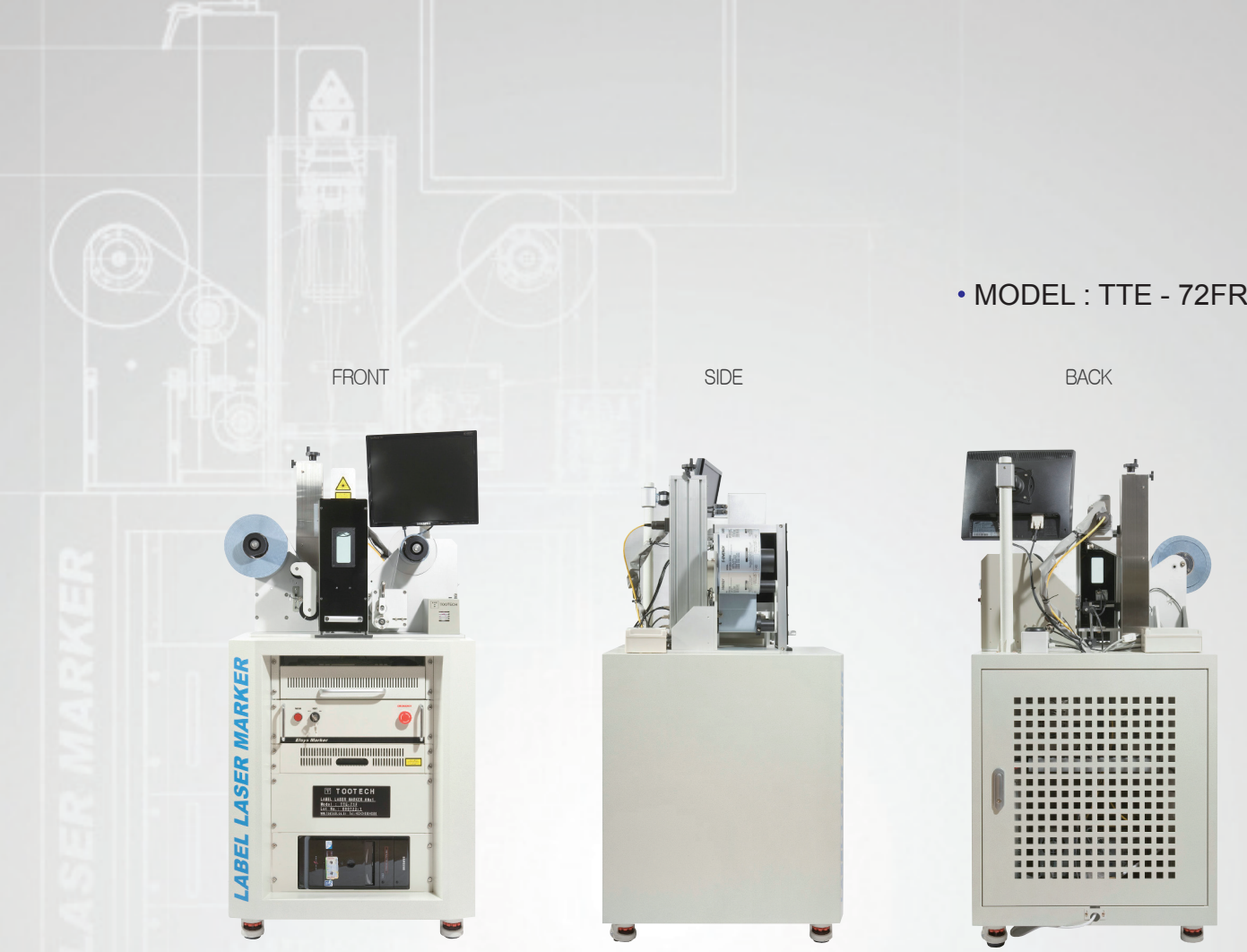
**Laser label base sheet**



**Exemplary production of laser labels**



• MODEL : TTE - 72FR



## SOLUTION 1

Solar cell modules whose service life is more than 20 years, However, the product information in the bar code label was completely erased within one year.

- **Customer : 'S' Company**
- **Product: solar cell module**
- **Problem:**

S Company whose major product is solar cell module showcased its products in the Intersolar 2008, the largest PV exhibition in the world, to advance into the European market where new renewable energy technology is attracting spotlight. But, it was barely one year from the first shipment to Europe a claim was received.

The engineer of S Company flew to Europe to examine the products, and found out that all bar codes on the solar cell modules have been erased. The bar code labels printed with ribbons have been oxidized by sunlight, rain, and etc., within one year.

As the service lives of solar cell modules are more than 20 years, the loss of the product data has made the customer in Europe upset, not to mention the A/S problems. **The European customer requested to provide indelible bar code labels by any means.**

The agony of the engineer in charge was ended when the engineer happened to read a newspaper article about the indelible bar code label of TOOTECH.

- **Solution :**

The engineer did not hesitate to contact TOOTECH and found out that the indelible bar code label of TOOTECH is the perfect solution for solar cell modules exposed to direct sunlight and weather.

As the bar codes are printed in the intermediate layer, not on the surface, of the label by laser beam, they are protected from weathering and sunlight, maintaining product information for more than 20 years.

The existing bar code label printer was replaced with the laser label printer of TOOTECH, which has satisfied the European customer to maintain the business relationship. Furthermore, the laser label printer has upgraded the competitive power of the product.

## SOLUTION 2

How to save the unnecessary A/S cost caused by damaged bar codes?

- **Customer : 'S' Electronics**
- **Product : digital camera**
- **Problem:**

The heavy burden of A/S cost had been a headache of S Electronics. The warranty period of its digital camera is one year from the date of purchase.

The information of the product is read and saved from the bar code label, however, since cameras are subject to be touched by the hands resulting in damaged or erased bar code label.

The loss of bar code data means the loss of the warranty data. Without the bar code, the cameras which were purchased more than one year before are subject to free-of-charge repair according to the statement of the user. Some users even erased the bar code intentionally.

The person in charge of the increasing A/S expenses caused by the erasable bar code searched for a solution, and found out **the laser bar code technology of TOOTECH.**

- **Solution :**

The cameras applied with the indelible laser bar code label of TOOTECH present clear warranty period, not influenced by environment or intentional deletion, resulting in the saving of unnecessary A/S expenses.

## SOLUTION 1

Navigators need data upgrade from time to time.  
Data upgrading not possible if without bar code information?!

- **Customer : 'D' Company**

- **Product : Navigator**

- **Problem:**

D Company which produces navigators had had a serious problem.

Due to their characteristics, navigators need data upgrade from time to time. However, many users complained that they could not access the upgrade service due to deleted bar codes.

Since ribbon type bar code labels are easily oxidized when exposed to direct sunlight, and navigators are mounted close to the windshield, thus, exposed to sunlight.

In addition, the chemicals included in the detergent used for washing car interior could delete the bar codes.

Without bar code, customer services including data upgrade and A/S cannot be provided properly, leading to customers' complaint and fall of company image.

**The solution was the indelible laser bar code of TOOTECH.**

- **Solution :**

Customer services can be provided without any problem when the laser bar code labels of TOOTECH have been applied. Customer satisfaction has also been upgraded in addition to brand reliability. Improvement in the work efficiency of A/S personnel – no need to inquire product information in a separate procedure – is an additional effect.

**The vision of the growth of indelible bar code label is almost unlimited.**

Further strengthen your global competitiveness with the business solution of TOOTECH which leads the era.

**Indelible bar code information guarantees efficient control of the distribution of materials and products.**

**Indelible bar code labels can protect your precious technologies and information from forging.**

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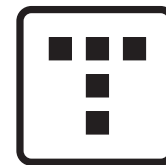
*Developed for the first in the world!*

We offer a different-dimension solution for damage, deterioration, maintenance, and failure rate of bar code.

The Indelible Bar Code Label is developed by and a patented, unique product of TOOTECH.

It is an innovative bar code label resistant against all kinds of environmental impacts such as chemicals, scratch, or time.

**TOOTHCH** Barcode & More Solution Frontier



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