

# BARCODE LABEL LASER PRINTER

INERASABLE BARCODE LABEL.  
LASER BARCODE PRINTER THAT  
DOESN'T REQUIRE ANY EXTRA SUPPLIES.

MODEL : TTE-72FP



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

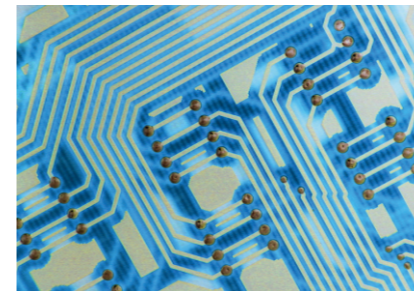
**TOOTECH**  
Barcode & More  
Solution Frontier

## 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 barcode labels and barcode label printers for indelible barcodes 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 ~ Establish TOOTECH

2005 Develop the Laser Barcode Printer (Version1 : TTE-72FR)

2006 Register patent (Inerasable Laser Barcode Label)

2008 Supply Contract with Solar Module (Inerasable Laser Barcode Label)

2009 Supply contract with SAMSUNG (Inerasable Laser Barcode Label)

2010 Register Venture Company

2010 Acquire UL Certification - USA, Canada (Inerasable Laser Barcode Label)

2011 Register patent (Seal Label can be used on the surface of paper)

2011 Advancing to Japan - Conclusion of contract with Japanese Agency (Inerasable Laser Barcode Label)

2013 Develop the Laser Barcode Printer (Version2 TTE-72FP)

2014 Apply the Laser Printer to Battery Label of SAMSUNG Cellphones.

**Inerasable Barcode Label.  
Laser Barcode Printer that  
doesn't require any extra supplies.**

**We offer a different dimension solution for  
damage, deterioration, maintenance, and  
failure rate of barcode.**

The Indelible Barcode Label is developed by and a patented,  
unique product of TOOTECH.  
It is an innovative barcode label resistant against all kinds of  
environmental impacts such as chemicals, scratch, or time.



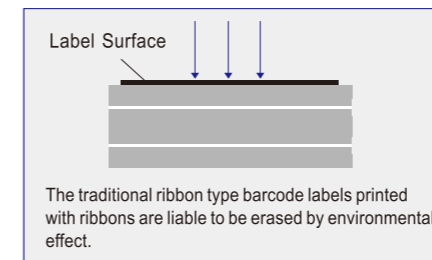
## Laser Label Structure

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

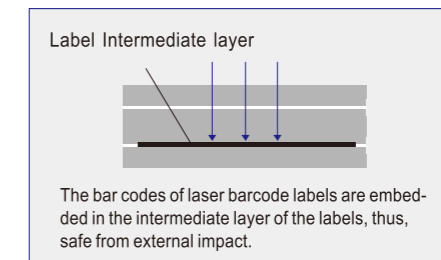
The indelible laser barcode label is an exclusive product of TOOTECH no competitor at all.  
Currently, SAMSUNG Electronics is applying TOOTECH labels because the conventional bar code labels  
are liable to be erased. When fully re cogbized, the labels sll be a dopted by so many companies as to  
restructure the future barcode market.

### PRODUCT FEATURE

#### Conventional Ribbon Type Label



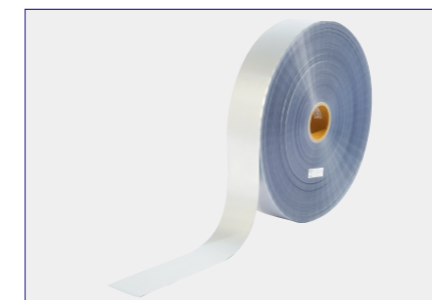
#### Indelible Laser Label



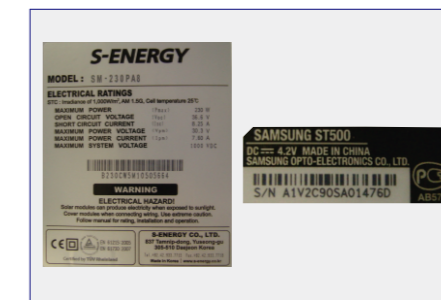
- Barcode and data are **not damaged by chemicals or abrasion**
- **No illegibility problem** caused by damaged barcode printer head
- **No problem of printing failure** caused by ribbon
- **No extra maintenance cost** for ribbons or other consumables

### EXEMPLARSUPPLY

#### Laser label base sheet



#### Exemplary production of laser labels



1523.8

1425.0

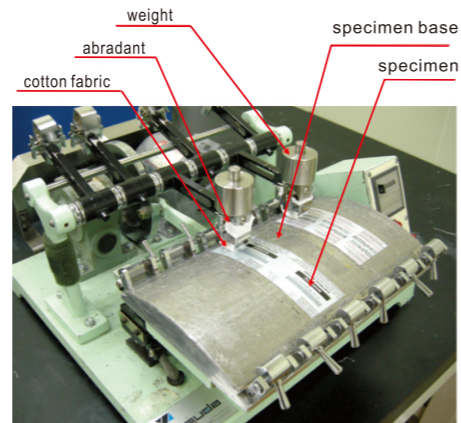
900.0

150.0



## 1. Test of Durability of Abrasion (Official approval FITI Test)

We observe the extent of damage to use the abrasion tester to a brase the surface of Barcode Label 50th, 100th, 150th, 200th, 250th, and 300th times. When it worn out, the pressurized load is 500g, and the abradant which is touched with Barcode Label is covered by white cotton. We put First class reagent Methyl Alcohol (99.5%) to White cotton every measurement.



<Illustration, Durability of Abrasion Tester>

<Table, Result>

Views	Ribbon Label	Laser Label
Suggestions	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
50 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
100 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
150 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
200 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
250 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155
300 th	89002Y8902953 4000 mAh리튬 폴리머 *배터리의 보증기간은 6개월입니다.	G220TW5M8400155

## MODEL : TTE - 72FP

FRONT



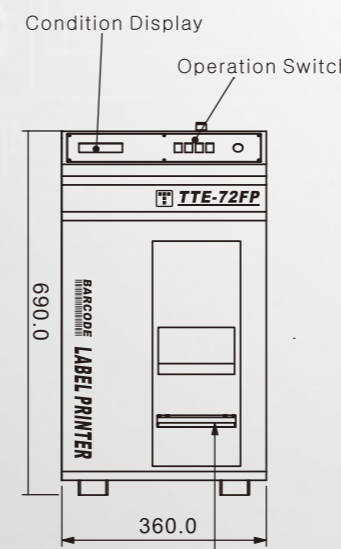
SIDE



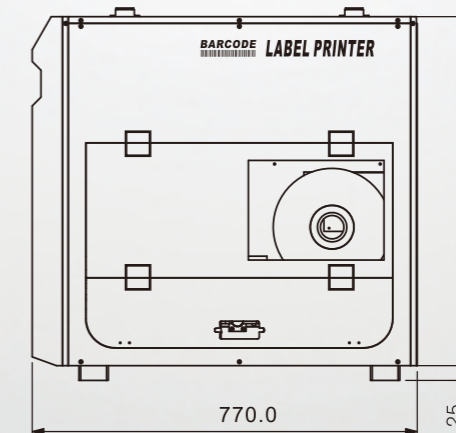
BACK



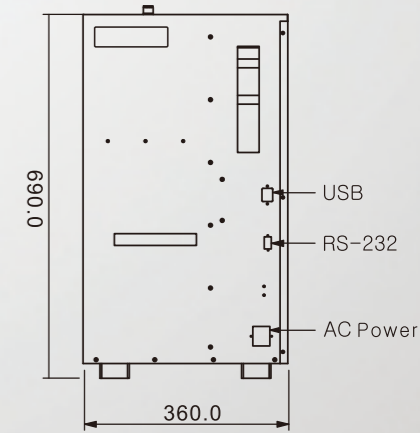
FRONT




SIDE



BACK



Model	TTE-72FP
Print Area	120mm(W) x 160mm(H)
Print Speed	Max 500 chr/s
Print Resolution	600 ~ 2,000 dpi
Laser Type	Fiber Type
Laser Power	Max 20W
Communication	USB Type, (Option : PCI Interface)
Size	360(W) x 770(D) x 690(H) (mm)
Weight	70kg
Option Part	Rewinder (External), (Bartender Barcode Software) (Barcode Vision Inspector)
Software	Window Print Driver Provided (32bit PC use only)
Cooling Method	Natural Air Cooling
Electric Source	85 ~ 265 VAC (47 ~ 63Hz)
Workable Temperature	+10 ~ +35°C
Picture	

·The specifications are subject to change without notice.

SOLUTION 1

**Solar cell modules whose service life is more than 20 years, However, the product information in the barcode 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 barcode 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 barcode 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 barcode 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 barcode 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 barcode 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 printer has upgraded the competitive power of the product.



## SOLUTION 2

## How to save the unnecessary A/S cost caused by damaged barcode?

- **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.

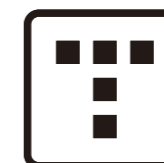
The information of the product is read and saved from the barcode label, however, since cameras are subject to be touched by the hands resulting in damaged or erased barcode label.

The loss of barcode data means the loss of the warranty data. Without the barcode, 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 barcode 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 barcode technology of TOOTECH.**

- **Solution :**

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



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