

From "labor saving" to "safety"  
A more patient-oriented tablet packaging system.

Full automatic tablet packaging system

YS-TR-FDS II

**PROUD**





# YS-TR-FDS II

## **PROUD**

proud [pra'ud]

1: Having justifiable self respect 2: Feeling great dignity or honor

→ Safety Management -- It's a vital vision for the future



We are in an era where strict safety and accuracy are demanded in medical practice.

What can an oral solid packaging system do for you?

■ Patient-oriented practice is also pharmacist oriented practice

Pharmacists and other health professionals wish for the best health for their patients. In spite of their wishes, medical safety is getting questioned more and more severely. Media coverage of medical accidents and medical malpractice is continuously making news headlines. Some medical treatment suppliers are active in establishing academic societies for studying and proposing ways to ensure "medical safety."

■ Importance of 1:29:300 in medical practice

Heinrich's Law is one of the most well-known achievements in safety engineering. This law tells us that there are 29 light accidents and 300 near accidents behind one actual occurrence of a fatal accident. The law proved that it is important for us to prevent close-call incidents. Preventing confusion between similar medicine names, preventing misreading numbers printed on a prescription, and much more--these everyday efforts are all essential to prevent fatal accidents.

■ Is it impossible to avoid human errors?

Unfortunately, we have to face that the number of human error incidents has never been zero, no matter how hard we try. This is why we need to use a system that relieves health professionals from worry. As a result of this, patients can be satisfied not only with health but with "safety" and "reliability" as well.

■ What should a future tablet packaging system be?

35 years have passed since Yuyama created the first oral solid packaging machine. It was the "labor saving" ability that impressed the medical service community.

As time has passed, this advantage is becoming nothing more than an ordinary function. What is wanted in the next stage is, as we mentioned earlier, the ability to support health professionals so that the patients can see the "safety" and "reliability." We believe this is also the wish of pharmacists.

The tablet packaging system, PROUD, was born from your wish.

Selling Point Dual rotary cassette cylinder

The newest model has inherited the efficient mechanism unique to Yuyama. When all of the medicine in a tablet cassette is used, the cylinder rotates automatically to bring the cassette to the front. So, you can replenish the cassette immediately in this state. This self-rotating method allows you to replenish a cassette at your will, even when packaging is in progress. Packaging is more efficient than ever because it is not interrupted by replenishing work.





# SPECIFICATIONS

High-end system--  
New functions and new mechanisms that deserve the name

## ADVANCED PERFORMANCE

Safe

Correct

High Performance

User Friendly

**NEW** ADVANCED PERFORMANCE 01

**Go for next-generation safety management**



Every single RFID drug cassette is recognized automatically.

PAT. P

Each cassette has an RFID chip. This chip is used for automatic recognition of the cassette position. Tablet packaging is correctly processed even if a cassette is set in a holder with a different number. An incorrect cassette position does not result in incorrect dispensing. You do not have to worry when taking out multiple cassettes to replenish them at the same time. Besides the information necessary for identifying the medicine, the RFID chip also includes additional information for when two or more drug cassettes contain the same medicine or medicine information. The RFID chip enables safe and secure handling.



**Barcode recognition ensures correct replenishing.**

When replenishing a cassette with tablets, hold the cassette in the replenishment check position at the front. Here, the barcode is scanned. After the code on the drug bottle is read, the scan result is displayed on the machine monitor. PROUD is provided with intelligent functions that are appropriate for the next-generation tablet packaging system.



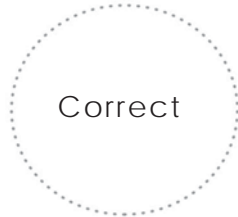
The cassette is recognized with RFID.

(PAT. P)

It is best to use Barcode and RFID at the same time. This is Yuyama's decision to make it convenient and mistake-free to replenish drug cassettes. With a barcode on the drug bottle and RFID on the drug cassette, the medicine is identified by using two different media. Since RFID is used for drug cassettes, there is no possibility that the same medium is incorrectly scanned twice.

# SPECIFICATIONS

High-end system--  
New functions and new mechanisms that deserve the name.



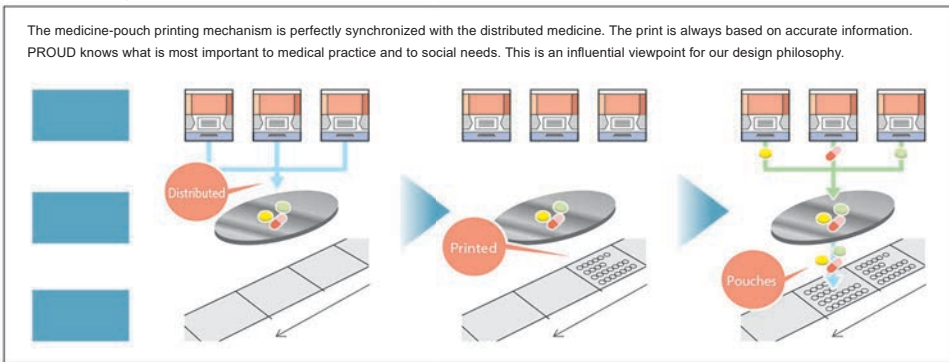
**NEW** ADVANCED PERFORMANCE 02

The revolver unit realizes world class safety.

The most accurate print on medicine pouches is perfectly synchronized with the medicine (PAT. P)

The print on the medicine pouches is based on the actual distributed medicine, not from the medicines that are expected to be distributed. The revolver unit, a new concept, enables this printing process. This process is significant in medical practice where 100% accuracy is required. Needless to say, pharmacists are relieved from worrying. In addition, if some medicine should be distributed as a result of an incorrect operation, the medicine is identified, and a warning message is printed on the medicinepouch. Moreover, all motor operations are always monitored by detection functions. The combination of the printing process and the detection functions make perfect medicine monitoring and warning possible.

Schematic diagram of the revolver unit unique to PROUD



Accurate expiration date and lot number are printed on every pouch.

PAT. P

While oral solid packaging is in progress, it is possible that you would have to replenish a cassette that has just been emptied in the packaging process. In this case, the tablets that have already been distributed and the tablets that will be distributed after replenishment may have different expiration dates and lot numbers. Other oral solid packaging machines cannot accurately print expiration dates or lot numbers because they cannot handle the situation described above. The revolver unit of PROUD is different. We have adopted a post-printing mechanism. You can input a new expiration date and a new lot number of the new medicine during the packaging process. The new expiration date and the new lot number are printed when the newly filled medicine is distributed into a pouch from the cassette you have just replenished. The revolver unit monitors distribution of medicine, enabling a function that is not achieved by any other oral solid packaging machine.

Examples of printed expiration dates and lot numbers



If two or more types of tablets are distributed in one pouch, the printed expiration date is the earliest one among the expiration dates of the medicine packed in the pouch. It is necessary to print the lot numbers of all tablets. However, the physical dimensions of the printable area are restricted. Therefore, the user has the ability to choose format.



Barcode recognition ensures correct replenishing.

High Performance

**NEW** ADVANCED PERFORMANCE 03

Operating-cost reduction and packaging capability for in-patient care.

Five packaging sizes at your selection  
Accurate management of running costs with the variable roller and the optimal size control function for pouch paper.

A variable roller mechanism is adopted. You can select the height size of a pouch from five options: 60, 70, 76, 80, and 90 mm. In addition, you can input a tablet size coefficient in the drug database. This enables PROUD to calculate an optimal amount of tablets per pouch, and then to distribute the optimal amount into each pouch automatically.



The 10 inch liquid crystal touch panel displays various types of information clearly. You can control simplified packaging from the panel.

The 10 inch large liquid crystal panel is adopted as the main panel, which provides the total display of various information such as packaging information and remaining amount of pouch paper. The display shows the total number of pouches in process and other various information with voice guidance in an easy-to-understand manner. Moreover, you can control simplified distribution, for example, in an emergency case or at nighttime. (Inputs: medicine name, distribution pattern, direction for use, number of days. Only the direction for use is printed.)



Simplified-distribution medicine-selection screen      Simplified-distribution distribution-start screen

User Friendly

**NEW** ADVANCED PERFORMANCE 04

Maintenance and cleaning is indescribably easy.

PAT



Open angle as wide as 36° at the tablet cassette holding sash

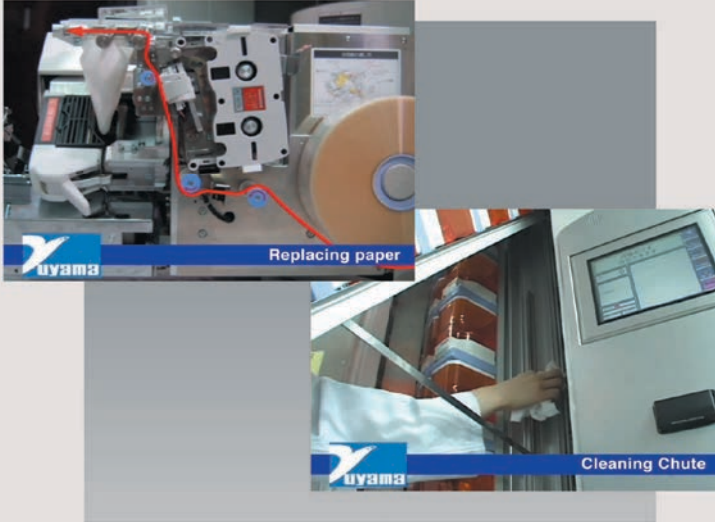
Our advanced design enables easy maintenance of the tablet path in the cylinder center. It used to be very difficult to perform maintenance work, such as cleaning, for the cylinder. This was because tablet cassettes were supported by it. PROUD allows you to open the sashes as widely as 36° while these sashes keep holding the tablet cassettes. Now it is easier to perform maintenance work more than ever before.

It is easy to wash the whole hopper with water.

All tablets pass through the large hopper. Just draw it out of the machine. Removing the hopper is that easy. Plus, you can wash the whole hopper unit with water. It is very important to keep it clean when we consider the fact that all the medicine, including manually distributed medicine, pass through the hopper. This seemingly small detail shows the advanced safety design of PROUD.

# EQUIPMENT

Long running best seller  
Exceptional performance that deserves the name.



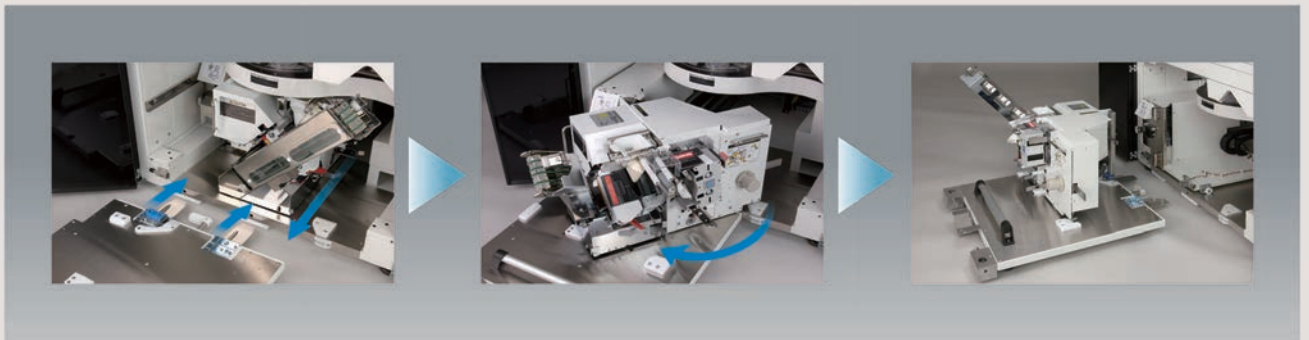
The AV manual guides you to replace consumables and to perform maintenance work in an easy-to-understand manner.

An AV manual, a voice-guided movie manual, is available on the PC that controls PROUD. This is the first in the packaging equipment industry. It explains how to perform each maintenance activity, such as consumable replacement and daily care. The AV manual is more comprehensive and easier to understand than a book manual. The combination of the printing process and the detection functions make perfect medicine monitoring and warning possible.



Select cassette size option depending on frequency of use. Five cassettes sizes with high UV protection.

There are five cassette sizes (XL, L, M, S, XS). Each has high UV protection and a special brush that does not cause damage to tablets during distribution. The image of the medicine is also printed on the medicine pouch label. Since the RFID method is adopted, you can set any cassette on any holder. The cassette recognition system can recognize the location of each cassette, no matter where it is. Some extra cassettes may be left out of the system because they are not used very frequently. You just put them on the holders to enable automatic distribution.



\*Image above is shown with optional exclusive Print-packaging Unit cart.

## Easy-to-Swap Print-packaging Unit (Optional)

The Print-packaging Unit is now available in standard and in narrow packaging sizes. These uniquely designed easy-to-swap standard/narrow print-packaging units could be changed back and forth to suit the application.

It is also a great feature for the end-users, especially in areas that immediate technical attention is not readily available. This minimizes down-time by having the user to easily swap the print-packaging unit with the optional spare unit right at the site.





Multiple prescribed distributions are enabled by the DTA tray (for tablets not automatically packed). **NEW** PAT. P

Daily dispensing (or one-time dispensing) is becoming more widely used. Separation of medical practice and dispensing is in progress, in particular, in hospital pharmacies. Inpatient dispensing is becoming one of the main tasks. In these pharmacies, short-term dispensing seems to be in view to prevent incorrect dosage (which may happen when in-hospital prescription is changed), to reduce the losses of pre-distributed tablets, or to reduce the time necessary to collect pre-distributed tablets. This is a worldwide trend. PROUD never overlooks a future environment. The DTA tray is a tray that is used when you manually distribute tablets that are not in cassettes. The DTA tray is used to manually distribute tablets that are not in cassettes. It has sufficient dimensions divided into 63 compartments. The user can make function settings for multiple prescribed distributions. You can thus handle a large number of short-term, prescribed distributions at the same time, reducing the time necessary for manual dispensing.



Unit combination is selectable at your needs. **NEW**

You can combine separate units to increase the number of tablet cassettes in PROUD. You can use PROUD according to your necessity and use.

$$260 + 76 = 336$$

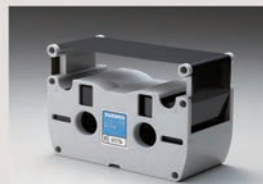
Slide rack unit saves space while Providing 336/406 cassettes in total.

$$330 + 76 = 406$$

Folded pouch paper, free layout, and color ribbon PROUD provides functions just for the user and for the patients.



PROUD has adopted folded pouch paper, realizing very easy replacement of pouch paper. It will take you no time to get used to replacing paper even if you are not familiar with machines.

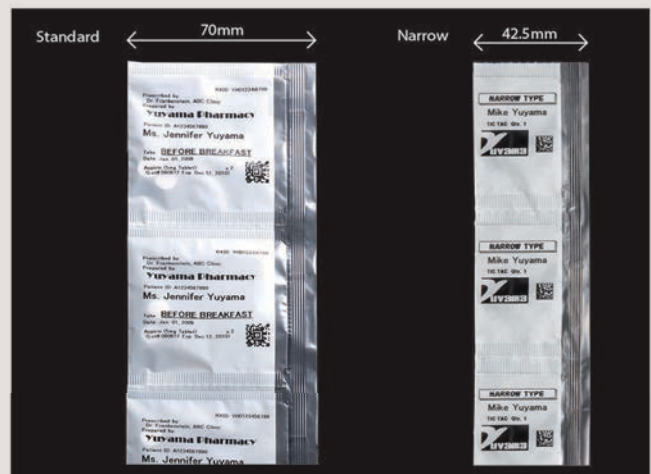


Standard Ribbon



Half ribbon

Two types of print ribbons are available to suit necessities and budget; Standard Ribbon and Half (width) ribbon



Clear Package



White Background Package

# SPECIFICATIONS

The higher dimension of FDS reliability.



260PROUD/330PROUD

Model	YS-TR-260/330F DSII
Dispense speed	60 pouches/min.
Tablet detection method	Photo sensor
Tablet distribution method	Central fall
Pouch print	Free size font, free print layout, vertical/horizontal print
Pouch size	Standard (70 mm W × 60, 70, 76, 80, 90 mm H) Narrow (42.5 mm W × 60.0 mm H)
Tablet cassette	XL type 36, L type 224, (260FDS 2 ) XL type 36, M type 64, S type 90, XS type 140 (330FDS 2 )
Tablet adapter (DTA)	63 pouches/cells
Power consumption	800VA (MAX)
Mass	580kg
Power requirements	AC100~230V ±10% 50/60Hz
Dimensions	890 W × 930 D × 1,998 H mm



336/406PROUD

Model	YS-TR-406F DSII
Dispense speed	60 pouches/min.
Tablet detection method	Photo sensor
Tablet distribution method	Central fall
Pouch print	Free size font, free print layout, vertical/horizontal print
Pouch size	Standard (70 mm W × 60, 70, 76, 80, 90 mm H) Narrow (42.5 mm W × 60.0 mm H)
Tablet cassette	XL type 42, L type 294 (336FDS 2 ) XL type 42, L type 70, M type 64, S type 90, XS type 140 (406FDS 2 )
Tablet adapter (DTA)	63 pouches/cells
Power consumption	1,000VA (MAX)
Mass	730kg
Power requirements	AC100~230V ±10% 50/60Hz
Dimensions	1,291 W × 930 D × 1,998 H mm



520PROUD

Model	YS-TR-520F DSII
Dispense speed	60 pouches/min.
Tablet detection method	Photo sensor
Tablet distribution method	Central fall
Pouch print	Free size font, free print layout, vertical/horizontal print
Pouch size	Standard (70 mm W × 60, 70, 76, 80, 90 mm H) Narrow (42.5 mm W × 60.0 mm H)
Tablet cassette	XL type 72, L type 448 (520FDS 2 )
Tablet adapter (DTA)	63 pouches/cells
Power consumption	1,500VA (MAX)
Mass	1,140kg
Power requirements	AC100~230V ±10% 50/60Hz
Dimensions	1,780 W × 930 D × 1,998 H mm

To provide relief and safety to all people.

## Great products with great service

### Integrated production and sales system:

Yuyama has the in-house development principle and the in-house production principle. We have high-quality technology to create better products everyday to meet your needs. High performance itself, however, does not necessarily mean much more than hardware. Our products are seen as excellent products just when we provide careful maintenance work and exceptional after-sales service. "Great products with great service." This is what we, Yuyama, believe in.

## Achievements recognized by the world in the global market

### Up to and from now on:

The tablet is the form of medicine that has been spread worldwide. To support the dispensing method of tablets, Yuyama's full automatic tablet packaging system keeps providing its advantages to the world. There is an undeniable fact that Yuyama's system has spread out from Japan to American and European countries as well as neighbor countries in Asia, and many achievements have been realized there. This makes it possible to anticipate future needs such as multiple distributions and daily dispensing out of the DTA tray.

## Ahead the curve in international safety standards

### Creating new world standards for dispensing practice:

This is the mission assigned to PROUD. We think PROUD should provide functions and quality that meet shared worldwide viewpoints, not just viewpoints of dispensing practice.

This is why we continue our efforts to meet standards such as [RoHS directives], [CE marking], and [MET specifications].


Yuyama has abundant international business experiences in the field of dispensing machines that lead the world. These experiences have borne fruit and enabled us to be certified by various safety standards in American, European, and Asian countries.

Our art and achievements, made to meet international safety standards, were integrated to develop PROUD. We are, of course, sure that we will be making a good announcement about acquisition of certifications in the near future. Yuyama is recognized as the global leader in dispensing systems development, and will always be active in providing world-class systems.



\*RoHS...The use of the following six substances is prohibited in products exported to Europe.  
(Lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl, polybrominated diphenyl ether)  
\*CE...A safety standard defined by EU concerning the products exported to Europe.  
\*MET/MET-C...A safety standard defined concerning the products exported to the United States and Canada.





**Always on your side to  
help serve your clients better...**

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Yuyama MFG Co., Ltd has obtained ISO9001(Year of 2000)on March 2003. It is not only for managing quality control process but also pursuing the 100% customer satisfaction. In addition, Okayama factory has obtained ISO14001, which is for environment management system, on September 2003.