

FOLDER

Toto Folder's product information magazine "FOLDER" Total Finishing Solutions

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Featur

Effects of introduction of new product

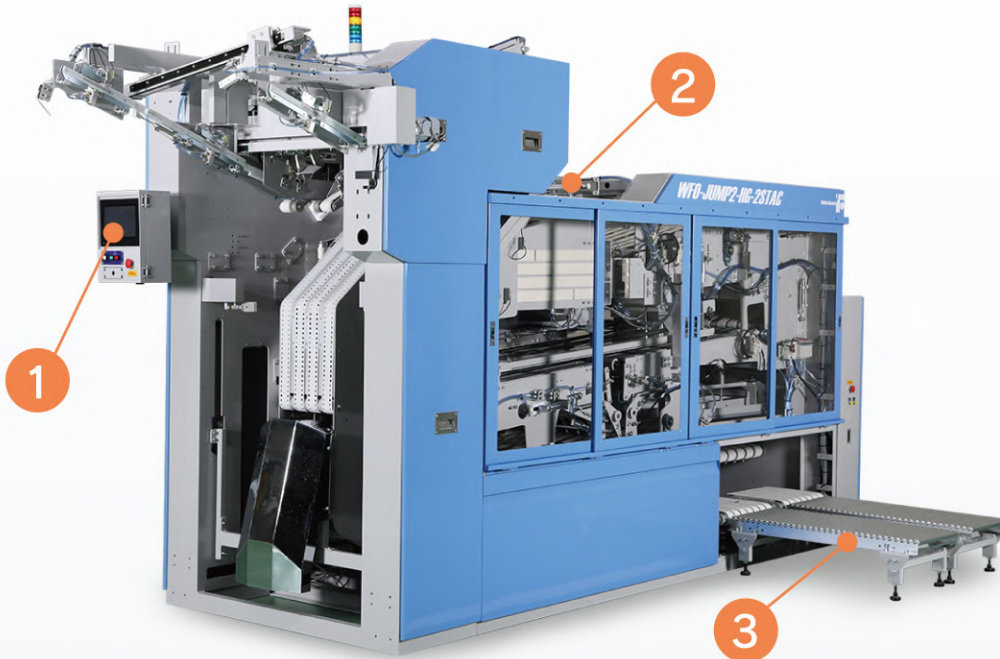
Workwear Folder "WFO-JUMP2-HG-2STAC"

- Customer's Report Meitetsu Cleaning
- Target items of Garment Folder
- Report "The Clean Show 2022"

TOTOFOLDER 
東都フォルダー工業株式会社

Workwear Folder with 2 Stackers

WFO-JUMP2-HG-2STAC



NEW FEATURES

High Quality Finishing

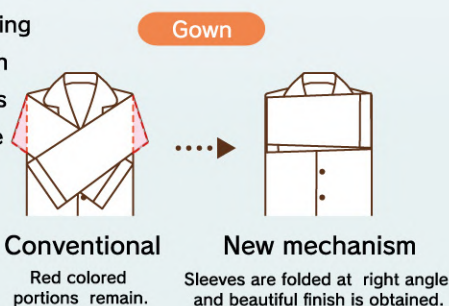
1 Fine setting to fold

At conventional model, body width settings were only 3 (S, M & L), while at this model, it can now be set freely between 180 - 300mm, allowing millimeter to millimeter folding adjustments.



2 Folding in accordance with features of items

The most appropriate folding pattern in accordance with features of sleeve portions can be selected each time so that garments with shapes different from uniforms can be folded beautifully.

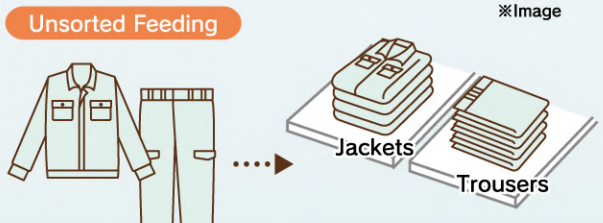


Work burden reduction

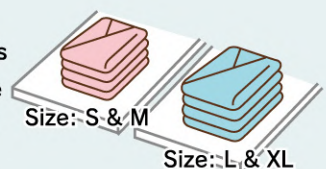
3 Discharge sorted by type

Two stackers are built-in, so uniforms are sorted by type and discharged.

For example, jackets and trousers are fed without being sorted and can be programmed to discharge jacket into one stacker and trousers to another stacker.



Another sorting program, for example, is to discharge S & M size to one stacker and L & XL to another stacker.



CUSTOMER TESTIMONIAL



Meitetsu Cleaning

Founded : March, 1956

Located in Nagoya, Aichi Pref.



●Semi-Auto Mode Possible to rework front opening



We visited Meitetsu Cleaning Headquarter in Nagoya city in October. They are very conveniently located just 2 minutes on foot from the nearest station, Kamiotai.

Their main business is Linen Supply Service and Cleaning business (Hotel Linen, Uniform & Workwear, Home Cleaning, etc.), but also Room Cleaning at hotels, Building Maintenance and Airport Ground Handling Services. Besides, they work on uniform manufacturing business. They are a forward-thinking company who adopted AI for Slip management.

At their laundry, 2 x Continuous Washer, 1 x Batch washer, 3 x Sheet Line, 1 x Yukata Line and 1 x Pillowcase Line are the main facilities, and they process approx. 25 ton per day.



●Kamiotai Station (the nearest Station)



Our purpose of this visit was to check the operation status of the Garment Folder, WFO-JUMP2- HG-2STAC(hereinafter, "2STAC") which was launched 2 years ago and introduced there in July this year. We met Mr. Hikosaka, Managing Director, Mt. Koyanagi, Department Manager, Mr. Kido Department Manager and other key managers.



● Department Manager Mr. Kido, Department Manager Mr. Koyanagi and other key managers

Recognized the improvement in folding technology

Prior to introduction, jackets and trousers were manually folded. Nowadays, it is difficult to collect necessary personnel, so the decision to introduce WFO-JUMP2-HG-2STAC was made for labor saving. When folding works were made by hand, total 4 people worked for this process. Now it is reduced to only 2. There was a happy comment that another decisive factor of the introduction was the improvement in folding technology compared with our convention Folder, WFO-JUMP which had been introduced in

2007. At the conventional Garment Folder, the body width settings were only 3 (S, M and L).

At 2STAC, the body width can be set freely between 180 mm and 300mm allowing millimeter to millimeter adjustment by adoption of new mechanism, which enables them to respond to detailed requirements from each customer. 32-mode storage capacity may be filled quickly. They have a plan that they will handle hotel gowns. Previously, they had the concern that uneven portions at waffle fabrics would be crushed after passing through the machine. This concern was solved by the demonstration made at Itakura plant. The process of folding quickly after putting items on hangers seemed easy and left good impression, they commented.

High quality folding like hand folding

They say, as this factory has Home Cleaning business, hand-fold quality is traditionally prioritized and 2STAC



● Jackets and pants are fed without sorting works.

produces the quality which the company looks for. They expected their customers would point out any folding differences after introduction of 2STAC.

Surprisingly, no such a question like "When did you introduce a folding machine?" has been raised yet, they say. This episode that folding quality by 2STAC is comparable with hand-fold encourages us very much.

Possible to feed jackets and trousers without sorting works

As the models name of "2STAC" shows, 2 Stackers are built-in and items are discharged after being sorted. Therefore, even if jackets and trousers are fed without being sorted, it is not required to sort them by hand. The production is constantly about 600pcs/hour.



● Jackets and pants are discharged after being sorted.

We received the following valuable comment:

Operating 2STAC, we find the finishing quality depends largely on conditions before feeding. When items not properly hung on hangers are fed into 2STAC, they

sometimes cause errors. This is very unfortunate, as these errors are not caused by 2STAC. When the combination between Hanger Catcher and Tunnel Finisher / 2STAC is further improved, the production will be also improved and the same quality will be kept no matter who does it.



●2STAC was introduced at the same time as Hanger Catcher and Tunnel Finisher.

Less hassle, less burden

After introduction of 2STAC, they do not have to deal with labor shortage due to sudden absence of operators and they now have more peace of mind, they say. In a few weeks after the introduction, as they were not accustomed in operation of 2STAC, they wasted some time, but now they are able to finish their works without over time works every day, they added. As an effect of the introduction, they told one episode. Just recently, during consecutive holidays they got an urgent order. It would have taken one hour if it had been done manually by 2 people. But they completed it only for as short as 15 minutes by operating 2STAC. They appreciate the effectiveness at Production Counter Function at Touch Screen, because

manually counting the produced number is no more required.

Struggles after introduction

According to them, the biggest challenge after the introduction of 2STAC was getting workers to understand the merits from the introduction.

The workers seemed to have worried about losing their jobs due to mechanization. Then, they did not welcome the machine. But, getting accustomed with the machine over time, their impression changed from “losing my job” to “working easier”. Due to the fact that all they have to do is to easily hang items on hangers without folding in the hot workplace at the middle of summer, the machine has become indispensable.

The number of workers was decreased from 4 to 2, but one of the two is aged and moved to the job with work load less than before, the other was moved to manual fold job section. The both were moved to the right places. As a result, the mechanization at one part made it possible to distribute personnel to the section short of labor, which resolved labor shortage problem of this company.

Meitetsu Cleaning will continue to “save

labor” and “improve work environment” for workers to continue longer.

At the end

We had a chance to see Mr. Hikosaka the Managing Director, and asked him for comments on introduction of the machine. “Prior to introduction of 2STAC, workers had to feed manually, I had the impression that it was a big burden to them. Now this burden has been considerably reduced thanks to 2STAC. Productivity is, of course, important, but what more important is burden reduction to workers. I am sure that this will lead to productivity increase. Our challenge is how to fully utilize this machine. Change of environment from hand-fold would cause workers to feel gaps, which could generate new burdens. It is important to find our own way to utilize this machine and to keep the same quality whoever may operate. We have a plan to change our factory layout over to the next fiscal term. Our final evaluation of 2STAC will be found whether our target value can be achieved and/or whether our target efficiency can be realized.”



●Mr. Ezaki,
President & CEO



●Mr. Hikosaka,
Managing Director

●Meitetsu Cleaning main shop: Located next to the parking



Examples of Garment Folder Target items



Doctor coat



Nurse wear



Medical Scrub



Coverall



Workwear
(Jacket / Trousers)



Garments with
buttons



Sheff Jacket



For Mass
Production



WFO-JUMP-HG



WFO-JUMP2-HG



WFO-JUMP2-HG-2STAC

New Sleeve
Fold Mechanism

No

Yes (Refer to P1)

Yes (Refer to P1)

Method of Feeding

Automated Hanger / Manual

Automated Hanger / Manual

Automated Hanger / Manual

No. of Stacker

1

1

2

Folding Patterns

Chest side up

Both Chest side up and Back side up

Both Chest side up and Back side up



T-shirt



Polo shirt



Indoor wear
(Jacket / Trousers)
Spa / Gym



Gown / Bathrobe



Monk wear

For small lot
production



Method of Feeding

Clamps



T-BOX

No. of Stacker

1

Folding Pattern

Chest side up

Options

- Discharge to either right or left sideways
- Discharge to Table (incl. Lift-up)

For Mass
Production



Method of Feeding

with Body



WFO-7COMB

No. of Stacker

1

Folding Patter

Both Chest side up &
Back side up

※ Not applicable
to trousers



Illustrations above are examples.
Depending on materials and/or sizes, some garments
may not be dealt with.

NOTE

Report The Clean Show 2022

Atlanta, GA, USA



Toto Folder Mfg. Co., Ltd. participated at Clean Show 2022 held in Atlanta, GA, USA between July 30 through August 2, 2022 in collaboration with US distributor Lapauw USA LLC. The exhibited models were new development, "BFS-2-30" Blanket Folder and "TB-100F-WK" Towel Folder.

BFS-2-30 is the integrated Blanket Folder consisting of Feeder section which equips 2 x Cornerless Feeding Station with Buffer function and Folder section. The live performance which demonstrated very speedy feeding and reputed folding technology, attracted a lot of interests from visitors and relevant people of the industry.

Another exhibited model, TB-100F-WK is the folder which is developed as a towel folder, but as this type

of folders are used to fold various types of items as the multi-purpose folder in the US, the live performance in the exhibition was made with fit sheets, patient wears, aprons and so forth in addition to towels and demonstrated speedy and quality folding.

We are sure that our participation in this exhibition impressed the laundry related industry in the US, (the world's biggest market), with high quality and reliability of Toto products.

