

# Professional Support Wear

## “ **STAYS®** ”

Reduce Burden  
And  
Free mental stress

DETAILED INFO EDITION

Presented by Hamaya Principle Ltd.,

PAT No, 6613397 In JAPAN  
Patent pending in THAILAND

# 【Reduces physical problem which is increasing with remote work and telework】 Professional support wear with patented technology ※1 Release 「STAYS®」 for General market



Hamaya Principle Ltd.,  
CEO Koji EMORI

Hamaya Principle (Headquarters : Shinjuku, Tokyo. (CEO: Koji EMORI) support remote workers who are suffering from physical problems such as stiff shoulders and low back pain. Until Now, He sold for only businesses.

Start to sell for personal, general market sales a

**Professional support wear that can be worn in the sitting position 「STAYS®」 ※2**

## 「STAYS®」 Overview

STAYS® was developed for the purpose of reducing physical fatigue and shoulder, waist, and knee strain during work and daily life. A new type of clothing-integrated core (Trunk) support wear.

Applying the most advanced core stabilizing theory,

The movement of the two carbon bars supporting along the spine is linked with the waist corset belt

By assisting abdominal pressure, it stabilizes the trunk and acts on anti-gravity muscles, reducing physical stress such as fatigue and low back pain.

Our starting point is not "make it easier to work", but "make your body easier to work", which concept is apart from other support suits.

As well as labor reduction You can use it in daily life.

Existing assist suits are specialized for mid-waist postures and lifting heavy objects, but many are not suitable for sitting position works such as "driving a car".

STAYS® can be worn without disturbing standing, mid-waist, sitting, twisting and all body movements. Since it is lightweight and integrated with clothes, you can wear it under the jacket or under the coveralls so that you will not feel any discomfort. We have a record of delivery to dozens of companies including JA.(JA is a major Cooperative organization of agricultural products.) For the detail, Please visit our website. [Home page](https://www.hamayaprinciple.com)

URL : <https://www.hamayaprinciple.com>

2019 year, Patented(Patent Num 6613397)

## STAYS® FEATURE

Since it can be used in the sitting position, it supports the posture during desk work and reduces back fatigue that causes back pain. As it is lightweight and clothing type, it is easy to put on and take off, and it will not cause stress even if you use it for a long time.

Clothing type that can contact the body with a wide surface.



● Clothing type that can contact the body with a wide surface. "STAYS®" which is an integrated type of clothing, has the vest Style. so it has the widest surface to support body. This help not to load on only a part. Different from conventional belt type supporters Significantly reduces the feeling of strangeness when worn for a long time.

Double belt that assists abdominal pressure and stabilizes the Trunk.



● Double belt that assists abdominal pressure and stabilizes the Trunk. Wide waist belt works with upper body movement for abdominal Pressure. The upper body is stable due to the fact that the body is naturally balanced. Stability of the upper body also reduces the load on the lower body, making it easier to wear In some cases, the pain in the knee has disappeared.

Patented technology. Carbon bar that works with the belt.



● Patented technology Carbon bar that works with the belt. The carbon bar that is crossed on the back is consists of several thin carbon bars. The bars are linked to each other to move the upper body and which enable link to corset the detail.

# 【Suitable for any scene】

Physical Worker



illustrations by MASAIR0

Driver



Caregiver



illustrations by MASAIR0

Sales Worker



Waitress

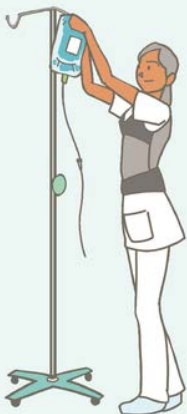


illustrations by MASAIR0

Home Maker



Nurse



illustrations by MASAIR0

Florist



leisure



Walking



Trekking

illustrations by MASAIR0

To Make Stable Core lead Good performance



Snow board



Golf

illustrations by MASAIR0

## Easy to wear 4 STEPS

①



①Wear it and pull up zipper

②



②While pulling the corset belt to the left and right, just fit it under the navel

③



③Install it while pulling the small belt strongly

④



④Fasten the shoulder belt by pulling it. Until the back bar does not separate from the body

## Core (trunk)support wear STAYS® View



Belt



Carbon

Size	Height(cm)	Waist(cm)	Weight(g)
XS	150-158	63-72	N/A
S	157-168	68-76	N/A
SL	157-168	84-92	N/A
M	167-174	76-84	400
MXL	167-174	92-104	N/A
L	173-182	84-92	N/A
XL	173-182	92-104	N/A

### Material

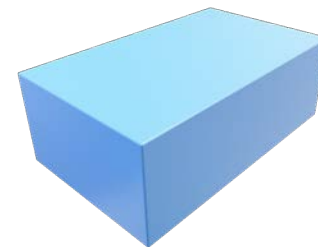
- Body : polyester 81% · Polyurethane19%
- Belt : polyester100%
- Back Born : Carbon fiber 100%

Weight : 400g (approx.)

Color : Black



## Core (trunk)support wear STAYS® View



Single Box Package : 35x80x5(t) cm  
Material : Double cardboard

## 【We publish evidence】

**For general market sales. We will publish the Evidence (scientific verification result) by public verification agency.**

With the cooperation of a third-party organization, "Tokyo Metropolitan Industrial Technology Research Center (Tokyo Metropolitan Industrial Research Institute) \*3", this study conducted a one-year demonstration experiment for the purpose of visualizing the effects.

### ■Survey outline

Research objectives : To visualize the actual effect

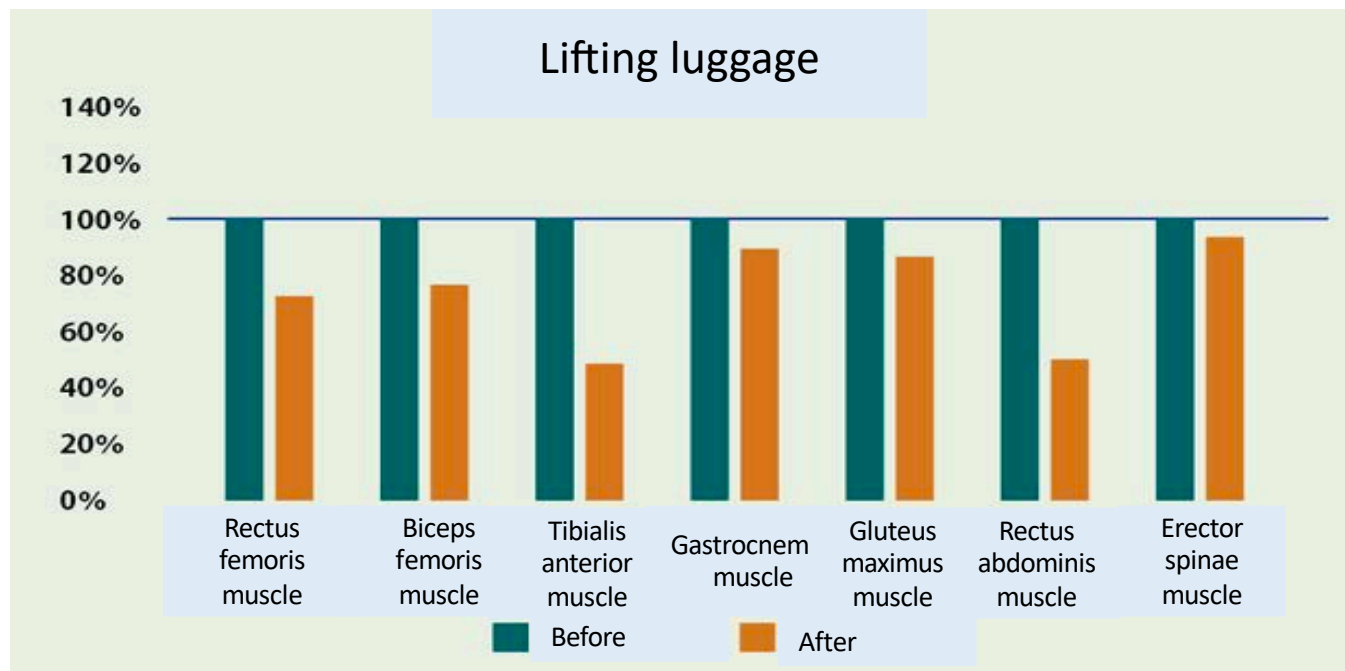
Survey target : Several men in their thirties to forties (Cooperation with Tokyo Industrial Technology Research Center)

Investigation period : APR 2019 ~ MAR 2020

Survey method : Demonstration experiment at an external organization including cooperation from the Tokyo Metropolitan Industrial Technology Center \*3

※3 Tokyo Metropolitan Industrial Technology Research Center (Tokyo Metropolitan Institute of Technology) aims to promote SMEs in Tokyo and contribute to the improvement of people's lives by conducting testing, research, dissemination and technical support related to industrial technology. It was established by the Tokyo Metropolitan Government in 2006 for the purpose.

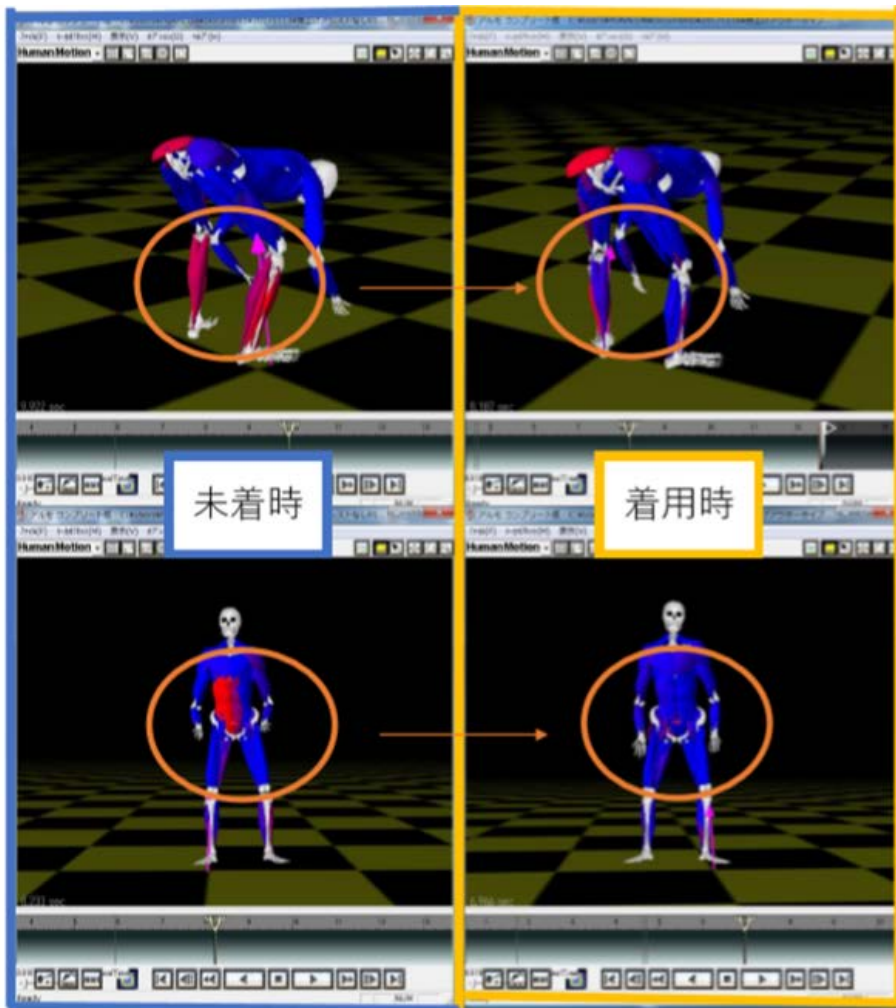
### ■Scientific verification results in reducing muscle load



As a result of measuring the electromyogram of each part when lifting the luggage before and after wearing This clothes, the thigh muscle activity is reduced by 20%, Total tibial muscle activity was reduced by 50%, demonstrating a reduction in the burden on the knees and lower back.



# ■ Verification results in experiments to balance the body (Motion analysis by ARMO (Gesport Co., Ltd.))



Performs a motion analysis the motion while carrying about 10 to 15 kg (gypsum board)

As a result of measuring the load on the muscle when the experimenter lifts the large board with ARMO®, it is known that the load is distributed to only one place as shown in the above figure and the failure risk is reduced. Corrects posture when worn to reduce musculoskeletal load  
The reddish area represents the musculoskeletal burden.

## ■ Correcting posture (Before)

Not only support when wearing, but also create the correct posture as it should be

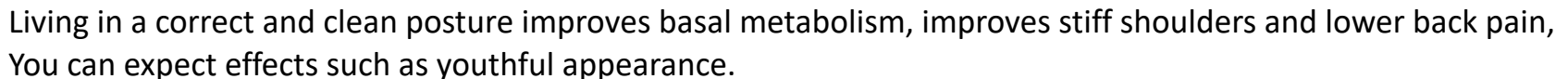


Posture measurement As a result of verification using YUGAMIRU, it was found that the posture was corrected to the ideal one.

Living in a correct and clean posture improves basal metabolism, improves stiff shoulders and lower back pain, You can expect effects such as youthful appearance.



**Not only support when wearing, but also create the correct posture as it should be**



## ※1 About patented technology

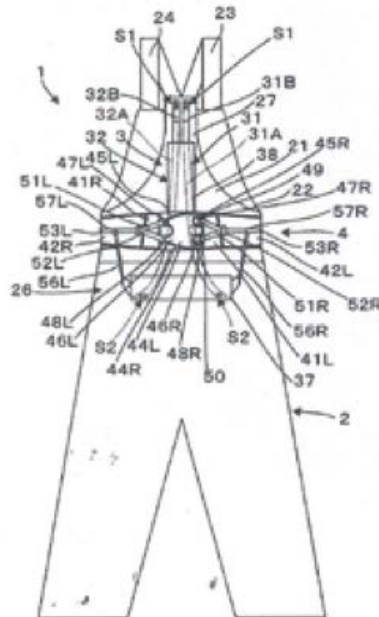
STAYS is a new support-ware that applies the most advanced core stabilizing theory. Core Stabilizing Theory is a theory that "by adjusting the trunk and acting on the anti-gravity muscles, good effects can be given to various parts of the body." The movement of the two carbon bars that support along the spine is linked with the waist corset belt to assist the abdominal pressure to stabilize the trunk and act on the anti-gravity muscles, resulting in fatigue and back pain. Developed with the goal of reducing physical strain.

We have obtained a patent for the technology for adopting the above theory in clothing in 2019.

Patent Num 6613397

Example :

Sportswear type, backpack integrated type, hug string integrated type, etc.



The original patent for the current version of STAYS owned by HAYAMA PRINCIPLE

Patent 6613397 : Corsets, corset tightening force adjusters and muscle strength assist equipment

## ※2 Matters related to general market sale

\*General market sales are only available on the online sales site within our HP.

\*Up to 2 items can be purchased per person so that we can provide it to as many people as possible.

\*If there are a large number of orders, we will respond to the delivery date at any time.

### 【Company Profile ・ Contact information】

Company name : HAYAMA PRINCIPLE LTD.,

URL : <https://www.hamayaprinciple.com>

Location : 〒160-0022 Hanazono Bld., 1FL, Shinjyuku 5-13-14, Shinjyuku-ku, Tokyo

CEO : Koji EMORI

Established : 10<sup>th</sup> JUL 2002

Business content : R&D, manufacturing and sales of clothing and body wear, Lectures, events

Contributions

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「STAYS」 can do partial customization according to industry、

Or you can develop it as a special order. Please feel free to contact us from the above.