



Safety helmet & Bump cap

Tanizawa industrial safety helmets & bump caps are all made in Japan.

Strict quality controls are conducted at TANIZAWA's Ibaraki Factory, which supplies safety products not only to Japan but also to customers around the world.

Certification of ISO 9001: 2015 (quality management system)






The head office of the Tanizawa Seisakusho, Ltd. and the Ibaraki Factory of the Joban Tanizawa Seisakusho, Ltd. (a manufacturing subsidiary) have obtained the quality management system "ISO 9001" certification.

Certification of ISO 14001: 2015 (environmental management system)

The head office of the Tanizawa Seisakusho, Ltd. have obtained the environmental management system "ISO 14001" certification.

Safety Standard

All of TANIZAWA's industrial safety helmets have passed the national examination of the Japanese Ministry of Health, Labor and Welfare standards. In addition, many models have acquired the JIS T 8131:2015 certification. (JIS standard certification is optional) The Ministry of Health, Labor and Welfare Ministry of Japan and JIS T 8131: 2015 have the following categories.

Classes(symbols)	Classification by use	Function
	For protection against flying or dropping objects	Prevents or reduces the danger caused by flying or dropping objects.
	For protection in the events of tumbling and falling down	To be for protection in the events of tumbling and falling down.
	For protection against flying or dropping objects For protection in the events of tumbling and falling down	Prevents or reduces the danger caused by flying or dropping objects and for protection in the events of tumbling and falling down.
	For protection against flying or dropping objects For electrical insulation at high voltage (service voltage: 7,000V or under)	Prevents or reduces the danger caused by flying or dropping objects, and protects the head against electric shocks.
	For protection against flying or dropping objects For protection in the events of tumbling and falling down For electrical insulation at high voltage (service voltage: 7,000V or under)	Prevents or reduces the danger caused by flying or dropping objects and for protection in the events of tumbling and falling down, and protects the head against electric shocks.

- For protection against flying or dropping objects
This standard is a helmet standard commonly used around the world.
Details of commonly used standards (such as ANSI, EN, JIS) are almost the same.
- For protection in the events of tumbling and falling down
This standard is unique to Japan and corresponds to falls.
By equipping a shock absorbing liner, the safety of the helmet was improved without the need to enlarge the shell.
- For electrical insulation at high voltage
Voltage used is set by Japanese standards. This is different from the test voltage.
High voltage : Test voltage = 20,000V / 1min. Service voltage: 7,000V or under
Low voltage : Test voltage = 3,000V / 1min. Service voltage: 600V or under

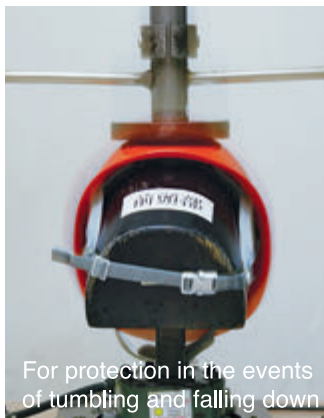
※ In this catalogue, the symbols shown in the table shows the protection range of each model..

Standard test

Impact absorption test



For protection against
flying or dropping objects



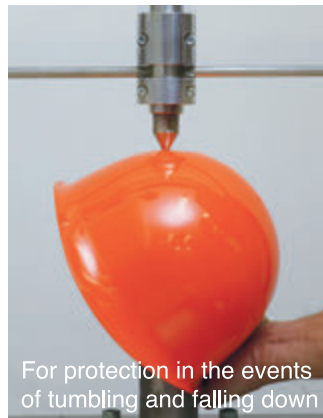
For protection in the events
of tumbling and falling down

Impact absorption performance of safety helmets are measured by free-falling a 5kg semi-spherical iron ball or iron disk from a height of 1m.

Penetration resistance test



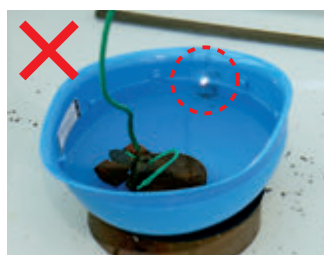
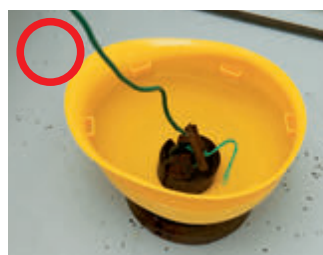
For protection against
flying or dropping objects



For protection in the events
of tumbling and falling down

Resistance against pointed or sharp objects is measured by dropping a conical weight and checking the helmet for any deformations.

Withstand voltage test of shell



This is a test to measure resistance to electricity.

Electrodes are placed inside and outside the shell in water, and the helmet has to withstand a voltage of 20,000V for high voltage models with working voltage of 7,000V or less, and 3,000V for low voltage models with working voltage of 600V or less, for a duration of 1 minute in order to pass the test. If the shell is damaged or cracked, leakage will occur, resulting in sparks forming.

Certification label

On the inside of the shell, there is a certification label that indicates the helmet has passed Japanese standards.

Most models only have the Ministry of Health, Labor and Welfare standards certification, while some models have JIS certification added to the label. They are all written in Japanese.

The Ministry of Health, Labour and Welfare standard certification

型式名称 / Model name	型式名称: 148-E3	帽体材質 / Shell Material = ABS
保護帽 / Safety helmet	保護帽	
Date of certification	労(平 24.3) 検	
Certification number	(1) TH3199 (3) TF758	
製造業者 / Manufacturer	製造業者 (株) 谷沢製作所	Tanizawa Seisakusho, Ltd
製造年月 / Date of manufacture	製造年月 H 29.4	April 2017
Certification items	(1) 飛来落下物用 (3) 電気用7,000V以下	For protection against (1) 飛来落下物用 / flying or dropping objects (3) 電気用 7,000V 以下 / To be of electrical insulation (7000V or under in service voltage)

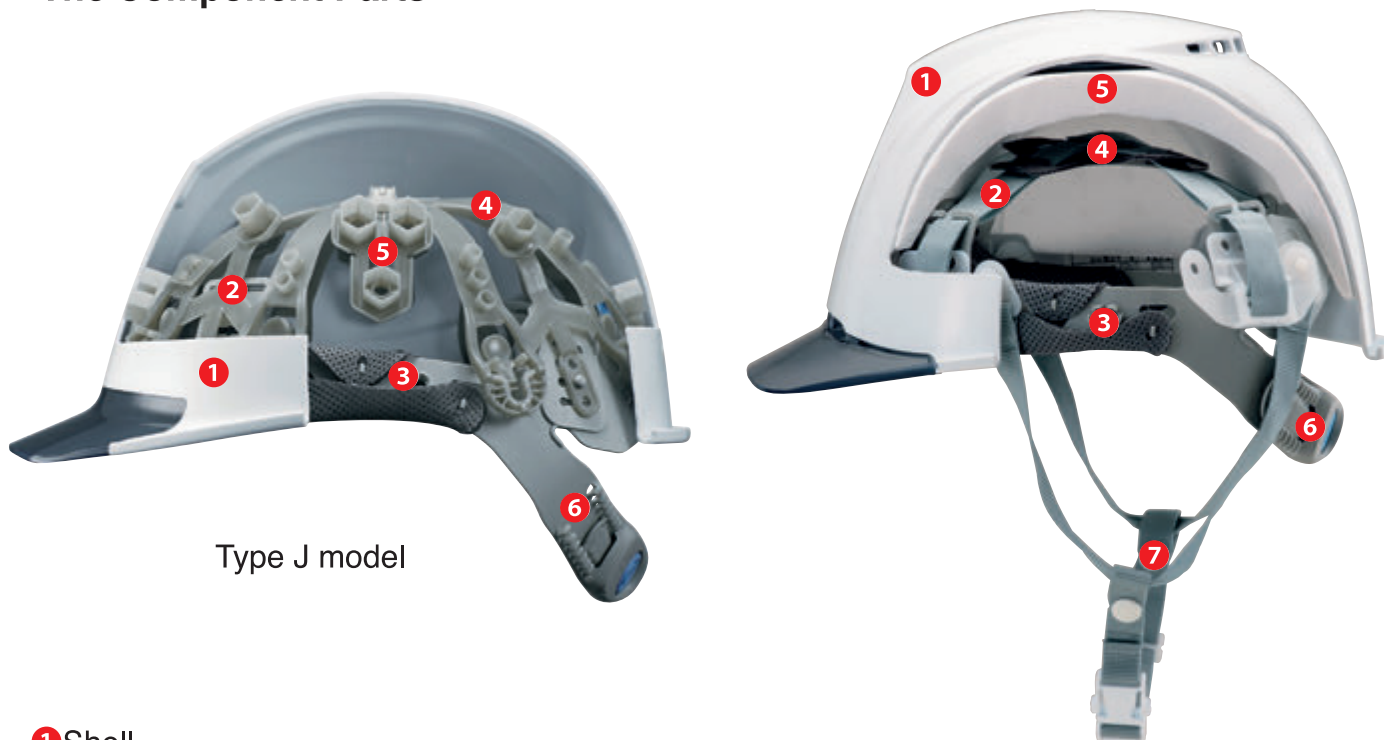
JIS Logo	JIS	産業用安全帽	Industrial safety helmet
Certificate authority/ Japan Quality Assurance Organization (JQA)	JQA	飛来落下物用 (電気用(最大電圧7000V)) 耐電圧試験20000V 10mA以下	For protection against flying or dropping objects For electrical insulation at high voltage (Maximum voltage: 7,000V) To have passed withstanding voltage test (20000V and 10 mA or under)
certification number	JQ0306024	製造業者 (株) 常磐谷沢製作所	Manufacturer / Joban Tanizawa Seisakusho, Ltd.
JIS standard number	JIS T 8131	製造年月 平成 29.4	Manufacturing date / April 2017

Japanese Industrial Standards(JIS) certification

着用時の注意：ヘッドバンドはあなたの頭に良くフィットするように調節してください。着用後あご紐は必ず正しく締めてください。
使用上の注意：一度でも大きな衝撃を受けた安全帽は外観に損傷がなくても使用しないでください。
部品の改造又は取外し禁止の注意：安全帽に初めからついている部品を改造し又は取り除かないこと。

Cautions at the time of wear :
After putting on the helmet, the chin strap needs to be properly fastened and adjusted.
Precautions for use :
Please do not use safety helmets which have been exposed to strong impacts, even if there are no visible damage on the helmets.
Caution regarding prohibition of modification or removal of parts:
Please do not modify or remove parts that have been attached to the safety helmet from the beginning.

The Component Parts



Type J model

1 Shell

The hard, smoothly finished material that provides the general outer form of helmet. It protects the head from direct impact and penetration from flying or falling objects. Holes inside the FRP shell fix the fittings (suspension) in place.

2 Fittings (Suspension)

The fittings (suspension) are composed of a hammock, a headband, a chin strap etc. These fittings are the parts other than the shock absorbing liner, which are fitted to the inside of the shell in order to soften the impact acting on the head of the wearer. Type J suspension is a fittings with the function of Impact absorption liner. Type J suspension is an international patent product of TANIZAWA.

3 Headband

The headband is fixed to the fittings (suspension). It helps soften impacts and absorbs moisture. Ensures helmet is fitted to users head securely.

4 Hammock

The hammock is fixed to the shell in two ways: hook-type and tack-type. Made of impact absorbing material, it is able to reduce the force of impact on the user's head.

5 Impact absorption liner

Parts fitted to the inside of the shell. The liner reduces the forces of impact from flying or falling objects. In the Type J model, the suspension is responsible for its function.

6 Easy push-release Adjuster (EPA)

EPA (Easy Push Adjuster) is a proprietary product of Tanizawa. The EPA enables the user to adjust the fit of the helmet with one push of a button while wearing the helmet.

7 Chin strap (4 point)

It secures the helmet to the user's head, and prevents it from falling off upon impact. It also ensures the helmet is fitted properly.



Materials

Tanizawa uses the following materials in our safety helmets, to get the maximum possible functionality and comfort.

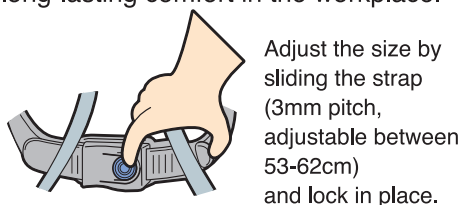
Material	Property	Flame resistance / heat resistance	Weather resistance	Insulation	Resistance to organic substances	Note
Thermosetting resin	FRP	◎	◎	✕* without ST#121-CZ	○ ~ ◎	Excellent weather and heat resistance but cannot be used to protect against electric shock
Thermoplastic resin	ABS resin	△ ~ ○	△ ~ ○	○ ~ ◎	✕ ~ △	Excellent protection against electric shock, but cannot be used in a high- temperature environment
	PC resin	○ ~ ◎	○ ~ ◎	◎	✕ ~ △	Better weather resistance than ABS
	PE resin	✕ ~ △	○	○ ~ ◎	○ ~ ◎	Ideal for use in situations using organic chemicals

◎particularly excellent ○excellent △slight weakness ✕weak *Electricity conducted through rivet holes

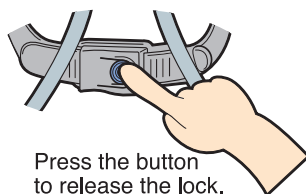
EPA Easy Push-release Adjuster

EPA allows you to adjust the fit of the helmet with one hand, while it is on your head.

- The headband and chinstrap prevent the helmet from slipping and falling off.
- A new, highly breathable material called 'Mawus™' provides excellent sweat absorption abilities.
- Large ventilation holes in the headband ensure the wearer long-lasting comfort in the workplace.



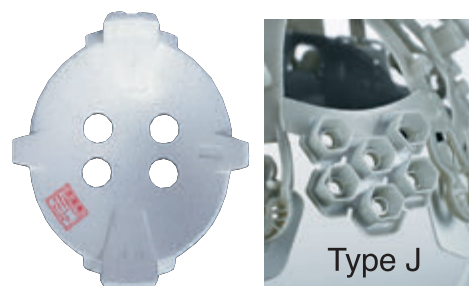
Adjust the size by
sliding the strap
(3mm pitch,
adjustable between
53-62cm)
and lock in place.



Press the button
to release the lock.



Easy Push-release Adjuster

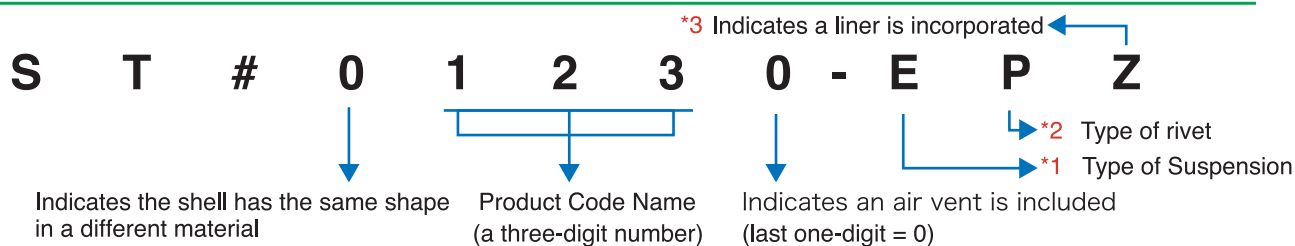


Impact absorption liner

Impact absorption liner

TANIZAWA'S internal test has shown that the impact absorption lining (equivalent to rider's grade) can reduce the impact load of accidental falls by up to 1/3 compared to helmets without a lining.

The explanation of the model number



- *1 Suspension : Please refer to page 21 of our catalog. It consists of Hammock, Liner and Tape.
- *2 Material of Rivet : **P** stands for "PLASTIC"
M stands for "Metal"
- *3 Liner : The parts for shock absorption. Please refer to page 22 of our catalog.



Type - J suspension model

The harness system that keep you cool, safe and comfortable.

1.Coolness

There are two Japanese safety standards for industrial safety helmets.

1)For protection against flying or dropping objects (Test impact point : only parietal area)

2)For protection in the events of tumbling and falling down

(Test impact point : For against flying or dropping objects + previous head, back of the head)

Helmets that are designed to protect the user from impact of falls are usually equipped with impact absorption liners to ensure better safety.

However, some customers dislike it as it traps heat.

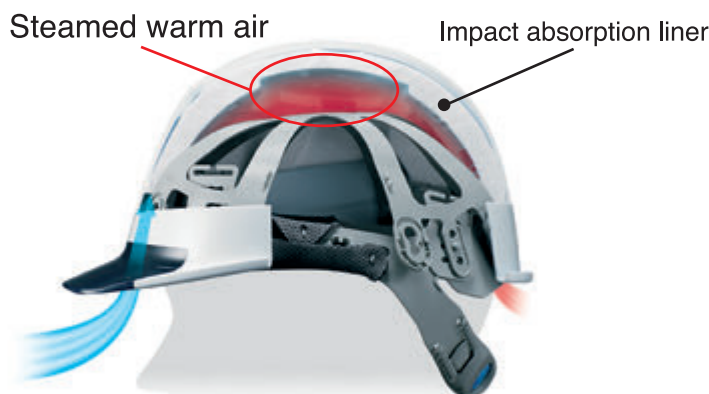
The impact absorption liner disturbs the flow of internal air, trapping hot air in the helmet.

Type J suspension solved this problem.

As the Type J suspension passes the "protection in the events of tumbling and falling down" standard without the impact absorption liner, it enables helmets to have improved ventilation compared to conventional models.

Conventional model

(For protection in the events of tumbling and falling down)



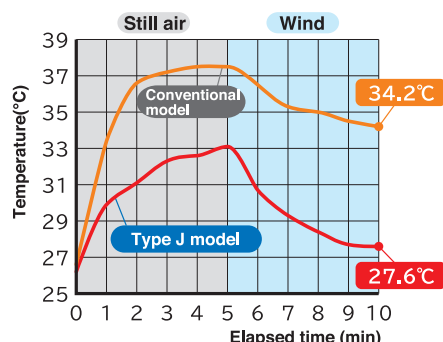
The impact absorption liner disturbs the flow of internal air, trapping hot air in the helmet.

Type J suspension model



As there are no impact absorption liners, internal air is allowed to flow and expel hot air.

Comparison of head temperature and the humidity.



Helmets with internal thermometry were placed on thermal mannequin heads set to 37°C .

Mannequins are placed in still air for the first 5 minutes to compare temperature rise.

Mannequins are then exposed to wind with a velocity of 1m/s (equivalent to walking speed) for the next 5 minutes to compare ventilation performance.

2.Safety

Conventional models without the impact absorption liner was only for helmets designed to protect the user from flying or falling objects. The Type J suspension passes the "protection in the events of tumbling and falling down" standard without the impact absorption liner by using a new impact absorption system.

Impact absorption test
(For protection at time of fall)



New impact absorption system



The pipes of this honeycomb form will be crushed to absorb impacts.

As a result of our original test, the Type J suspension model has shock absorption performance equal to or higher than that of conventional models (with impact absorption liner models).

- Japanese standard / Impact absorption test
(For protection in the events of tumbling and falling down) impact area
- TANIZAWA original impact absorption test impact area

3.Easy to disassemble

How to disassemble the suspension.

The new disassembly system allows the suspension to be changed easily.

Type J1,2
(8 points)



Release button



1.Push the round button and unlock the pin from the shell.



2.Slide suspension to the upper part while pushing the button.

Type J3,5
(4 points)



Grip point (Necked part)



1.Grasp the hammock along the grip point.



2.Pull upward.

4.Washable

Because there is no styrofoam liner, it can be washed easily. Use neutral detergent for cleaning.

Warning : Organic solvents, parts cleaners, etc. are prohibited.
The shell will be damaged.

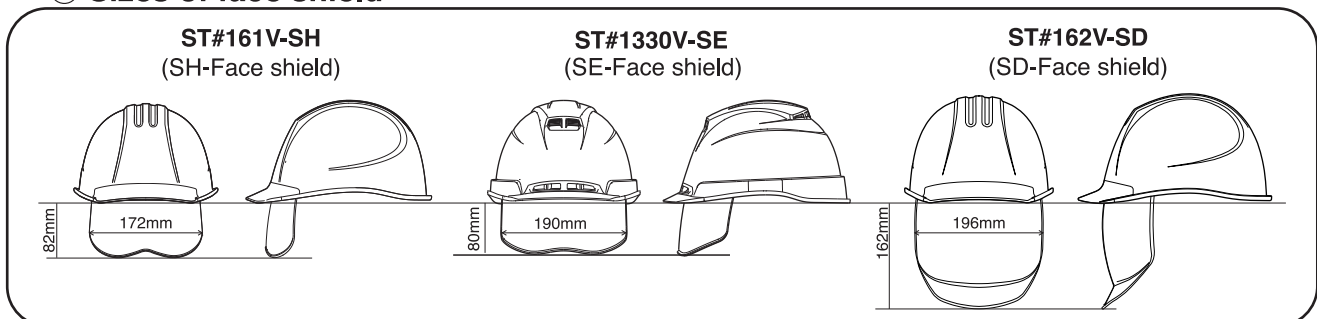


Built-in face shield model



○ The face shield is stored in the shell, and can be pulled out when necessary.

○ Sizes of face shield



Inner structure



SH face shield

Half size. Hard coating on both sides
(Scratch resistance)
Replacement is possible with the guide sheet.

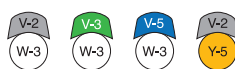


SD face shield

Full size. Hard coating on the surface
(Scratch resistance), anti-fog coating on the inside.
Replacement is only possible for shield.



○ Protect your face
from electric sparks
and flying objects



○ Made from PE,
resistant to chemicals
○ Protect your face
from chemical splash
○ Lightweight model



ST#162V-SD

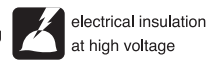
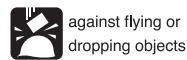


Suspension **C** Weight **615g**

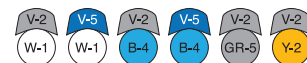
ST#0162V-SD



Suspension **C** Weight **535g**



Excellent ventilation & wide face shield



- It adopts a two-layer structure and has excellent ventilation
- A transparent peak and a wide face shield ensure a large field of view.

ST#1330V-SE

Suspension **B** Weight **525g**

Material **ABS/PC**
Shell / Peak

Two layer structure

Transparent peak

Rain guttering

Face shield **S E**

EPA



- Large sized (56-65cm)
- Wide face shield (Half size)

ST#161VLII-SDC

Suspension **C** Weight **620g**

Material **PC**

Transparent peak

Rain guttering

Face shield **SDC**

EPA-L



- Large sized (56-65cm)
- Wide full face shield

ST#162VL-SD

Suspension **C** Weight **630g**

Material **PC**

Transparent peak

Rain guttering

Face shield **S D**

EPA-L



Transparent peak & safety glasses replacing face shield



ST#161VJ-SH

Suspension **J 2** Weight **535g**

Material **PC**

Transparent peak

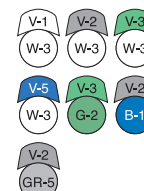
Rain guttering

Face shield **S H**

EPA



Gray shield instead of sunglasses



- It cuts about 60% of visible light and 99.9% of ultraviolet rays.
- Not suitable for welding work

ST#161VJ-SHGR

Suspension **J 2** Weight **535g**

Material **PC**

Transparent peak

Rain guttering

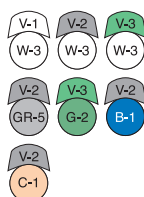
Face shield **SH-GR**

EPA



Built-in face shield model

Transparent peak and ventilation holes



ST#1610VJ-SH

Material PC	Transparent peak	Rain guttering	Ventilation hole	Suspension J 2	Weight 535g	Face shield S H	EPA
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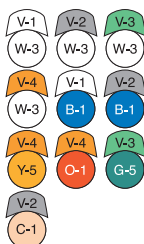
Standard type, made from ABS



ST#1161J-SH

Material ABS	Rain guttering	Face shield S H	EPA	Suspension J 2	Weight 470g
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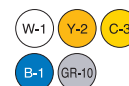
Standard type with transparent peak



ST#141VJ-SH

Material PC	Transparent peak	Face shield S H	EPA	Suspension J 2	Weight 535g
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Made from lightweight FRP, Standard type



ST#101J-SH

Material FRP Light weight	Face shield S H	EPA	Suspension J 2	Weight 460g
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Heat-resistant

Made from PC, MP style



ST#142J-SH

Material PC	Face shield S H	EPA	Suspension J 2	Weight 495g
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Made from lightweight FRP, MP style



ST#108J-SH

Material FRP Light weight	Face shield S H	EPA	Suspension J 2	Weight 455g
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Heat-resistant

The following helmets are the authorization passing all products of
Standard for Protective Helmets
(Ministry of Health, Labour and Welfare of Japan)



against flying or
dropping objects



protection in the
events of tumbling
and falling down



electrical insulation
at high voltage

Made from lightweight FRP, Full brim type



Heat-resistant

ST#177-SH

Material
FRP
Light weight

Face shield
S H

EPA

Suspension
E 3

Weight
485g



Made from PC, Short peak type



ST#189-SH

Material
PC

Rain
guttering

Face shield
S H

EPA

Suspension
E 5

Weight
495g



Crubo®

For disaster prevention & portable use

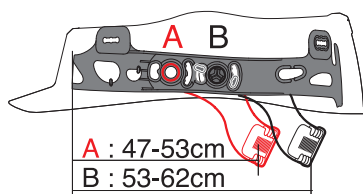


The upper part rotates, and the height becomes half (80mm)

Color



By changing the attachment position
of the headband, wide adjustment



Rotary type shell

Head band size : 47 - 62cm

Package : A4 file size



A4 size
box package



Nonwoven fabric
storage bag

ST#130-EZ Crubo

Material
ABS

Suspension
130-E

Weight
420g



Japanese PAT. No.5908929 / PAT.P : Thailand, Malaysia, Indonesia, Vietnam, China, Korea

○ The following models have different specification models. Please check page 25 for details.
ST#1610V, ST#141V, ST#101, ST#142

ST#141 series



The ST#141 series boasting a sleek and functional form.

There are plenty of color variations.

Transparent peak secures clear & wide visibility.

This is useful for work that requires the user to look up or for working in areas with low ceiling height.

It also cuts ultraviolet rays to protect the user's eyes.

Transparent peak & rain guttering



ST#161-JZV

Suspension **J 1** Weight **445g**

Material **PC** Transparent peak Rain guttering **EPA**

Transparent peak & rain guttering, with ventilation holes



ST#1610-JZV

Suspension **J 1** Weight **445g**

Material **PC** Transparent peak Rain guttering Ventilation hole **EPA**

Standard type with peak

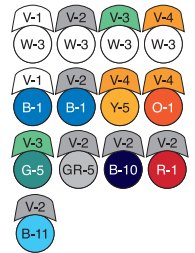


ST#0161-JZ

Suspension **J 3** Weight **390g**

Material **ABS** Rain guttering **EPA**

Transparent peak & wide field of view



ST#141-JZV

Suspension **J 1** Weight **450g**

Material **PC** Transparent peak **EPA**

Large shell type with transparent peak



Large sized (56-65cm)

ST#161L-CZV

Suspension **C** Weight **535g**

Material **PC** Transparent peak Rain guttering **EPA-L**

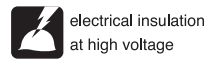
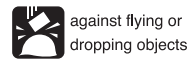
Standard type with peak & ventilation holes



ST#01610-JZ

Suspension **J 3** Weight **390g**

Material **ABS** Rain guttering Ventilation hole **EPA**



Excellent electrical resistance



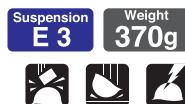
ST#141-JZ
ST#141-GZ
Material **PC** **EPA**



Made from PE, lightweight
& Chemical resistant



ST#0141-EZ
Material **PE** **EPA**



Special FRP made model, without rivet
Can be used in low voltage environment



Paint color

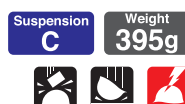


ST#121-CZ



Low voltage (Less than 600V)

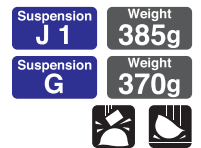
Heat-resistant



Made from lightweight FRP, with peak type



ST#101-JPZ
ST#101-GPZ
Material **FRP** **EPA**
Light weight



Heat-resistant

Made from PC, large shell type with peak



ST#141L-AZ
Material **PC** **EPA-L**



Large sized (56-65cm)

Transparent peak



ST#161/1610-JZV
ST#141-JZV
ST#161L-CZV

Rain guttering



ST#161/1610-JZV
ST#0161/01610-JZ
ST#161L-CZV
ST#121-CZ

Ventilation hole



ST#1610-JZV
ST#01610-JZ

○ The following models have different specification models. Please check page 25 for details.
ST#161V, ST#1610V, ST#141/141V, ST#0161/01610, ST#101

ST#109 series



○ Secure visibility with a flat peak

The flat peak realised an elevation angle of 35 ° (ST # 0169-JZ), which ensures a wide field of vision over the MP type.

Ensures upper visibility during work and increase safety.

○ Abundant variations with various functions

It has a variety of variations depending on the customer's needs, including a super lightweight model weighing only 310g, an "ID helmet" that allows ID cards to be equipped on the helmet, models with transparent peaks, vents and large sized models.

Transparent & flat peak



Standard model made from PC



ST#169-JZV



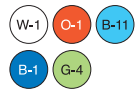
Standard model made from ABS



ST#169-JZ



Ventilation model made from ABS



ST#0169-JZ



ST#0169-EZ



ST#0169-E



Large shell type with flat peak



Large sized (56-65cm)

ST#0169L-FZ



ST#01690-JZ



ST#01690-EZ



ST#01690-E



With ID card case



ST#169-ID





against flying or
dropping objects

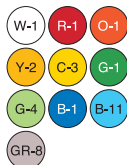


protection in the
events of tumbling
and falling down



electrical insulation
at high voltage

Standard model made from FRP



Heat-resistant



ST#109-JPZ

ST#109-GPZ

Material FRP **EPA**

Light weight

ST#109-EP

Material FRP **EPA**

Light weight

Suspension **J 1** Weight **380g**

Suspension **G** Weight **365g**

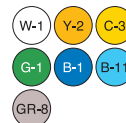


Suspension **E** Weight **345g**

Malaysia DOSH
(JKKP SH 02/07)



Ventilation model made from FRP



Heat-resistant

ST#1090-GPZ

Material FRP **Ventilation hole** **EPA**

Light weight

ST#1090-GP

Material FRP **Ventilation hole** **EPA**

Light weight

Suspension **G** Weight **360g**

Suspension **G** Weight **340g**



Standard model with rain guttering made from lightweight FRP



Heat-resistant



ST#179-JPZ

ST#179-GPZ

Material FRP **Rain guttering** **EPA**

Light weight

Suspension **J 1** Weight **380g**

Suspension **G** Weight **365g**



Ventilation model with rain guttering made from lightweight FRP



Heat-resistant

ST#1790-GPZ

Material FRP **Rain guttering** **Ventilation hole** **EPA**

Light weight

Suspension **G** Weight **365g**

Suspension **G** Weight **365g**



Super lightweight model



Paint color
only

Heat-resistant

ST#159-EPZ

Material FRP **Rain guttering** **EPA**

Super light weight

Suspension **E** Weight **310g**



Transparent peak



ST#169-JZV (W-3/V-1)

○ The following models have different specification models. Please check page 25 for details.
ST#169/169V, ST#0169/01690, ST#109, ST#179

MP style series



○ Traditional MP style

Its round spherical shape effectively releases and disperses shocks, ensures upper visibility during work and increases safety.

○ Short peak, wide field of view

The peak of the helmet is short and grants a wide field of view, allowing the user to notice obstacles and falling objects quickly. It is a compact design that will not collide even in narrow places.

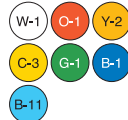
MP style model made from FRP



ST#118



ST#108



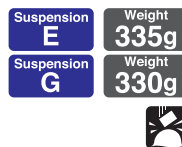
Heat-resistant

Suspension	Weight
E	425g
Suspension	Weight
G	420g
Suspension	Weight
E	395g
Malaysia DOSH (JKKP SH 02/07)	



Heat-resistant

Suspension	Weight
J 1	365g
Suspension	Weight
G	360g
Suspension	Weight
E	335g
Suspension	Weight
G	330g



Shell color is painting. (W-1)

Heat-resistant

Suspension	Weight
E	320g



Metal rivet model that does not fall off. Can be used in environments near heat sources.



ST#118



ST#108



○ Standard model ST#118-DMZ ST#118-EMZ

Material	EPA
FRP	EPA
Material	EPA
FRP	EPA

Heat-resistant

Suspension	Weight
D	425g
Suspension	Weight
E	425g
Suspension	Weight
E	395g



○ Lightweight model ST#108-JMZ

Material	EPA
FRP	EPA

Light weight

Heat-resistant

Suspension	Weight
J 1	370g



Lightweight model with ventilation holes



ST#1080-EPZ

Material	Ventilation hole	EPA
FRP		EPA
Material	Ventilation hole	EPA
FRP		EPA

Light weight

Light weight

Heat-resistant

Suspension	Weight
E	360g
Suspension	Weight
E	335g



○ Lightweight model

Material	EPA
FRP	EPA

Light weight

ST#108-EP

ST#108-GP

Material	EPA
FRP	EPA

Light weight

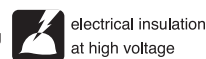
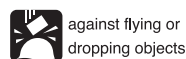


○ Super Lightweight model

ST#108B-EPZ

Material	EPA
FRP	EPA

Super light weight



MP style model made from PC Lightweight model



ST#180-FZK

Material
PC **EPA**



MP style model made from ABS



ST#148-JZ

Material
ABS **EPA**



ST#148-E

Material
ABS **EPA**



MP style with large shell (ABS)



Large sized
(56-65cm)



ST#160-AZ

Material
ABS **EPA-L**



MP style with large shell (FRP)



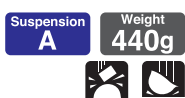
Large sized
(56-65cm)



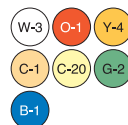
Heat-resistant

ST#150-AMZ

Material
FRP **EPA-L**
Light weight



MP style model made from PC Excellent electrical resistance



ST#142-JZ

ST#142-DZ

ST#142-GZ

Material
PC **EPA**

ST#142-E

Material
PC **EPA**



Made from PE. Excellent electrical resistance & chemical resistance



ST#147-JZ

ST#147-DZ

Material
PE **EPA**

ST#147-E

Material
PE **EPA**



For women and children For disaster prevention and factory tours



Small size
(47-57cm)



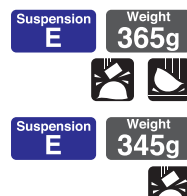
Heat-resistant

ST#198-EPZ

Material
FRP **EPA-S**
Light weight

ST#198-EP

Material
FRP **EPA-S**
Light weight



Two layer structure series



- High ventilation is achieved by its large ventilation holes and two-layer structure.
- Drainage of rainwater is enabled by the internal drainage structure. It also prevents penetrations by sharp objects.
- It secures a wide field of view with its transparent peak. (ST#1830/1330)

Japanese PAT No, 3503947

Excellent Ventilation

The ST#1820/1830-FZ helmet is unique for its superior ventilation and excellent sweat absorption abilities.

A total of 11 ventilation holes are situated in the front portion of the helmet permitting fresh air to pass through the helmet and cool the user's head.

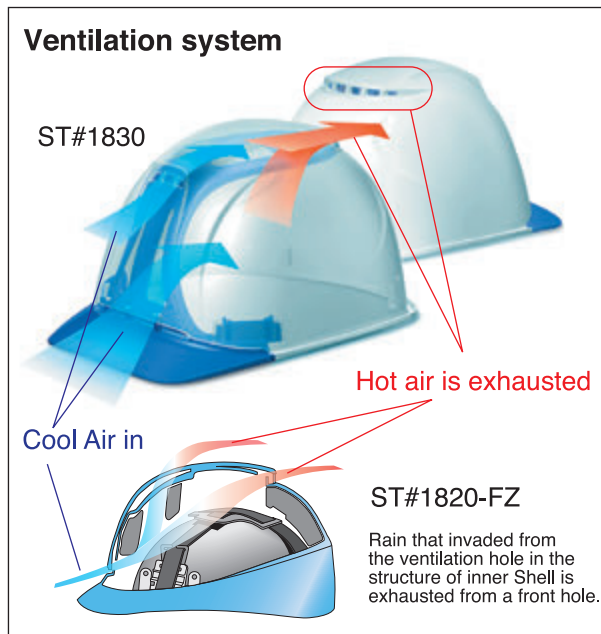
In addition, ventilation holes are located on the top of the helmet (ST#1820 = 6 holes / ST#1830 = 3 holes) and ventilation holes are situated at the back allowing heat to be released effectively.

(ST#1820 = 5 holes / ST#1830 = 6 holes)

In order to achieve this degree of ventilation, the helmet's original double layer structure was created.

The inner shell acts to protect the user from falling objects.

A further unique feature is the inside absorption liner which unlike other helmets is positioned away from the shell to allow and heat or humidity within to be released easily and rapidly.



Wide field of view with transparent peak



ST#1830-JZ

Suspension **J 3** Weight **465g**

Material **ABS/PC**
Shell / Peak

Two layer structure

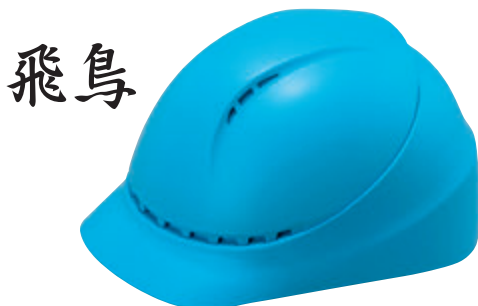
Transparent peak

Rain guttering

EPA



Peakless model For use in narrow spaces



ST#1820-FZ

Suspension **F** Weight **445g**

Material **ABS** Two layer structure **EPA**



ST#1840-FZ

Suspension **T F** Weight **405g**

Material **ABS** Two layer structure **EPA**



Baseball Cap style series



- There is no collar on the side and the back, baseball cap style.
The collar does not touch the headrest, and it is popular with operators and drivers.
- Its lightweight and compact structure is convenient for working in narrow spaces, such as inside vehicles. It is non-bulky, with a compact and simple design.

For operators and drivers



Metal rivet model that does not fall off.
Can be used in environments near heat sources.



ST#114-EMZ

Material **FRP** **EPA**

Heat-resistant

Suspension **E** Weight **410g**



- Lightweight model

ST#104-EPZ

Material **FRP** **EPA**

Light weight

ST#104-EP

Material **FRP** **EPA**

Light weight

- Standard model

ST#114-EPZ

ST#114-GPZ

Material **FRP** **EPA**

ST#114-EP

Material **FRP** **EPA**

Heat-resistant

Suspension **E** Weight **360g**



Suspension **E** Weight **335g**



Heat-resistant

Suspension **E** Weight **405g**

Suspension **G** Weight **405g**



Suspension **E** Weight **385g**



Lightweight with ventilation holes



ST#1040-EP

Material **FRP** **EPA**

Light weight

Heat-resistant

Suspension **E** Weight **335g**



Long peak(50mm)



ST#115-EP

Material **FRP** **EPA**

Heat-resistant

Suspension **E** Weight **385g**



Large sized (56-65cm)



Lightweight & electrical resistance



ST#164-EZ

Material **ABS** **EPA**

ST#164-E

Material **ABS** **EPA**

Suspension **E** Weight **390g**



Suspension **E** Weight **375g**



ST#154-EPZ

Material **FRP** **EPA-L**

Heat-resistant

Suspension **E 3** Weight **425g**



Other Type



Front peak type : ST#185A-F/0185-FZ

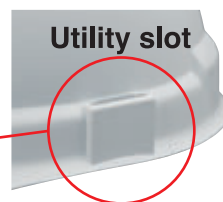
○ Same design, with utility slot / without utility slot

Full brim type : ST#177-EPZ

○ For tunnel construction, offshore work

European standard model : ST#0161-JEN

Front peak, with utility slot



Chin strap

You can choose
Long type or
Standard type

W-1

Y-2 R-1 O-1
B-1 M.O.Q
200pcs

ST#185A-F

Material
ABS

Utility
slot

EPA

Suspension
F

Weight
380g

Malaysia DOSH
(JKKP SH 01/07)

Front peak, without utility slot



W-1 R-1 O-1
Y-2 C-3 G-2
B-1 GR-7

Made from Lightweight FRP, Full brim type



W-1

Heat-resistant

ST#0185-FZ

Material
ABS

EPA

Suspension
F

Weight
375g



ST#177-EPZ

Material
FRP

Light weight

EPA

Suspension
E

Weight
405g



European standard model

EN 397:2012+A1:2012



**Difference from
Japanese standard model
(ST#0161-JZ)**

- Emboss of shell (CE mark etc.)
- Label (for EN standard)
- Chin strap (T-15)

W-1

Y-2 R-1 O-1
B-1 M.O.Q
200pcs



ST#0161-JEN

Material
ABS

Rain
guttering

EPA

-20°C

Suspension
J 3

Weight
390g

EN397

Bump cap



⚠ WARNING! This is not an industrial safety helmet.

For light work only. Bump cap cannot be used for work that requires an industrial safety helmet by law.

Ideal for assembly work of automobiles and electric products

Chinstrap is optional.
(With out ST#143-EN)

ST#143 = VQ-T-16, ST#144 = VP-T-16(No,8)

⚠ WARNING! THIS IS NOT AN INDUSTRIAL SAFETY HELMET.



ST#143-EPA

Material **PE** Ventilation hole **EPA**

ST#143-N

Material **PE** Ventilation hole

Suspension **N** Weight **235g**

Suspension **N** Weight **210g**



ST#144-EPA

Material **PE** Ventilation hole **EPA**

ST#144-N

Material **PE** Ventilation hole

Suspension **N** Weight **205g**

Suspension **N** Weight **180g**



ST#143-SH

Material **PE** Ventilation hole **SH** **EPA**

Suspension **143-SH** Weight **320g**



Opaque white Black

Install in the work cap.

**Inner liner
ST#1451**

Material **PE** Weight **80g**

European standard model

EN 812:1995+A1:2001



M.O.Q 200pcs W-8 Y-2 G-10 B-1 R-1



**Difference from Japanese model
(ST#143-EPA)**

- Sponge pad at the top of the head
- Label (for EN standard)
- Chin strap (VQ-T-16EN/Standard equipment)
- Plate to close the ventilation hole (Half of hole)

ST#143-EN

Material **PE** Ventilation hole **Chin strap** **EPA**

Suspension **N** Weight **300g**

EN812

Guidelines for safety helmet replacement

Below are the guidelines for normal use. If you receive a big impact even once, please replace your helmet with a new one.

This guideline is from the start of use of the helmet. It is not from the date of manufacture.

1) Shell

Made from Plastic
(PC,ABS,PE)

3 years

Made from FRP

5 years

2) Suspension, chin strap, impact absorption liner

1 year

Precautions when ordering replacement parts

- 1) When changing the suspension, you cannot select a type different from the type described on the certification label. That is a violation of standards and will not be covered by our performance guarantee.
- 2) Even with the same type of suspension, the size varies depending on the shell.
When ordering, please inform us of the model number.
- 3) ABS rivet depends on shell color. Please inform us of shell color when ordering.
- 4) The fitting part of chin strap varies depending on the model.
When ordering please inform us the model number.

Suspension (Harness)



Type A



Type B



Type C



Type D



Type E



Type E3



Type E5



Type E6



Type EF



Type EPA-S



Type F



Type G



Type J1



Type J2



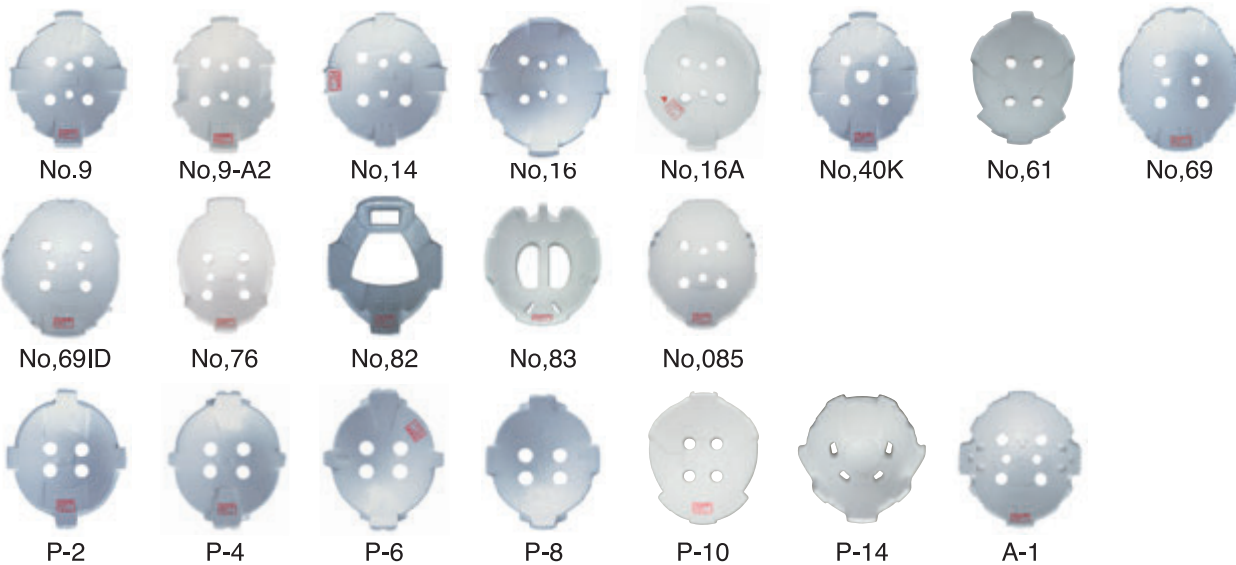
Type J3



Type J5

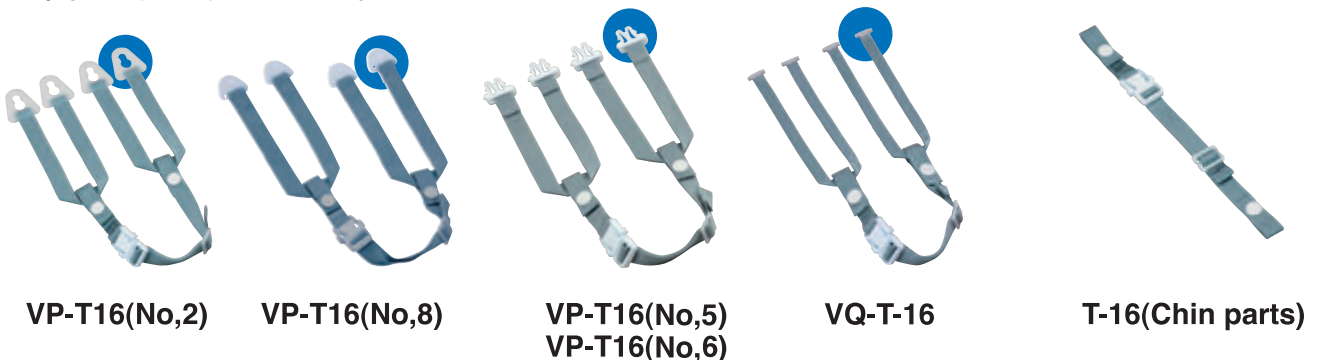
Replacement parts

Impact absorption liner



Chin strap

Chin strap types are different depending on shell type. Please specify the type when you order. Only part (T-16), the chin portion, can be ordered.

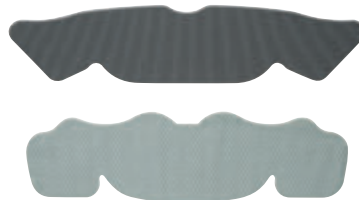


Rivet (For FRP shell)



Please inform us of the shell color code

Sweat band



For EPA head band

For Standard head band

Exchanging built-in face shields

- Please exchange the “face shield unit (lens + guide seat)” for SH face shield model. It is not possible to exchange only the lenses.
- Only lenses can be exchanged for the SD & SE face shield models. (PAT.P)



SH-Face shield unit



SD-Face shield unit



⚠ WARNING!

This unit cannot be installed on models without built-in face shields.

ECO-RACK (Helmet hanger)

made by Recycling plastic(PP)

Color : ● Blue ● Ivory



ST#820NR = ST#822NR × 3pcs. are connected. Total : Helmet 6 pcs.



ST#822NR = Helmet 2 pcs.



ST#821NR
= Helmet 1 pcs.



ST#821NRM
= 821NR + magnet



ST#822NR+821NR connected.
The "ECO-RACK" can increase the number of helmets that are connected and installed.



Size : L



Size : M



Size : S

Hood for heat protection



Welding mask

ST#350-B



Face shield

NS-201

Aluminum frame
Thickness of lens : 2mm (acrylic)



Sun shade hood

ST#1961



Quick dry inner cap

ST#1905



Protection against cold



Cold protection hood

ST#1922



Helmet carry bag



Additional sweat band

ST#1901



Whistle holder

Ear plug holder

ST#670 / G

ST#673-K15

Dropout prevention

BB-130



The helmet doesn't drop & shift to the impact from the back.

Swing guard VS (PAT.P)



Whistle & Ear plug holder



Pen holder / U



LED flasher

ST#651



ID card holder

ST#1931

Please inspect your helmet in accordance with the following checkpoints before use.

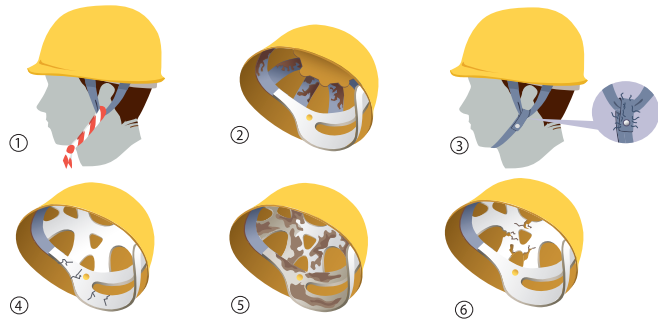
Check list for safety helmet

Check points for replacing the shell (If any of the following conditions are found)



1. if the rim of the shell is chipped or broken
2. if there are any marks or dents from impacts
3. if many scratches are visible
4. if extremely dirty
5. if there are additional holes which are not intended by the manufacturer
6. if glass fibers are visible on the surface of the shell
7. if there are any cracks on the rivets
8. if a noticeable change in color is visible
9. if the shape of the shell changes
10. if anything unusual is found within the fixing parts (tacks, brackets, hooks etc)

Check points for replacing hammock, headband and chinstraps (If any of the following conditions are found)



1. if there has been any modification made by the user
2. if the hammock parts are damaged or extremely dirty
3. if the seam is fraying or fixed parts are stripped off
4. if the headband is damaged, ripped, or out of shape
5. if there is considerable dirt due to oil and perspiration
6. if the hammock is scratched or damaged

Check points for replacing shock absorption lining (If any of the following conditions are found)



1. if the shape changes due to heat, solvents, etc
2. if it is extremely dirty
3. if there are numerous scratches or cracks










Safety Helmet Instructions

For your own safety: Fully observe the following instructions.










- Dispose of the safety helmet once a strong impact has occurred and replace it even if no defect appears visible.
- The helmet may have suffered during the impact and its strength diminished.
- Do not use or store the helmet for prolonged periods in a place where temperatures exceed 50°C (122°F).
- Never use the safety helmet for riding motorbikes or any other vehicles.
- The standard of requirement and function differs from that of motorbikes and other vehicles.
- This helmet meets the standards used only in the industrial sector.
- Wear the safety helmet correctly. Adjust the headband to fit your size and fasten the chinstrap securely.
- If the safety helmet leans or moves easily on your head, full absorption against impact may not be available.
- Avoid contact with benzene, thinners or any other solvents. Such solvents might dissolve the material and the safety properties may be reduced.
- When replacing component parts make sure to replace them with the same model supplied by the same manufacturer to ensure compatibility of materials and maintenance of quality standards.
- When exchanging component parts please inform the supplier of the make and model of the safety helmet.
- The suspension of the helmet (hammock and headband) should be replaced once every year.
- The condition of the suspension may deteriorate without any obvious change in appearance due to time and service conditions.
- Replace the component parts of the suspension the hammock and headband at the same time. Also replace the chinstraps with them.
- Otherwise the quality of the safety helmet may be diminished.
- Never use the safety helmet for storage or stand or sit on the helmet or use it to support weight. There may be a high deterioration in quality.
- Do not paint or mark the helmet.
- Refrain from using paint supplied by a company other than helmet manufacturer when coating is deemed necessary.
- Do not affix labels, stickers or tape to the safety helmet unless they are specifically designed not to damage the integrity of the helmet.

Industrial safety helmet

Warning: Yellow line models are integrated into Type J model and may be discontinued.

Page	Model	Shell material	Weight (g)	 Suspension type	 Liner type	 Transparent peak	 Ventilation hole	 Rain guttering	 Face shield			
7	ST#162V-SD	PC	615	C	P-14	○	—	○	SD	○	○	○
	ST#0162-SD	PE	535	C	P-14	—	—	○	SD	○	○	○
8	ST#1330V-SE	ABS/PC	525	B	No,33	○	○	○	SE	○	○	—
	ST#161VLII-SDC	PC	620	C	P-16	○	—	○	SDC	○	○	○
	ST#162VL-SD	PC	630	C	P-16	○	—	○	SD	○	○	○
	ST#161VJ-SH	PC	535	J 2	—	○	—	○	SH	○	○	○
	ST#161V-SH	PC	535	E 5	P-10	○	—	○	SH	○	○	○
	ST#161VJ-SHGR	PC	535	J 2	—	○	—	○	SHGR	○	○	○
	ST#161V-SHGR	PC	535	E 5	P-10	○	—	○	SHGR	○	○	○
9	ST#1610VJ-SH	PC	535	J 2	—	○	○	○	SH	○	○	—
	ST#1610V-SH	PC	535	E 5	P-10	○	○	○	SH	○	○	—
	ST#1161J-SH	ABS	470	J 2	—	—	—	○	SH	○	○	○
	ST#1161-SH	ABS	460	E 5	P-10	—	—	○	SH	○	○	○
	ST#141VJ-SH	PC	535	J 2	—	○	—	—	SH	○	○	○
	ST#141V-SH	PC	535	E 5	P-10	○	—	—	SH	○	○	○
	ST#101J-SH	FRP(LW)	460	J 2	—	—	—	—	SH	○	○	—
	ST#101-SH	FRP(LW)	460	E 5	P-10	—	—	—	SH	○	○	—
	ST#142J-SH	PC	495	J 2	—	—	—	—	SH	○	○	○
	ST#142-SH	PC	485	E 5	P-10	—	—	—	SH	○	○	○
10	ST#108J-SH	FRP(LW)	455	J 2	—	—	—	—	SH	○	○	—
	ST#177-SH	FRP(LW)	485	E 3	P-10	—	—	—	SH	○	○	—
	ST#189-SH	PC	495	E 5	P-10	—	—	○	SH	○	○	○
	ST#130-EZ	ABS	420	130-E	No,30	—	—	—	—	○	○	—
11	ST#161-JZV	PC	445	J 1	—	○	—	○	—	○	○	○
	ST#161-EZV	PC	430	E 3	No,61	○	—	○	—	○	○	○
	ST#141-JZV	PC	450	J 1	—	○	—	—	—	○	○	○
	ST#141-EZV	PC	435	E	P-6	○	—	—	—	○	○	○
	ST#1610-JZV	PC	445	J 1	—	○	○	○	—	○	○	—
	ST#1610-EZV	PC	430	E 3	No,61	○	○	○	—	○	○	—
	ST#161L-CZV	PC	535	C	P-16	○	—	○	—	○	○	○
	ST#0161-JZ	ABS	390	J 3	—	—	—	○	—	○	○	○
	ST#0161-EZ	ABS	375	E F	No,61	—	—	○	—	○	○	○
	ST#01610-JZ	ABS	390	J 3	—	—	○	○	—	○	○	—
12	ST#141-JZ	PC	450	J 1	—	—	—	—	—	○	○	○
	ST#141-GZ	PC	430	G	P-6	—	—	—	—	○	○	○
	ST#141-EZ	PC	435	E	P-6	—	—	—	—	○	○	○
	ST#101-JPZ	FRP(LW)	385	J 1	—	—	—	—	—	○	○	—
	ST#101-GPZ	FRP(LW)	370	G	P-4	—	—	—	—	○	○	—
	ST#101-EPZ	FRP(LW)	375	E	P-4	—	—	—	—	○	○	—
	ST#0141-EZ	PE	370	E 3	No,6	—	—	—	—	○	○	—
	ST#141L-AZ	PC	460	A	No,16	—	—	—	—	○	○	○
13	ST#121-CZ	FRP(SMC)	395	C	No,61	—	—	○	—	○	○	△
	ST#169-JZV	PC	425	J 5	—	○	—	○	—	○	○	○
	ST#169-EZV	PC	410	E F	No,69	○	—	○	—	○	○	○
	ST#169-JZ	PC	425	J 5	—	—	—	○	—	○	○	—
	ST#169-FZ	PC	405	F	No,69	—	—	○	—	○	○	○
	ST#0169-JZ	ABS	380	J 5	—	—	—	○	—	○	○	○
	ST#0169-FZ	ABS	370	F	No,69	—	—	○	—	○	○	○
	ST#0169-EZ	ABS	380	E F	No,69	—	—	○	—	○	○	○
	ST#0169-E	ABS	355	E 6	—	—	—	○	—	○	—	○
	ST#01690-JZ	ABS	390	J 5	—	—	○	○	—	○	○	—
	ST#01690-FZ	ABS	365	F	A-1	—	○	○	—	○	○	—
	ST#01690-EZ	ABS	380	E F	A-1	—	○	○	—	○	○	—
	ST#01690-E	ABS	355	E 6	—	—	○	○	—	○	—	○
	ST#0169L-FZ	ABS	415	F	No,16-A	—	—	○	—	○	○	○
14	ST#169-ID	PC	455	F	No,69ID	—	—	○	—	○	○	○
	ST#109-JPZ	FRP(LW)	380	J 1	—	—	—	—	—	○	○	—
	ST#109-GPZ	FRP(LW)	365	G	P-2	—	—	—	—	○	○	—
	ST#109-EPZ	FRP(LW)	370	E	P-2	—	—	—	—	○	○	—
	ST#109-EP	FRP(LW)	345	E	—	—	—	—	—	○	○	—
	ST#1090-GPZ	FRP(LW)	360	G	A-1	—	○	—	—	○	○	—
	ST#1090-GP	FRP(LW)	340	G	—	—	○	—	—	○	—	—
	ST#179-JPZ	FRP(LW)	380	J 1	—	—	—	○	—	○	○	—
	ST#179-GPZ	FRP(LW)	365	G	P-2	—	—	○	—	○	○	—

Warning: Yellow line models are integrated into Type J model and may be discontinued.

Page	Model	Shell material	Weight (g)									
14	ST#179-EPZ	FRP(LW)	370	E	P-2	—	—	○	—	○	○	—
	ST#1790-GPZ	FRP(LW)	365	G	A-1	—	○	○	—	○	○	—
	ST#159-EPZ	FRP(S-LW)	310	E	P-2	—	—	—	—	○	○	—
15	ST#118-EPZ	FRP	425	E	No,9	—	—	—	—	○	○	—
	ST#118-GPZ	FRP	420	G	No,9	—	—	—	—	○	○	—
	ST#118-EP	FRP	395	E	—	—	—	—	—	○	—	—
	ST#108-JPZ	FRP(LW)	365	J 1	—	—	—	—	—	○	○	—
	ST#108-GPZ	FRP(LW)	360	G	No,9	—	—	—	—	○	○	—
	ST#108-EPZ	FRP(LW)	360	E	No,9	—	—	—	—	○	○	—
	ST#108-EP	FRP(LW)	335	E	—	—	—	—	—	○	—	—
	ST#108-GP	FRP(LW)	330	G	—	—	—	—	—	○	—	—
	ST#118-DMZ	FRP	425	D	No,9	—	—	—	—	○	○	—
	ST#118-EMZ	FRP	425	E	No,9	—	—	—	—	○	○	—
	ST#118-EM	FRP	395	E	—	—	—	—	—	○	—	—
	ST#108-JMZ	FRP(LW)	370	J 1	—	—	—	—	—	○	○	—
	ST#108B-EPZ	FRP(S-LW)	320	E	No,9-A2	—	—	—	—	○	○	—
	ST#1080-EPZ	FRP(LW)	360	E	No,9-A2	—	○	—	—	○	○	—
	ST#1080-EP	FRP(LW)	335	E	—	—	○	—	—	○	—	—
16	ST#180-FZK	PC	370	F	No,80K	—	—	—	—	○	○	○
	ST#142-JZ	PC	420	J 1	—	—	—	—	—	○	○	○
	ST#142-DZ	PC	405	D	No,9	—	—	—	—	○	○	○
	ST#142-GZ	PC	405	G	No,9	—	—	—	—	○	○	○
	ST#142-EZ	PC	410	E 3	No,9	—	—	—	—	○	○	○
	ST#142-E	PC	385	E 3	—	—	—	—	—	○	—	○
	ST#148-JZ	ABS	385	J 1	—	—	—	—	—	○	○	○
	ST#148-EZ	ABS	380	E 3	No,9	—	—	—	—	○	○	○
	ST#148-E	ABS	340	E 3	—	—	—	—	—	○	○	○
	ST#147-JZ	PE	415	J 1	—	—	—	—	—	○	○	○
	ST#147-DZ	PE	395	D	No,9	—	—	—	—	○	○	○
	ST#147-EZ	PE	395	E	No,9	—	—	—	—	○	○	○
	ST#147-E	PE	370	E	—	—	—	—	—	○	—	○
	ST#160-AZ	ABS	465	A	No,16	—	—	—	—	○	○	○
	ST#150-AMZ	FRP(LW)	440	A	No,16-C	—	—	—	—	○	○	—
17	ST#198-EPZ	FRP(LW)	365	E	P-6	—	—	—	—	○	○	—
	ST#198-EP	FRP(LW)	345	E	—	—	—	—	—	○	—	—
	ST#1830-JZ	ABS/PC	465	J 3	—	○	○	○	—	○	○	—
	ST#1830-FZ	ABS/PC	445	F	No,83	○	○	○	—	○	○	—
	ST#1820-FZ	ABS	445	F	No,82	—	○	—	—	○	○	—
18	ST#1840-FZ	ABS	405	TF	No,84	—	○	—	—	○	○	—
	ST#104-EPZ	FRP(LW)	360	E	No,14	—	—	—	—	○	○	—
	ST#104-EP	FRP(LW)	335	E	—	—	—	—	—	○	○	—
	ST#114-EPZ	FRP	405	E	No,14	—	—	—	—	○	○	—
	ST#114-GPZ	FRP	405	G	No,14	—	—	—	—	○	○	—
	ST#114-EP	FRP	385	E	—	—	—	—	—	○	—	—
	ST#114-EMZ	FRP	410	E	No,14	—	—	—	—	○	○	—
	ST#1040-EP	FRP(LW)	335	E	—	—	○	—	—	○	—	—
	ST#115-EP	FRP	385	E	—	—	—	—	—	○	—	—
	ST#164-EZ	ABS	390	E	No,64	—	—	—	—	○	○	○
19	ST#164-E	ABS	375	E	—	—	—	—	—	○	—	○
	ST#154-EPZ	FRP	425	E 3	P-6	—	—	—	—	○	○	—
	ST#185A-F	ABS	380	F	—	—	—	—	—	○	—	—
	ST#0185-FZ	ABS	375	F	No,085	—	—	—	—	○	○	○
	ST#177-EPZ	FRP(LW)	405	E	P-2	—	—	—	—	○	○	—
	ST#0161-JEN	ABS	390	J 3	—	—	—	○	—	EN397:2012+A1:2012		○

Bump cap

20	ST#143-EPA	PE	235	N	—	—	○	—	—	No standard		
	ST#143-N	PE	210	N	—	—	○	—	—			
	ST#143-SH	PE	320	143-SH	—	—	○	—	SH			
	ST#144-EPA	PE	205	N	—	—	○	—	—			
	ST#144-N	PE	180	N	—	—	○	—	—			
	ST#1451	PE	80	—	—	—	○	—	—			
	ST#143-EN	PE	300	N	—	—	○	—	—	EN812:1995+A1:2001		

* Weight is weight of EPA buckle model. For the pin lock (standard buckle) model, it is -15g.

* The electrical resistance of ST#121 - CZ is 600V or less.

Manufacturer

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