

ASANO

Stainless Steel Product Catalog



All Stainless Steel Products

Stainless Steel Product Catalog

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Pursuing the possibilities of stainless steel for 70 years

In a wide range of fields, such as ocean and fishery, and construction, Asano Metal Industry has pursued the possibilities of stainless steel with a focus on durability, weather resistance, and beauty for decades.

In pursuit of this, we produced stainless steel products that fully exploit the functionality and beauty of stainless steel. These products include fishing gear, handrails, wire tensioners, playground equipment, and snow melting sprinkler system nozzles, which are highly valued in each field.

Embracing the Past, and the Future

ASANO wants to be thought of as a company that is considerate of our customers and continues to develop in new ways. This is why we seek to provide answers to various professional needs with our safe, reliable and advanced products, as well as our quick, courteous, and steady delivery systems.



From sea to land

We respond to the needs of the present age with proven technology nurtured by our long history.



1892	Founded in Go-no-cho, Sanjo, Niigata, Japan, the company first manufactured wooden articles for two generations.
August, 1944	Established Asano Metal Industry Company (capitalized at 145,000 yen) at 301 Yokka-machi, Sanjo. Started manufacturing pig iron castings.
June, 1960	Established a new pig iron casting factory at 1135 Shinbo, Sanjo. Began manufacturing two kinds of malleable cast iron at 301 Yokka-machi, Sanjo.
Nov., 1967	Increased the capital to 3.5 million yen.
July, 1968	Discontinued manufacturing pig iron casting. Started to concentrate on malleable iron casting and expanding the business. Established a new factory at Tsukioka, Sanjo, and shifted the former factories from Shinbo and Yokka-machi. Renewed all equipment to improve precision and quality control.
June, 1969	Increased the capital to 7 million yen. Established a new stainless casting factory.
October, 1975	Increased the capital to 14 million yen.
April, 1977	Started manufacture of fishing gear and ship equipment. Started direct marketing all over Japan.
October, 1981	Discontinued malleable iron casting to concentrate on stainless steel to expand production.
June, 1984	Enlarged the factory and introduced the latest equipment to accept massive orders of stainless steel.
January, 1986	Started to manufacture all stainless steel snow melting sprinkler nozzles.
October, 1987	Entered into production of Physical Education equipment. Introduced numerous products to the marketplace, including patented inventions like tennis net posts.
March, 1988	Improved automatic sand process equipment to streamline the stainless steel production with the aim of accepting more orders.
1990	Introduced the automatic warehousing system to streamline delivery, inventory, and logistics management. Renewed equipment to further improve quality.
1991	Introduced a CAD system to respond to the diverse needs of the age and speed up development. Increased the capital to 20 million yen.
1995	Started research of aluminum casting to meet diverse needs.
1998	Constructed the present head office and warehouse to expand the business, and conducted streamlining.
1999	Introduced a new computer system to enhance our core business. Introduced a new CAD system to strengthen planning and development.
2000	Introduced a new logistic system to accept small lot production in great varieties.
March, 2001	Introduced high frequency electric furnaces: one 350 kg and one 150 kg.
May, 2002	Introduced 3D CAD, which helped streamline development processes and improve designability.
July, 2004	Introduced a 3D modeling machine to model designs and simulate basic structures.
2006	Published our website.
Dec., 2007	Extended the automatic warehousing system to further streamline logistic management.
2008	Started to accept quotes and inquiries through our website to speed up provision of information.
Sep., 2011	Launched the English version of our website to gain overseas business development.
July, 2013	Fully updated our website, and started to provide detailed product information, such as installation manuals, instruction manuals, and referential design price tables.





● Company overview

Company name	Asano Metal Industry Co., Ltd.
Representative	Yoshiki Asano, CEO
Head office	2866 Tsukioka, Sanjo-shi, Niigata, 955-0803, Japan TEL: +81-256-33-0101 FAX: +81-256-33-0096 http://www.asano-metal.co.jp/en/
Capital	20 million yen
Banks	The Daishi bank, Sanjo branch Sanjo shinkin bank, Honjyouji branch
Building site of the head office	11,000 m ²
Building site	Office: 925 m ² Warehouse: 1,743 m ² Stainless steel factory: 1,600 m ² Finishing factory: 169 m ²
Business items	Cast stainless steel Lost-wax articles Acid resistant steel Heat resistant steel All-stainless steel products Fishing gear / ship equipment Rigging hardware Wire rigging hardware Handrail and handrail brackets Wall greening wire bracket Tennis articles Stainless playground equipment Snow melting sprinkler system nozzles Other

◎Casting

☐ Stainless steel ☐ Acid resistant steel [SCS13.14.16]

☐ Heat resistant steel [SCH12.13.15.22]

From raw materials to finished articles, including processing and grinding work, we can cast various types of metals for you at our stainless foundry.

● Main Equipment

• High frequency electric furnace: 2 (350 kg furnace, and 150 kg furnace)	• Balancer: 1
• Analyzer: 1 (count back)	• Sand-mold drying furnace: 1
• Sand processing equipment: 1 (60 tons per month)	• Automatic high-rise warehouse equipment: 4
• Shot blasting: 2 (2 tons, 1 ton)	• Snow melting nozzle test device: 1
• Crane blasting: 2 (2.5 tons, 2 tons)	• Fire hydrant pressure test device: 1
• Heat treatment furnace (solution heat treatment): 1 (40 tons per month)	• 2D CAD
• Press correcting machine: 1 (50 tons)	• 3D CAD
• Welding machines, 300 A: 3	• 3D molding machine: 1
• Molding equipment: 1	• Digital microscope: 1
• Rockwell hardness testing device: 1	• Saline spray test device
• Universal testing equipment	• Wire swaging equipment: 1
• Dry sand-mold molding equipment: 1	



Digital microscope



Rockwell hardness test device

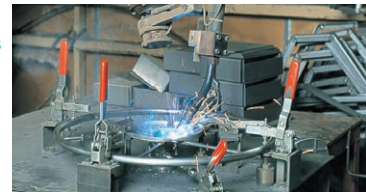
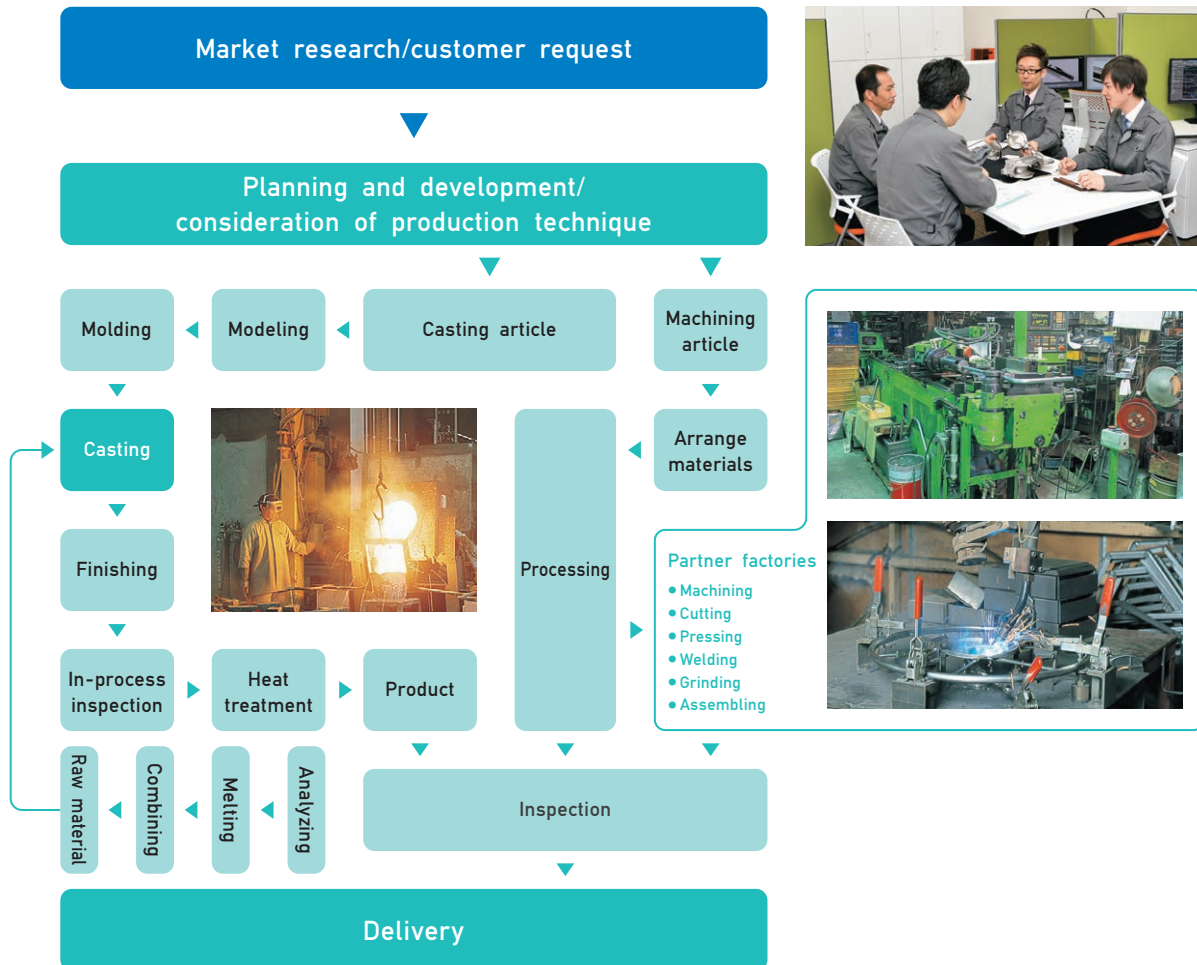


3D molding machine

Our product development can meet your needs. We established a seamless system from design to production.

Our products are not limited to common articles. We anticipate the needs of customers in advance, and develop products to meet those needs. When general products leave something to be desired, we tackle the development of new products with our seamless system of product planning, design and production.

This system can flexibly support your every request. Our product department has staff experienced in production management and manufacturing. In addition, we have partnerships with factories with advanced technologies in fields such as machining and pressing.



Automatic warehouse



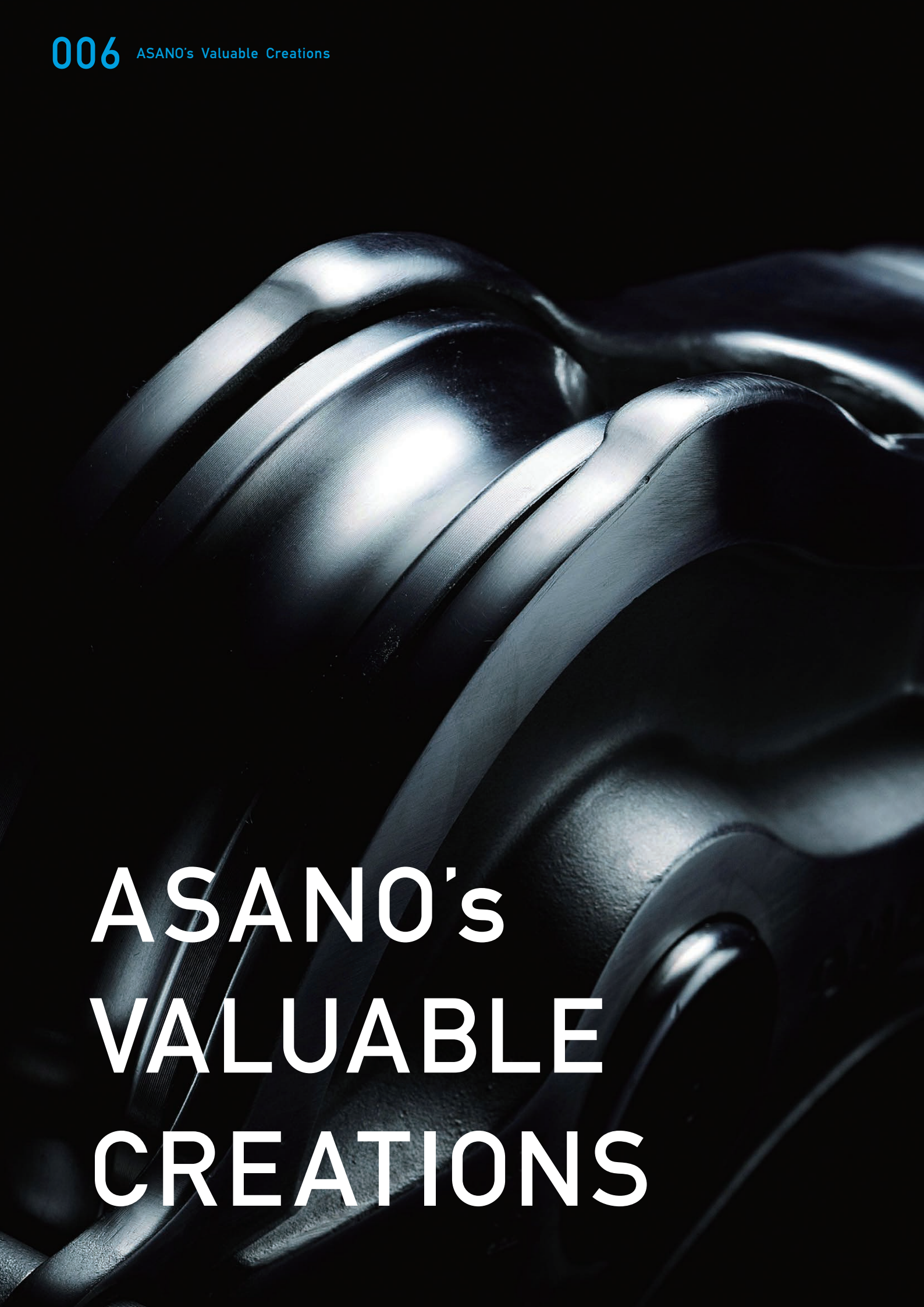
Saline spray test device



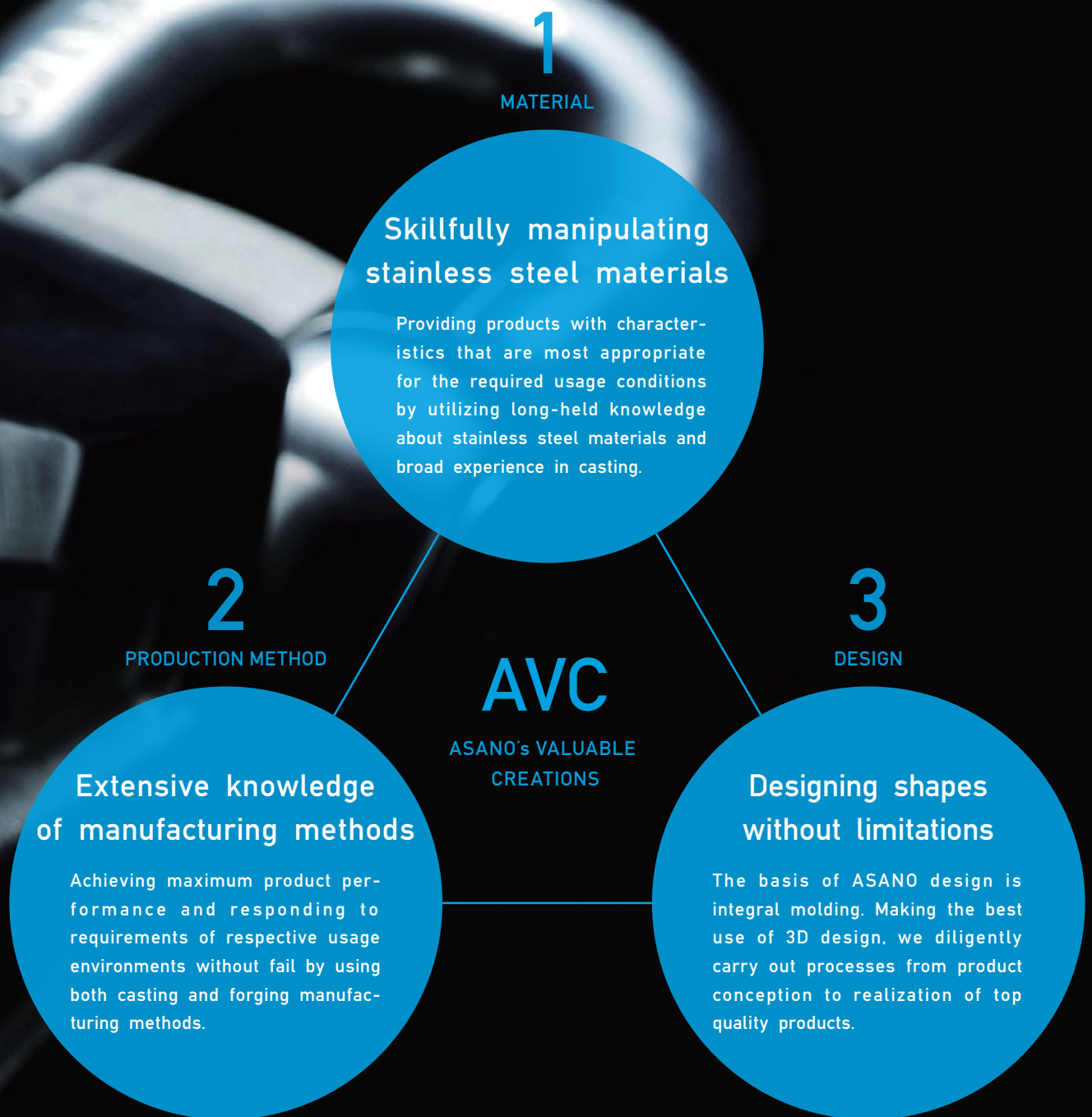
Optical analyzer



Universal testing equipment



ASANO's VALUABLE CREATIONS



Producing stainless steel products that can solve various problems.

1 _ MATERIAL

Diversified range of stainless steel materials

There are various types of stainless steel including "SUS304", which can be used for a variety of purposes, and "SUS316", which is more corrosion resistant than "SUS304". Each type has its own unique characteristics. Furthermore, the characteristics of stainless steel such as strength and corrosion resistance change depending on the percentage of ingredient components and the method of heat treatment. In other words, even though we simply call it stainless steel, there are a variety of types of it.

Material characteristics crafted from our experience

The material characteristics of stainless steel are arranged to produce variations with specific characteristics such as high resistance to seawater, high degree of hardness, etc. With broad knowledge of and experience in stainless steel materials that have been nurtured in our casting factory over a long period of time, ASANO has a high level technical background enabling selection of optimum materials and development of products in accordance with the environments in which they are used and with the methods with which they are used.

Carefully evaluated materials and combinations

Our experience-based technology allows the products, such as the Auto Shackle (P137), which should be small and light enough to fit into the palm of a hand, to be surprisingly strong in relation to their respective sizes. Our technology has also enabled commercialization of our products, such as the Purse Snap Shackle (P141), which is comprised of at least two parts: one part of which must be strong and the other part of which must be corrosion resistant, and each part of which is composed of the optimum stainless steel material.

Skillfully manipulating stainless steel materials

2 _ PRODUCTION METHOD

Possibilities created by casting

Casting is a processing method in which metal is heated to a temperature beyond its boiling point in order to liquefy it, the liquefied metal is poured into a mold, and then the metal is cooled so that it changes from a liquid to a solid and into the desired shape. The strength of products produced by the casting method is inferior to that of the products created by the forging method, which will be described later. However, one advantage of casting is that metal can be formed into a desired shape. In other words, this method enables creation of products via integral molding that allows for relatively freer formation of product shapes.

What ASANO has pursued

By utilizing the advantages of casting, which makes it easier to produce rounded items, we created products such as fishing gear which, thanks to its shape, has gentle contact with rope and fishing nets, and suppresses wear of both. Furthermore, casting enables production of product shapes of differing thicknesses: the material can be made thick only where load may be applied, otherwise thinner. Casting enables very strong lightweight products to be produced at reasonable costs. The advantage of casting lies in freer formation of product shapes that is derived from integral molding. We carry out a significant amount of casting to produce our products.

What forging is good for

On the other hand, the forging method incorporates the technique of pressurizing metal (using methods such as hammering) to reduce cavities in it, miniaturize its crystals, and to align the directions of the crystals to improve its strength before the metal is formed into the desired shape. This method is effective for products that are required to be strong. However, it has a disadvantage: That is, unlike the casting method, it is costly to form the metal into the shape suitable for the desired purpose.

Extensive knowledge of manufacturing methods

3 _ DESIGN

Optimum shapes and high performance derived from 3D design

Using the 3D design technique, ASANO implements procedures from designing shapes suitable for the intended purposes to calculating theoretical strength values. Then, ASANO creates the product by checking its shape against 3D print samples. To produce superior products, we improve and refine product design while repeatedly embodying ideas. Through this approach, we work to develop products that always deliver performance that is beyond expectations.

Aiming to create "organic forms"

Metal projects a cold image. By using metal, we produce metal products with shapes that can fit into the palm of your hand. By this, we always aim to produce metal products that are not perceived as "tools" but as your "partners" with ideal usability and sophisticated quality. Every part of ASANO products represents our commitment to details that only we, who have been continuously pursuing the potential of stainless steel, can achieve.

Functional design

When creating a product from scratch that optimally meets the actual usage conditions, we need to think of numerous product forms in order to create a product that exhibits optimal performance. The greatest advantage of cast products, which ASANO is highly skilled at producing, is a high degree of design flexibility that is derived from integral molding. Limitless free conceptions have enabled us to produce products with new designs and functions that have never existed before.

Designing shapes without limitations

Products that make a difference

ASANO utilizes expertise in stainless steel materials and produces products with characteristics that are most suitable for the intended purposes of the products. This enables ASANO products to improve and enhance work efficiency of users and greatly contribute to achieving the required results.



© Snap Hook: 1SH (P134)

Contrary to its appearance, this metal fitting, which can be held in the palm of a hand, has a high working load limit of 1.3 t. Every part of the metal fitting represents our diligent approach to manufacturing.



Combination to utilize product advantages

ASANO is particularly strong in the area of free shape forming achieved by casting, which ASANO has a long history of practicing. In addition, we use forged parts for products that are required to have a high degree of strength. For example, swivels are important components of block products that are to be suspended from a height. We adopt forged swivels with the required degree of strength for this purpose. Regarding fishing gear, in many cases strength and operability have a direct effect on fishing results. Therefore, we need to produce products that respond unfailingly to the severe demands of fishing equipment. The combination of the different characteristics of casting and forging allows us to produce products that satisfy the following conflicting requirements: "downsized", "light-weight", and "high degree of strength".



Products created from freewheel thinking

© Auto Shackle (P137)

The insertion of a Marline spike or driver into the hole in the center of the main body releases the gate. Handling of the Auto Shackle in ways other than that mentioned above does not release the gate, the shape of the product does not enable the gate to be easily released even when something hits the product under the sea. Creating this shape was difficult since the requirement was not easy to meet. However, we were able to market the first commercialized Auto Shackle in the world. Since then, the product has enjoyed enduring popularity. The product that fits into the palm of your hand is easy to operate.

© Tough Hanging Roller Type T II (P28)

Unlike conventional blocks, the main body of the Tough Hanging Roller II has an asymmetrical design that allows the metal fitting to pass through between the sheave and the main body without getting caught. Furthermore, the main body covers the edges of the sheave to prevent a rope from getting caught between the main body and the sheave.



How to read this catalog

How to find a product

1 Find by category You can find a product by looking at the category index and product icons on the right edge of this catalog.

Block 033

Block

Rigging Hardware

Ship Equipment

Fishing Gear

Wire Rope

Product category

Stainless Steel Hardware

- Block
- Rigging Hardware
- Ship Equipment
- Fishing Gear
- Wire Rope

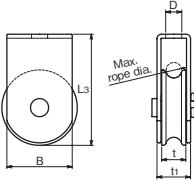
Product icon

2 Find by photo
You can find a page by photo.
[Photo index](#) P012

3 Find by item number
You can find the page by an item number.
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How to read the product information

Sanma Block without Top



No.	Size (sheave dia) (mm)	Max. rope dia. (mm)	D (mm)	L3 (mm)	B (mm)	t (mm)	t1 (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10040	50	14	12.8	75	45	20	29	360	300	\$43.50
AK10041	75	16	16	110	65	24	33	820	550	\$78.30
AK10042	100	22	19.2	132	90	28	37	1,330	950	\$108.95

* Material: SUS304, Sheave = SCS13 (equivalent to SUS304)

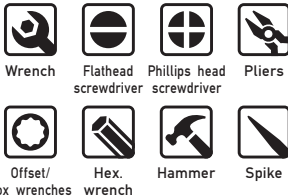


These marks indicate the use of special stainless steel.

Dimensional drawing

Tools used

These marks indicate the tools required to use the product.



Product name Photo Item number Product specification Describes materials used and precautions.

Material description

● Casting articles made of stainless steel

Material	Corresponding materials	Characteristics and usage
SCS1	SUS410	Higher in strength than SCS13, but lower in corrosion resistance. Used for rollers and machine parts.
SCS2	SUS420J1	Higher in hardness than SCS1, due to tempering. Used for paper production and water purification systems.
SCS11	SUS329J1	Dual-phase steel. Excellent in abrasion resistance and corrosion resistance. Used for sea water pumps and other industrial parts.
SCS13	SUS304	The most widely used material. Used for valves, pumps, construction materials, and other industrial parts.
SCS14	SUS316	Higher in corrosion resistance than SCS13. Used for valves, pumps, food processing machines, and other industrial parts.
SCS16	SUS316L	Higher in intergranular corrosion resistance than SCS14. Used for chemical and medical machine parts.
SCS18	SUS310S	Excellent in hot corrosion resistance. Used for chemical machine parts.
SCS24	SUS630	High strength, excellent in abrasion resistance. Corrosion resistant. Used for paper production parts and machine parts.

● Stainless heat-resistant steel

Material	Corresponding materials	Characteristics and usage
SCH2	—	Used for fire grates of incinerators.
SCH11	—	Used for fire grates of incinerators, fittings for kilns, and industrial furnace parts.
SCH13	(SUS309S)	General heat-resistance steel. Used for furnace floors, fittings in furnaces, and industrial furnace parts.
SCH22	(SUS310S)	Excellent in heat resistance and high thermal resistance. Used for heat resistant rollers, furnace stands, skid rails, and crematory furnace parts.

Precautions for products

- ① Products listed in this catalog are for business, not domestic, use. Please handle carefully. Use the products for the intended purposes only. Otherwise, unexpected accidents may result.
- ② Please note that there are some tolerances in the values of the dimensions indicated for each product.
- ③ Do not exceed the working load. The working load in this catalog indicates the load for safety usage. Do not give sudden shocks to the products, as this may deform or break them.
- ④ Do not use the products to support human lives, such as suspending human bodies or using over head.
- ⑤ If there are abnormalities, including deformations, cracks, or wearing, stop use of the products immediately and replace.
- ⑥ Loose screws and defective springs may cause accidents. Please check the products before use.
- ⑦ Use the products properly. Excessive twisting and bending may reduce the strength, and may lead to breakage.
- ⑧ Do not modify the products by welding or deforming. Otherwise, unexpected accidents may result.
- ⑨ Avoid prolonged contact of stainless products with dissimilar metals, as this may lead to corrosion.
- ⑩ Do not use the products in environments exposed to acids, alkalis, or sudden temperature changes, as those may reduce the strength of the products.

Photo index [Block Rigging Hardware]

Block					
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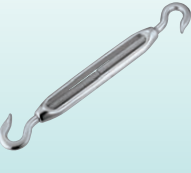
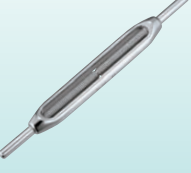
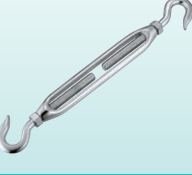
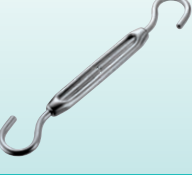
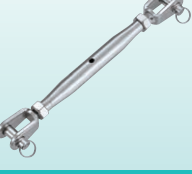
					
D-Shackle with Square Head Pin 053	D-Shackle with Square Head Pin (Forged) 053	Long D-Shackle with Square Head Pin 054	Bow Shackle with Square Head Pin 054	D-Shackle with Square Head Pin & Cotter Pin 054	D-Shackle with Hex Head Pin & Cotter Pin 055
					
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Photo index [Rigging Hardware]

					
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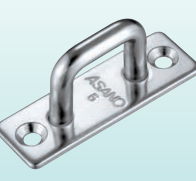
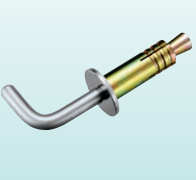
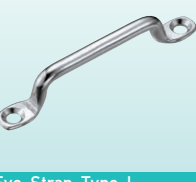
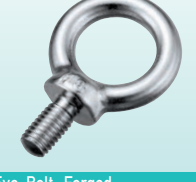
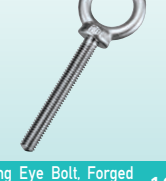
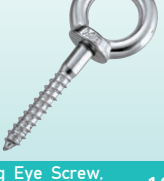
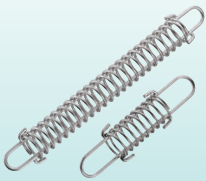
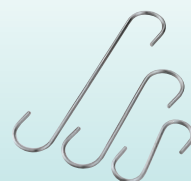
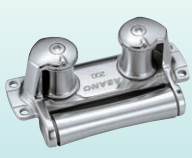
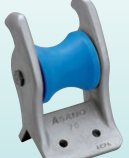
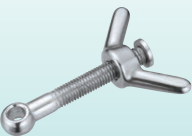
					
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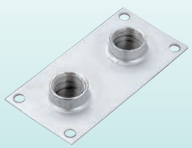
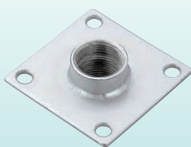
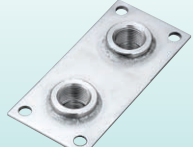
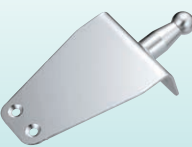
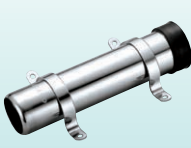
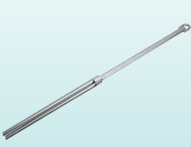
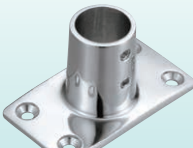
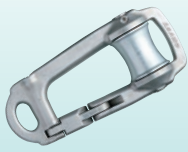
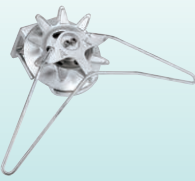
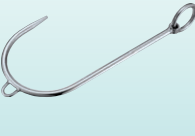
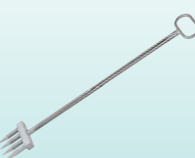
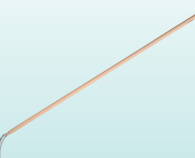
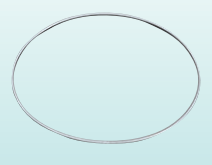
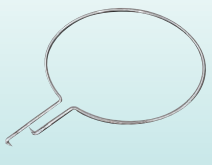
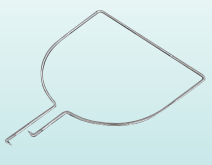
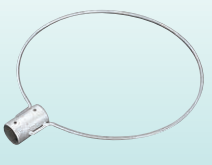
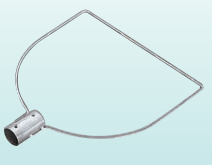
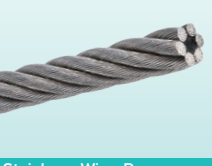
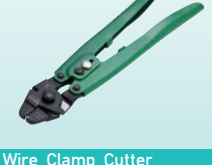
					
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Trusted technology that responds
to professional needs

Stainless Steel Hardware



022 Block



046 Rigging Hardware



106 Ship Equipment



130 Fishing Gear



162 Wire Rope

Block

Rigging Hardware

Ship Equipment

Fishing Gear

Wire Rope



Block

Stronger. More beautiful.
ASANO blocks continue
to evolve.

ASANO brand hardware products fully exploit the merit of stainless steel casting. We continue to develop and improve our products around a concept : "Stronger, easier to use, and more beautiful. In addition, reduce costs." This concept fully applies to our stainless blocks. Their high strength, low weight design creates functional beauty in simplicity and strength. ASANO is always watching out for new opportunities of further development.





Block

Rigging Hardware

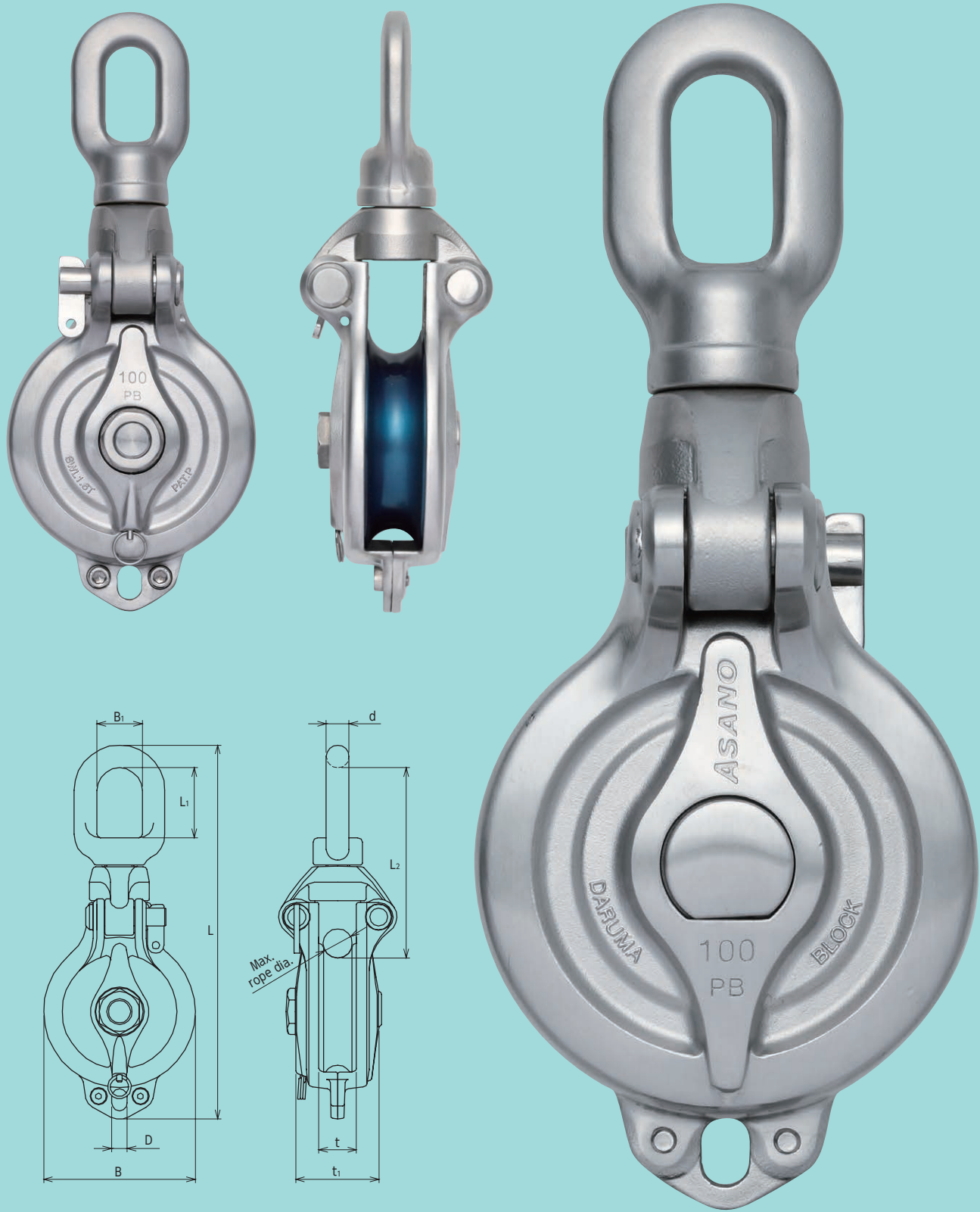
Ship Equipment

Fishing Gear

Wire Rope



Daruma Block Type PB, Single Sheave (with Bearing)

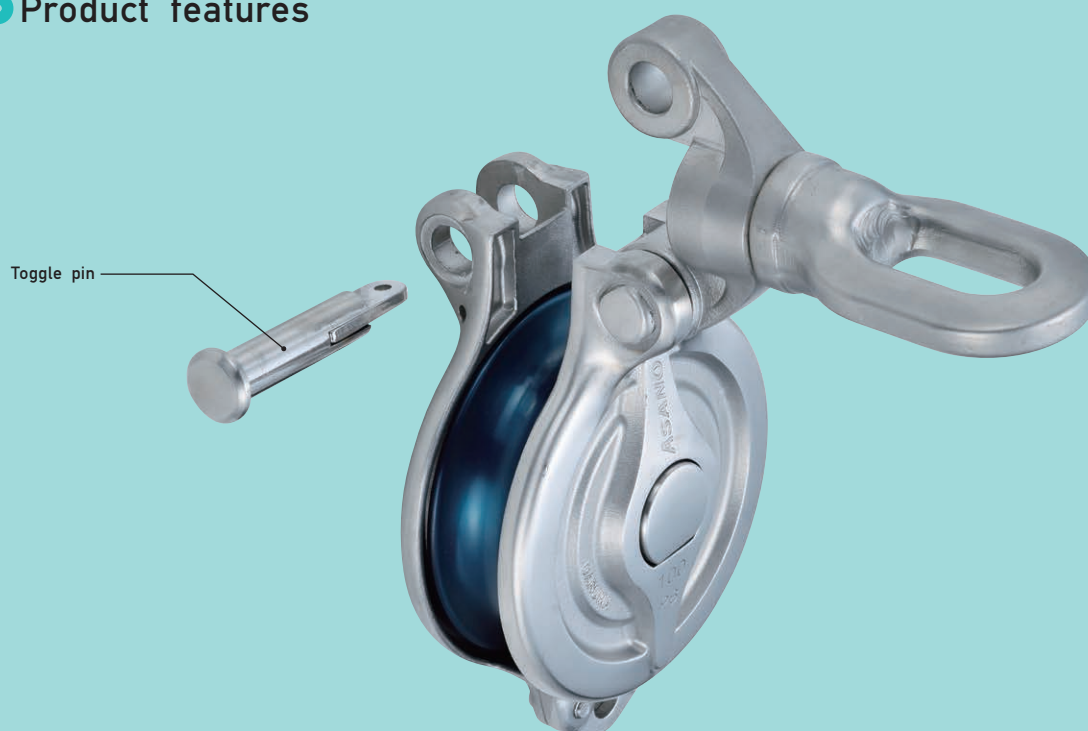


No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	D (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK1691	100	1	22	13	268	44	134	110	22	10.5	25	56	5	6304	2.6	1.6	\$419.00

* Material: SCS14 (equivalent to SUS316), Sheave = SCS1 (equivalent to SUS410), Sheave pin/swivel/swivel pin/toggle pin/stopper pin = SUS304
* The working load does not apply to the becket part. *The working load conforms to the working load of the bearings.
* This product contains two steel bearings with rubber seals.

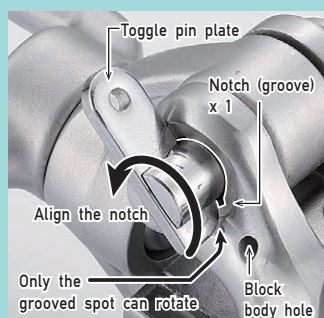


Product features



Measures against toggle pin release

- The toggle pin can be removed only when the toggle pin plate is aligned with the notch (groove). This is to prevent the unintended release of the toggle pin.
- Vibrations may cause unintentional position alignment. To prevent this, bind the holes on the toggle pin plate and block body with a wire.

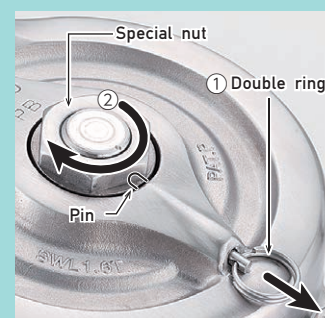


Measures against loose nuts

- The invented special nut offers loose nut preventive function.

- Pull the double ring.
- Turn the special nut while pulling the ring.

*The pin will be released only by pulling the double ring. The pin will be caught when turning the special nut without pulling it. Be sure to keep pulling when turning.



V sheave type

The V-shaped sheave is developed for the wire rope. The wire rope fits well because of this V-shaped groove.



[V sheave type]

No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	D (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK1690	75	1	16	12.5	214	38	111	83	19	8.5	21	45	4	6202	1.3	0.7	\$275.50
AK1696	100	1	16	13	268	44	134	110	22	10.5	25	56	5	6304	2.6	1.6	\$419.00

* Material: SCS14 (equivalent to SUS316), Sheave = SCS1 (equivalent to SUS410), Sheave pin/swivel/swivel pin/toggle pin/stopper pin = SUS304

* The working load does not apply to the becket part. * The working load conforms to the working load of the bearings.

* This product contains two steel bearings with rubber seals.



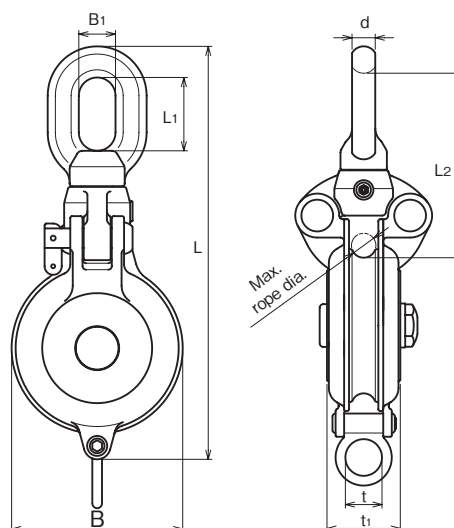
Heavyduty Block (with Bearing)



[Single sheave]



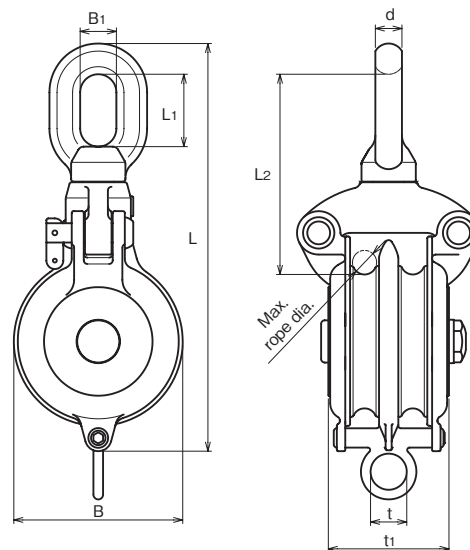
[Single sheave]



[Double sheave]



[Double sheave]



[Single sheave]

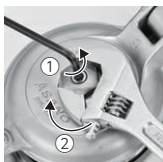
No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK1732	125	1	20	19	328	54	159	140	27	30	60	6 · 8	6308	5.9	2.5	\$985.50
AK1733	150	1	20	22	380	60	182	167	30	30	71	8 · 8	6310	9.4	3.0	\$1490.00
AK1734	175	1	24	25	434	68	206	194	34	39	82	8 · 10	6312	14.3	3.5	\$2014.50

[Double sheave]

No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK1792	125	2	20	22	347	60	175	140	30	30	100	6 · 8	6308	9.8	2.5	\$1942.00

How to remove the nut

- ① Rotate the pin at the center of the nut (right-handed thread) with a hexagon wrench to remove it.
 - ② Rotate the nut (left-handed thread) with a spanner to remove it.
- Reverse the order of the procedure to reattach them.



- * Material: Special stainless steel, Sheave pin/swivel/swivel pin/arm pin = SUS304, Grease nipple = brass
- * The working load does not apply to the bracket part.
- * The working load conforms to the working load of the bearings.
- * The nut at the center of the body is a left-handed thread.
- * This product contains one steel bearing with rubber seals.

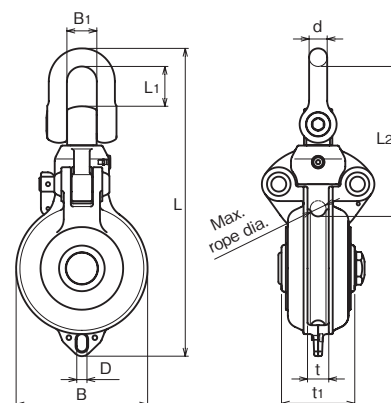
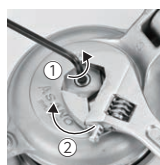


Heavyduty Block Type SII (with Bearing)



How to remove the nut

- ① Rotate the pin at the center of the nut (right-handed thread) with a hexagon wrench to remove it.
 - ② Rotate the nut (left-handed thread) with a spanner to remove it.
- Reverse the order of the procedure to reattach them.



No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	D (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK1783	150	1	20	23	391	50	190	167	38	13	27	93	4・8・14	6308	12.2	5.0	\$2155.00

* Material: Special stainless steel, Sheave pin/swivel pin/arm pin = SUS304, Grease nipple = brass

* The working load does not apply to the becket part.

* The working load conforms to the working load of the bearings.

* The nut at the center of the body is a left-handed thread.

* This product contains two steel bearings with rubber seals.

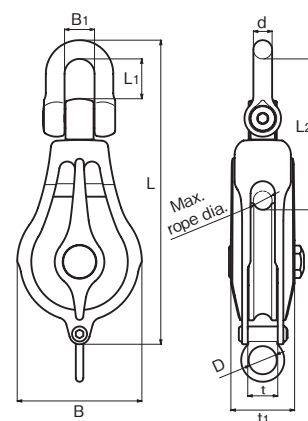
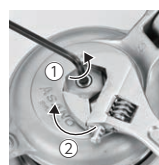


Tough Block Type PB (with Bearing)



How to remove the nut

- ① Rotate the pin at the center of the nut (right-handed thread) with a hexagon wrench to remove it.
 - ② Rotate the nut (left-handed thread) with a spanner to remove it.
- Reverse the order of the procedure to reattach them.



No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	D (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK10010	125	1	20	20	325	42	161	133	32	30	30	68	6 8 10	6308	6.2	3.0	\$1408.00
AK10011	150	1	20	23	370	50	180	159	38	30	33	75	8 14	6310	9.4	5.0	\$1901.00
AK10012	175	1	24	26	427	57	208	185	44	40	39	85	8 10 14	6312	14.4	6.0	\$2381.00

* Material: Special stainless steel, Sheave pin/neck bolt = SUS304

* The working load does not apply to the becket part.

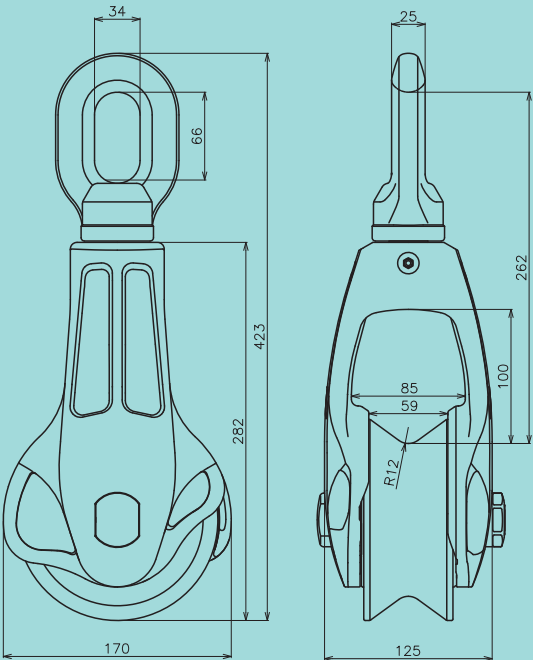
* The working load conforms to the working load of the bearings.

* The nut at the center of the body is a left-handed thread.

* This product contains one steel bearing with rubber seals.



Tough Hanging Roller Type II PAT.
(with Bearing)



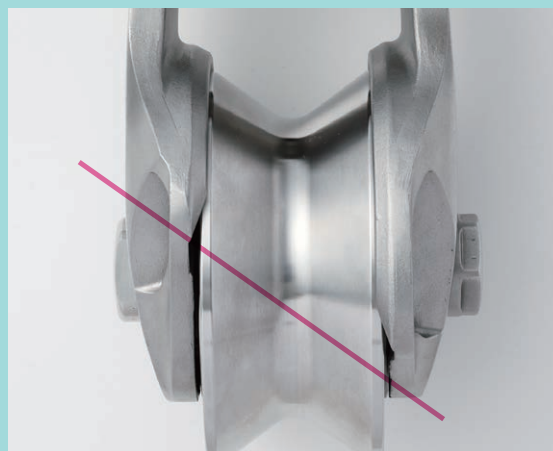
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK10065	150	32	6308	11.8	5.0	\$1684.00

* Material: Special stainless steel, Swivel/swivel pin/sheave pin = SUS304,
Grease nipple = SUS303
* The working load conforms to the working load of the bearings.
* This product contains two steel bearings with rubber seals.

Product features



Small metal fittings like the Snap Hook/ISH (P134) can pass through. (Refer to P133, usage example E.)



Changing the horizontal width of the main body prevents even metal fittings from getting caught when hoisting. The sheave is also designed to be in the main body to prevent ropes from being caught.



The wider space between the body and the sheave allows ropes and fittings to pass through.



The bolt edge of the sheave pin is tightly fixed through crimping.



Swivel grease nipple

Use a grease gun to lubricate.

* Use a grease gun with a nozzle size that is smaller than the inner diameter of the lubrication section.

AK Block Type PB Double Sheave (with Stainless Bearing)

New Product



Product features



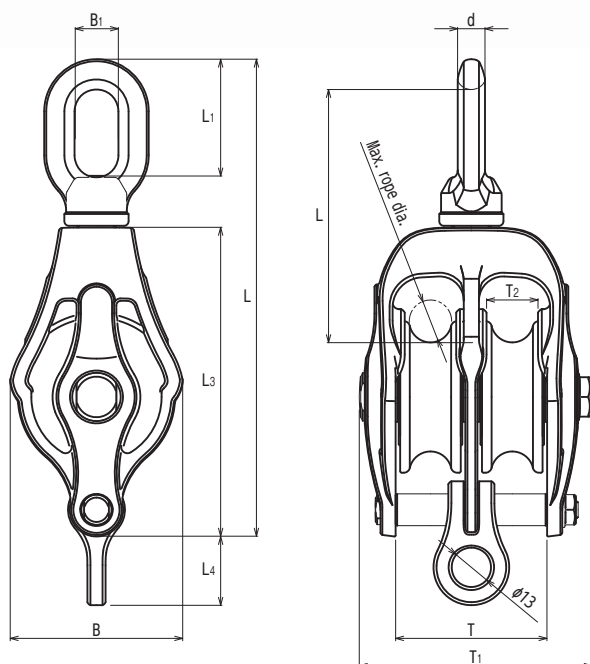
A becket unique to this model is used. This has been designed for safety and is stronger than beckets used for existing models.



The design of the sheave pin socket has been widened to improve the strength of the main body. The bearings in the sheave facilitate smooth rotation.



The bolt edges of the sheave and becket pins are firmly fixed through crimping to prevent them from loosening.



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	L ₄ (mm)	B (mm)	B ₁ (mm)	T (mm)	T ₁ (mm)	T ₂ (mm)	Bearing No.	Unit weight (kg)	Working load limit (kg)	List price
AK10310	50	14	9	158	38.5	83.5	102	23	57	14.5	50	77	17	6000	0.95	400	\$249.25

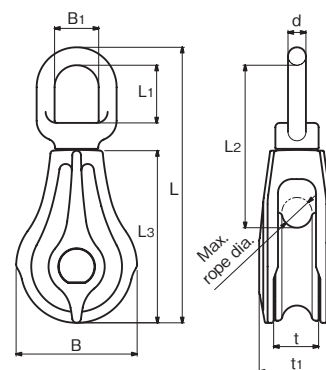
* Material: Special stainless steel, Swivel/swivel pin/sheave pin/becket pin/cover = SUS304

* The working load conforms to the working load of the bearings.

* This product contains stainless bearings.

* Please ask us about when this product will be available for sale.

AK Block Type PB (with Bearing) / AK Block Type PB (with Stainless Bearing)



[With bearing]

No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Bearing No.	Unit weight (kg)	Working load limit (kg)	List price
AK1680	50	14	9	136	29	82	80	56	14	20	35	6000	0.5	400	\$90.00
AK1681	75	16	12.5	194	38	111	119	82	19	24	44	6002	1.3	600	\$239.50
AK1682	100	22	13	244	44	137	156	106	22	28	50	6203	2.5	1,000	\$333.50

[With stainless steel bearing]

No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Bearing No.	Unit weight (kg)	Working load limit (kg)	List price
AK10300	50	14	9	136	29	82	80	56	14	20	35	6000	0.5	400	\$99.50
AK10301	75	16	12.5	194	38	111	119	82	19	24	44	6002	1.3	600	\$255.50
AK10302	100	22	13	244	44	137	156	106	22	28	50	6203	2.5	1,000	\$357.50

● The sheave is designed to be in the main body to prevent the ropes from being caught.

● The bolt used for connecting the swivel is one size thicker than those of previous blocks for greater strength.

* Material: SCS14 (equivalent to SUS316), Swivel/swivel pin/sheave pin/nut = SUS304

* The working load conforms to the working load of the bearings.

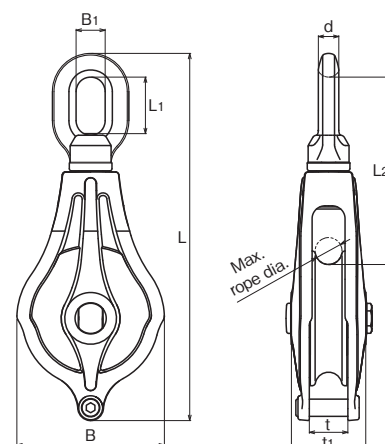
(This product contains two bearings.)



AK Block Type PB II (with Bearing)



The bolt edge of the sheave pin is tightly fixed through crimping.



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK10073	125	25	19	341	52	174	137	27	36	69	8	62/28	4.9	1.5	\$733.50

* Material: Special stainless steel, Swivel/swivel pin/sheave pin/becket bolt/becket collar = SUS304

* The working load conforms to the working load of the bearings.

* This product contains two steel bearings with rubber seals.

AK Block



Type III-A

There are three types in the AK Block Type III-A series: the eye type, the hook type, and the snatch type.

In addition, there are single sheave types and double sheave types.



[AK Snatch Block Type III-A (with Eye Top)]



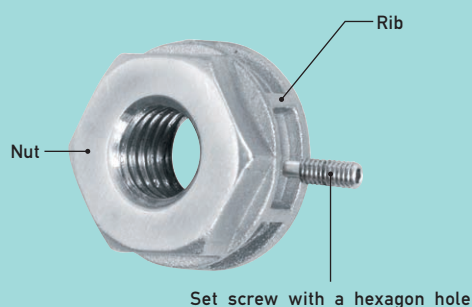
[AK Block Type III-A (with Forged Hook Top)]



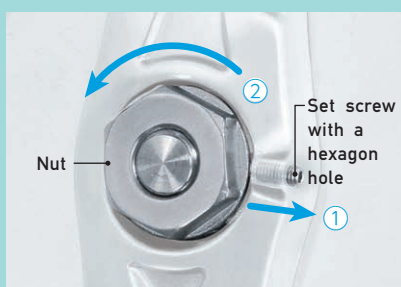
Product features

Improved nut loosening prevention

Ribs are designed into the nut, and a set screw is fixed between the ribs. When the nut is loosened, the rib runs into the set screw, making the nut harder to loosen.



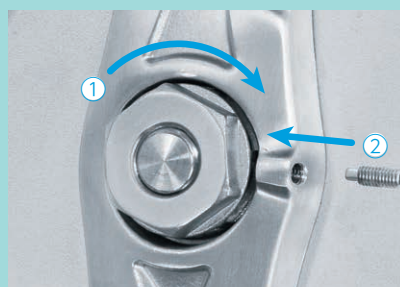
How to remove



When removing, ① remove the set screw first, and then ② remove the nut.

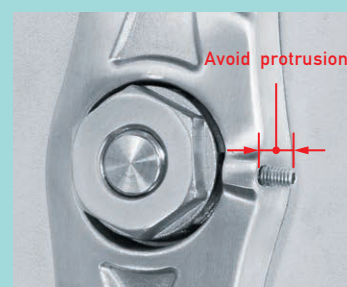
⚠Caution: If you attempt to remove the nut first, the tip of the set screw will bend and become unremovable.

How to mount



When mounting, ① tighten the nut first, and then ② screw the set screw.

⚠Caution: If the set screw is protruding during use, it may come off when the nut is loosened.



* When the set screw runs into the rib, it is not fully inserted and is protruding. When this occurs, loosen the nut to the thickness of the ribs, and then screw it in all the way.

Adopts a hook-type snatch

Allows fast open and close operation.



Improved usability of ropes

Taking the maximum rope diameter for each size into consideration, the space below the sheave and the becket diameter are enlarged to improve usability. It enables broader use in more situations.



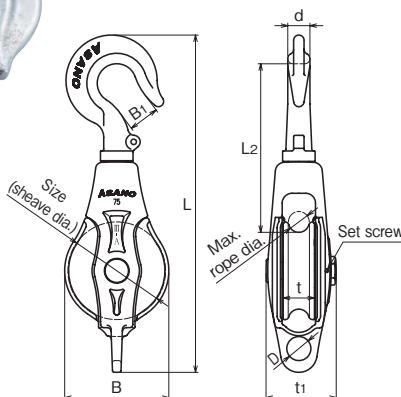
AK Block Type III-A, Single / Double Sheave (with Forged Hook Top) PAT.



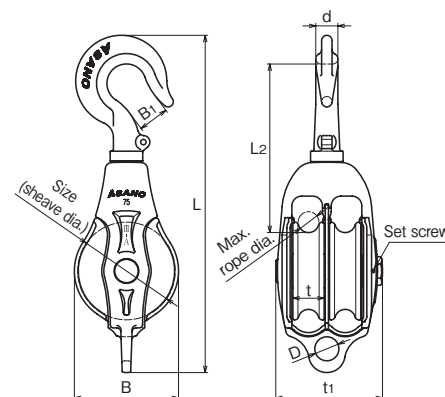
Hooks with latches are also available.



[Single sheave]



[Double sheave]



No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	D (mm)	L (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10151	75	1	16	17	18	259	129	80	23	24	54	1.5	1.25	500	\$173.75
AK10156	75	2	16	17	18	259	129	80	23	24	82	1.5	1.80	500	\$256.00
AK10152	100	1	22	22	23	340	170	108	30	28	62	1.5	2.70	1,000	\$276.50
AK10157	100	2	22	22	23	340	170	108	30	28	95	1.5	3.75	1,000	\$403.25

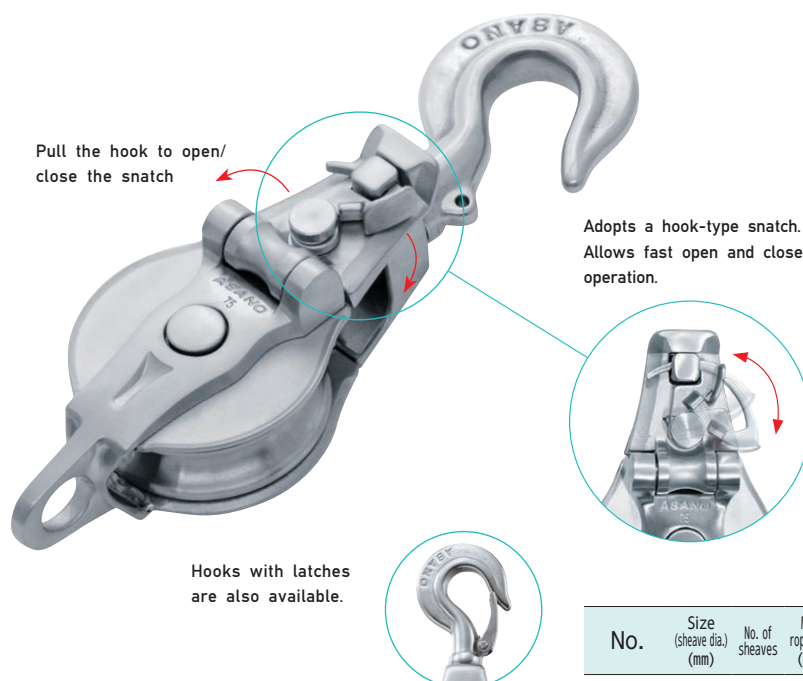
* Material: Special stainless steel, Sheave = SCS13 (equivalent to SUS304)

Hook/side plate/sheave pin/set screw with a hexagon hole = SUS304,

Oil impregnated bush = bronze



AK Snatch Block Type III-A, Single Sheave (with Forged Hook Top) PAT.

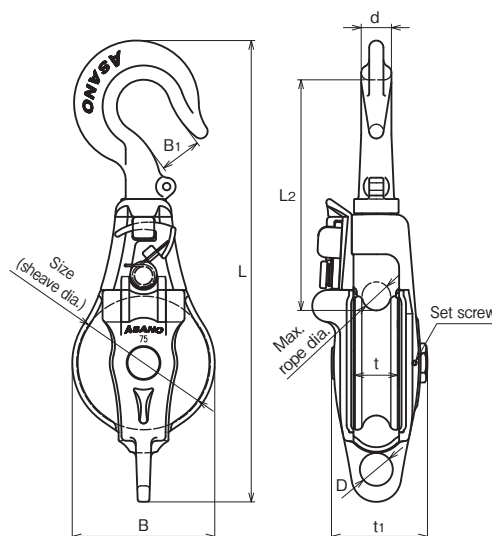


Pull the hook to open/close the snatch

Adopts a hook-type snatch. Allows fast open and close operation.



Hooks with latches are also available.



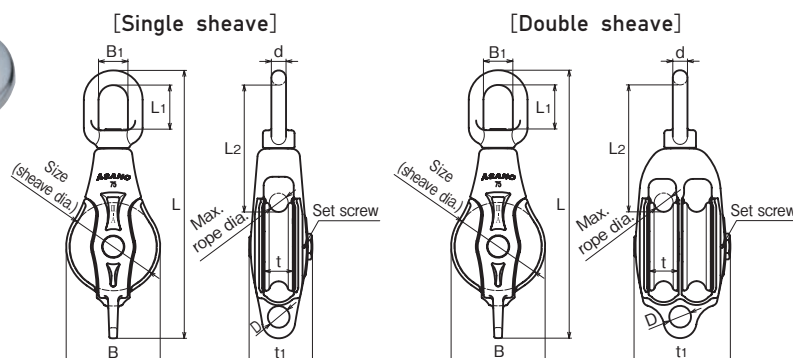
No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10171	75	1	16	17	259	129	80	23	24	54	1.5	1.40	500	\$232.70
AK10172	100	1	22	22	340	170	108	30	28	62	1.5	2.85	1,000	\$389.60

* Material: Special stainless steel, Sheave = SCS13 (equivalent to SUS304)

Hook/side plate/sheave pin/set screw with a hexagon hole = SUS304,

Oil impregnated bush = bronze



AK Block Type III-A, Single / Double Sheave (with Eye Top) PAT.

No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10141	75	1	16	12.5	18	237	38	115	80	19	24	54	1.5	1.2	500	\$151.50
AK10146	75	2	16	12.5	18	237	38	115	80	19	24	82	1.5	1.6	500	\$236.00
AK10142	100	1	22	13	23	297	44	143	108	22	28	62	1.5	2.2	1,000	\$254.00
AK10147	100	2	22	13	23	297	44	143	108	22	28	95	1.5	3.1	1,000	\$373.50
AK10143	125	1	25	19	26	364	54	174	135	27	32	73	2	4.0	1,200	\$483.00
AK10148	125	2	25	19	26	364	54	174	135	27	32	111	2	5.7	1,200	\$671.50
AK10144	150	1	30	22	31	433	60	204	160	30	38	82	3	6.0	2,500	\$851.00
AK10149	150	2	30	22	31	433	60	204	160	30	38	130	3	9.0	2,500	\$1356.00

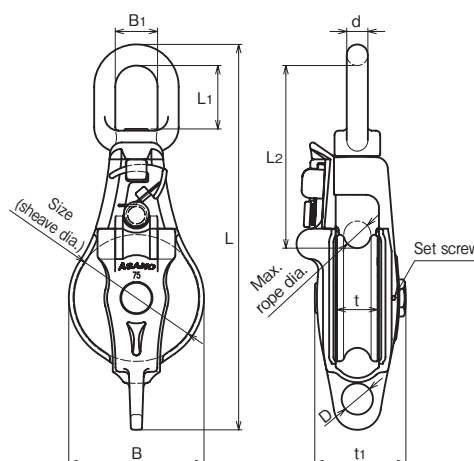
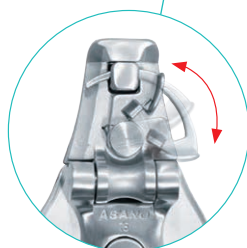
* Material: Special stainless steel, Sheave = SCS13 (equivalent to SUS304)
Swivel/side plate/sheave pin/set screw with a hexagon hole = SUS304,
Oil impregnated bush = bronze

**AK Snatch Block Type III-A, Single Sheave (with Eye Top) PAT.**

Pull the hook to open/
close the snatch



Adopts a hook-type
snatch.
Allows fast open and
close operation.



No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10161	75	1	16	12.5	18	237	38	115	80	19	24	54	1.5	1.3	500	\$211.50
AK10162	100	1	22	13	23	297	44	143	108	22	28	62	1.5	2.4	1,000	\$363.00
AK10163	125	1	25	19	26	364	54	174	135	27	32	73	2	4.4	1,200	\$544.00
AK10164	150	1	30	22	31	433	60	204	160	30	38	82	3	6.8	2,500	\$1007.00

* Material: Special stainless steel, Sheave = SCS13 (equivalent to SUS304)
Swivel/side plate/sheave pin/set screw with a hexagon hole = SUS304,
Oil impregnated bush = bronze

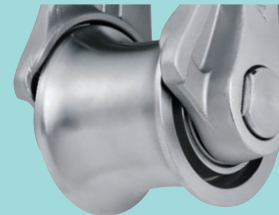


Hanging Roller Type PB (with Stainless Bearing) PAT.



Product features

Main body shape with visible sheave



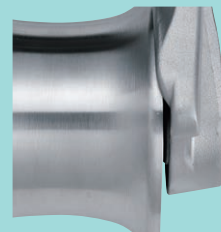
In addition to the unique shape, the sheave guard is slanted to reduce the risk of ropes being caught.

Sufficiently wide opening



The wider space between the body and the sheave allows ropes and fittings to pass through.

Improved sheave pin socket in main body



The design of the sheave pin socket was widened to improve the strength of the main body.

Bolt retainment through crimping

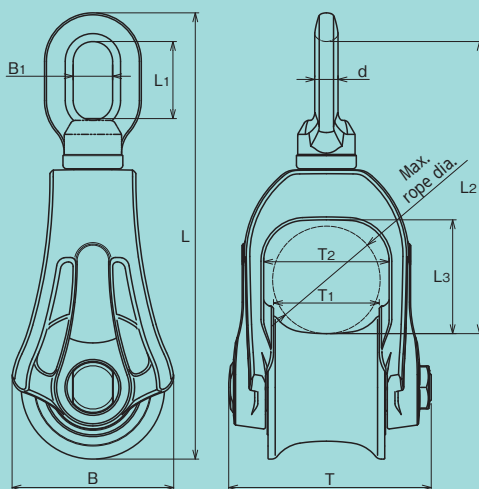


The bolt edge of the sheave pin is tightly fixed through crimping.

Sheave with bearings



Bearings in the sheave facilitate smooth rotation.



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	T (mm)	T ₁ (mm)	T ₂ (mm)	d (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK10051	80	60	249	43	163	63	90	22	113	59	70	13	6204	2.8	1.0	\$487.00
AK10052	100	70	306	52	196	75	109	27	135	73	85	19	63/22	4.5	1.3	\$825.50

* Material: Special stainless steel, Swivel/swivel pin/sheave pin = SUS304

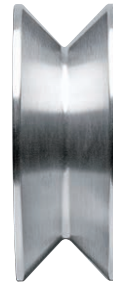
* The working load conforms to the working load of the bearings.

* This product contains stainless steel bearings.

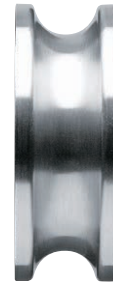
Long Liner Wani-Block (with Stainless Bearing) PAT.P.



Product features



V-groove sheave

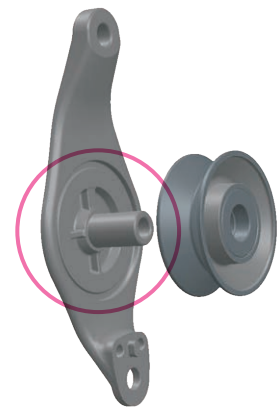


U-groove sheave

Lineup of V-groove and U-groove sheaves.



The protruding rib also contributes to increased strength.

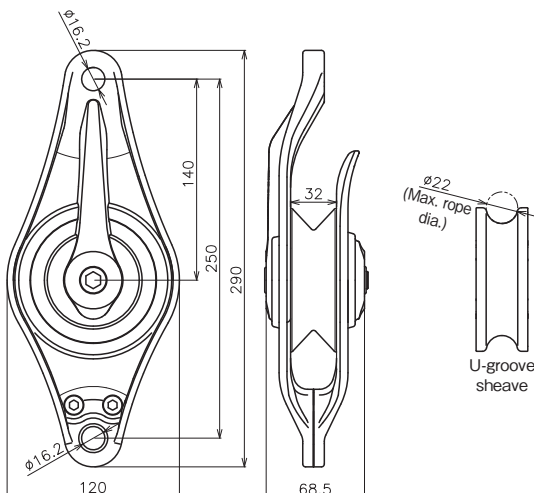


Improved strength through the integrated structure of the sheave shaft and main body. The edges of the sheave are designed to fit into the main body to prevent ropes from getting tangled.

Combination example

Swivel

Can be used with size 16 (P060) of the ASANO Swivel (Jaw & Jaw).



No.	Size (sheave dia.) (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (t)	List price
AK10351	100	6 10	6005	2.6	0.75	\$381.00

*Material: Special stainless steel, Sheave pin/sheave pin nut/M8 hex socket bolt = SUS304

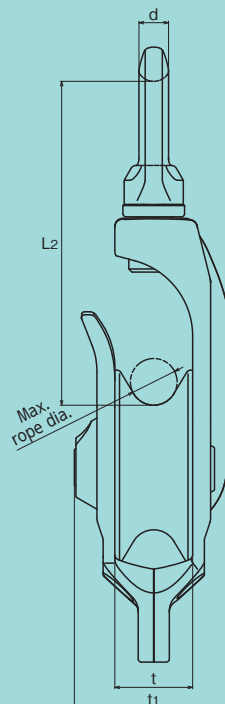
*The working load conforms to the working load of the bearings.

*This product contains stainless steel bearings.

*V-grooves and U-grooves are available for the shape of the sheave groove.



Wide Sheave Wani-Block (with Bearing) PAT.P.



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Bearing No.	Unit weight (kg)	Working load limit (kg)	List price
AK10083	125	30	19	19	395	52.5	208	139	27	50	102	8-14	6007	5.9	1,000	\$848.50

* Material: Special stainless steel, Swivel/swivel pin/bolt = SUS304

* The working load conforms to the working load of the bearings.

* This product contains two steel bearings with rubber seals.

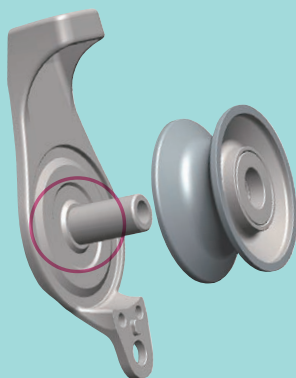
Product features



The width of the sheave allows a thick rope to pass through smoothly.



Since the rims of the sheave are covered by the main body, a length of rope will not easily become caught between the main body and the sheave.

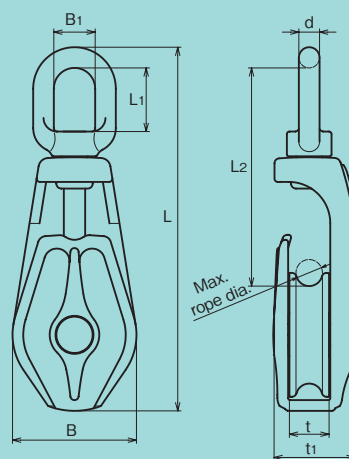


The sheave shaft is integrated into the main body, contributing to the increased strength of the sheave shaft.



The distinctively protruding rib contributes to high level strength.

AK Wani-Block Type P



Special attachment



Hexagon wrench

No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK10001	50	14	9	159	29	100	50	14	20	44	—	0.6	350	\$161.00
AK10002	75	16	12.5	229	38	139	75	19	24	49	10	1.8	600	\$285.00
AK10003	100	22	13	285	44	170	100	22	28	61	12	3.4	1,000	\$472.00
AK10004	125	25	19	348	54	200	125	27	32	73	14	6.5	1,500	\$841.50

● Use of a separately-sold special attachment and a hexagon wrench together makes replacement and repair of the sheave easier than before.

* Material: Special stainless steel, Sheave pin/swivel/swivel pin = SUS304

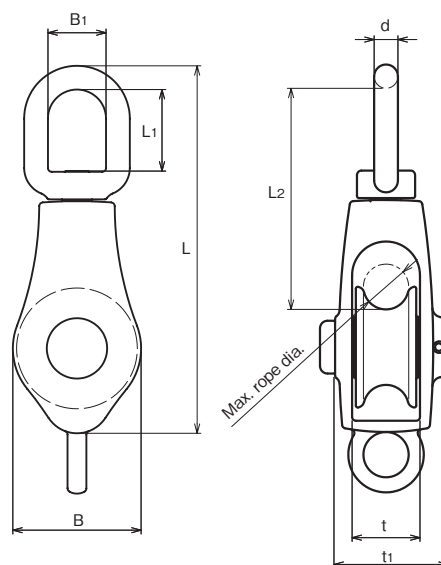
* The sheave of the AK10001 cannot be replaced.



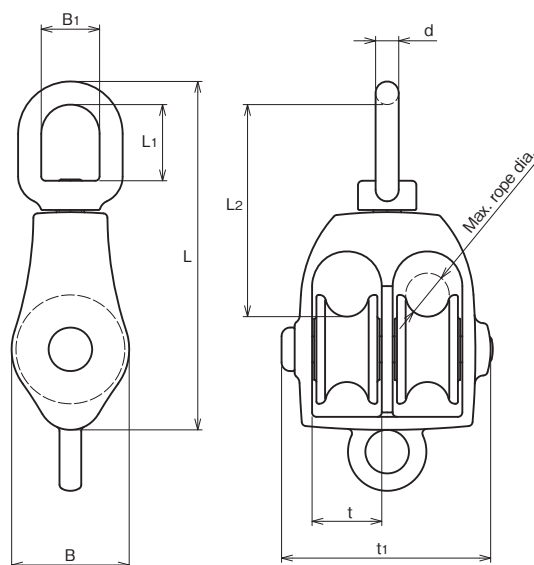
AK Block Type S Single / Double Sheave



[Single sheave]



[Double sheave]



No.	Size (sheave dia.) (mm)	No. of sheaves	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK1625	20	1	8	4	68	15	42	22	11	12	24	0.07	80	\$18.05
AK1626	20	2	8	4	68	15	42	22	11	12	40.5	0.11	80	\$28.85
AK1630	25	1	10	5	80	17	48	27	13	14	26.5	0.11	170	\$20.25
AK1631	25	2	10	5	80	17	48	27	13	14	45	0.18	170	\$32.10
AK1635	32	1	12	6	96	21	59	34	15	16	30	0.20	200	\$24.10
AK1636	32	2	12	6	96	21	59	34	15	16	50	0.31	200	\$46.45
AK1637	38	1	13	6	105	21	61	40	15	18	32.5	0.26	200	\$29.10
AK1638	38	2	13	6	105	21	61	40	15	18	55	0.42	200	\$49.90
AK1640	50	1	14	8	131	27	73	53	20	20	36	0.41	300	\$35.55
AK1641	50	2	14	8	131	27	73	53	20	20	61	0.63	300	\$64.05

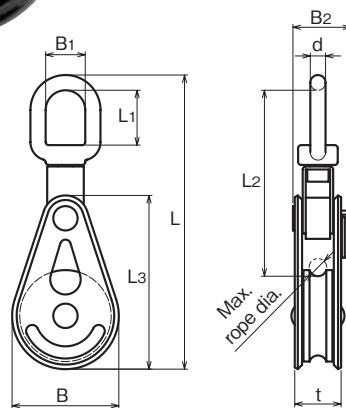
* Material: SCS14 (equivalent to SUS316), Sheave pin/swivel pin = SUS316

* The working load does not apply to the becket part.

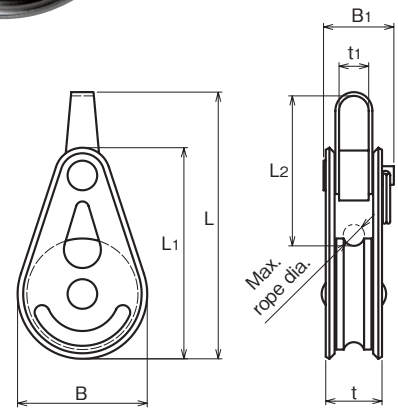
* Size 20 has no becket.

Mini-Block with Swivel Eye / Fixed Eye

[Swivel eye]



[Fixed eye]



[Swivel eye]

No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1832	25	6	5	85	18	56	45	27	13	18	15	50	60	\$14.25
AK1833	30	6	5	101	18	65	57	35	13	20	15	60	60	\$14.80
AK1834	35	9	5	106	18	66	65	40	13	20	17	70	60	\$15.25
AK1835	40	9	5	111	18	65	71	44	13	22	19	85	60	\$15.88

* Material: SUS304, Swivel = SCS13 (equivalent to SUS304), Sheave = nylon

* Actual sheave size of a size 40 is 42.

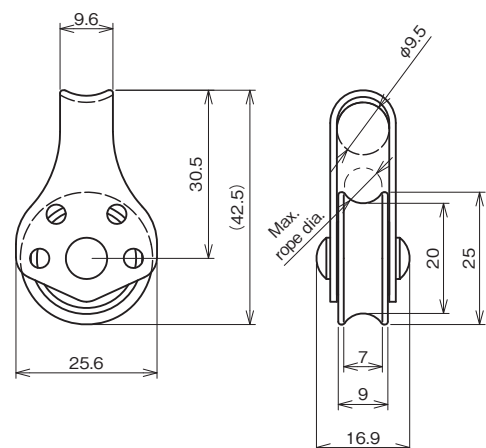
[Fixed eye]

No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1822	25	6	60	45	33	27	20	15	6	30	60	\$11.25
AK1823	30	6	71	57	38	35	20	15	6	40	60	\$11.80
AK1824	35	9	82	65	45	40	20	17	9	50	60	\$12.35
AK1825	40	9	88	71	46	44	22	18	9	60	60	\$12.90

* Material: SUS304, Sheave = nylon

* Actual sheave size of a size 40 is 42.

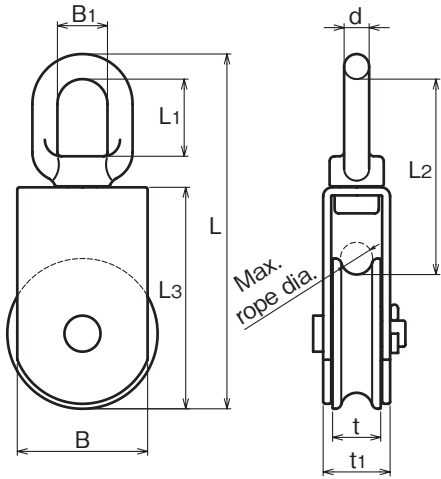
Mini-Block with Fixed Eye Type II



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1840	25	6	18	40	\$6.17

* Material: SUS304, Sheave = nylon (Black)

Sanma Block with Swivel Top (Stainless Sheave)

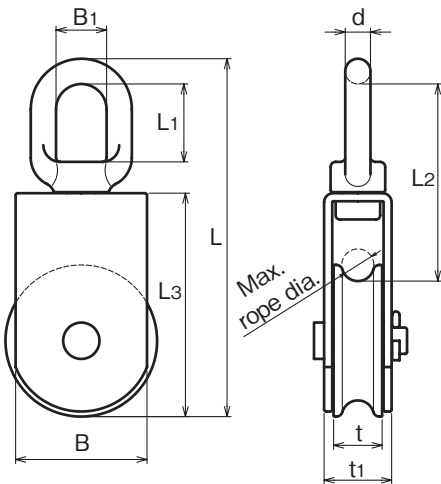


No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10030	50	14	9	131	29	78	75	45	14	20	29	460	300	\$49.20
AK10031	75	16	12.5	189	38	104	110	65	19	24	33	1,070	550	\$90.05
AK10032	100	22	13	220	44	115	132	90	22	28	37.5	1,780	950	\$121.70

* Material: SUS304, Sheave = SCS13 (equivalent to SUS304)
Oil impregnated bush = bronze



Sanma Block with Swivel Top (Nylon Sheave)

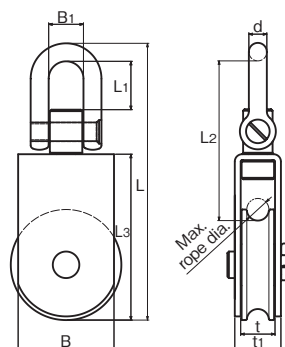


No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10035	50	14	9	131	29	78	75	45	14	20	29	360	300	\$46.40
AK10036	75	16	12.5	189	38	104	110	65	19	24	33	870	550	\$84.55
AK10037	100	22	13	220	44	115	132	90	22	28	37.5	1,380	950	\$112.70

* Material: SUS304, Sheave = nylon



Sanma Block with Shackle Top



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Hex. wrench dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10047	50	14	9	131	25	79	75	45	18	20	29	2	485	170	\$77.28
AK10048	75	16	12	186	33	107	110	65	24	24	33	2	1,120	280	\$130.80

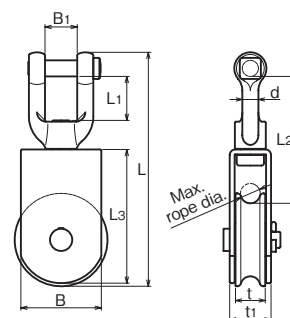
* Material: SUS304, Sheave/shackle = SCS13 (equivalent to SUS304)

Oil impregnated bush = bronze

* When using this product, tighten the shackle pin and then tighten the locking screw.



Sanma Block with Jaw Top



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10045	75	16	13	189	35	103	110	65	26	24	33	1,190	400	\$133.85

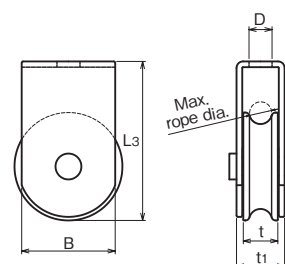
* Material: SUS304, Sheave/shackle = SCS13 (equivalent to SUS304)

Oil impregnated bush = bronze

* When using this product, securely tighten the pin.



Sanma Block without Top



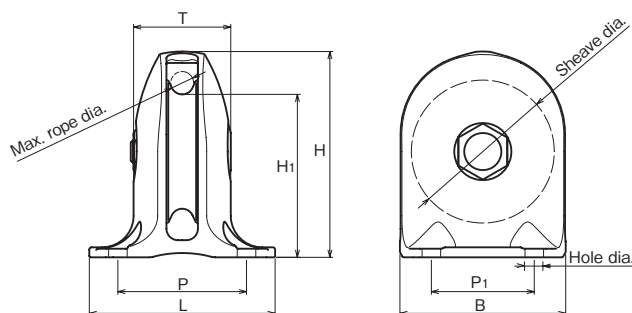
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	D (mm)	L ₃ (mm)	B (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10040	50	14	12.8	75	45	20	29	360	300	\$43.50
AK10041	75	16	16	110	65	24	33	820	550	\$78.30
AK10042	100	22	19.2	132	90	28	37.5	1,330	950	\$108.95

* Material: SUS304, Sheave = SCS13 (equivalent to SUS304)

Oil impregnated bush = bronze



Fixed Pulley Type TR / TR-B Vertical Single Sheave PAT.



TR

No.	Size (sheave dia.) (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Max. rope dia. (mm)	Sheave dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10252	50	65	34	72	57	58	45	36	6.5	8	50	335	200	\$54.33
AK10253	75	86	43	104	86	84	58	52	9	10	75	760	300	\$135.40

TR-B (with stainless steel bearing)

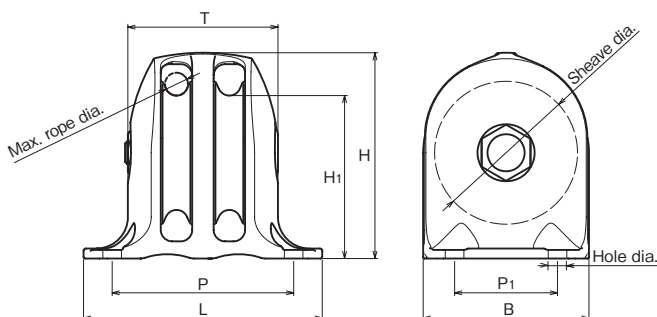
No.	Size (sheave dia.) (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Max. rope dia. (mm)	Sheave dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10257	50	65	34	72	57	58	45	36	6.5	8	50	340	200	\$81.60
AK10258	75	86	43	104	86	84	58	52	9	10	75	790	300	\$176.85

* Material: SCS13 (equivalent to SUS304), Sheave pin = SUS304

* TR-B contains bearings.



Fixed Pulley Type TR / TR-B Vertical Double Sheave PAT.



TR

No.	Size (sheave dia.) (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Max. rope dia. (mm)	Sheave dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10272	50	84	53	72	57	58	64	36	6.5	8	50	510	200	\$105.15
AK10273	75	110	67	104	86	84	82	52	9	10	75	1,170	300	\$196.55

TR-B (with stainless steel bearing)

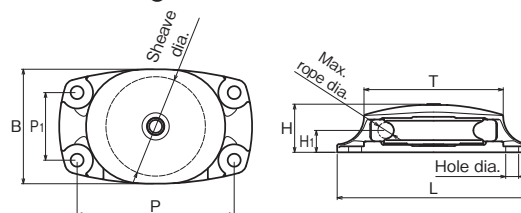
No.	Size (sheave dia.) (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Max. rope dia. (mm)	Sheave dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10277	50	84	53	72	57	58	64	36	6.5	8	50	520	200	\$152.80
AK10278	75	110	67	104	86	84	82	52	9	10	75	1,240	300	\$293.60

* Material: SCS13 (equivalent to SUS304), Sheave pin = SUS304

* TR-B contains bearings.



Fixed Pulley Type TR / TR-B Horizontal Single Sheave PAT.

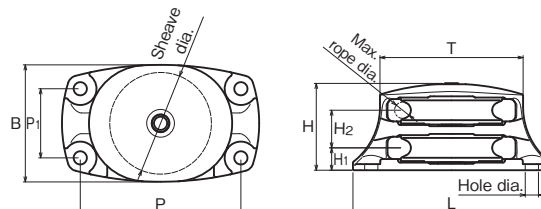


TR													
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10262	50	8	97	70	24	11	57	79	34	6.5	300	200	\$53.80
TR-B (with stainless steel bearing)													
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10267	50	8	97	70	24	11	57	79	34	6.5	305	200	\$81.08

* Material: SCS13 (equivalent to SUS304), Sheave pin = SUS304

* TR-B contains bearings.

Fixed Pulley Type TR / TR-B Horizontal Double Sheave PAT.

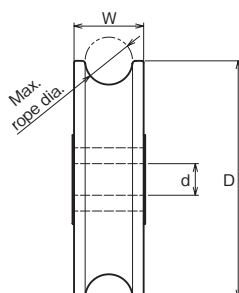


TR														
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10282	50	8	97	70	43	11	18.5	57	79	34	6.5	480	200	\$104.70
TR-B (with stainless steel bearing)														
No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	L (mm)	T (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	B (mm)	P (mm)	P ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK10287	50	8	97	70	43	11	18.5	57	79	34	6.5	490	200	\$152.35

* Material: SCS13 (equivalent to SUS304), Sheave pin = SUS304

* TR-B contains bearings.

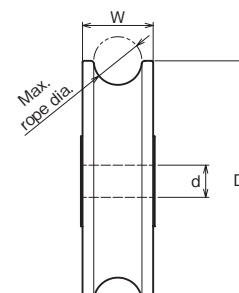
Stainless Sheave



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	W (mm)	D (mm)	Unit weight (g)	List price
AK1901	50×20	14	10	20	50	160	\$25.40
AK1903	75×24	16	13	24	75	380	\$50.70
AK1905	100×28	22	16	28	100	630	\$82.45
AK1908	125×32	25	20	32	125	940	\$134.10
AK1909	150×38	30	27	38	150	1,600	\$214.00

* Material: SCS13 (equivalent to SUS304), Oil impregnated bush = bronze

Nylon Sheave



No.	Size (sheave dia.) (mm)	Max. rope dia. (mm)	d (mm)	W (mm)	D (mm)	Unit weight (g)	List price
AK1910	50×20	14	10	20	50	28	\$14.42
AK1913	75×24	16	13	24	75	78	\$44.27
AK1914	100×28	22	16	28	100	163	\$75.45

* Material: Nylon

* The color may differ depending on the size.

Rigging Hardware

A desire to achieve secure connections gives birth to new insight.

Stainless steel products, excellent in corrosion resistance and durability, exhibit their advantages under natural conditions on ships and exteriors. Rigging hardware to link wires and chains can demonstrate such advantages. They link the sea, environment, cities, and humanity. Despite their small size, rigging hardware bear important roles. ASANO's attitude to pursue everlasting improvement can be seen even in simple hardware that appears to be matured products.





Block

Rigging Hardware

Ship Equipment

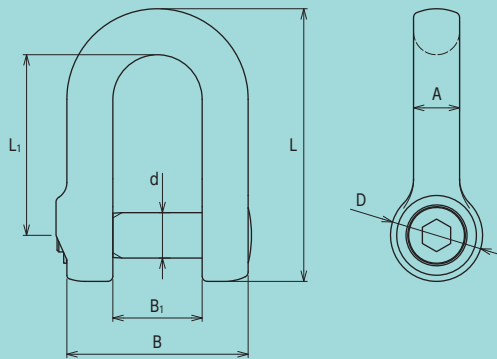
Fishing Gear

Wire Rope



Purse Shackle PAT.

Product features



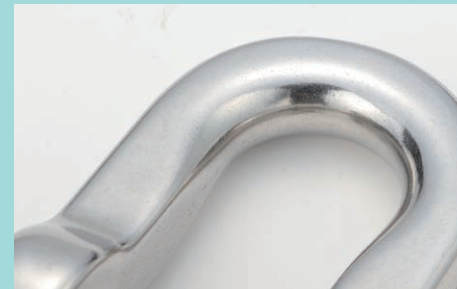
Pin loosening prevention mechanism

Fixing is performed with a screw and a snap ring. This efficiently prevents loosening of the pin.



Moderate curved shape

The curved shape is gentle on ropes. It prevents rope damage and improves their service life.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	A (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	Snap ring size	Unit weight (g)	Working load limit (kg)	List price
AK18258	13	13	78	52	13	52	26	26	W1/2	8	8	275	600	\$50.13
AK18259	16	16	96	64	16	64	32	32	W5/8	10	10	525	1,000	\$89.88

* Material: Special stainless steel, Pin = SUS316, Snap ring = SUS304



Free Shackle



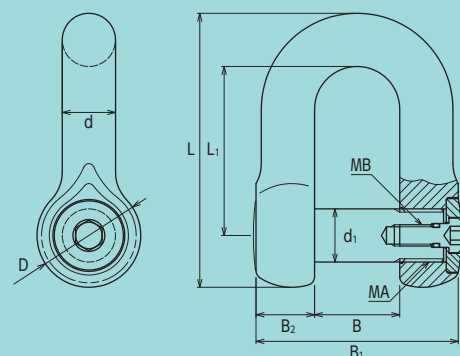
How to remove the nut

- ① Rotate the pin at the center of the nut with a hexagon wrench to remove it.
- ② Rotate the bolt with a hexagon wrench from the opposite side to remove it.

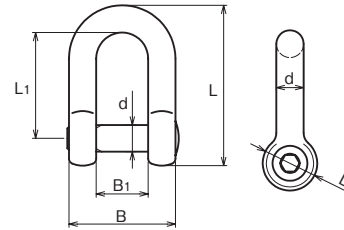


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	D (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	MA	MB	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (t)	List price
AK2323	FM19	20	20	100	64	39	32	76	22	M20	M8	6·10	0.77	2.6	\$100.55
AK2324	FM22	23	24	117	74	47	38	88	25	M24	M10	8·14	1.23	3.6	\$148.45
AK2325	FM25	26	27	138	84	57	44	98	27	M27	M12	10·14	1.87	5.2	\$258.05

* Material: Special stainless steel, Pin = SUS304



D-Shackle with Hex Socket Pin & O-Ring

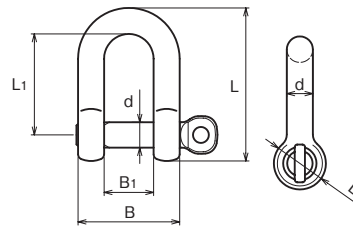


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	O-ring size	Unit weight (g)	Working load limit (kg)	List price
AK1980	6	6	36	24	24	12	12	W1/4	4	S6	24	90	\$4.76
AK1981	7	7	42	28	28	14	14	W5/16	5	S7	40	110	\$5.60
AK1982	8	8	48	32	32	16	16	W5/16	5	S9	60	140	\$6.40
AK1983	9	9	54	36	36	18	18	W3/8	6	S10	80	170	\$7.60
AK1984	10	10	60	40	40	20	20	W3/8	6	P10	110	200	\$10.05
AK1985	12	12	72	48	48	24	24	W1/2	8	P12	190	280	\$13.35
AK1986	13	13	78	52	52	26	26	W1/2	8	P12.5	240	400	\$21.60
AK1987	16	16	96	64	64	32	32	W5/8	10	P16	435	600	\$34.53
AK1988	19	19	114	76	76	38	38	W3/4	10	P22	750	720	\$58.25

● An O-ring is fitted to reduce loosening caused by vibration.

* Material: SCS13 (equivalent to SUS304), Pin = SUS304, O-ring = rubber

D-Shackle with O-Ring

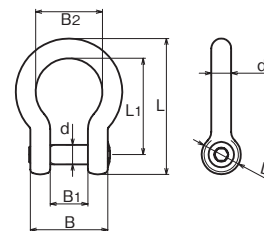


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	O-ring size	Unit weight (g)	Working load limit (kg)	List price
AK1960	6	6	36	24	24	12	12	W1/4	S6	27	140	\$4.81
AK1961	7	7	42	28	28	14	14	W5/16	S7	43	170	\$5.65
AK1962	8	8	48	32	32	16	16	W5/16	S9	56	220	\$6.34
AK1963	9	9	54	36	36	18	18	W3/8	S10	90	270	\$7.75
AK1964	10	10	60	40	40	20	20	W3/8	P10	120	320	\$10.20
AK1965	12	12	72	48	48	24	24	W1/2	P12	200	400	\$13.50
AK1966	13	13	78	52	52	26	26	W1/2	P12.5	255	450	\$21.83
AK1967	16	16	96	64	64	32	32	W5/8	P16	480	900	\$35.20

● An O-ring is fitted to reduce loosening caused by vibration.

* Material: SCS13 (equivalent to SUS304), Pin = SUS304, O-ring = rubber

Bow Shackle with Hex Socket Pin & O-Ring

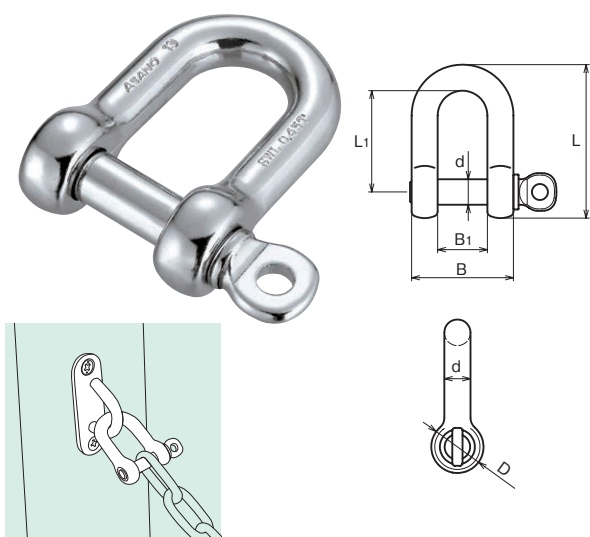


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11281	6	6	42	30	24	12	21	12	W1/4	32	90	\$7.48
AK11282	8	8	56	40	32	16	28	16	W5/16	72	140	\$9.08
AK11283	10	10	70	50	40	20	35	20	W3/8	135	200	\$14.73
AK11284	12	12	84	60	48	24	42	24	W1/2	233	280	\$23.50

● An O-ring is fitted to reduce loosening caused by vibration.

* Material: SCS13 (equivalent to SUS304), Pin = SUS304, O-ring = rubber

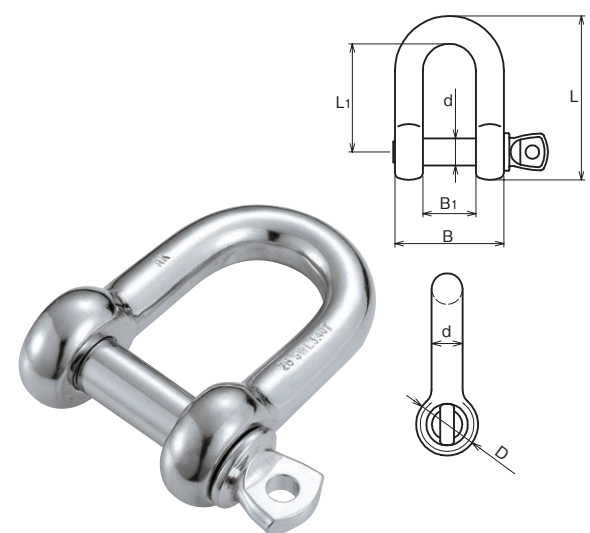
D-Shackle



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2065	4	4	24	16	16	8	8	M4	11	40	\$2.87
AK2066	5	5	30	20	20	10	10	W3/16	16	70	\$3.14
AK2115	6	6	36	24	24	12	12	W1/4	27	140	\$3.81
AK2000	7	7	42	28	28	14	14	W5/16	43	170	\$4.45
AK2013	8	8	48	32	32	16	16	W5/16	56	220	\$5.14
AK2001	9	9	54	36	36	18	18	W3/8	90	270	\$6.35
AK2002	10	10	60	40	40	20	20	W3/8	120	320	\$8.20
AK2003	12	12	72	48	48	24	24	W1/2	200	400	\$11.70
AK2004	13	13	78	52	52	26	26	W1/2	255	450	\$15.83
AK2005	16	16	96	64	64	32	32	W5/8	480	900	\$28.60
AK2006	19	19	114	76	76	38	38	W3/4	795	1,100	\$46.63
AK2007	22	22	132	88	88	44	44	W7/8	1,240	1,600	\$77.60

*Material: SCS13 (equivalent to SUS304), Pin = SUS304

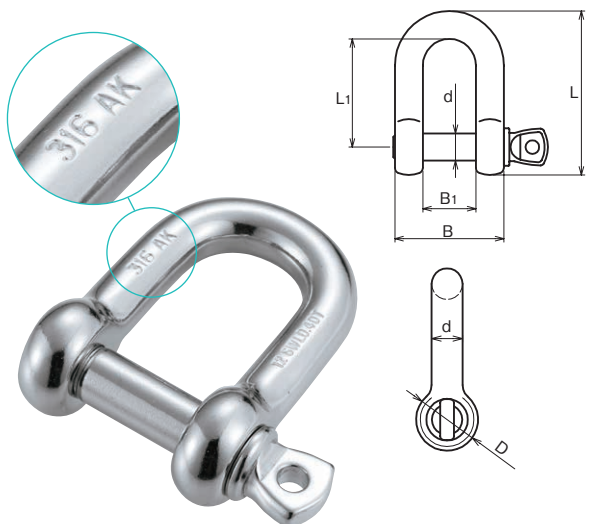
D-Shackle (Forged)



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11300	4	4	23	15	16	8	8	M4	8	40	\$2.22
AK11301	5	5	30	20	20	10	10	M5	15	70	\$2.53
AK11302	6	6	38	26	24	12	12	M6	25	140	\$2.78
AK11304	8	8	50	34	33	17	17	M8	60	220	\$4.20
AK11305	9	9	54	36	36	18	18	W3/8	80	270	\$5.70
AK11306	10	10	58	38	38	18	20	M10	105	320	\$6.58
AK11307	12	12	72	48	48	24	24	M12	195	400	\$10.53
AK11308	14	14	90	62	56	28	28	M14	325	600	\$16.38
AK11309	16	16	96	64	64	32	32	M16	445	900	\$25.18
AK11310	19	19	115	77	76	38	38	M20	775	1,100	\$39.23
AK11311	22	22	130	86	88	44	44	M22	1,195	1,600	\$69.43
AK11312	25	25	145	95.5	100	50	50	M24	1,710	2,200	\$101.65
AK11313	28	28	162	107	112	56	54	M27	2,560	3,400	\$174.40
AK11314	32	32	197	133	130	66	64	M33	3,750	4,300	\$245.25

*Material: SUS304

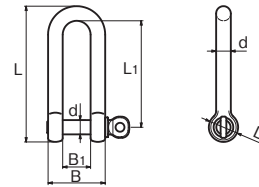
D-Shackle 316 (Forged)



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK61302	6	6	38	26	25	13	12	M6	25	140	\$4.88
AK61304	8	8	50	34	33	17	17	M8	60	220	\$6.40
AK61305	9	9	54	36	36	18	18	W3/8	80	270	\$8.70
AK61306	10	10	57.5	38	38	18	19	M10	105	320	\$9.38
AK61307	12	12	71	47	49	25	24	M12	195	400	\$14.93
AK61309	16	16	92.5	61	64	32	31	M16	445	900	\$34.68
AK61310	19	19	113	75	76	38	38	M20	775	1,100	\$59.63
AK61311	22	22	130	86	88	44	44	M22	1,195	1,600	\$113.93
AK61312	25	25	145	95.5	100	50	49	M24	1,710	2,200	\$165.65
AK61313	28	28	162	107	112	56	54	M27	2,560	3,400	\$248.40

*Material: SUS316

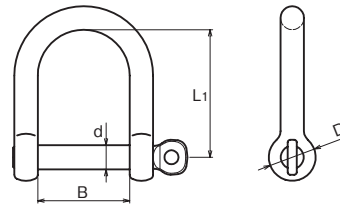
Long D-Shackle



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2037	4	4	40	30	16	8	8	M4	10	40	\$3.25
AK2038	5	5	50	40	20	10	10	M5	18	70	\$3.47
AK2039	6	6	60	48	24	12	12	M6	26	140	\$3.99
AK2040	8	8	78	62	32	16	16	M8	95	220	\$8.73
AK2041	10	10	98	78	40	20	20	M10	180	320	\$13.70
AK2042	12	12	120	96	48	24	24	M12	300	400	\$21.80

*Material: SCS13 (equivalent to SUS304), Pin = SUS304

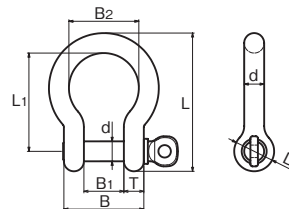
Wide D-Shackle



No.	Size	d (mm)	L ₁ (mm)	B (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11361	5	5	22	25	10	M5	19	30	\$4.09
AK11362	6	6	36	24	12	M6	32	60	\$4.58
AK11363	8	8	35	28	16	M8	64	140	\$6.26
AK11364	10	10	60	40	20	M10	154	200	\$11.31
AK11365	12	12	72	50	24	M12	256	260	\$17.34

*Material: SUS304

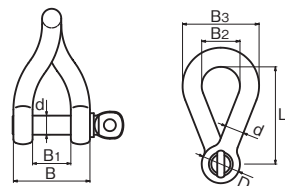
Bow Shackle



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	T (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2125	6	6	42	30	24	12	21	6	12	W1/4	35	140	\$4.53
AK2126	8	8	56	40	32	16	28	8	16	W5/16	80	220	\$6.30
AK2127	10	10	70	50	40	20	35	10	20	W3/8	150	320	\$9.95
AK2128	12	12	84	60	48	24	42	12	24	W1/2	250	400	\$14.75
AK2129	16	16	112	80	64	32	56	16	32	W5/8	585	900	\$36.78

*Material: Main body = SCS13 (equivalent to SUS304), Pin = SUS304

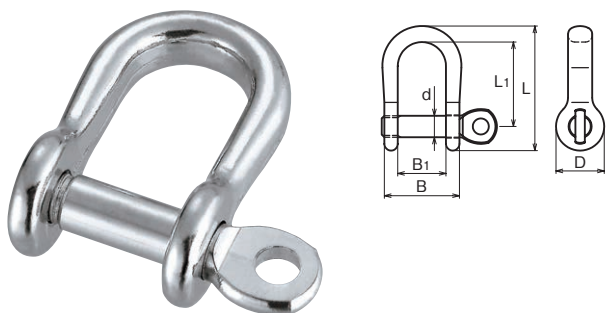
Twisted Shackle



No.	Size	d (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2080	4	4	18	15	8	8	10.5	8	M4	9	40	\$5.04
AK2081	5	5	23	21	11	10	18	11	M5	18	70	\$5.27
AK2082	6	6	28	24	12.5	11	22	13	M6	29	140	\$6.44
AK2083	8	8	31	33	17	16	31	17	M8	70	220	\$9.25
AK2084	10	10	50	40	20	20	39	19.5	M10	132	320	\$12.98
AK2085	12	12	60	48	25	24	47	23.5	M12	230	400	\$19.45

*Material: SCS13 (equivalent to SUS304), Pin = SUS304

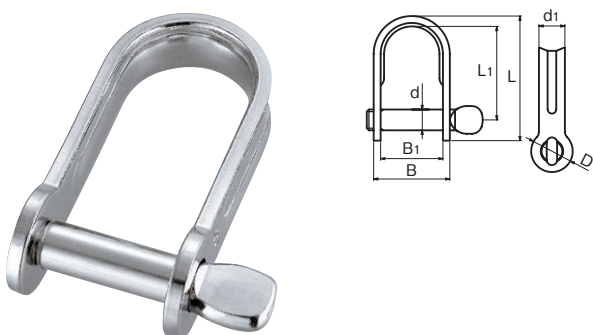
Semi Round D-Shackle



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2015	5	5	31	21	18	12	12	M5	13	60	\$2.50
AK2016	6	6	37	25	22	13	14	M6	21	80	\$3.02
AK2017	8	8	47	32	27	18	18	M8	40	100	\$4.20

* Material: SCS13 (equivalent to SUS304), Pin = SUS304

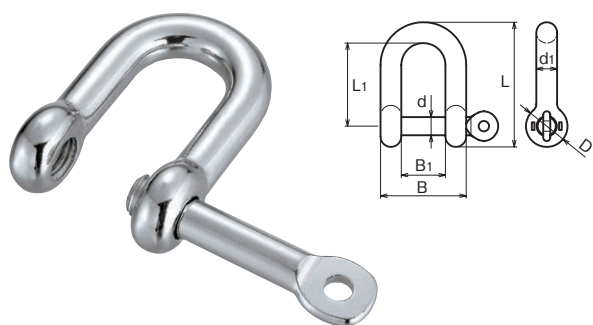
Flat Body D-Shackle



No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2020	4	4	5	23.5	17	12.5	11	9	M4	4	35	\$1.86
AK2021	5	5	6.5	28.5	20.5	17	13	11	M5	10	60	\$2.05
AK2022	6	6	7.5	36	27	22	18	12	M6	17	80	\$2.76
AK2023	8	8	12.5	57	44	28	20	18	M8	30	100	\$3.85

* Material: SUS304

D-Shackle with Captive Pin

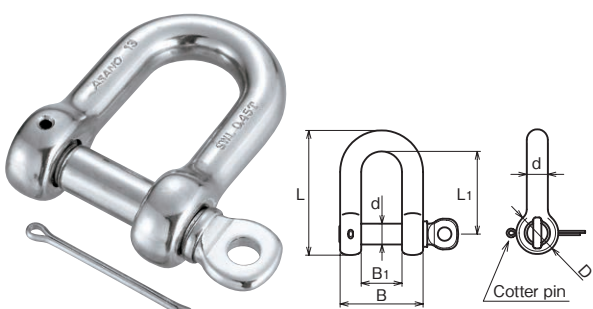


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2030	5	4	5	32	22	21	11	10	M5	15	60	\$5.53
AK2031	6	5	6	37	25	24	12	12	M6	25	110	\$6.48
AK2032	8	7	8	48	32	33	17	16	M8	56	170	\$9.14
AK2033	10	9	10	60	40	40	20	20	M10	105	260	\$14.38
AK2034	12	11	12	72	48	49	25	24	M12	175	320	\$19.93

● This product is suitable for work in high places because the pin does not detach.

* Material: SCS13 (equivalent to SUS304), Pin = SUS304

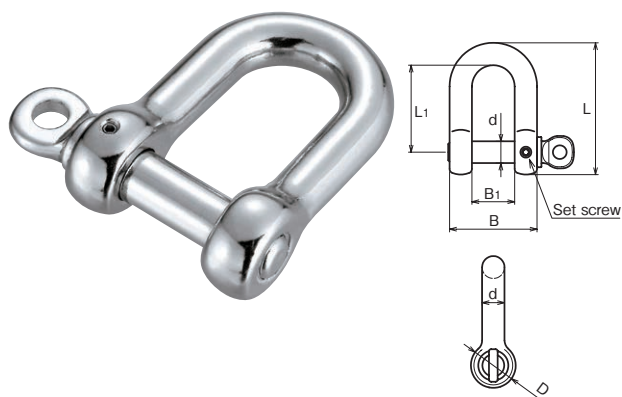
D-Shackle with Cotter Pin



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Cotter pin (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11103	7	7	42	28	28	14	14	W5/16	Φ3×20L	43	170	\$10.15
AK11104	8	8	48	32	32	16	16	W5/16	Φ3×25L	56	220	\$10.74
AK11105	9	9	54	36	36	18	18	W3/8	Φ3×30L	90	270	\$11.75
AK11106	10	10	60	40	40	20	20	W3/8	Φ3×30L	120	320	\$13.40
AK11107	12	12	72	48	48	24	24	W1/2	Φ3×40L	200	400	\$17.30
AK11108	13	13	78	52	52	26	26	W1/2	Φ3×40L	255	450	\$21.73
AK11109	16	16	96	64	64	32	32	W5/8	Φ4×40L	480	900	\$35.80
AK11110	19	19	114	76	76	38	38	W3/4	Φ4×45L	795	1,100	\$54.23

* Material: SCS13 (equivalent to SUS304), Pin/cotter pin = SUS304

D-Shackle with Safety Socket Screw

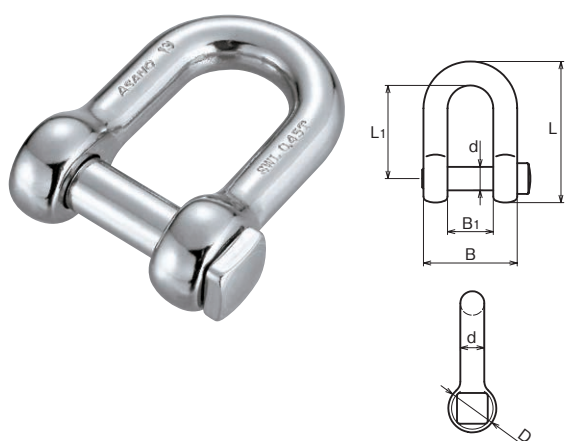


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11053	7	7	42	28	28	14	14	W5/16	1.5	43	170	\$13.65
AK11054	8	8	48	32	32	16	16	W5/16	2	56	220	\$14.24
AK11055	9	9	54	36	36	18	18	W3/8	2	90	270	\$15.25
AK11056	10	10	60	40	40	20	20	W3/8	2	120	320	\$17.10
AK11057	12	12	72	48	48	24	24	W1/2	2	200	400	\$20.40
AK11058	13	13	78	52	52	26	26	W1/2	2	255	450	\$25.63
AK11059	16	16	96	64	64	32	32	W5/8	2	480	900	\$38.90
AK11060	19	19	114	76	76	38	38	W3/4	2	795	1,100	\$69.43

* Material: SCS13 (equivalent to SUS304), Pin/set screw = SUS304



D-Shackle with Square Head Pin

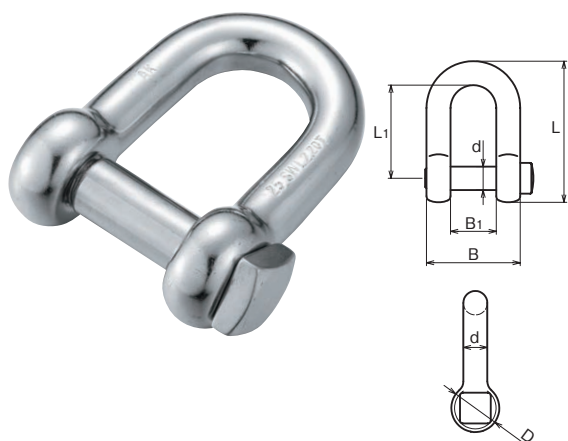


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2049	6	6	36	24	24	12	12	W1/4	25	140	\$4.08
AK2050	7	7	42	28	28	14	14	W5/16	40	170	\$5.00
AK2063	8	8	48	32	32	16	16	W5/16	60	220	\$5.70
AK2051	9	9	54	36	36	18	18	W3/8	90	270	\$7.65
AK2052	10	10	60	40	40	20	20	W3/8	120	320	\$10.40
AK2053	12	12	72	48	48	24	24	W1/2	195	400	\$13.53
AK2054	13	13	78	52	52	26	26	W1/2	245	450	\$17.88
AK2055	16	16	96	64	64	32	32	W5/8	445	900	\$30.18
AK2056	19	19	114	76	76	38	38	W3/4	805	1,100	\$51.08
AK2057	22	22	132	88	88	44	44	W7/8	1,260	1,600	\$86.90

* Material: SCS13 (equivalent to SUS304), Pin = SUS304



D-Shackle with Square Head Pin (Forged)

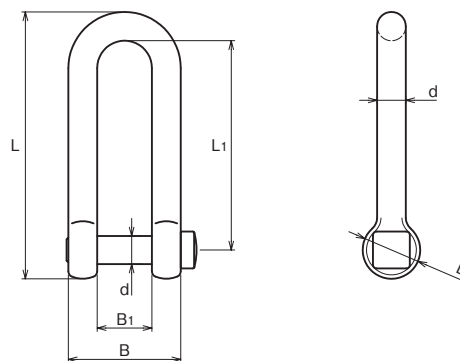


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11321	5	5	30	20	20	10	10	M5	15	70	\$2.53
AK11322	6	6	38	26	24	12	12	M6	26	140	\$3.29
AK11324	8	8	50	34	33	17	17	M8	63	220	\$4.85
AK11325	9	9	54	36	36	18	18	W3/8	83	270	\$6.25
AK11326	10	10	58	38	38	18	20	M10	108	320	\$8.62
AK11327	12	12	72	48	48	24	24	M12	195	400	\$11.33
AK11328	14	14	90	62	56	28	28	M14	323	600	\$19.35
AK11329	16	16	96	64	64	32	32	M16	450	900	\$26.75
AK11330	19	19	115	77	76	38	38	M20	766	1,100	\$44.79
AK11331	22	22	130	86	88	44	44	M22	1,181	1,600	\$70.72
AK11332	25	25	145	95.5	100	50	50	M24	1,690	2,200	\$113.35

* Material: SUS304



Long D-Shackle with Square Head Pin

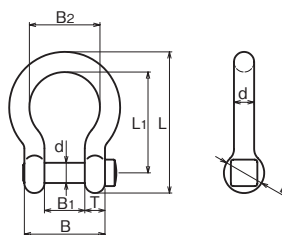


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2090	8	8	80	64	32	16	16	W5/16	95	220	\$8.53
AK2091	10	10	100	80	40	20	20	W3/8	180	320	\$13.70
AK2092	12	12	120	96	48	24	24	W1/2	300	400	\$21.70

* Material: SCS13 (equivalent to SUS304), Pin = SUS304



Bow Shackle with Square Head Pin

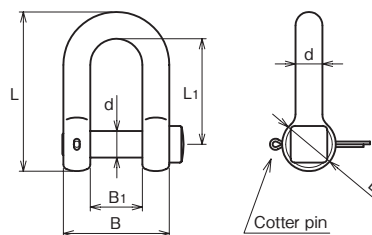


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	T (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11271	6	6	42	30	24	12	21	6	12	W1/4	35	140	\$7.23
AK11272	8	8	56	40	32	16	28	8	16	W5/16	80	220	\$9.80
AK11273	10	10	70	50	40	20	35	10	20	W3/8	145	320	\$15.48
AK11274	12	12	84	60	48	24	42	12	24	W1/2	245	400	\$21.88
AK11275	16	16	112	80	64	32	56	16	32	W5/8	575	900	\$46.93

* Material: Main body = SCS13 (equivalent to SUS304), Pin = SUS304



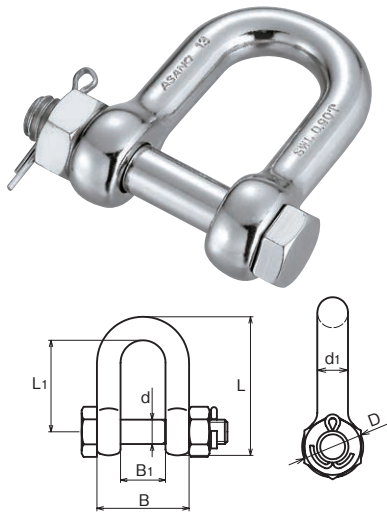
D-Shackle with Square Head Pin & Cotter Pin



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Cotter pin (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11093	13	13	78	52	52	26	26	W1/2	Φ3×40L	245	450	\$23.08
AK11094	16	16	96	64	64	32	32	W5/8	Φ4×40L	445	900	\$35.58

* Material: SCS13 (equivalent to SUS304), Pin/cotter pin = SUS304

D-Shackle with Hex Head Pin & Cotter Pin

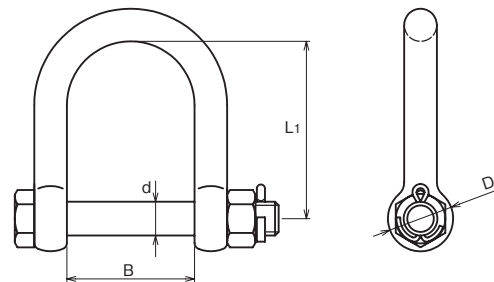


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2172	6	6	6	36	24	24	12	12	W1/4	29	180	\$9.74
AK2173	7	8	7	42	28	28	14	14	W5/16	51	250	\$10.77
AK2174	8	8	8	48	32	32	16	16	W5/16	72	300	\$12.78
AK2175	9	10	9	54	36	36	18	18	W3/8	110	400	\$15.45
AK2176	10	10	10	60	40	40	20	20	W3/8	139	600	\$17.99
AK2177	12	13	12	72	48	48	24	24	W1/2	230	750	\$23.85
AK2178	13	13	13	78	52	52	26	26	W1/2	310	900	\$26.65
AK2179	16	16	16	96	64	64	32	32	W5/8	528	1,500	\$50.92
AK2180	19	19	19	114	76	76	38	38	W3/4	994	2,000	\$78.91
AK2181	22	22	22	132	88	88	44	44	W7/8	1,470	2,500	\$107.05
AK2182	25	25	25	145	95.5	100	50	49	M24	2,000	3,200	\$161.00
AK2183	28	28	28	162	107	112	56	54	M27	2,900	4,000	\$246.50
AK2184	32	32	32	197	133	130	66	64	M33	4,900	5,000	\$397.50

* Material: Sizes 6 to 22 mm: SCS13 (equivalent to SUS304), Pin/cotter pin = SUS304
 Sizes 25 to 32 mm: SUS304



Wide D-Shackle with Hex Head Bolt & Cotter Pin

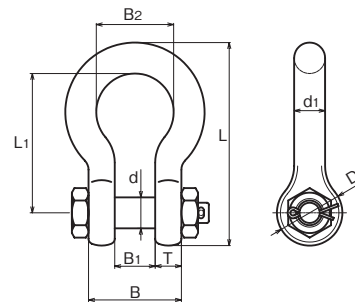


No.	Size	d (mm)	L ₁ (mm)	B (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2150	9	8	50	36	20	M8	120	220	\$20.80
AK2151	12	12	60	56	24	M12	290	350	\$26.35

* Material: SCS14 (equivalent to SUS316), Pin = SUS316, Nut/cotter pin = SUS304



Anchor Shackle with Hex Head Pin & Cotter Pin



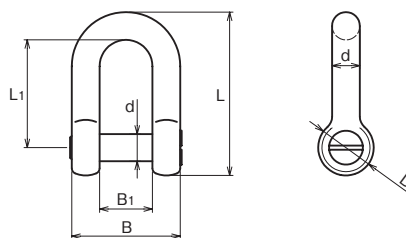
No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	T (mm)	D (mm)	Thread dia.	Unit weight (kg)	Working load limit (t)	List price
AK2120	20	24	23	152	104	72	31	58	20	50	M24	1.9	1.7	\$265.50
AK2121	22	26	26	170	117	78	34	65	22	55	M24	2.0	2.5	\$407.00
AK2122	24	30	28	185	126	87	39	70	24	62	M30	3.8	3.4	\$553.00
AK2124	28	34	32	212	144	99	43	80	28	70	M33	5.1	4.3	\$922.50

● The diameter of the pin is thickened for strength.

* Material: Main body = SCS13 (equivalent to SUS304), Pin = SUS304



D-Shackle with Sink Head Pin

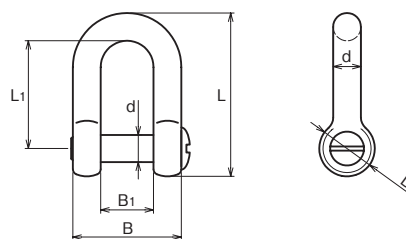


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2099	6	6	36	24	24	12	12	W1/4	25	90	\$4.48
AK2100	7	7	42	28	28	14	14	W5/16	40	110	\$5.10
AK2113	8	8	48	32	32	16	16	W5/16	60	140	\$6.10
AK2101	9	9	54	36	36	18	18	W3/8	80	170	\$7.70
AK2102	10	10	60	40	40	20	20	W3/8	110	200	\$10.35
AK2103	12	12	72	48	48	24	24	W1/2	190	280	\$13.95
AK2104	13	13	78	52	52	26	26	W1/2	240	400	\$19.10
AK2105	16	16	96	64	64	32	32	W5/8	435	600	\$30.03
AK2106	19	19	114	76	76	38	38	W3/4	750	720	\$52.25
AK2107	22	22	132	88	88	44	44	W7/8	1,170	1,040	\$83.55

* Material: SCS13 (equivalent to SUS304), Pin = SUS304



D-Shackle with Sink Head Pin (Forged)

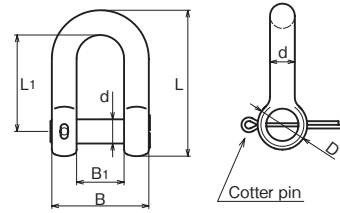


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK11340	4	4	23	15	16	8	8	M4	8	40	\$2.32
AK11341	5	5	30	20	20	10	10	M5	14	70	\$2.71
AK11342	6	6	38	26	24	12	12	M6	24	90	\$3.26
AK11344	8	8	50	34	33	17	17	M8	59	140	\$4.79
AK11345	9	9	54	36	36	18	18	W3/8	76	170	\$6.14
AK11346	10	10	58	38	38	18	20	M10	100	200	\$8.50
AK11347	12	12	72	48	48	24	24	M12	186	280	\$11.19
AK11348	14	14	90	62	56	28	28	M14	310	450	\$20.05
AK11349	16	16	92	60	64	32	32	M16	431	600	\$27.47
AK11350	19	19	115	77	76	38	38	M20	715	720	\$45.73
AK11351	22	22	130	86	88	44	44	M22	1,103	1,040	\$71.55
AK11352	25	25	145	95.5	100	50	50	M24	1,640	1,430	\$114.60
AK11353	28	28	162	107	112	56	54	M27	2,250	2,210	\$187.75
AK11354	32	32	197	133	130	66	64	M33	3,460	2,800	\$278.90

* Material: SUS304



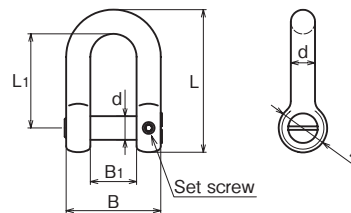
D-Shackle with Sink Head Pin & Cotter Pin



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Cotter pin (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11123	7	7	42	28	28	14	14	W5/16	Φ3×20L	40	110	\$10.30
AK11124	8	8	48	32	32	16	16	W5/16	Φ3×25L	60	140	\$11.10
AK11125	9	9	54	36	36	18	18	W3/8	Φ3×30L	80	170	\$12.40
AK11126	10	10	60	40	40	20	20	W3/8	Φ3×30L	110	200	\$14.55
AK11127	12	12	72	48	48	24	24	W1/2	Φ3×40L	190	280	\$18.25
AK11128	13	13	78	52	52	26	26	W1/2	Φ3×40L	240	400	\$23.10
AK11129	16	16	96	64	64	32	32	W5/8	Φ4×40L	435	600	\$35.43
AK11130	19	19	114	76	76	38	38	W3/4	Φ4×45L	750	720	\$67.75

* Material: SCS13 (equivalent to SUS304), Pin/cotter pin = SUS304

D-Shackle with Sink Head Pin & Safety Socket Screw

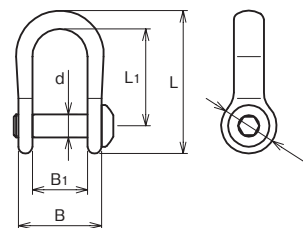


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11073	7	7	42	28	28	14	14	W5/16	1.5	40	110	\$14.10
AK11074	8	8	48	32	32	16	16	W5/16	2	60	140	\$14.90
AK11075	9	9	54	36	36	18	18	W3/8	2	80	170	\$16.30
AK11076	10	10	60	40	40	20	20	W3/8	2	110	200	\$18.75
AK11077	12	12	72	48	48	24	24	W1/2	2	190	280	\$22.05
AK11078	13	13	78	52	52	26	26	W1/2	2	240	400	\$27.80
AK11079	16	16	96	64	64	32	32	W5/8	2	435	600	\$39.93
AK11080	19	19	114	76	76	38	38	W3/4	2	750	720	\$68.73

* Material: SCS13 (equivalent to SUS304), Pin/set screw = SUS304



Semi Round D-Shackle with Hex Socket Pin



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2025	5	5	31	21	18	12	12	M5	16	40	\$2.94

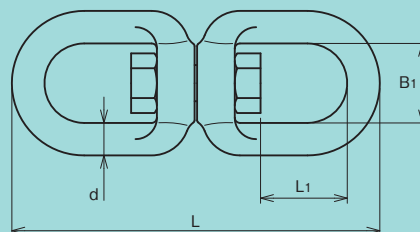
* Material: SCS13 (equivalent to SUS304), Pin = SUS304

HS Swivel

Product features



The material used for this product has superior seawater resistance compared to our conventional swivels.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK14101	6	6	71	17	15	60	130	\$8.90

●The seawater resistance is superior to the Swivel.

*Material: Special stainless steel, Pin/nut = SUS316

*Do not use under conditions of constant rotation.

Swivel Joint

Product features

With collar



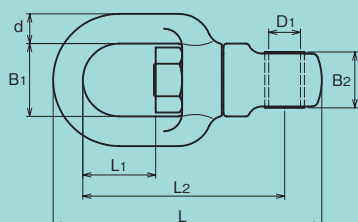
It moves smoothly even when the shackle is tightened.

Combination example

The picture is a combination example of the D-Shackle with Hex Socket Pin & O-Ring.



D-Shackle with Hex Socket Pin & O-Ring (P049)
(sold separately)



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B ₁ (mm)	B ₂ (mm)	D ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK14013	9	9	81	22	61	22	17	9.5	200	290	\$18.40
AK14016	13	13	116	32	88	31	25	13.5	400	600	\$37.00
AK14017	16	16	141	42	107	38	31	16.5	700	1,000	\$63.00
AK14018	19	21	169	51	127	42	37	20	1,100	1,600	\$103.50

*Material: SCS13 (equivalent to SUS304), Pin/nut = SUS304, Collar = brass

*The collar is not fixed. Be sure not to lose it.

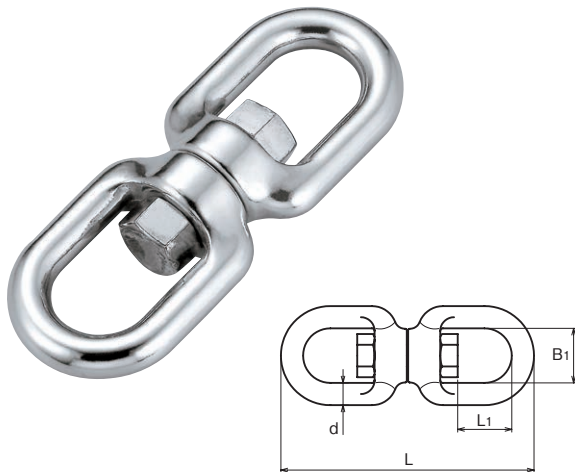
*Do not use under conditions of constant rotation.

*The shackle is sold separately.

*Please note that shackles from other companies may not be compatible.

*When combining with a shackle, check if the shackle is not loose before using.

Swivel

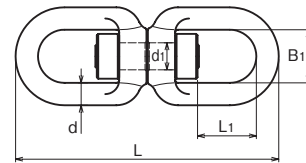


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK2199	4	4	51	11	11	22	50	\$5.33
AK2200	5	5	60	14	13	39	80	\$6.09
AK2201	6	6	71	17	15	60	130	\$7.20
AK2202	8	8	94	20	20	147	250	\$11.01
AK2203	9	9	102	22	22	200	290	\$13.50
AK2204	10	10	118	27	24	285	300	\$18.28
AK2215	12	12	132	27	25	420	600	\$31.30
AK2205	13	13	152	35	31	605	600	\$36.08
AK2206	16	16	188	45	38	1,100	1,000	\$62.50
AK2207	19	21	229	52	42	2,250	1,600	\$119.75
AK2208	22	23.5	248	52	47	3,130	2,100	\$189.95
AK2209	25	26	291	66	63	4,820	2,600	\$317.30
AK2210	28	29	340	76	70	6,600	3,200	\$549.00
AK2211	32	33	389	87	80	9,500	4,200	\$782.50

* Material: Main body = SCS13 (equivalent to SUS304), Pin/nut = SUS304

* Do not use under conditions of constant rotation.

Swivel with Thick Pin

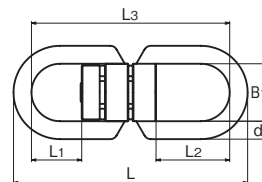


No.	Size	d	d ₁	L	L ₁	B ₁	Unit weight (g)	Working load limit (kg)	List price
AK2217	13	13	16	152	31	31	640	1,000	\$59.50
AK2218	16	16	19	188	41	38	1,180	1,600	\$110.70
AK2219	19	21	22	229	50	42	2,190	1,950	\$172.85

* Material: Main body = SCS13 (equivalent to SUS304), Pin/nut = SUS304

* Do not use under conditions of constant rotation.

Swivel with Bearing

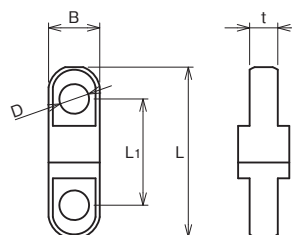


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK2220	10	10	130	27	41	110	32	410	300	\$119.15
AK2221	13	13	160	33	49	134	38	800	600	\$143.00
AK2222	16	16	182	35	53	150	42	1,300	1,000	\$199.50
AK2223	19	19	222	48	67	184	45	1,800	1,600	\$291.00
AK2224	22	22	256	58	78	212	50	2,600	2,100	\$414.00
AK2225	25	25	280	61	84	230	55	3,600	2,600	\$548.00

* Material: SUS304

* Do not use under conditions of constant rotation.

Heavy Swivel

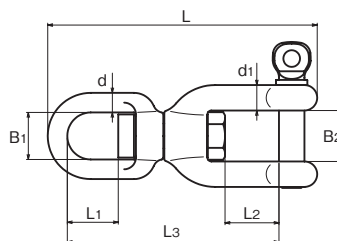


No.	Size	L (mm)	L ₁ (mm)	B (mm)	D (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK2361	7	23.5	14	7	3.5	4	4	80	\$2.86
AK2363	9	31.5	19.5	9	5	5	9	130	\$3.54
AK2364	10.5	35.5	21.5	10.5	6	6	13	150	\$4.40

* Material: SUS303

* Do not use under conditions of constant rotation.

Swivel (Eye & Jaw)

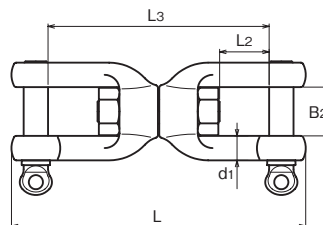
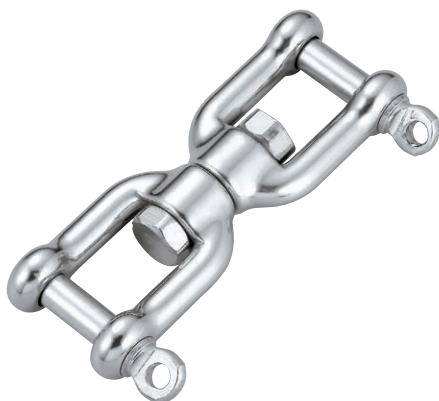


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B ₁ (mm)	B ₂ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4256	6	6	6	62	15	11	51	15	12	M6	60	120	\$10.90
AK4257	8	8	8	90	22	17	71	21	16	M8	150	200	\$17.35
AK4258	10	10	10	113	27	22	90	24	20	M10	290	300	\$29.25
AK4251	13	10	13	138	26	26	108	24	26	W1/2	500	400	\$51.40
AK4252	16	13	16	173	35	33	136	31	32	W5/8	970	600	\$96.05
AK4253	19	16	19	209	41	39	164	38	38	W3/4	1,650	1,000	\$166.75
AK4254	22	21	22	247	49	45	193	42	44	W7/8	2,650	1,600	\$252.75

* Material: SCS13 (equivalent to SUS304), Pin/nut = SUS304

* Do not use under conditions of constant rotation.

Swivel (Jaw & Jaw)

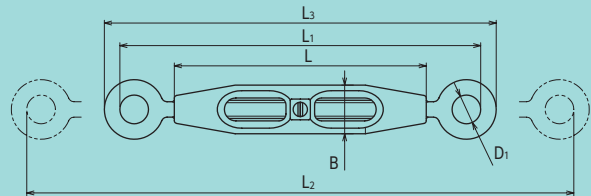
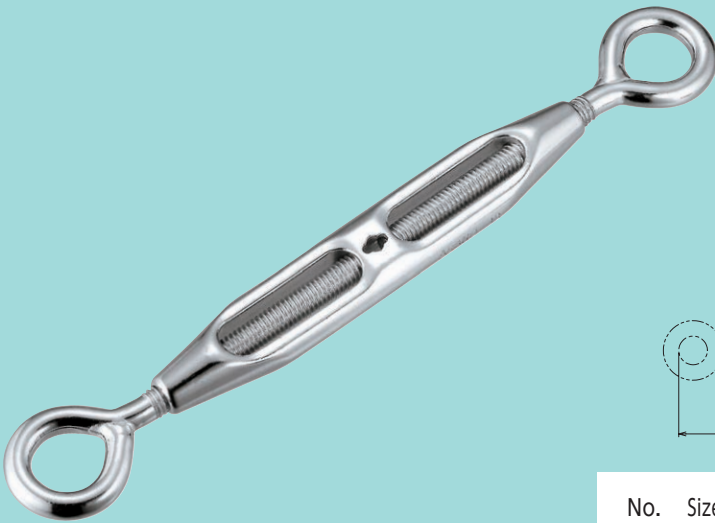


No.	Size	d ₁ (mm)	L (mm)	L ₂ (mm)	L ₃ (mm)	B ₂ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4266	6	6	64	11	48	12	M6	64	120	\$14.16
AK4267	8	8	87	16	66	16	M8	164	200	\$21.16
AK4268	10	10	113	22	86	20	M10	324	300	\$33.56
AK4261	13	13	157	26	118	26	W1/2	680	400	\$58.90
AK4262	16	16	193	33	145	32	W5/8	1,280	600	\$109.70
AK4263	19	19	229	39	172	38	W3/4	2,050	1,000	\$184.75
AK4264	22	22	265	45	199	44	W7/8	3,300	1,600	\$284.50

* Material: Main body = SCS13 (equivalent to SUS304), Pin/nut = SUS304

* Do not use under conditions of constant rotation.

Turnbuckle Type HG (Eye & Eye)



This can be rotated by drivers, monkey wrenches, and other tools.



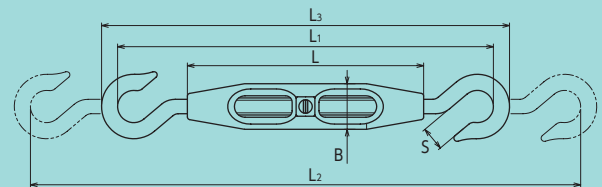
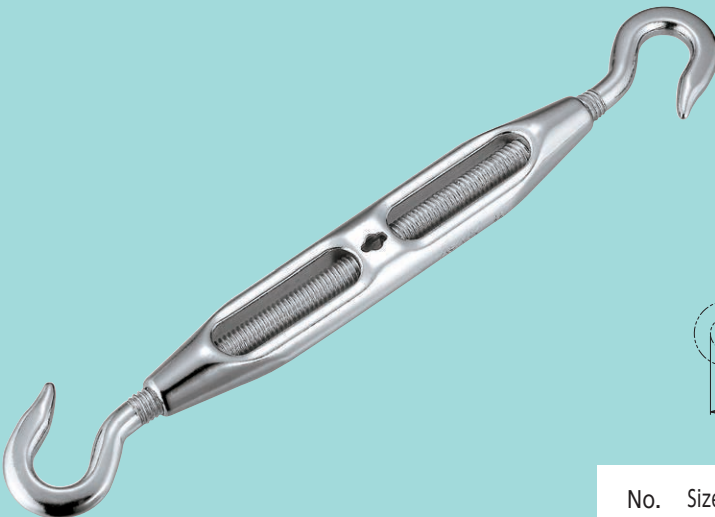
No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2409	5	70	105	143	114	13	10	W3/16	48	80	\$11.72
AK2410	6	88	126	171	137	17	10	W1/4	90	125	\$18.35
AK2411	8	125	175	248	189	21	14	W5/16	195	285	\$22.93
AK2412	9	155	217	272	233	24	19	W3/8	350	410	\$32.25
AK2413	12	212	318	453	340	34	26	W1/2	790	600	\$55.85
AK2414	16	250	375	533	403	42	25×40	W5/8	1,480	900	\$105.20

● A high-grade type made entirely of SUS316. The strength of the main body is also improved.

* Material: Main body = SCS14 (equivalent to SUS316), Eye bolt = SUS316

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Type HG (Hook & Hook)



This can be rotated by drivers, monkey wrenches, and other tools.



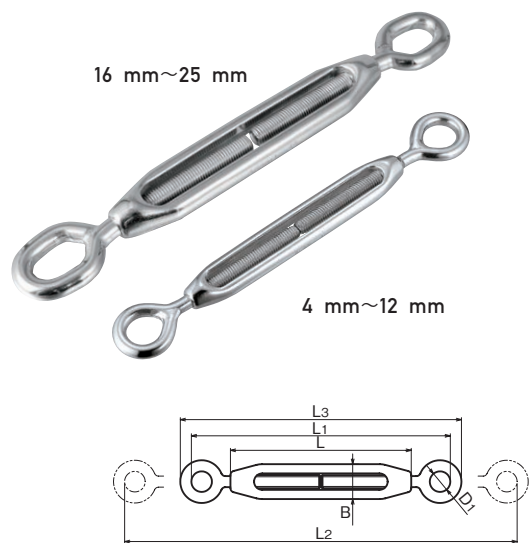
No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2419	5	70	110	148	119	13	6	W3/16	36	50	\$11.54
AK2420	6	88	140	185	140	17	9	W1/4	75	75	\$18.13
AK2421	8	125	189	262	205	21	10	W5/16	160	125	\$22.40
AK2422	9	155	231	286	250	24	13	W3/8	275	175	\$31.13
AK2423	12	212	303	438	329	34	17	W1/2	590	375	\$52.85
AK2424	16	250	368	526	400	42	22	W5/8	1,270	600	\$102.05

● A high-grade type made entirely of SUS316. The strength of the main body is also improved.

* Material: Main body = SCS14 (equivalent to SUS316), Hook bolt = SUS316

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Eye & Eye)

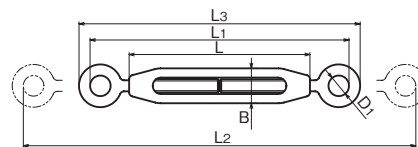
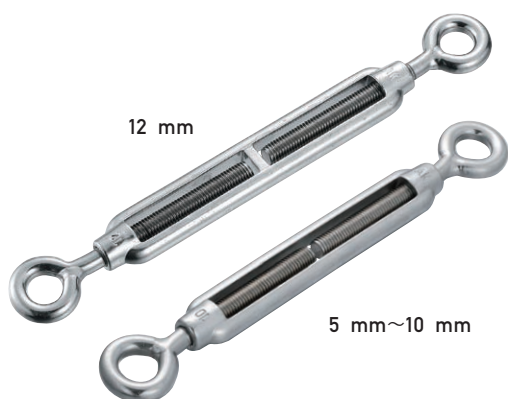


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2508	4	61	93	142	100	11	10	M4	22	70	\$7.63
AK2499	5	70	105	161	114	13	10	W3/16	45	80	\$8.58
AK2500	6	88	126	191	137	17	10	W1/4	80	125	\$13.40
AK2501	8	125	175	272	189	21	14	W5/16	175	285	\$16.43
AK2502	9	155	217	340	233	25	19	W3/8	300	410	\$22.40
AK2503	12	212	318	490	340	34	26	W1/2	730	600	\$42.95
AK2504	16	250	375	577	403	42	25x40	W5/8	1,210	900	\$78.65
AK2505	19	300	435	677	469	50	25x40	W3/4	2,300	1,070	\$136.50
AK2506	22	325	487	737	527	60	30x48	W7/8	3,592	2,100	\$303.88
AK2507	25	350	532	788	578	70	34x54	W1	5,521	2,700	\$474.82

* Material: SCS14 (equivalent to SUS316), Eye bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Eye & Eye), Metric Thread



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13311	5	69	112	162	120	14	8	M5	45	80	\$6.68
AK13312	6	89	131	207	141	19	10	M6	83	125	\$9.05
AK13313	8	120	178	268	192	22	14	M8	175	285	\$13.23
AK13314	10	151	217	338	235	24	16	M10	295	410	\$20.43
AK13315	12	201	284	439	304	32	18	M12	570	550	\$37.05

* Material: SCS13 (equivalent to SUS304), Eye bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Hook & Eye)

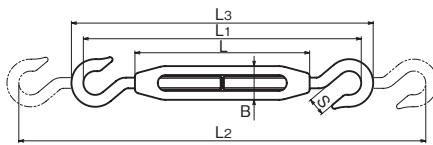


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13005	4	61	90	138	97	11	6	10	M4	21	40	\$7.62
AK13006	5	70	108	164	117	13	6	10	W3/16	44	50	\$8.56
AK13007	6	88	133	198	145	17	9	10	W1/4	78	75	\$13.37
AK13008	8	125	182	279	197	21	10	14	W5/16	173	125	\$16.40
AK13009	9	155	224	347	242	25	13	19	W3/8	286	175	\$22.19
AK13010	12	212	311	483	335	34	17	26	W1/2	698	375	\$42.47
AK13011	16	250	372	574	402	42	22	25x40	W5/8	1,150	600	\$77.75
AK13012	19	300	437	679	474	50	25	25x40	W3/4	2,250	800	\$135.75
AK13013	22	325	488	738	531	60	31	30x48	W7/8	3,562	1,000	\$303.43
AK13014	25	350	534	790	584	70	36	34x54	W1	5,393	1,350	\$472.90

* Material: SCS14 (equivalent to SUS316), Hook & Eye bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Hook & Hook)

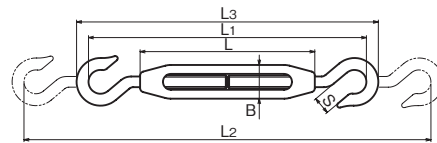
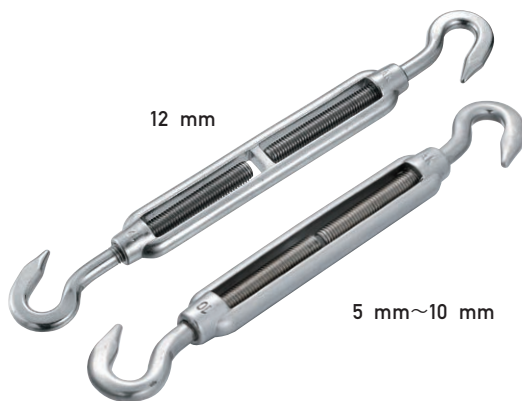


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2518	4	61	86	135	94	11	6	M4	20	40	\$7.60
AK2509	5	70	110	166	119	13	6	W3/16	43	50	\$8.55
AK2510	6	88	140	205	152	17	9	W1/4	75	75	\$13.33
AK2511	8	125	189	286	205	21	10	W5/16	170	125	\$16.35
AK2512	9	155	231	354	250	25	13	W3/8	272	175	\$21.98
AK2513	12	212	303	475	329	34	17	W1/2	665	375	\$41.98
AK2514	16	250	368	570	400	42	22	W5/8	1,090	600	\$76.85
AK2515	19	300	438	680	478	50	25	W3/4	2,200	800	\$135.00
AK2516	22	325	489	739	535	60	31	W7/8	3,532	1,000	\$302.98
AK2517	25	350	536	792	590	70	36	W1	5,265	1,350	\$470.98

* Material: SCS14 (equivalent to SUS316), Hook bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Hook & Hook), Metric Thread

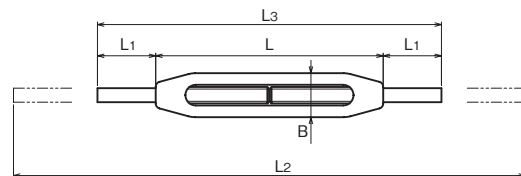


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13301	5	69	112	174	124	14	9	M5	45	50	\$6.68
AK13302	6	89	141	206	155	18	9	M6	83	75	\$9.05
AK13303	8	119	186	276	203	22	11	M8	170	125	\$13.15
AK13304	10	151	227	342	245	24	12	M10	288	175	\$20.82
AK13305	12	201	297	452	320	31	14	M12	563	275	\$36.45

* Material: SCS13 (equivalent to SUS304), Hook bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Frame Body (Stud & Stud)

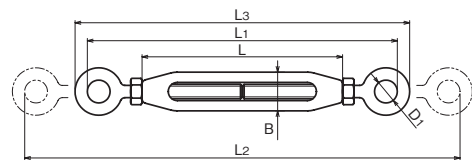


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2543	6	88	35	223	158	17	W1/4	58	125	\$10.27
AK2544	8	125	40	302	205	21	W5/16	128	285	\$14.82
AK2545	9	155	45	368	245	25	W3/8	264	410	\$21.26
AK2546	12	212	50	484	312	34	W1/2	609	600	\$36.64
AK2547	16	250	60	572	370	42	W5/8	780	900	\$69.70
AK2548	19	300	75	692	450	50	W3/4	1,570	1,070	\$119.55
AK2549	22	325	90	755	505	60	W7/8	3,054	2,100	\$290.81
AK2550	25	350	100	806	550	70	W1	4,615	2,700	\$436.23

* Material: SCS14 (equivalent to SUS316), Stud bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

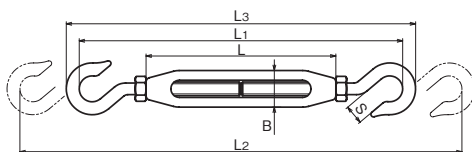
Turnbuckle, Frame Body with Nut (Eye & Eye)



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13100	4	61	99	142	106	11	10	M4	27	70	\$10.41
AK13101	5	70	113	161	122	13	10	W3/16	44	80	\$11.66
AK13102	6	88	136	191	147	17	10	W1/4	86	125	\$17.79
AK13103	8	125	188	272	202	21	14	W5/16	183	285	\$21.25
AK13104	9	155	233	340	249	25	19	W3/8	312	410	\$26.68
AK13105	12	212	338	490	360	34	26	W1/2	760	600	\$49.40
AK13106	16	250	401	577	429	42	25×40	W5/8	1,264	900	\$87.96

* Material: SCS14 (equivalent to SUS316), Eye bolt = SUS304
 * L₂ indicates the dimension at the maximum extended length.

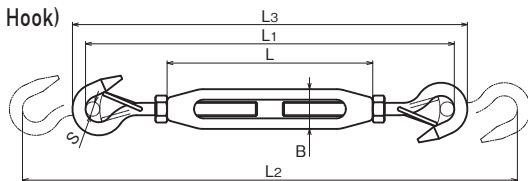
Turnbuckle, Frame Body with Nut (Hook & Hook)



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13110	4	60	92	135	100	11	6	M4	24	40	\$10.36
AK13111	5	70	118	166	127	13	6	W3/16	42	50	\$11.63
AK13112	6	88	150	205	162	17	9	W1/4	81	75	\$17.72
AK13113	8	125	203	286	219	21	10	W5/16	178	125	\$21.17
AK13114	9	155	247	354	266	25	13	W3/8	284	175	\$26.26
AK13115	12	212	323	475	349	34	17	W1/2	695	375	\$48.43
AK13116	16	250	394	570	426	42	22	W5/8	1,144	600	\$86.16

* Material: SCS14 (equivalent to SUS316), Hook bolt = SUS304
 * L₂ indicates the dimension at the maximum extended length.

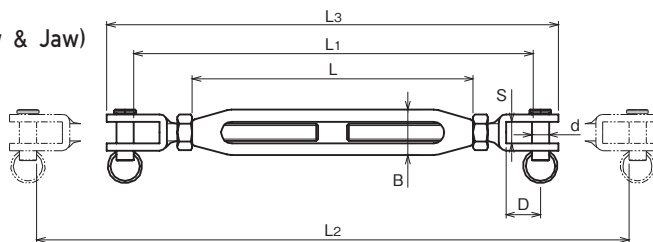
Turnbuckle, Frame Body with Safety Latch (Hook & Hook)



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13352	6	88	158	212	169	17	6	M6	90	75	\$11.35
AK13353	8	125	203	289	217	21	6	M8	195	125	\$18.93
AK13354	10	155	248	357	265	25	8	M10	350	175	\$27.25
AK13355	12	212	337	514	357	34	13.5	M12	680	275	\$41.20

* Material: SCS14 (equivalent to SUS316), Hook bolt = SUS304
 * L₂ indicates the dimension at the maximum extended length.

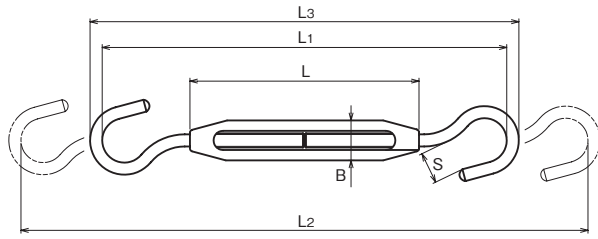
Turnbuckle, Frame Body with Nut (Jaw & Jaw)



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13244	9	9	155	220	327	249	25	12	19	W3/8	361	410	\$37.42
AK13245	12	12	212	298	450	336	34	14	26	W1/2	753	600	\$59.30
AK13246	16	14	250	356	532	404	42	21	32	W5/8	1,490	900	\$120.35

* Material: SCS14 (equivalent to SUS316), Jaw bolt = SUS304
 * L₂ indicates the dimension at the maximum extended length.

Turnbuckle for Swimming Pool

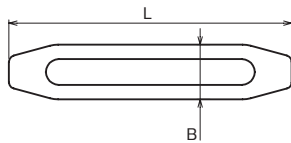


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2560	9	155	260	375	276	25	20	W3/8	340	175	\$30.10
AK2561	12	210	340	520	364	34	20	W1/2	730	375	\$50.95

* Material: Main body = SCS14 (equivalent to SUS316), Hook bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Body



[Inch]

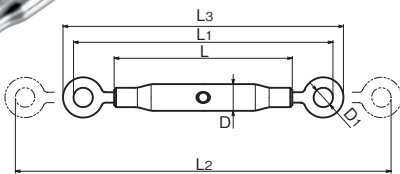
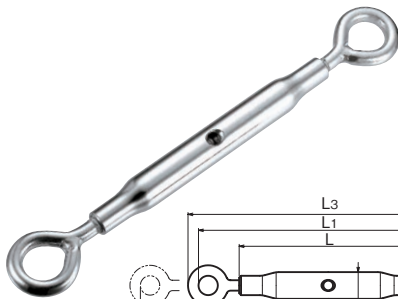
No.	Size	L (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK13322	6	88	17	W1/4	46	\$8.79
AK13323	8	125	21	W5/16	96	\$11.24
AK13324	9	155	25	W3/8	175	\$15.33
AK13325	12	212	34	W1/2	345	\$27.08
AK13326	16	250	42	W5/8	695	\$50.73
AK13327	19	300	50	W3/4	1,175	\$86.63
AK13328	22	325	60	W7/8	1,830	\$197.45
AK13329	25	350	70	W1	2,865	\$307.98

* Material: SCS14 (equivalent to SUS316)

[Metric]

No.	Size	L (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK13332	M6	88	17	M6	46	\$8.79
AK13333	M8	125	21	M8	96	\$11.24
AK13334	M10	155	25	M10	175	\$15.33
AK13335	M12	212	34	M12	345	\$27.08
AK13336	M16	250	42	M16	695	\$50.73
AK13337	M20	300	50	M20	1,175	\$86.63
AK13338	M22	325	60	M22	1,830	\$197.45
AK13339	M24	350	70	M24	2,865	\$307.98

Turnbuckle, Pipe Body (Eye & Eye)

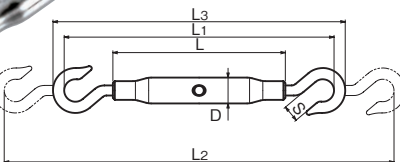
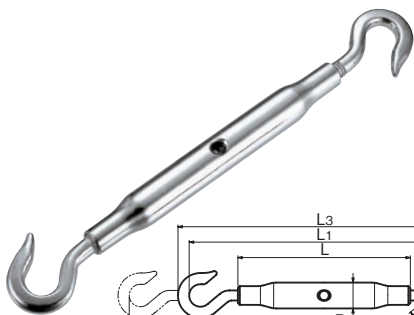


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2520	6	92	134	194	145	13.8	10	W1/4	80	125	\$27.60
AK2521	8	132	182	277	196	17.3	14	W5/16	190	285	\$35.75
AK2522	9	162	224	343	240	21.7	19	W3/8	340	410	\$40.10
AK2523	12	206	318	480	340	25.4	26	W1/2	660	600	\$67.90
AK2524	16	247	375	572	403	27.2	25×40	W5/8	1,100	900	\$108.50
AK2525	19	300	435	675	469	34	25×40	W3/4	1,860	1,070	\$211.90
AK2526	22	325	487	737	527	42.7	30×48	W7/8	2,986	2,100	\$440.79
AK2527	25	350	532	792	578	45	34×54	W1	4,282	2,700	\$657.23

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Pipe Body (Hook & Hook)

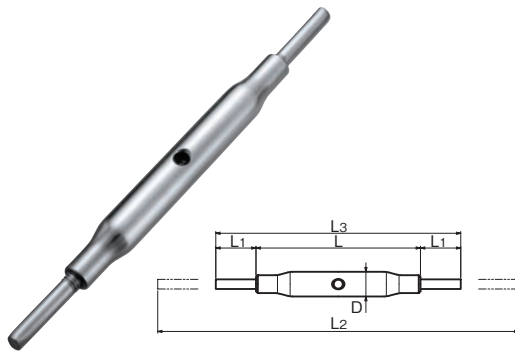


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2530	6	92	144	208	156	13.8	9	W1/4	78	75	\$27.57
AK2531	8	132	196	291	212	17.3	10	W5/16	182	125	\$35.63
AK2532	9	162	238	357	257	21.7	13	W3/8	322	175	\$39.83
AK2533	12	206	303	465	329	25.4	17	W1/2	590	375	\$66.85
AK2534	16	247	368	565	400	27.2	22	W5/8	980	600	\$106.70
AK2535	19	300	438	678	478	34	25	W3/4	1,760	800	\$210.40
AK2536	22	325	489	739	535	42.7	31	W7/8	2,814	1,000	\$438.21
AK2537	25	350	536	796	590	45	36	W1	4,026	1,350	\$653.39

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle, Pipe Body (Stud & Stud)

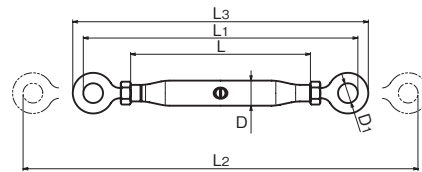


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2583	6	92	35	222	162	13.8	W1/4	58	125	\$24.47
AK2584	8	132	40	307	212	17.3	W5/16	82	285	\$32.63
AK2575	9	162	45	371	252	21.7	W3/8	304	410	\$38.66
AK2576	12	206	53	474	312	25.4	W1/2	539	600	\$61.09
AK2577	16	247	61	567	370	27.2	W5/8	670	900	\$99.55
AK2578	19	300	75	690	450	34	W3/4	1,130	1,070	\$194.95
AK2579	22	325	90	755	505	42.7	W7/8	2,400	2,100	\$427.00
AK2580	25	350	100	810	550	45	W1	3,376	2,700	\$618.64

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Type S, Pipe Body (Eye & Eye)

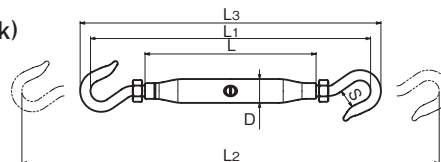


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2800	5	80	126	176	134	11	9	M5	40	80	\$13.60
AK2801	6	91	139	200	149	12.7	10	M6	65	110	\$15.98
AK2802	8	112	178	260	192	13.8	14	M8	135	260	\$20.03
AK2803	10	130	216	316	234	15.8	20	M10	240	350	\$23.60
AK2804	12	150	264	384	284	19	25	M12	415	450	\$39.23

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Type S, Pipe Body (Hook & Hook)

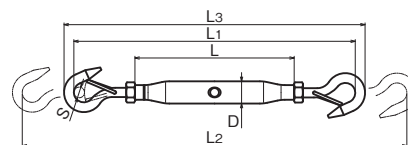


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2810	5	80	126	180	136	11	8	M5	45	30	\$13.68
AK2811	6	91	147	212	159	12.7	9	M6	70	50	\$16.05
AK2812	8	112	180	258	194	13.8	10	M8	130	80	\$19.95
AK2813	10	130	212	312	230	15.8	12	M10	225	100	\$23.38
AK2814	12	150	250	370	272	19	15	M12	360	150	\$38.40

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Type S, Pipe Body with Safety Latch (Hook & Hook)

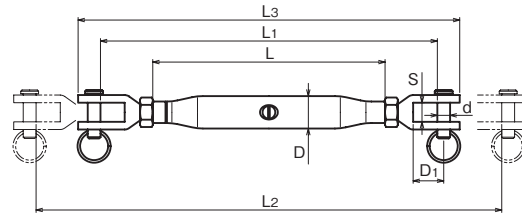


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	S (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK13362	6	91	160	220	172	12.7	6	M6	70	50	\$13.55
AK13363	8	112	193	283	208	13.8	6	M8	145	80	\$19.18
AK13364	10	130	234	335	252	15.8	8	M10	235	100	\$27.53
AK13365	12	150	278	398	300	19	13.5	M12	430	150	\$42.45

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Type S, Pipe Body (Jaw & Jaw)

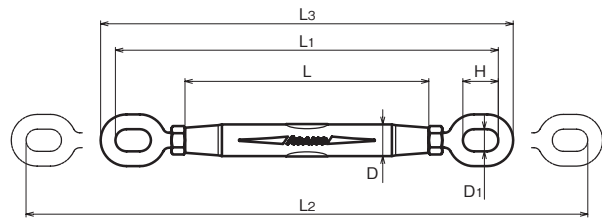


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	S (mm)	D (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2569	5	5	80	124	180	140	7	11	12	M5	60	80	\$19.90
AK2570	6	5	91	132	200	150	7	12.7	12	M6	80	110	\$21.20
AK2571	8	6	112	162	240	182	10	13.8	13	M8	140	300	\$26.10
AK2572	10	8	120	177	270	202	11	15.8	16	M10	220	430	\$34.30
AK2573	12	12	150	235	350	280	14	19	26	M12	450	650	\$53.75

* Material: SUS304

* L₂ indicates the dimension at the maximum extended length.

Turnbuckle Eye & Eye

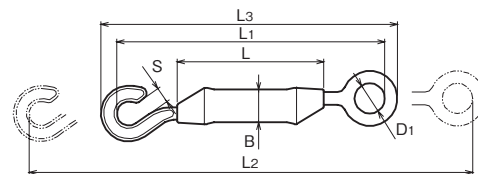
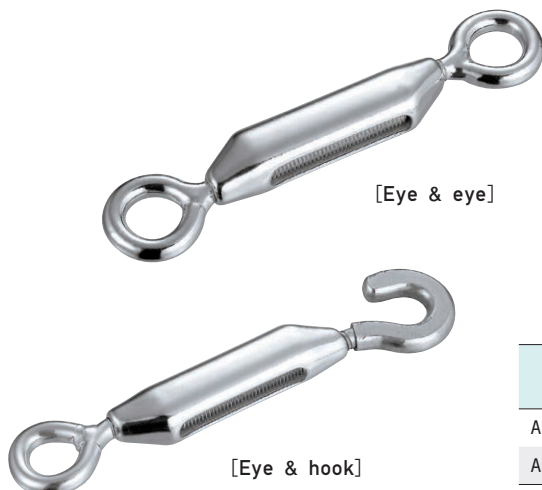


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	D (mm)	D ₁ (mm)	H (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2566	22	330	532	732	572	42	30	48	W7/8	3,440	2,100	\$551.60

* Material: Special stainless steel, Eye bolt = SUS304

* L₂ indicates the dimension at the maximum extended length.

Liferaft Turnbuckle



No.	Type	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	S (mm)	D ₁ (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK2540	Eye & eye	97	159	275	175	22	—	19	W3/8	300	410	\$44.50
AK2541	Eye & hook	97	168	284	197	22	10	19	W3/8	300	240	\$45.50

* Material: Main body = SCS13 (equivalent to SUS304), Eye bolt = SUS304, Hook bolt = SCS13

* L₂ indicates the dimension at the maximum extended length.

Chain Shackle



[Nylon cover]
W/o thread



[Brass cover]
W/thread

Product features

Development of ASANO original shackles

The O-shaped shackle enables firmer linking with ropes and chains compared to conventional shackles.



[Usage example: Linking chains]

[Nylon cover]

No.	Size	d (mm)	d ₁ (mm)	L ₁ (mm)	B ₁ (mm)	S (mm)	D (mm)	D ₁ (mm)	Thread dia.	Hex. wrench dia. (mm)	Dia. of chain (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11007	6	6	9	24	12	9	13	8.9	M6	5	6	30	140	\$5.85
AK11009	8	8	11	32	16	12	16	10.9	M8	6	8	60	220	\$8.30

* Material: SCS14 (equivalent to SUS316), Pin = SUS316, Cover = nylon

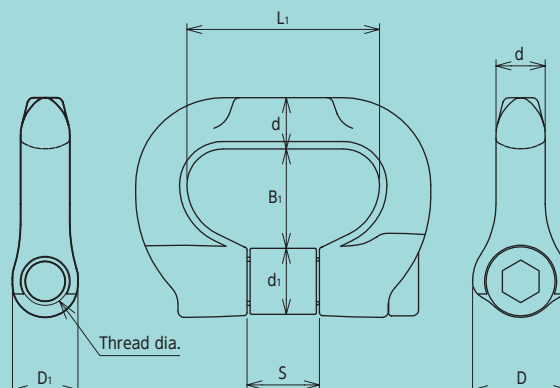
* Use a chain whose inside diameter is bigger than the D₁ dimensions shown above.

[Brass cover]

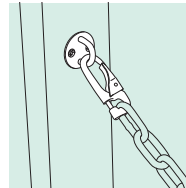
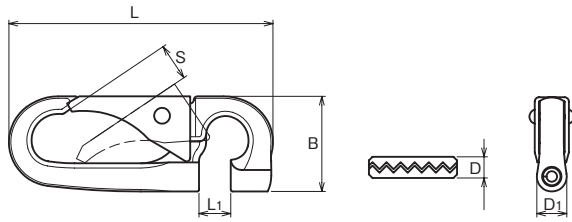
No.	Size	d (mm)	d ₁ (mm)	L ₁ (mm)	B ₁ (mm)	S (mm)	D (mm)	D ₁ (mm)	Thread dia.	Hex. wrench dia. (mm)	Dia. of chain (mm)	Unit weight (g)	Working load limit (kg)	List price
AK11027	6	6	9	24	12	9	13	8.9	M6	5	6	33	140	\$6.80
AK11029	8	8	11	32	16	12	16	10.9	M8	6	8	65	220	\$9.28

* Material: SCS14 (equivalent to SUS316), Pin = SUS316, Cover = brass

* Use a chain whose inside diameter is bigger than the D₁ dimensions shown above.



Chain Snap Type D PAT.



When locked with a spring pin, it does not come off. This chain snap is effective for theft prevention.

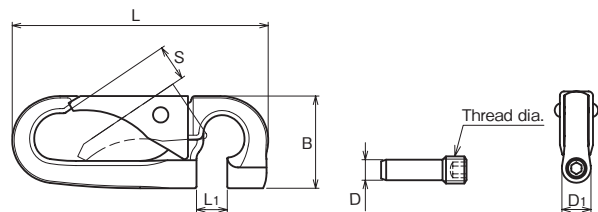
No.	Size	Dia. of chain (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1380	5	5	65	8	23.5	8	4	7.5	40	30	\$6.20
AK1381	6	6	75	9	27	9	5	8.5	50	40	\$6.55

* Material: SCS14 (equivalent to SUS316), Spring/pin = SUS304

* Use a chain whose inside diameter is bigger than the D₁ dimensions shown above.



Chain Snap Type E PAT.



This screw pin type chain snap can be removed whenever you want.

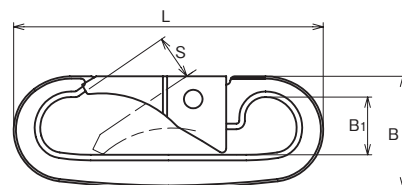
No.	Size	Dia. of chain (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	D (mm)	D ₁ (mm)	Thread dia.	Hex. wrench dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1390	5	5	65	8	23.5	8	4	7.5	M5	2.5	45	30	\$7.28
AK1391	6	6	75	9	27	9	5	8.5	M6	3	55	40	\$7.63

* Material: SCS14 (equivalent to SUS316), Spring/pin = SUS304

* Use a chain whose inside diameter is bigger than the D₁ dimensions shown above.



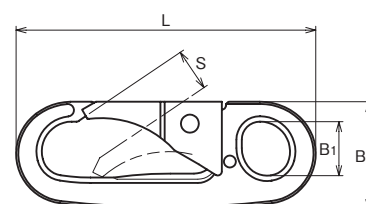
Chain Snap Type A PAT.



No.	Size	L (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1350	5	65	24	12	8	40	30	\$5.20
AK1351	6	75	27	13.5	11	50	40	\$5.55

- Best suited for connecting chains.
 - After connecting two chains, they will not intersect.
- * Material: SCS14 (equivalent to SUS316), Hook/spring = SUS304

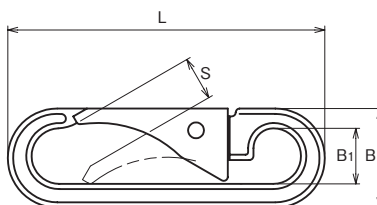
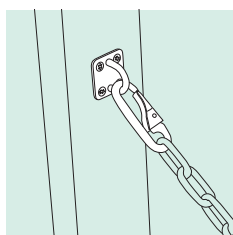
Chain Snap Type B PAT.



No.	Size	L (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1360	5	65	24	11	8	40	30	\$5.20
AK1361	6	75	27	13.5	11	50	40	\$5.55

- Best suited for connecting chains.
- * Material: SCS14 (equivalent to SUS316), Hook/spring = SUS304

Chain Snap



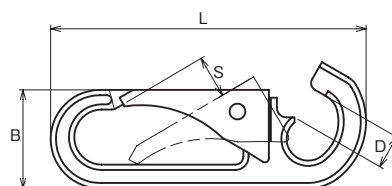
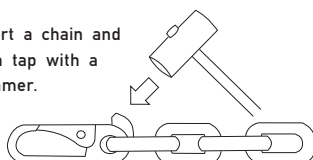
No.	Size	L (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1250	5	80	25	14	11	40	30	\$5.30

- Best suited for connecting chains.
 - After connecting two chains, they will not intersect.
- * Material: SCS13 (equivalent to SUS304), Hook/spring = SUS304

Chain Snap, Open End



Insert a chain and then tap with a hammer.

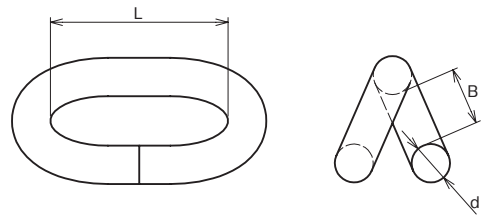


No.	Size	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1255	5	78	25	11	8	40	30	\$5.30

- * Material: SCS13 (equivalent to SUS304), Hook/spring = SUS304



Split Link

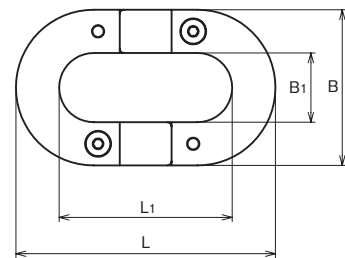


No.	Size	d (mm)	L (mm)	B (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7121	3	3	24	5	4	7	\$0.76
AK7122	4	4	26	6	8	15	\$0.92
AK7123	5	5	28	7	13	20	\$1.20
AK7124	6	6	31	9	20	30	\$1.60
AK7125	8	8	37	12	32	50	\$2.28
AK7126	9	9	40	14	47	100	\$4.61

* Material: SUS304



Connecting Link with Hex Socket Screw



No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK23427	10	60	40	36	16	80	110	\$15.20

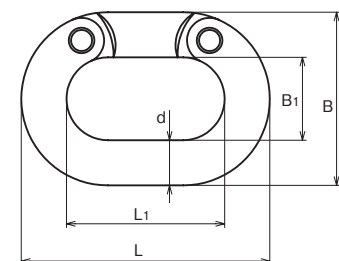
* Material: SCS14 (equivalent to SUS316), Screw = SUS316

* Screw clamping method allows disconnection.

* Note: Do not use for objects on which people ride or objects which rotate.



Connecting Link



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7150	5	5	28	18	19	9	9	60	\$3.64

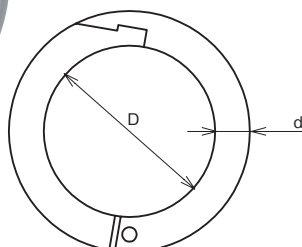
* After connecting, strike and smash the two protrusions on both sides with a hammer.

* Material: SCS13 (equivalent to SUS304)

* Sales of this product will cease when it is no longer in stock.



Chain Catch



No.	Size	d (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7130	4	4	20	7	10	\$3.31
AK7131	5	5	25	15	20	\$4.43
AK7132	6	6	30	26	30	\$4.89
AK7133	8	8	35	55	50	\$6.23
AK7134	9	9	40	77	80	\$8.36

● When the hook is caught, it is secured.

* Material: SUS304

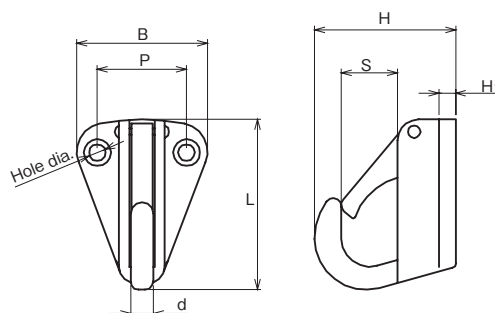
* The table above indicates dimensions of the chain catch in the closed position as shown in the figure on the left.

* Do not use to suspend objects such as slings.

* Note: It may unhook if twisted to the side.



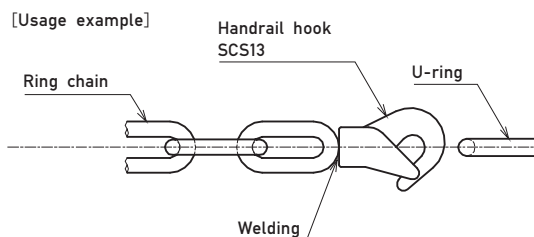
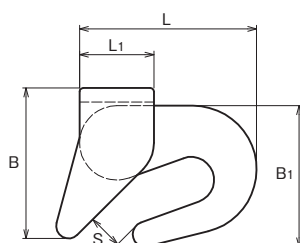
Spring Fender Hook



No.	Size	d (mm)	L (mm)	B (mm)	P (mm)	H (mm)	H ₁ (mm)	S (mm)	Hole dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK5521	No.2	5.5	41	31.5	21.5	34	4	13	4	55	15	\$13.33

* Material: Main body = SCS13 (equivalent to SUS304), Spring = SUS304

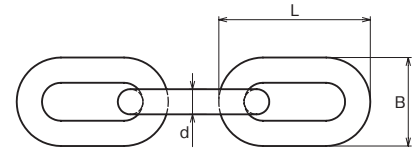
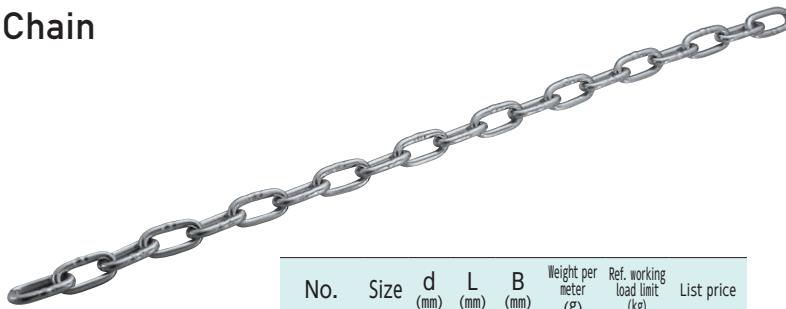
Handrail Hook



No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	List price
AK12135	9	50	21	42.5	40	10	100	\$21.50

* Material: SCS13 (equivalent to SUS304)

Chain



No.	Size	d (mm)	L (mm)	B (mm)	Weight per meter (g)	Ref. working load limit (kg)	List price
☆ AK7039	2A	2	16	7.5	68	30	\$196.60
☆ AK7040	3B	3	30	11	146	65	\$230.70
AK7041	3A	3	25	11	153	65	\$428.85
☆ AK7042	4B	4	34	14	266	120	\$341.70
AK7043	4A	4	28	14	282	120	\$543.90
☆ AK7044	5B	5	38	18	429	180	\$511.05
AK7045	5A	5	30	17	493	180	\$713.85
☆ AK7048	6B	6	43	21	633	270	\$716.85
AK7049	6A	6	36	21	694	270	\$948.30
☆ AK7050	7B	7	51	24	820	360	\$1029.00
AK7104	7C	7	51	24.5	907	360	\$1343.15

* Material: SUS304

* The price is for 30 m. However, for each of the sizes 22A and 25A, the list price is the price of a 25 m chain.

* Other lengths are also available.

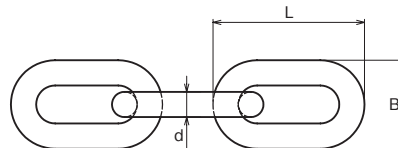
* For products with no prices listed, please ask us.

* Note: Do not use as a suspension chain.

* Articles marked with ☆ are in stock. All others are on back order.

No.	Size	d (mm)	L (mm)	B (mm)	Weight per meter (g)	Ref. working load limit (kg)	List price
☆ AK7052	8B	8	54	27	1,150	480	\$1342.50
AK7053	8A	8	48	28	1,240	480	\$1707.00
AK7105	8C	8	54	28	1,220	480	\$1797.00
☆ AK7054	9B	9	57	31	1,520	600	\$1674.00
AK7055	9A	9	54	32	1,550	600	\$2158.50
AK7115	10B	10	60	35	2,000	750	\$2300.00
AK7056	11A	11	66	39	2,400	900	\$2580.00
AK7057	13A	13	78	46	3,400	1,250	\$3630.00
AK7058	16A	16	96	56	5,100	1,900	\$5445.00
AK7059	19A	19	114	66	7,200	3,750	\$7740.00
AK17080	22A	22	132	77	9,600	5,000	\$9320.00
AK17081	25A	25	150	87	12,500	7,250	\$12015.00

Chain (C-type)



No.	Size	d (mm)	L (mm)	B (mm)	Ref. working load limit (kg)	List price
AK7353	3	3	30	11	65	\$173.85
AK7354	4	4	34	14.5	120	\$261.15
AK7355	5	5	37	18	180	\$441.15
AK7356	6	6	43	21	270	\$625.35
AK7358	8	8	54	28	480	\$1116.00

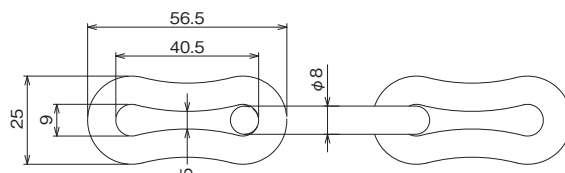
* Material: SUS304

* Made in China

* The price is for 30 m.

* We only sell chains in units of 30 m.

Grip Chain PAT.



AK23100

List price **\$2672.08**

* Material: SUS304

* The price is for 28 m.

* Other lengths are also available.

Please ask us.

* Note: Do not use as a chain for suspending cargo.

Small link gap

The middle of the link gap is narrow, which prevents fingers from getting caught.

8 mm linear dimension

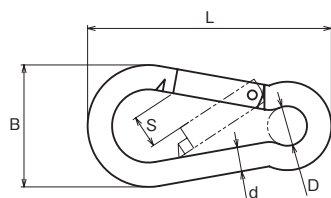
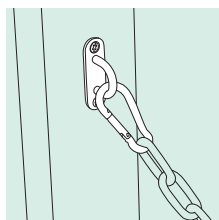
The linear dimension is 8 mm. The maximum load is equivalent to conventional products.

* Compared to our 8C chain

AK Snap Hook (Stainless Steel / Steel)



[Stainless steel]



[Stainless steel]

No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK0999	4	4	40	21	6	7	8	20	\$2.82
AK1000	5	5	50	26	7	7.5	17	50	\$3.26
AK1001	6	6	60	30	9	9	29	70	\$4.04
AK12154	7	7	70	35	9.5	10	45	80	\$5.58
AK1002	8	8	80	40	10	12	65	100	\$6.78
AK12156	9	9	90	45	12	14	90	120	\$8.95
AK1003	10	10	100	50	13	15	127	150	\$9.81
AK1004	11	11	120	59	17	18	190	200	\$15.75
AK1015	12	12	140	65	22	21	260	220	\$21.60

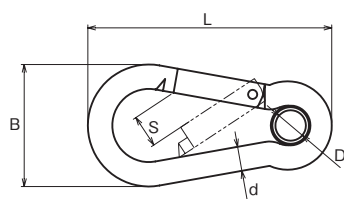
* Material: Main body = SUS316, Spring = SUS304

[Steel]

No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12101	4	4	40	20	5	6	10	20	\$1.35
AK12102	5	5	50	25	6	8	15	40	\$1.53
AK12103	6	6	60	30	7	9	30	50	\$2.05
AK12105	8	8	80	40	10	12	65	70	\$2.88
AK12107	10	10	100	50	14	15	130	90	\$5.25

* Material: S10C, zinc plating

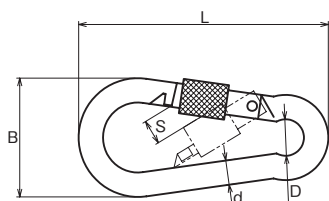
AK Snap Hook with Eyelet



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1005	5	5	50	26	7	7	17	50	\$3.86
AK1006	6	6	60	30	8	7	29	70	\$4.44
AK1007	8	8	80	40	10	10	66	100	\$6.99
AK1008	10	10	100	50	14	13	130	150	\$11.15
AK1018	11	11	120	59	17	17	195	200	\$16.03
AK1019	12	12	140	65	22	20	265	220	\$24.48

* Material: Main body = SUS316, Spring/eyelet = SUS304

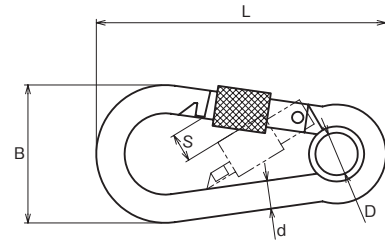
AK Snap Hook with Nut



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1025	8	8	82	39	9	13	72	100	\$12.58
AK1026	10	10	101	50	11	16	140	150	\$17.80
AK1027	11	11	119	60	17.2	16	200	200	\$24.80

* Material: Main body = SUS316, Spring = SUS304

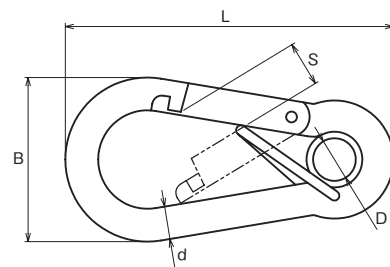
AK Snap Hook with Nut & Eyelet



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1035	8	8	80	39	9	10	75	100	\$13.63
AK1036	10	10	100	49	12	13	145	150	\$19.18
AK1037	11	11	120	60	17.2	13	220	200	\$26.30

* Material: Main body = SUS316, Spring = SUS304

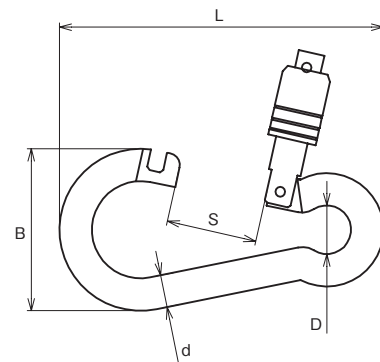
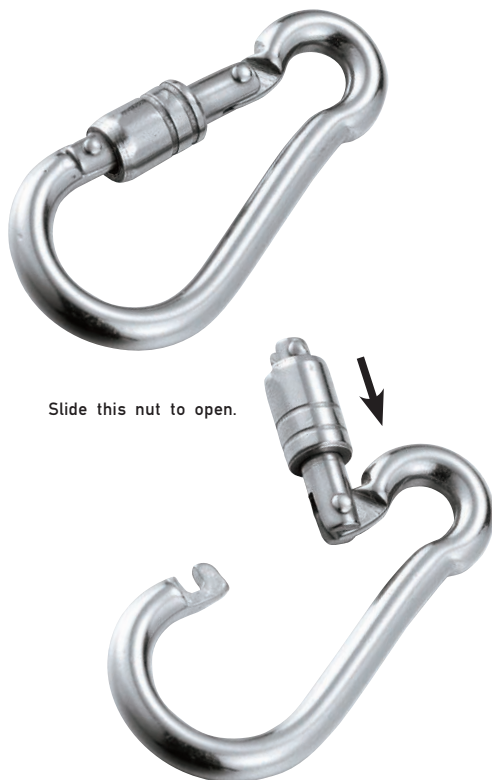
AK Snap Hook with Safety Latch & Eyelet



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1078	10	10	100	49	13.5	13	140	150	\$19.60

* Material: Main body = SUS316, Spring = SUS304

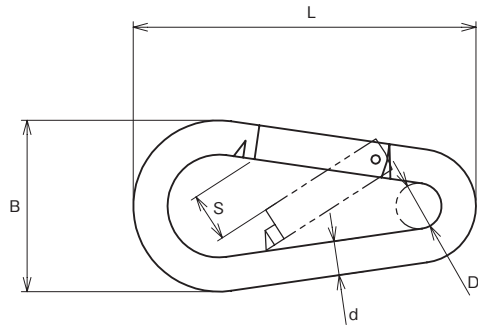
AK Snap Hook, Opening Mouth with Self-Lock Nut



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12401	5	5	54	26.5	13.5	7	20	50	\$4.70
AK12402	6	6	60	30	15.5	8	30	70	\$5.95
AK12403	8	8	80	40	20	12	70	100	\$8.95
AK12404	10	10	100	50	25	15	135	150	\$13.53

* Material: SUS304

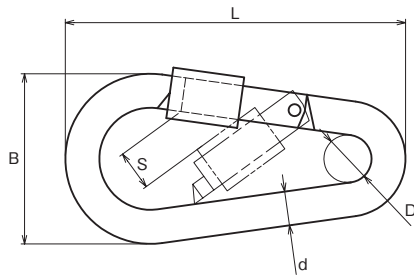
AK Pear Snap Hook



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1081	6	6	60	30	9	8	28	70	\$5.22
AK1082	8	8	80	40	11	11	68	100	\$8.72
AK1083	10	10	100	50	14	14	135	150	\$14.03

* Material: SUS304

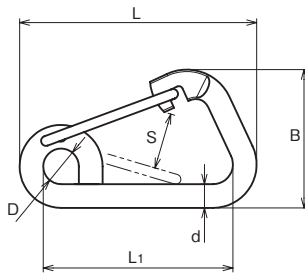
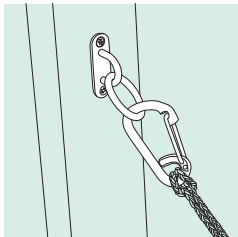
AK Pear Snap Hook with Safety Nut



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1086	6	6	60	30	8	8	30	70	\$7.05
AK1087	8	8	80	40	10	11	70	100	\$10.95
AK1088	10	10	100	50	12	14	140	150	\$17.10

* Material: SUS304

AK Spring Hook with Eye



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1070	6	6	60	48	35	12	9	30	70	\$4.45
AK1071	8	8	80	64	46	18	12	70	150	\$7.15
AK1072	10	10	100	80	56	21	15	135	200	\$11.33
AK1073	12	12	120	96	68	25	18	232	300	\$17.28

* Material: Main body = SUS316, Spring = SUS304

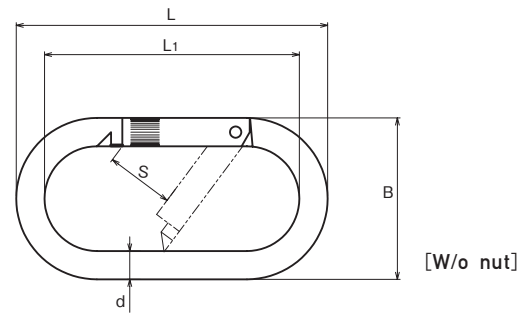
Carabiner (Stainless Steel / Steel)



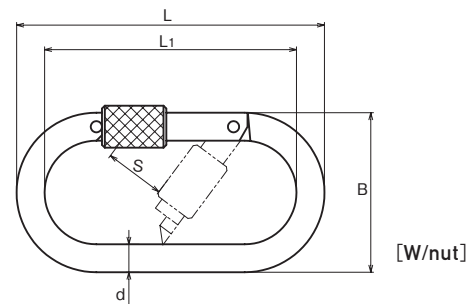
[W/o nut]



[W/nut]



[W/o nut]



[W/nut]

[Stainless steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Type	Unit weight (g)	Working load limit (kg)	List price
AK1260	10	10	114	94	58	25	W/o nut	145	150	\$24.18
AK1261	10	10	114	94	58	22	W/nut	160	180	\$28.40

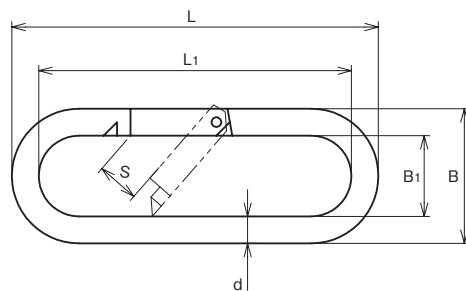
* Material: SUS304

[Steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Type	Unit weight (g)	Working load limit (kg)	List price
AK1270	10	10	110	90	57	22	W/o nut	150	115	\$6.35
AK1271	10	10	110	90	57	21	W/nut	160	130	\$7.60

* Material: Main body = S10C, zinc plating, Spring = SUS304

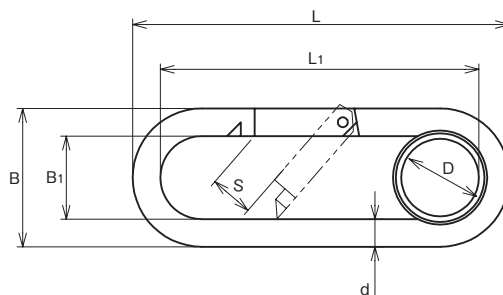
S Carabiner



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1265	5	5	69	59	26	16	9	22	50	\$4.43
AK1266	6	6	79	66	31	19	11	37	70	\$5.46
AK1267	8	8	90	74	37	21	11	75	100	\$8.53
AK1268	10	10	110	90	48	28	13	140	150	\$14.10

* Material: SUS304

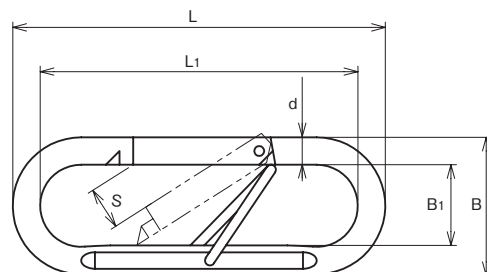
S Carabiner with Eyelet



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1280	5	5	69	58	26	16	9	13	25	50	\$5.08
AK1281	6	6	81	68	31	19	11	16	40	70	\$6.40
AK1282	8	8	90	72	37	21	11	17	76	100	\$9.84
AK1283	10	10	114	93	46	26	12	23	150	150	\$16.75

* Material: SUS304

S Carabiner with Safety Latch



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1285	5	5	68	58	29	18	10	23	60	\$5.05
AK1286	6	6	78	66	32	19	11	38	80	\$6.37
AK1287	8	8	91	75	38	22	12	78	120	\$9.87
AK1288	10	10	110	90	48	27	14	146	150	\$16.69

* Material: SUS304

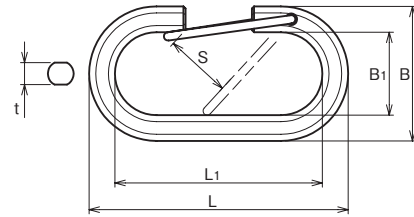
Strong Spring Hook Type A (Stainless Steel / Steel)



[Stainless steel]



[Steel]



[Stainless steel]

No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12052	5	50	40	25	15	12	4.4	15	20	\$3.33
AK12053	6	62	50	32	20	16	5.3	30	25	\$4.35
AK12055	8	72	55	39	22	18	7	60	50	\$6.40

* Material: SUS304

[Steel]

No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12072	5	50	40	25	15	12	4.4	15	15	\$1.93
AK12073	6	62	50	32	20	16	5.3	30	20	\$2.35
AK12075	8	72	55	39	22	18	7	60	40	\$3.30

* Material: SS400, zinc plating

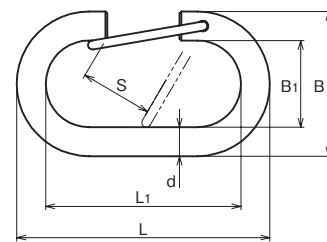
Spring Hook (Stainless Steel / Steel)



[Stainless steel]



[Steel]



[Stainless steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12141	4	4	40	32	17	9	6	8	12	\$1.62
AK12142	5	5	50	40	25	15	10	16	16	\$2.34
AK12143	6	6	62	50	32	20	12	29	20	\$2.94
AK12145	8	8	70	54	37	21	15	55	45	\$4.73
AK12146	10	10	80	60	44	24	18	100	70	\$9.10

* Material: SUS304

[Steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12341	4	4	40	32	17	9	6	8	8	\$1.02
AK12342	5	5	50	40	25	15	10	16	11	\$1.54
AK12343	6	6	62	50	32	20	15	29	13	\$1.84
AK12345	8	8	72	56	36	20	16	55	30	\$2.63
AK12346	10	10	80	60	44	24	18	100	50	\$3.90

* Material: S10C, zinc plating

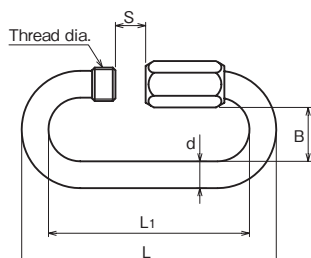
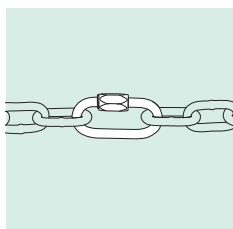
Quick Link (Stainless Steel / Steel)



[Stainless steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK1210	3	3	35	29	7	4	M3.5	6	5	40	\$2.78
AK1200	4	4	44	36	8.4	5	M4.5	7	10	50	\$3.25
AK1201	5	5	53	43	10.3	6	M6	8	20	80	\$3.80
AK1202	6	6	61	49	12.8	7	M7	9	33	110	\$4.60
AK1203	8	8	76	60	14	9	M11	14	76	590	\$9.04
AK1204	9	9	83	65	16.5	11	M12	15	103	610	\$12.65
AK1230	10	10	91	71	17	12	1/2UNF	17	140	880	\$17.00
AK1231	12	12	107	83	20	13	M15	18	225	1,150	\$23.08
AK1233	14	14	122	94	21	16	M17	22	365	1,400	\$42.48
AK1234	16	16	142	110	24	18	M19	26	545	1,650	\$70.18

*Material: SUS304

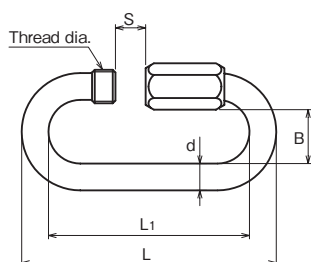


[Steel]

No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK12115	3.5	3.5	36	29	7.5	4	M5	7	10	40	\$0.95
AK12116	4	4	41	33	8	5	M6	8	13	50	\$1.10
AK12117	5	5	49	39	10	6	M7	9	25	70	\$1.58
AK12118	6	6	59	47	10	8	M9	11	38	90	\$1.87
AK12119	7	7	68	54	13	9	M10	13	60	150	\$2.80
AK12120	8	8	75	59	14	10	M11	14	80	200	\$3.40

*Material: S15C, zinc plating

Quick Link Type N

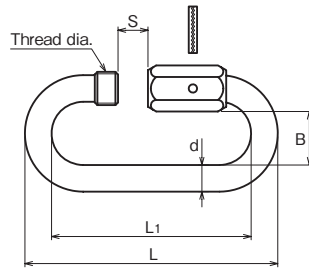


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK12383	3	3	32	26	7	5	M4	7	6	40	\$2.04
AK12384	4	4	42	34	10	5	M6	8	13	60	\$2.30
AK12385	5	5	50	40	11	7	M7	9	21	90	\$2.92
AK12386	6	6	58	46	12	8	M8	10	33	150	\$3.70

*Material: SUS304



Quick Link with Locking Pin

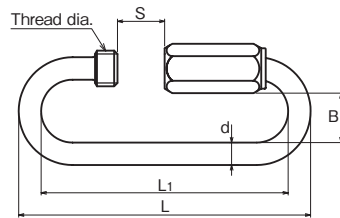


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK12361	4	4	44	36	8.4	5	M4.5	7	10	50	\$5.35
AK12362	5	5	53	43	10.3	6	M6	8	20	80	\$6.00
AK12363	6	6	61	49	12.3	7	M7	9	33	110	\$6.70
AK12365	8	8	75	59	15	9	M11	14	76	590	\$11.14

* Material: SUS304



Quick Link Sliding-Type

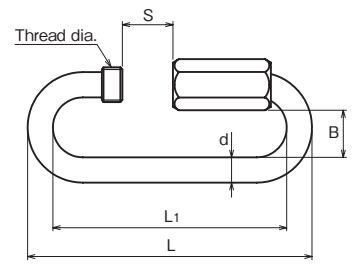


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK1205	10L	10	130	110	22	21	W5/8	19	230	880	\$55.45
AK1206	13L	13	168	142	28	26	W3/4	24	500	1,650	\$83.50
AK1207	16L	16	207	175	35	31	W7/8	29	925	2,150	\$211.88

* Material: SUS316



Quick Link Wide Jaw

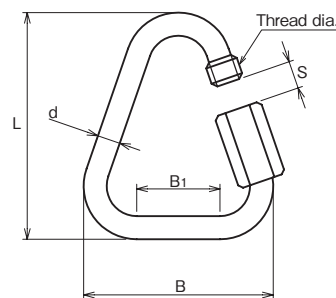


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK1220	5	5	58	48	11	9	M6	8	25	80	\$6.18
AK1221	6	6	72	60	13.5	13	M9	11	45	150	\$7.58
AK1222	8	8	90	74	17	16	M11	14	100	590	\$11.80

* Material: SUS304



Triangle Quick Link



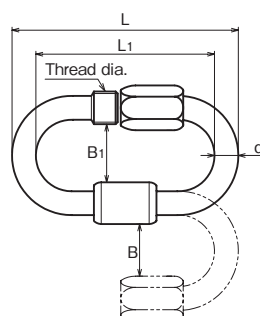
No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	S (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (kg)	List price
AK1225	5	5	50	41	18	6	M7	9	25	80	\$5.68

* Material: SUS304

* Suitable for connecting belts, ropes, and chains.



Turning Link

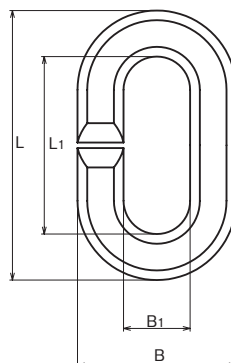


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Thread dia.	Width across flats	Unit weight (g)	Working load limit (t)	List price
AK1272	6	6	57	45	11	13	M9	12	50	0.37	\$18.75
AK1273	8	8	76	60	17	19	M11	13	100	0.62	\$27.50
AK1274	10	10	90	70	20	22	M14	17	200	0.9	\$46.00
AK1275	13	13	119	93	25	28	M18	21	415	1.7	\$72.23
AK1276	16	16	144	112	30	34	M20	24	710	2.2	\$170.65
AK1277	19	19	170	132	36	41	M24	30	1,160	3.1	\$237.40
AK1278	22	22	196	152	41	46	M27	32	1,780	5	\$293.70
AK1279	25	25	225	175	50	55	M33	38	2,670	6.5	\$430.05

* Material: SUS316



Strong C-Link

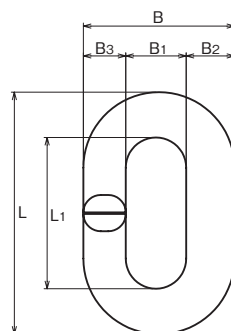
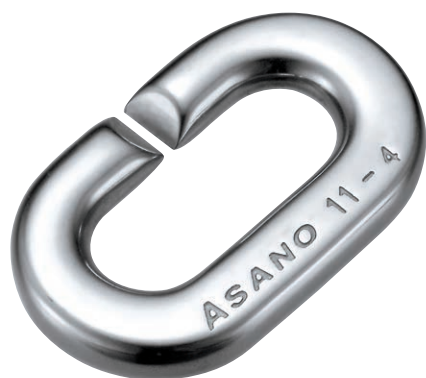


No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4205	13	77	50	49	20	170	200	\$10.65
AK4206	16	97	64	57	24	320	390	\$17.90
AK4207	19	115	76	67	28	540	520	\$26.90
AK4208	22	134	88	79	33	840	690	\$39.20
AK4209	25	152	100	89	37	1,230	880	\$56.75
AK4210	28	168	111	96	41	1,650	1,050	\$82.25

* Material: SUS304

* Also available in combination with swivels. Please ask us.

Heavyduty C-Link

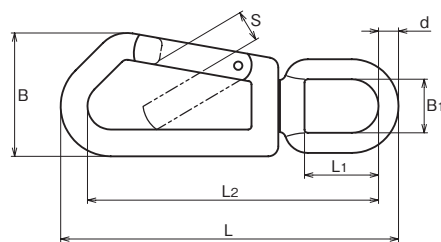


No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3621	6	37	23	22.5	8	8	6.5	22	120	\$3.23
AK3622	8	51	32	31	12	10.5	8.5	40	150	\$6.30
AK3623	9	57	36	35	14	11.5	9.5	60	190	\$7.20
AK3624	11	69	44	42	17	13.5	11.5	110	230	\$10.85
AK3625	13	80	50	50	20	16	14	200	300	\$16.00
AK3626	16	100	64	61	24	20	17	360	520	\$28.40
AK3627	19	120	76	72	28	23.5	20.5	630	620	\$49.45
AK3628	22	138	88	84	33	27.5	23.5	980	860	\$79.70
AK3629	25	157	100	95	37	31.5	26.5	1,390	1,100	\$110.85
AK3630	28	174	111	106	41	35	30	1,940	1,260	\$156.10
AK3631	32	196	125	121	50	38	33	2,760	1,650	\$225.40

* Material: Special stainless steel

* Note: Do not deform or weld the product.

Swivel Snap Hook

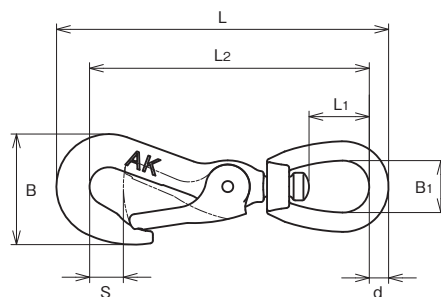


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1150	6	5	100	22	87	37	16	10	85	120	\$21.28
AK1151	8	6	110	22	98	45	16	12	126	140	\$25.89
AK1152	10	8	141	26	122	54	20	15	220	150	\$32.20
AK1153	12	10	172	35	148	66	24	17	388	250	\$51.12
AK1154	14	13	225	45	195	82	30	21	1,000	560	\$114.00

* Material: SCS14 (equivalent to SUS316), Pin/spring = SUS304

* Do not use under conditions of constant rotation.

Tuna Swivel Snap

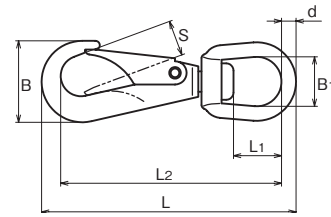
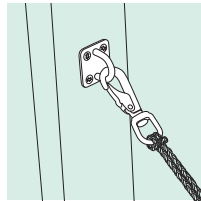


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12450	T0	3.5	60	11	51	20	9	6	17	40	\$5.96
AK12451	T1	4.5	69	11	57	26	12	5	32	60	\$7.78

* Material: Main body = special stainless steel, Swivel = SCS13 (equivalent to SUS304)

* Do not use under conditions of constant rotation.

Snap Hook with Swivel Eye

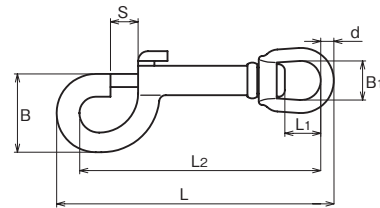
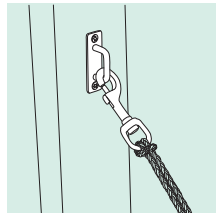


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1040	S0	3	55	9	48	18	12	4	16	30	\$6.74
AK1041	S1	4	69	11	60	23	13	7	18	40	\$7.27
AK1042	S2	5	83	14	74	28	17	9	41	50	\$7.92

* Material: SCS13 (equivalent to SUS304), Pin/spring = SUS304

* Do not use under conditions of constant rotation.

Swivel Bolt Snap Hook

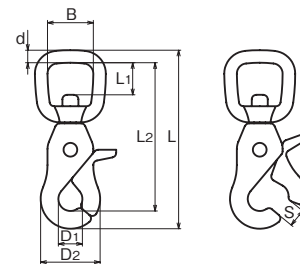


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1045	K0	3	64	10	55	18	11	6.5	22	30	\$8.83
AK1046	K1	4	75	12	68	21	14	7.5	30	50	\$9.25
AK1047	K2	4	85	14	71	24	17	8.5	50	70	\$10.65
AK1048	K3	5	90	18	77	24	21	8.5	55	70	\$11.03

* Material: SCS14 (equivalent to SUS316), Pin/spring = SUS304

* Do not use under conditions of constant rotation.

Trigger Snap Hook with Swivel

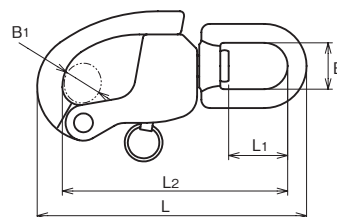


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	S (mm)	D ₁ (mm)	D ₂ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1055	No.1	4	65	11	54	13	11	11	24	45	40	\$9.48
AK1056	No.2	5	67	13	56	17	11	11	24	50	50	\$10.65

* Material: SCS13 (equivalent to SUS304)

* Do not use under conditions of constant rotation.

Snap Shackle with Swivel Eye

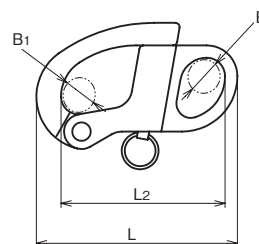


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1160	No.1	69	14	56	12	12	60	150	\$25.80
AK1161	No.2	88	17	73	16	15	130	220	\$29.05
AK1162	No.3	125	29	104	22	21	320	430	\$43.40

* Material: SCS13 (equivalent to SUS304), Pin/spring = SUS304

* Do not use under conditions of constant rotation.

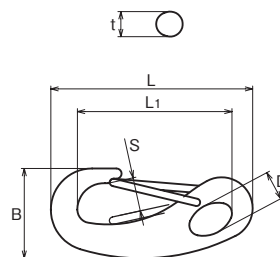
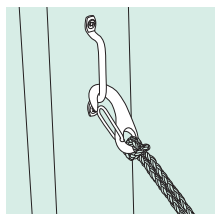
Snap Shackle with Fixed Eye



No.	Size	L (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1165	No.1	55	43	10	12	42	150	\$18.03
AK1166	No.2	71	56	13	15	92	220	\$22.18
AK1167	No.3	100	81	16	21	227	430	\$32.51

* Material: SCS13 (equivalent to SUS304), Pin/spring = SUS304

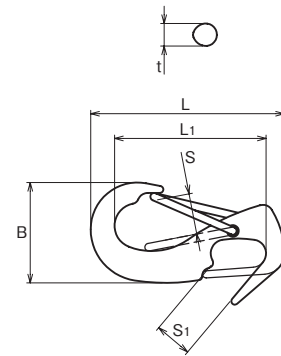
Comma-Shaped Spring Snap with Eye



No.	Size	L (mm)	L ₁ (mm)	B (mm)	S (mm)	t (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1050	M1	50	39	25	10	5.5	6.5	20	40	\$4.50
AK1051	M2	69	53	31	11	8.5	10	50	50	\$6.85
AK1052	M3	97	78	46	18	10	15	145	60	\$12.78

* Material: SCS14 (equivalent to SUS316), Spring = SUS304

Comma-Shaped Spring Snap with Open Eye

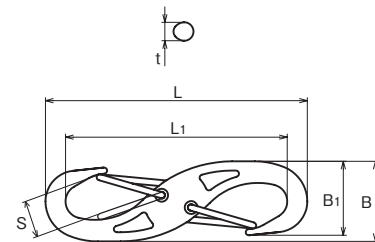


No.	Size	L (mm)	L ₁ (mm)	B (mm)	S (mm)	S ₁ (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1110	No.1	47	37	24	10	7	5.5	20	20	\$4.80
AK1111	No.2	56	43.8	29	12	8	6.5	35	30	\$7.03
AK1112	No.3	66	51	35	15	9	7	50	40	\$9.45
AK1113	No.4	90	72	46	20	11	9	120	60	\$14.90

* Material: SCS14 (equivalent to SUS316), Spring = SUS304



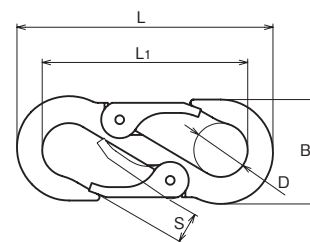
Double Comma-Shaped Spring Snap



No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	S (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1115	MD1	85	72	26	24	12	6	50	25	\$7.75
AK1116	MD2	116	96	34	30	13	9	100	45	\$16.00

* Material: SCS14 (equivalent to SUS316), Spring = SUS304

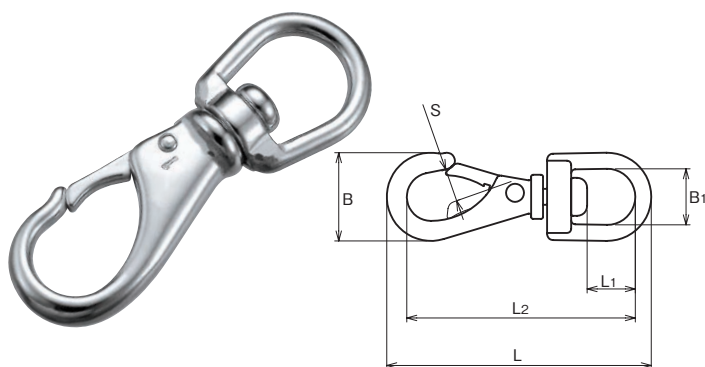
Double Snap Hook



No.	Size	L (mm)	L ₁ (mm)	B (mm)	D (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1030	6	76	61	31	16	10	45	40	\$15.38
AK1031	8	100	81	40	21	14	93	55	\$20.30
AK1032	10	126	103	50	27	18	175	60	\$31.93

* Material: SCS14 (equivalent to SUS316), Pin/spring = SUS304

AK Snap Hook with Swivel Eye

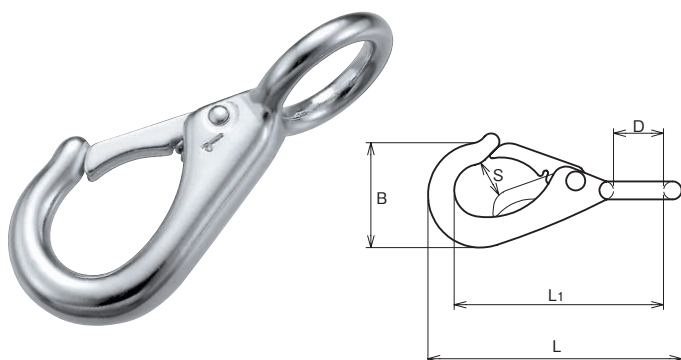


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1009	A0	66	12	57	22	14	7	37	20	\$8.26
AK1010	A1	89	19	78	27	20	9	60	30	\$9.20
AK1011	A2	100	20	87	35	21	11	100	40	\$12.20
AK1012	A3	120	21	104	42	23	12	160	50	\$16.30

* Material: SCS14 (equivalent to SUS316). Spring = SUS304

* Do not use under conditions of constant rotation.

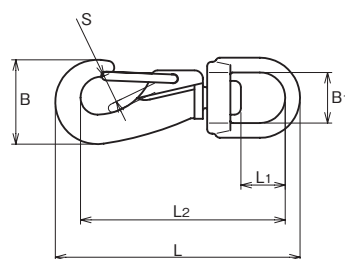
AK Snap Hook with Fixed Eye



No.	Size	L (mm)	L ₁ (mm)	B (mm)	D (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1020	B0	53	44	22	10	7	25	20	\$6.58
AK1021	B1	73	62	30	16	10	50	30	\$7.75
AK1022	B2	81	68	36	18	12	75	40	\$10.83
AK1023	B3	101	84	45	19	16	122	50	\$14.23

* Material: SCS14 (equivalent to SUS316). Spring = SUS304

Spring Hook with Swivel Eye

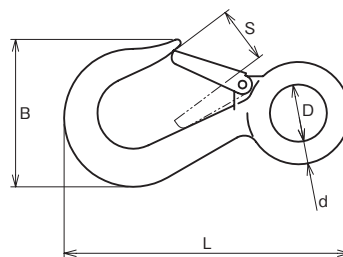


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1090	M0	58	10	49	20	12	7	28	50	\$7.92

* Material: SCS13 (equivalent to SUS304). Spring/pin = SUS304

* Do not use under conditions of constant rotation.

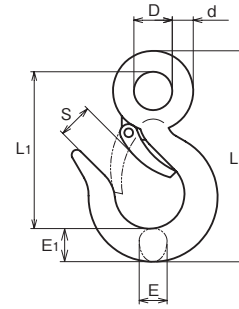
Slip Hook



No.	Size	d (mm)	L (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK1100	x2	7	102	56	16	21	130	95	\$15.95
AK1101	x3	8	120	62	18	29	180	100	\$19.70

* Material: SCS13 (equivalent to SUS304). Spring/pin/latch = SUS304

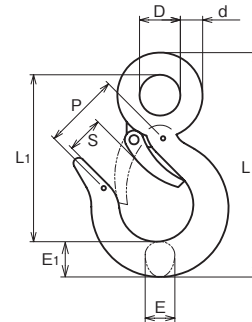
Slip Hook with Fixed Eye, Forged



No.	Size	d (mm)	L (mm)	L ₁ (mm)	S (mm)	D (mm)	E (mm)	E ₁ (mm)	Unit weight (g)	Working load limit (t)	List price
AK4789	0.32t	8	104	77	19	16	15	19	270	0.32	\$32.88
AK4790	0.5t	10	123	91	20	21	18	22	410	0.5	\$45.70
AK4791	1t	12	146	106	23	24	22	28	745	1	\$62.60
AK4792	2t	16	183	133	30	35	25	34	1,200	2	\$156.90
AK4793	3t	19	219	160	35	41	30	40	2,100	3	\$254.00

* Material: SUS304, Pin/spring/latch = SUS304

Slip Hook with Fixed Eye, Forged (Steel)

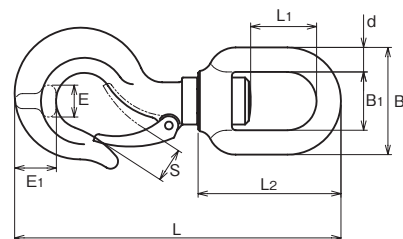


No.	Size	d (mm)	L (mm)	L ₁ (mm)	S (mm)	P (mm)	D (mm)	E (mm)	E ₁ (mm)	Unit weight (g)	Working load limit (t)	List price
AK4795	0.75t	9	109	92	19	40	19	16	19	260	0.75	\$10.90
AK4797	1.5t	12	141	102	24	50	28	20	27	565	1.5	\$20.98
AK4798	2t	15	167	121	29	60	32	23	31	975	2	\$30.13
AK4799	3t	17	200	147	33	60	40	29	37	1,580	3	\$51.10

* Material: S45C

* Note: Stop using immediately if the dimension labeled "P" becomes wider than the value listed in the table above.

Slip Hook with Swivel Eye, Forged

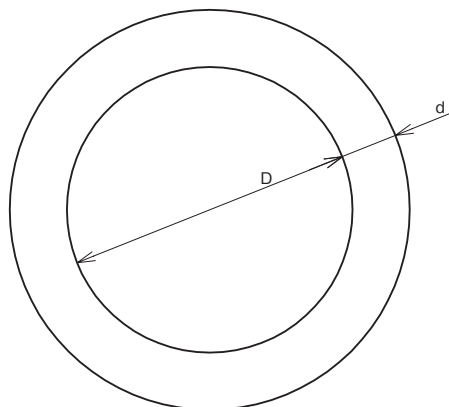


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	E (mm)	E ₁ (mm)	Unit weight (g)	Working load limit (t)	List price
AK4770	0.5t	13	173	35	76	57	31	18	17	22	620	0.5	\$139.30
AK4771	1t	16	223	45	93	70	38	26	21.5	32	1,300	1	\$219.50

* Material: SUS304, Swivel = SCS13 (equivalent to SUS304)

* Do not use under conditions of constant rotation.

Round Ring, Welded

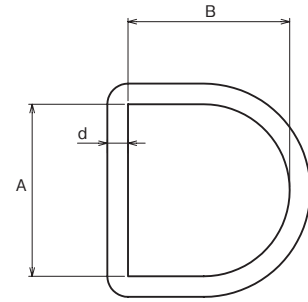


No.	Size	d (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7000	3×20	3	20	4	20	\$0.71
AK7001	3×25	3	25	5	20	\$0.78
AK12500	3×30	3	30	6	15	\$0.84
AK7002	4×22	4	22	8	40	\$0.87
AK7003	4×25	4	25	9	40	\$0.99
AK7004	4×30	4	30	11	40	\$1.07
AK7005	4×35	4	35	12	40	\$1.28
AK12510	4×40	4	40	14	30	\$1.41
AK7006	5×26	5	26	15	60	\$1.53
AK7007	5×30	5	30	17	60	\$1.56
AK7008	5×35	5	35	20	60	\$1.70
AK7084	5×40	5	40	22	60	\$1.83
AK12520	5×45	5	45	25	50	\$2.08
AK12521	5×50	5	50	27	40	\$2.21
AK7009	6×30	6	30	26	80	\$1.89
AK7010	6×35	6	35	29	80	\$2.04
AK7011	6×40	6	40	33	80	\$2.20
AK7020	6×45	6	45	36	80	\$2.34
AK12530	6×50	6	50	40	70	\$2.70
AK12531	6×60	6	60	47	60	\$3.11
AK12532	6×70	6	70	54	50	\$3.41
AK12533	6×80	6	80	61	40	\$3.92
AK7012	7×45	7	45	50	100	\$2.95
AK7013	8×40	8	40	61	120	\$3.62
AK7014	8×45	8	45	66	120	\$3.89
AK7015	8×55	8	55	80	100	\$4.50
AK12540	8×60	8	60	86	100	\$4.99
AK12541	8×70	8	70	99	80	\$5.89
AK7016	9×50	9	50	94	180	\$5.41
AK7017	9×60	9	60	110	150	\$5.85
AK12550	9×70	9	70	126	120	\$7.09
AK12551	9×80	9	80	142	100	\$7.43
AK7060	10×55	10	55	128	200	\$9.82

No.	Size	d (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12555	10×60	10	60	138	200	\$10.47
AK7061	10×65	10	65	148	180	\$11.22
AK7062	10×80	10	80	177	150	\$12.46
AK12560	12×50	12	50	176	400	\$12.84
AK7063	12×55	12	55	190	350	\$13.25
AK7064	12×70	12	70	233	300	\$15.30
AK7065	12×100	12	100	318	250	\$19.87
AK7066	12×125	12	125	389	200	\$27.14
AK12565	13×60	13	60	244	550	\$17.96
AK7067	13×75	13	75	293	500	\$19.10
AK7068	13×100	13	100	377	450	\$22.06
AK7069	13×120	13	120	443	380	\$24.65
AK12570	16×70	16	70	435	800	\$30.53
AK7070	16×85	16	85	510	700	\$31.75
AK7071	16×100	16	100	586	600	\$33.29
AK7072	16×120	16	120	686	450	\$39.69
AK7073	16×150	16	150	838	400	\$48.17
AK7074	19×100	19	100	678	900	\$52.17
AK7075	19×130	19	130	1,060	700	\$68.40
AK7076	19×145	19	145	1,167	600	\$73.01
AK7077	19×160	19	160	1,274	550	\$78.61
AK12580	22×100	22	100	1,166	1,350	\$88.99
AK7078	22×120	22	120	1,355	1,250	\$94.83
AK7079	22×150	22	150	1,641	1,000	\$114.36
AK7080	22×170	22	170	1,832	850	\$119.48
AK12585	25×100	25	100	1,542	1,750	\$136.13
AK7081	25×150	25	150	2,157	1,500	\$157.36
AK7082	25×175	25	175	2,465	1,250	\$167.98
AK7083	25×200	25	200	2,773	1,100	\$175.60
AK12590	28×150	28	150	2,755	1,750	\$213.33
AK12591	28×200	28	200	3,528	1,500	\$242.92
AK12595	32×200	32	200	4,689	2,000	\$394.34
AK12596	32×250	32	250	5,700	1,750	\$430.50

* Material: SUS304

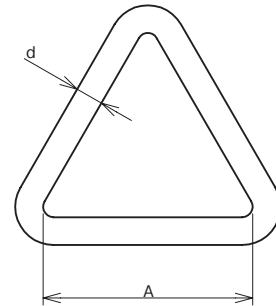
D-Ring, Welded



No.	Size	d (mm)	A (mm)	B (mm)	Unit weight (g)	Working load limit (kg)	List price
AK6800	5×35	5	35	32	19	60	\$2.09
AK6801	5×40	5	40	37	21	60	\$2.22
AK6802	6×45	6	45	42	38	80	\$3.67
AK6803	6×50	6	50	47	43	80	\$4.05

*Material: SUS304

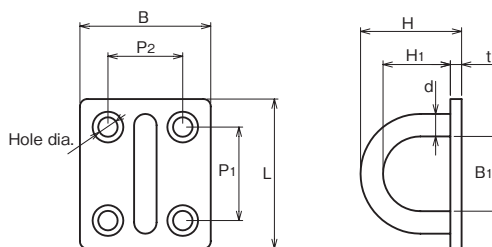
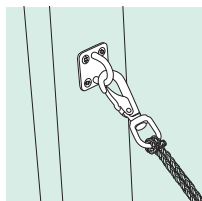
Triangle Ring, Welded



No.	Size	d (mm)	A (mm)	Unit weight (g)	Working load limit (kg)	List price
AK6850	5×35	5	35	19	60	\$2.19
AK6851	5×40	5	40	21	60	\$2.42
AK6852	6×45	6	45	34	80	\$3.71
AK6853	6×50	6	50	38	80	\$4.17

*Material: SUS304

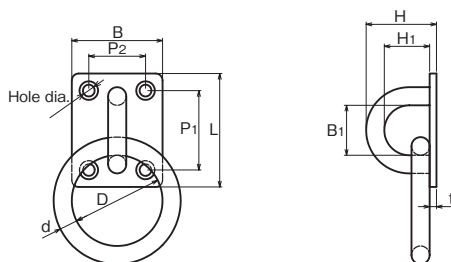
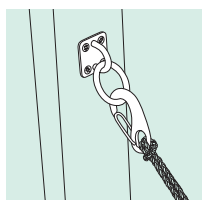
Square Pad Eye



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P ₁ (mm)	P ₂ (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK2999	4	4	28	25	11	18	16	16	10	2	3.3	3.1	10	7	\$2.55
AK3000	5	5	35	30	15	23	18	22	14	3	4.2	3.5	27	20	\$3.81
AK3001	6	6	40	35	20	25	20	27	18	3	5.2	4.1	40	30	\$4.60
AK3002	8	8	50	40	22	35	25	31	20	3	5.2	4.1	70	40	\$6.75
AK3003	9	9	58	42	28	43	27	38	25	4	5.2	4.5	104	60	\$10.56
AK3004	12	12	75	54	36	56	35	50	34	5	5.7	5.1	240	100	\$18.60

* Material: SUS316

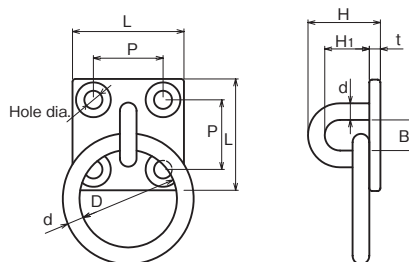
Square Pad Eye with Ring



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P ₁ (mm)	P ₂ (mm)	D (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4037	4	4	28	25	11	18	16	30	16	10	2	3.3	3.1	20	7	\$4.30
AK4038	5	5	35	30	15	23	18	30	22	14	3	4.2	3.5	45	20	\$5.78
AK4039	6	6	40	35	20	25	20	35	27	18	3	5.2	4.1	70	30	\$7.05
AK4040	8	8	50	40	22	35	25	40	31	20	3	5.2	4.1	125	40	\$11.28
AK4041	9	9	58	42	28	43	27	50	38	25	4	5.2	4.5	198	60	\$19.97
AK4042	12	12	75	54	36	56	35	60	50	34	5	5.7	5.1	422	100	\$39.33

* Material: SUS316

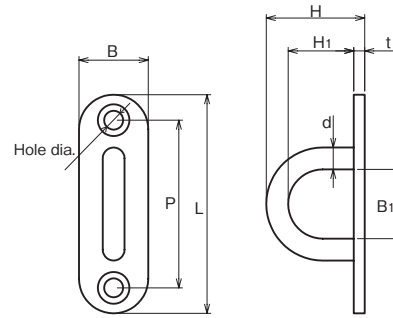
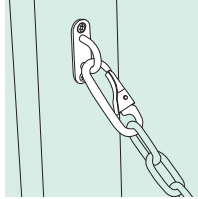
Heavyduty Square Pad Eye with Ring



No.	Size	d (mm)	L (mm)	B (mm)	P (mm)	D (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4029	5	5	35	10	22	30	22	14	3	4.3	3.5	52	30	\$7.28
AK4030	6	6	40	11	25	35	26	16	4	6.5	4.5	80	40	\$8.30
AK4031	8	8	50	18	35	40	32	19	5	7.8	5.1	172	60	\$15.38

* Material: SUS304

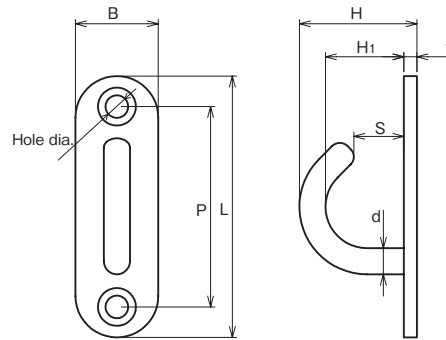
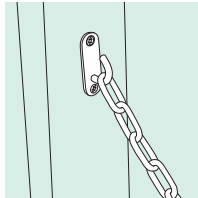
Oblong Pad Eye



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3005	5	5	40	13	11	29.5	19.5	12.5	2	4.2	3.5	11	20	\$2.27
AK3006	6	6	60	19	20	46	27	18	3	5.2	4.1	28	30	\$4.22
AK3007	8	8	80	26	22	54	33	22	3	6.7	4.5	66	40	\$6.59
AK3008	9	9	100	32	28	62	38	25	4	8.2	5.5	123	50	\$10.35

* Material: SUS304

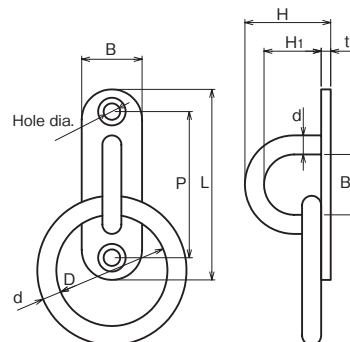
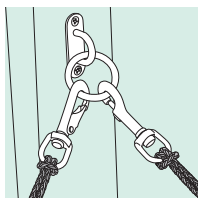
Oblong Pad Hook



No.	Size	d (mm)	L (mm)	B (mm)	P (mm)	S (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3020	5	5	40	13	29.5	10	21	14	2	4.2	3.5	10	20	\$2.25
AK3021	6	6	60	19	46	11.5	27	18	3	5.2	4.1	30	30	\$4.25
AK3022	8	8	80	26	54	17	34.5	23.5	3	6.7	4.5	62	40	\$6.53

* Material: SUS304

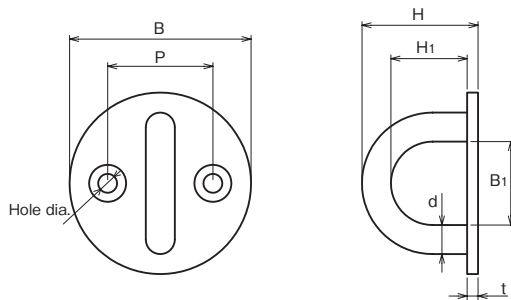
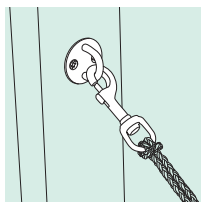
Oblong Pad Eye with Ring



No.	Size	d (mm)	D (mm)	L (mm)	B (mm)	B ₁ (mm)	P (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4055	5	5	30	40	13	11	29.5	19.5	12.5	2	4.2	3.5	30	20	\$4.45
AK4056	6	6	35	60	19	20	46	27	18	3	5.2	4.1	56	30	\$7.04
AK4057	8	8	40	80	26	22	54	33	22	3	6.7	4.5	125	40	\$11.58

* Material: SUS304

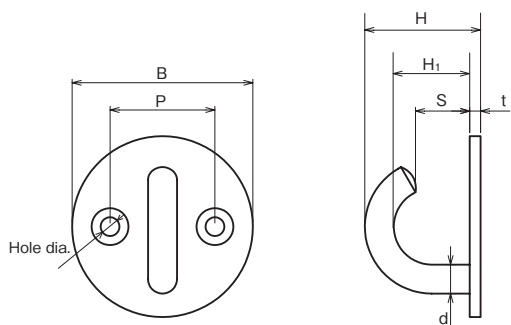
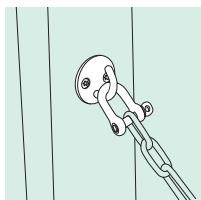
Round Pad Eye



No.	Size	d (mm)	B (mm)	B ₁ (mm)	P (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3215	5	5	33	14	19	20	12.5	2.5	4.2	3.5	20	20	\$3.50
AK3216	6	6	40	19	23	25.5	17	2.5	5.2	4.1	35	30	\$4.33
AK3217	8	8	50	23	29	32	21	3	5.2	4.5	70	40	\$6.75

* Material: SUS304

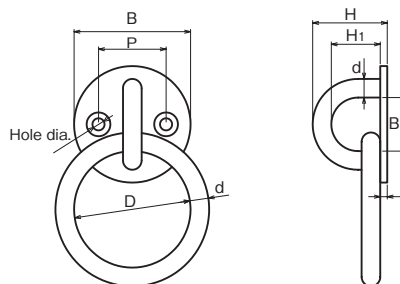
Round Pad Hook



No.	Size	d (mm)	B (mm)	P (mm)	S (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3025	5	5	33	19	8	22	14	2.5	4.2	3.5	20	20	\$3.40
AK3026	6	6	40	23	10	27	18	3	5.2	4.1	35	30	\$4.33
AK3027	8	8	50	29	15	32	21	3	5.2	4.5	70	40	\$7.05

* Material: SUS304

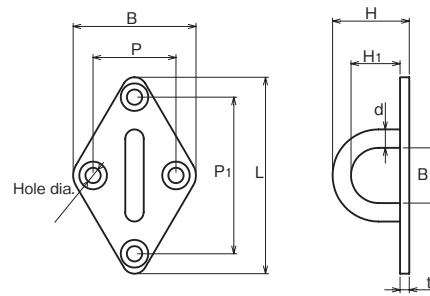
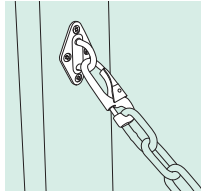
Round Pad Eye with Ring



No.	Size	d (mm)	B (mm)	B ₁ (mm)	P (mm)	D (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4065	5	5	33	14	19	30	20	12.5	2.5	4.2	3.5	38	20	\$5.87
AK4066	6	6	40	19	23	40	25.5	17	2.5	5.2	4.1	67	30	\$7.71
AK4067	8	8	50	23	29	50	32	21	3	5.2	4.5	141	40	\$12.12

* Material: SUS304

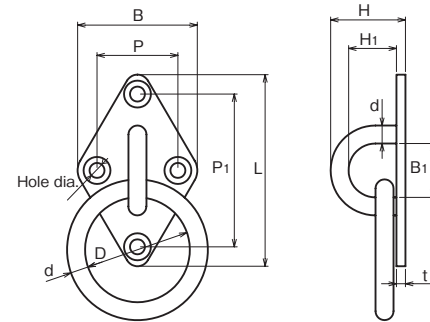
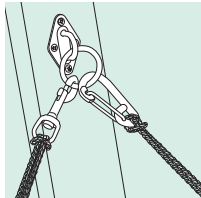
Diamond Pad Eye



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3220	5	5	60	37	15	24	47	23	13.5	2.5	4.2	3.5	32	20	\$5.33
AK3221	6	6	65	40	20	25.5	50.5	29	18	3	5.2	4.1	44	30	\$6.46
AK3222	8	8	80	50	22	31	60.5	33	20	3	5.2	4.1	75	40	\$7.73

*Material: SUS304

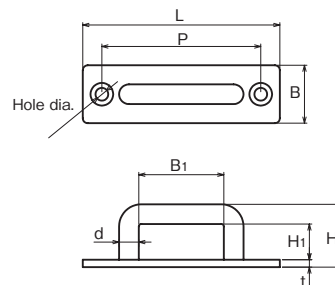
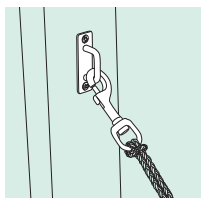
Diamond Pad Eye with Ring



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P (mm)	P ₁ (mm)	D (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4015	5	5	60	37	15	24	46	30	22	12	2.5	4.2	3.5	50	20	\$7.05
AK4016	6	6	65	40	20	25.5	50.5	35	29	18	3	5.2	4.1	72	30	\$9.08
AK4017	8	8	80	50	21	34	65	50	32	21	3	5.2	5.1	142	40	\$15.13

*Material: SUS304

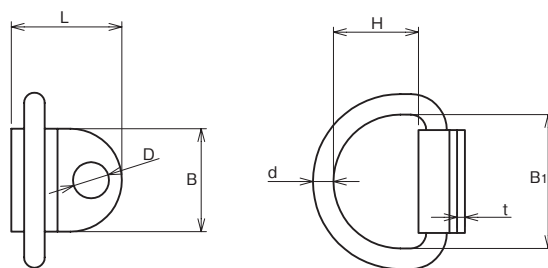
Rectangle Pad Eye



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	P (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3225	5	5	45	15	14	35	20	13	2	3.6	3.1	17	20	\$3.26
AK3226	6	6	60	18	24	48	22.5	14	2.5	4.2	3.5	28	30	\$4.82
AK3227	7	7	70	21	28	56.5	23.5	14	2.5	4.2	4.1	40	35	\$6.30
AK3228	8	8	80	24	34	64.5	25	14	3	5.2	5.1	68	40	\$7.82
AK3229	9	9	100	27	47	82.5	27	15	3	5.2	5.1	100	60	\$11.00

*Material: SUS304

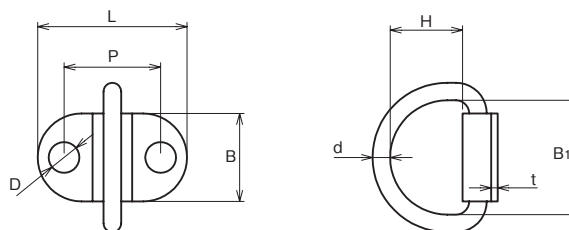
Folding Pad Eye (Two-Piece Holding Body)



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	H (mm)	D (mm)	t (mm)	Unit weight (g)	List price
AK1470	4	4	21	20	26	16	7	1.5	15	\$2.23

* Material: SUS304

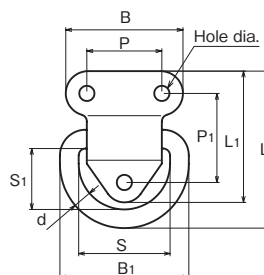
Folding Pad Eye (One-Piece Holding Body)



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	H (mm)	P (mm)	D (mm)	t (mm)	Unit weight (g)	List price
AK1475	4	4	34	20	26	16	22	7	1.5	15	\$2.33

* Material: SUS304

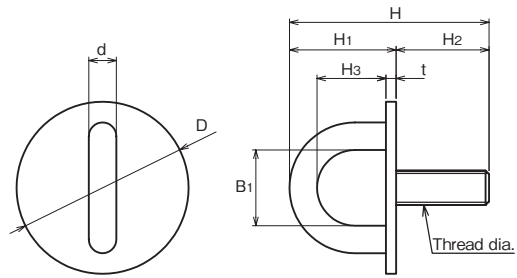
Hinge Pad Eye



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	P (mm)	P ₁ (mm)	S (mm)	S ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK1440	6	6	65	57	51	53	32	38	40	27	6.6	95	\$15.03
AK1441	8	8	68	57	51	56	32	38	40	27	6.6	120	\$17.20

* Material: SUS304

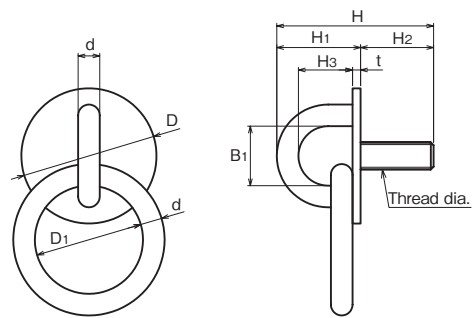
Round Pad Eye Bolt



No.	Size	d (mm)	B ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	H ₃ (mm)	t (mm)	D (mm)	Thread dia.	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3015	5	5	14	40	21.5	19.5	13	2.5	33	M6	11	40	40	20	\$6.60
AK3016	6	6	18	48	28	20	19	3	40	M8	14	45	70	30	\$9.05
AK3017	8	8	22	58	31	27	20	3	50	M10	18	50	125	40	\$13.88

* Material: SUS304, Anchor plug = zinc die-cast

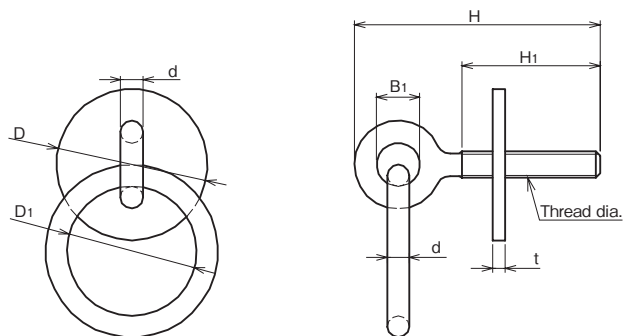
Round Pad Eye Bolt with Ring



No.	Size	d (mm)	B ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	H ₃ (mm)	t (mm)	D (mm)	D ₁ (mm)	Thread dia.	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4060	5	5	14	40	21.5	19.5	13	2.5	33	30	M6	11	40	55	20	\$8.73
AK4061	6	6	18	48	28	20	19	3	40	35	M8	14	45	95	30	\$11.43
AK4062	8	8	22	58	31	27	20	3	50	40	M10	18	50	185	40	\$20.68

* Material: SUS304, Anchor plug = zinc die-cast

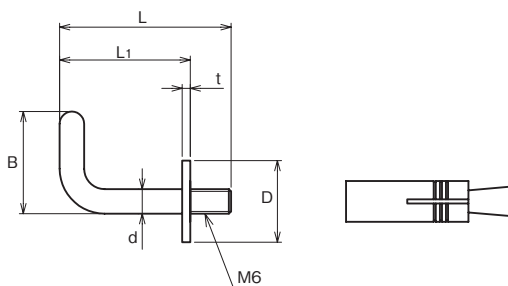
Concrete Anchor with Ring



No.	d (mm)	B ₁ (mm)	H (mm)	H ₁ (mm)	t (mm)	D (mm)	D ₁ (mm)	Thread dia.	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	Working load limit (kg)	List price
AK6040	5	10	57	32	3	35	30	M6	11	40	65	30	\$8.78

* Material: SUS304, Anchor plug = zinc die-cast

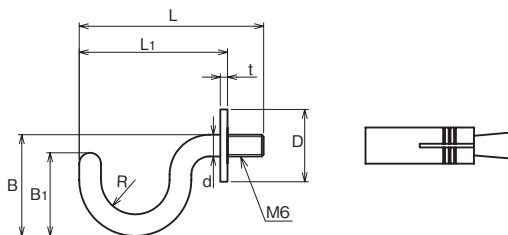
Hook Bolt L-Shape



No.	Size	L (mm)	L ₁ (mm)	B (mm)	d (mm)	D (mm)	t (mm)	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	List price
AK4090	6	42	32	25	6	20	2	11	30	35	\$3.53

* Material: Main body = SUS304, Anchor = plated steel

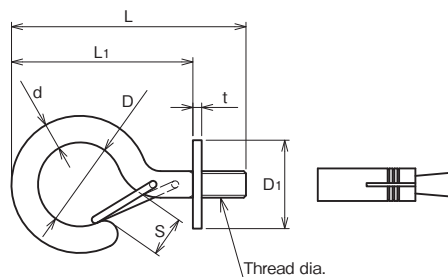
Hook Bolt U-Shape



No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	R (mm)	d (mm)	D (mm)	t (mm)	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	List price
AK4091	6	51	41	28	23	9.5	6	20	2	11	30	40	\$4.10

* Material: Main body = SUS304, Anchor = plated steel

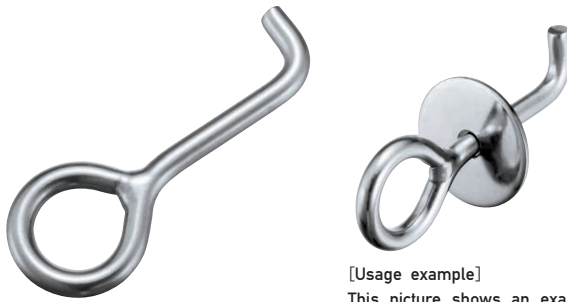
Hook Bolt R-Shape



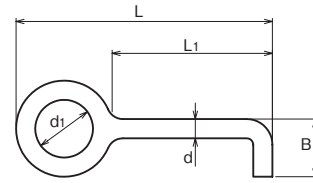
No.	Size	L (mm)	L ₁ (mm)	d (mm)	D (mm)	D ₁ (mm)	S (mm)	t (mm)	Thread dia.	Prep. hole dia. (mm)	Prep. hole depth (mm)	Unit weight (g)	Working load limit (kg)	List price
AK16351	5	45.5	34.5	5.5	15	12	8.5	1.9	M6	11	30	15	18	\$3.83
AK16352	6	53	41	6	19	20	9	2	M6	11	30	25	20	\$4.98

* Material: Main body = SUS304, Anchor = plated steel

Concrete Anchor



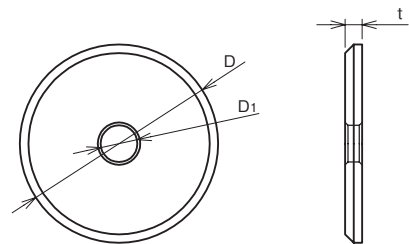
[Usage example]
This picture shows an example of a combination with the Round Plate.



No.	Size	L (mm)	L ₁ (mm)	B (mm)	d (mm)	d ₁ (mm)	Unit weight (g)	List price
AK4085	6	80	50	18	6	18	32	\$3.78
AK4086	9	114	67	27	9	29	105	\$8.28

* Material: SUS304

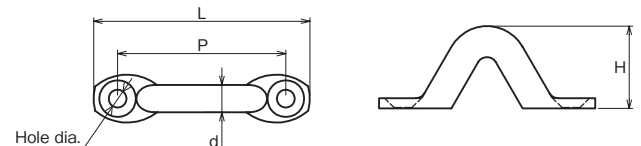
Round Plate, Bright Polished



No.	Size	D (mm)	D ₁ (mm)	t (mm)	Unit weight (g)	List price
AK4080	6	35	6.5	3	20	\$4.50
AK4081	9	50	9.5	4	55	\$8.33

* Material: SUS304

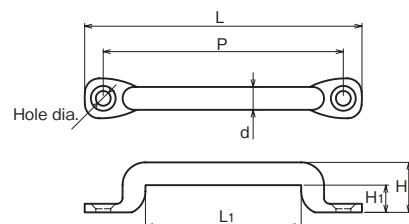
Eye Strap



No.	Size	d (mm)	L (mm)	P (mm)	H (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3009	4	4	41.5	32	16	3	2.1	4	7	\$1.06
AK3010	5	5	53.5	40.5	17.5	4.1	3.1	8	15	\$1.22
AK3011	6	6	59	43.5	22	5.2	3.5	14	20	\$1.61
AK3012	8	8	68	51	23.5	5.2	4.5	26	30	\$2.19

* Material: SUS304

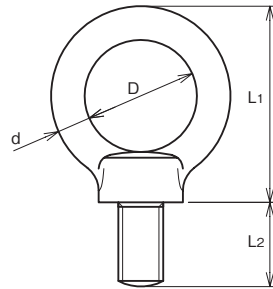
Eye Strap Type L



No.	Size	d (mm)	L (mm)	L ₁ (mm)	H (mm)	H ₁ (mm)	P (mm)	Hole dia. (mm)	Thread dia. (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3115	5	5	73.5	40	15	10	63	4.2	3.5	12	15	\$2.08
AK3116	6	6	90.5	50	18	12	77	5.2	4.1	21	20	\$2.82
AK3117	8	8	97	54	17.5	9.5	84	5.2	4.1	35	30	\$4.53

* Material: SUS304

Eye Bolt, Forged (Metric / Inch Thread)



[Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4560	6	5	27	14	16	M6	18	50	\$3.67
AK4561	8	6	33	15	20	M8	31	80	\$4.27
AK4562	10	8	41.5	18	25	M10	61	150	\$6.02
AK4563	12	10	51	22	30	M12	120	220	\$9.50
AK4564	16	12.5	60	27	35	M16	217	450	\$14.56
AK15970	20	16	71	30	40	M20	390	630	\$25.55

* Material: SUS304

[C-type, Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK17054	10	8	41.5	18	25	M10	65	150	\$5.88

* Material: SUS304

[Inch]

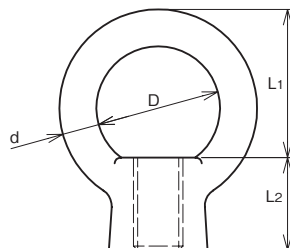
No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4565	1/4	5	29	14	16	W1/4	15	50	\$5.33
AK4566	5/16	6	35	15	20	W5/16	30	80	\$5.75
AK4567	3/8	8	43	18	24.5	W3/8	60	150	\$7.70
AK4568	1/2	10	52.5	22	29.5	W1/2	125	220	\$12.38
AK4569	5/8	13	62	27	34	W5/8	232	450	\$18.48

* Material: SUS304

Eye Nut, Forged (Metric / Inch Thread)



Please ask us about casting articles.



[Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4570	6	5	20	14	16	M6	20	50	\$4.20
AK4571	8	6	25.5	14	20	M8	32	80	\$4.78
AK4572	10	8	32	16.5	24	M10	64	150	\$6.46
AK4573	12	10	39	22	30	M12	129	220	\$10.14
AK4574	16	12.5	45.5	26.5	35	M16	219	450	\$16.49

[C-type, Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK17065	12	10	39	22	30	M12	122	220	\$9.63

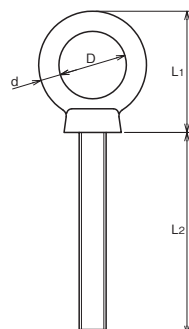
* Material: SUS304

[Inch]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4575	1/4	5.5	22	12	15.5	W1/4	15	50	\$6.03
AK4576	5/16	6.5	24	15	19.5	W5/16	30	80	\$6.45
AK4577	3/8	8	33	17	24.5	W3/8	58	150	\$8.57
AK4578	1/2	10	39	21	29.5	W1/2	114	220	\$14.21
AK4579	5/8	12.5	46	25	34.5	W5/8	235	450	\$20.03

* Material: SUS304

Long Eye Bolt, Forged (Metric / Inch Thread)



[Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4550	6	5	29	50	16	M6	26	50	\$7.19
AK4551	8	6	36	60	20	M8	46	80	\$15.79
AK4552	10	8	44	80	24	M10	98	150	\$20.57
AK4553	12	10	52	100	30	M12	190	220	\$26.35
AK4554	16	12.5	61	150	35	M16	400	450	\$68.00

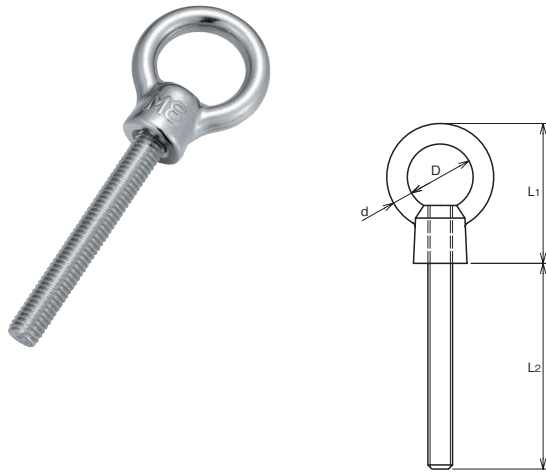
[Inch]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4555	1/4	5	29	50	16	W1/4	26	50	\$7.89
AK4556	5/16	6	36	60	20	W5/16	46	80	\$17.39
AK4557	3/8	8	44	80	24	W3/8	98	150	\$24.17
AK4558	1/2	10	52	100	30	W1/2	190	220	\$35.75

* Material: SUS304

* Sales of this product (inch) will cease when it is no longer in stock.

Long Eye Bolt Type N (Metric / Inch Thread)



[Metric]

No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4585	6	5	34	50	16	M6	30	50	\$7.35
AK4586	8	6	39	60	20	M8	55	80	\$8.93
AK4587	10	8	49	80	25	M10	110	150	\$13.35
AK4588	12	10	61	100	30	M12	210	220	\$22.25
AK4589	16	12.5	72	150	35	M16	440	450	\$35.70

[Inch]

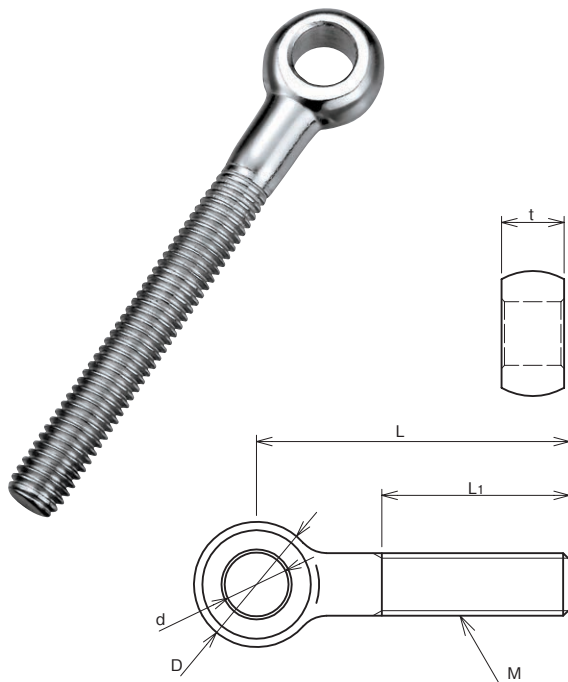
No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK4540	1/4	5	34	50	16	W1/4	30	50	\$7.95
AK4541	5/16	6	39	60	20	W5/16	55	80	\$17.53
AK4542	3/8	8	49	80	25	W3/8	110	150	\$24.35
AK4543	1/2	10	61	100	30	W1/2	210	220	\$36.05
AK4544	5/8	12.5	72	150	35	W5/8	440	450	\$71.60

* Material: SUS304

* This product is made to order.

* Screw length (L₂) is manufactured in accordance with customer requirements.

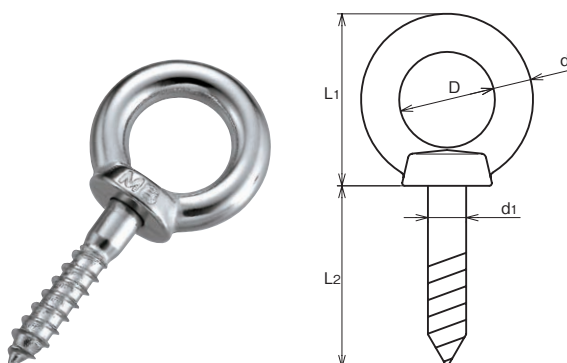
Eye Bolt (Metric Thread)



No.	Size	M (mm)	d (mm)	L (mm)	L ₁ (mm)	D (mm)	t (mm)	Unit weight (g)	List price
AK15060	5×30	M5	5.1	30	25	10	5	6	\$3.19
AK15061	5×40	M5	5.1	40	25	10	5	7	\$3.31
AK15062	5×50	M5	5.1	50	35	10	5	8	\$3.52
AK15070	6×30	M6	6.1	30	24	12	6	9	\$3.64
AK15071	6×40	M6	6.1	40	20	12	6	11	\$3.77
AK15072	6×50	M6	6.1	50	30	12	6	12	\$4.08
AK15075	6×80	M6	6.1	80	60	12	6	18	\$4.57
AK15080	8×30	M8	8.1	30	22	16	8	17	\$4.96
AK15081	8×40	M8	8.1	40	20	16	8	20	\$5.30
AK15082	8×50	M8	8.1	50	30	16	8	23	\$5.55
AK15084	8×70	M8	8.1	70	50	16	8	30	\$6.25
AK15086	8×90	M8	8.1	90	70	16	8	36	\$6.94
AK15090	10×40	M10	10.2	40	30	20	10	34	\$7.11
AK15091	10×50	M10	10.2	50	30	20	10	39	\$7.29
AK15092	10×60	M10	10.2	60	40	20	10	44	\$7.56
AK15093	10×70	M10	10.2	70	50	20	10	49	\$7.94
AK15094	10×80	M10	10.2	80	60	20	10	54	\$8.21
AK15095	10×90	M10	10.2	90	70	20	10	60	\$8.80
AK15096	10×100	M10	10.2	100	80	20	10	65	\$9.18
AK15100	12×50	M12	12.2	50	37	26	12	65	\$12.98
AK15101	12×60	M12	12.2	60	30	26	12	75	\$13.63
AK15102	12×70	M12	12.2	70	40	26	12	80	\$13.90
AK15103	12×80	M12	12.2	80	50	26	12	90	\$14.45
AK15105	12×100	M12	12.2	100	70	26	12	105	\$15.38
AK15110	16×50	M16	16.5	50	30	32	16	125	\$19.48
AK15111	16×60	M16	16.5	60	40	32	16	135	\$21.03
AK15112	16×70	M16	16.5	70	50	32	16	150	\$22.15

* Material: SUS304

Lag Eye Screw

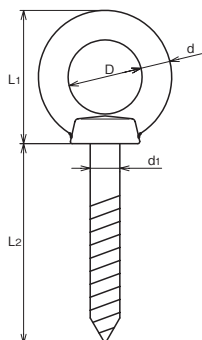


No.	Size	d (mm)	d ₁ (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3230	3	3.5	2.8	17	20	8.5	5	15	\$3.88
AK3231	4	4	4	20	25	10	8	20	\$4.02
AK3232	5	5	5	25	30	13	16	30	\$4.64
AK3233	6	6	6	27	35	15	24	60	\$6.56
AK3234	8	8	8	36	38	20	53	80	\$8.80

* Material: SCS13 (equivalent to SUS304), Screw = SUS304

* Note: The working load indicated is a guideline value. The limit differs according to the materials to which it is attached.

Lag Eye Screw, Long

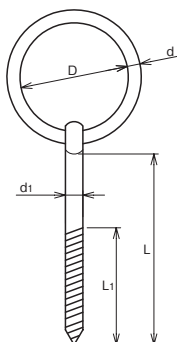


No.	Size	d (mm)	d ₁ (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3240	3	3.5	2.8	17	35	8.5	6	15	\$4.09
AK3241	4	4	4	20	41	10	9	20	\$4.24
AK3242	5	5	5	25	50	13	18	30	\$4.87
AK3243	6	6	6	27	50	15	27	60	\$7.61
AK3244	8	8	8	36	54	20	58	80	\$9.57

* Material: SCS13 (equivalent to SUS304), Screw = SUS304

* Note: The working load indicated is a guideline value. The limit differs according to the materials to which it is attached.

Lag Ring Screw

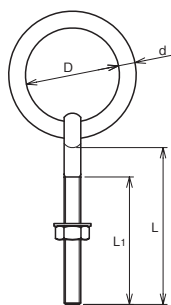


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3210	3	3	4	44	27	25	10	15	\$3.55
AK3211	5	5	6	54	34	30	30	30	\$5.35
AK3212	7	7	8	56	44	50	80	70	\$8.10

* Material: SUS304

* Note: The working load indicated is a guideline value. The limit differs according to the materials to which it is attached.

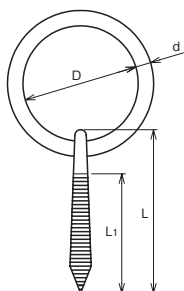
Ring Bolt with Washer & Nut



No.	Size	d (mm)	L (mm)	L ₁ (mm)	D (mm)	Thread dia.	Unit weight (g)	Working load limit (kg)	List price
AK6050	6	6	75	57	40	W1/4	55	60	\$7.63
AK6051	8	8	75	61	45	W5/16	105	100	\$10.58
AK6052	9	9	90	80	50	W3/8	170	150	\$15.55
AK6053	12	12	120	98	55	W1/2	357	200	\$31.86
AK6054	16	16	150	100	85	W5/8	830	500	\$67.45

* Material: SUS304

Ring Nail

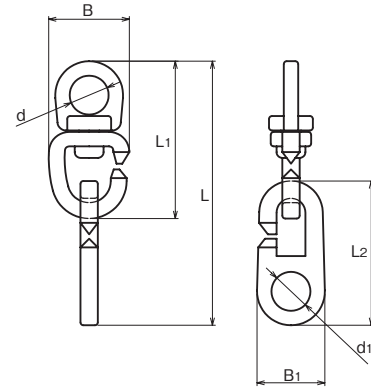


No.	Size	d (mm)	L (mm)	L ₁ (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK3200	3	3	43	31	25	10	10	\$2.25
AK3201	4	4	43	31	30	20	15	\$2.70
AK3202	5	5	50	35	35	30	20	\$3.65
AK3203	6	6	54	35	40	50	25	\$5.35
AK3204	8	8	63	42	45	92	30	\$7.38

* Material: SUS304

* Note: The working load indicated is a guideline value. The limit differs according to the materials to which it is attached.

Flag Swivel Hook

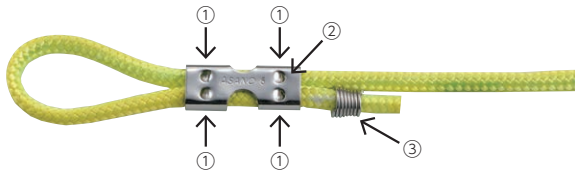
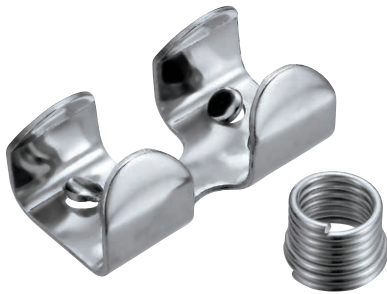


No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK2270	50	7	7	58	37	31	19	18	25	\$4.08
AK2271	90	13	13	94	56	50	29	24	73	\$8.60

* Material: Brass

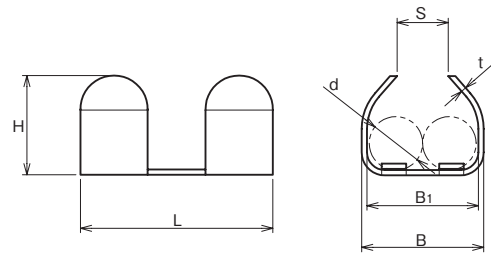
* The swivel section of this product is used to untwist rope. Do not use in parts subject to constant rotation.

Rope Clamp



[Usage example]

- ① Pass a rope through the clamp and tap strongly with a hammer.
- ② Tap with a sharp object like a nail.
- ③ Pass the rope through the spring and tap strongly with a hammer.

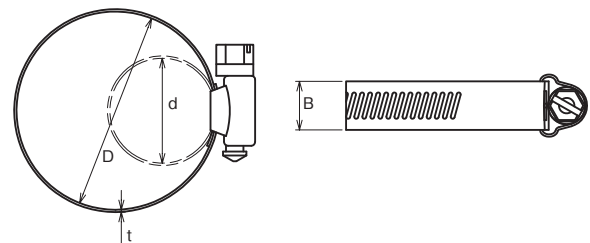


No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	H (mm)	S (mm)	t (mm)	Unit weight (g)	List price
AK1310	6	6	38	15	13	12	7	1.2	10	\$1.65
AK1311	9	9	40	21	19	16	10	1.2	12	\$1.98
AK1312	12	12	43	28	25	22	13	1.2	20	\$2.60

* Material: SUS304



Hose Clamp

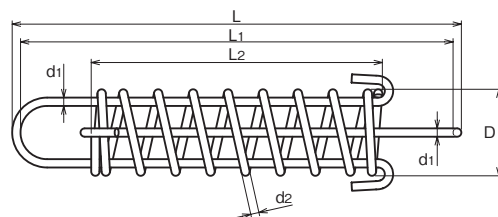
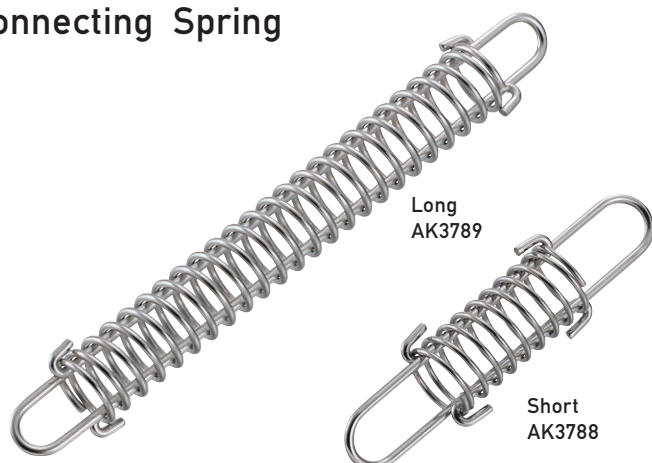


No.	Size	d (mm)	D (mm)	B (mm)	t (mm)	Unit weight (g)	List price
AK1478	13~23	13	23	8	0.5	7	\$1.61
AK1479	15~27	15	27	12.7	0.5	16	\$1.84
AK1480	16~32	16	32	12.7	0.5	18	\$1.97
AK1481	19~44	19	44	12.7	0.5	20	\$2.10
AK1482	32~51	32	51	12.7	0.5	23	\$2.25
AK1483	38~57	38	57	12.7	0.5	25	\$2.38
AK1484	40~64	40	64	12.7	0.5	27	\$2.51

* Material: SUS304

No.	Size	d (mm)	D (mm)	B (mm)	t (mm)	Unit weight (g)	List price
AK1485	57~76	57	76	12.7	0.5	28	\$2.72
AK1486	65~89	65	89	12.7	0.5	30	\$2.95
AK1487	78~101	78	101	12.7	0.5	33	\$3.10
AK1488	91~114	91	114	12.7	0.5	36	\$3.34
AK1489	105~127	105	127	12.7	0.5	38	\$3.67
AK1490	130~152	130	152	12.7	0.5	43	\$4.15
AK1491	146~178	146	178	12.7	0.5	54	\$4.81

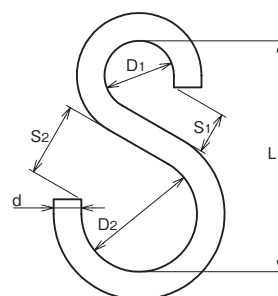
Connecting Spring



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	d ₁ (mm)	d ₂ (mm)	List price
AK3788	2	120	114	56	25	3	2	\$7.22
AK3789	3	275	267	200	30	4	3	\$30.10

* Material: SUS304

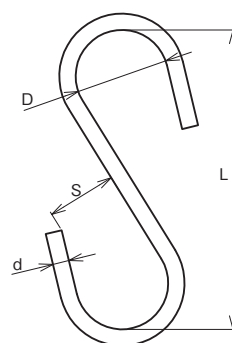
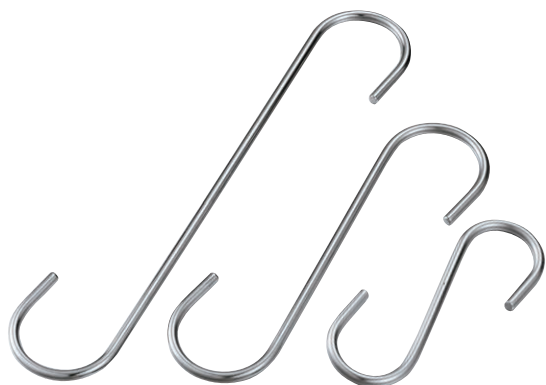
S Hook



No.	Size	d (mm)	L (mm)	D ₁ (mm)	D ₂ (mm)	S ₁ (mm)	S ₂ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK6951	2	2	19	7	7	2	4	1	3	\$0.42
AK6952	3	3	30	9	16	4	10	4	7	\$0.66
AK6953	4	4	38	12	19	6	11	9	15	\$1.14
AK6954	5	5	42	14	21	9	11	18	20	\$1.67
AK6955	6	6	50	15	25	9	16	29	30	\$2.34

* Material: SUS304

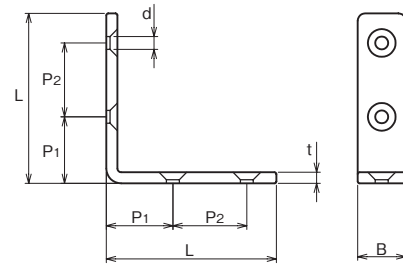
Long S Hook



No.	Size	d (mm)	L (mm)	D (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK6960	6×80	6	80	25	21	43	20	\$3.95
AK6961	6×120		120	34	28	60	15	\$5.00
AK6962	6×160		160	45	35	70	15	\$5.95
AK6963	6×200		200	47	43	75	15	\$6.43
AK6964	6×240		240			95	10	\$7.43
AK6965	6×300		300			105	10	\$11.88
AK6966	6×400		400			130	10	\$13.35
AK6967	6×500		500			150	10	\$15.75

* Material: SUS304

Angle Type U

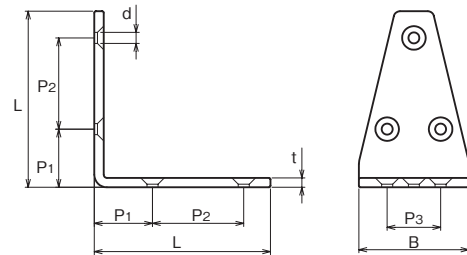
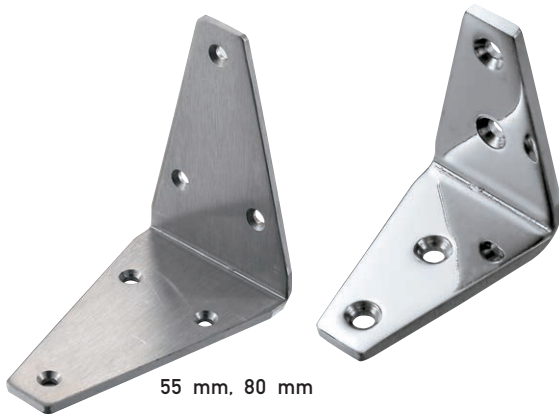


Bright polished	Satin	Size	L (mm)	B (mm)	P ₁ (mm)	P ₂ (mm)	d (mm)	t (mm)	Thread dia. (mm)	Unit weight (g)	List price
AK16020	AK16025	30	31	12	12	13	3.5	3	3.1	15	\$3.13
AK16021	AK16026	45	46	13	18	20	3.5	3	3.1	25	\$4.08
AK16022	AK16027	60	61	15	21	30	4.2	3	3.5	40	\$5.60

* Material: SUS304

* Bright polished surfaces are close to a #400 finish.

Angle Type V



40 mm

Bright polished	Satin	Size	L (mm)	B (mm)	P ₁ (mm)	P ₂ (mm)	P ₃ (mm)	d (mm)	t (mm)	Thread dia. (mm)	Unit weight (g)	List price
AK16030	AK16035	40	41	25	18	17	—	3.5	3	3.1	30	\$5.45
AK16031	AK16036	55	56	35	18.5	29	17	3.5	3	3.1	60	\$7.80
AK16032	AK16037	80	80	50	24	47	27	4.2	3	3.5	120	\$15.20

* Material: SUS304

* The number of holes in the size 40 unit differs from that of the other units.

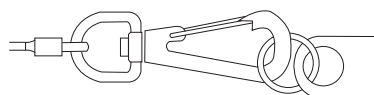
* Bright polished surfaces are close to a #400 finish.

AST Code



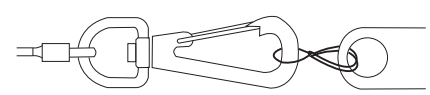
[How to use]

* For double ring



Attach the included double ring to a tool hole and hook the double ring.

* For loop wire



Attach the included loop wire to a tool hole and hook the wire. You can also connect the hook directly to the tool hole.

No.	Full length (mm)	Max extend. (mm)	Working load limit	List price
AK1130	460	1,300	Up to 500 g when using the double ring. Up to 1 kg when not using the double ring.	\$14.99

* Refrain from using the hook, key ring, and loop wire if they are deformed.

* Note: Do not overload with tools and other objects that exceed the working load limit.

Included items: Double ring, loop wire

Ship Equipment

Higher strength and refined form, enabled by our original casting techniques.

Ship equipment is an important part of on-board operations. The work environment on the sea is very severe, and work efficiency depends on the ship equipment. Stainless steel, which is excellent in durability and weather resistance, is essential in this environment. Our products offer functions beyond common expectations. They can respond to the rigorous demands of sea-going professionals. The beauty of finished quality with full functionality testifies to the technological expertise of ASANO, having worked with stainless steel for decades.



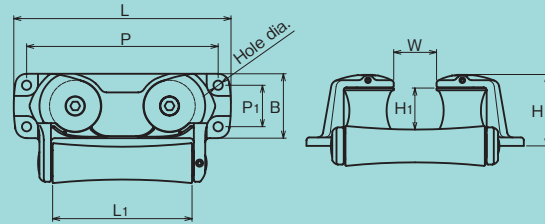
3-Way Roller



Product features

The body is an integrated type with curved lines.

This prevents ropes from being caught.



No.	Size	L (mm)	L ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	W (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	List price
AK19001	150	152	97	45	134	29	30	50	29	6.5	2/2.5/6	1.1	\$416.50
AK19002	200	204	132	60	182	42	46	66	40	9	2.5/3/8	2.5	\$517.50
AK19003	250	255	177	75	229	54	60	74	42	11	2.5/3/14	4.36	\$715.40
AK19004	300	306	206	90	272	62	72	94	52	11	3/3/17	6.7	\$1010.50

* Material: Main body/roller = special stainless steel, Shaft = SUS304, Bush = nylon



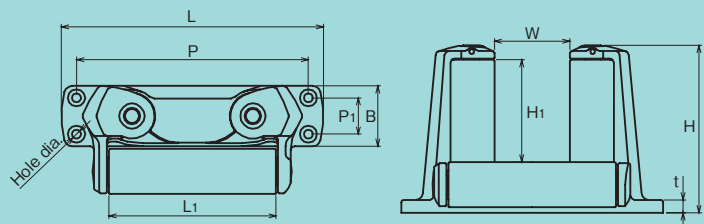
Deck End Roller



Product features

The body is an integrated type with curved lines.

This prevents ropes from being caught.

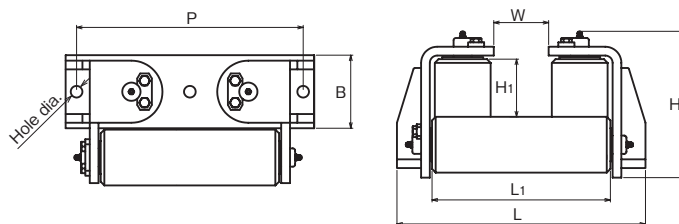
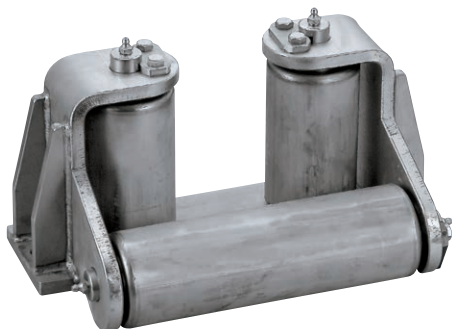


No.	Size	L (mm)	L ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	W (mm)	H (mm)	H ₁ (mm)	t (mm)	Hole dia. (mm)	Hex. wrench dia. (mm)	Roller dia. (mm)	Unit weight (kg)	List price
AK19010	260	260	166	60	230	36	75	166	101.5	13	9	2.5/3/14	45	7.3	\$1054.50
AK19011	320	320	208	75	280	45	90	199	122	15	11	3/3/17	55	13.6	\$1484.00

* Material: Main body/roller = special stainless steel, Roller/shaft = SUS304, Bush = nylon



Deck End Roller JIS Type



No.	Size	L (mm)	L ₁ (mm)	B (mm)	P (mm)	W (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Roller dia. (mm)	Unit weight (kg)	Remark	List price
AK3312	340	340	234	100	310	83.7	187	74	16	76.3	20	JISF2020A	\$2180.00
AK3313	450	450	300	125	400	122.9	218	100	16	89.1	33	JISF2004A	\$3495.00

* Material: SUS304, Bush = HBsB



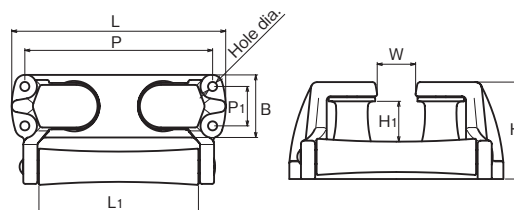
3-Way Roller (Aluminum)



size 100



size 150 ~ 200



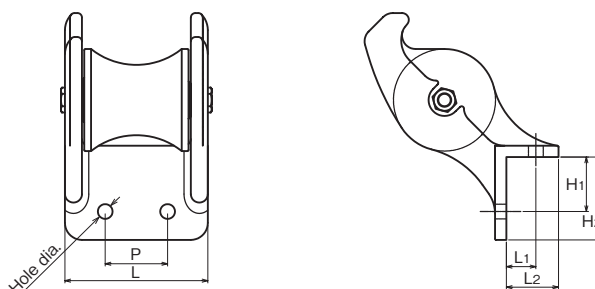
No.	Size	L (mm)	L ₁ (mm)	B (mm)	P (mm)	P ₁ (mm)	W (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Unit weight (kg)	List price
AK3950	100	143	88	44	126	-	18	73.5	27	9	0.6	\$101.00
AK3951	150	158	110	50	138	28	22	96	42	9	0.92	\$133.80
AK3952	200	212	157	62	186	39	38	96	40	9	1.43	\$170.45

* Material: Main body = AC7A, Roller = nylon, Shaft/pin = SUS304

* Surface treatment / anodized aluminum

* For size 100, one screw hole is provided in each side.

Anchor Roller (Aluminum)



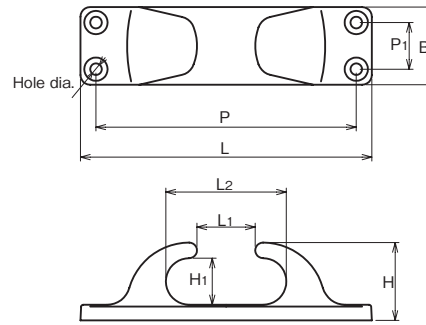
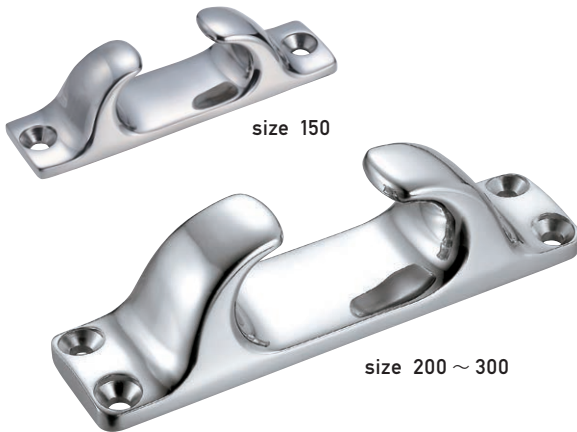
No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	P (mm)	H ₁ (mm)	H ₂ (mm)	Hole dia. (mm)	Roller dia. (mm)	Unit weight (g)	List price
AK3090	50	81	17	35	34	35	55	10	60	600	\$65.00
AK3091	70	103	16	36	44.5	35	60	10	70	1,000	\$90.00
AK3092	90	126	26	46	55	48	73	13	90	1,700	\$143.50

* Material: Main body = AC7A, Roller = nylon, Shaft/pin = SUS304

* Surface treatment / anodized aluminum



Fairleader

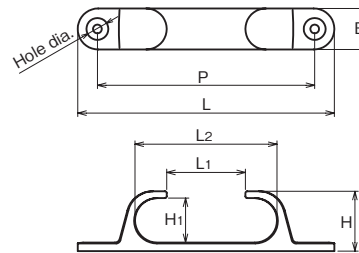


No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK5700	150	150	31	62	40	130	—	40	24	8.5	380	\$63.70
AK5701	200	200	40	84	50	180	30	54	33	8.5	960	\$120.40
AK5702	250	250	50	102	60	220	34	65	39	11	1,600	\$211.00
AK5703	300	300	62	124	65	270	35	80	48	13	2,830	\$279.45

* Material: SCS14 (equivalent to SUS316)

* For size 150, one screw hole is provided in each side.

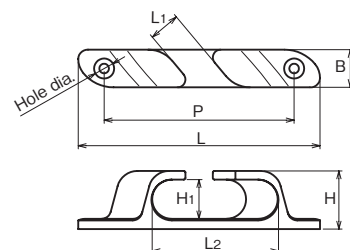
Straight Chock



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK5730	5"	130	33	60	24	105.7	27	16	5	198	\$33.47
AK5731	6"	150	47	83	24	127	35	27	6.4	205	\$39.08

* Material: SCS14 (equivalent to SUS316)

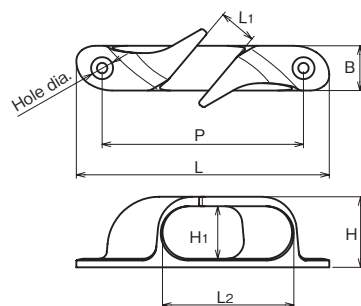
Bow Chock



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Remark	List price
AK5710	4 1/2"	120	13	42	20	84.5	25	12.5	5.1	256	1 L&R set	\$64.84
AK5711	6"	154	25	78	25	120.8	37	19	6.1	582	1 L&R set	\$102.73

* Material: SCS14 (equivalent to SUS316)

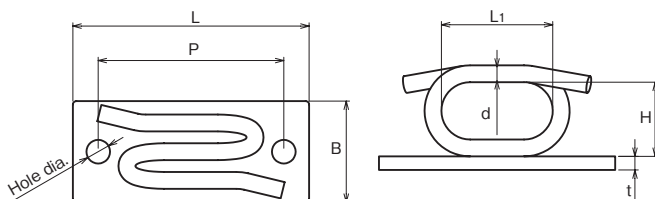
Skene Bow Chock



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	H (mm)	H ₁ (mm)	Hole dia. (mm)	Unit weight (g)	Remark	List price
AK5720	4 1/2"	113	17	54	19	83.5	33	23	5.1	302	1 L&R set	\$71.53
AK5721	6"	147	24	77	26	117.2	41	30	6.1	536	1 L&R set	\$90.04

* Material: SCS14 (equivalent to SUS316)

Rope Hanger

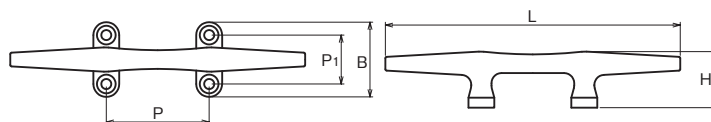


No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	P (mm)	H (mm)	t (mm)	Hole dia. (mm)	Unit weight (g)	Max. rope dia. (mm)	List price
AK3720	5	5	71	33	30	55	22	4	7	90	9	\$17.35
AK3721	7	7	96	38	40	77	30	5	8.5	205	14	\$23.48
AK3722	9	9	122	56	51	102	42	6	10.5	410	22	\$36.65

* Material: SUS316

* Rope diameter is the maximum operable diameter.

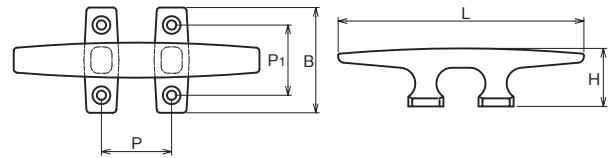
Hollow Base Cleat



No.	Size	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3710	6"	162	44	56	27.5	32	7	214	\$29.81
AK3711	8"	205	52	70.7	34	40	7	367	\$47.81
AK3712	10"	253	71	94.5	47.2	53	7.8	639	\$86.59
AK3713	12"	308	71	94.5	47.2	54	7.8	889	\$94.84

* Material: SCS14 (equivalent to SUS316)

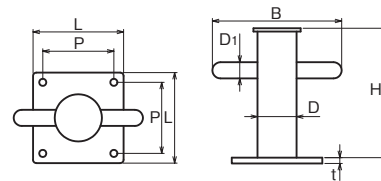
Cleat



No.	Size	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3700	100	100	16	30	—	24	5	120	\$23.60
AK3701	140	140	60	40	40	33	5	310	\$47.15
AK3702	180	180	70	50	50	40	6	540	\$65.10
AK3703	220	220	85	60	60	48	6	930	\$95.95
AK3704	260	260	100	70	70	55	8	1,250	\$147.75

* Material: SCS14 (equivalent to SUS316)

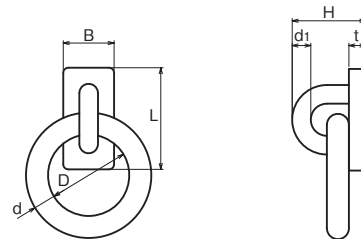
Crossbit



No.	Size	L (mm)	B (mm)	P (mm)	H (mm)	t (mm)	D (mm)	D ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3769	125	80	125	55	125	6	42.7	16	10	820	\$106.80
AK3770	150	100	150	70	150	6	48.6	19	11	1,300	\$150.50
AK3771	200	140	200	110	200	9	60.5	25	11	3,300	\$251.50
AK3772	250	190	250	150	250	10	76.3	28	13	5,800	\$468.00
AK3773	300	200	300	160	300	12	89.1	32	13	8,500	\$682.50

* Material: SUS304

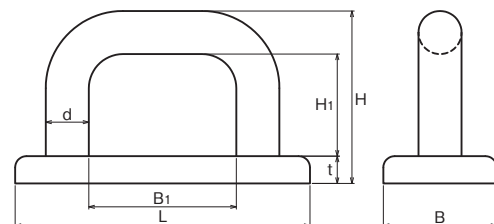
Ring Plate Type B



No.	Size	d (mm)	d ₁ (mm)	D (mm)	L (mm)	B (mm)	H (mm)	t (mm)	Unit weight (g)	Working load limit (t)	List price
AK19100	0.5t	13	11	48	60	30	44	10	400	0.5	\$42.80
AK19101	1t	19	16	70	80	40	61	12	1,110	1.0	\$112.65
AK19102	1.5t	22	19	80	100	50	71	14	1,780	1.5	\$159.70

* Material: SUS304

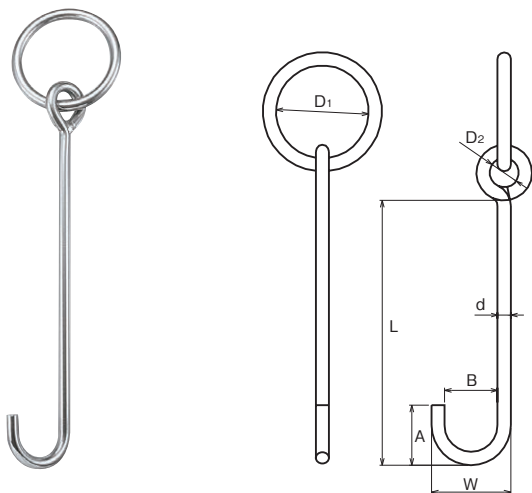
Eye Plate Type D



No.	Size	d (mm)	L (mm)	B (mm)	B ₁ (mm)	H (mm)	H ₁ (mm)	t (mm)	Unit weight (g)	Working load limit (t)	List price
AK19110	19	19	130	50	65	76	45	12	154	0.5	\$78.31
AK19111	22	22	150	62	75	86	50	14	250	1.0	\$155.75
AK19112	28	28	200	80	100	104	60	16	496	2.0	\$216.44

* Material: SUS304

Mooring Ring Type JS

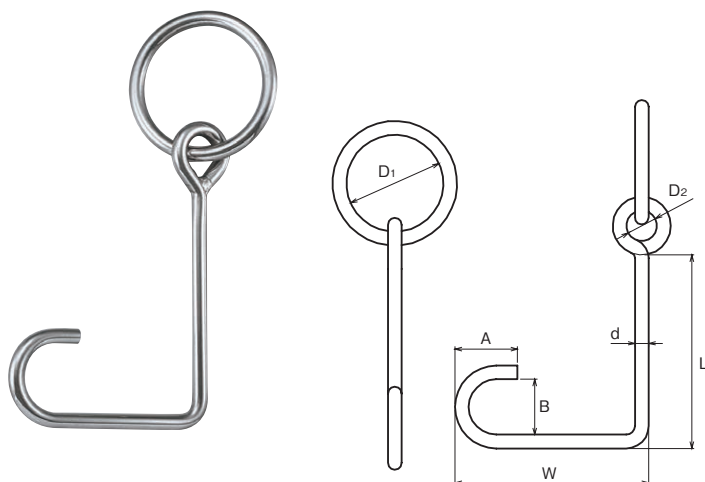


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	A (mm)	B (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3810	16	120	36	450	96	72	64	0.45	1.8	\$121.00
AK3811	19	130	42	500	114	86	76	0.7	3.0	\$189.00
AK3812	22	150	50	600	132	99	88	1.0	4.5	\$252.50
AK3813	25	175	55	700	150	113	100	1.25	6.7	\$391.50
AK19204	25	200	55	700	150	113	100	1.1	7.0	\$399.00
AK3870	28	200	100	700	156	150	100	1.5	9.7	\$517.50
AK3871	32	200	100	700	164	150	100	2.0	12.8	\$720.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JL

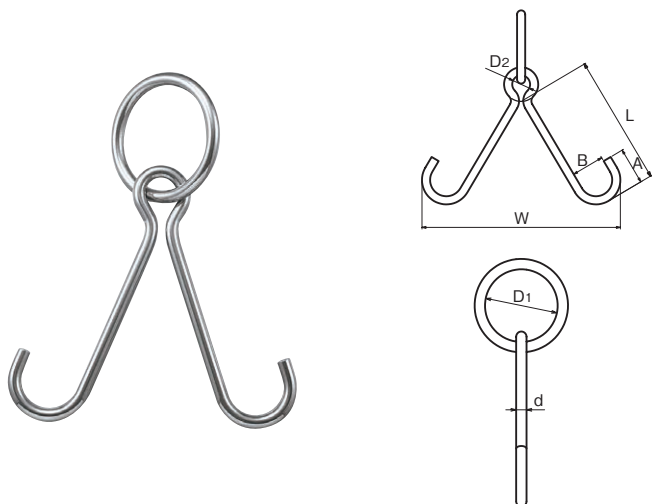


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	A (mm)	B (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3814	16	120	36	225	225	72	64	0.45	1.8	\$121.00
AK3815	19	130	42	250	250	86	76	0.7	3.0	\$188.00
AK3816	22	150	50	300	300	99	88	1.0	4.5	\$256.50
AK3817	25	175	55	350	350	113	100	1.25	6.7	\$395.50
AK19214	25	200	55	350	350	113	100	1.1	7.0	\$403.00
AK3872	28	200	100	380	380	150	100	1.5	10.0	\$531.00
AK3873	32	200	100	380	380	150	100	2.0	13.2	\$759.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JV

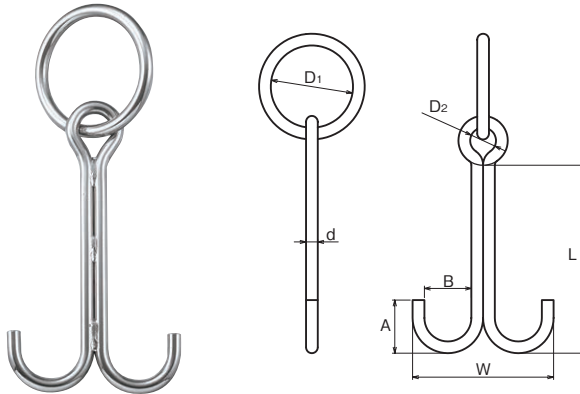


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	A (mm)	B (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3818	16	120	36	250	390	72	64	0.45	2.1	\$141.50
AK3819	19	130	42	300	460	86	76	0.7	3.4	\$213.00
AK3820	22	150	50	350	540	99	88	1.0	5.2	\$315.00
AK3821	25	175	55	400	610	113	100	1.25	7.7	\$478.50
AK19224	25	200	55	400	610	113	100	1.1	8.0	\$486.00
AK3874	28	200	100	420	680	150	100	1.5	11.3	\$611.50
AK3875	32	200	100	420	700	150	100	2.0	15.0	\$812.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JW

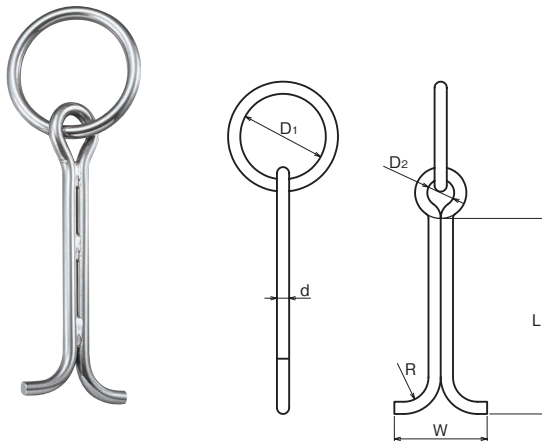


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	A (mm)	B (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3822	16	120	36	250	192	72	64	0.45	2.1	\$140.50
AK3823	19	130	42	300	228	86	76	0.7	3.4	\$210.00
AK3824	22	150	50	350	264	99	88	1.0	5.2	\$307.00
AK3825	25	175	55	400	300	113	100	1.25	7.7	\$480.50
AK19234	25	200	55	400	300	113	100	1.1	8.0	\$488.00
AK3876	28	200	100	410	312	150	100	1.5	11.2	\$637.00
AK3877	32	200	100	410	328	150	100	2.0	14.8	\$847.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JWM

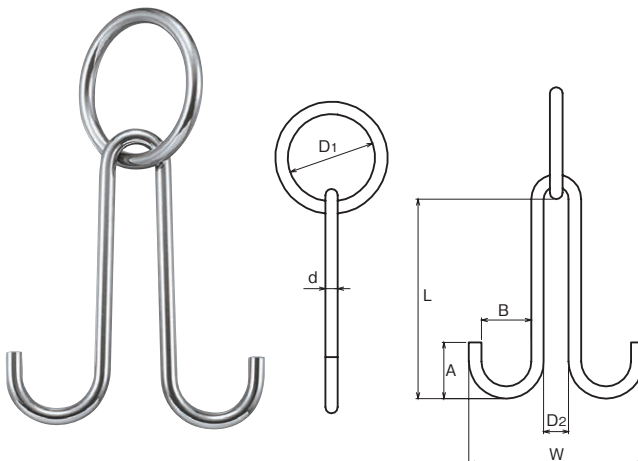


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	R (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3832	16	120	36	250	136	32	0.45	1.8	\$127.00
AK3833	19	130	42	300	154	38	0.7	3.1	\$189.50
AK3826	22	150	50	350	170	50	1.0	4.9	\$291.50
AK3827	25	175	55	400	190	50	1.25	7.2	\$419.00
AK19244	25	200	55	400	190	50	1.1	7.5	\$426.50
AK3878	28	200	100	410	200	50	1.5	9.8	\$535.00
AK3879	32	200	100	410	200	50	2.0	12.9	\$748.50

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JM

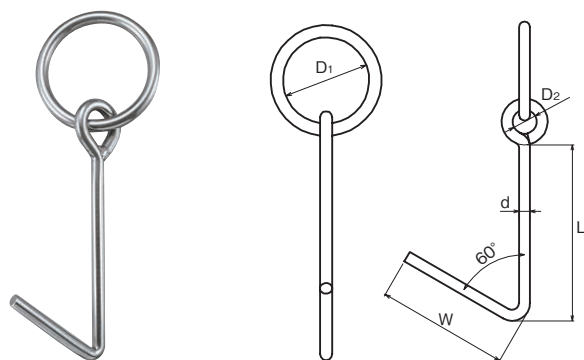


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	A (mm)	B (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3828	16	120	32	250	224	72	64	0.45	2.1	\$128.00
AK3829	19	130	38	300	266	86	76	0.7	3.4	\$185.00
AK3830	22	150	44	350	308	99	88	1.0	5.5	\$284.50
AK3831	25	175	50	400	350	113	100	1.25	7.7	\$444.50
AK19254	25	200	50	400	350	113	100	1.1	8.0	\$452.00
AK3880	28	200	100	500	412	150	100	1.5	11.2	\$582.00
AK3881	32	200	100	500	428	150	100	2.0	14.7	\$791.50

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JG

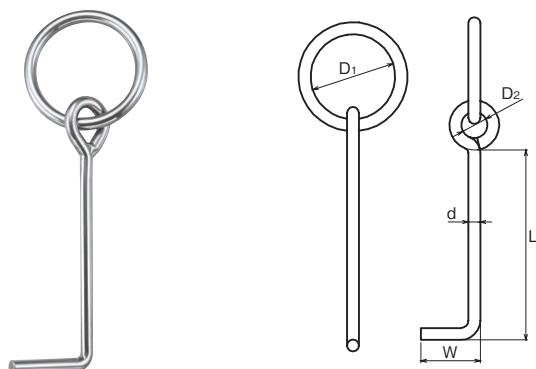


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3834	16	120	36	250	150	0.45	1.6	\$102.00
AK3835	19	130	42	300	200	0.7	2.9	\$174.50
AK3836	22	150	50	350	250	1.0	4.6	\$248.00
AK3837	25	175	55	400	300	1.25	7.0	\$373.00
AK19264	25	200	55	400	300	1.1	7.3	\$380.50
AK3882	28	200	100	550	300	1.5	9.5	\$511.50
AK3883	32	200	100	550	300	2.0	12.6	\$703.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JJ

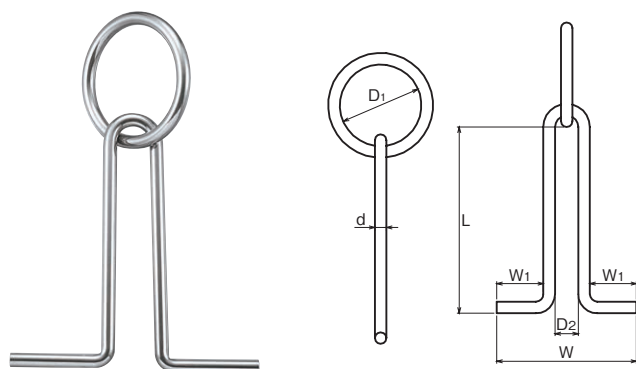


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3838	16	120	36	250	116	0.45	1.5	\$102.00
AK3839	19	130	42	350	119	0.7	2.7	\$168.50
AK3840	22	150	50	450	122	1.0	4.3	\$231.50
AK3841	25	175	55	550	125	1.25	6.4	\$360.00
AK19274	25	200	55	550	125	1.1	6.7	\$367.50
AK3884	28	200	100	550	188	1.5	9.0	\$496.00
AK3885	32	200	100	550	192	2.0	11.9	\$692.50

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JR

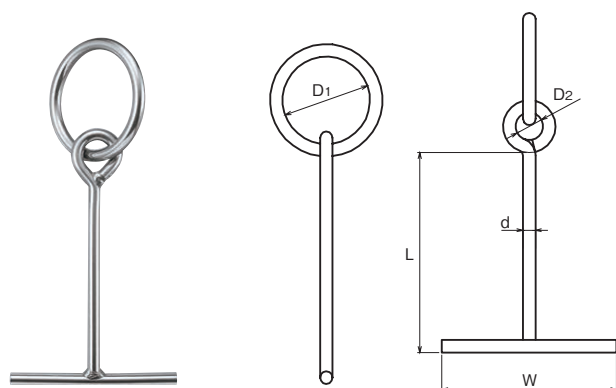


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	W ₁ (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3842	16	120	32	250	264	100	0.45	1.9	\$122.50
AK3843	19	130	38	300	276	100	0.7	3.3	\$192.50
AK3844	22	150	44	350	288	100	1.0	5.0	\$279.00
AK3845	25	175	50	400	300	100	1.25	7.2	\$380.00
AK19284	25	200	50	400	300	100	1.1	7.5	\$387.50
AK3886	28	200	100	450	476	160	1.5	9.7	\$522.50
AK3887	32	200	100	450	484	160	2.0	12.8	\$669.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JT

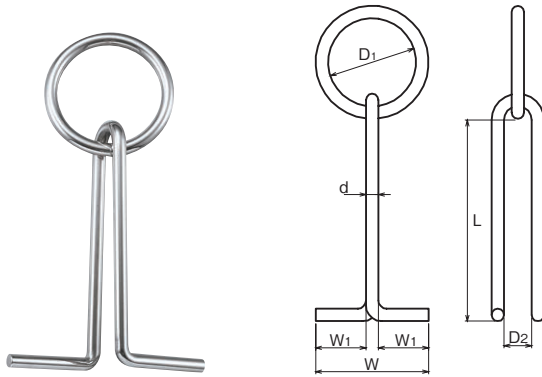


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3846	16	120	36	250	200	0.45	1.7	\$112.50
AK3847	19	130	42	300	250	0.7	2.9	\$180.50
AK3848	22	150	50	350	300	1.0	4.5	\$269.50
AK3849	25	175	55	400	350	1.25	6.6	\$373.00
AK19294	25	200	55	400	350	1.1	6.9	\$380.50
AK3888	28	200	100	550	400	1.5	10.0	\$522.00
AK3889	32	200	100	550	400	2.0	13.2	\$698.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JZ

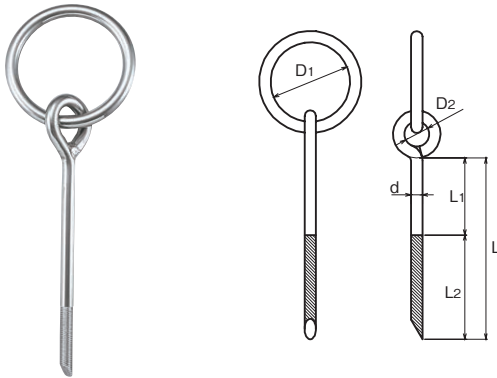


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	W (mm)	W ₁ (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3850	16	120	36	250	216	100	0.45	1.9	\$122.50
AK3851	19	130	42	300	219	100	0.7	3.3	\$172.50
AK3852	22	150	50	350	222	100	1.0	5.0	\$248.00
AK3853	25	175	55	400	225	100	1.25	7.2	\$378.00
AK19304	25	200	55	400	225	100	1.1	7.5	\$385.50
AK3890	28	200	100	450	348	160	1.5	10.3	\$514.50
AK3891	32	200	100	450	352	160	2.0	13.6	\$707.00

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JI

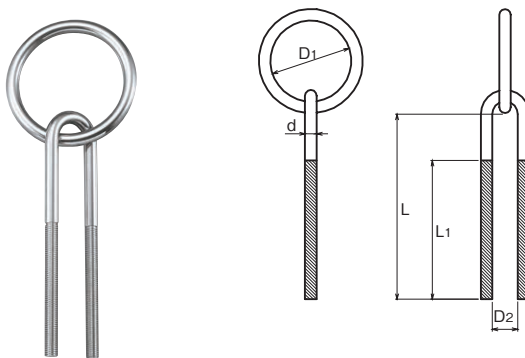


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3854	16	120	36	250	170	80	0.45	1.3	\$107.50
AK3855	19	130	42	300	170	130	0.7	2.3	\$177.50
AK3856	22	150	50	350	170	180	1.0	3.6	\$245.00
AK3857	25	175	55	400	170	230	1.25	5.3	\$331.50
AK19314	25	200	55	400	170	230	1.1	5.6	\$339.00
AK3892	28	200	100	450	170	280	1.5	7.6	\$470.00
AK3893	32	200	100	450	170	280	2.0	10.1	\$638.50

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

Mooring Ring Type JU

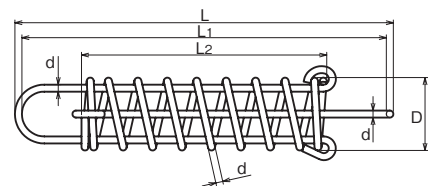


No.	Nominal dia. (d) (mm)	Inside dia. D ₁ (mm)	D ₂ (mm)	L (mm)	L ₁ (mm)	Working load limit (t)	Unit weight (kg)	List price
AK3858	16	120	36	250	150	0.45	1.6	\$118.00
AK3859	19	130	42	300	200	0.7	2.8	\$189.00
AK3860	22	150	50	350	250	1.0	4.3	\$300.50
AK3861	25	175	55	400	300	1.25	6.3	\$384.50
AK19324	25	200	55	400	300	1.1	6.6	\$392.00
AK3894	28	200	100	450	300	1.5	7.6	\$506.00
AK3895	32	200	100	450	300	2.0	10.1	\$695.50

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

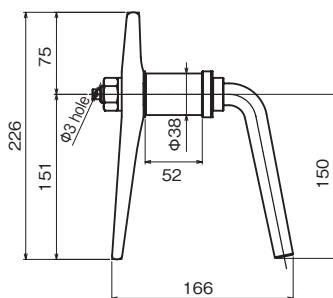
Mooring Spring



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	d (mm)	Working load limit (kg)	Unit weight (g)	List price
AK3790	5	270	260	175	52	5	80	380	\$41.40
AK3791	6	370	358	260	62	6	130	790	\$76.85
AK3792	10	480	460	340	79	10	250	3,000	\$201.00

* Material: SUS304

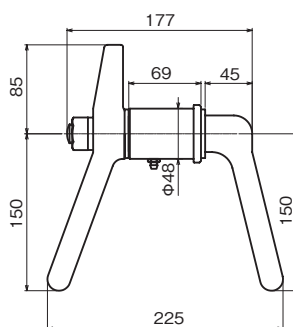
Door Clip Type B



No.	Unit weight (g)	List price
AK4900	1,550	\$138.25

* Material: SUS304, Inner handle = SCS13

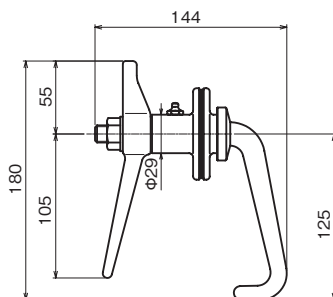
Door Clip Type JIS



No.	Unit weight (g)	List price
AK4903	3,070	\$560.05

* Material: SUS304
Inner, outer handle = SCS14 (equivalent to SUS316)
Bush/washer/grease nipple = brass
* Weathertight door clip B type (JIS F 2316)

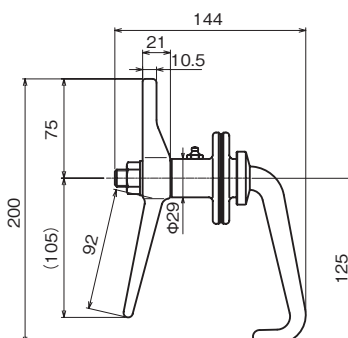
Door Clip Type N



No.	Unit weight (g)	List price
AK4901	1,000	\$131.00

* Material: SCS14 (equivalent to SUS316),
Nut/screw = SUS304
* Available for door boards up to 4 mm thick.

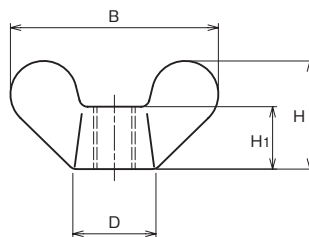
Door Clip Type N (S)



No.	Unit weight (g)	List price
AK4906	1,020	\$147.30

* Material: SCS14 (equivalent to SUS316),
Nut/screw = SUS304
* Available for door boards up to 4 mm thick.

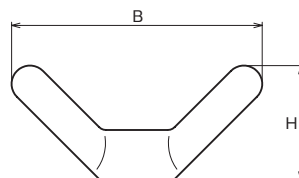
Wing Nut Wide



No.	Size	B (mm)	H (mm)	H ₁ (mm)	D (mm)	Unit weight (g)	List price
AK4590	M6	32	18	10.5	12.5	10	\$1.85
AK4591	M8	40	21	11	16	17	\$2.26
AK4592	M10	50	26	15	20	32	\$3.28
AK4593	M12	60	30	16	24	55	\$5.03

*Material: SCS13 (equivalent to SUS304)

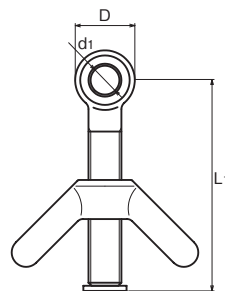
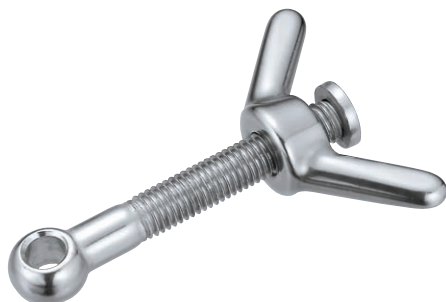
Wing Nut



No.	Size	B (mm)	H (mm)	Unit weight (g)	List price
AK4609	M10	57	26	35	\$4.03
AK4610	M12	74	34	80	\$8.60
AK4611	M16	90	42	160	\$13.40
AK4612	M20	107	49	230	\$24.35
AK4614	M24	162	74	680	\$52.20

*Material: SCS13 (equivalent to SUS304)

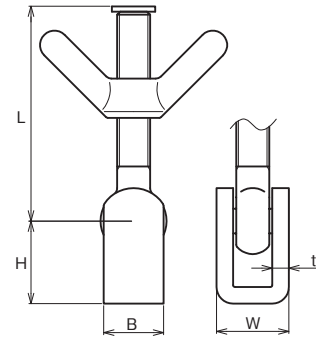
Wing Nut with Eye Bolt



No.	Size	L ₁ (mm)	d ₁ (mm)	D (mm)	Unit weight (g)	List price
AK4599	M10	60	7	20	90	\$12.15
AK4600	M12	80	10	26	160	\$20.40
AK4601	M16	100	14	32	330	\$32.75
AK4602	M20	120	17	40	550	\$45.55

*Material: SUS304, Wing nut = SCS13 (equivalent to SUS304)

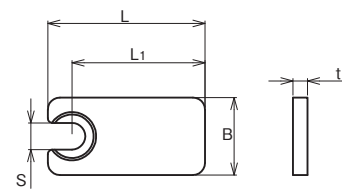
Wing Nut with Eye Bolt & U-plate



No.	Size	L (mm)	H (mm)	B (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK4640	M10×60	60	20	15	21	5	115	\$22.93
AK4641	M12×80	80	25	20	27	6	245	\$36.68
AK4642	M16×100	100	30	29	33	8	550	\$54.25
AK4643	M20×120	120	35	34	39	9	865	\$83.48

* Material: SUS304, Wing nut = SCS13 (equivalent to SUS304)

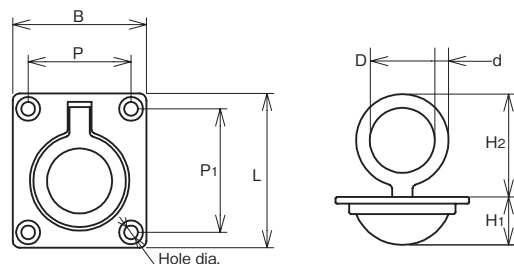
Fixing Plate for Wing Nut with Eye Bolt



No.	Size	L (mm)	L ₁ (mm)	B (mm)	S (mm)	t (mm)	Unit weight (g)	List price
AK4660	M10	65	55	32	11	6	85	\$14.28
AK4661	M12	83	70	38	15	9	195	\$17.93
AK4662	M16	101	85	44	18	12	375	\$36.63
AK4663	M20	119	100	50	22	16	650	\$52.75

* Material: SUS304

Flush Lift Ring



No.	d (mm)	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H ₁ (mm)	H ₂ (mm)	D (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3742	3	48.5	39	28.5	37	12	28	19.5	4.2	52	\$15.08

* Material: SCS14 (equivalent to SUS316)

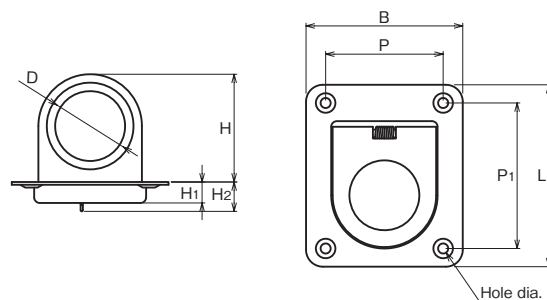
Flush Lift Pull



SS

S

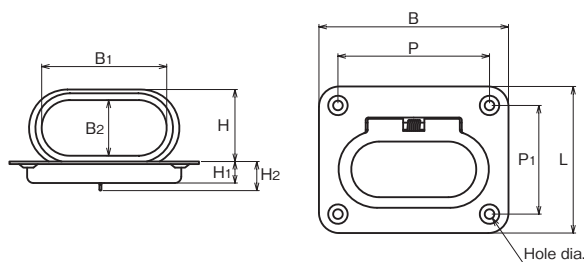
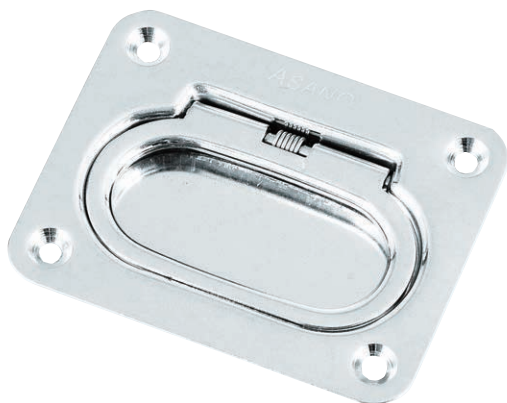
L



No.	Size	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	D (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3745	SS	44	38	29	35	25.5	7.5	10.5	17	3.5	23	\$6.85
AK3746	S	57	44	32	45	32.5	8.5	11	21	4	32	\$7.48
AK3747	L	65	56	42	52	39	7.5	10.5	25	3.6	46	\$8.79

* Material: SUS304

Flush Lift Handle



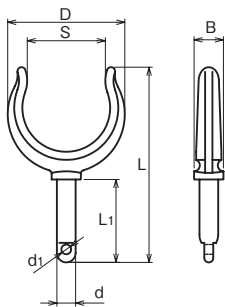
No.	L (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3744	58	75	49.5	22	60	43	28.5	8.5	11.5	3.8	52	\$8.88

* Material: SUS304

Oar Lock and Socket



Oar Lock
AK3760



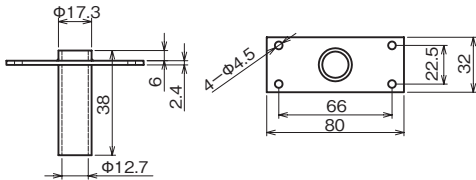
Oar Lock

Product name	No.	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	S (mm)	D (mm)	Unit weight (g)	List price
Oar lock	AK3760	11.5	5.8	120	50	13.5	47.5	72	142	\$22.13

* Material: SCS13 (equivalent to SUS304)



Socket
AK3761

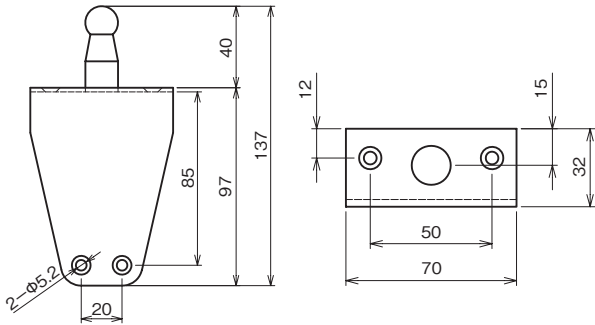


Socket

Product name	No.	Unit weight (g)	List price
Socket	AK3761	88	\$14.82

* Material: SUS304

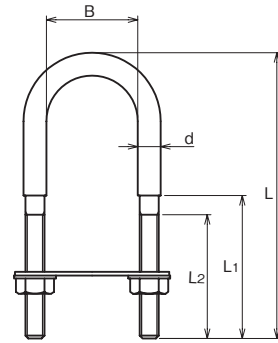
Rogui Oar Lock



No.	Unit weight (g)	List price
AK3755	160	\$48.40

* Material: SUS304

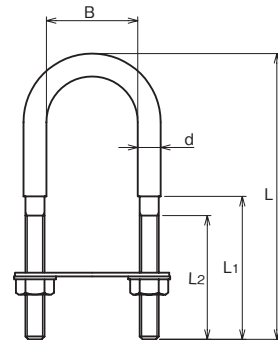
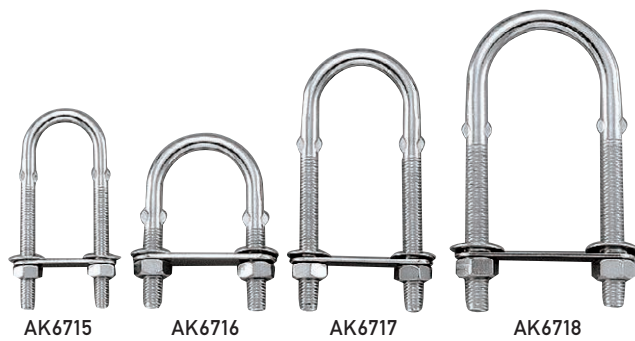
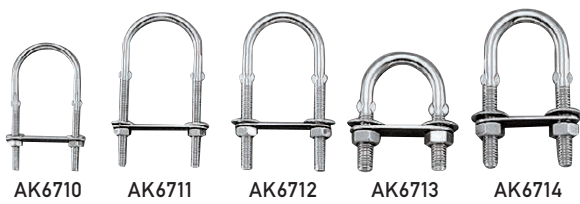
U Bolt



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK6700	80×24	10	80	30	30	24	M8	110	\$12.15
AK6701	100×24	10	100	45	45	24	M8	115	\$13.23
AK6702	130×24	10	130	80	65	24	M8	125	\$15.88
AK6703	100×30	10	100	50	40	30	M8	140	\$15.60
AK6704	80×40	10	80	25	25	40	M8	130	\$15.25
AK6705	110×52	10	110	65	45	52	M10	170	\$19.45
AK6706	150×48	12	150	75	65	48	M10	260	\$25.10

* Material: SUS304

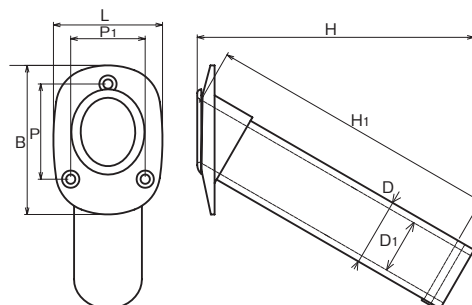
U Bolt Type HD



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK6710	65×27	3	65	30	30	27	M4	14	\$4.31
AK6711	80×32	4	80	45	45	32	M5	26	\$4.99
AK6712	80×30	5	80	45	45	30	M6	40	\$5.50
AK6713	60×28	7	60	23	23	28.5	M8	60	\$7.00
AK6714	80×28	7	80	40	40	28	M8	70	\$7.45
AK6715	100×28	7	100	65	65	28	M8	83	\$8.15
AK6716	90×41	9	90	40	40	41	M10	135	\$11.63
AK6717	130×41	9	130	80	80	41	M10	180	\$13.90
AK6718	150×55	11	150	85	85	55	M12	290	\$20.25

* Material: SUS304

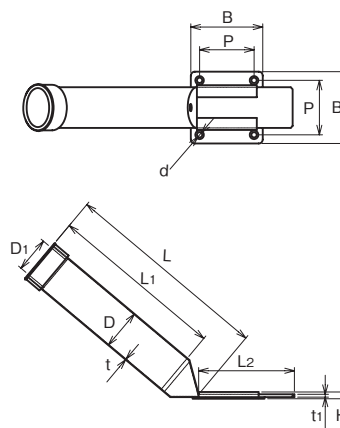
Rod Holder



No.	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	List price
AK3750	85	110	81	41	208	203	51	41	700	\$102.50

* Material: SCS13 (equivalent to SUS304), Pipe = SUS304, Cap = resin

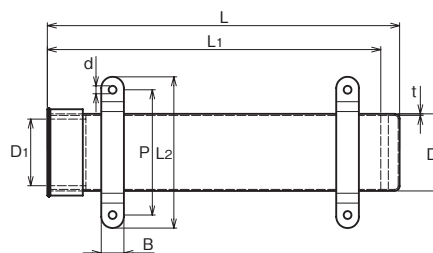
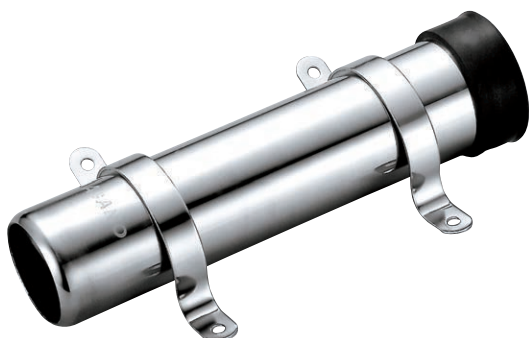
Removable Rod Holder



No.	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	H (mm)	D (mm)	D ₁ (mm)	t (mm)	t ₁ (mm)	Unit weight (g)	List price
AK3751	6.7	260	220	120	90	68.2	8.5	51	44	1	3.5	665	\$74.98

* Material: Main body/base = SUS316, Cap = rubber

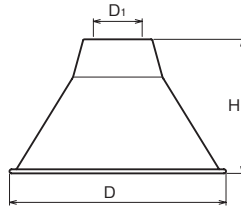
Side Mount Rod Holder



No.	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	P (mm)	D (mm)	D ₁ (mm)	t (mm)	Unit weight (g)	List price
AK3752	5.2	223	220.5	100	15	82.8	51	44	1	365	\$41.58

* Material: Main body/clamp = SUS316, Cap = rubber

Lamp Shade

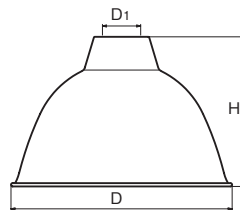


[Lamp shade]

No.	Size	H (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	Applicable light bulb socket	List price
AK4420	10"	155	270	46	480	E26(Small)	\$38.90
AK4421	12"	198	310	71	670	E39(Large)	\$73.05
AK4422	14"	240	350	71	1,100	E39(Large)	\$106.50

* Material: SUS304

Concentrating Shade

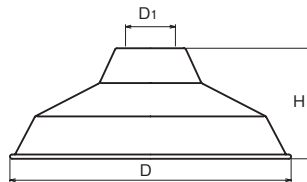


[Concentrating shade]

No.	Size	H (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	Applicable light bulb socket	List price
AK4425	7"	135	188	46	240	E26(Small)	\$32.60
AK4426	8"	155	220	46	340	E26(Small)	\$35.10
AK4427	11"	190	280	46	500	E26(Small)	\$55.50
AK4428	12"	240	325	71	880	E39(Large)	\$89.20
AK4429	14"	260	376	71	1,150	E39(Large)	\$116.25

* Material: SUS304

Widening Shade



[Widening shade]

No.	Size	H (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	Applicable light bulb socket	List price
AK4435	10"	103	262	46	267	E26(Small)	\$39.01

* Material: SUS304

● The values shown in the dimensions table of the 3 products above may differ from the actual products. If you want to know the exact size, please contact us.

● For the applicable sockets of the 3 products above, please refer to the Applicable light bulb socket column in the table listed under Light Bulb Socket and Arm on this page.

Light Bulb Socket and Arm

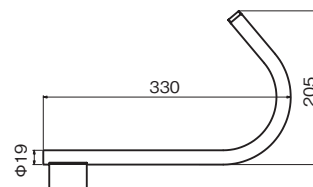


Arm installing type



Hanging type

Arm for Light Bulb Socket

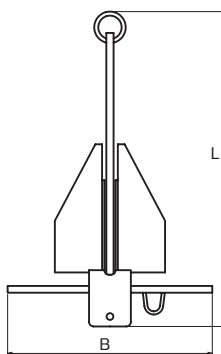


No.	Unit weight (g)	List price
AK4430	365	\$36.48

* Material: SUS304

* Sales of this product will cease when it is no longer in stock.

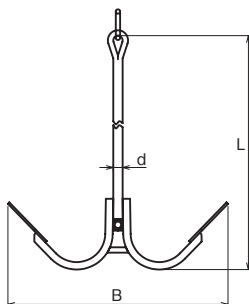
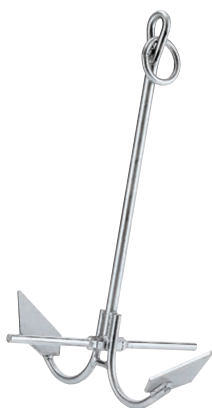
Danforth Anchor



No.	Unit weight	L (mm)	B (mm)	List price
AK3082	3.5kg	440	370	\$487.50
AK3083	5kg	520	400	\$695.00
AK3084	7kg	600	450	\$905.00

* Material: SUS304

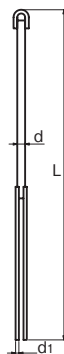
Kedge Anchor



No.	Unit weight	d (mm)	L (mm)	B (mm)	List price
AK3030	3.5kg	22	540	419	\$342.50
AK3031	5kg	22	700	508	\$505.00
AK3032	7kg	25	870	573	\$605.00
AK3033	10kg	28	990	653	\$800.00
AK3034	12kg	28	1,150	697	\$910.00
AK3035	15kg	32	1,260	815	\$1075.00
AK3036	20kg	36	1,500	875	\$1470.00

* Material: SUS304

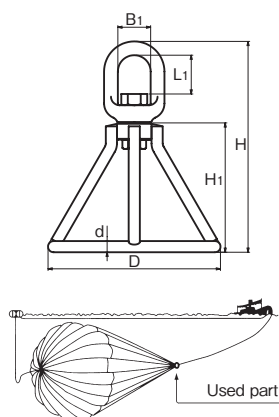
Four-Forked Anchor for Free Forming



No.	Unit weight	d (mm)	d ₁ (mm)	L (mm)	List price
AK3040	1.6kg	19	8	798	\$107.00
AK3041	2kg	22	8	821	\$135.00
AK3042	2.5kg	23	8	983	\$175.50
AK3043	3kg	25	8	995	\$203.00
AK3044	3.5kg	28	8	1,021	\$222.50
AK3045	5kg	32	8	1,175	\$300.00
AK3046	7kg	36	9	1,282	\$425.00
AK3047	10kg	40	10	1,506	\$570.00

* Material: SUS304

Sea Anchor



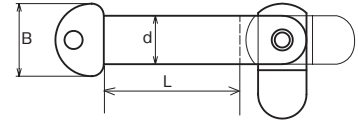
No.	Size	d (mm)	L ₁ (mm)	B ₁ (mm)	H (mm)	H ₁ (mm)	D (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK4101	6	5	17	16	93	60	75	0.12	130	\$55.30
AK4102	8	6	20	20	122	75	100	0.24	250	\$74.10
AK4103	9	8	22	22	136	85	115	0.4	290	\$92.50
AK4104	10	9	27	24	154	95	125	0.64	300	\$105.10
AK4105	13	10	35	31	196	120	160	1.07	600	\$133.05
AK4106	16	13	45	38	244	150	200	2.09	1,000	\$236.35
AK4107	19	16	50	42	294	180	235	3.6	1,600	\$356.00
AK4108	22	19	52	47	328	205	275	5.7	2,100	\$538.50
AK4109	25	22	67	63	380	235	310	9	2,600	\$803.00
AK18050	28	25	73	70	430	260	345	13.4	3,200	\$1144.00

* Material: SUS304

* Do not use under conditions of constant rotation.

* AK18050 is made to order.

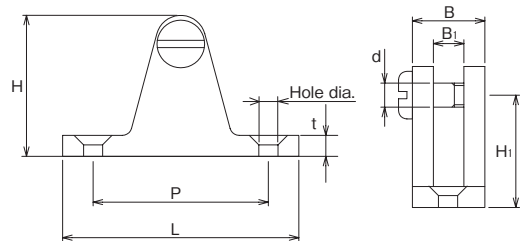
Toggle Pin Type A



No.	Size	d (mm)	B (mm)	L (mm)	Unit weight (g)	List price
AK3150	6×20	6	10	20	12	\$22.18
AK3151	8×25	8	12	25	25	\$23.38
AK3152	10×30	10	14	30	40	\$24.10
AK3153	12×35	12	18	35	60	\$28.90
AK3154	14×40	14	20	40	100	\$39.50
AK3155	16×45	16	24	45	132	\$44.98
AK3156	18×50	18	26	50	200	\$59.50
AK3157	20×55	20	30	55	260	\$65.90
AK3158	22×65	22	32	65	350	\$80.25

* Material: SUS303

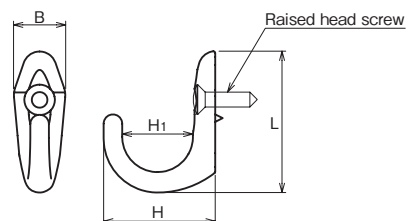
Deck Hinge



No.	d (mm)	L (mm)	H (mm)	H ₁ (mm)	B (mm)	B ₁ (mm)	t (mm)	P (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3765	6	62	37	29.5	19	8	5	46	5	97	\$14.26

* Material: SCS13 (equivalent to SUS304), Screw = SUS304

Coat Hook Type VS



No.	Size	L (mm)	B (mm)	H (mm)	H ₁ (mm)	Raised head screw (mm)	Unit weight (g)	List price
AK16500	S	29	12.5	22	13	φ3.5×L16	10	\$5.75
AK16501	M	38	14	30	19	φ4×L16	20	\$6.60

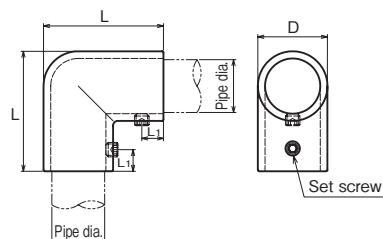
* Material: Special stainless steel, Raised head screw = SUS304

* Includes a wood screw

* This product is a hook for hanging clothes. Do not use for other purposes.

Pipe Joint (Hand Rail Fitting)

Elbow



No.	Size (pipe dia.) (mm)	L (mm)	L ₁ (mm)	D (mm)	Unit weight (g)	List price
AK2460	22	50	9	29	130	\$20.75
AK2461	25	51.5	6	33	160	\$24.40

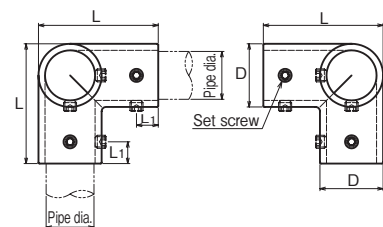
* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Three-Way



No.	Size (pipe dia.) (mm)	L (mm)	L ₁ (mm)	H (mm)	H ₁ (mm)	D (mm)	Unit weight (g)	List price
AK2462	22	55	10	55	41	29	190	\$34.35
AK2463	25	57	10	57	41	32	220	\$35.60

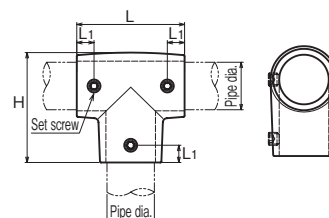
* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Tee



No.	Size (pipe dia.) (mm)	L (mm)	L ₁ (mm)	H (mm)	Unit weight (g)	List price
AK2464	22	50	8	51	150	\$24.25
AK2465	25	55	9	55	190	\$29.85

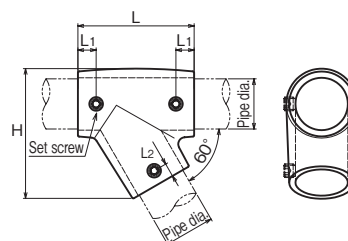
* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Angled Tee



No.	Size (pipe dia.) (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	H (mm)	Unit weight (g)	List price
AK2466	22	51	8	6	57	170	\$23.95
AK2467	25	57	7	7	65	200	\$32.70

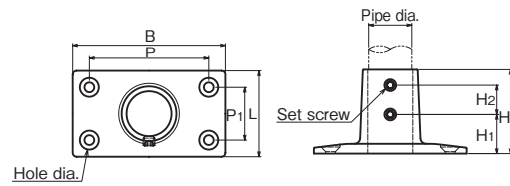
* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Straight Base



No.	Size (pipe dia.) (mm)	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK2468	22	44	78	61	27	43	20	15	4.5	170	\$27.05
AK2469	25	48	83	66	29	45	21	16	6	220	\$33.60

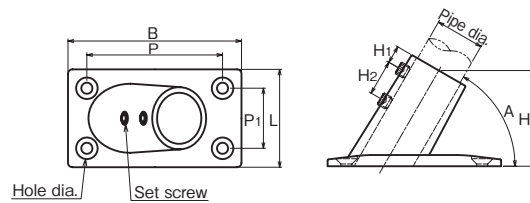
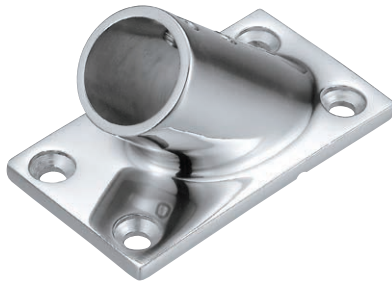
* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Angled Base



No.	Size (pipe dia.) (mm)	L (mm)	B (mm)	P (mm)	P ₁ (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	A (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK2470	22	44	78	61	27	35	8	16	45°	5.5	185	\$28.58
AK2471	25	48	83	66	29	35	8	16	45°	6	195	\$29.63
AK2472	22	44	78	61	27	43	8	16	60°	5	195	\$28.73
AK2473	25	48	83	66	29	43	8	16	60°	6	205	\$29.78

* Material: SCS14 (equivalent to SUS316), Set screw = SUS304

* Set screws: Hexagon socket set screws (1/4-28UNF)

* Use a hexagon wrench (1/8").



Stanchion, Two-Leg

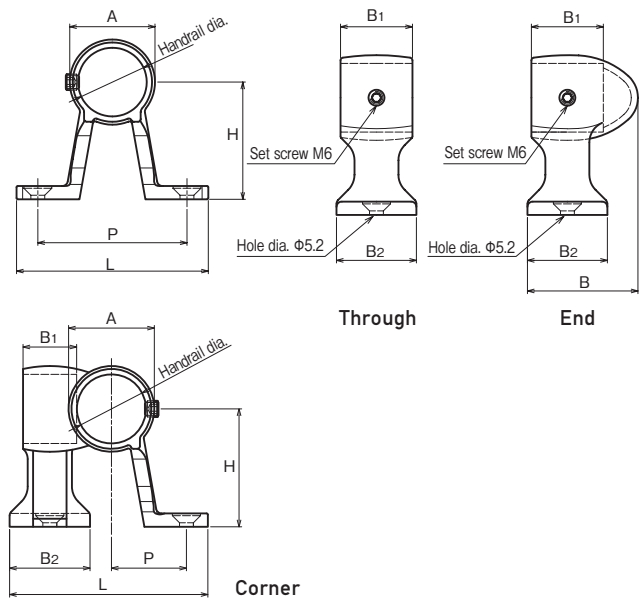


End

Through



Corner



Through

End

Corner

No.		Size (handrail dia.) (mm)	H (mm)	A (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	L (mm)	P (mm)	Unit weight (g)	List price
AK2474	End	25	43	32	41.5	27	30	72	56	125	\$20.38
AK2475	Through	25	43	32	–	27	30	72	56	115	\$18.83
AK2476	Corner	25	43	32	–	20	30	74	28	165	\$36.98

* Material: SCS14 (equivalent to SUS316), Set screw = SUS304



Fishing Gear

Pursuing what professional tools should be

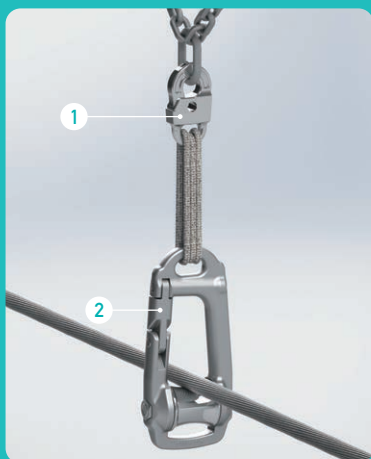
Fishing gear is a crucial tool to get sure results at decisive moments. Stainless steel fishing gear is durable, and shows full potential in severe environments such as those affected by tides and wind. For ASANO fishing gear, we have focused on solving fishing problems with reliable tools, and maintaining the safety of users. The simplicity and high operability of stainless steel casting can surely answer professional needs.





● Usage examples of fishing gear for a round haul net

A

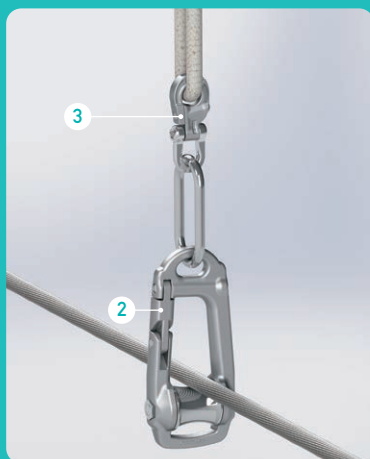


① Auto Shackle [P137]

② Purse Ring [P145]

The purse ring part can be easily put on and taken off using the Auto Shackle. The Purse Ring adopts a large-diameter roller and large-diameter shaft to lengthen service life. In addition, the original gate opening/closing mechanism makes operations much easier.

B

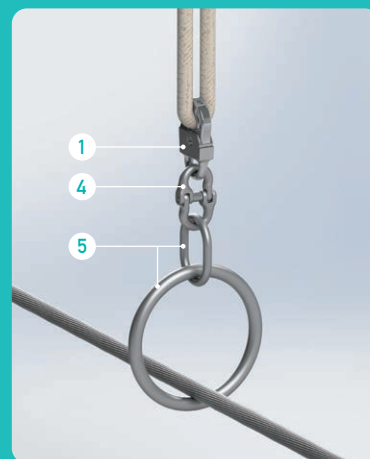


③ Purse Snap Shackle Type II [P141]
(Purse Auto Shackle [P140])

② Purse Ring [P145]

The Purse Snap Shackle Type II is easy to link with welded round rings because its ring part is a shackle. The gate opens by passing a rope through the hole of the lock pin and pulling it. You can also use a Purse Auto Shackle depending on your open/close method preference. It can open the gate by inserting a spike.

C



① Auto Shackle [P137]

④ Purse Coupling [P146]

⑤ Main/sub ring

The Purse Coupling adopts special stainless steel and excels in strength and durability. It is suitable for linking fishing gear under severe usage conditions.

The Auto Shackle is suitable for frequent mounting and unmounting.

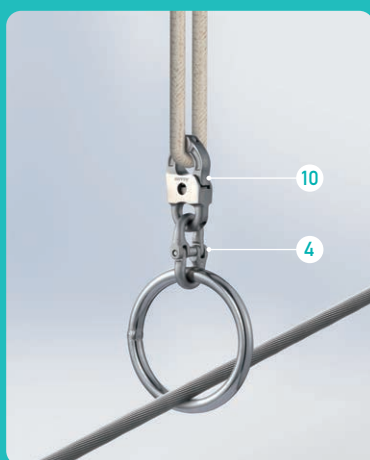
G



① Auto Shackle [P137]

④ Purse Coupling [P146]

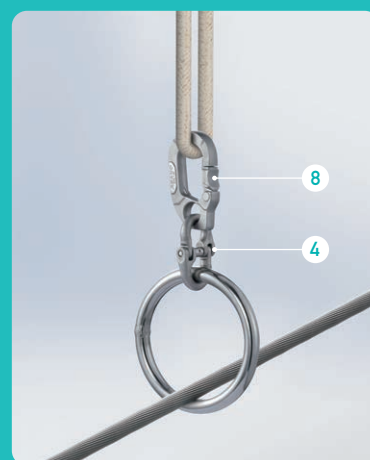
H



⑩ Auto Shackle Type III [P136]

④ Purse Coupling [P146]

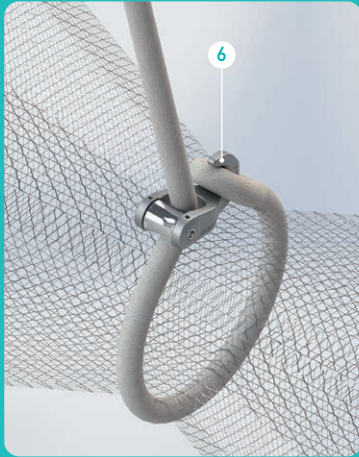
I



⑧ Snap Hook [P134]

④ Purse Coupling [P146]

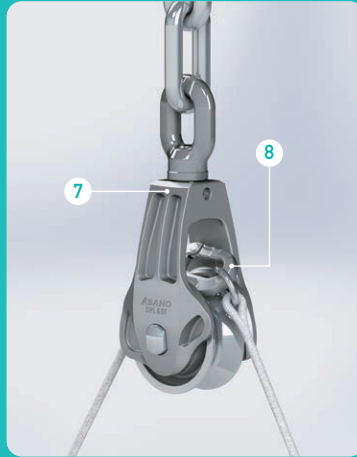
D



⑥ Choker Hook-R [P142]

Choker Hook-R is used for narrowing down fishnets. The hook part and the roller support part are made thick to increase the strength. The inside of the body protrudes to the roller part to prevent ropes from being caught.

E

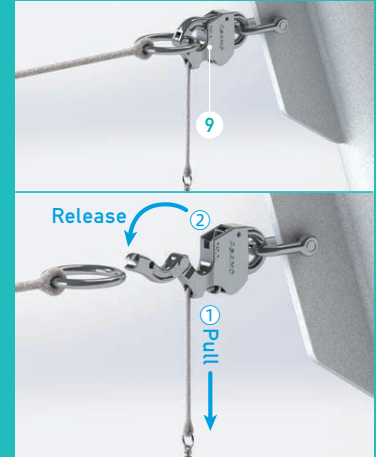


⑦ Tough Hanging Roller Type II [P028]

⑧ Snap Hook [P134]

Enough space for the width inside the Tough Hanging Roller Type II is secured to allow smooth passing of ropes with metal fittings. The Snap Hook (size 1SH) is designed to pass through the inside of the Tough Hanging Roller Type II (size 150), making them an ideal combination

F

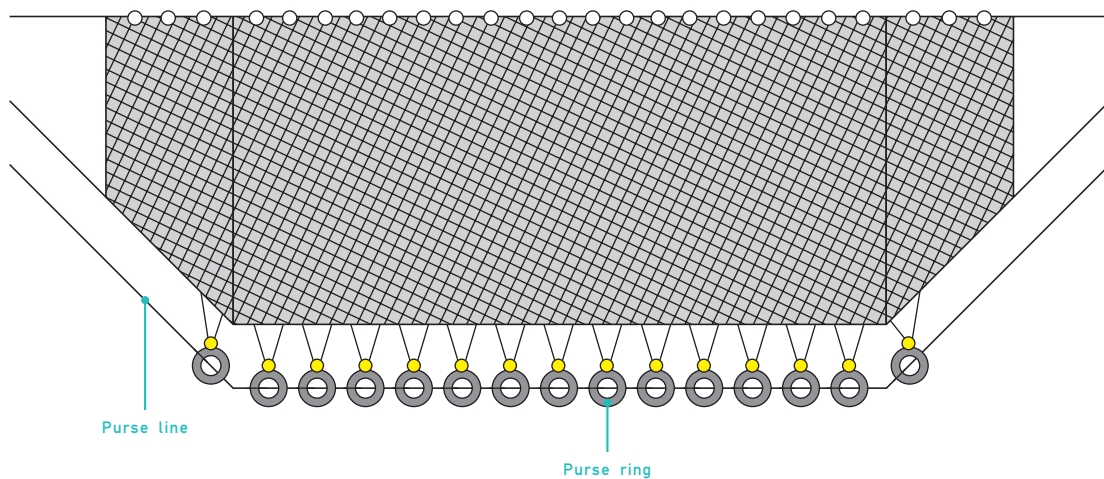


⑨ Auto Shackle Type II [P138]

The gate of the Auto Shackle Type II can be easily released by pulling the rope attached to the side of its body. This provides excellent convenience when releasing the gate quickly by remote control is necessary.
* The gate can be locked by inserting a separately-sold lock pin.

ASANO's Auto Shackle can be used effectively at locations where linking and releasing are required as shown in the following figure. In addition to the applications shown in examples A and C, combinations such as G and H are also available.

● Sections where Auto Shackles are used for a round haul net.



Snap Hook PAT.

Product features



Adopts an interlock system

A large working load limit is achieved with its palm size

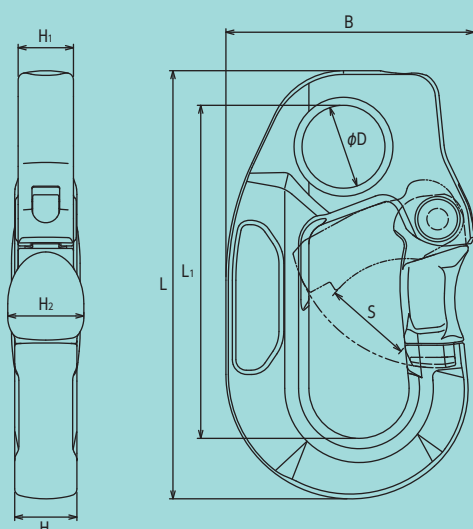
An interlock system is employed for greater strength. The hook part firmly supports the load.



Good operability is ensured by smooth movement of the gate and the wide opening.



The rounded gate fits well with fingers and ropes.



Combination example

Purse Coupling (P146)

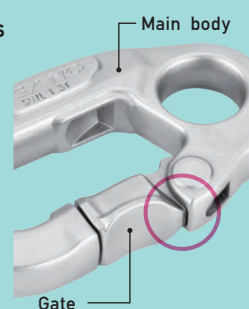
+ Snap Hook

The friction on the ropes can be reduced by using a Purse Coupling for connection rather than directly attaching a rope to the Snap Hook.



Usage precautions

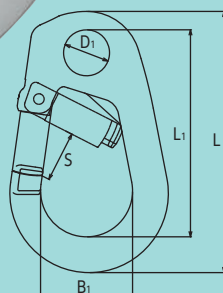
Your fingers may be caught between the body and the gate when opening and closing the gate due to the structure of the product. Wear gloves and take care that your fingers do not get caught.



No.	Size	S (mm)	L (mm)	L ₁ (mm)	B (mm)	H (mm)	H ₁ (mm)	H ₂ (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK18315	1SH	25	124	96	72	18	16	22	24	600	1,300	\$200.00
AK18316	2SH	30	143	110	81	20	18	24	27	900	1,800	\$247.50

* Material: Special stainless steel, Spring = SUS304, Lock pin = copper alloy, Set screw = SUS304

Snap Ring Type IL PAT.P.



Product features



Adopts an interlock system

Working load limit is doubled

The hook part firmly supports the load with interlock.

Compared to conventional Snap Ring, the working load limit is doubled without significantly increasing the weight.



Snap Ring
Size: 3SR

Working load limit: 0.75 t

Working load limit
doubled

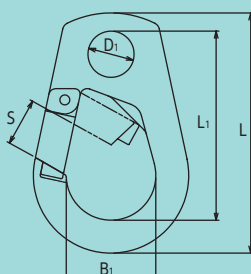
Snap Ring Type IL
Size: 3SR

Working load limit: **1.5 t**

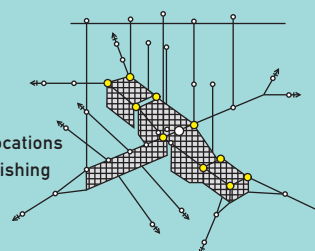
No.	Size	L (mm)	L ₁ (mm)	B ₁ (mm)	S (mm)	D ₁ (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK18302	3SR	256	203	90	50	45	3.7	1,500	\$1106.50

* Material: Special stainless steel, Spring = SUS304, Lock pin = HBsB, Set screw = SUS304

Snap Ring



● Snap Ring locations
for a fixed fishing
net



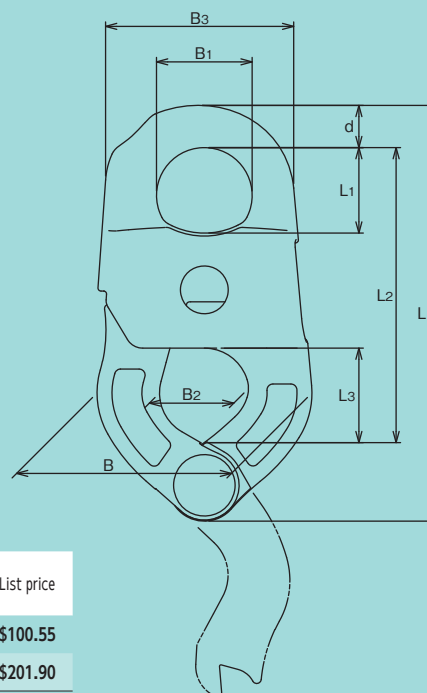
No.	Size	L (mm)	L ₁ (mm)	B ₁ (mm)	S (mm)	D ₁ (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK4230	1SR	167	135	64	32	33	1.4	450	\$390.00
AK4231	2SR	205	161	80	40	39	2.2	700	\$705.00
AK4232	3SR	240	187	94	53	45	3.2	750	\$1026.00

* Material: Special stainless steel, Spring = SUS304, Lock pin = HBsB, Set screw = SUS304

Auto Shackle Type III



The diameter of the main body shaft is 12 mm with a high degree of strength. The hook with new specifications is designed exclusively for this model, demonstrating our commitment to details.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	Hex. wrench dia. (mm)	Unit weight (g)	Working load limit (t)	List price
AK18235	M	11	112	20	80	29	58	23.5	28	48	5	370	0.8	\$100.55
AK18236	L	14	139	29	99	32	72	32	30	63	6	860	1.3	\$201.90

* Material: Special stainless steel

* This product is a fishing gear. Do not use it as a hanging hook for cargo handling.

* The gate may open unintentionally due to physical shock.

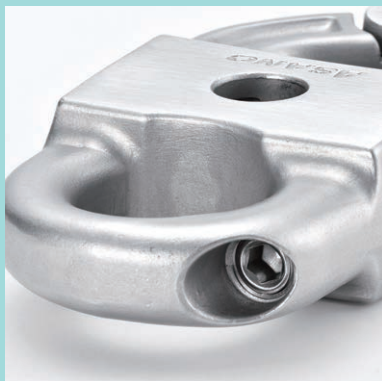
* Spare springs and screws are available (sold separately). Please contact us.

* Avoid releasing the gate while a load is applied. If the gate is released while a load is applied, the main unit may be subjected to strong impact and the product may be damaged, or an accident may occur, such as a released load hitting the surrounding objects or people.

Product features

Replaceable spring

If the performance of the spring deteriorates due to certain factors such as aging, it can be replaced with a new one by removing the socket head screw at the top of the Auto Shackle using a hexagon wrench.



Gate release operation

Inserting a tool such as a spike into the hole of the main body will enable the gate to be easily released.



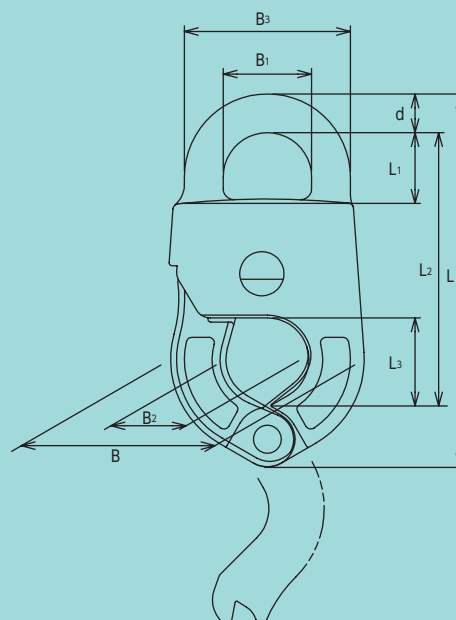
Caution

- Since the screw may become loose, periodically check it before use.
- When replacing the spring, also replace the screw with a new one.
- After replacing the spring, apply a screw locking agent such as Locktite to the screw, and then tighten it.

Auto Shackle



The gate can be easily released by inserting a spike.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	Unit weight (g)	Working load limit (t)	List price
AK2195	L	14	135	24	98	32	70	32	30	60	730	1.3	\$181.95

* Material: Special stainless steel

* This product is a fishing gear. Do not use it as a hanging hook for cargo handling.

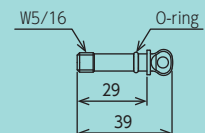
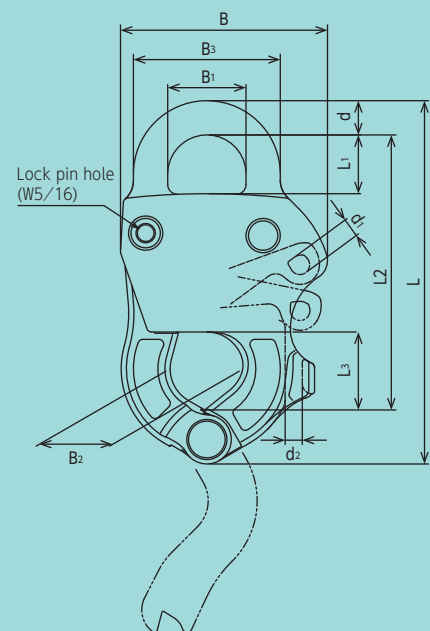
* The gate may open unintentionally due to physical shock.

* Avoid releasing the gate while a load is applied. If the gate is released while a load is applied, the main unit may be subjected to strong impact and the product may be damaged, or an accident may occur, such as a released load hitting the surrounding objects or people.

Auto Shackle Type II PAT.



A guide for a release cord is created. The guide allows the gate to be released while the release cord is pulled from various directions.



Lock pin
 * Material: SUS304
 * O-ring: Rubber(size: P4)

This product is temporarily unavailable due to product refinement. Redesigned model is scheduled to be launched in 2019.

No.	Size	d (mm)	d ₁ (mm)	d ₂ (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	Unit weight (g)	Working load limit (t)	List price
AK18231	L	14	7	9	148	24	112	32	85	32	30	60	1,100	2.0	\$286.50

* Material: Special stainless steel

* This product is a fishing gear. Do not use it as a hanging hook for cargo handling.

* The gate may open unintentionally due to physical shock. Be sure to use a lock pin when sudden loads on connecting objects or the hardware are expected, or when the gate does not need to be opened for a long time.

* The lock pin is sold separately.

* Avoid releasing the gate while a load is applied. If the gate is released while a load is applied, the main unit may be subjected to strong impact and the product may be damaged, or an accident may occur, such as a released load hitting the surrounding objects or people.



When lock pin (sold separately) is installed



When gate is released



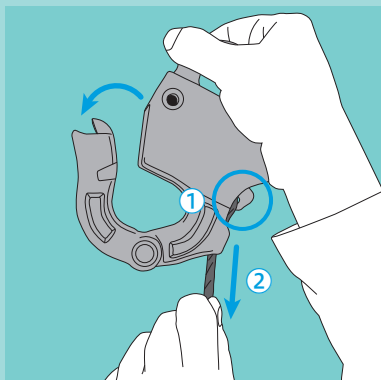
Lock pin (sold separately)

The lock pin has an O-ring for loosening prevention to prevent it from falling off.

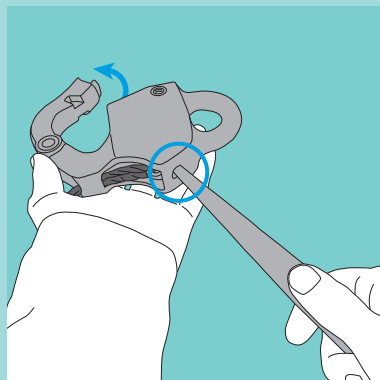
Product features

Gate release operation

The gate can be released remotely by pulling an attached rope. A spike can also be used to release the gate.



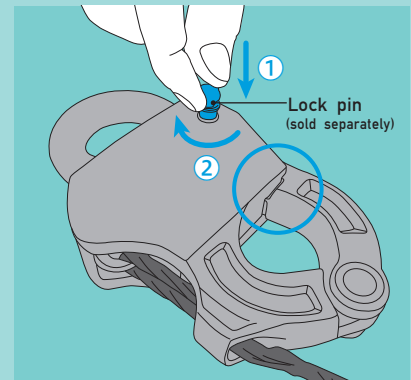
- 1 Pass a rope through the hole for ropes.
- 2 The gate can be easily released by pulling the rope.



The gate can be easily released by inserting a spike into the hole on the side.

Locking function of gate release

The gate can be locked with a separately-sold lock pin.



- 1 Insert a lock pin into the lock pin insertion hole and 2 screw it to lock the gate.
- 2

Purse Auto Shackle PAT.

Product features

High
Stainless 1

High
Stainless 2

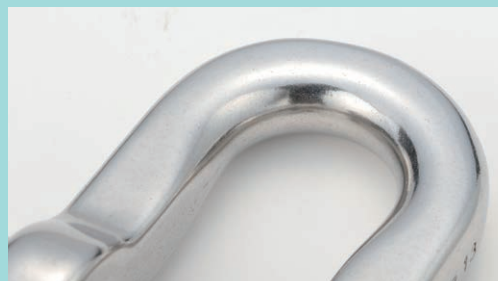
Pin loosening prevention mechanism

Fixing is performed with a screw and a snap ring. This efficiently prevents loosening of the pin.



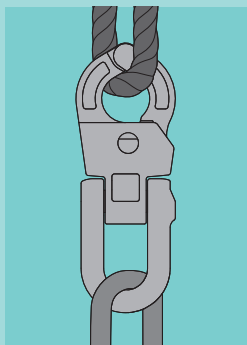
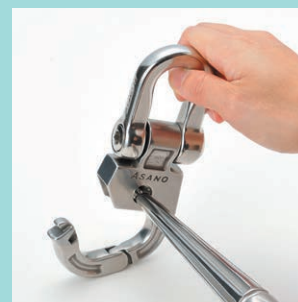
Moderate curved shape

The curved shape is gentle on the ropes. It prevents damage to ropes to improve their service life.

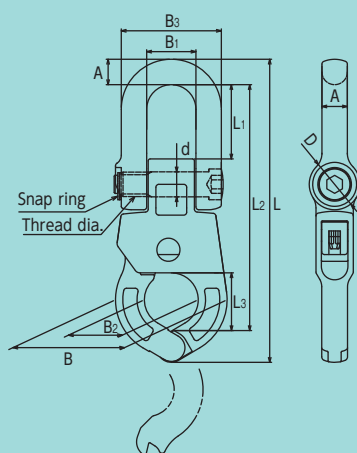


Easy gate release

The gate can be easily released by inserting a spike.



This provides excellent convenience when you repeatedly connect and disconnect with ropes and rings.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	A (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	Snap ring size (mm)	Unit weight (g)	Working load limit (kg)	List price
AK18200	M	13	158	39	128	30	13	58	26	28	52	26	W1/2	8	8	630	800	\$174.45

* Material: Special stainless steel, Pin = SUS316, Snap ring = SUS304

* This product is a fishing gear. Do not use it as a hanging hook for cargo handling.

* The gate may open unintentionally due to physical shock.

* Avoid releasing the gate while a load is applied. If the gate is released while a load is applied, the main unit may be subjected to strong impact and the product may be damaged, or an accident may occur, such as a released load hitting the surrounding objects or people.

Purse Snap Shackle Type II PAT.

● Product features

High
Stainless 1**High**
Stainless 2Remote release operation by rope

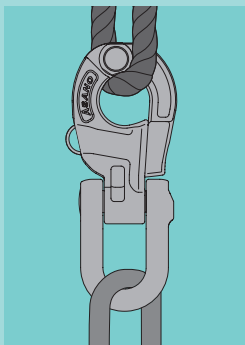
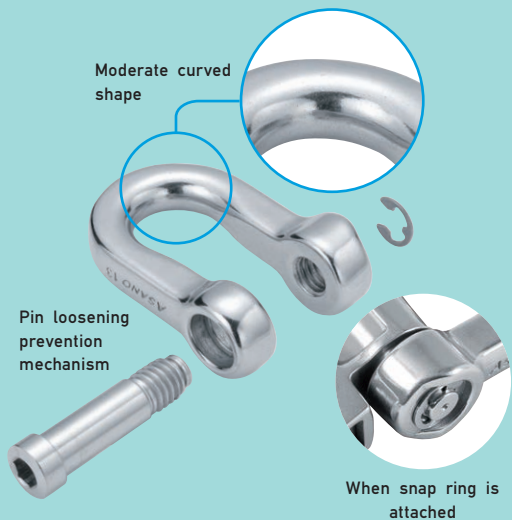
The gate can be widely opened by attaching a rope and pulling it. A great advantage is that the gate can be released by remote control.

Significantly increased strength

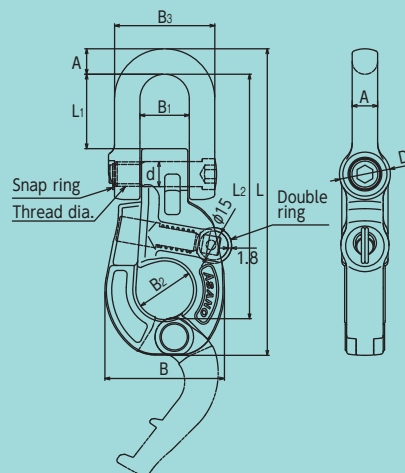
When the gate is closed, the tab at the tip of the gate securely enters the body to support the load.

Pin loosening prevention mechanism and moderate curved shape

Fixing is performed with a screw and a snap ring to prevent the pin from falling off. The moderate curve inside the body prevents damage to ropes.



This provides excellent convenience when you repeatedly connect and disconnect with ropes and rings.



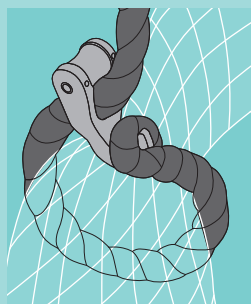
No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	A (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	D (mm)	Thread dia.	Hex. wrench dia. (mm)	Snap ring size (mm)	Unit weight (g)	Working load limit (kg)	List price
AK18225	M	13	159	39	127	13	62	26	30	52	26	W1/2	8	8	840	800	\$177.60

* Material: Special stainless steel. Shackle pin = SUS316, Snap ring = SUS304, Lock pin = special stainless steel, Double ring (wire diameter $\Phi 1.8$, inner diameter $\Phi 15$) = SUS304

* This product is a fishing gear. Do not use it as a hanging hook for cargo handling.

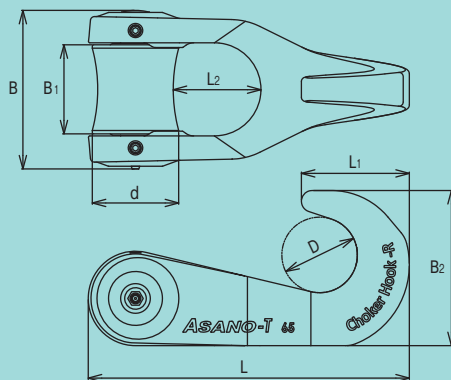
* Avoid releasing the gate while a load is applied. If the gate is released while a load is applied, the main unit may be subjected to strong impact and the product may be damaged, or an accident may occur, such as a released load hitting the surrounding objects or people.

Choker Hook-R



The choker hook is designed for round haul net fishing. It allows smooth narrowing because the roller reduces friction of ropes.

Special stainless steel is used, with excellent strength and durability.

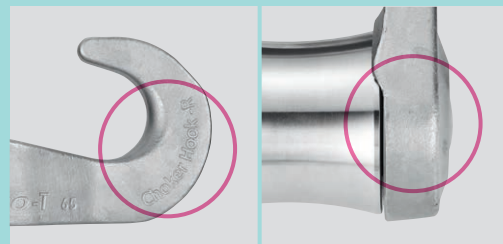


Product features



Increased thickness of the hook and roller support part

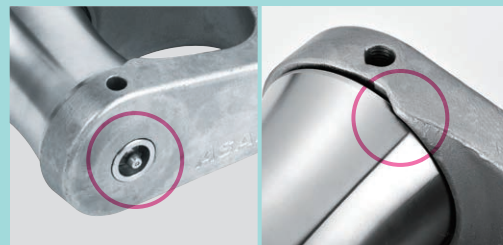
The strength of the hook is increased. The thickness of the body that supports the roller pin is also increased. They serve to support stable rotation of the roller.



Prevents ropes from being caught or wound up

The projection of the grease nipple on the roller shaft edge is restrained to prevent nets and ropes from being caught.

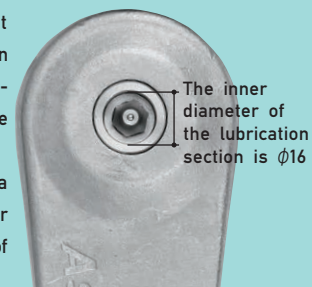
In addition, the inside of the body protrudes to prevent ropes from being caught.



How to lubricate

Lubricate the roller shaft through the grease nipple on the side of the body to maintain good roller rotation. Use a grease gun to lubricate.

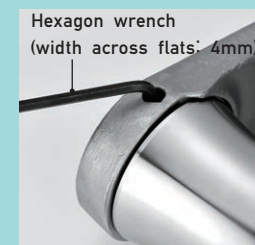
* Use a grease gun with a nozzle size that is smaller than the inner diameter of the lubrication section.



How to remove the roller

Use a hexagon wrench to remove the roller.

* When reinstalling a roller, apply ThreeBond MEC thread lock (No. 2446) or similar adhesive to the thread.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	D (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (t)	List price
AK18101	65	64	238	80	65	117.5	66	115	56	4	6.0	3.4	\$790.00

* Material: Special stainless steel, Roller pin = SUS316, Bush = bronze

Purse Ring Type BL

New Product



Unique gate design

The gate can be opened by pressing the button down. An interlocking system, which enables the hook part to be securely locked into the body, has been employed, to generate a high working load.



The roller part that makes the difference

The shape of the roller edge part covers the body to prevent the purse line from rubbing against it. The roller can be removed and replaced.

To replace the roller,

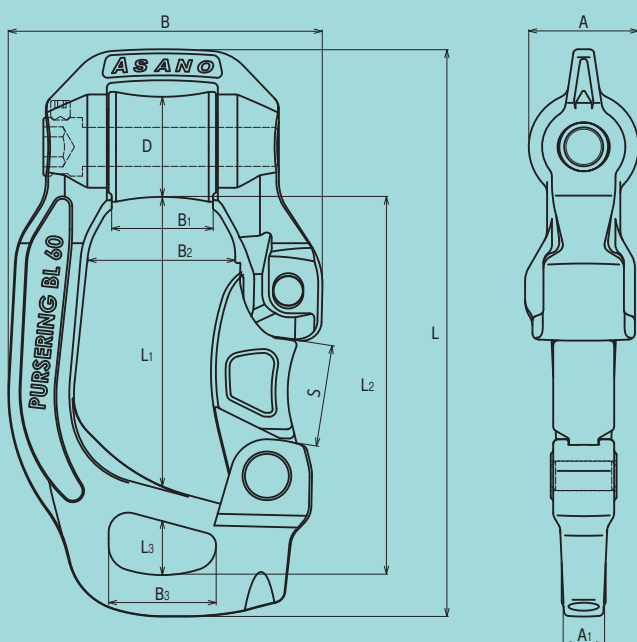
- 1 Remove the hexagonal socket head set screw (M8).
- 2 Remove the roller shaft (M16).

After reinstalling the roller, apply ThreeBond MEC thread lock (No. 2446) or similar adhesive to the thread of ①.



Replaceable spring

If the performance of the spring deteriorates due to certain factors such as aging, the built-in spring can be replaced by removing the screw.



No.	Size	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	A (mm)	A ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	S (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK18280	60	41	233	119	155	22	45	16	129	41.5	60	44	41	4•6•8•14	2.5	TBD	\$419.50

* Material: Special stainless steel, Roller shaft/spring/set screw = SUS304, Bush/lock pin = copper alloy

* This product will be available for sale in September 2018.



Purse Ring Type O

New Product



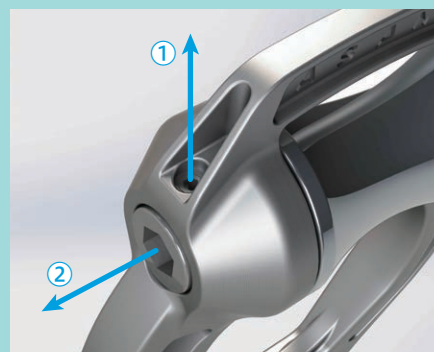
Product features

Original roller edge part



The roller edge part covers the body to prevent the body and purse line from rubbing against each other. Moreover, the roofed body prevents nets and ropes from getting caught.

Easy roller replacement



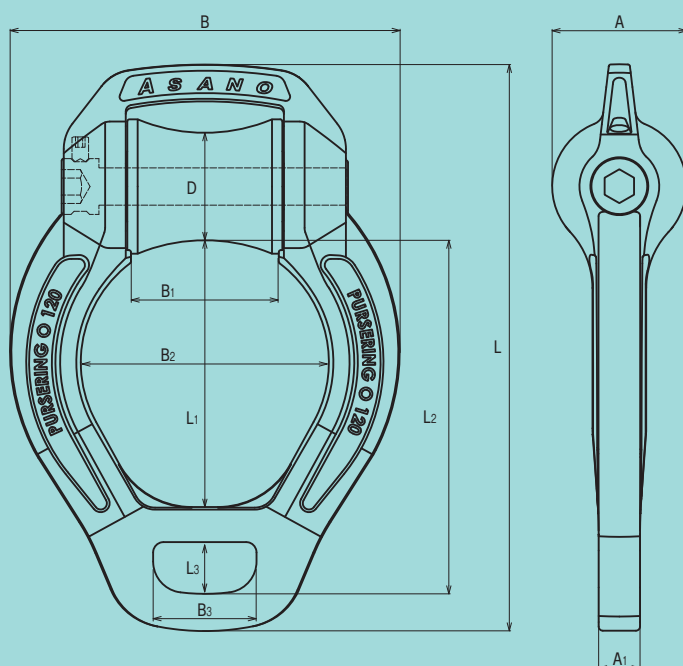
A worn roller can be replaced by using a hexagon wrench. Enabling easy replacement of parts reflects ASANO's policy to have our customers use our products for a long period of time.

To replace the roller,

① Remove the hexagonal socket head set screw (M8).

② Remove the roller shaft (M18).

After reinstalling the roller, apply ThreeBond MEC thread lock (No. 2446) or similar adhesive to the thread of ①.



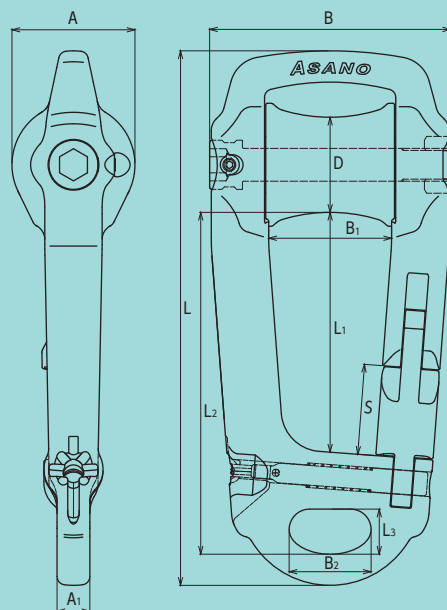
No.	Size	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	A (mm)	A ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	B ₃ (mm)	Hex. wrench dia. (mm)	Unit weight (kg)	Working load limit (kg)	List price
AK18291	120	52	274	129	171	25	65	20	189	71.5	120	50	4·14	4.1	TBD	\$531.20

* Material: Special stainless steel, Roller shaft/set screw = SUS304, Bush = copper alloy

* This product will be available for sale in November 2018.

Purse Ring

PAT.P.



High
Stainless 1

High
Stainless 2



No.	Size	D (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	A (mm)	A ₁ (mm)	B (mm)	B ₁ (mm)	B ₂ (mm)	S (mm)	Double ring	Unit weight (kg)	Working load limit (kg)	List price
AK18275	80	58	326	146	209	28	75	20	147	75	50	55	φ2 x Inner diameter 25	7.4	2,500	\$726.00

* Material: Main body = special stainless steel, Roller = special steel
Roller shaft (bolt, nut)/set screw/spring/double ring = SUS304,
Lock pin = special stainless steel

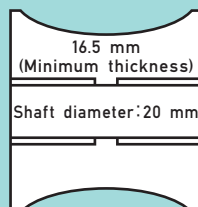


Product features

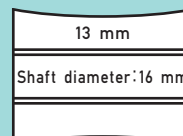
Large-diameter roller and large-diameter shaft

The large-diameter roller and the large-diameter shaft enlarge the volume and surface area to prevent cracks and lengthen service life. The easy-to-disassemble shaft consists of a bolt and nut, and is double-locked with a rivet and set screw.

ASANO roller



Other rollers



Roller edge part, roofed body

The roller edge part covers the body to prevent this part of the body and wire ropes (purse line) from rubbing against each other. Moreover, the roofed body makes it hard for nets and ropes to get caught.



Opening/closing gate

You can open the gate by inserting a round bar about φ6 to the hole of the lock pin end. You can keep the lock released by inserting the round bar, as shown on the right or by pulling the ring on the lock pin end and rotating the lock pin so that the ring is in the diagonal groove.



Block

Rigging Hardware

Ship Equipment

Fishing Gear

Wire Rope



Purse Coupling

Product features

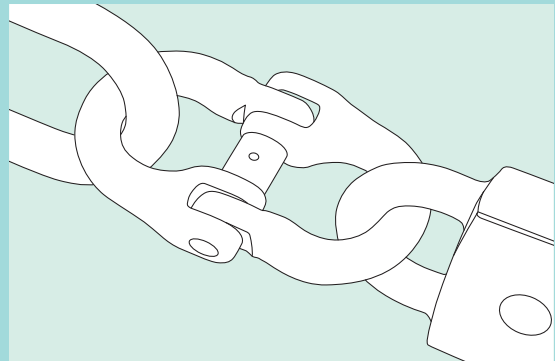


Usage

This is rigging hardware designed for fishing gear used for round haul nets.

Use it to connect an Auto Shackle and a Purse Ring. The large inner diameter of the ring improves the degree of freedom for the connecting part.

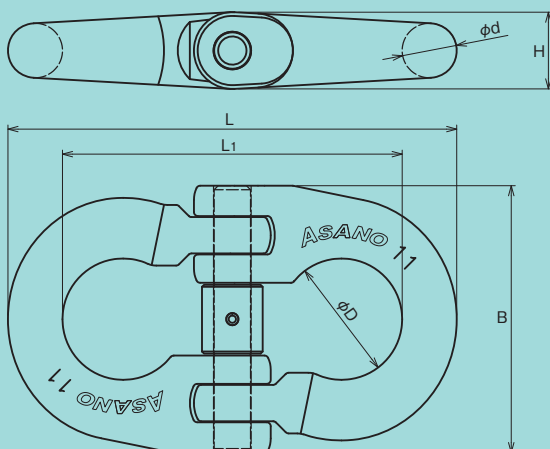
Special stainless cast steel is used for the body, with excellent strength and durability. (It cannot be used for general cargo handling purposes.)



Combination example

Purse Coupling + Snap Hook (⇒P134)

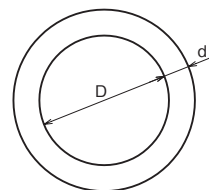
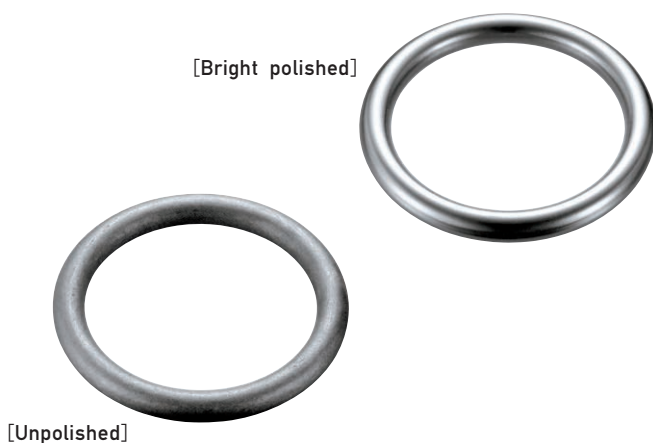
The friction on the ropes can be reduced by using a Purse Coupling for connection rather than directly attaching a rope to the Snap Hook.



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	H (mm)	D (mm)	Unit weight (g)	Working load limit (t)	List price
AK18153	11	φ13.5	111	84	66	19	φ30	420	1.86	\$67.30

* Material: Special stainless steel, Pin = SUS316, Sleeve = SUS316, Spring = SUS304

Round Ring, Casted (Bright / Unpolished)



[Bright polished]

No.	Size	d (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7031B	10	10	60	138	200	\$15.37
AK7032B	12	12	80	261	300	\$33.32
AK7033B	13	13	100	377	500	\$46.66
AK7034B	16	16	60	374	800	\$63.61
AK7035B	16L	16	150	838	400	\$83.57

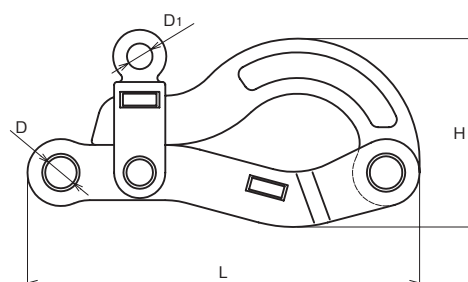
[Unpolished]

No.	Size	d (mm)	D (mm)	Unit weight (g)	Working load limit (kg)	List price
AK7031	10	10	60	138	200	\$14.77
AK7032	12	12	80	261	300	\$31.92
AK7033	13	13	100	377	500	\$44.66
AK7034	16	16	60	374	800	\$60.61
AK7035	16L	16	150	838	400	\$79.57

* There are two types of rings: bright polished and unpolished.

* Material: SCS14 (equivalent to SUS316)

Dragnet Fitting



No.	Size	L (mm)	H (mm)	D (mm)	D ₁ (mm)	Unit weight (g)	Working load limit (kg)	List price
AK4400	S	200	93	16	13	1,500	1,200	\$337.50
AK4401	M	250	111	19	16	2,600	1,700	\$568.00
AK4402	L	300	134	23	20	5,000	2,400	\$926.00

* Material: Special stainless steel

* There are separately-sold springs. Please ask us for details.

Harpoon Head (Morippa & Chokkiri)



Chokkiri
AK6400



P.chokkiri
AK6401



S.morippa
AK6402



Morippa
AK6403



Toku-morippa
AK6404



Shark-morippa
AK6405



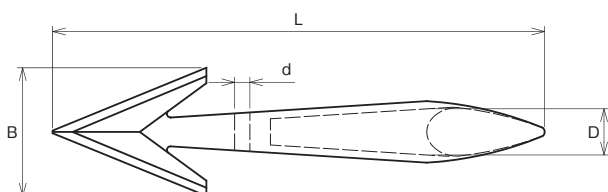
Minimorippa L
AK6407



Minimorippa M
AK6408



Minimorippa S
AK6409

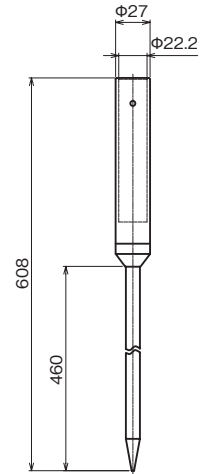


Type	No.	L (mm)	B (mm)	d (mm)	D (mm)	Unit weight (g)	List price
Chokkiri	AK6400	93	27	3	9	23	\$8.65
P.chokkiri	AK6401	96	25	3	9	18	\$6.57
S.morippa	AK6402	90	22	3	8	23	\$7.25
Morippa	AK6403	100	32	3	10	28	\$11.32
Toku-morippa	AK6404	104	36	3	9	30	\$12.35
Shark-morippa	AK6405	167	54	6	14	212	\$78.18
Minimorippa L	AK6407	68	17	2	7	11	\$8.47
Minimorippa M	AK6408	57	13	1.4	5	6	\$8.09
Minimorippa S	AK6409	47	11	1.4	4.6	5	\$7.58

*Material: Special stainless steel

*Note: The point and/or edges are sharpened. Handle with caution.

Spear Head

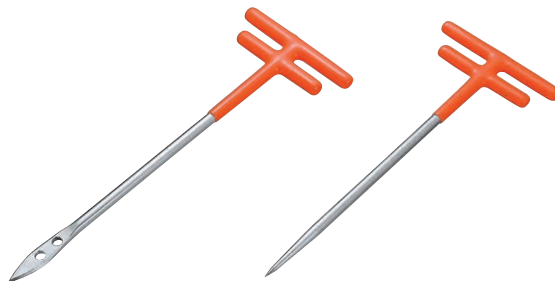


No.	Product name	Unit weight (g)	List price
AK3110	Spear head	480	\$64.20

* Material: SUS304

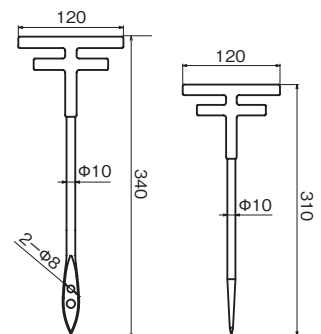
* Note: The point and/or edges are sharpened. Handle with caution.

Sewing Needle / Maguro Spike



Sewing Needle
with Two-Holes

Maguro Spike

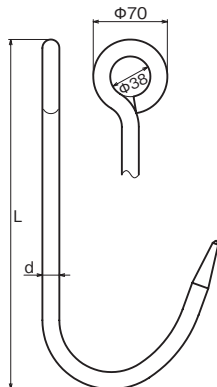


Product name	No.	Unit weight (g)	Number of holes	List price
Sewing needle	AK4270	300	Two-holes	\$44.50
Maguro spike	AK6060	300	—	\$34.20

* Material: SUS304

* Note: The point and/or edges are sharpened. Handle with caution.

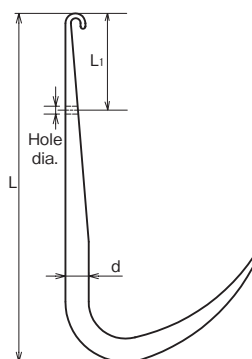
Gaff



No.	Size	d (mm)	L (mm)	Unit weight (g)	List price
AK6300	S	16	330	1,040	\$96.60
AK6301	M	16	450	1,200	\$102.50
AK6302	L	16	550	1,400	\$110.50

* Material: SUS304

Gaff Head

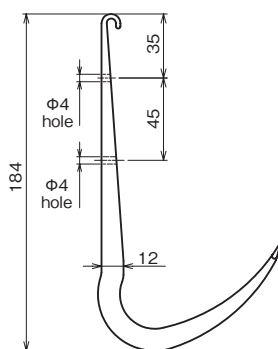


No.	Size	d (mm)	L (mm)	L ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK4120	6	6	137	30	3.5	45	\$9.18
AK4121	7	7	145	32	3.5	60	\$10.10
AK4122	8	8	155	36	4	80	\$11.70
AK4123	9	9	165	47	4	100	\$12.80
AK4124	10	10	170	50	4	130	\$17.45
AK4125	12	12	180	50	4	200	\$23.00

* Material: Special stainless steel

* Note: The point and/or edges are sharpened. Handle with caution.

Gaff Head Type II



No.	Size	Unit weight (g)	List price
AK4135	12	190	\$22.85

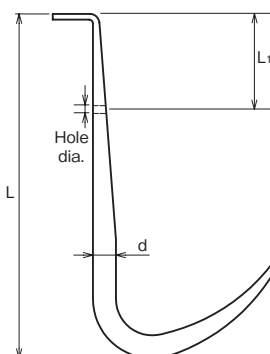
● The tip is thicker and stronger than the Gaff Head above.

● The back of the stem is curved, and fits stably with the rod.

* Material: Special stainless steel

* Note: The point and/or edges are sharpened. Handle with caution.

Owase Gaff Head

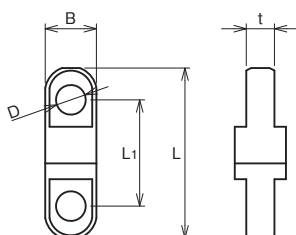


No.	Size	d (mm)	L (mm)	L ₁ (mm)	Hole dia. (mm)	Unit weight (g)	List price
AK3400	6	6	160	60	4	45	\$11.68
AK3401	7	7	170	60	4	60	\$13.30
AK3402	8	8	180	65	4	80	\$14.50
AK3403	9	9	190	75	4	100	\$17.60
AK3404	10	10	200	80	4	130	\$19.75
AK3405	12	12	205	80	4	200	\$24.70

* Material: SUS304

* Note: The point and/or edges are sharpened. Handle with caution.

Heavy Swivel

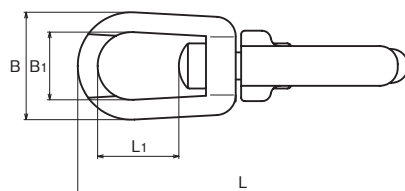


No.	Size	L (mm)	L ₁ (mm)	B (mm)	D (mm)	t (mm)	Unit weight (g)	Working load limit (kg)	List price
AK2361	7	23.5	14	7	3.5	4	4	80	\$2.86
AK2363	9	31.5	19.5	9	5	5	9	130	\$3.54
AK2364	10.5	35.5	21.5	10.5	6	6	13	150	\$4.40

* Material: SUS303

* Do not use under conditions of constant rotation.

Maguro Sarukan Swivel

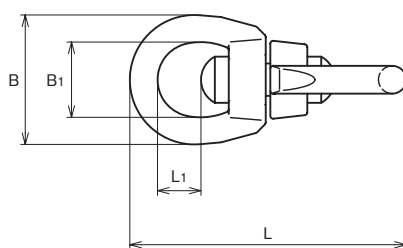


No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK2240	3S	29	5	12.5	7	5	\$2.28
AK2241	2S	39.5	9	14.5	8	8	\$2.72

* Material: SCS14 (equivalent to SUS316), Pin = SUS316

* Do not use under conditions of constant rotation.

Maguro Sarukan Swivel Type F

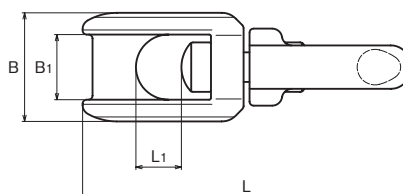


No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK2250	4S	28	4.5	11	4.7	6	\$2.89
AK2251	3S	30	4.5	14.5	8	8	\$3.12
AK2252	2S	35	7	15.5	9	9	\$3.24

* Material: SCS14 (equivalent to SUS316), Pin = SUS316

* Do not use under conditions of constant rotation.

Maguro Sarukan Swivel

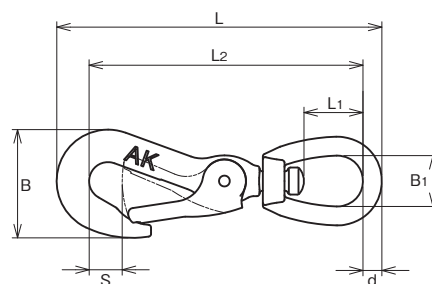


No.	Size	L (mm)	L ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK2247	3S	33.2	4.6	11	6.6	8	\$2.62
AK2248	2S	39.2	7	14	9	12	\$2.88

* Material: SCS14 (equivalent to SUS316), Pin = SUS316

* Do not use under conditions of constant rotation.

Tuna Swivel Snap

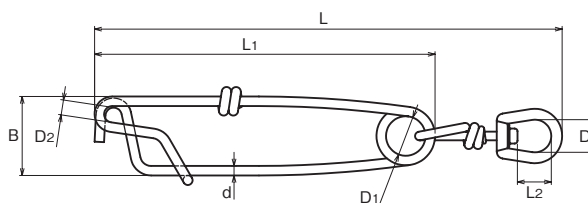


No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	S (mm)	Unit weight (g)	Working load limit (kg)	List price
AK12450	T0	3.5	60	11	51	20	9	6	17	40	\$5.96
AK12451	T1	4.5	69	11	57	26	12	5	32	60	\$7.78

* Material: Main body = special stainless steel, Swivel = SCS13 (equivalent to SUS304)

* Do not use under conditions of constant rotation.

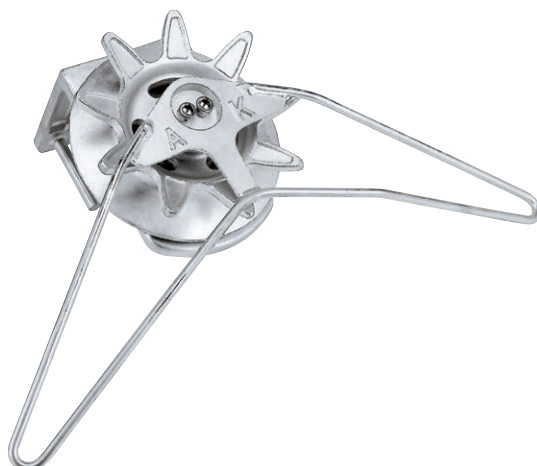
Branch Hanger



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	D (mm)	D ₁ (mm)	D ₂ (mm)	Unit weight (g)	Remark	List price
AK6021	2	2	—	85	—	21	—	7.5	2	8	Without swivel	\$1.42
AK6022	2.6	2.6	—	100	—	23	—	9	2	18	Without swivel	\$1.87
AK6023	3.5	3.5	—	126	—	28	—	13.5	2	40	Without swivel	\$3.20
AK6030	2.6	2.6	135	100	9	22	10	9	2	25	With swivel	\$4.28
AK6031	3.5	3.5	172	124	9	29	10	14	2	54	With swivel	\$6.81

* Material: SUS304

Guide Roller



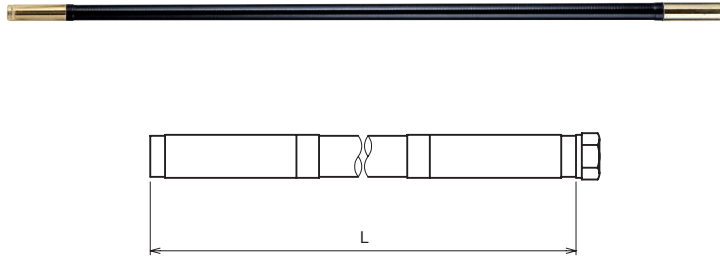
No.	Size	Roller dia. (mm)	List price
AK7775	M	254	\$1558.00
AK7776	L	300	\$2335.00

* Material: SCS13 (equivalent to SUS304)
Bolt/rod = SUS304

* Sales of this product will cease when it is no longer in stock.



Glassfiber Pole



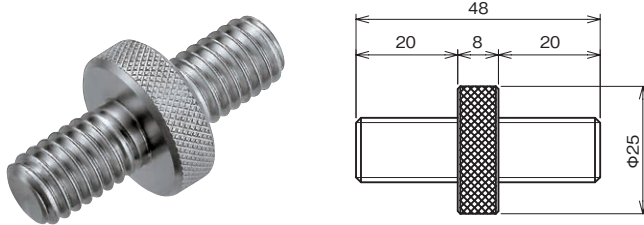
No.	Size (L) (mm)	Min. dia. (mm)	Max. dia. (mm)	Thread dia.	Unit weight (g)	Attachable sizes	List price
AK7801	900	20	24	W1/2	340	Attachable to all sizes	\$106.10
AK7802	1,200	20	24	W1/2	400		\$125.00
AK7803	1,800	24	27	W1/2	510	Attachable only to pole lengths of 900 mm and 1200 mm	\$135.65
AK7804	2,400	24	28	W1/2	650		\$160.75
AK7805	4,000	24	33	W1/2	1,065		\$317.98

* Material: FRP

* Poles of 1,800 mm and longer cannot be joined together.

Optional Attachments for Glassfiber Pole

Connecting Bolt



No.	Thread dia.	Unit weight (g)	List price
AK7808	W1/2	62	\$18.23

* Material: SUS304

Multi Purpose Sickle Head

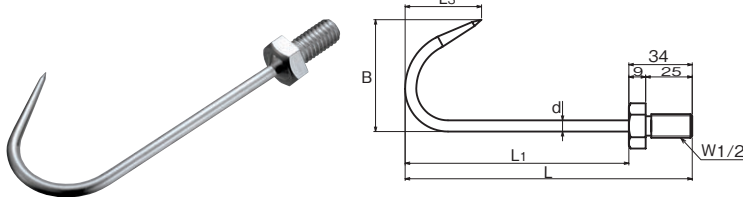


No.	Unit weight (g)	List price
AK7810	90	\$32.05

* Material: SUS304

* Caution: Sharp edges. Handle with care.

Gaff Head

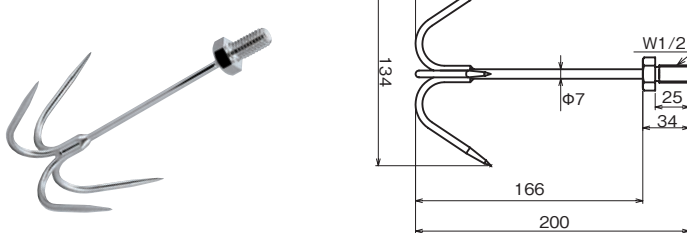


No.	Size	d (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK7825	6	6	120	149	41	60	W1/2	84	\$21.46
AK7826	9	9	158	192	49	95	W1/2	150	\$28.65

* Material: SUS304

* Note: The point and/or edges are sharpened. Handle with caution.

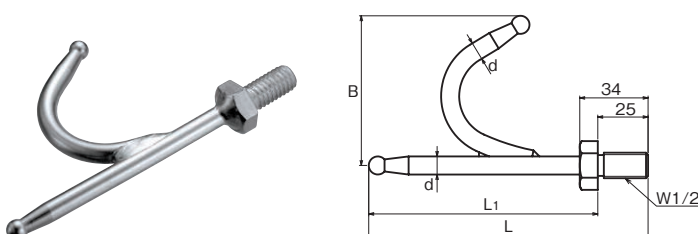
Hayasuke Gaff Head



No.	Size	Thread dia.	Unit weight (g)	List price
AK7809	7	W1/2	150	\$34.05

* Material: SUS304

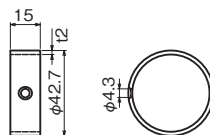
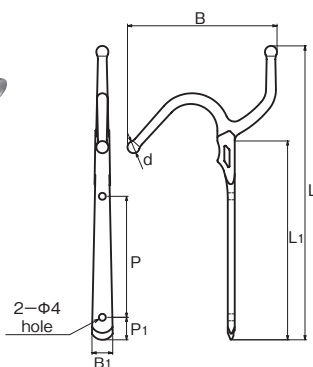
Boat Hook, Round Point



No.	Size	d (mm)	L (mm)	L ₁ (mm)	B (mm)	Thread dia.	Unit weight (g)	List price
AK7820	9	9	144	110	75	W1/2	150	\$33.55
AK7821	12	12	172	138	87	W1/2	270	\$42.55

* Material: SUS304

Boat Hook, Round Point

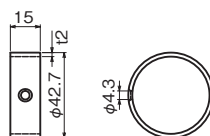
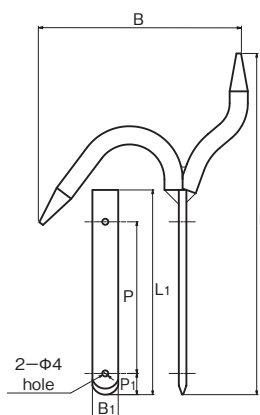


No.	Size	d (mm)	L (mm)	L ₁ (mm)	P (mm)	P ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK5910	7	7	170	121	70	13	87	12	72	\$19.88
AK5911	9	9	192	128	70	13	116	13	120	\$21.10
AK5912	12	12	231	146	80	14	143	17	262	\$33.33

* Material: Special stainless steel, Ring = SUS304

- The top ends are rounded and will not cause damage to the hull.
- The back of the stem is curved, and fits stably with the rod.

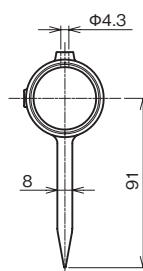
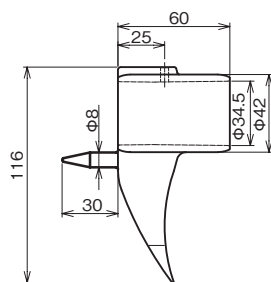
Boat Hook, Sharp Point



No.	Size	d (mm)	L (mm)	L ₁ (mm)	P (mm)	P ₁ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK5920	7	7	165	110	70	13	81	11	100	\$19.40
AK5921	9	9	190	110	70	13	111	11	150	\$20.65
AK5922	12	12	225	130	100	14	145	17	300	\$32.50

* Material: SUS304

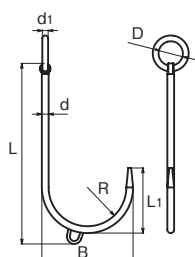
Kentobi Hook Head



No.	Unit weight (g)	List price
AK5915	300	\$30.50

* Material: Special stainless steel

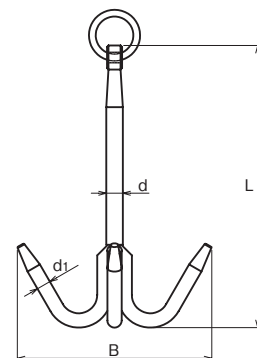
Mooring Hook



No.	Size	d (mm)	d ₁ (mm)	L (mm)	L ₁ (mm)	B (mm)	D (mm)	R (mm)	Unit weight (g)	List price
AK6310	12×R62.5	12	9	280	124.5	149	50	62.5	540	\$63.10
AK6311	12×R80	12	9	350	132	184	50	80	620	\$66.30
AK6312	14×R80	14	12	350	134	188	55	80	810	\$80.65
AK6313	16×R80	16	12	350	136	192	55	80	1,090	\$102.85
AK6314	19×R80	19	12	350	139	198	55	80	1,380	\$126.70

* Material: SUS304

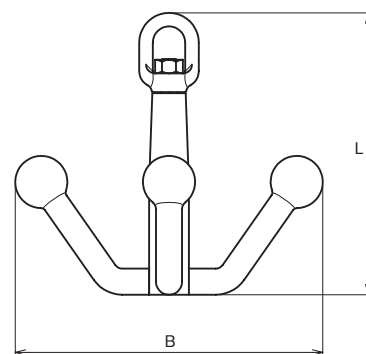
Subaru Hook Anchor



No.	Size	d (mm)	d ₁ (mm)	L (mm)	B (mm)	Unit weight (kg)	List price
AK4220	S	12	9	200	140	0.35	\$38.65
AK4221	M	16	12	240	190	0.90	\$66.50
AK4222	L	19	16	315	220	1.80	\$176.00
AK4223	LL	22	19	375	250	3.00	\$254.00

* Material: SUS304

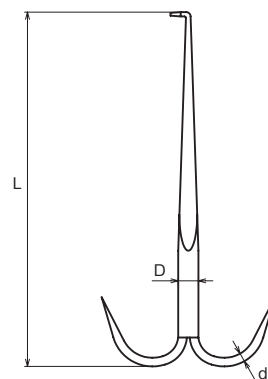
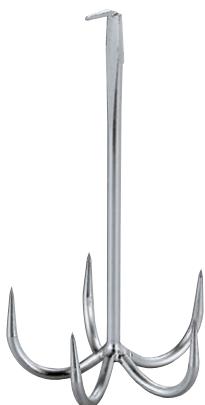
Hotate Subaru Hook Round Point



No.	Size	L (mm)	B (mm)	Unit weight (kg)	List price
AK5594	M	230	260	3.54	\$353.10
AK5595	L	270	280	5.52	\$562.80

* Material: Main body = SUS304, Hook/swivel = SCS13
 * Do not use in parts subject to constant rotation.

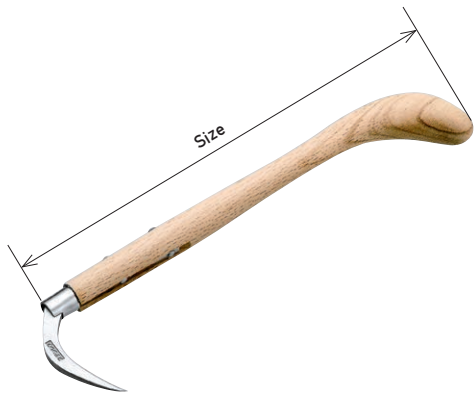
Hayasuke Gaff Head



No.	Size	d (mm)	L (mm)	D (mm)	Unit weight (g)	List price
AK4225	S	5	165	6	80	\$46.20
AK4226	L	6	250	14	255	\$58.83

* Material: SUS304

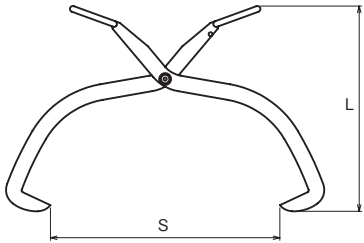
Tekagi Hook



No.	Size (cm)	Unit weight (g)	List price
AK4829	27	160	\$31.30
AK4830	30	180	\$32.10
AK4831	33	175	\$33.83
AK4832	36	185	\$34.58
AK4833	39	195	\$36.03
AK4834	42	215	\$40.63
AK4835	45	220	\$47.20
AK4836	60	280	\$74.20
AK4837	75	350	\$93.25
AK4838	90	380	\$114.70

●Karatsu hook
* Material: Stainless
* Note: The point and/or edges are sharpened. Handle with caution.

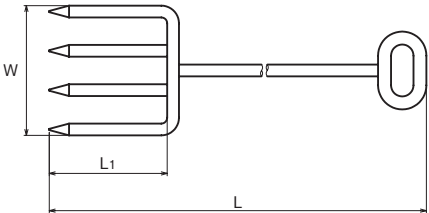
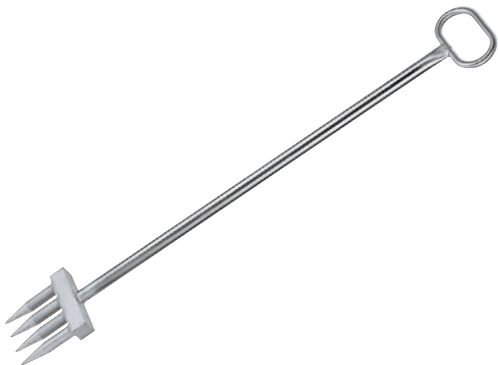
Ice Hook



No.	Size	L (mm)	S (mm)	Unit weight (g)	List price
AK3900	L	400	450	1,850	\$282.75
AK3901	S	310	350	1,350	\$222.25

* Material: SUS304
* The dimensions shown are when the hook is in the open state.

Ice Crusher



No.	Size	W (mm)	L (mm)	L ₁ (mm)	Unit weight (g)	List price
AK3910	S	130	750	130	2,000	\$273.00
AK3911	M	130	900	130	2,250	\$294.75
AK3913	LL	220	900	200	4,800	\$469.00

* Material: SUS304

Block



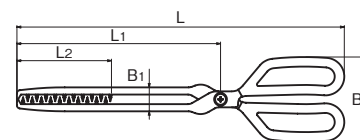
Ship Equipment



Wire Rope



Conger Nipper with Spikes



No.	Size	L (mm)	L ₁ (mm)	L ₂ (mm)	B (mm)	B ₁ (mm)	Unit weight (g)	List price
AK7697	400	410	255	120	106	30	600	\$128.00

* Material: SUS304

Multi Purpose Scissors



Round Point

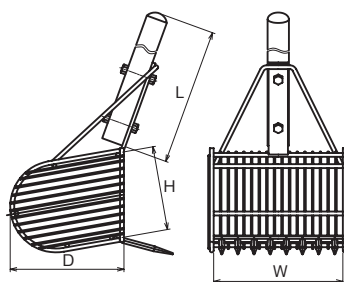


Sharp Point

No.	Type	Unit weight (g)	List price
AK7724	Round Point	129	\$28.54
AK7725	Sharp Point	126	\$28.49

* Material: Stainless steel,
Grip = resin

Seabed Scoop for Clam Gathering



Steel	Size	W (mm)	L (mm)	H (mm)	D (mm)	List price
AK3562	M	200	1,500	130	170	\$99.45

* Sales of this product will cease when it is no longer in stock.

Bucket



Well bucket



Standard bucket

No.	Type	Size	Unit weight (g)	List price
AK4710	Well bucket	6L	700	\$53.10
AK4711	Standard bucket	8L	780	\$60.70
AK4712	Standard bucket	13L	1,020	\$91.30
AK4713	Standard bucket	15L	1,160	\$100.90
AK4714	Standard bucket	18L	1,235	\$105.53

* Material: SUS304

Stainless Steel Wire

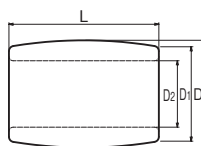


No.	Size (mm)	Length (m)	List price
AK3920	#14(2.0)	10	\$20.34
AK3921	#16(1.6)	10	\$14.94
AK3926	#22(0.7)	10	\$6.52

* Material: SUS304

* Sales of this product will cease when it is no longer in stock.

Weight



No.	Size (g)	L (mm)	D (mm)	D ₁ (mm)	D ₂ (mm)	Unit weight (g)	List price
AK6500	112.5	32	30	24	14	113	\$8.90
AK6502	187.5	50	32	23.6	15	188	\$12.62
AK6525	375.0	57	42	31.6	20	375	\$24.63
AK6534	750.0	68	55	36	24	750	\$58.15

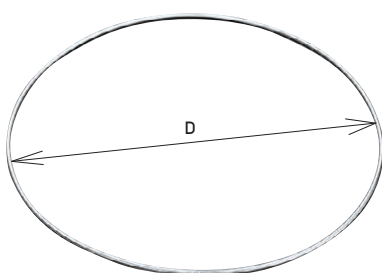
No.	Size (g)	L (mm)	D (mm)	D ₁ (mm)	D ₂ (mm)	Unit weight (g)	List price
AK6535	750.0	75	55	45.8	32	750	\$58.15
AK6536	750.0	70	60	50	38	750	\$58.15
AK6543	1125.0	87	60	49	32	1,125	\$75.38
AK6545	1125.0	88	63	55.4	39	1,125	\$75.38

* Material: Special stainless steel

* This product is made to order. Please consult about the delivery date in advance.

* Sales of articles marked with © will cease when it is no longer in stock.

Ring for Scoop Net



Wire dia.(φ) D Size (mm)	4 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)
300	AK7200	AK7201	AK7202	AK7203	AK7204	
350	AK7205	AK7206	AK7207	AK7208	AK7209	
400	AK7210	AK7211	AK7212	AK7213	AK7214	AK7215
450	AK7216	AK7217	AK7218	AK7219	AK7220	AK7221
500	AK7222	AK7223	AK7224	AK7225	AK7226	AK7227
600	AK7228	AK7229	AK7230	AK7231	AK7232	AK7233
700	AK7234	AK7235	AK7236	AK7237	AK7238	AK7239
800	AK7240	AK7241	AK7242	AK7243	AK7244	AK7245
900	AK7246	AK7247	AK7248	AK7249	AK7250	AK7251
1000	AK7252	AK7253	AK7254	AK7255	AK7256	AK7257
1100			AK7258	AK7259	AK7260	AK7261
1200			AK7262	AK7263	AK7264	AK7265

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

* Please ask us about the price.

Block

Rigging Hardware

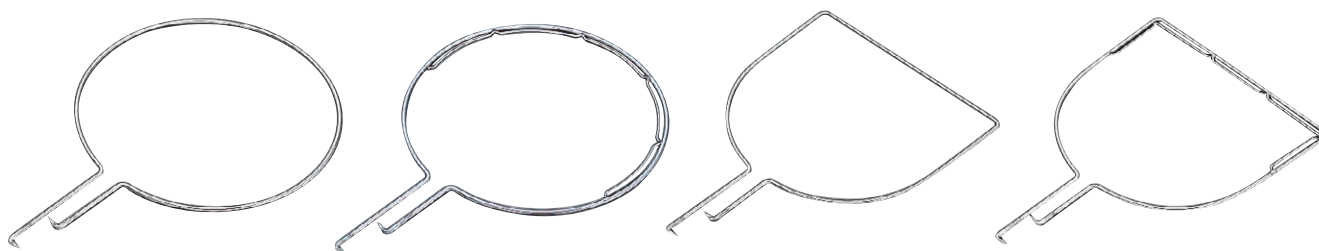
Ship Equipment

Fishing Gear

Wire Rope



Frame for Scoop Net, Standard-type



Round

Round, double frame

Triangle

Triangle, double frame

Wire dia.(φ) Size (mm)	Round						Round, double frame					
	4 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)	4 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)
180	AK8100	AK8101	AK8102				AK8200	AK8201	AK8202			
210	AK8103	AK8104	AK8105				AK8203	AK8204	AK8205			
240	AK8106	AK8107	AK8108				AK8206	AK8207	AK8208			
270	AK8109	AK8110	AK8111	AK8112			AK8209	AK8210	AK8211	AK8212		
300	AK8113	AK8114	AK8115	AK8116	AK8117			AK8213	AK8214	AK8215	AK8216	
330	AK8118	AK8119	AK8120	AK8121	AK8122			AK8217	AK8218	AK8219	AK8220	
360		AK8123	AK8124	AK8125	AK8126			AK8221	AK8222	AK8223	AK8224	
390		AK8127	AK8128	AK8129	AK8130			AK8225	AK8226	AK8227	AK8228	
420		AK8131	AK8132	AK8133	AK8134	AK8135		AK8229	AK8230	AK8231	AK8232	AK8233
450		AK8136	AK8137	AK8138	AK8139	AK8140		AK8234	AK8235	AK8236	AK8237	AK8238
480		AK8141	AK8142	AK8143	AK8144	AK8145		AK8239	AK8240	AK8241	AK8242	AK8243
510		AK8146	AK8147	AK8148	AK8149	AK8150		AK8244	AK8245	AK8246	AK8247	AK8248
540		AK8151	AK8152	AK8153	AK8154	AK8155		AK8249	AK8250	AK8251	AK8252	AK8253
600		AK8156	AK8157	AK8158	AK8159	AK8160		AK8254	AK8255	AK8256	AK8257	AK8258

Wire dia.(φ) Size (mm)	Triangle						Triangle, double frame					
	4 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)	4 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)
180	AK8300	AK8301	AK8302				AK8400	AK8401	AK8402			
210	AK8303	AK8304	AK8305				AK8403	AK8404	AK8405			
240	AK8306	AK8307	AK8308				AK8406	AK8407	AK8408			
270	AK8309	AK8310	AK8311	AK8312			AK8409	AK8410	AK8411	AK8412		
300	AK8313	AK8314	AK8315	AK8316	AK8317			AK8413	AK8414	AK8415	AK8416	
330	AK8318	AK8319	AK8320	AK8321	AK8322			AK8417	AK8418	AK8419	AK8420	
360		AK8323	AK8324	AK8325	AK8326			AK8421	AK8422	AK8423	AK8424	
390		AK8327	AK8328	AK8329	AK8330			AK8425	AK8426	AK8427	AK8428	
420		AK8331	AK8332	AK8333	AK8334	AK8335		AK8429	AK8430	AK8431	AK8432	AK8433
450		AK8336	AK8337	AK8338	AK8339	AK8340		AK8434	AK8435	AK8436	AK8437	AK8438
480		AK8341	AK8342	AK8343	AK8344	AK8345		AK8439	AK8440	AK8441	AK8442	AK8443
510		AK8346	AK8347	AK8348	AK8349	AK8350		AK8444	AK8445	AK8446	AK8447	AK8448
540		AK8351	AK8352	AK8353	AK8354	AK8355		AK8449	AK8450	AK8451	AK8452	AK8453
600		AK8356	AK8357	AK8358	AK8359	AK8360		AK8454	AK8455	AK8456	AK8457	AK8458

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

* Please ask us about the price.

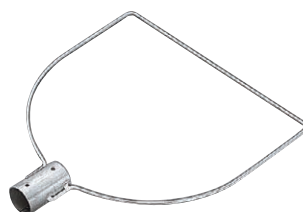
Frame for Scoop Net Type SP



Round



Round, full double frame



Triangle



Triangle, full double frame

Pipe standard table

○Nominal pipe dia.	Size (mm)	Internal diameter (mm)
32A	42.7	38.7
40A	48.6	44.6

Size (mm)	Wire dia.(φ) Nominal pipe dia.	Round					Round, full double frame				
		5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)
300	32A	AK8500	AK8501	AK8502	AK8503		AK8600	AK8601	AK8602	AK8603	
330	32A	AK8504	AK8505	AK8506	AK8507		AK8604	AK8605	AK8606	AK8607	
360	32A	AK8508	AK8509	AK8510	AK8511		AK8608	AK8609	AK8610	AK8611	
390	32A	AK8512	AK8513	AK8514	AK8515		AK8612	AK8613	AK8614	AK8615	
420	32A		AK8516	AK8517	AK8518	AK8519		AK8616	AK8617	AK8618	AK8619
450	32A		AK8520	AK8521	AK8522	AK8523		AK8620	AK8621	AK8622	AK8623
360	40A	AK8524	AK8525	AK8526	AK8527		AK8624	AK8625	AK8626	AK8627	
390	40A	AK8528	AK8529	AK8530	AK8531	AK8532	AK8628	AK8629	AK8630	AK8631	AK8632
420	40A		AK8533	AK8534	AK8535	AK8536		AK8633	AK8634	AK8635	AK8636
450	40A		AK8537	AK8538	AK8539	AK8540		AK8637	AK8638	AK8639	AK8640
480	40A		AK8541	AK8542	AK8543	AK8544		AK8641	AK8642	AK8643	AK8644
510	40A		AK8545	AK8546	AK8547	AK8548		AK8645	AK8646	AK8647	AK8648
540	40A		AK8549	AK8550	AK8551	AK8552		AK8649	AK8650	AK8651	AK8652
600	40A		AK8553	AK8554	AK8555	AK8556		AK8653	AK8654	AK8655	AK8656

Pipe standard table

○Nominal pipe dia.	Size (mm)	Internal diameter (mm)
32A	42.7	38.7
40A	48.6	44.6

Size (mm)	Wire dia.(φ) Nominal pipe dia.	Triangle					Triangle, full double frame				
		5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)	5 (mm)	6 (mm)	7 (mm)	8 (mm)	9 (mm)
300	32A	AK8700	AK8701	AK8702	AK8703		AK8800	AK8801	AK8802	AK8803	
330	32A	AK8704	AK8705	AK8706	AK8707		AK8804	AK8805	AK8806	AK8807	
360	32A	AK8708	AK8709	AK8710	AK8711		AK8808	AK8809	AK8810	AK8811	
390	32A	AK8712	AK8713	AK8714	AK8715		AK8812	AK8813	AK8814	AK8815	
420	32A		AK8716	AK8717	AK8718	AK8719		AK8816	AK8817	AK8818	AK8819
450	32A		AK8720	AK8721	AK8722	AK8723		AK8820	AK8821	AK8822	AK8823
360	40A	AK8724	AK8725	AK8726	AK8727		AK8824	AK8825	AK8826	AK8827	
390	40A	AK8728	AK8729	AK8730	AK8731	AK8732	AK8828	AK8829	AK8830	AK8831	AK8832
420	40A		AK8733	AK8734	AK8735	AK8736		AK8833	AK8834	AK8835	AK8836
450	40A		AK8737	AK8738	AK8739	AK8740		AK8837	AK8838	AK8839	AK8840
480	40A		AK8741	AK8742	AK8743	AK8744		AK8841	AK8842	AK8843	AK8844
510	40A		AK8745	AK8746	AK8747	AK8748		AK8845	AK8846	AK8847	AK8848
540	40A		AK8749	AK8750	AK8751	AK8752		AK8849	AK8850	AK8851	AK8852
600	40A		AK8753	AK8754	AK8755	AK8756		AK8853	AK8854	AK8855	AK8856

* Material: SUS304

* This product is made to order in quantities of 5 pcs or more. Custom orders are also available.

* Please ask us about the price.

Wire Rope

Luster and durability
unique to stainless steel.
The possibilities are infinite.

Stainless wire ropes have a beautiful luster and excellent water and corrosion resistance. The wire requires high safety standards for its use in the suspension, support, and tensioning of objects indoors and outdoors. Keeping this in mind, ASANO ensures products have passed strict quality tests, such as for strength, evenness, and burrs. The stainless steel wire rope is an attractive material, with strength and beauty that undoubtedly expands its usage than ever before.



Block

Rigging Hardware

Ship Equipment

Fishing Gear

Wire Rope





Stainless Steel Wire Rope

Stainless steel wire rope has excellent corrosion resistance and beautiful luster, and is used in various fields.

We offer a lineup of 1,000m, 200m, 100m, and 20m wire ropes. We can also cut your desired length.

Please feel free to contact us.

* Delivery may take longer, depending on quantity and length desired.



Wire rope cutting machine

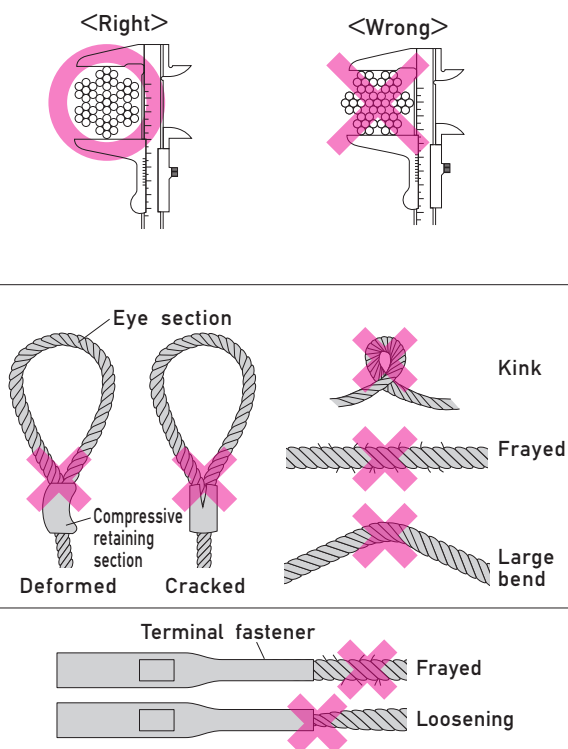
How to measure the diameter of wire rope

Measure the diameter of the wire rope on the circumscribed circle at more than two places, except within 1.5 m from the rope ends. The diameter is calculated by their average value.

⚠ Caution

When the wire rope is twisted or bent, correct the position to avoid kinks.

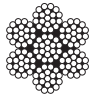
Do not use ropes with cracks, deformations, gapes, or serious damage to the eye sections and compressive retaining sections. This may cause breakage due to weakened strength.



If any wire fraying or loosening at the terminal fastener is observed, stop use immediately and replace with a new one.

Stainless Wire Rope

Consists of Strands: 7 × 19



Its short strand diameter makes the wire rope soft, making it suitable for wire rope clips.

Size (wire dia.) (mm)	SUS304				SUS316		
	No.	Weight per meter (g)	Breaking load (kg)	List price per 200 m	No.	Breaking load (kg)	List price per 200 m
2	AK9153	16.8	281	\$264.40	—	—	—
2.5	AK9154	26.3	436	\$304.90	—	—	—
3	AK9155	37.8	626	\$385.40	AK9255	565	\$543.40
3.5	AK9156	52.8	836	\$488.40	—	—	—
4	AK9157	67.1	1,092	\$583.30	AK9257	970	\$1049.30
5	AK9158	105	1,704	\$835.00	AK9258	1,520	\$1345.00
6	AK9159	152	2,459	\$1076.00	AK9259	2,194	\$1616.00
7	AK9160	200	3,347	\$1776.00	—	—	—
8	AK9161	268	4,367	\$1992.00	AK9261	3,898	\$2760.00
9	AK9162	339	5,531	\$2493.00	—	—	—
10	AK9163	420	6,827	\$3048.00	—	—	—
12	AK9164	603	9,837	\$4231.00	—	—	—
14	AK9165	791	13,673	\$5833.00	—	—	—
16	AK9166	991	16,938	\$7493.00	—	—	—
18	AK9167	1,330	21,428	\$9090.00	—	—	—
20	AK9168	1,710	26,428	\$13830.00	—	—	—

* Articles marked with © are on back order.

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Stainless Wire Rope

Consists of Strands: 7 × 7



This is harder than 7 x 19 wire rope. It is suited for straight line use, and can be used for a variety of purposes together with terminal fittings.

Size (wire dia.) (mm)	SUS304				SUS316		
	No.	Weight per meter (g)	Breaking load (kg)	List price per 200 m	No.	Breaking load (kg)	List price per 200 m
0.54	AK9105	1.2	23	\$165.60	—	—	—
0.62	AK9106	1.6	31	\$146.80	—	—	—
0.72	AK9107	2.1	43	\$142.30	—	—	—
0.81	AK9108	2.6	54	\$135.80	—	—	—
0.92	AK9109	3.2	66	\$133.60	—	—	—
1	AK9110	4.2	71	\$88.60	—	—	—
1.2	AK9111	6.1	83	\$106.30	—	—	—
1.5	AK9112	9.3	170	\$121.90	—	—	—
2	AK9113	16.8	290	\$162.40	—	—	—
2.5	AK9114	26.4	460	\$229.20	—	—	—
3	AK9115	37.9	660	\$303.70	AK9215	586	\$465.70
3.5	AK9116	53.3	901	\$437.90	—	—	—
4	AK9117	67.3	1,143	\$503.90	AK9217	1,041	\$737.90
5	AK9118	105	1,796	\$751.00	AK9218	1,622	\$1137.00
6	AK9119	151	2,571	\$1077.00	AK9219	2,327	\$1601.00
7	AK9120	200	3,500	\$1750.00	—	—	—
8	AK9121	266	4,571	\$2128.00	AK9221	4,133	\$2884.00

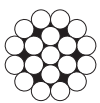
* Articles marked with © are on back order. They are only sold in units of 200 m.

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Stainless Wire Rope

Consists of Strands: 1 × 19



Its thick strand makes the wire rope strong. It is suited for ASANO handrails with wires.

Size (wire dia.) (mm)	SUS316			
	No.	Breaking load (kg)	Weight per meter (g)	List price per 200 m
3	AK9275	746	46.1	\$748.30
4	AK9277	1,245	81.9	\$1249.70
5	AK9278	1,816	129	\$1795.00
6	AK9279	2,602	185	\$2511.00
8	AK9281	4,602	328	\$4504.00

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.



Coated Stainless Wire Rope (Transparent)

Consists of Strands: 7 × 19



No.	Size (wire dia.) (mm)	Coating diameter	Weight per meter (g)	Breaking load (kg)	List price per 200 m
AK9173	3	5	56	626	\$554.00
AK9174	4	6	90	1,092	\$798.00
AK9175	5	7	131	1,704	\$1095.00
AK9176	6	8	180	2,459	\$1428.00

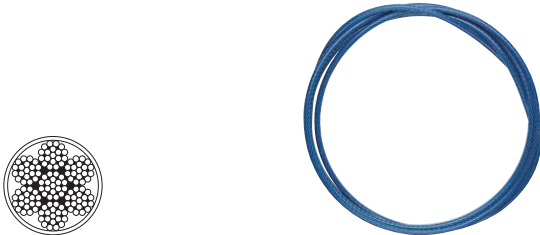
* Material: SUS304

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Coated Stainless Wire Rope (Transparent Blue)

Consists of Strands: 7 × 19



No.	Size (wire dia.) (mm)	Coating diameter	Weight per meter (g)	Breaking load (kg)	List price per 200 m
AK9173B	3	5	56	626	\$554.00
AK9174B	4	6	90	1,092	\$798.00
AK9175B	5	7	131	1,704	\$1095.00
AK9176B	6	8	180	2,459	\$1428.00

* Material: SUS304

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Stainless Wire Rope

Consists of Strands: 6 × 24



No.	Size (wire dia.) (mm)	Weight per meter (g)	Breaking load (kg)	List price per 200 m
AK9181	6	121	1,908	\$1107.00
AK9183	8	210	3,418	\$1736.00
AK9184	9	271	4,418	\$2343.00

* Material: SUS304

* For different sizes, lengths, and prices, please ask us.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Stainless Wire Rope

Consists of Strands: 6 × 37



No.	Size (wire dia.) (mm)	Weight per meter (g)	Breaking load (kg)	List price per 200 m
AK9191	6	129	2,183	\$1427.00
AK9193	8	235	4,071	\$2323.00
AK9194	9	297	4,898	\$2979.00

* Material: SUS304

* For different sizes, lengths, and prices, please ask us.

* This product is on back order.

* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

Stainless Wire Rope 20m



Consists of strands: 7 × 19

Size (wire dia.) (mm)	No.	SUS304 Breaking load (kg)	List price
2	AK9153-20	281	\$33.24
3	AK9155-20	626	\$46.34
4	AK9157-20	1,092	\$67.93
5	AK9158-20	1,704	\$96.50

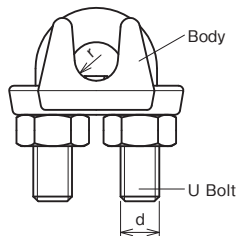
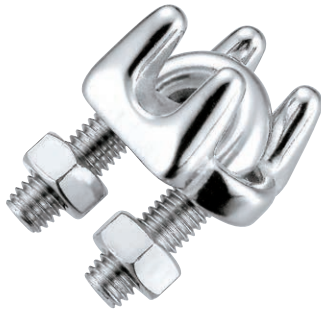
* In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

* Sales of this product will cease when it is no longer in stock.

Consists of strands: 7 × 7

Size (wire dia.) (mm)	No.	SUS304 Breaking load (kg)	List price
1	AK9110-20	71	\$12.56
1.5	AK9112-20	170	\$16.59
2	AK9113-20	290	\$20.74
3	AK9115-20	660	\$36.27
4	AK9117-20	1,143	\$57.89
5	AK9118-20	1,796	\$86.00

Wire Rope Clip



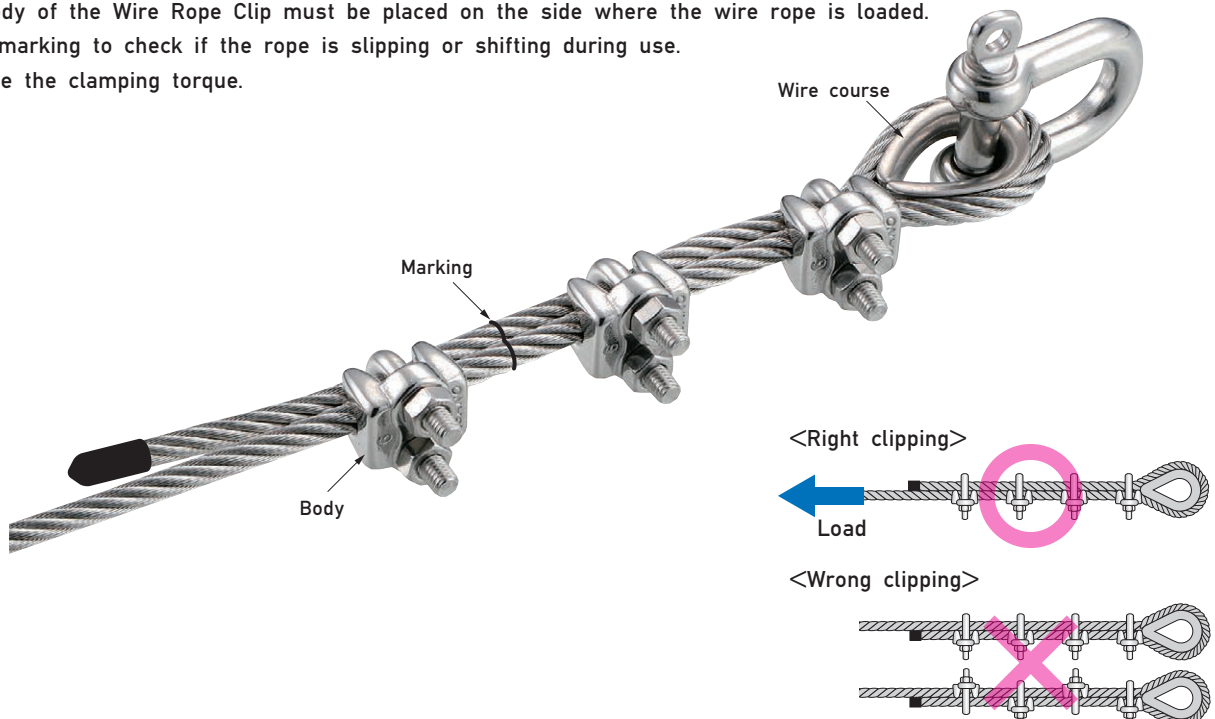
SUS316 No.	List price	SUS304 No.	List price	Size (wire dia.) (mm)	r (mm)	d (mm)	Clamping torque (N·m)	Quantity (pcs.)	Space (cm)	Unit weight (g)
AK15200	\$2.36	—	—	1.5	0.8	M2	—	3	5	4
AK15201	\$2.65	AK15901	\$1.95	2	1.3	M3	—	3	5	10
AK15202	\$2.78	AK15902	\$2.08	3	1.8	M3	1.3	3	5	12
AK15203	\$3.10	AK15903	\$2.30	4	2.3	M4	2.2	3	5	20
AK15204	\$3.58	AK15904	\$2.68	5	3.0	M5	3.0	3	5	25
AK15205	\$3.90	AK15905	\$3.30	6	3.5	M6	4.4	3	5	40
AK15206	\$6.63	AK15906	\$5.03	8	4.5	M8	10	4	5	75
AK15207	\$8.70	—	—	9	5.0	M8	10	4	6	100
—	—	AK15907	\$8.53	9	5.0	M10	16	4	7	135
AK15208	\$11.40	AK15908	\$9.50	10	5.5	M10	16	4	7	160
AK15209	\$14.22	AK15909	\$13.22	12	6.5	M12	20	4	8	248
AK15210	\$24.28	AK15910	\$17.78	14	7.5	M12	30	4	9	285
AK15211	\$32.59	AK15911	\$25.39	16	8.5	M14	45	4	10	426
AK15212	\$42.50	—	—	18	9.5	M14	45	5	12	500
AK15213	\$72.50	—	—	20-22	12.0	M18	80	5	13	900
AK15214	\$124.30	—	—	24-25	13.5	M20	100	5	16	1,220
AK15215	\$162.45	—	—	26-28	15.0	M22	120	5	17	1,630
AK15216	\$199.43	—	—	30-32	17.0	M22	150	6	20	1,895

* Material: Main body is SCS14 for SUS316, and SCS13 for SUS304.

* The holding power of the Wire Rope Clip is 80% of the breaking load of the wire rope when fastened correctly as shown below. In practical use, please use wire ropes within safety tolerances, taking into consideration breakage load limits.

How to use Wire Rope Clip

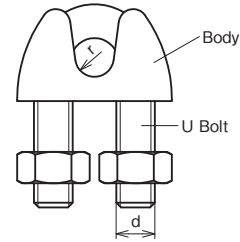
- The gaps between clips and the length of wire rope at the end of the clip should be at least six times longer than the rope diameter.
- Tighten the nuts before and after loading.
- Use a wire course whenever possible.
- The body of the Wire Rope Clip must be placed on the side where the wire rope is loaded.
- Put a marking to check if the rope is slipping or shifting during use.
- Observe the clamping torque.



Wire Rope Clip (Pressed Plate Body)



[Usage example]



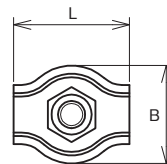
No.	Size (wire dia.) (mm)	r (mm)	d (mm)	Clamping torque (N·m)	Quantity (pcs.)	Space (cm)	Unit weight (g)	List price
AK7440	4	2	M4	2.2	3	5	8	\$1.22
AK7441	5	2.5	M5	3.0	3	5	15	\$1.63
AK7442	6	3	M6	4.4	3	5	25	\$2.28
AK7443	8	4	M8	10	4	5	52	\$3.58

* Material: SUS304

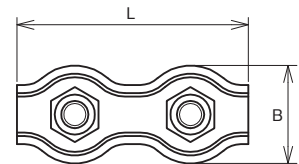
Wire Rope Clip (Single) / (Double)



[Usage example]



Single



Double

Type	No.	Dia. of used wire (mm)	Size (mm)	L (mm)	B (mm)	Unit weight (g)	List price
Single	AK7410	1.5	2	15	11	4	\$1.06
	AK7411	2	3	17	14	5	\$1.18
	AK7412	3	4	20	17.5	10	\$1.55
Double	AK7420	1.5	2	30	11	9	\$1.84
	AK7421	2	3	34	14	11	\$1.97
	AK7422	3	4	40	17.5	21	\$2.62

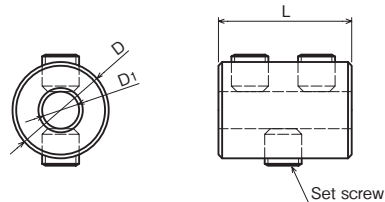
* Material: SUS304

* The size and diameter of wire rope used may differ.

Circular Clip



[Usage example]



No.	Size (rope dia.) (mm)	L (mm)	D (mm)	D ₁ (mm)	Hex. wrench. (mm)	Unit weight (g)	Clamping torque (N·m)	Working load limit (kg)	List price
AK15177	1	12	6	2	0.9	2	0.15	10	\$5.23
AK15178	1.2/1.5	15	9	3	1.5	7	0.5	20/30	\$5.51
AK15179	2	16	10	4	2	8	1.2	40	\$5.62
AK15180	2.5	18	13	5	2.5	15	2.2	50	\$6.43
AK15181	3	20	16	6	2.5	27	2.2	70	\$7.71

* Material: SUS304

* The working load values given assume that the set screws are tightened to the torque values in the table above, and in combination with the 7 x 7, or 7 x 19 cable and wire ropes.

* A hexagon wrench is not included.

Ferrule



[Aluminum]							
No.	Size (rope dia.) (mm)	d (mm)	B (mm)	L (mm)	t (mm)	Unit weight (g)	List price
AK15270	1	1.3	2.2	7	0.6	0.1	\$0.20
AK15271	1.5	1.7	3.4	7	0.7	0.15	\$0.20
AK15272	2	2.3	4.6	10	1	0.42	\$0.26
AK15273	2.5	2.9	5.6	18	1.1	0.9	\$0.41
AK15274	3	3.5	6.8	11	2	1.5	\$0.52
AK15275	4	4.5	9.5	16	2	2	\$0.73

* Material: A5052

[Stainless steel]							
No.	Size (rope dia.) (mm)	d (mm)	B (mm)	L (mm)	t (mm)	Unit weight (g)	List price
AK15280	1	1.2	3	7	0.4	0.19	\$0.55
AK15281	1.5	2.0	3.8	10	0.4	0.34	\$0.61
AK15282	2	2.2	4.4	12	0.5	0.56	\$0.76
AK15283	2.5	2.7	5.5	14	0.6	1.03	\$1.02
AK15284	3	3.4	6.8	14	0.6	1.28	\$1.42
AK15285	4	4.5	9.5	16	2	7.5	\$4.61

* Material: SUS304

Caution

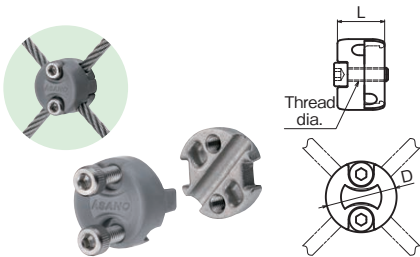
When used with stainless steel wire rope, the aluminum Ferrule may cause galvanic corrosion in wet environments (sea water, moisture, etc.). We recommend the use of stainless steel Ferrule for stainless steel wire rope.

Wire Clamp Cutter WCC-250



No.	Full length (mm)	Cutting capability	Clamping capability	Unit weight (g)	List price
AK15301	254	φ3	0.27~1.5	380	\$69.70

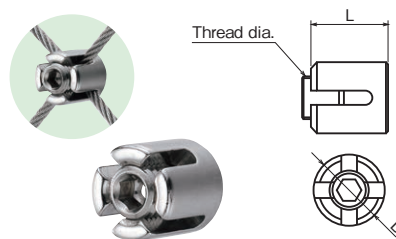
Cross Clip Type P PAT.



No.	Size	Used wire size (mm)	L (mm)	D (mm)	Thread dia.	Hex. wrench. (mm)	Unit weight (g)	List price
AK15160	φ3	3	14	21	M4	3	15	\$4.03
AK15161	φ4	4	14	21	M4	3	15	\$4.13

* Material: SCS14 (equivalent to SUS316), Cap = nylon, Screw = SUS304

Cross Clip



No.	Size	Used wire size (mm)	L (mm)	D (mm)	Thread dia.	Hex. wrench. (mm)	Unit weight (g)	List price
AK15173	4	4	21	20	M12	6	36	\$12.14
AK15175	6	6	25	20	M12	6	35	\$13.33

* Material: SUS316 (screw = SUS304)

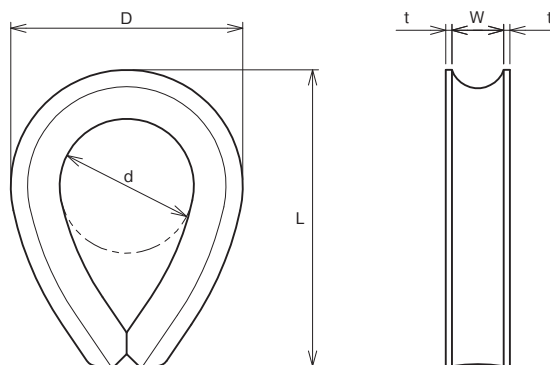
PVC Cap



Size (wire dia.) (mm)	No.		List price
	Black	White	
3	AK15240B	AK15240W	\$0.30
4	AK15241B	AK15241W	\$0.35
5	AK15242B	AK15242W	\$0.40
6	AK15243B	AK15243W	\$0.50
8	AK15245B	AK15245W	\$0.60

* Use PVC caps for the tips of wires and rods.

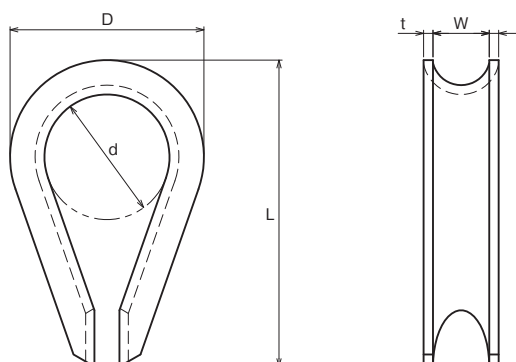
Wire Rope Course (Thimble Type A)



No.	Size (wire dia.) (mm)	d (mm)	L (mm)	D (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK3349	5	13	30	23	6	1	12	\$2.78
AK3350	6	16	36	28	7	1	20	\$3.20
AK3351	8	22	48	38	8	1	40	\$4.10
AK3352	9	25	52	42	10	1	50	\$5.05
AK3353	10	28	60	47	11	1.5	60	\$6.80
AK3354	12	34	69	56	13	1.5	90	\$9.45
AK3355	14	38	79	63	15	1.5	140	\$13.30
AK3356	16	44	92	75	17	2	190	\$20.85
AK3357	18	48	100	78	19	2	270	\$27.55
AK3358	20	54	112	89	21	2	390	\$35.85
AK3359	22	60	122	99	23	2.5	510	\$51.65
AK3360	24	65	136	109	25	2.5	760	\$65.40

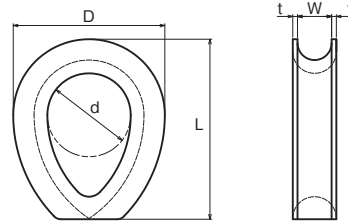
* Material: SCS14 (equivalent to SUS316)

Plate Wire Rope Course



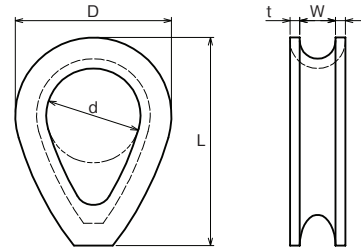
No.	Size (wire dia.) (mm)	d (mm)	L (mm)	D (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK3340	2	8	23	13	2.8	0.8	2	\$0.58
AK3339	3	10	24.5	16	3.4	0.8	2	\$0.63
AK3341	4	11.5	28	17.5	4.4	0.8	3	\$0.70
AK3342	5	14	33	22	5.4	0.8	6	\$0.89
AK3343	6	16	37	25	7.5	1.5	10	\$1.15
AK3344	8	20	51	31	9	1.5	19	\$1.79
AK3345	10	24	58	38	11	1.5	27	\$2.41
AK3346	12	30	66	45	14	1.5	38	\$3.87

* Material: SUS304

Wire Rope Course (Deep Groove Type)

No.	Size (wire dia.) (mm)	d (mm)	L (mm)	D (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK3383	6	16	37	30	7	2	25	\$5.28
AK3384	8	22	50	41	9	2	53	\$6.70
AK3385	9	25	53	45	10	2	63	\$7.95
AK3386	10	28	60	50	11	2	86	\$8.99
AK3387	12	34	71	60	13	2	140	\$11.60
AK3388	14	38	81	69	15	2	210	\$16.35
AK3389	16	43	95	80	17	3	345	\$21.88
AK3390	18	48	104	86	19	3	410	\$27.95
AK3391	20	54	117.5	97	22	3	560	\$39.00

* Material: SCS13 (equivalent to SUS304)

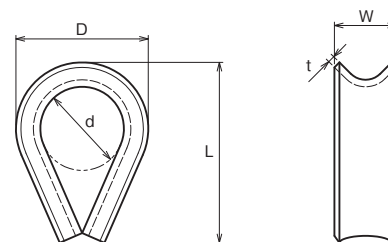
Grand Course

No.	Size (wire dia.) (mm)	d (mm)	L (mm)	D (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK3372	10	27	65	47	10.5	3	80	\$9.90
AK3373	12	32	75	57	14.5	4	155	\$12.33
AK3374	16	36	90	68	16.5	5	280	\$20.20
AK3375	18	43	100	75	19.5	5	335	\$23.03

* Material: SCS13 (equivalent to SUS304)

Rope Course

This rope course is for textile ropes only.
Do not use this for wire ropes because the groove is shallow.



No.	Size (rope dia.) (mm)	d (mm)	L (mm)	D (mm)	W (mm)	t (mm)	Unit weight (g)	List price
AK3600	9	14	33	24	14	2.5	25	\$2.28
AK3601	12	24	53	37	18	2.5	45	\$3.08
AK3602	16	30	60	44	21	2.5	60	\$4.30
AK3603	19	33	65	46	24	2.8	85	\$5.28
AK3604	22	39	77	54	26	3	110	\$6.25
AK3605	25	44	84	62	31	4	200	\$10.00
AK17101	30	50	100	72	35	5	300	\$27.60
AK17103	36	54	110	81	37	5	350	\$37.85
AK17104	42	72	137	108	46	6	800	\$63.00
AK17106	48	79	147	115	59	6	1000	\$76.40

* Material: SUS304

Light Spike SG

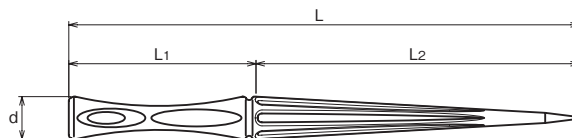
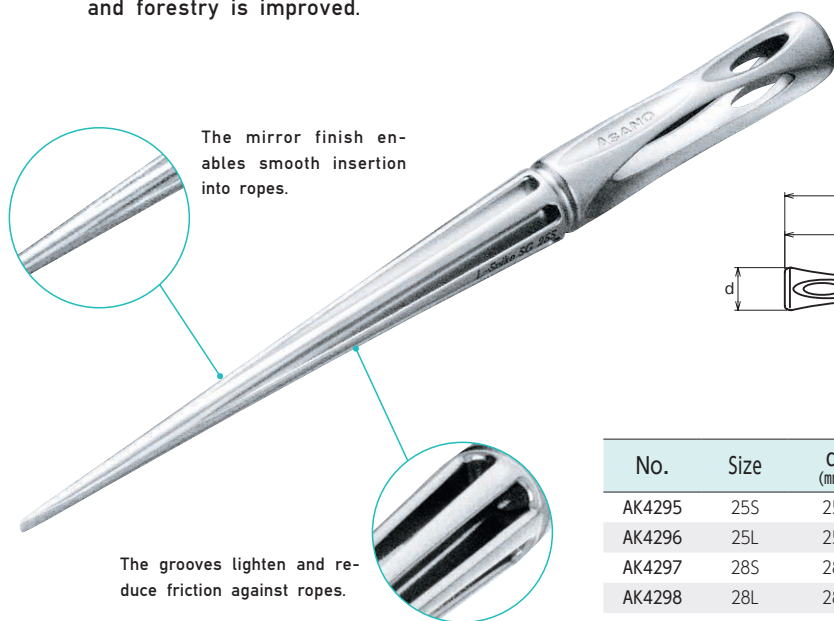


Niigata IDS Design Competition 2010

Winner of the IDS Award

The work speed in fishing, building, and forestry is improved.

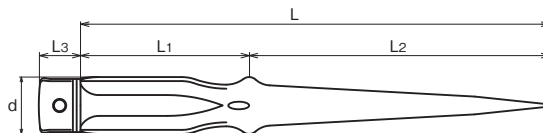
Our functional design is praised for "exhibiting professional art".



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	Unit weight (g)	List price
AK4295	25S	25	300	110	190	375	\$62.63
AK4296	25L	25	350	130	220	465	\$67.48
AK4297	28S	28	350	130	220	535	\$100.03
AK4298	28L	28	400	130	270	600	\$109.00
AK4299	32L	32	400	130	270	750	\$125.25

*Material: Special stainless steel

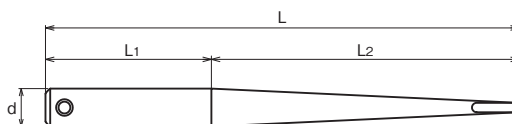
Light Spike



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	L ₃ (mm)	Unit weight (g)	List price
AK4283	22S	30	250	90	160	20	370	\$44.55

*Material: Special stainless steel

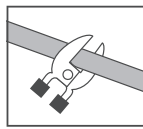
Spike



No.	Size	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	Unit weight (g)	List price
AK4241	16	16	200	70	130	210	\$22.35
AK4242	19	19	200	70	130	300	\$29.30
AK4243	22S	22	250	95	155	450	\$42.05
AK4244	22L	22	300	110	190	510	\$48.15
AK4245	25S	25	300	110	190	700	\$78.50
AK4246	25L	25	350	130	220	900	\$86.50
AK4247	28S	28	350	130	220	1200	\$119.00
AK4248	28L	28	400	130	270	1380	\$130.70

*Material: SUS304

Terminal fittings adjusted or fabricated on site



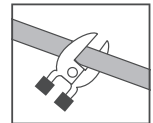
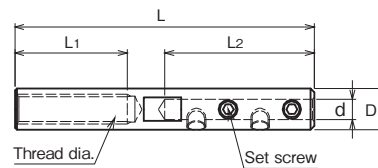
The wire can be cut on site.

◀ Regarding the products with the mark on the left, their wires can be cut on site to lengths that are suitable for the installation area before being installed on the products.

<Recommended>

- When the required length of the wire to be installed has not been determined.
- When you need to adjust the wire length while installing it.

SN Terminal



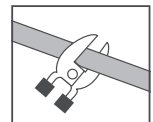
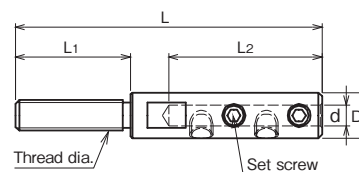
The wire can be cut on site.

Right-handed thread	Left-handed thread	Size (wire dia.) (mm)	Thread dia.	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Set screw	Hex. wrench. (mm)	Unit weight (g)	Clamping torque (N·m)	Working load limit (kg)	List price
AK15312	AK15312L	3	M5	3.4	60	25	25	8	M4	2	15	2.2	50	\$14.23
AK15313	AK15313L	4	M6	4.5	65	25	30	9	M5	2.5	20	3.0	70	\$17.30
AK15314	AK15314L	5	M8	5.5	80	30	40	12	M6	3	50	4.0	80	\$20.35
AK15315	AK15315L	6	M10	6.5	100	45	45	14	M6	3	80	4.0	80	\$27.80

* Material: SUS316, Set screw: SUS304

* The working load values given assume that the set screws are tightened to the torque values in the table above, and in combination with the 7 × 7, 7 × 19 cable and wire ropes.

SB Terminal



The wire can be cut on site.

Right-handed thread	Left-handed thread	Size (wire dia.) (mm)	Thread dia.	d (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	D (mm)	Set screw	Hex. wrench. (mm)	Unit weight (g)	Clamping torque (N·m)	Working load limit (kg)	List price
AK15302	AK15302L	3	M5	3.4	64	29	25	8	M4	2	16	2.2	50	\$20.24
AK15303	AK15303L	4	M6	4.5	70	30	30	9	M5	2.5	20	3.0	70	\$22.30
AK15304	AK15304L	5	M8	5.5	86	36	40	12	M6	3	44	4.0	80	\$26.66
AK15305	AK15305L	6	M10	6.5	108	53	55	14	M6	3	73	4.0	80	\$32.10

* Material: SUS316, Set screw: SUS304

* The working load values given assume that the set screws are tightened to the torque values in the table above, and in combination with the 7 × 7, 7 × 19 cable and wire ropes.

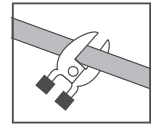
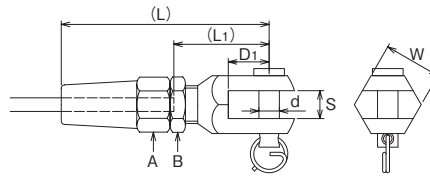
<Procedure for installing an SN or SB Terminal>

- ① Cut the wire to the required length. When cutting the wire, consider the length (L₂ size in the above table) of wire that will be inserted into the SN or SB Terminal.
- ② Insert the wire into the SN or SB Terminal. Preferably apply an adhesive such as glue to the wire before inserting the wire to prevent it from coming off.
- ③ Tighten the set screw. Tighten the screw by, at a minimum, the torque specified in the above table.

⚠ Caution

- In the cases of SN Terminals and SB Terminals, the wire is fixed by the set screw. Therefore, the wire may come off if instantaneous load or an impact is applied to it. Never use the SN or SB Terminal for purposes such as the following: for an object that people may stand on or hang from, or that is used to move heavy objects up or down.
- Be sure to use the wire consisting of strands 7x19 or 7x7.
Do not use the wire consisting of strands 1x19 or a round bar since it is slippery and comes off easily.

SL Fork Terminal

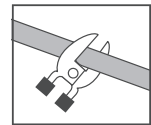
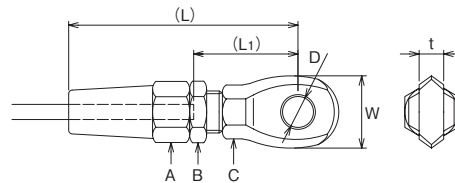


The wire can be cut on site.

No.	Size (wire dia.) (mm)	(L) (mm)	(L1) (mm)	W (mm)	D1 (mm)	d (mm)	S (mm)	Width across flats A (mm)	Width across flats B (mm)	Clamping torque (N·m)	Unit weight (g)	Working load limit (kg)	List price
AK15340	3	49	22	13	9.5	5	6	12	12	10	40	150	\$22.60
AK15341	4	62	28	17	12	6	8	14	14	15	70	250	\$28.05
AK15342	5	70	35	21	15	8	10	17	17	25	125	400	\$40.88
AK15343	6	87	43	24	17.5	9	12	19	19	35	180	600	\$53.70

* The sizes of L and L1 vary depending on the wire type and assembly procedure. Consider these sizes as guidelines.

SL Eye Terminal

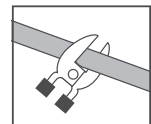
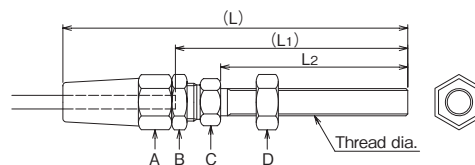


The wire can be cut on site.

No.	Size (wire dia.) (mm)	(L) (mm)	(L1) (mm)	W (mm)	D (mm)	t (mm)	Width across flats A (mm)	Width across flats B (mm)	Width across flats C (mm)	Clamping torque (N·m)	Unit weight (g)	Working load limit (kg)	List price
AK15350	3	48	22	16	6.3	5.4	12	12	10	10	35	150	\$18.53
AK15351	4	61	26	19	8.3	6.4	14	14	12	15	55	250	\$22.83
AK15352	5	70	33	21	10.3	7.9	17	17	14	25	95	400	\$31.43
AK15353	6	85	42	26	12.5	9	19	19	17	35	145	600	\$45.18

* The sizes of L and L1 vary depending on the wire type and assembly procedure. Consider these sizes as guidelines.

SL Terminal Bolt

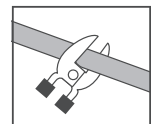
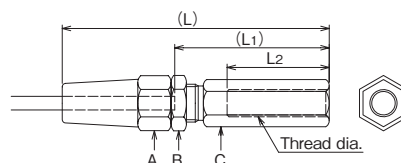


The wire can be cut on site.

Right-handed thread	List price	Left-handed thread	List price	Size (wire dia.) (mm)	(L) (mm)	(L1) (mm)	L2 (mm)	Thread dia.	Width across flats A (mm)	Width across flats B (mm)	Width across flats C (mm)	Width across flats D (mm)	Clamping torque (N·m)	Unit weight (g)	Working load limit (kg)
AK15360	\$20.53	AK15360L	\$23.73	3	82	56	45	M6	12	12	10	10	10	35	150
AK15361	\$25.98	AK15361L	\$29.58	4	103	68	55	M8	14	14	12	13	15	65	250
AK15362	\$36.65	AK15362L	\$40.65	5	113	77	60	M10	17	17	14	17	25	110	400
AK15363	\$48.63	AK15363L	\$53.13	6	145	103	80	M12	19	19	17	19	35	175	600

* The sizes of L and L1 vary depending on the wire type and assembly procedure. Consider these sizes as guidelines.

SL Terminal Nut



The wire can be cut on site.

Right-handed thread	List price	Left-handed thread	List price	Size (wire dia.) (mm)	(L) (mm)	(L1) (mm)	L2 (mm)	Thread dia.	Width across flats A (mm)	Width across flats B (mm)	Width across flats C (mm)	Clamping torque (N·m)	Unit weight (g)	Working load limit (kg)
AK15370	\$20.60	AK15370L	\$24.10	3	67	37	25	M6	12	12	10	10	40	150
AK15371	\$25.90	AK15371L	\$29.50	4	83	45	30	M8	14	14	12	15	60	250
AK15372	\$35.50	AK15372L	\$39.70	5	104	63	45	M10	17	17	14	25	100	400
AK15373	\$48.48	AK15373L	\$53.48	6	124	78	55	M12	19	19	17	35	165	600

* The sizes of L and L1 vary depending on the wire type and assembly procedure. Consider these sizes as guidelines.

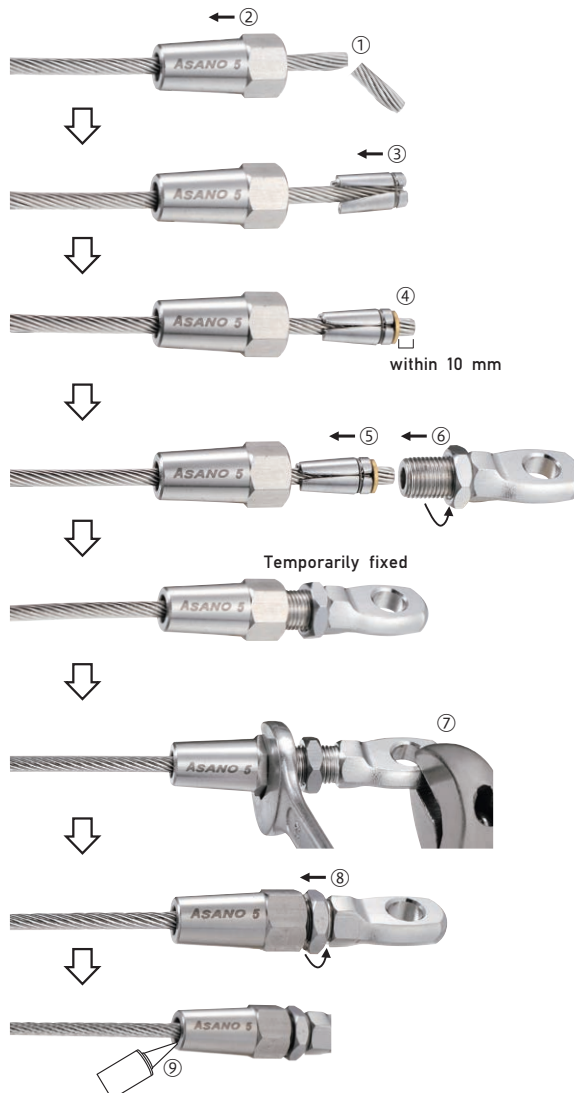
<SL Terminal Series>



Components



Assembly procedure



⚠ Caution

- After completing the assembly procedure, applying tension to the wire may loosen the terminal fixed onto the casing. If the terminal becomes loose, tighten it.
- Even when the gap is filled with a sealant, the bill-shaped clip may rust.



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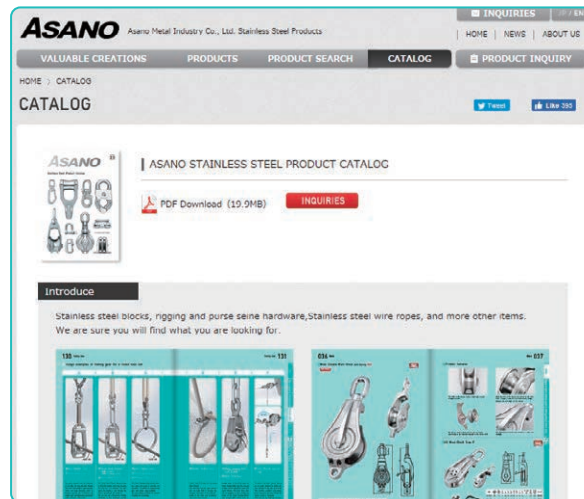
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Product catalog page

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