

Supporting ideal lifting work with outstanding quality

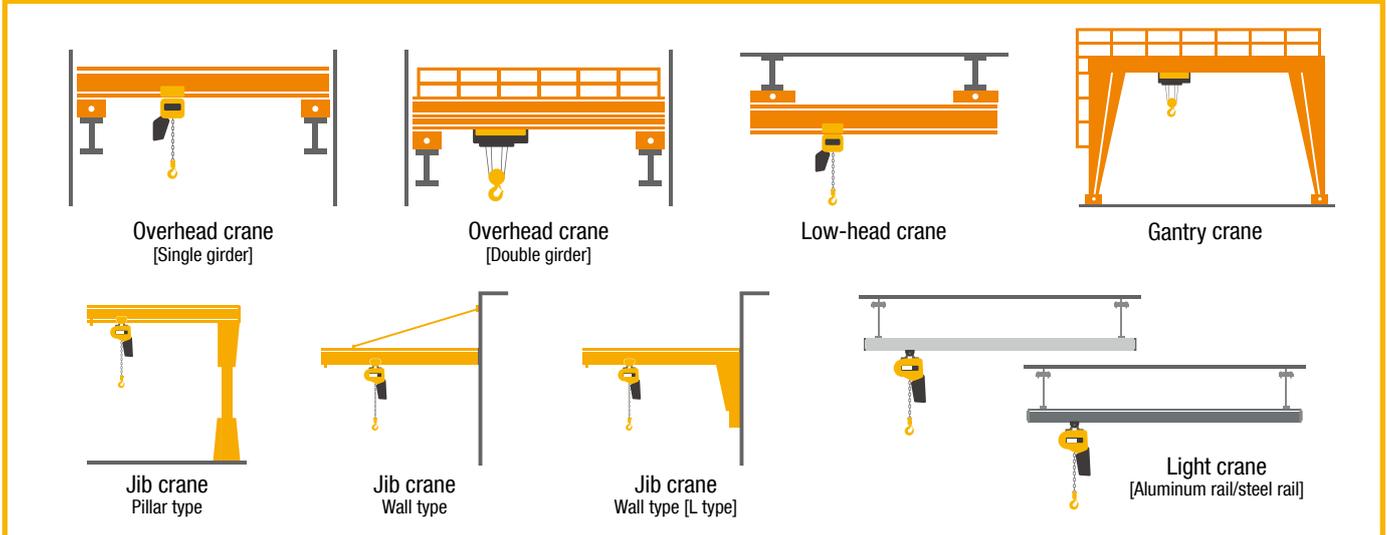
# ***KITO CHAIN SLING 100*** ***S5 Series***



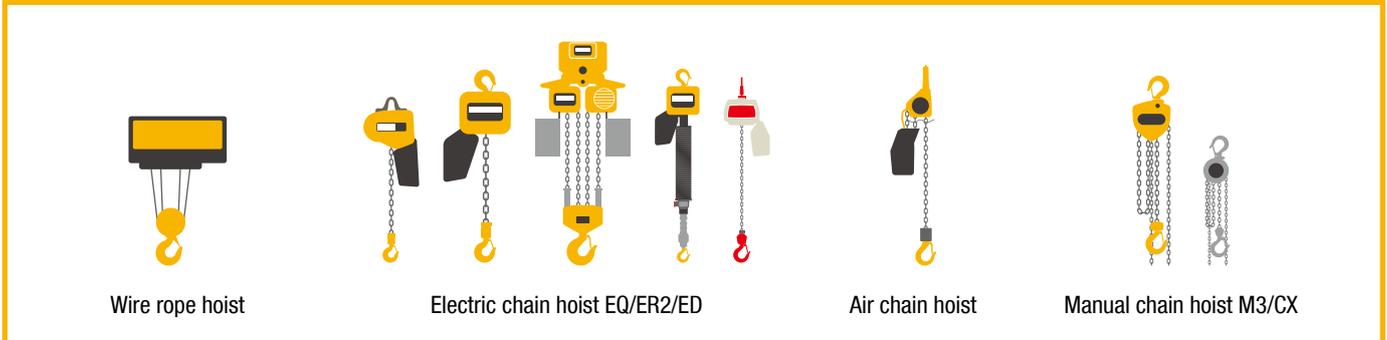
# KITO provide all equipment from crane to below the hook devices.

KITO provide total crane system combining various crane & hoist, and manufacture custom-made design according to customers demanding.

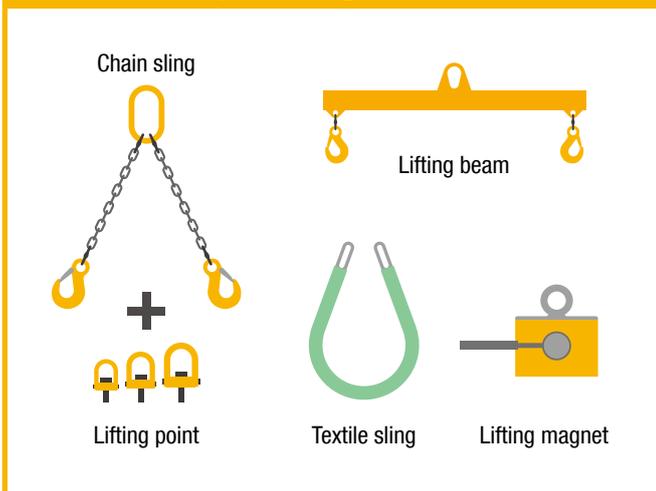
## Each Type of Crane



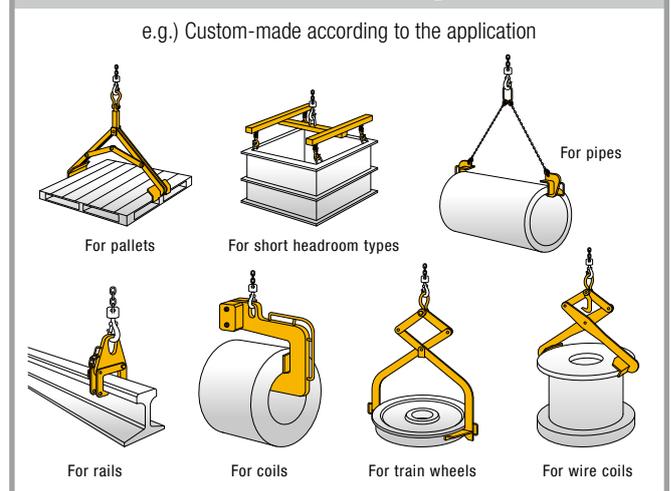
## Each Type of Hoist



## Variety of Sling and Device



## Custom Lifting





# INDEX

## KITO Chain Sling 100 [S5 Series]

|  |   |
|--|---|
| Applications .....                                     | 4 |
| Features of the KITO Chain Sling 100 [S5 Series] ..... | 6 |
| Link Chain Specification Table .....                   | 6 |
| KITO Sling Tag .....                                   | 7 |
| Table of Lifting and Working Load Limits .....         | 8 |
| How to select of slings .....                          | 9 |

## Fittings Components

|   |    |
|---|----|
| Examples of Fittings Embossed Marking .....         | 10 |
| Selection Table of Kit of Pin for Clevis Hook ..... | 11 |
| Clevis Type [Fittings Components] .....             | 12 |
| Eye Type [Fittings Components] .....                | 14 |

## Assembled .....

### How to Understand Each Code

|  |    |
|--|----|
| Clevis Type [Assembled] .....                | 18 |
| •Single Leg Sling •Double Leg Sling .....    | 19 |
| •Triple Leg Sling •Quadruple Leg Sling ..... |    |
| Eye Type [Assembled] .....                   | 20 |
| •Single Leg Sling •Double Leg Sling .....    | 21 |
| •Triple Leg Sling •Quadruple Leg Sling ..... |    |
| Eye Type (HMF) [Assembled] .....             | 22 |
| •Triple Leg Sling •Quadruple Leg Sling ..... |    |

## Examples of Components .....

[Clevis Type/Eye Type] •The case of  $\phi 7$ mm chains

## KITO Large Master Link HMG/HMH

|  |    |
|--|----|
| Large Master Link HMG/HMH Specification Table .....                          | 25 |
| Combinations of Hi-coupling for Use with the Large Master Link HMG/HMH ..... | 25 |
| Eye Type (HMG/HMH) [Assembled]   |    |
| •Single Leg Sling •Double Leg Sling .....                                    | 26 |
| •Triple Leg Sling •Quadruple Leg Sling .....                                 | 27 |

|  |            |
|--|------------|
| Precautions for Use/<br>Recommendations for Correct Equipment Administration ..... | Back Cover |
|--|------------|



Since one of the most trustworthy companies for hoist and crane in this industry, KITO can realize the following qualities

**KITO's Sling Chain is high quality  
as same as load chain used with Hoists.**



**Grade 10**

**Comply with  
JIS standard**

**Safety  
factor 5:1**

**Original  
durability  
testing**

**Strict  
external  
appearance  
standards**



# Features of the KITO Chain Sling 100 [S5 Series]

## Advanced chain manufacturing technologies realize outstanding link chains

### [Ultimate Elongation]

KITO link chains have both a high breaking stress and toughness due to the advanced chain manufacturing technologies that are utilized. This is verified by the numerical value of 20% or more achieved for the ultimate elongation based on the JIS standards requirements.

### [Bending capacity]

Concerning the strength in the link bending direction, the use of advanced welding technologies gives the links sufficient absorbability as shown by the photograph (right) of the result of bending test, and no breakage or cracking occurs. (However, this does not indicate that the product should be used until it reaches the condition shown in the photograph.)

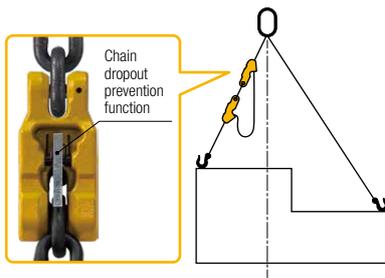


## "Adjustment of length" can be made, which is not possible when using wires

Chain slings can have their lengths adjusted in single link units to conduct load tilt adjustment or quickly change the sling length, which is not possible when using wires. Depending on the application, the shortening clutch (VWW) should be used.

### Shortening Clutch (VWW)

When using with workload with different heights on the left and right, the Shortening Clutch can be used to shorten the chain on one side, enabling well-balanced work. Also, the Shortening Clutch has a chain dropout prevention function so that the chain will not drop out unexpectedly. Once the length has been set, work can be conducted repeatedly.



## Wide range of variations allow selection of the optimum combination for any application

Standard link chains are provided in various diameters from  $\varnothing 6.0\text{mm}$  to  $\varnothing 20.0\text{mm}$  to support work lifting heavy and large-sized objects. The link chain and fitting combinations offer clevis-type products with exclusive retaining pins, and eye-type products which use Hi-couplings. Since a wide range of fittings are also available, it is possible to freely select from among single leg, double leg, triple leg, quadruple leg, and endless types to match the usage purpose.



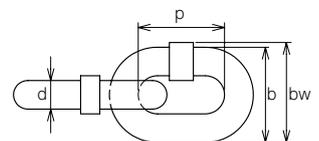
## Allows use even in severe working environments.

The KITO Chain Sling 100 [S5 Series] is actively utilized even in severe working environments. Nickel-plated chain specifications, which are resistant to rusting, are recommended for environments that are greatly affected by rainwater, seawater, steam and chemicals. Please consult KITO when you intend to use products for special applications such as in acid or alkaline solutions.

\* Please contact KITO for chain slings other than standard products.

## Link Chain Specification Table

| Chain Diameter d (mm) | Code   | Working Load Limit (t) | Pitch p (mm) | Outside Width b (mm) | Maximum Outside Width bw (mm) | Breaking Force (kN) | Mass (Weight) per Meter (kg) |
|-----------------------|--------|------------------------|--------------|----------------------|-------------------------------|---------------------|------------------------------|
| $\varnothing 6.0$     | SV2060 | 1.1                    | 18.0         | 21.8                 | 22.2                          | 56.5                | 0.83                         |
| $\varnothing 7.0$     | SV2070 | 1.5                    | 21.0         | 25.4                 | 25.9                          | 77                  | 1.15                         |
| $\varnothing 8.0$     | SV2080 | 2.0                    | 24.0         | 29.0                 | 29.6                          | 101                 | 1.43                         |
| $\varnothing 10.0$    | SV2100 | 3.2                    | 30.0         | 36.2                 | 37.0                          | 160                 | 2.23                         |
| $\varnothing 13.0$    | SV2130 | 5.2                    | 39.0         | 45.5                 | 48.1                          | 268                 | 3.78                         |
| $\varnothing 16.0$    | SV2160 | 8.0                    | 48.0         | 56.0                 | 59.2                          | 402                 | 5.85                         |
| $\varnothing 20.0$    | SV2200 | 12.5                   | 60.0         | 70.0                 | 74.0                          | 630                 | 9.5                          |



•Comply with JIS standard.

# KITO Sling Tag

Every KITO CHAIN SLING 100 [S5 Series] product has a KITO Sling Tag attached. The KITO Sling Tag is an important item for carrying out safe work, so be sure to confirm that the tag is attached to the product before starting work.

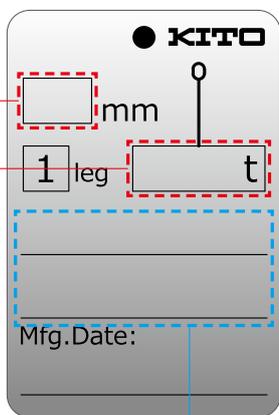
## KITO gives its primary consideration to safety.



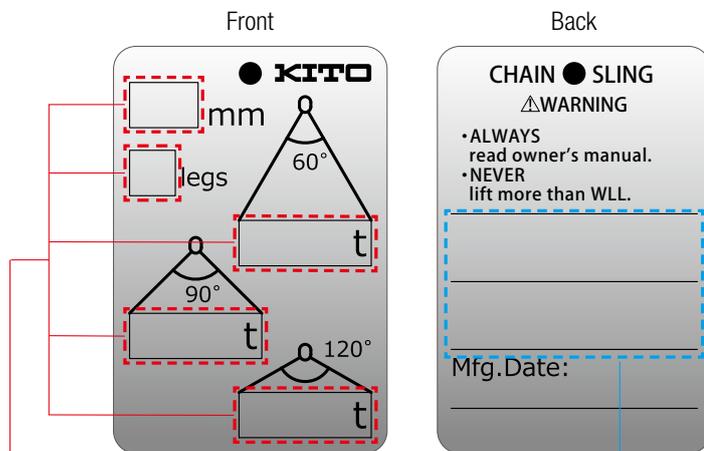
The following important information is described on the Kito Sling Tag.

|   |                  |                |                              |
|---|------------------|----------------|------------------------------|
| Method of Lifting and Working Load Limits | Manufacture Date | Chain Diameter | Management Number (Optional) |
|---|------------------|----------------|------------------------------|

For Single Leg Sling



For Double/ Triple/ Quardruple Leg Sling



Be certain to use the sling within the range of the working load limits that are indicated on the tag. The working load limits and angles of loading are inscribed based on the "Method of Lifting and working Load Limits" on page 8.

Because a space is prepared on the tag so that customers can write an optional administration number, please use this for your product safety administration.

# Table of Lifting and Working Load Limits

•KITO CHAIN SLING 100 [S5 Series] •Large Master Link HMG/HMH and Master Link with Sub Links HMF

## Note

Note that in the case of using the Large Master Link HMG/HMH or the Master Link HMF with Sub Links, the “Slinging Methods and W.L.L. (Working Load Limits)” will be different. Please refer to the appropriate tables and use the product within the range of the working load limits.

## Reductions in the Working Load Limits

In order to use products safely over a long period, when using products under the conditions described on the right, the working load limits should be reduced to 80% and the appropriate slings should be selected.

- 1 Work that is carried out with high frequency or when the working load is applied continuously
- 2 Work in which vibration is applied continuously
- 3 Usage by incorporation in an automatic line

(Unit: t)

| Slinging Method           | Slinging with Fittings |             |      | Slinging with Fittings    |      |      |             |      |      |             |      |      |                |     |      |                |      |      |            |             |     |                    |      |     |      |
|---------------------------|------------------------|-------------|------|---------------------------|------|------|-------------|------|------|-------------|------|------|----------------|-----|------|----------------|------|------|------------|-------------|-----|--------------------|------|-----|------|
|                           | *                      |             |      | *                         |      |      |             |      |      | *           |      |      |                |     |      | *              |      |      |            |             |     | Choke Hitch        |      |     |      |
|                           | Single Leg             | Double Legs |      | Triple and Quadruple Legs |      |      | Double Legs |      |      | Double Legs |      |      | Quadruple Legs |     |      | Quadruple Legs |      |      | Single Leg | Double Legs |     | Double Choke Hitch |      |     |      |
| Angle of Loading $\theta$ | —                      | 60°         | 90°  | 120°                      | 60°  | 90°  | 120°        | 60°  | 90°  | 120°        | 60°  | 90°  | 120°           | 60° | 90°  | 120°           | 60°  | 90°  | 120°       | —           | 60° | 90°                | 120° | —   |      |
| Chain Diameter (mm)       | ø6.0                   | 1.1         | 1.7  | 1.5                       | 1.1  | 2.4  | 2.1         | 1.5  | 1.7  | 1.5         | 1.1  | 1.2  | 1.1            | 0.7 | 2.4  | 2.1            | 1.5  | 1.8  | 1.5        | 1.1         | 0.7 | 1.2                | 1.1  | 0.7 | 1.1  |
|                           | ø7.0                   | 1.5         | 2.4  | 2.1                       | 1.5  | 3.2  | 2.8         | 2.0  | 2.4  | 2.1         | 1.5  | 1.6  | 1.5            | 1.0 | 3.2  | 2.8            | 2.0  | 2.5  | 2.1        | 1.5         | 1.0 | 1.6                | 1.5  | 1.0 | 1.5  |
|                           | ø8.0                   | 2.0         | 3.2  | 2.8                       | 2.0  | 5.0  | 4.0         | 2.8  | 3.2  | 2.8         | 2.0  | 2.2  | 2.0            | 1.4 | 5.0  | 4.0            | 2.8  | 3.6  | 2.8        | 2.0         | 1.4 | 2.2                | 2.0  | 1.4 | 2.0  |
|                           | ø10.0                  | 3.2         | 5.1  | 4.5                       | 3.2  | 8.0  | 6.4         | 4.5  | 5.1  | 4.5         | 3.2  | 3.6  | 3.2            | 2.2 | 8.0  | 6.4            | 4.5  | 5.6  | 4.5        | 3.2         | 2.2 | 3.6                | 3.2  | 2.2 | 3.2  |
|                           | ø13.0                  | 5.2         | 8.0  | 7.3                       | 5.2  | 12.5 | 10.4        | 7.3  | 8.0  | 7.3         | 5.2  | 5.7  | 5.2            | 3.6 | 12.5 | 10.4           | 7.3  | 9.0  | 7.3        | 5.2         | 3.6 | 5.7                | 5.2  | 3.6 | 5.2  |
|                           | ø16.0                  | 8.0         | 12.5 | 11.2                      | 8.0  | 20.0 | 16.0        | 11.2 | 12.5 | 11.2        | 8.0  | 9.0  | 8.0            | 5.6 | 20.0 | 16.0           | 11.2 | 14.0 | 11.2       | 8.0         | 5.6 | 9.0                | 8.0  | 5.6 | 8.0  |
|                           | ø20.0                  | 12.5        | 20.0 | 18.0                      | 12.5 | 32.0 | 25.0        | 18.0 | 20.0 | 18.0        | 12.5 | 14.0 | 12.5           | 9.0 | 32.0 | 25.0           | 18.0 | 22.4 | 18.0       | 12.5        | 9.0 | 14.0               | 12.5 | 9.0 | 12.5 |

|  |       |      |      |      |     |      |      |     |      |      |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |
|--|-------|------|------|------|-----|------|------|-----|------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| When Using the Large Master Link HMG/HMH | ø6.0  | 1.1  | 1.7  | 1.5  | 1.1 | 2.0  | 2.0  | 1.5 | 1.7  | 1.5  | 1.1 | 1.2 | 1.1 | 0.7 | 2.0  | 2.0  | 1.5 | 1.8 | 1.5 | 1.1 | 0.7 | 1.2 | 1.1 | 0.7 | 1.1 |
|  | ø7.0  | 1.5  | 2.0  | 2.0  | 1.5 | 3.2  | 2.8  | 2.0 | 2.0  | 2.0  | 1.5 | 1.6 | 1.5 | 1.0 | 3.2  | 2.8  | 2.0 | 2.5 | 2.1 | 1.5 | 1.0 | 1.6 | 1.5 | 1.0 | 1.5 |
|  | ø8.0  | 2.0  | 3.2  | 2.8  | 2.0 | 5.0  | 4.0  | 2.8 | 3.2  | 2.8  | 2.0 | 2.2 | 2.0 | 1.4 | 5.0  | 4.0  | 2.8 | 3.6 | 2.8 | 2.0 | 1.4 | 2.2 | 2.0 | 1.4 | 2.0 |
|  | ø10.0 | 3.2  | 5.0  | 4.5  | 3.2 | 8.0  | 6.4  | 4.5 | 5.0  | 4.5  | 3.2 | 3.6 | 3.2 | 2.2 | 8.0  | 6.4  | 4.5 | 5.6 | 4.5 | 3.2 | 2.2 | 3.6 | 3.2 | 2.2 | 3.2 |
|  | ø13.0 | 5.0  | 8.0  | 7.3  | 5.2 | 11.5 | 10.4 | 7.3 | 8.0  | 7.3  | 5.2 | 5.7 | 5.2 | 3.6 | 11.5 | 10.4 | 7.3 | 9.0 | 7.3 | 5.2 | 3.6 | 5.7 | 5.2 | 3.6 | 5.2 |
|  | ø16.0 | 8.0  | 11.5 | 11.2 | 8.0 | —    | —    | —   | 11.5 | 11.2 | 8.0 | 9.0 | 8.0 | 5.6 | —    | —    | —   | —   | —   | —   | 5.6 | 9.0 | 8.0 | 5.6 | 8.0 |
|  | ø20.0 | 11.5 | —    | —    | —   | —    | —    | —   | —    | —    | —   | —   | —   | —   | —    | —    | —   | —   | —   | —   | 9.0 | —   | —   | —   | —   |

|   |       |   |   |   |   |      |      |      |   |   |   |   |   |   |      |      |      |      |      |      |   |   |   |   |   |
|---|-------|---|---|---|---|------|------|------|---|---|---|---|---|---|------|------|------|------|------|------|---|---|---|---|---|
| When Using the Master Link with Sub Links HMF | ø6.0  |   |   |   |   | 2.8  | 2.2  | 1.5  |   |   |   |   |   |   | 2.8  | 2.2  | 1.5  | 1.9  | 1.5  | 1.1  |   |   |   |   |   |
|   | ø7.0  |   |   |   |   | 3.8  | 3.0  | 2.1  |   |   |   |   |   |   | 3.8  | 3.0  | 2.1  | 2.6  | 2.1  | 1.5  |   |   |   |   |   |
|   | ø8.0  |   |   |   |   | 5.0  | 4.0  | 2.8  |   |   |   |   |   |   | 5.0  | 4.0  | 2.8  | 3.5  | 2.8  | 2.0  |   |   |   |   |   |
|   | ø10.0 | — | — | — | — | 8.0  | 6.4  | 4.5  | — | — | — | — | — | — | 8.0  | 6.4  | 4.5  | 5.6  | 4.5  | 3.2  | — | — | — | — | — |
|   | ø13.0 |   |   |   |   | 13.0 | 10.4 | 7.3  |   |   |   |   |   |   | 13.0 | 10.4 | 7.3  | 9.1  | 7.3  | 5.2  |   |   |   |   |   |
|   | ø16.0 |   |   |   |   | 20.0 | 16.0 | 11.2 |   |   |   |   |   |   | 20.0 | 16.0 | 11.2 | 14.0 | 11.2 | 8.0  |   |   |   |   |   |
|   | ø20.0 |   |   |   |   | 32.0 | 25.0 | 18.0 |   |   |   |   |   |   | 32.0 | 25.0 | 18.0 | 22.4 | 18.0 | 12.5 |   |   |   |   |   |

•For slinging methods that have a “\*” mark, in situations where the chain is used by hooking on a grab hook (in order to adjust the length, etc.) the working load limits will become 70% of the values shown in the above table. For slinging methods that do not have a “\*” mark, no load reduction will be required.

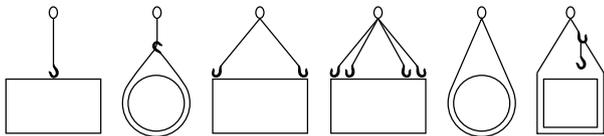
•The yellow-colored numerical values in the tables are exclusive values for “When Using the Large Master Link HMG/HMH” and “When Using the Master Link HMF with Sub Links” respectively.

# How to select of slings

What is the **form** of the suspended load?

## ► Sling type selection

Number of legs, fittings, slinging methods  
Clevis type or eye type



What is the **weight** of the suspended load?

## ► Confirmation of the working load limits according to the slinging method

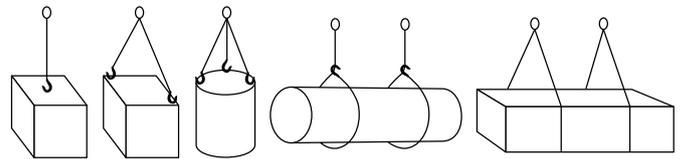
(Refer to the page at left)



## ► Determination of the reach

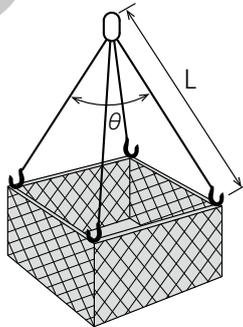
(Calculation of the angle of loading  $\theta$ )

## ► Determination of the chain diameter



In case two-set slinging is necessary, calculation should be carried out assuming that half of the suspended load weight when using one set will be applied to each chain sling. In this situation, it will be important to take care that equal loading is applied to the two sets.

Selection Example 1



Load form = Box pallet

- Clevis type
- Quadruple leg slings with sling hooks (with hook latches)

Weight = 2t

- Reach: L 1m
- The W.L.L. is 2.1t at  $\theta = 90^\circ$  for 6mm

Regarding the set product codes, refer to "KITO Assembled [How to Understand Each Codes]" on page 17.

1 set

**Q-VD-VSL4 · 6.0mm-1.0m**

Set product classification

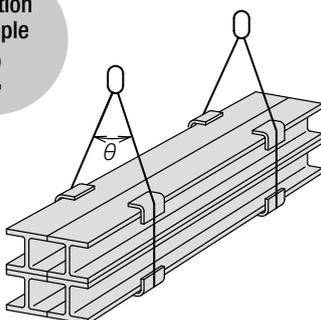
Top fitting type

Bottom fitting type

Chain diameter

Dimension L

Selection Example 2



Load form = H-beams (400 x 400)

- Lifting of 4 beams together
- Eye type
  - Endless sling 2 sets

Total weight = 7t

- Weight that can be supported by one sling set: 3.5t
- Reach: L 2.7m
  - The W.L.L. is 4.0t (5.7t x 0.7) at  $\theta = 50^\circ$  for 13mm
  - 0.7 is the reduction due to the use of square H-beams.

2 set

**D-HMM-00 · 13mm-2.7m**

In the case of the selection example 2, both slings must be loaded equally.

In endless slinging, because the angle of loading will change according to the dimensions of the load, before use be certain to confirm the angle of loading and use the products within the range of the working load limits.



KITO CHAIN SLING 100 [S5 Series]

## Fittings Components

Clevis-type and eye-type fittings components are available for KITO CHAIN SLING 100 products. Selection can be made from among a wide range of types to match the usage purposes.

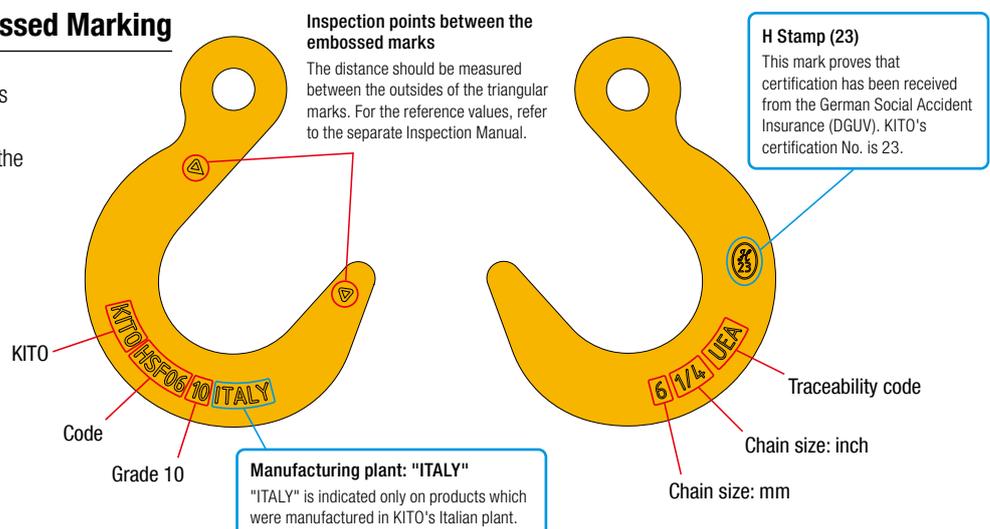


### Examples of Fittings Embossed Marking

All fittings have the embossed markings shown at right.

The markings indicate items including the inspection points, code and chain size, which will be useful during inspections before work and for confirmation.

\* The markings shown inside the blue boxes (the H Stamp and the manufacturing plant: "ITALY") are only embossed on products which were manufactured in Italy.



# Selection Table of Kit of Pin for Clevis Hook

There are two colors of chain pins, gray and black. For more details, refer to the description below.

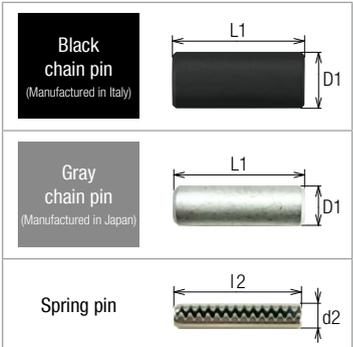
Before starting chain pin replacement work, it will be necessary to certainly confirm that the fitting code is appropriate by checking the label of the kit of pin.

**Note:** If mistaken work is conducted by inserting spring pins into fitting holes which do not match the spring pin diameter, it is possible that the spring pins and chain pins may drop out.

All clevis-type fittings have chain pins and spring pins packed together with them.

When purchasing as spares, the color of these pins may differ from the colors of the chain pins that were packaged together with the product when it was purchased. However, it has no problem in practical use.

| Case | Chain pin           |                     | Fittings to apply |       |    |    |    |    |    |      |      |  |  |  |
|------|---------------------|---------------------|-------------------|-------|----|----|----|----|----|------|------|--|--|--|
|      | Packed with product | Purchased as spares |                   |       |    |    |    |    |    |      |      |  |  |  |
| A    | Black               | Black               | VGG20             | VSR06 |    |    |    |    |    |      |      |  |  |  |
| B    | Gray                | Gray                | VA                | VB    | VC | VD | VE | VN | VR | VSL4 | VSL2 |  |  |  |
| C    | Black or Gray       | Black               | Other than VGG20  | VSF   |    |    |    |    |    |      |      |  |  |  |
| D    | Gray                | Black               | VWW               |       |    |    |    |    |    |      |      |  |  |  |



| Chain Diameter (mm) | Code    | Chain Pin D1 x L1 (mm) | Spring Pin d2 x l2 (mm) | Applicable Fittings |         |         |        |        |        |        |        |     |  |  |
|---------------------|---------|------------------------|-------------------------|---------------------|---------|---------|--------|--------|--------|--------|--------|-----|--|--|
|                     |         |                        |                         | VSF                 | VGG     | VWW     | VSR    | VA     | VB     | VC     | VR     | VSL |  |  |
| ø6.0                | VPA06   | ø7.5x17.5              | ø2.5x16                 | VSF06               | VGG06   | VWW06   | VSR06  |        |        |        |        |     |  |  |
|                     | VP2060K |                        | ø3x20                   | VE2060              | VD206   | VSL4060 | VN2060 | VA2060 | VB2060 | VC2060 | VR2060 |     |  |  |
| ø7.0                | VPA07   | ø9x22.5                | ø3x22                   | VSF07               | VGG007  | VWW07   |        |        |        |        |        |     |  |  |
|                     | VP2070K |                        | ø3x25                   | VE2070              | VD20706 | VSL4070 | VN2070 | VA2070 | VB2070 | VC2070 | VR2070 |     |  |  |
|                     | VP2070  |                        | ø3x20                   | VSL2070             |         |         |        |        |        |        |        |     |  |  |
| ø8.0                | VPA08   | ø10x22.5               | ø3x22                   | VSF08               | VGG08   | VWW08   |        |        |        |        |        |     |  |  |
|                     | VP2080K |                        | ø3x25                   | VE2080              | VD20807 | VSL4080 | VN2080 | VA2080 | VB2080 | VC2080 | VR2080 |     |  |  |
| ø10.0               | VPA10   | ø13x31.5               | ø3.5x28                 | VSF10               | VGG10   | VWW10   |        |        |        |        |        |     |  |  |
|                     | VP2100K |                        | ø4x32                   | VE2100              | VD21008 | VSL4100 | VN2100 | VA2100 | VB2100 | VC2100 | VR2100 |     |  |  |
|                     | VP2100B | ø13x29.5               | ø3x26                   | VSL2100             |         |         |        |        |        |        |        |     |  |  |
| ø13.0               | VPA13   | ø16x42                 | ø4x35                   | VSF13               | VGG13   | VWW13   |        |        |        |        |        |     |  |  |
|                     | VP2130K |                        | ø5x40                   | VE2130              | VD21310 | VSL4130 | VN2130 | VA2130 | VB2130 | VC2130 | VR2130 |     |  |  |
|                     | VP2130B | ø16x37                 | ø4x36                   | VSL2130             |         |         |        |        |        |        |        |     |  |  |
| ø16.0               | VPA16   | ø21x51.5               | ø4.5x40                 | VSF16               | VGG16   | VWW16   |        |        |        |        |        |     |  |  |
|                     | VP2160K |                        | ø5x50                   | VE2160              | VD21613 | VSL4160 | VN2160 | VA2160 | VB2160 | VC2160 | VR2160 |     |  |  |
|                     | VP2160B | ø20x52                 | ø4.5x40                 | VSL2160             |         |         |        |        |        |        |        |     |  |  |
| ø20.0               | VPA20   | ø25x73                 | ø5x50                   | VGG20               |         |         |        |        |        |        |        |     |  |  |
|                     | VP2200K | ø24x73                 | ø6x63                   | VE2200              | VD22016 | VSL4200 | VN2200 | VA2200 | VB2200 | VC2200 | VR2200 |     |  |  |
| (ø20.0)             | VP2250  | ø32x95                 | ø10x70                  | VD20020             |         |         |        |        |        |        |        |     |  |  |

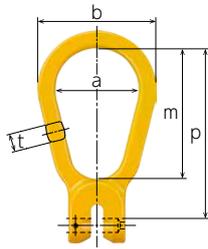
# Clevis Type [Fittings Components]

- When assembling the fittings components, assemble them correctly according to the separate "Assembly Manual".
- The specifications of clevis-type fittings components are shown in the tables below. For the link chain specification table, refer to page 6.
- Each fitting has the chain pins and spring pins attached.
- The weight of each fitting includes the weights of the chain pins and spring pins.

## Clevis Master Link

# VE

►For single leg slings



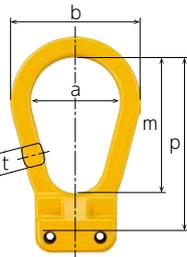
| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |     |     |     |      | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|-----|-----|-----|------|--------------------|
|                        |                     |        | p               | a   | b   | m   | t    |                    |
| 1.1                    | ø6                  | VE2060 | 115             | 56  | 79  | 90  | 11.5 | 0.38               |
| 1.5                    | ø7                  | VE2070 | 131             | 63  | 91  | 100 | 14   | 0.65               |
| 2.0                    | ø8                  | VE2080 | 130.5           | 71  | 105 | 110 | 17   | 1.1                |
| 3.2                    | ø10                 | VE2100 | 146             | 80  | 122 | 125 | 21   | 2.2                |
| 5.2                    | ø13                 | VE2130 | 169.5           | 90  | 142 | 145 | 26   | 4.3                |
| 8.0                    | ø16                 | VE2160 | 199             | 112 | 176 | 180 | 32   | 8.5                |
| 12.5                   | ø20                 | VE2200 | 250             | 140 | 220 | 225 | 40   | 14.9               |

## Clevis Master Link

# VD

►For double leg slings

►For triple and quadruple leg slings  
(Using Single Connector VA or Dual Connector VB)

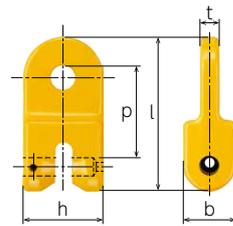
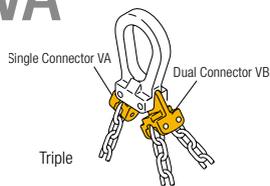


| Working Load Limit (t) | Chain Diameter (mm) |     | Code    | Dimensions (mm) |     |     |     |    | Mass (Weight) (kg) |
|------------------------|---------------------|-----|---------|-----------------|-----|-----|-----|----|--------------------|
|                        | D                   | T,Q |         | p               | a   | b   | m   | t  |                    |
| 1.7                    | ø6                  | —   | VD206   | 125             | 63  | 91  | 100 | 14 | 0.75               |
| 2.4                    | ø7                  | ø6  | VD20706 | 140             | 71  | 105 | 110 | 17 | 1.2                |
| 3.2                    | ø8                  | ø7  | VD20807 | 139.5           | 80  | 122 | 125 | 21 | 2.2                |
| 5.1                    | ø10                 | ø8  | VD21008 | 159             | 90  | 142 | 140 | 26 | 4.1                |
| 8.0                    | ø13                 | ø10 | VD21310 | 179.5           | 112 | 176 | 180 | 32 | 8.0                |
| 12.5                   | ø16                 | ø13 | VD21613 | 224             | 140 | 220 | 225 | 40 | 14.9               |
| 20.0                   | ø20                 | ø16 | VD22016 | 279             | 180 | 280 | 280 | 50 | 30.2               |
| 32.0                   | —                   | ø20 | VD20020 | 359             | 220 | 320 | 320 | 60 | 45.0               |

•The chain diameters D and TQ show the number of sling legs. D: Double leg slings, TQ: Triple and quadruple leg slings

## Single Connector

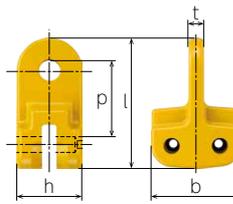
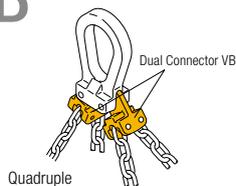
# VA



| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |     |    |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|-----|----|------|------|--------------------|
|                        |                     |        | p               | h   | b  | l    | t    |                    |
| 1.1                    | ø6                  | VA2060 | 39.5            | 38  | 22 | 69   | 7    | 0.23               |
| 1.5                    | ø7                  | VA2070 | 43              | 38  | 27 | 75.5 | 8    | 0.31               |
| 2.0                    | ø8                  | VA2080 | 50              | 44  | 34 | 84.5 | 10   | 0.39               |
| 3.2                    | ø10                 | VA2100 | 59              | 54  | 42 | 102  | 12.5 | 0.72               |
| 5.2                    | ø13                 | VA2130 | 80              | 66  | 54 | 132  | 16   | 1.5                |
| 8.0                    | ø16                 | VA2160 | 99              | 84  | 68 | 167  | 20   | 3.0                |
| 12.5                   | ø20                 | VA2200 | 119.5           | 102 | 80 | 201  | 25   | 5.3                |

## Single Connector

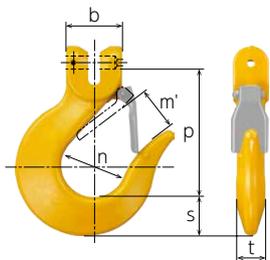
# VB



| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |     |     |     |      | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|-----|-----|-----|------|--------------------|
|                        |                     |        | p               | h   | b   | l   | t    |                    |
| 1.7                    | ø6                  | VB2060 | 39.5            | 38  | 48  | 70  | 7    | 0.34               |
| 2.4                    | ø7                  | VB2070 | 43              | 38  | 57  | 77  | 8    | 0.47               |
| 3.2                    | ø8                  | VB2080 | 50              | 44  | 66  | 86  | 10   | 0.62               |
| 5.1                    | ø10                 | VB2100 | 59              | 54  | 72  | 104 | 12.5 | 1.2                |
| 8.0                    | ø13                 | VB2130 | 80              | 66  | 80  | 134 | 16   | 2.3                |
| 12.5                   | ø16                 | VB2160 | 99              | 84  | 90  | 170 | 20   | 4.9                |
| 20.0                   | ø20                 | VB2200 | 119.5           | 102 | 100 | 205 | 25   | 8.6                |

## Sling Hook

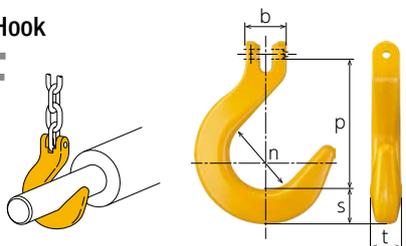
# VSL (VSL4)



| Working Load Limit (t) | Chain Diameter (mm) | Code    | Dimensions (mm) |     |     |    |      | Mass (Weight) (kg) |      |
|------------------------|---------------------|---------|-----------------|-----|-----|----|------|--------------------|------|
|                        |                     |         | p               | b   | n   | m' | s    |                    | t    |
| 1.1                    | ø6                  | VSL4060 | 85              | 38  | 45  | 26 | 24.5 | 18                 | 0.55 |
| 1.5                    | ø7                  | VSL4070 | 100             | 44  | 50  | 31 | 30   | 21.8               | 0.94 |
| 2.0                    | ø8                  | VSL4080 | 99.5            | 54  | 56  | 39 | 37.5 | 27.2               | 1.7  |
| 3.2                    | ø10                 | VSL4100 | 119             | 66  | 63  | 46 | 47.5 | 34.5               | 3.5  |
| 5.2                    | ø13                 | VSL4130 | 140             | 84  | 75  | 53 | 60   | 45                 | 7.0  |
| 8.0                    | ø16                 | VSL4160 | 168.5           | 102 | 95  | 68 | 75   | 56                 | 11.8 |
| 12.5                   | ø20                 | VSL4200 | 209             | 130 | 120 | 80 | 90   | 70                 | 20.0 |

## Foundry Hook

# VSF



| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |      |     |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|------|-----|------|------|--------------------|
|                        |                     |       | p               | b    | n   | s    | t    |                    |
| 1.1                    | ø6                  | VSF06 | 92              | 27   | 53  | 26   | 21.5 | 0.68               |
| 1.5                    | ø7                  | VSF07 | 115.5           | 36.5 | 64  | 31   | 26   | 1.4                |
| 2.0                    | ø8                  | VSF08 | 115             | 42.5 | 78  | 36   | 32   | 2.3                |
| 3.2                    | ø10                 | VSF10 | 137             | 55   | 89  | 43   | 39   | 4.2                |
| 5.2                    | ø13                 | VSF13 | 163             | 70   | 101 | 50.5 | 45   | 6.7                |
| 8.0                    | ø16                 | VSF16 | 195             | 85   | 120 | 60   | 50   | 10.0               |

# Clevis Type [Fittings Components]

[Clevis type]  
Assembled

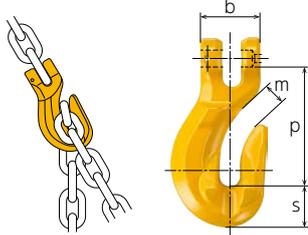
Single Leg Sling/Double Leg Sling

P22 ▶

Triple Leg Sling/Quadruple Leg Sling

P23 ▶

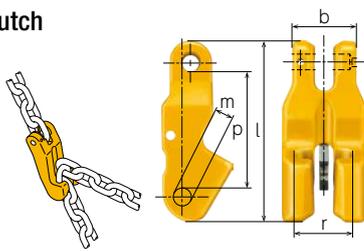
## Grab Hook VGG



•In the case of using the Grab Hook VGG in combination with the chain, the working load limits will become 70% of the values in the table at right.

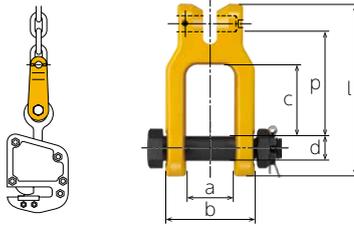
| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |      |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|------|------|------|--------------------|
|                        |                     |       | p               | b    | m    | s    |                    |
| 1.1                    | ø6                  | VGG06 | 50.5            | 27   | 8.5  | 17.6 | 0.24               |
| 1.5                    | ø7                  | VGG07 | 65.9            | 36.8 | 9.9  | 23.5 | 0.63               |
| 2.0                    | ø8                  | VGG08 | 64.9            |      |      |      |                    |
| 3.2                    | ø10                 | VGG10 | 83.1            | 42   | 14.2 | 29.4 | 1.1                |
| 5.2                    | ø13                 | VGG13 | 106.1           | 54   | 16.7 | 39.2 | 2.2                |
| 8.0                    | ø16                 | VGG16 | 128.9           | 67   | 21.9 | 45.8 | 4.0                |
| 12.5                   | ø20                 | VGG20 | 162.1           | 91   | 27.4 | 57.4 | 7.7                |

## Shortening Clutch VWW



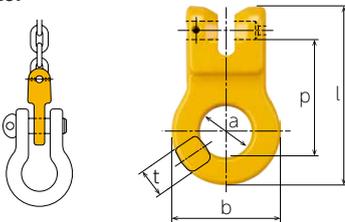
| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |      |      |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|------|------|------|------|--------------------|
|                        |                     |       | p               | b    | m    | r    | l    |                    |
| 1.1                    | ø6                  | VWW06 | 47              | 27   | 7.5  | 24   | 76   | 0.27               |
| 1.5                    | ø7                  | VWW07 | 63              | 36.5 | 8.8  | 27.5 | 99.5 | 0.6                |
| 2.0                    | ø8                  | VWW08 | 62              |      |      |      |      |                    |
| 3.2                    | ø10                 | VWW10 | 78              | 44   | 12.5 | 39   | 125  | 1.2                |
| 5.2                    | ø13                 | VWW13 | 102             | 57   | 16.5 | 50   | 163  | 2.7                |
| 8.0                    | ø16                 | VWW16 | 125             | 70   | 20   | 62.5 | 200  | 4.7                |

## Shackle VN



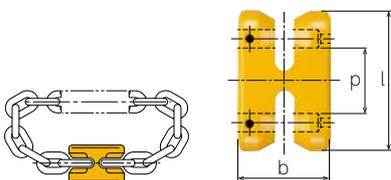
| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |      |     |      |    |       | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|------|-----|------|----|-------|--------------------|
|                        |                     |        | p               | a    | b   | c    | d  | l     |                    |
| 1.1                    | ø6                  | VN2060 | 65              | 26.5 | 50  | 43   | 14 | 103   | 0.53               |
| 1.5                    | ø7                  | VN2070 | 70.5            | 30.5 | 60  | 47.5 | 17 | 116   | 0.89               |
| 2.0                    | ø8                  | VN2080 | 70              |      |     |      |    |       |                    |
| 3.2                    | ø10                 | VN2100 | 79.5            | 34   | 68  | 53   | 20 | 135.5 | 1.5                |
| 5.2                    | ø13                 | VN2130 | 99.5            | 43   | 85  | 67   | 25 | 169   | 2.7                |
| 8.0                    | ø16                 | VN2160 | 124.5           | 54   | 106 | 84   | 32 | 214   | 5.8                |
| 12.5                   | ø20                 | VN2200 | 160.5           | 68.5 | 135 | 105  | 40 | 271.5 | 11.4               |

## Single Connector VC



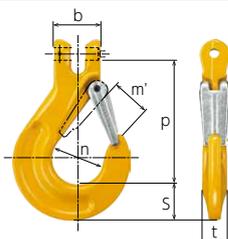
| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |      |     |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|------|-----|------|------|--------------------|
|                        |                     |        | p               | a    | b   | l    | t    |                    |
| 1.1                    | ø6                  | VC2060 | 50              | 18.5 | 45  | 77.5 | 13.5 | 0.28               |
| 1.5                    | ø7                  | VC2070 | 65              | 26.5 | 60  | 99.5 | 17   | 0.51               |
| 2.0                    | ø8                  | VC2080 | 64.5            |      |     |      |      |                    |
| 3.2                    | ø10                 | VC2100 | 79              | 32.5 | 74  | 123  | 21.5 | 1.0                |
| 5.2                    | ø13                 | VC2130 | 99.5            | 42   | 94  | 154  | 26.5 | 2.0                |
| 8.0                    | ø16                 | VC2160 | 124             | 54   | 120 | 194  | 33.5 | 4.2                |
| 12.5                   | ø20                 | VC2200 | 159             | 67.5 | 150 | 246  | 42   | 8.3                |

## Endless Connector VR



| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |     |     | Mass (Weight) (kg) |
|------------------------|---------------------|--------|-----------------|-----|-----|--------------------|
|                        |                     |        | p               | b   | l   |                    |
| 1.1                    | ø6                  | VR2060 | 25.5            | 38  | 55  | 0.24               |
| 1.5                    | ø7                  | VR2070 | 31              | 44  | 67  | 0.41               |
| 2.0                    | ø8                  | VR2080 | 30              |     |     | 0.42               |
| 3.2                    | ø10                 | VR2100 | 39              | 54  | 86  | 0.83               |
| 5.2                    | ø13                 | VR2130 | 50              | 66  | 108 | 1.6                |
| 8.0                    | ø16                 | VR2160 | 64              | 84  | 139 | 3.5                |
| 12.5                   | ø20                 | VR2200 | 80              | 102 | 172 | 6.4                |

## Sling Hook (Small Hook) VSR VSL (VSL2)

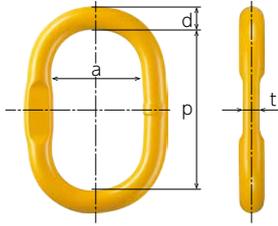


| Working Load Limit (t) | Chain Diameter (mm) | Code    | Dimensions (mm) |      |    |    |    |      | Mass (Weight) (kg) |
|------------------------|---------------------|---------|-----------------|------|----|----|----|------|--------------------|
|                        |                     |         | p               | b    | n  | m' | s  | t    |                    |
| 1.1                    | ø6                  | VSR06   | 69              | 26.5 | 30 | 19 | 21 | 16.5 | 0.28               |
| 1.5                    | ø7                  | VSL2070 | 95              | 36   | 39 | 25 | 28 | 19   | 0.55               |
| 3.2                    | ø10                 | VSL2100 | 110             | 44.5 | 47 | 29 | 33 | 25   | 1.0                |
| 5.2                    | ø13                 | VSL2130 | 136             | 51   | 58 | 37 | 41 | 30   | 1.7                |
| 8.0                    | ø16                 | VSL2160 | 155             | 67   | 64 | 43 | 49 | 37.5 | 3.2                |

# Eye Type [Fittings Components]

- When assembling the fittings components, assemble them correctly according to the separate “Assembly Manual”.
- The specifications of eye-type fittings components are shown in the tables below. For the link chain specification table, refer to page 6.
- In addition to using the eye-type components by assembling them as KITO CHAIN SLING 100 products, they can also be used for many other purposes.
- Each fitting is not provided with a Hi-coupling HC. This should be ordered at the same time when placing the order for the fitting.

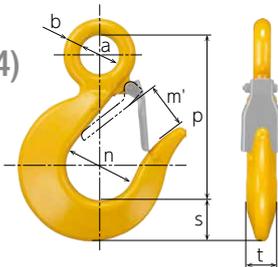
## Master Link HMM



| Working Load Limit (t) | Chain Diameter (mm) |     |     | Code    | Dimensions (mm) |     |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-----|-----|---------|-----------------|-----|------|------|--------------------|
|                        | S                   | D   | T,Q |         | p               | a   | d    | t    |                    |
| 1.1                    | ø6                  | —   | —   | HMM0706 | 110             | 60  | 13.5 | 12   | 0.34               |
| 1.7                    | ø7                  | ø6  | —   |         |                 |     |      |      |                    |
| 2.4                    | ø8                  | ø7  | ø6  | HMM0807 |                 |     | 16   | 13.5 | 0.53               |
| 3.2                    | ø10                 | ø8  | ø7  | HMM1008 | 135             | 75  | 19   | 15.5 | 0.92               |
| 5.2                    | ø13                 | ø10 | ø8  | HMM1310 | 160             | 90  | 23   | 19.5 | 1.6                |
| 8.0                    | ø16                 | ø13 | ø10 | HMM1613 | 180             | 100 | 27   | 21.5 | 2.5                |
| 12.5                   | ø20                 | ø16 | ø13 | HMM2016 | 200             | 110 | 33   | 27.5 | 4.2                |
| 20.0                   | —                   | ø20 | ø16 | HMM2220 | 275             | 150 | 38   | 31.5 | 7.5                |

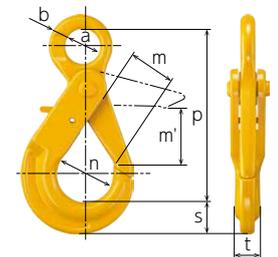
•The chain diameters S, D and TQ show the number of sling legs. S: Single leg slings, D: Double leg slings, TQ: Triple and quadruple leg slings

## Sling Hook HTL (HTL4)



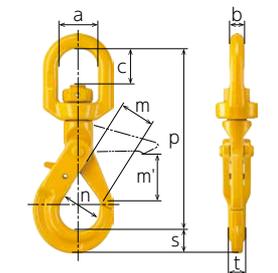
| Working Load Limit (t) | Chain Diameter (mm) | Code    | Dimensions (mm) |      |      |    |    |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|---------|-----------------|------|------|----|----|------|------|--------------------|
|                        |                     |         | p               | a    | b    | n  | m' | s    | t    |                    |
| 1.1                    | ø6                  | HTL4060 | 100             | 23   | 11   | 45 | 26 | 24.5 | 18   | 0.49               |
| 1.5                    | ø7                  | HTL4080 | 120             | 27   | 13.5 | 50 | 31 | 30   | 21.8 | 0.84               |
| 2.0                    | ø8                  |         |                 |      |      |    |    |      |      |                    |
| 3.2                    | ø10                 | HTL4100 | 140             | 32.5 | 17   | 56 | 39 | 37.5 | 27.2 | 1.6                |
| 5.2                    | ø13                 | HTL4130 | 171             | 38   | 21.5 | 63 | 46 | 47.5 | 34.5 | 3.0                |
| 8.0                    | ø16                 | HTL4160 | 200             | 46   | 26.5 | 75 | 53 | 60   | 45   | 5.7                |
| 12.5                   | ø20                 | HTL4200 | 250             | 54   | 34   | 95 | 68 | 75   | 56   | 10.4               |

## Self Locking Hook HJJ



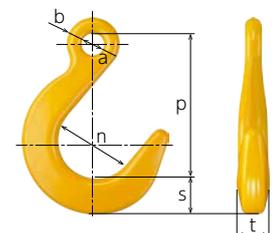
| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |      |    |      |      |      |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|------|----|------|------|------|------|------|--------------------|
|                        |                     |       | p               | a    | b  | n    | m    | m'   | s    | t    |                    |
| 1.1                    | ø6                  | HJJ06 | 110             | 21   | 12 | 35   | 28   | 28   | 20.5 | 16   | 0.56               |
| 1.5                    | ø7                  | HJJ08 | 136             | 27   | 12 | 43.5 | 34   | 34   | 26   | 20   | 1.0                |
| 2.0                    | ø8                  |       |                 |      |    |      |      |      |      |      |                    |
| 3.2                    | ø10                 | HJJ10 | 168.5           | 34.5 | 15 | 56   | 45   | 45   | 30   | 24.5 | 1.7                |
| 5.2                    | ø13                 | HJJ13 | 205             | 40   | 20 | 69   | 51.5 | 51.5 | 40   | 34.5 | 3.4                |
| 8.0                    | ø16                 | HJJ16 | 251.5           | 50   | 27 | 80   | 60   | 60   | 50   | 36.5 | 6.4                |

## Swivel Hook HJK



| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |    |      |      |      |      |      |      | Mass (Weight) (kg) |      |
|------------------------|---------------------|-------|-----------------|----|------|------|------|------|------|------|--------------------|------|
|                        |                     |       | p               | a  | b    | c    | n    | m    | m'   | s    |                    | t    |
| 1.1                    | ø6                  | HJK06 | 160             | 35 | 13   | 32   | 35   | 28   | 28   | 20.5 | 16                 | 0.84 |
| 1.5                    | ø7                  | HJK08 | 181             | 35 | 13   | 32   | 43.5 | 34   | 34   | 26   | 20                 | 1.2  |
| 2.0                    | ø8                  |       |                 |    |      |      |      |      |      |      |                    |      |
| 3.2                    | ø10                 | HJK10 | 218.5           | 42 | 16   | 39   | 56   | 45   | 45   | 30   | 24.5               | 2.1  |
| 5.2                    | ø13                 | HJK13 | 267.5           | 50 | 20.5 | 45.5 | 69   | 51.5 | 51.5 | 40   | 34.5               | 4.2  |

## Foundry Hook HSF

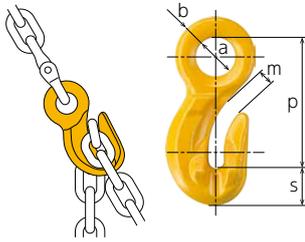


| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |    |      |     |    |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|----|------|-----|----|------|--------------------|
|                        |                     |       | p               | a  | b    | n   | s  | t    |                    |
| 1.1                    | ø6                  | HSF06 | 102             | 15 | 11   | 53  | 26 | 21.5 | 0.65               |
| 1.5                    | ø7                  | HSF08 | 123             | 18 | 13.5 | 63  | 31 | 26   | 1.2                |
| 2.0                    | ø8                  |       |                 |    |      |     |    |      |                    |
| 3.2                    | ø10                 | HSF10 | 149             | 22 | 16   | 77  | 36 | 32   | 2.1                |
| 5.2                    | ø13                 | HSF13 | 173.5           | 27 | 19   | 88  | 43 | 39   | 3.5                |
| 8.0                    | ø16                 | HSF16 | 205             | 32 | 24   | 100 | 50 | 45   | 5.6                |
| 12.5                   | ø20                 | HSF20 | 237             | 38 | 27   | 115 | 61 | 51   | 8.1                |

# Eye Type [Fittings Components]

|                         |                                      |       |
|-------------------------|--------------------------------------|-------|
| [Eye Type]<br>Assembled | Single Leg Sling/Double Leg Sling    | P22 ▶ |
|                         | Triple Leg Sling/Quadruple Leg Sling | P23 ▶ |

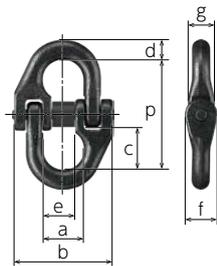
## Grab Hook HGG



| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |    |      |      |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|----|------|------|------|--------------------|
|                        |                     |       | p               | a  | b    | m    | s    |                    |
| 1.1                    | ø6                  | HGG06 | 64              | 18 | 10.3 | 8.5  | 17.6 | 0.24               |
| 1.5                    | ø7                  | HGG08 | 83.1            | 24 | 13.6 | 9.5  | 24.4 | 0.57               |
| 2.0                    | ø8                  |       |                 |    |      |      |      |                    |
| 3.2                    | ø10                 | HGG10 | 106.1           | 31 | 16   | 14.2 | 29.4 | 1.1                |
| 5.2                    | ø13                 | HGG13 | 132             | 38 | 20   | 16.7 | 39.2 | 2.3                |
| 8.0                    | ø16                 | HGG16 | 166.5           | 48 | 27.1 | 21.9 | 46   | 4.2                |
| 12.5                   | ø20                 | HGG20 | 207.5           | 60 | 33   | 27.4 | 57.4 | 8.0                |

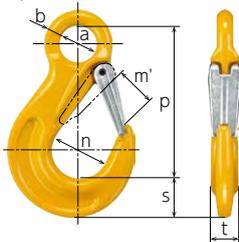
•In the case of using the Grab Hook HGG in combination with the chain, the working load limits will become 70% of the values in the table at right.

## Hi-coupling HC



| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |      |     |      |      |      |    | Mass (Weight) (kg) |      |
|------------------------|---------------------|--------|-----------------|------|-----|------|------|------|----|--------------------|------|
|                        |                     |        | p               | a    | b   | c    | d    | e    | f  |                    | g    |
| 1.1                    | ø6                  | HC3060 | 48              | 16.8 | 45  | 17.5 | 8    | 14   | 14 | 11.2               | 0.1  |
| 1.5                    | ø7                  | HC3070 | 55              | 19.4 | 51  | 19   | 9.4  | 16.8 | 16 | 13.1               | 0.18 |
| 2.0                    | ø8                  | HC3080 | 63              | 22   | 57  | 23   | 10.6 | 17.5 | 18 | 15                 | 0.21 |
| 3.2                    | ø10                 | HC3100 | 75              | 26.5 | 70  | 27   | 13.1 | 22.3 | 22 | 18.7               | 0.42 |
| 5.2                    | ø13                 | HC3130 | 96              | 34   | 89  | 36   | 16.8 | 28.8 | 30 | 24.3               | 0.86 |
| 8.0                    | ø16                 | HC3160 | 118             | 41.5 | 110 | 45   | 20   | 36   | 36 | 30                 | 1.7  |
| 12.5                   | ø20                 | HC3200 | 142             | 52.5 | 136 | 53   | 25   | 45   | 45 | 37.5               | 3.2  |

## Sling Hook (Small Hook) HSR

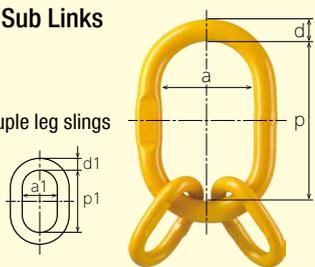


| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |    |    |    |    |    | Mass (Weight) (kg) |      |
|------------------------|---------------------|-------|-----------------|----|----|----|----|----|--------------------|------|
|                        |                     |       | p               | a  | b  | n  | m' | s  |                    | t    |
| 1.1                    | ø6                  | HSR06 | 84.5            | 20 | 10 | 30 | 19 | 21 | 16.5               | 0.36 |

The Master Link with Sub Links is a master link that has sub links attached. It should be used with triple leg slings or quadruple leg slings. Because the working load limits are different from those of the Master Link HMM (page 14), it has exclusive "Slinging Methods and W.L.L. (Working Load Limits)". Please refer to "When Using the Master Link with Sub Links HMF" described on page 8.

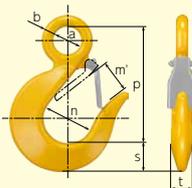
## Master Link with Sub Links HMF

▶For triple and quadruple leg slings



| Working Load Limit (t) | Chain Diameter (mm) | Code  | Dimensions (mm) |     |    |     |    |      | Mass (Weight) (kg) |
|------------------------|---------------------|-------|-----------------|-----|----|-----|----|------|--------------------|
|                        |                     |       | p               | a   | d  | p1  | a1 | d1   |                    |
| 2.8                    | ø6                  | HMF07 | 135             | 75  | 19 | 60  | 38 | 13.5 | 1.4                |
| 3.8                    | ø7                  |       |                 |     |    |     |    |      |                    |
| 5.0                    | ø8                  | HMF08 | 160             | 90  | 23 | 70  | 34 | 16   | 2.4                |
| 8.0                    | ø10                 | HMF10 | 180             | 100 | 27 | 85  | 40 | 20   | 3.9                |
| 13.0                   | ø13                 | HMF13 | 200             | 110 | 33 | 115 | 50 | 23   | 6.6                |
| 20.0                   | ø16                 | HMF16 | 275             | 150 | 38 | 140 | 65 | 27   | 11.5               |
| 32.0                   | ø20                 | HMF20 | 350             | 190 | 50 | 150 | 70 | 33   | 23.0               |

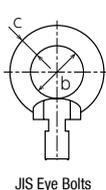
## Sling Hook HTL005



| Working Load Limit (t) | Chain Diameter (mm) | Code   | Dimensions (mm) |    |   |      |    |    | Mass (Weight) (kg) |      |
|------------------------|---------------------|--------|-----------------|----|---|------|----|----|--------------------|------|
|                        |                     |        | p               | a  | b | n    | m' | s  |                    | t    |
| 0.5                    | ø6                  | HTL005 | 84              | 19 | 8 | 35.5 | 22 | 17 | 12.1               | 0.20 |

The HTL005 and HSR06 allow combination with smaller-sized eye bolts than the HTL4060.

| Working Load Limit (t) | Code    | JIS Eye Bolts            |     |     |     |      |     |     |      |
|------------------------|---------|--------------------------|-----|-----|-----|------|-----|-----|------|
|                        |         | JIS Eye Bolts            | M8  | M10 | M12 | M16  | M20 | M24 | M30  |
|                        |         | Thickness c (mm)         | 6.3 | 8   | 10  | 12.5 | 16  | 20  | 25   |
|                        |         | Internal Diameter b (mm) | 20  | 25  | 30  | 35   | 40  | 50  | 60   |
|                        |         | Working Load Limit (kg)  | 80  | 150 | 220 | 450  | 630 | 950 | 1.5t |
| 0.5                    | HTL005  | Combination              | —   | ○   | ○   | ○    | —   | —   | —    |
|                        | HSR06   |                          | —   | —   | ○   | ○    | ○   | —   | —    |
| 1.1                    | HTL4060 |                          | —   | —   | —   | ○    | ○   | ○   | ○    |



The HTL005 should be used in combination with ø6mm chains and fittings components.

| Slinging Method           | Single Leg | Double Legs | Triple and Quadruple Legs |
|---------------------------|------------|-------------|---------------------------|
| 6mm chain                 |            |             |                           |
| Hi-coupling HC3060        |            |             |                           |
| Sling hook HTL005         |            |             |                           |
| Angle of Loading $\theta$ | —          | 60° 90°     | 120° 60° 90° 120°         |
| Working Load Limit (t)    | 0.5        | 0.8 0.71    | 0.5 1.25 1.0 0.71         |



KITO CHAIN SLING 100 [S5 Series]

# Assembled

Clevis-type and eye-type fittings components are available for KITO CHAIN SLING 100 products.  
Selection can be made from among a wide range of types to match the usage purposes.



# Assembled [how to understand each codes]

The codes of the KITO Assembly Sets are configured from the three types described below.

| 1 Set Product Classification |   | 2 Top Fitting   | 3 Bottom Fitting  |
|------------------------------|---|---|---|
| <b>S</b>                     | Single leg sling<br>Single chain suspension       | <b>VE</b> Clevis Master Link VE<br><b>VD</b> Clevis Master Link VD      | <b>HGG</b> Grab Hook HGG<br><b>HJJ</b> Self Locking Hook HJJ          |
| <b>D</b>                     | Double leg sling<br>Double chain suspension       | <b>HMM</b> Master Link HMM<br><b>HMG</b> Master Link HMG                | <b>HJK</b> Swivel Hook HJK<br><b>HMM</b> Master Link HMM              |
| <b>T</b>                     | Triple leg sling<br>Triple chain suspension       | <b>HMH</b> Master Link HMH<br><b>HMF</b> Master Link with Sub Links HMF | <b>HMG</b> Master Link HMG<br><b>HMH</b> Master Link HMH              |
| <b>Q</b>                     | Quadruple leg sling<br>Quadruple chain suspension | <b>VSL4</b> Sling Hook VSL (VSL4)<br><b>VSR</b> Sling Hook VSR06        | <b>HSF</b> Foundry Hook HSF<br><b>HTL4</b> Sling Hook HTL (HTL4)      |
|                              |   | <b>VSL2</b> Sling Hook VSL (VSL2)<br><b>HTL4</b> Sling Hook HTL (HTL4)  | <b>HSR</b> Sling Hook HSR06<br><b>VC</b> Single Connector VC          |
|                              |   | <b>HSR</b> Sling Hook HSR06<br><b>VWW</b> Shortening Clutch VWW         | <b>VE</b> Clevis Master Link VE<br><b>VSF</b> Foundry Hook VSF        |
|                              |   |   | <b>VGG</b> Grab Hook VGG<br><b>VN</b> Shackle VN                      |
|                              |   |   | <b>VSL4</b> Sling Hook VSL (VSL4)<br><b>VSR</b> Sling Hook VSR06      |
|                              |   |   | <b>VSL2</b> Sling Hook VSL (VSL2)<br><b>VWW</b> Shortening Clutch VWW |
|                              |   |   | <b>00</b> Endless   |

•This shows the basic system of Assembled.

## [Example] Clevis Type

|                     |            |             |               |   |
|---------------------|------------|-------------|---------------|---|
| Single leg sling    | 1 <b>S</b> | 2 <b>VE</b> | 3 <b>VSF</b>  |  |
| Double leg sling    | 1 <b>D</b> | 2 <b>VD</b> | 3 <b>VC</b>   |  |
| Triple leg sling    | 1 <b>T</b> | 2 <b>VD</b> | 3 <b>VN</b>   |  |
| Quadruple leg sling | 1 <b>Q</b> | 2 <b>VD</b> | 3 <b>VSL4</b> |  |

•A combination of a clevis type of top fitting and an eye type of bottom fitting is also available.

## [Example] Eye Type

|                     |            |              |               |   |
|---------------------|------------|--------------|---------------|---|
| Single leg sling    | 1 <b>S</b> | 2 <b>HMM</b> | 3 <b>HTL4</b> |  |
| Double leg sling    | 1 <b>D</b> | 2 <b>HMM</b> | 3 <b>HSF</b>  |  |
| Triple leg sling    | 1 <b>T</b> | 2 <b>HMM</b> | 3 <b>HJK</b>  |  |
| Quadruple leg sling | 1 <b>Q</b> | 2 <b>HMM</b> | 3 <b>HJJ</b>  |  |

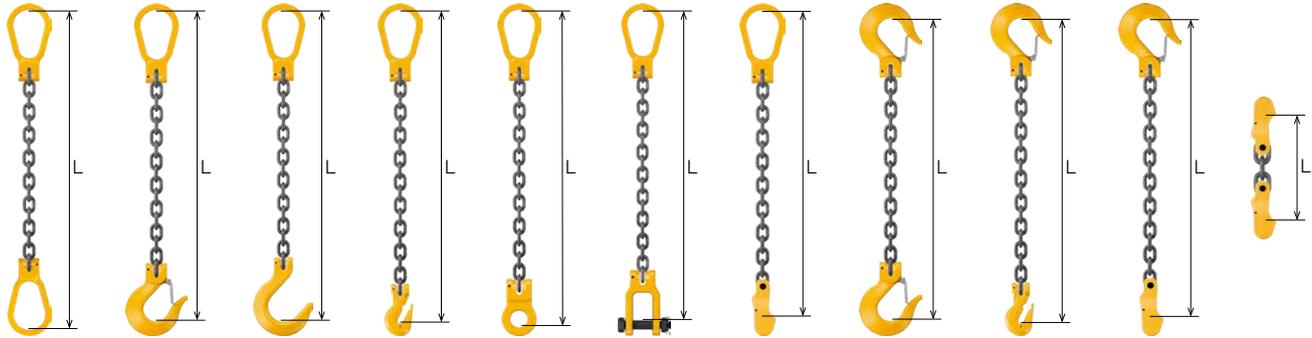
•A combination of an eye type of top fitting and a clevis type of bottom fitting is also available.

# Clevis Type [Assembled] • Single Leg Sling • Double Leg Sling

The KITO Chain Sling 100 offers a wide range of types of Assembled, from single leg slings to quadruple leg slings, to realize selections that match the usage purposes. Further, since the assembly is extremely simple to carry out, link chains and fittings can be prepared as components in factories and workplaces so that they can be assembled for use whenever necessary to match the usage purpose.

- For slinging methods that have a "\*" mark, in situations where the chain is used by hooking on a grab hook (in order to adjust the length, etc.) the working load limits will become 70% of the values shown in the table below. For more details, refer to "Table of Lifting and Working Load Limits" on page 8.
- Reaches (dimensions L) other than the values described in the table can also be supported, so please contact KITO for more information.
- The photographs of the Assembled show images of the combinations. The actual number of chain links will differ according to the dimension L, so contact KITO for more information.

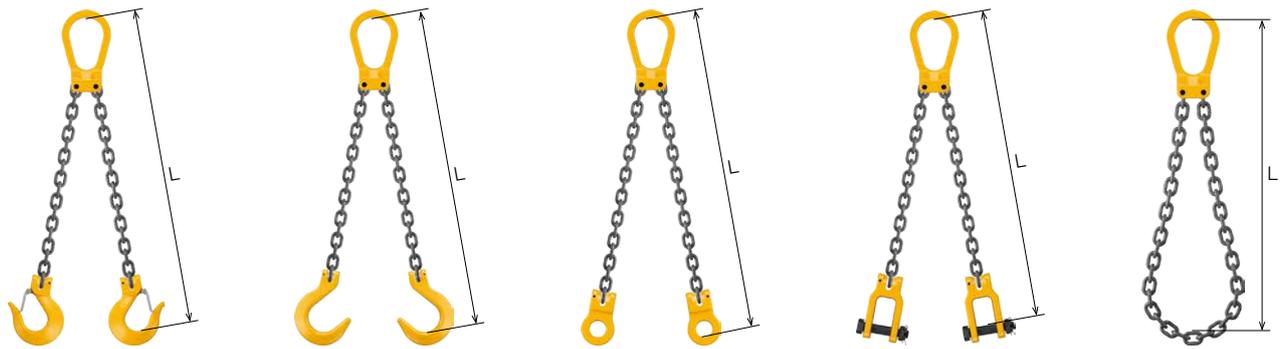
## Clevis Type Single Leg Sling



S-VE-VE S-VE-VSL4 S-VE-VSF S-VE-VGG\* S-VE-VC S-VE-VN S-VE-VWW S-VSL4-VSL4 S-VSL4-VGG\* S-VSL4-VWW S-VWW-VWW

| Working Load Limit (t) | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code    |           |          |           |         |         |          |             |             |            |           |      |      |
|------------------------|--|------------------------------------|---------|-----------|----------|-----------|---------|---------|----------|-------------|-------------|------------|-----------|------|------|
|                        |  |                                    | S-VE-VE | S-VE-VSL4 | S-VE-VSF | S-VE-VGG* | S-VE-VC | S-VE-VN | S-VE-VWW | S-VSL4-VSL4 | S-VSL4-VGG* | S-VSL4-VWW | S-VWW-VWW |      |      |
| 1.1                    | ø6(x1)                                   | Reach: L                           | 1.5     | 1.5       | 1.5      | 1.5       | 1.5     | 1.5     | 1.5      | 1.5         | 1.5         | 1.5        | 1.5       | 1.5  | 0.14 |
|                        |  | Mass (Weight) of Kit               | 1.8     | 2.0       | 2.2      | 1.8       | 1.8     | 2.0     | 1.8      | 2.0         | 2.2         | 2.0        | 2.0       | 2.0  | 0.6  |
| 1.5                    | ø7(x1)                                   | Reach: L                           | 1.5     | 1.5       | 1.5      | 1.5       | 1.5     | 1.5     | 1.5      | 1.5         | 1.5         | 1.5        | 1.5       | 1.5  | 0.17 |
|                        |  | Mass (Weight) of Kit               | 2.7     | 3.0       | 3.5      | 2.8       | 2.7     | 3.0     | 2.8      | 3.4         | 3.4         | 3.1        | 3.2       | 3.2  | 1.3  |
| 2.0                    | ø8(x1)                                   | Reach: L                           | 1.5     | 1.5       | 1.5      | 1.5       | 1.5     | 1.5     | 1.5      | 1.5         | 1.5         | 1.5        | 1.5       | 1.5  | 0.18 |
|                        |  | Mass (Weight) of Kit               | 3.1     | 3.4       | 3.9      | 3.2       | 3.1     | 3.4     | 3.2      | 3.8         | 3.8         | 3.5        | 3.6       | 3.6  | 1.4  |
| 3.2                    | ø10(x1)                                  | Reach: L                           | 1.5     | 1.5       | 1.5      | 1.5       | 1.5     | 1.5     | 1.5      | 1.5         | 1.5         | 1.5        | 1.5       | 1.5  | 0.24 |
|                        |  | Mass (Weight) of Kit               | 5.0     | 5.7       | 6.2      | 5.3       | 5.0     | 5.5     | 5.3      | 6.3         | 6.3         | 6.0        | 6.1       | 6.1  | 2.6  |
| 5.2                    | ø13(x1)                                  | Reach: L                           | 2.0     | 2.0       | 2.0      | 2.0       | 2.0     | 2.0     | 2.0      | 2.0         | 2.0         | 2.0        | 2.0       | 2.0  | 0.29 |
|                        |  | Mass (Weight) of Kit               | 10.8    | 12.4      | 12.8     | 11.1      | 10.9    | 11.6    | 11.8     | 13.7        | 13.7        | 12.4       | 13.4      | 13.4 | 5.9  |
| 8.0                    | ø16(x1)                                  | Reach: L                           | 2.5     | 2.5       | 2.5      | 2.5       | 2.5     | 2.5     | 2.5      | 2.5         | 2.5         | 2.5        | 2.5       | 2.5  | 0.35 |
|                        |  | Mass (Weight) of Kit               | 21.3    | 24.0      | 23.7     | 21.5      | 21.7    | 23.3    | 22.0     | 27.2        | 27.2        | 20.2       | 25.8      | 25.8 | 10.3 |
| 12.5                   | ø20(x1)                                  | Reach: L                           | 3.0     | 3.0       | —        | 3.0       | 3.0     | 3.0     | —        | 3.0         | —           | 3.0        | —         | —    | —    |
|                        |  | Mass (Weight) of Kit               | 41.6    | 44.9      | —        | 41.9      | 42.5    | 45.6    | —        | 49.3        | —           | 38.5       | —         | —    | —    |

## Clevis Type Double Leg Sling

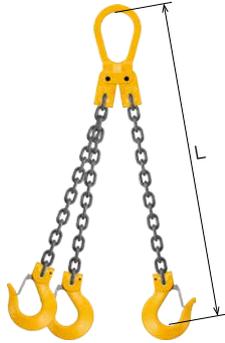


D-VD-VSL4 D-VD-VSF D-VD-VC D-VD-VN D-VD-00

| Working Load Limit (t) θ=60° | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code      |          |         |         |         |
|------------------------------|--|------------------------------------|-----------|----------|---------|---------|---------|
|                              |  |                                    | D-VD-VSL4 | D-VD-VSF | D-VD-VC | D-VD-VN | D-VD-00 |
| 1.7                          | ø6(x2)                                   | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|                              |  | Mass (Weight) of Kit               | 4.0       | 4.2      | 3.5     | 4.0     | 3.0     |
| 2.4                          | ø7(x2)                                   | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|                              |  | Mass (Weight) of Kit               | 5.9       | 6.8      | 5.1     | 5.9     | 4.3     |
| 3.2                          | ø8(x2)                                   | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|                              |  | Mass (Weight) of Kit               | 6.8       | 7.5      | 5.9     | 6.7     | 5.1     |
| 5.1                          | ø10(x2)                                  | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|                              |  | Mass (Weight) of Kit               | 11.2      | 12.4     | 10.1    | 11.1    | 8.3     |
| 8.0                          | ø13(x2)                                  | Reach: L                           | 2.0       | 2.0      | 2.0     | 2.0     | 2.0     |
|                              |  | Mass (Weight) of Kit               | 24.2      | 25.6     | 21.8    | 23.2    | 18.2    |
| 12.5                         | ø16(x2)                                  | Reach: L                           | 2.5       | 2.5      | 2.5     | 2.5     | 2.5     |
|                              |  | Mass (Weight) of Kit               | 46.8      | 46.2     | 42.3    | 45.5    | 34.7    |
| 20.0                         | ø20(x2)                                  | Reach: L                           | 3.0       | —        | 3.0     | 3.0     | 3.0     |
|                              |  | Mass (Weight) of Kit               | 86.4      | —        | 81.7    | 87.9    | 66.8    |

# Clevis Type [Assembled] • Triple Leg Sling • Quadruple Leg Sling

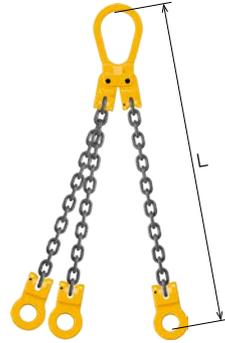
## Clevis Type Triple Leg Sling



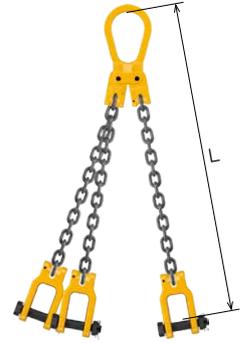
T-VD-VSL4



T-VD-VSF



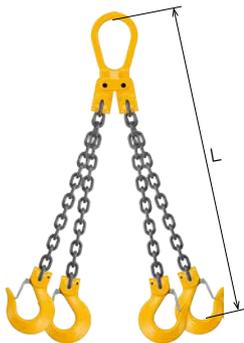
T-VD-VC



T-VD-VN

| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code      |          |         |         |
|--|--|------------------------------------|-----------|----------|---------|---------|
|  |  |                                    | T-VD-VSL4 | T-VD-VSF | T-VD-VC | T-VD-VN |
| 2.4                                      | $\phi 6(x3)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 6.5       | 6.8      | 5.7     | 6.5     |
| 3.2                                      | $\phi 7(x3)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 8.9       | 10.3     | 7.8     | 8.9     |
| 5.0                                      | $\phi 8(x3)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 11.2      | 12.4     | 10.1    | 11.1    |
| 8.0                                      | $\phi 10(x3)$                            | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 18.9      | 20.7     | 17.2    | 18.7    |
| 12.5                                     | $\phi 13(x3)$                            | Reach: L                           | 2.0       | 2.0      | 2.0     | 2.0     |
|  |  | Mass (Weight) of Kit               | 40.6      | 42.7     | 36.1    | 38.2    |
| 20.0                                     | $\phi 16(x3)$                            | Reach: L                           | 2.5       | 2.5      | 2.5     | 2.5     |
|  |  | Mass (Weight) of Kit               | 77.5      | 76.6     | 70.8    | 75.6    |
| 32.0                                     | $\phi 20(x3)$                            | Reach: L                           | 3.0       | —        | 3.0     | 3.0     |
|  |  | Mass (Weight) of Kit               | 146.2     | —        | 139.2   | 148.5   |

## Clevis Type Quadruple Leg Sling



Q-VD-VSL4



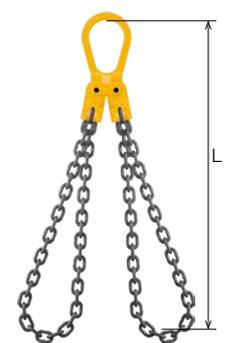
Q-VD-VSF



Q-VD-VC



Q-VD-VN



Q-VD-00

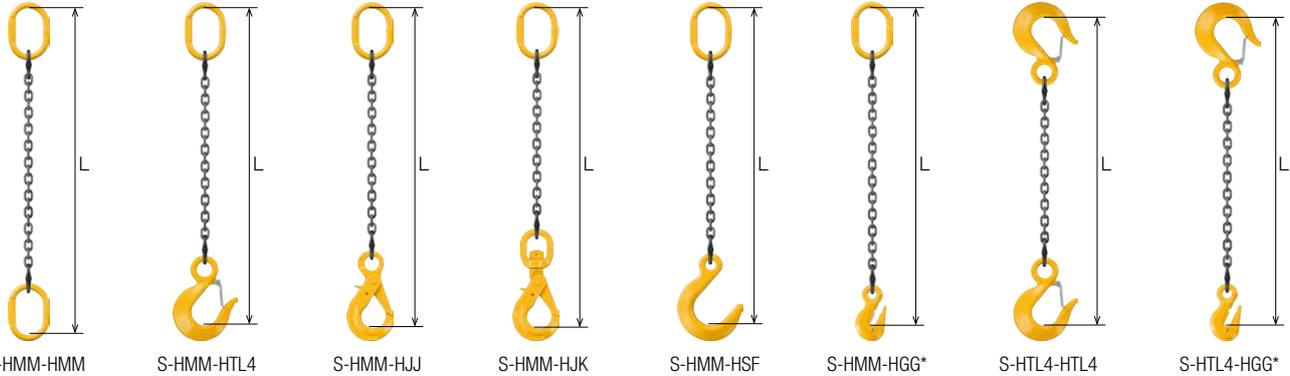
| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code      |          |         |         |         |
|--|--|------------------------------------|-----------|----------|---------|---------|---------|
|  |  |                                    | Q-VD-VSL4 | Q-VD-VSF | Q-VD-VC | Q-VD-VN | Q-VD-00 |
| 2.4                                      | $\phi 6(x4)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 8.1       | 8.6      | 7.1     | 8.1     | 6.2     |
| 3.2                                      | $\phi 7(x4)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 11.4      | 13.2     | 9.9     | 11.4    | 8.1     |
| 5.0                                      | $\phi 8(x4)$                             | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 14.1      | 15.7     | 12.7    | 13.9    | 10.8    |
| 8.0                                      | $\phi 10(x4)$                            | Reach: L                           | 1.5       | 1.5      | 1.5     | 1.5     | 1.5     |
|  |  | Mass (Weight) of Kit               | 23.6      | 26.0     | 21.4    | 23.4    | 17.8    |
| 12.5                                     | $\phi 13(x4)$                            | Reach: L                           | 2.0       | 2.0      | 2.0     | 2.0     | 2.0     |
|  |  | Mass (Weight) of Kit               | 51.0      | 53.8     | 45.0    | 47.8    | 38.4    |
| 20.0                                     | $\phi 16(x4)$                            | Reach: L                           | 2.5       | 2.5      | 2.5     | 2.5     | 2.5     |
|  |  | Mass (Weight) of Kit               | 97.0      | 95.8     | 88.0    | 94.4    | 72.9    |
| 32.0                                     | $\phi 20(x4)$                            | Reach: L                           | 3.0       | —        | 3.0     | 3.0     | 3.0     |
|  |  | Mass (Weight) of Kit               | 183.6     | —        | 174.1   | 186.5   | 144.3   |

# Eye Type [Assembled] • Single Leg Sling • Double Leg Sling

The KITO Chain Sling 100 offers a wide range of types of Assembled, from single leg slings to quadruple leg slings, to realize selections that match the usage purposes. Further, since the assembly is extremely simple to carry out, link chains and fittings can be prepared as components in factories and work places so that they can be assembled for use whenever necessary to match the usage purpose.

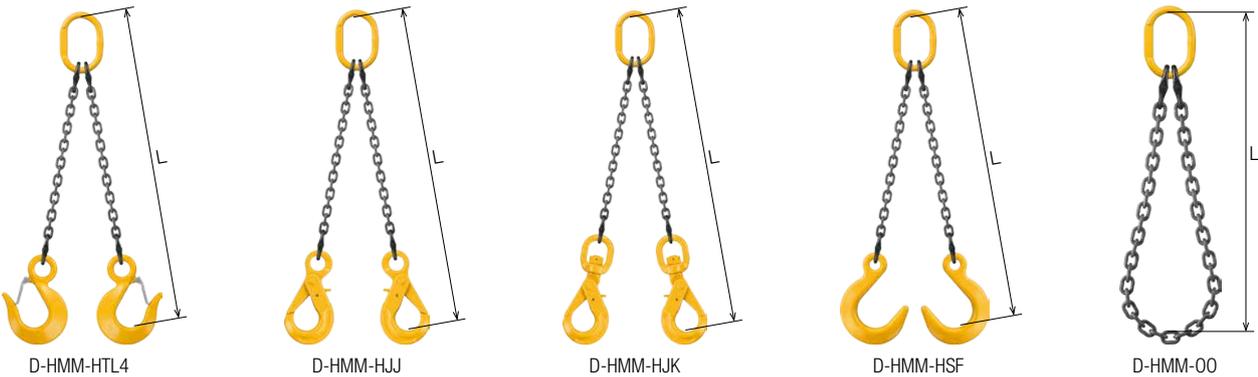
- For slinging methods that have a "\*" mark, in situations where the chain is used by hooking on a grab hook (in order to adjust the length, etc.) the working load limits will become 70% of the values shown in the table below. For more details, refer to "Table of Lifting and Working Load Limits" on page 8.
- Reaches (dimensions L) other than the values described in the table can also be supported, so please contact KITO for more information.
- The photographs of the Assembled show images of the combinations. The actual number of chain links will differ according to the dimension L, so contact KITO for more information.

## Eye Type Single Leg Sling



| Working Load Limit (t) | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code      |            |           |           |           |            |             |             |     |
|------------------------|--|------------------------------------|-----------|------------|-----------|-----------|-----------|------------|-------------|-------------|-----|
|                        |  |                                    | S-HMM-HMM | S-HMM-HTL4 | S-HMM-HJJ | S-HMM-HJK | S-HMM-HSF | S-HMM-HGG* | S-HTL4-HTL4 | S-HTL4-HGG* |     |
| 1.1                    | ø6(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5        | 1.5         | 1.5         | 1.5 |
|                        |  | Mass (Weight) of Kit               | 1.9       | 2.0        | 2.1       | 2.3       | 2.2       | 1.8        | 2.2         | 2.0         |     |
| 1.5                    | ø7(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5        | 1.5         | 1.5         | 1.5 |
|                        |  | Mass (Weight) of Kit               | 2.4       | 2.9        | 3.0       | 3.2       | 3.3       | 2.6        | 3.4         | 3.1         |     |
| 2.0                    | ø8(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5        | 1.5         | 1.5         | 1.5 |
|                        |  | Mass (Weight) of Kit               | 3.2       | 3.5        | 3.6       | 3.8       | 3.8       | 3.3        | 3.8         | 3.5         |     |
| 3.2                    | ø10(x1)                                  | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5        | 1.5         | 1.5         | 1.5 |
|                        |  | Mass (Weight) of Kit               | 5.2       | 5.9        | 5.8       | 6.2       | 6.4       | 5.4        | 6.5         | 6.0         |     |
| 5.2                    | ø13(x1)                                  | Reach: L                           | 2.0       | 2.0        | 2.0       | 2.0       | 2.0       | 2.0        | 2.0         | 2.0         | 2.0 |
|                        |  | Mass (Weight) of Kit               | 10.7      | 12.1       | 12.3      | 13.1      | 12.6      | 11.4       | 13.5        | 12.8        |     |
| 8.0                    | ø16(x1)                                  | Reach: L                           | 2.5       | 2.5        | 2.5       | —         | 2.5       | 2.5        | 2.5         | 2.5         |     |
|                        |  | Mass (Weight) of Kit               | 20.0      | 23.2       | 23.3      | —         | 23.1      | 22.2       | 25.8        | 25.4        |     |
| 12.5                   | ø20(x1)                                  | Reach: L                           | 3.0       | 3.0        | —         | —         | 3.0       | 3.0        | 3.0         | 3.0         |     |
|                        |  | Mass (Weight) of Kit               | 37.1      | 43.2       | —         | —         | 42.0      | 39.9       | 48.3        | 46.1        |     |

## Eye Type Double Leg Sling

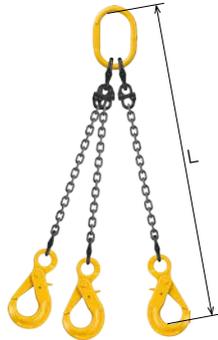


| Working Load Limit (t) θ=60° | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |          |
|------------------------------|--|------------------------------------|------------|-----------|-----------|-----------|----------|
|                              |  |                                    | D-HMM-HTL4 | D-HMM-HJJ | D-HMM-HJK | D-HMM-HSF | D-HMM-00 |
| 1.7                          | ø6(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 3.7        | 3.8       | 4.3       | 4.0       | 3.0      |
| 2.4                          | ø7(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 5.6        | 5.8       | 6.1       | 6.3       | 4.3      |
| 3.2                          | ø8(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 6.6        | 7.0       | 7.2       | 7.4       | 5.5      |
| 5.1                          | ø10(x2)                                  | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 11.1       | 11.3      | 11.9      | 12.1      | 8.9      |
| 8.0                          | ø13(x2)                                  | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       | 2.0      |
|                              |  | Mass (Weight) of Kit               | 23.5       | 23.8      | 24.8      | 24.5      | 19.2     |
| 12.5                         | ø16(x2)                                  | Reach: L                           | 2.5        | 2.5       | —         | 2.5       | 2.5      |
|                              |  | Mass (Weight) of Kit               | 44.4       | 45.8      | —         | 44.2      | 36.6     |
| 20.0                         | ø20(x2)                                  | Reach: L                           | 3.0        | —         | —         | 3.0       | 3.0      |
|                              |  | Mass (Weight) of Kit               | 83.3       | —         | —         | 78.7      | 69.9     |

**Eye Type Triple Leg Sling**



T-HMM-HTL4



T-HMM-HJJ



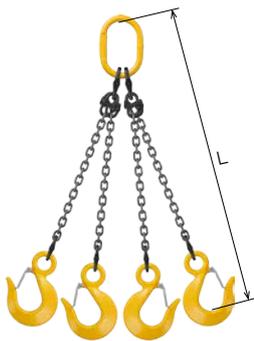
T-HMM-HJK



T-HMM-HSF

| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |
|--|--|------------------------------------|------------|-----------|-----------|-----------|
|  |  |                                    | T-HMM-HTL4 | T-HMM-HJJ | T-HMM-HJK | T-HMM-HSF |
| 2.4                                      | $\phi 6(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 5.8        | 6.0       | 6.7       | 6.3       |
| 3.2                                      | $\phi 7(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 8.6        | 9.1       | 9.5       | 9.7       |
| 5.0                                      | $\phi 8(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 10.7       | 11.0      | 11.4      | 11.8      |
| 8.0                                      | $\phi 10(x3)$                            | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 17.9       | 18.2      | 19.0      | 19.4      |
| 12.5                                     | $\phi 13(x3)$                            | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       |
|  |  | Mass (Weight) of Kit               | 36.9       | 38.1      | 39.6      | 38.4      |
| 20.0                                     | $\phi 16(x3)$                            | Reach: L                           | 2.5        | 2.5       | —         | 2.5       |
|  |  | Mass (Weight) of Kit               | 71.6       | 72.0      | —         | 71.3      |

**Eye Type Quadruple Leg Sling**



Q-HMM-HTL4



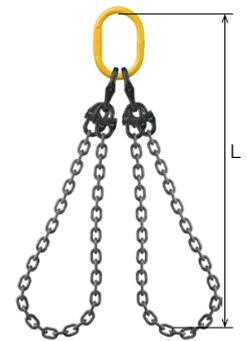
Q-HMM-HJJ



Q-HMM-HJK



Q-HMM-HSF



Q-HMM-00

| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |          |
|--|--|------------------------------------|------------|-----------|-----------|-----------|----------|
|  |  |                                    | Q-HMM-HTL4 | Q-HMM-HJJ | Q-HMM-HJK | Q-HMM-HSF | Q-HMM-00 |
| 2.4                                      | $\phi 6(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|  |  | Mass (Weight) of Kit               | 7.4        | 7.7       | 8.6       | 8.0       | 5.5      |
| 3.2                                      | $\phi 7(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|  |  | Mass (Weight) of Kit               | 11.0       | 11.6      | 12.2      | 12.4      | 7.6      |
| 5.0                                      | $\phi 8(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|  |  | Mass (Weight) of Kit               | 13.4       | 13.8      | 14.3      | 14.9      | 10.1     |
| 8.0                                      | $\phi 10(x4)$                            | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|  |  | Mass (Weight) of Kit               | 22.5       | 22.9      | 23.9      | 24.5      | 16.1     |
| 12.5                                     | $\phi 13(x4)$                            | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       | 2.0      |
|  |  | Mass (Weight) of Kit               | 46.7       | 48.3      | 50.3      | 48.7      | 35.7     |
| 20.0                                     | $\phi 16(x4)$                            | Reach: L                           | 2.5        | 2.5       | —         | 2.5       | 2.5      |
|  |  | Mass (Weight) of Kit               | 90.8       | 91.3      | —         | 90.4      | 67.4     |

# Eye Type (HMF) [Assembled] • Triple Leg Sling • Quadruple Leg Sling

## Master Link with Sub Links HMF

- Reaches (dimensions L) other than the values described in the table can also be supported, so please contact KITO for more information.
- The photographs of the Assembled show images of the combinations.  
The actual number of chain links will differ according to the dimension L, so contact KITO for more information.

### Eye Type Triple Leg Sling



T-HMF-HTL4



T-HMF-HJJ



T-HMF-HJK



T-HMF-HSF

| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |
|--|--|------------------------------------|------------|-----------|-----------|-----------|
|  |  |                                    | T-HMF-HTL4 | T-HMF-HJJ | T-HMF-HJK | T-HMF-HSF |
| 2.8                                      | $\phi 6(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 6.2        | 6.4       | 7.2       | 6.7       |
| 3.8                                      | $\phi 7(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 8.7        | 9.1       | 9.6       | 9.7       |
| 5.0                                      | $\phi 8(x3)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 10.7       | 10.9      | 11.5      | 11.7      |
| 8.0                                      | $\phi 10(x3)$                            | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 17.6       | 17.9      | 18.7      | 19.1      |
| 13.0                                     | $\phi 13(x3)$                            | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       |
|  |  | Mass (Weight) of Kit               | 35.9       | 37.1      | 38.6      | 37.4      |
| 20.0                                     | $\phi 16(x3)$                            | Reach: L                           | 2.5        | 2.5       | —         | 2.5       |
|  |  | Mass (Weight) of Kit               | 69.2       | 69.6      | —         | 68.9      |
| 32.0                                     | $\phi 20(x3)$                            | Reach: L                           | 3.0        | —         | —         | 3.0       |
|  |  | Mass (Weight) of Kit               | 131.6      | —         | —         | 124.7     |

### Eye Type Quadruple Leg Sling



Q-HMF-HTL4



Q-HMF-HJJ



Q-HMF-HJK



Q-HMF-HSF

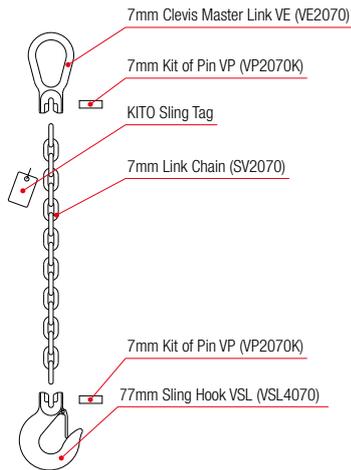
| Working Load Limit (t) $\theta=60^\circ$ | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |
|--|--|------------------------------------|------------|-----------|-----------|-----------|
|  |  |                                    | Q-HMF-HTL4 | Q-HMF-HJJ | Q-HMF-HJK | Q-HMF-HSF |
| 2.8                                      | $\phi 6(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 7.8        | 8.1       | 9.1       | 8.4       |
| 3.8                                      | $\phi 7(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 11.1       | 11.7      | 12.3      | 12.5      |
| 5.0                                      | $\phi 8(x4)$                             | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 13.4       | 13.8      | 14.6      | 14.8      |
| 8.0                                      | $\phi 10(x4)$                            | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       |
|  |  | Mass (Weight) of Kit               | 22.2       | 22.6      | 23.6      | 24.2      |
| 13.0                                     | $\phi 13(x4)$                            | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       |
|  |  | Mass (Weight) of Kit               | 45.7       | 47.3      | 49.3      | 47.7      |
| 20.0                                     | $\phi 16(x4)$                            | Reach: L                           | 2.5        | 2.5       | —         | 2.5       |
|  |  | Mass (Weight) of Kit               | 88.4       | 88.9      | —         | 88.0      |
| 32.0                                     | $\phi 20(x4)$                            | Reach: L                           | 3.0        | —         | —         | 3.0       |
|  |  | Mass (Weight) of Kit               | 167.8      | —         | —         | 158.6     |

# Examples of Components [Clevis Type/Eye Type] •The case of $\phi 7$ mm chains

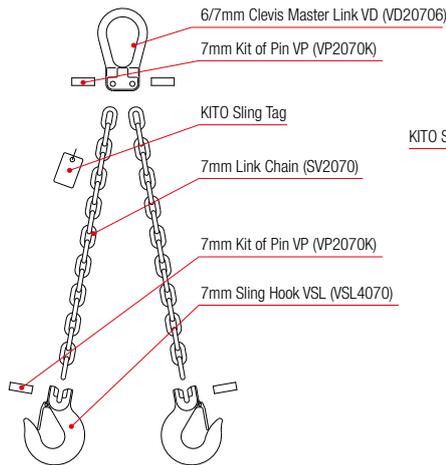
## Clevis Type

### Constituent Components [Kits of Pin are packed together with all the fittings]

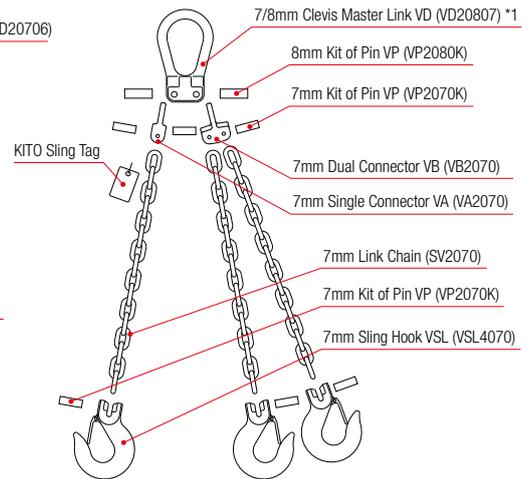
**Single Leg Sling**  
[S-VE-VSL4]



**Double Leg Sling**  
[D-VD-VSL4]



**Triple Leg Sling/Quadruple Leg Sling**  
[T-VD-VSL4/Q-VD-VSL4]

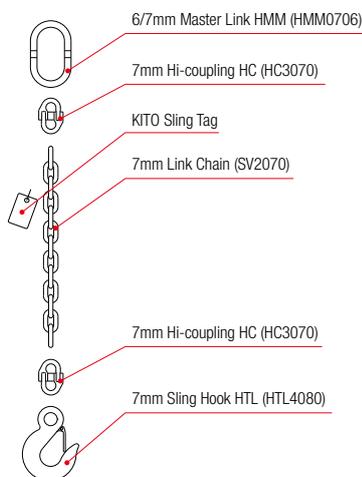


- For single and double leg slings, use components that are appropriate for the chain size that is used.
- \*1: For triple (and quadruple) slings, use Clevis Master Link VD (together with Chain Pins) for chain diameters that are one size higher.

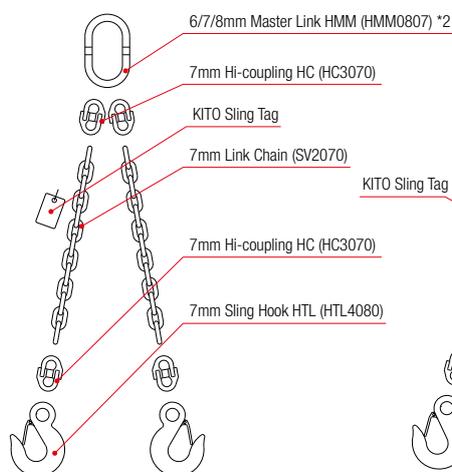
## Eye Type

### Constituent Components

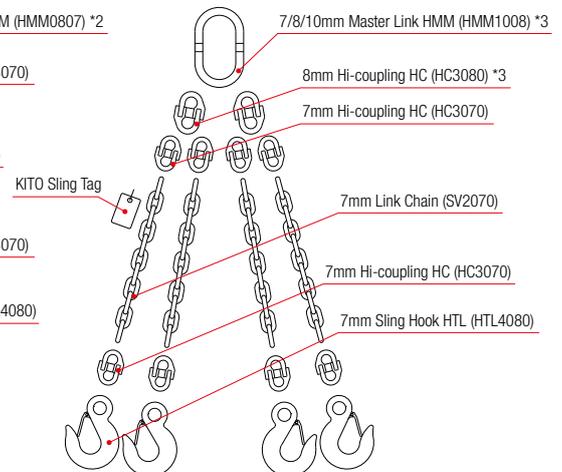
**Single Leg Sling**  
[S-HMM-HTL4]



**Double Leg Sling**  
[D-HMM-HTL4]



**Triple Leg Sling/Quadruple Leg Sling**  
[T-HMM-HTL4/Q-HMM-HTL4]



- For single leg slings, use components that are appropriate for the W.L.L. (Working Load Limit) of the link chain that is used.
- \*2: For double leg slings, only the Master Links should use components for working load limits that are one level higher.
- \*3: For quadruple (and triple) leg slings, use Master Links for working load limits that are two levels higher, and use Hi-couplings (for the Sub Links) for working load limits that are one level higher.
- In the case of using Large Master Link, refer to "Hi-coupling Combinations for Use with the Large Master Link HMG/HMH" on page 25.
- In the case of using Master Link with Sub Links HMF, because the constituent components will be different, contact KITO for more details.

# KITO Large Master Link HMG/HMH

- Large Master Link HMG/HMH Specification Table
- Combinations of Hi-coupling for Use with the Large Master Link HMG/HMH

Working Load Limit

**1.1t** HMG0807

**11.5t** HMH2016

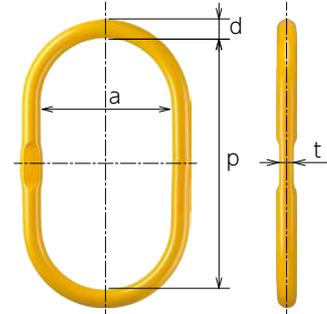
## Large Master Link for Use on Work Sites with Large Cranes!

The link's large width makes it suitable for use with various types of large-sized cranes, tower cranes, and wire rope hoists.



## Large Master Link HMG/HMH Specification Table

| Working Load Limit (t) | Chain Diameter (mm) |     |     | Code    | Dimensions (mm) |     |    |      | Mass (Weight) (kg) |
|------------------------|---------------------|-----|-----|---------|-----------------|-----|----|------|--------------------|
|                        | S                   | D   | T,Q |         | p               | a   | d  | t    |                    |
| 1.1                    | ø6                  | —   | —   | HMG0807 | 225             | 112 | 17 | 14   | 1.2                |
| 1.5                    | ø7                  | —   | —   |         |                 |     |    |      |                    |
| 1.7                    | —                   | ø6  | —   |         |                 |     |    |      |                    |
| 2.0                    | ø8                  | ø7  | ø6  | HMG1008 |                 |     | 20 | 17   | 1.6                |
| 3.2                    | ø10                 | ø8  | ø7  |         |                 |     |    |      |                    |
| 5.0                    | ø13                 | ø10 | ø8  | HMG1310 |                 |     | 23 | 20   | 2.2                |
| 8.0                    | ø16                 | ø13 | ø10 | HMH1613 | 340             | 180 | 36 | 29.5 | 8.1                |
| 11.5                   | ø20                 | ø16 | ø13 | HMH2016 |                 |     |    |      |                    |



•The chain diameters S, D and TQ show the number of sling legs. S: Single leg slings, D: Double leg slings, TQ: Triple and quadruple leg slings

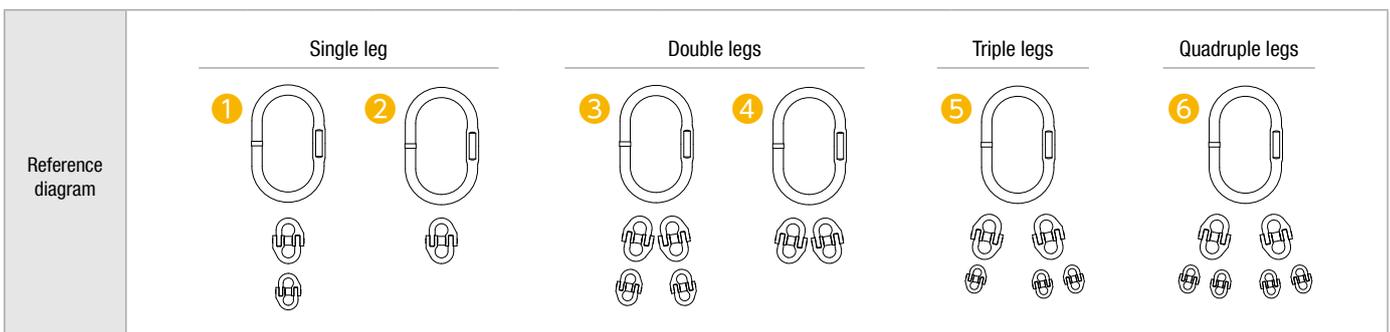
## Combinations of Hi-coupling for Use with the Large Master Link HMG/HMH

| Slinging Method | Working Load Limit (t) | Chain Diameter (mm) | Master Link | Hi-coupling |          | Reference diagram |
|-----------------|------------------------|---------------------|-------------|-------------|----------|-------------------|
| Single leg      | 1.1                    | ø6                  | HMG0807     | HC3080      | HC3060   | ①                 |
|                 | 1.5                    | ø7                  | HMG0807     | HC3080      | HC3070   |                   |
|                 | 2.0                    | ø8                  | HMG0807     | HC3080      | —        | ②                 |
|                 | 3.2                    | ø10                 | HMG1008     | HC3100      | —        |                   |
|                 | 5.0                    | ø13                 | HMG1310     | HC3130      | —        |                   |
|                 | 8.0                    | ø16                 | HMH1613     | HC3160      | —        |                   |
|                 | 11.5                   | ø20                 | HMH2016     | HC3200      | —        |                   |
| Double legs     | 1.7                    | ø6                  | HMG0807     | HC3080x2    | HC3060x2 | ③                 |
|                 | 2.0                    | ø7                  | HMG0807     | HC3080x2    | HC3070x2 |                   |
|                 | 3.2                    | ø8                  | HMG1008     | HC3080x2    | —        | ④                 |
|                 | 5.0                    | ø10                 | HMG1310     | HC3100x2    | —        |                   |
|                 | 8.0                    | ø13                 | HMH1613     | HC3160x2    | HC3130x2 | ③                 |
|                 | 11.5                   | ø16                 | HMH2016     | HC3200x2    | HC3160x2 |                   |
| Triple legs     | 2.0                    | ø6                  | HMG0807     | HC3080x2    | HC3060x3 | ⑤                 |
|                 | 3.2                    | ø7                  | HMG1008     | HC3080x2    | HC3070x3 |                   |
|                 | 5.0                    | ø8                  | HMG1310     | HC3100x2    | HC3080x3 |                   |
|                 | 8.0                    | ø10                 | HMH1613     | HC3160x2    | HC3100x3 |                   |
|                 | 11.5                   | ø13                 | HMH2016     | HC3200x2    | HC3130x3 |                   |
| Quadruple legs  | 2.0                    | ø6                  | HMG0807     | HC3080x2    | HC3060x4 | ⑥                 |
|                 | 3.2                    | ø7                  | HMG1008     | HC3080x2    | HC3070x4 |                   |
|                 | 5.0                    | ø8                  | HMG1310     | HC3100x2    | HC3080x4 |                   |
|                 | 8.0                    | ø10                 | HMH1613     | HC3160x2    | HC3100x4 |                   |
|                 | 11.5                   | ø13                 | HMH2016     | HC3200x2    | HC3130x4 |                   |

### Reference example of hi-coupling combinations



In the case of assembling set products using the Large Master Link HMG/HMH, use in combination with hi-couplings as described in the contents of the table at left.



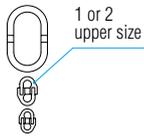
# Eye Type (HMG/HMH) [Assembled] • Single Leg Sling • Double Leg Sling

## Large Master Link HMG/HMH

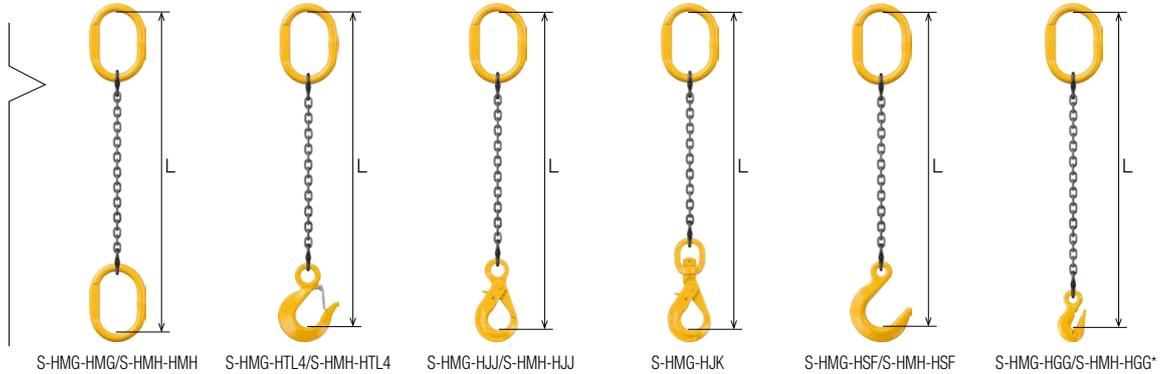
- For slinging methods that have a “\*” mark, in situations where the chain is used by hooking on a grab hook (in order to adjust the length, etc.) the working load limits will become 70% of the values shown in the previous page. For more details, refer to “Table of Lifting and Working Load Limits” on page 8.
- Reaches (dimensions L) other than the values described in the table can also be supported, so please contact KITO for more information.
- The photographs of the Assembled show images of the combinations. The actual number of chain links will differ according to the dimension L, so contact KITO for more information.

### Eye Type Single Leg Sling

ø6mm and ø7mm chain



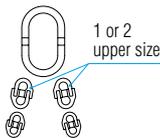
In the case of single leg sling Assembled for the ø6mm or ø7mm chain, there are two Hi-couplings linking the Master Link and the chain.



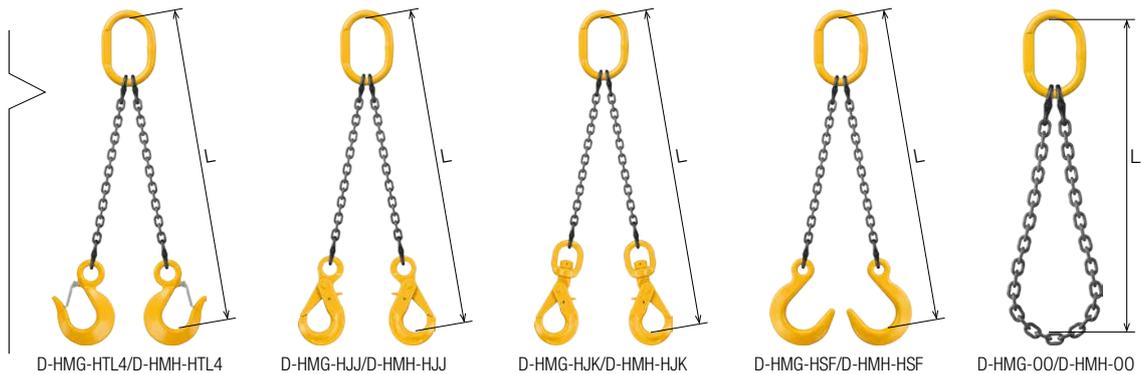
| Working Load Limit (t) | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code      |            |           |           |           |             |
|------------------------|--|------------------------------------|-----------|------------|-----------|-----------|-----------|-------------|
|                        |  |                                    | S-HMG-HMG | S-HMG-HTL4 | S-HMG-HJJ | S-HMG-HJK | S-HMG-HSF | S-HMG-HGG * |
| 1.1                    | ø6(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5         |
|                        |  | Mass (Weight) of Kit               | 3.7       | 3.0        | 3.0       | 3.3       | 3.1       | 2.8         |
| 1.5                    | ø7(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5         |
|                        |  | Mass (Weight) of Kit               | 4.1       | 3.8        | 3.9       | 4.0       | 4.1       | 3.5         |
| 2.0                    | ø8(x1)                                   | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5         |
|                        |  | Mass (Weight) of Kit               | 4.2       | 4.0        | 4.1       | 4.2       | 4.3       | 3.8         |
| 3.2                    | ø10(x1)                                  | Reach: L                           | 1.5       | 1.5        | 1.5       | 1.5       | 1.5       | 1.5         |
|                        |  | Mass (Weight) of Kit               | 6.1       | 6.3        | 6.4       | 6.6       | 6.8       | 5.9         |
| 5.0                    | ø13(x1)                                  | Reach: L                           | 2.0       | 2.0        | 2.0       | 2.0       | 2.0       | 2.0         |
|                        |  | Mass (Weight) of Kit               | 11.4      | 12.5       | 12.9      | 13.4      | 13.0      | 12.0        |
|                        |  |                                    | S-HMH-HMH | S-HMH-HTL4 | S-HMH-HJJ | —         | S-HMH-HSF | S-HMH-HGG   |
| 8.0                    | ø16(x1)                                  | Reach: L                           | 2.5       | 2.5        | 2.5       | —         | 2.5       | 2.5         |
|                        |  | Mass (Weight) of Kit               | 28.9      | 27.6       | 27.8      | —         | 27.5      | 26.6        |
| 11.5                   | ø20(x1)                                  | Reach: L                           | 3.0       | 3.0        | —         | —         | 3.0       | 3.0         |
|                        |  | Mass (Weight) of Kit               | 46.6      | 48.0       | —         | —         | 45.7      | 45.6        |

### Eye Type Double Leg Sling

ø6mm/ø7mm/ø13mm/ø16mm chain



In the case of double leg sling Assembled for ø6mm, ø7mm, ø13mm or ø16mm chain, there are two Hi-couplings linking the Master Link and the chain.



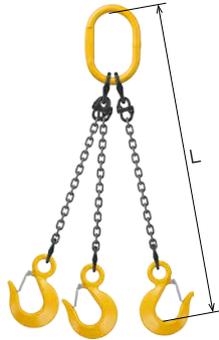
| Working Load Limit (t) θ=60° | Chain Diameter (mm) (x Number of Chains) | Dimensions (mm) Mass (Weight) (kg) | Code       |           |           |           |          |
|------------------------------|--|------------------------------------|------------|-----------|-----------|-----------|----------|
|                              |  |                                    | D-HMG-HTL4 | D-HMG-HJJ | D-HMG-HJK | D-HMG-HSF | D-HMG-00 |
| 1.7                          | ø6(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 4.7        | 4.8       | 5.3       | 5.0       | 4.0      |
| 2.0                          | ø7(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 6.3        | 6.5       | 6.8       | 7.0       | 5.0      |
| 3.2                          | ø8(x2)                                   | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 7.1        | 7.4       | 7.6       | 7.8       | 5.9      |
| 5.0                          | ø10(x2)                                  | Reach: L                           | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|                              |  | Mass (Weight) of Kit               | 11.5       | 11.7      | 12.2      | 12.5      | 9.3      |
|                              |  |                                    | D-HMH-HTL4 | D-HMH-HJJ | D-HMH-HJK | D-HMH-HSF | D-HMH-00 |
| 8.0                          | ø13(x2)                                  | Reach: L                           | 2.0        | 2.0       | 2.0       | 2.0       | 2.0      |
|                              |  | Mass (Weight) of Kit               | 30.4       | 30.6      | 31.6      | 31.4      | 26.0     |
| 11.5                         | ø16(x2)                                  | Reach: L                           | 2.5        | 2.5       | —         | 2.5       | 2.5      |
|                              |  | Mass (Weight) of Kit               | 53.8       | 54.1      | —         | 53.6      | 46.1     |

# Eye Type (HMG/HMH) [Assembled] •Triple Leg Sling •Quadruple Leg Sling

## Large Master Link HMG/HMH

- Reaches (dimensions L) other than the values described in the table can also be supported, so please contact KITO for more information.
- The photographs of the Assembled show images of the combinations.  
The actual number of chain links will differ according to the dimension L, so contact KITO for more information.

### Eye Type Triple Leg Sling



T-HMG-HTL4/T-HMH-HTL4



T-HMG-HJJ/T-HMH-HJJ



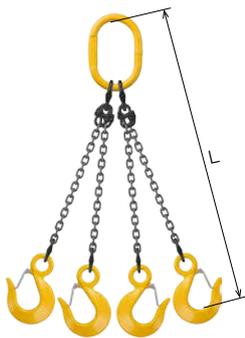
T-HMG-HJK/T-HMH-HJK



T-HMG-HSF/T-HMH-HSF

| Working Load Limit<br>(t) $\theta=60^\circ$ | Chain Diameter<br>(mm)<br>(x Number of Chains) | Dimensions (mm)<br>Mass (Weight) (kg) | Code       |           |           |           |
|---|--|---------------------------------------|------------|-----------|-----------|-----------|
|   |  |                                       | T-HMG-HTL4 | T-HMG-HJJ | T-HMG-HJK | T-HMG-HSF |
| 2.0   | $\phi 6(x3)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       |
|   |  | Mass (Weight) of Kit                  | 6.2        | 6.4       | 7.1       | 6.7       |
| 3.2   | $\phi 7(x3)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       |
|   |  | Mass (Weight) of Kit                  | 9.0        | 9.3       | 9.8       | 10.1      |
| 5.0   | $\phi 8(x3)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       |
|   |  | Mass (Weight) of Kit                  | 10.9       | 11.4      | 11.8      | 12.0      |
|   |  |                                       | T-HMH-HTL4 | T-HMH-HJJ | T-HMH-HJK | T-HMH-HSF |
| 8.0   | $\phi 10(x3)$                                  | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       |
|   |  | Mass (Weight) of Kit                  | 24.1       | 24.4      | 25.2      | 25.6      |
| 11.5  | $\phi 13(x3)$                                  | Reach: L                              | 2.0        | 2.0       | 2.0       | 2.0       |
|   |  | Mass (Weight) of Kit                  | 44.0       | 45.2      | 46.7      | 45.5      |

### Eye Type Quadruple Leg Sling



Q-HMG-HTL4/Q-HMH-HTL4



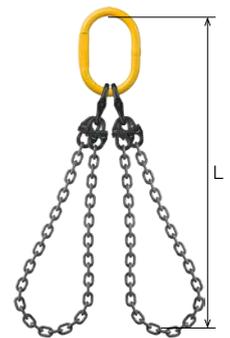
Q-HMG-HJJ/Q-HMH-HJJ



Q-HMG-HJK/Q-HMH-HJK



Q-HMG-HSF/Q-HMH-HSF



Q-HMG-00/Q-HMH-00

| Working Load Limit<br>(t) $\theta=60^\circ$ | Chain Diameter<br>(mm)<br>(x Number of Chains) | Dimensions (mm)<br>Mass (Weight) (kg) | Code       |           |           |           |          |
|---|--|---------------------------------------|------------|-----------|-----------|-----------|----------|
|   |  |                                       | Q-HMG-HTL4 | Q-HMG-HJJ | Q-HMG-HJK | Q-HMG-HSF | Q-HMG-00 |
| 2.0   | $\phi 6(x4)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|   |  | Mass (Weight) of Kit                  | 7.8        | 7.9       | 8.9       | 8.4       | 5.8      |
| 3.2   | $\phi 7(x4)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|   |  | Mass (Weight) of Kit                  | 11.3       | 11.8      | 12.4      | 12.7      | 7.9      |
| 5.0   | $\phi 8(x4)$                                   | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|   |  | Mass (Weight) of Kit                  | 13.5       | 14.1      | 14.7      | 14.9      | 10.3     |
|   |  |                                       | Q-HMH-HTL4 | Q-HMH-HJJ | Q-HMH-HJK | Q-HMH-HSF | Q-HMH-00 |
| 8.0   | $\phi 10(x4)$                                  | Reach: L                              | 1.5        | 1.5       | 1.5       | 1.5       | 1.5      |
|   |  | Mass (Weight) of Kit                  | 28.3       | 28.7      | 29.7      | 30.3      | 21.9     |
| 11.5  | $\phi 13(x4)$                                  | Reach: L                              | 2.0        | 2.0       | 2.0       | 2.0       | 2.0      |
|   |  | Mass (Weight) of Kit                  | 53.1       | 54.7      | 56.7      | 55.1      | 41.5     |

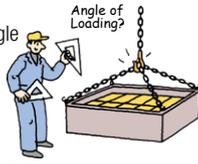
## Precautions for Use

### 1 Strictly Avoid Overloading

KITO CHAIN SLING 100 [S5 series] products have KITO Sling Tags attached. Be sure to use the product within the range of the working load limits displayed on the KITO Sling Tag.

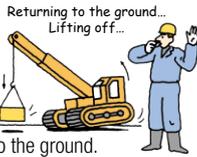
### 2 Changes in the Working Load Limit according to the Angle of Loading

The working load limits will change according to the angle of loading. Be certain to confirm the actual angle of loading with the angle of loading and working load limits described on the KITO Sling Tag.



### 3 Minimizing the Impact Loading

Impact loading will lead to unexpected overloading. Take particular care to avoid shock when the loads are lifted off and returned to the ground.



### 4 Measures when Loads have Sharp Edges

For loads that have sharper edges, an increasingly unreasonable force will be applied to the chain slings, affecting their strength. Apply pads to protect the load and chains, and use chains considering the safety factor margin.



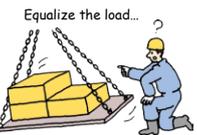
### 5 Chain Twisting and Tangling

Verify that the chain is not twisted, tangled, or tangled with the sling components prior to use.



### 6 When the Load is Out of Balance

Suspend loads in such a way that the loading is applied equally to all the chain slings. In cases where the form of the load makes it difficult to suspend with equal loading on each chain, select the slings while considering the chain side that bears the heaviest load as the reference.



### 7 Apply Loads to the Center of the Hook

Be certain to suspend the load from the center of the hook (deepest part). Avoid suspending loads from the hook tip.

### 8 Variations in Working Load Limits under High Temperatures

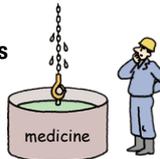
In the case of using chain slings in high temperature environments, or in cases where chain slings are used under normal temperatures after they have been used in high temperature environments, the working load limits should be reduced according to the corresponding temperature in the table below.



| Temperature                  | Working Load Limit Reduction (%) |
|------------------------------|----------------------------------|
| Over -40°C and 100°C or less | 100                              |
| Over 100°C and 200°C or less | 90                               |
| Over 200°C and 300°C or less | 75                               |
| Over 300°C and 350°C or less | 65                               |
| Over 350°C and 400°C or less | 60                               |
| Over 400°C                   | Usage not allowed                |

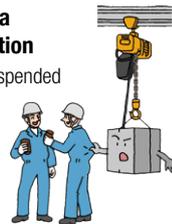
### 9 Resistance to Chemicals

The extent of the effect will differ according to the type of chemical. Please consult KITO beforehand.



### 10 Leaving Loads in a Suspended Condition

Do not leave loads in a suspended condition for long periods.



### 11 Durability

When using under the conditions described below, reduce loads to no more than 80% of the working load limits described in the Working Load Limits Table.

- (1) Work that is carried out with high frequency or when the working load is applied continuously
- (2) Work in which vibration is applied continuously
- (3) Usage by incorporation in an automatic line



### 12 Chain Sling Usage Limits

Observe the usage limitations due to wear and elongation, and do not use products that have become deformed or cracked.

## Recommendations for Correct Equipment Administration

Inspection is the first step of safety. In order to use the equipment safely, carry out the daily inspections, monthly inspections and periodic inspections.

### 1 Daily and Periodic Inspections

Daily inspections should be implemented by the operator before using the chain slings for work. In addition, periodic inspections should be implemented by the persons determined by the business entity.

### 2 Chain Sling Storage

Store chain slings in appropriate locations under favorable environments where they will not rust.

### 3 Chain Sling Record Administration

The administration of inspection records is important for the safe use of chain slings.

KITO has prepared a "Periodic Inspection Standards Manual" which describes the inspection standards and periodic inspection check sheets.

- The functions and performance of the products mentioned in the catalog have been designed according to each usage purpose based on the related regulations and standards. If they are used for other than their intended purposes such as being integrated into your equipment, KITO will not take any responsibility for accidents attributable to their unintended usages as well as guarantee their performance and functions. Never remodel our products.
- In case you intend to use our products for special purposes, consult us in advance.
- Among the products described in this catalog, some are manufactured in Japan and some in Italy.
- In case you intend to export our products, consult us in advance. There are different standards and regulations from one destination to another.
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