



青島新泉熙金屬制品有限公司

Qingdao Xinquanxi Metal Products Co., Ltd.



公司介绍

COMPANY INTRODUCTION

会社概要



## Company Introduction

Qingdao XinQuanxi Metal Products Co., Ltd. was established in 2001 (formerly known as Qingdao Quanxi Hardware Cable Co., LTD.), located in Jimo District, Qingdao city, the company was mainly engaged in the production and sales of Japanese open-body turnbuckle, die forging shackles, products are mainly sold to the United States, Russia, Japan and other countries. In September 2019, with the continuous development of the company's business, it merged with Qingdao Ruihongjie Industry and Trade Co., LTD., and changed the company name to Qingdao Xinquanxi Metal Products Co., LTD. At the same time, the business range is gradually expanding, the main production and operation of hardware rigging, wire rope connecting parts, hardware machinery, Fasteners, Marine and automobile connecting parts, all kinds of forging, sheet metal, stamping, casting parts and other products. After more than 20 years of development, we have established a complete system, with strong technical capacity, mature production methods, advanced production equipment and testing methods. We always adhere to the principle of quality first, safe production, timely delivery, customer satisfaction after sale service, and constantly research and learn product expertise, with the best quality products to serve customers.

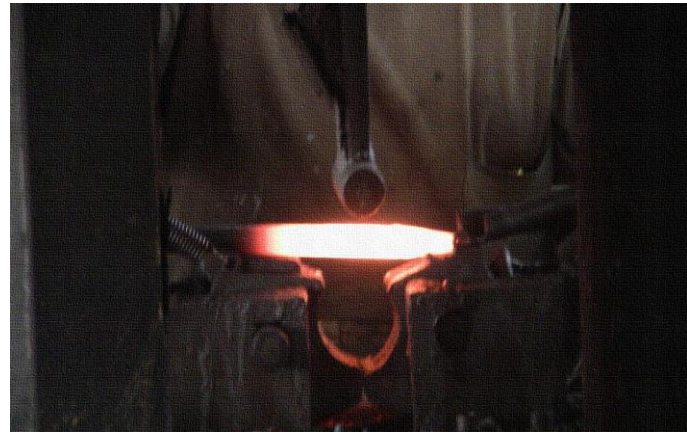


## 工厂加工设备

Profile-Machining Equipments (Forging, casting, mechanical processing)



machining centers



Bending processing



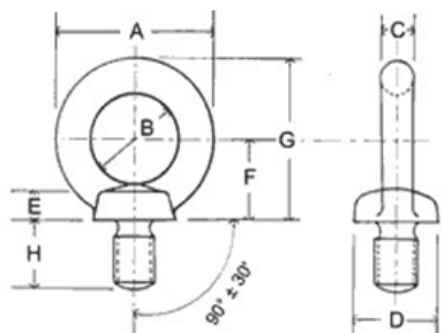
moulding floor 铸造车间 砂型铸造

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# JIS B1168 EYEBOLTS

## JIS B1168 アイボルト

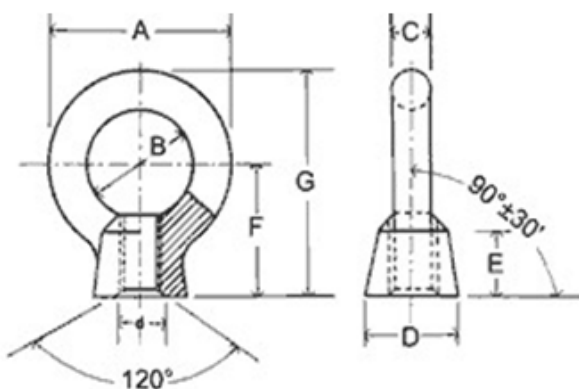


Unit:mm

| Size(d) | M8   | M10  | M12 | M16  | M20 | M24 | M30 | M36   | M42   | M48 | M64 | M80 | M90 | M100 |
|---------|------|------|-----|------|-----|-----|-----|-------|-------|-----|-----|-----|-----|------|
| A       | 32.6 | 41   | 50  | 60   | 72  | 90  | 110 | 133   | 151   | 170 | 210 | 266 | 302 | 340  |
| B       | 20   | 25   | 30  | 35   | 40  | 50  | 60  | 70    | 80    | 90  | 110 | 140 | 160 | -    |
| C       | 6.3  | 8    | 10  | 12.5 | 16  | 20  | 25  | 31.5  | 35.5  | 40  | 50  | 63  | 71  | 80   |
| D       | 16   | 20   | 25  | 30   | 35  | 45  | 60  | 70    | 80    | 90  | 110 | 130 | 150 | 170  |
| E       | 5    | 7    | 9   | 11   | 13  | 18  | 22  | 26    | 30    | 35  | 42  | 50  | 55  | 60   |
| F       | 17   | 21   | 26  | 30   | 35  | 45  | 55  | 65    | 75    | 85  | 105 | 130 | 150 | 165  |
| G       | 33.3 | 41.5 | 51  | 60   | 71  | 90  | 110 | 131.5 | 150.5 | 170 | 210 | 263 | 301 | 335  |
| H       | 15   | 18   | 22  | 27   | 30  | 38  | 45  | 55    | 65    | 70  | 90  | 105 | 120 | 130  |

# JIS B1169 EYENUTS

## JIS B1169 アイナット



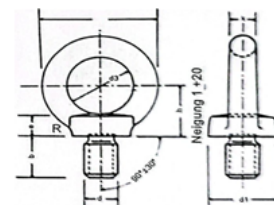
Unit:mm

| Size(d) | M8   | M10  | M12 | M16  | M20 | M24 | M30 | M36   | M42   | M48 | M64 | M80 |
|---------|------|------|-----|------|-----|-----|-----|-------|-------|-----|-----|-----|
| A       | 32.6 | 41   | 50  | 60   | 72  | 90  | 110 | 133   | 151   | 170 | 210 | 266 |
| B       | 20   | 25   | 30  | 35   | 40  | 50  | 60  | 70    | 80    | 90  | 110 | 140 |
| C       | 6.3  | 8    | 10  | 12.5 | 16  | 20  | 25  | 31.5  | 35.5  | 40  | 50  | 63  |
| D       | 16   | 20   | 25  | 30   | 35  | 45  | 60  | 70    | 80    | 90  | 110 | 130 |
| E       | 12   | 15   | 19  | 23   | 28  | 38  | 46  | 55    | 64    | 73  | 90  | 108 |
| F       | 23   | 28   | 36  | 42   | 50  | 66  | 80  | 95    | 109   | 123 | 151 | 184 |
| G       | 39.3 | 48.5 | 61  | 72   | 86  | 111 | 135 | 161.5 | 184.5 | 208 | 256 | 317 |

# EYE BOLT DIN580

## 吊環螺栓 DIN 580

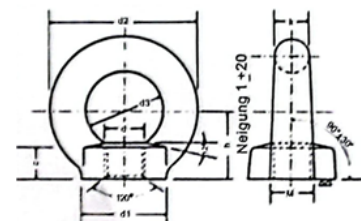
| Size<br>d | WLL<br>t | WLL<br>t | DIMENSIONS |          |          |         |         |         |         | Weight<br>%kg |
|-----------|----------|----------|------------|----------|----------|---------|---------|---------|---------|---------------|
|           |          |          | d1<br>mm   | d2<br>mm | d3<br>mm | b<br>mm | C<br>mm | h<br>mm | k<br>mm |               |
| M 6       | 0.07     | 0.05     | 17         | 28       | 16       | 13      | 6       | 17      | 6       | 5             |
| M 8       | 0.14     | 0.095    | 20         | 36       | 20       | 15      | 6       | 18      | 8       | 6             |
| M 10      | 0.23     | 0.17     | 25         | 45       | 25       | 18      | 8       | 22      | 10      | 11            |
| M 12      | 0.34     | 0.24     | 30         | 54       | 30       | 22      | 10      | 26      | 12      | 18            |
| M 14      | 0.49     | 0.34     | 35         | 63       | 35       | 28      | 12      | 30      | 14      | 28.5          |
| M 16      | 0.7      | 0.5      | 35         | 63       | 35       | 28      | 12      | 30      | 14      | 28            |
| M 20      | 1.2      | 0.83     | 40         | 72       | 40       | 30      | 12      | 35      | 16      | 45            |
| M 22      | 1.5      | 1.05     | 45         | 81       | 45       | 35      | 14      | 40      | 18      | 67            |
| M 24      | 1.8      | 1.27     | 50         | 90       | 50       | 38      | 16      | 45      | 20      | 87            |
| M 27      | 2.5      | 1.65     | 50         | 90       | 50       | 38      | 18      | 45      | 20      | 88            |
| M 30      | 3.6      | 2.6      | 65         | 108      | 60       | 45      | 18      | 55      | 24      | 166           |
| M 33      | 4.3      | 3.2      | 65         | 108      | 60       | 45      | 22      | 55      | 24      | 172           |
| M 36      | 5.1      | 3.7      | 75         | 126      | 70       | 55      | 22      | 65      | 28      | 265           |
| M 39      | 6.1      | 4.3      | 75         | 126      | 70       | 55      | 26      | 65      | 28      | 280           |
| M 42      | 7        | 5        | 85         | 144      | 80       | 65      | 30      | 75      | 32      | 403           |
| M 45      | 8        | 5.5      | 85         | 144      | 80       | 65      | 30      | 75      | 32      | 425           |
| M 48      | 8.6      | 6.1      | 100        | 166      | 90       | 70      | 35      | 85      | 38      | 638           |
| M 52      | 9.9      | 7.3      | 100        | 166      | 90       | 70      | 35      | 85      | 38      | 660           |
| M 65      | 11.5     | 8.3      | 110        | 184      | 100      | 80      | 38      | 95      | 42      | 880           |
| M 64      | 16       | 11       | 120        | 206      | 110      | 90      | 42      | 100     | 48      | 1240          |



# EYE NUTS DIN582

## 吊環螺栓 DIN 582

| Size<br>d | WLL<br>t | WLL<br>t | DIMENSIONS |          |          |         |         |         | Weight<br>%kg |
|-----------|----------|----------|------------|----------|----------|---------|---------|---------|---------------|
|           |          |          | d1<br>mm   | d2<br>mm | d3<br>mm | e<br>mm | h<br>mm | k<br>mm |               |
| M 6       | -        | -        | 20         | 36       | 20       | 8.5     | 18      | 8       | 4.9           |
| M 8       | 0.14     | 0.095    | 20         | 36       | 20       | 8.5     | 18      | 8       | 5.0           |
| M 10      | 0.23     | 0.17     | 25         | 45       | 25       | 10      | 22      | 10      | 9.0           |
| M 12      | 0.34     | 0.24     | 30         | 54       | 30       | 11      | 26      | 12      | 16.0          |
| M 10      | 0.7      | 0.5      | 35         | 63       | 35       | 13      | 30      | 14      | 24.0          |
| M 20      | 1.2      | 0.83     | 40         | 72       | 40       | 16      | 35      | 16      | 36.0          |
| M 22      | 1.5      | 1.05     | 45         | 81       | 45       | 18      | 40      | 18      | 58.0          |
| M 24      | 1.8      | 1.27     | 50         | 90       | 50       | 20      | 45      | 20      | 72.0          |
| M 27      | 2.5      | 1.65     | 50         | 90       | 50       | 20      | 45      | 20      | 70.0          |
| M 30      | 3.6      | 2.6      | 65         | 108      | 60       | 25      | 55      | 24      | 132.0         |
| M 33      | 4.3      | 3.2      | 65         | 108      | 60       | 25      | 55      | 24      | 130.0         |
| M 36      | 5.1      | 3.7      | 75         | 126      | 70       | 30      | 65      | 28      | 208.0         |
| M 39      | 6.1      | 4.3      | 75         | 126      | 70       | 30      | 65      | 28      | 202.0         |
| M 42      | 7        | 5        | 85         | 144      | 80       | 35      | 75      | 32      | 311.0         |
| M 45      | 8        | 5.5      | 85         | 144      | 80       | 35      | 75      | 32      | 304.0         |
| M 48      | 8.6      | 6.1      | 100        | 166      | 90       | 40      | 85      | 38      | 502.0         |
| M 52      | 9.9      | 7.3      | 100        | 166      | 90       | 40      | 85      | 38      | 495.0         |
| M 56      | 11.5     | 8.3      | 110        | 184      | 100      | 45      | 95      | 42      | 669.0         |
| M 64      | 16       | 11       | 120        | 206      | 110      | 50      | 105     | 48      | 930.0         |



\*)These sizes should be avoided,if possible.

Model:Drop forged,fused,sdlfcoloured

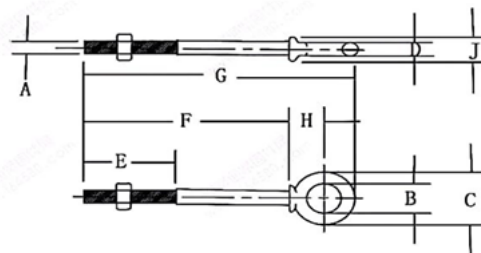
Material and Thread:C 15/DIN 11/DIN 267.

# SHOULDER NUT EYE BOLTS



G-277

Forged Steel.  
Hot Dip galvanized.



| Shank Diameter & Length (in.) | Working Load Limit (lbs.) | Weight Per 100 (lbs.) | Dimensions (in.) |      |      |      |      |       |       |      |      |  |
|-------------------------------|---------------------------|-----------------------|------------------|------|------|------|------|-------|-------|------|------|--|
|                               |                           |                       | A                | B    | C    | D    | E    | F     | G     | H    | J    |  |
| 1/4x2                         | 500                       | 6.61                  | 0.25             | 0.50 | 0.88 | 0.19 | 1.50 | 2.00  | 2.94  | 0.50 | 0.47 |  |
| 1/4x4                         | 500                       | 8.61                  | 0.25             | 0.50 | 0.88 | 0.19 | 2.50 | 4.00  | 4.94  | 0.50 | 0.47 |  |
| 5/16x2 1/4                    | 800                       | 12.50                 | 0.31             | 0.62 | 1.12 | 0.25 | 1.50 | 2.25  | 3.50  | 0.69 | 0.56 |  |
| 5/16x4 1/4                    | 800                       | 18.75                 | 0.31             | 0.62 | 1.12 | 0.25 | 2.50 | 4.25  | 5.50  | 0.69 | 0.56 |  |
| 3/8x2 1/2                     | 1200                      | 19.00                 | 0.38             | 0.75 | 1.38 | 0.31 | 1.50 | 2.50  | 3.97  | 0.78 | 0.66 |  |
| 3/8x4 1/2                     | 1200                      | 31.58                 | 0.38             | 0.75 | 1.38 | 0.31 | 2.50 | 4.50  | 5.97  | 0.78 | 0.66 |  |
| 1/2x3 1/4                     | 2200                      | 37.50                 | 0.50             | 1.00 | 1.75 | 0.38 | 1.50 | 3.25  | 5.12  | 1.00 | 0.91 |  |
| 1/2x6                         | 2200                      | 56.25                 | 0.50             | 1.00 | 1.75 | 0.38 | 3.00 | 6.00  | 7.88  | 1.00 | 0.91 |  |
| 5/8x4                         | 3500                      | 75.00                 | 0.62             | 1.25 | 2.25 | 0.50 | 2.00 | 4.00  | 6.44  | 1.31 | 1.12 |  |
| 5/8x6                         | 3500                      | 100.25                | 0.62             | 1.25 | 2.25 | 0.50 | 3.00 | 6.00  | 8.44  | 1.31 | 1.12 |  |
| 3/4x4 1/2                     | 5200                      | 125.00                | 0.75             | 1.50 | 2.75 | 0.62 | 2.00 | 4.50  | 7.44  | 1.56 | 1.38 |  |
| 3/4x6                         | 5200                      | 150.00                | 0.75             | 1.50 | 2.75 | 0.62 | 3.00 | 6.00  | 8.94  | 1.56 | 1.38 |  |
| 7/8x5                         | 7200                      | 225.00                | 0.88             | 1.75 | 3.25 | 0.75 | 2.50 | 5.00  | 8.47  | 1.84 | 1.56 |  |
| 1x6                           | 10000                     | 375.00                | 1.00             | 2.00 | 3.75 | 0.88 | 3.00 | 6.00  | 9.97  | 2.09 | 1.81 |  |
| 1x9                           | 10000                     | 429.00                | 1.00             | 2.00 | 3.75 | 0.88 | 4.00 | 9.00  | 12.97 | 2.09 | 1.81 |  |
| 1 1/4x8                       | 15200                     | 650.00                | 1.25             | 2.25 | 4.50 | 1.00 | 4.00 | 8.00  | 12.72 | 2.47 | 2.28 |  |
| 1 1/4x12                      | 15200                     | 775.00                | 1.25             | 2.25 | 4.50 | 1.00 | 4.00 | 12.00 | 16.72 | 2.47 | 2.28 |  |
| 1 1/2x15                      | 21400                     | 1425.00               | 1.50             | 3.00 | 5.50 | 1.25 | 6.00 | 15.00 | 20.75 | 3.00 | 2.75 |  |

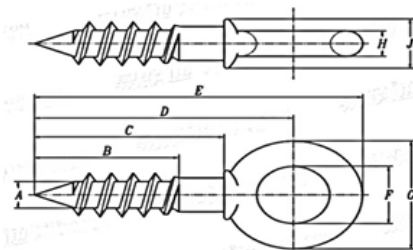
# SCREW EYEBOLTS

MBS=5 × WLL



G-275

Forged Steel. Quenched and Tempered  
Hot Dipped galvanized.

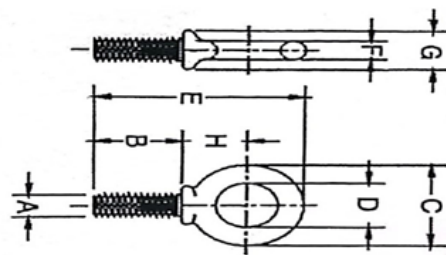
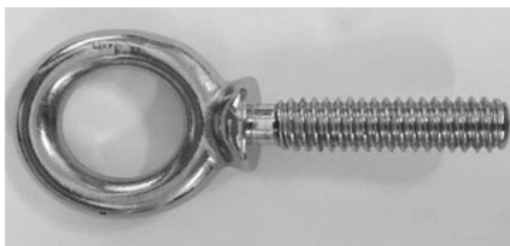


| Shank Diameter & Length (in.) | Weight Per 100 (lbs.) | Dimensions (in.) |      |      |      |      |      |      |      |      |  |
|-------------------------------|-----------------------|------------------|------|------|------|------|------|------|------|------|--|
|                               |                       | A                | B    | C    | D    | E    | F    | G    | H    | J    |  |
| 1/4x2                         | 4.25                  | 0.25             | 1.50 | 2.00 | 2.50 | 2.94 | 0.50 | 0.88 | 0.19 | 0.47 |  |
| 5/16x2 1/4                    | 6.25                  | 0.31             | 1.69 | 2.25 | 2.94 | 3.50 | 0.63 | 1.13 | 0.25 | 0.56 |  |
| 3/8x2 1/2                     | 18.75                 | 0.38             | 1.88 | 2.50 | 3.28 | 3.97 | 0.75 | 1.38 | 0.31 | 0.66 |  |
| 1/2x3 1/4                     | 37.50                 | 0.50             | 2.44 | 3.25 | 4.25 | 5.12 | 1.00 | 1.75 | 0.38 | 0.91 |  |
| 5/8x4                         | 68.75                 | 0.63             | 3.00 | 4.00 | 5.31 | 6.44 | 1.25 | 2.25 | 0.50 | 1.12 |  |



# DROP FORGED SHOULDER MACHINERY EYE BOLT

## G-279 美式吊環螺栓 アイボルト 足長



| Size      | WLL (lbs) | Weight<br>100pcs (lbs) | Dimensions (in) |      |      |      |      |      |      |      |
|-----------|-----------|------------------------|-----------------|------|------|------|------|------|------|------|
|           |           |                        | A               | B    | C    | D    | E    | F    | G    | H    |
| 1/4×1     | 500       | 3.2                    | 0.25            | 1    | 0.88 | 0.5  | 1.94 | 0.19 | 0.47 | 0.5  |
| 5/16×11/8 | 900       | 6.2                    | 0.31            | 1.13 | 1.12 | 0.62 | 2.38 | 0.25 | 0.56 | 0.69 |
| 1/8×11/4  | 1400      | 12.5                   | 0.38            | 1.25 | 1.38 | 0.75 | 2.72 | 0.31 | 0.66 | 0.78 |
| 1/2×11/2  | 2600      | 25                     | 0.5             | 1.5  | 1.75 | 1    | 3.38 | 0.38 | 0.91 | 1    |
| 5/8×13/4  | 4000      | 50                     | 0.63            | 1.75 | 2.25 | 1.25 | 4.19 | 0.5  | 1.12 | 1.31 |
| 3/4×2     | 6000      | 87.5                   | 0.75            | 2    | 2.75 | 1.5  | 4.94 | 0.62 | 1.38 | 1.56 |
| 7/8×21/4  | 7200      | 150                    | 0.88            | 2.25 | 3.25 | 1.75 | 5.72 | 0.75 | 1.56 | 1.84 |
| 1×21/2    | 1000      | 218                    | 1               | 2.5  | 3.75 | 2    | 6.47 | 0.88 | 1.81 | 2.09 |
| 11/4×3    | 15200     | 380                    | 1.25            | 3    | 4.5  | 2.5  | 7.72 | 1    | 2.28 | 2.47 |
| 11/2×31/2 | 21400     | 700                    | 1.5             | 3.5  | 5.5  | 3    | 9.25 | 1.25 | 2.75 | 3    |

# Standard Size Stainless Steel DIN444 Drop Forged Swing Eye Bolt

## 不锈钢DIN444活节螺栓

ロングアイボルト DIN444 ステンレス製



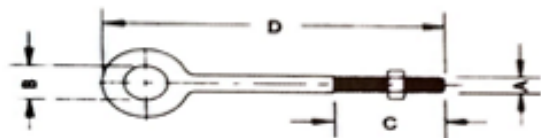
mm

| d     |              | M5  | M6    | M8   | M10   | M12   | M16   | M20   | M24   | M27   | M30   | M33  | M36   | M39   |       |
|-------|--------------|-----|-------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| P     |              | 0.8 | 1     | 1.25 | 1.5   | 1.75  | 2     | 2.5   | 3     | 3     | 3.5   | 3.5  | 4     | 4     |       |
| S     | Type A       | max | 8     | 9    | 11    | 14    | 17    | 19    | 24    | 28    | 30    | 34   | 38    | 41    | 46    |
|       |              | min | 7.52  | 8.52 | 10.3  | 13.3  | 16.3  | 18.16 | 23.16 | 27.2  | 29.16 | 33   | 37    | 40    | 45    |
| S     | Type B and C | max | 6     | 7    | 9     | 12    | 14    | 17    | 22    | 25    | 27    | 30   | 34    | 38    | 41    |
|       |              | min | 5.88  | 6.85 | 8.85  | 11.82 | 13.82 | 16.82 | 21.79 | 24.8  | 26.79 | 29.8 | 33.75 | 37.75 | 40.75 |
| b     | L<125        | 16  | 18    | 22   | 26    | 30    | 38    | 46    | 54    | 60    | 66    | /    | /     | /     |       |
|       | 125<L<200    | /   | /     | 28   | 32    | 36    | 44    | 52    | 50    | 66    | 72    | 78   | 84    | 90    |       |
|       | L>200        | /   | /     | /    | /     | 49    | 57    | 65    | 73    | 79    | 85    | 91   | 97    | 103   |       |
| d1 H9 |              | 5   | 6     | 8    | 10    | 12    | 16    | 18    | 22    | 24/25 | 27/28 | 30   | 32/33 | 35/36 |       |
| dk    | Type A       | max | 12    | 14   | 18    | 20    | 25    | 32    | 40    | 45    | 50    | 55   | 60    | 65    | 70    |
|       |              | min | 10.9  | 12.9 | 16.9  | 18.7  | 23.7  | 30.4  | 38.4  | 43.4  | 48.4  | 53.1 | 58.1  | 63.1  | 68.1  |
|       | Type B and C | max | 12    | 14   | 18    | 20    | 25    | 32    | 40    | 45    | 50    | 55   | 60    | 65    | 70    |
|       |              | min | 11.57 | 13.6 | 17.57 | 19.48 | 24.48 | 31.38 | 39.38 | 44.4  | 49.38 | 54.3 | 59.26 | 64.26 | 69.26 |

## REGULAR NUT EYE BOLT

G-291 美式吊環螺栓

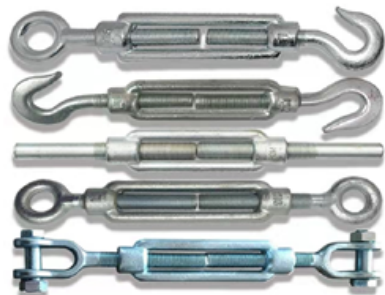
アイボルト G-291



| Shank Dia & Length (in) | Working Load Limit (lbs) | Weight Per 100 (lbs) | Dimensions (in) |      |      |       |
|-------------------------|--------------------------|----------------------|-----------------|------|------|-------|
|                         |                          |                      | A               | B    | C    | D     |
| 1/4x2                   | 500                      | 8.20                 | 0.25            | 0.50 | 1.50 | 3.06  |
| 1/4x4                   | 500                      | 11.70                | 0.25            | 0.50 | 2.50 | 5.06  |
| 5/16x2 1/4              | 800                      | 13.30                | 0.31            | 0.62 | 1.50 | 3.56  |
| 5/16x4 1/4              | 800                      | 25.00                | 0.31            | 0.62 | 2.50 | 5.56  |
| 3/8x2 1/2               | 1200                     | 23.30                | 0.38            | 0.75 | 1.50 | 4.12  |
| 3/8x4 1/2               | 1200                     | 29.50                | 0.38            | 0.75 | 2.50 | 6.12  |
| 3/8x6                   | 1200                     | 35.20                | 0.38            | 0.75 | 2.50 | 7.62  |
| 1/2x3 1/4               | 2200                     | 50.30                | 0.50            | 1.00 | 1.50 | 5.38  |
| 1/2x6                   | 2200                     | 66.10                | 0.50            | 1.00 | 3.00 | 8.12  |
| 1/2x8                   | 2200                     | 82.00                | 0.50            | 1.00 | 3.00 | 10.12 |
| 1/2x10                  | 2200                     | 88.00                | 0.50            | 1.00 | 3.00 | 12.12 |
| 1/2x12                  | 2200                     | 114.20               | 0.50            | 1.00 | 3.00 | 14.12 |
| 1/2x15                  | 2200                     | 116.85               | 0.50            | 1.00 | 4.00 | 17.12 |
| 5/8x4                   | 3500                     | 103.10               | 0.62            | 1.25 | 2.00 | 6.69  |
| 5/8x6                   | 3500                     | 118.20               | 0.62            | 1.25 | 3.00 | 8.69  |
| 5/8x8                   | 3500                     | 135.10               | 0.62            | 1.25 | 3.00 | 10.69 |
| 5/8x10                  | 3500                     | 153.60               | 0.62            | 1.25 | 3.00 | 12.69 |
| 5/8x12                  | 3500                     | 167.10               | 0.62            | 1.25 | 4.00 | 14.69 |
| 5/8x15                  | 3500                     | 201.16               | 0.62            | 1.25 | 5.00 | 17.69 |
| 5/8x24                  | 3500                     | 279.10               | 0.62            | 1.25 | 6.00 | 26.69 |
| 3/4x4 1/2               | 5200                     | 168.60               | 0.75            | 1.50 | 2.00 | 7.69  |
| 3/4x6                   | 5200                     | 184.50               | 0.75            | 1.50 | 3.00 | 9.19  |
| 3/4x8                   | 5200                     | 207.90               | 0.75            | 1.50 | 3.00 | 11.19 |
| 3/4x10                  | 5200                     | 235.00               | 0.75            | 1.50 | 3.00 | 13.19 |
| 3/4x12                  | 5200                     | 257.50               | 0.75            | 1.50 | 4.00 | 15.19 |
| 3/4x15                  | 5200                     | 298.00               | 0.75            | 1.50 | 5.00 | 18.19 |
| 7/8x5                   | 7200                     | 270.00               | 0.88            | 1.75 | 2.50 | 8.75  |
| 7/8x8                   | 7200                     | 308.00               | 0.88            | 1.75 | 4.00 | 11.75 |
| 7/8x12                  | 7200                     | 400.00               | 0.88            | 1.75 | 4.00 | 15.75 |
| 1x6                     | 10000                    | 421.00               | 1.00            | 2.00 | 3.00 | 10.31 |
| 1x9                     | 10000                    | 468.50               | 1.00            | 2.00 | 4.00 | 13.31 |
| 1x12                    | 10000                    | 540.00               | 1.00            | 2.00 | 4.00 | 16.31 |
| 1x18                    | 10000                    | 650.00               | 1.00            | 2.00 | 7.00 | 22.31 |
| 1 1/4x8                 | 15200                    | 750.00               | 1.25            | 2.50 | 4.00 | 13.38 |
| 1 1/4x12                | 15200                    | 900.00               | 1.25            | 2.50 | 4.00 | 17.38 |
| 1 1/4x20                | 15200                    | 1210.00              | 1.25            | 2.50 | 6.00 | 25.38 |

# DIN 1480 Turnbuckles

ターンバックル DIN1480タイプ

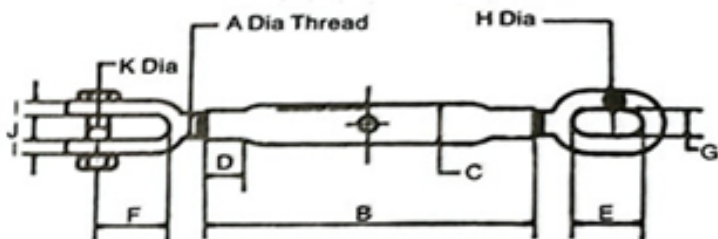


| d1      | M6  | M8  | M10 | M12 | M16 | M20 | M24 | M30 | M36 | M42 | M48 | M56 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| d2      | 12  | 15  | 18  | 21  | 27  | 34  | 39  | 45  | 55  | 63  | 80  | 80  |
| e       | 19  | 23  | 30  | 34  | 42  | 52  | 60  | 74  | 86  | 104 | 135 | 135 |
| f       | 9   | 11  | 14  | 16  | 20  | 24  | 28  | 34  | 40  | 50  | 65  | 65  |
| h min   | 6   | 8   | 9   | 11  | 14  | 17  | 20  | 23  | 28  | 32  | 40  | 40  |
| L1      | 110 | 110 | 125 | 125 | 170 | 200 | 255 | 255 | 295 | 330 | 355 | 355 |
| m1      | 12  | 15  | 18  | 21  | 27  | 34  | 39  | 45  | 55  | 63  | 78  | 78  |
| m2 max. | 6   | 8   | 9   | 11  | 14  | 17  | 20  | 23  | 28  | 32  | 39  | 39  |

# RIGGING SCREWS DIN1478

封闭花兰

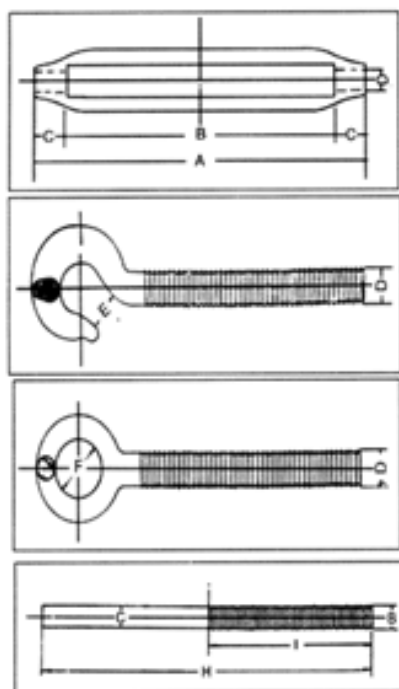
パイプ式ターンバックル



| SWL     | A<br>DIA<br>SCREW | B<br>LENGTH<br>OF<br>BODY | C<br>DIA<br>OF<br>BODY | D<br>JAW |            |        |       | E<br>OVAL EYE |        |       | WEIGHT<br>Per<br>piece |    |
|---------|-------------------|---------------------------|------------------------|----------|------------|--------|-------|---------------|--------|-------|------------------------|----|
|         |                   |                           |                        | DIA      | DIA<br>PIN | INSIDE |       | DIA           | INSIDE |       |                        |    |
|         |                   |                           |                        |          |            | LENGTH | HIDTH |               | LENGTH | HIDTH |                        |    |
|         |                   |                           |                        |          |            |        |       |               |        |       |                        | D1 |
| m. Tons | mm                | mm                        | mm                     | mm       | mm         | mm     | mm    | mm            | mm     | mm    | mm                     | kg |
| 0.10    | 6                 | 102                       | 12                     | 3        | 5          | 15     | 7     | 6             | 15     | 8     | 0.11                   |    |
| 0.15    | 8                 | 110                       | 15                     | 4        | 6          | 16     | 9     | 7             | 19     | 10    | 0.23                   |    |
| 0.375   | 10                | 152                       | 21                     | 5        | 8          | 21     | 11    | 8             | 25     | 11    | 0.28                   |    |
| 0.50    | 12                | 175                       | 27                     | 6        | 10         | 25     | 13    | 11            | 30     | 14    | 0.8                    |    |
| 0.75    | 16                | 229                       | 27                     | 10       | 12         | 40     | 18    | 14            | 41     | 16    | 1.4                    |    |
| 1.125   | 20                | 229                       | 33                     | 12       | 16         | 45     | 20    | 16            | 51     | 22    | 2                      |    |
| 1.60    | 22                | 305                       | 33                     | 15       | 18         | 48     | 24    | 16            | 51     | 22    | 3.5                    |    |
| 2.00    | 24                | 325                       | 42                     | 16       | 22         | 65     | 28    | 19            | 57     | 25    | 4                      |    |
| 2.75    | 28                | 356                       | 48                     | 18       | 22         | 59     | 30    | 19            | 57     | 28    | 4.5                    |    |
| 3.75    | 33                | 381                       | 48                     | 20       | 27         | 62     | 34    | 22            | 65     | 35    | 6.5                    |    |
| 4.25    | 35                | 381                       | 60                     | 22       | 28         | 68     | 38    | 22            | 65     | 36    | 8                      |    |
| 5.00    | 39                | 406                       | 60                     | 24       | 33         | 74     | 42    | 25            | 74     | 38    | 11                     |    |

# TURNBUCKLES FRAME TYPE JIS STANDARD

日式开体花兰  
枠式ターンバックル



① Body Only (TB-B)



② Eye and Eye (TB-E/E)



③ Hook and Eye (TB-H/E)



④ Hook and Hook (TB-H/H)



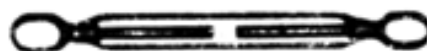
⑤ Oval Eye and Eye (TB-E/E)



⑥ With Stubs (TB-S/S)



⑦ Long Frame Turnbuckle with Eye and Eye (TB-%)



| Nomail Size (D) | ① Body Only |    |     |      |       | ② Eye and Eye |       |       | ③ Hook and Eye |       | ④ Hook and Hook |      |       | ⑤ With Stubs |           |     |       |       |
|-----------------|-------------|----|-----|------|-------|---------------|-------|-------|----------------|-------|-----------------|------|-------|--------------|-----------|-----|-------|-------|
|                 | A           | B  | C   | T. L | W/Pce | F             | T. L  | W/Pce | T. L           | W/Pce | F               | T. L | W/Pce | H            | 1(A)<br>2 | G   | W/Pce |       |
| 6 1/4           | 100         | 4  | 78  | 11   | 1     | 0.07          | 10    | 0.1   | 0.116          | 0.04  | 0.114           | 9    | 0.04  | 0.112        | 80        | 50  | 5.3   | 0.112 |
| 8 5/16          | 125         | 5  | 100 | 12.5 | 1.2   | 0.1           | 12    | 0.2   | 0.22           | 0.08  | 0.218           | 9    | 0.08  | 0.167        | 100       | 63  | 6.9   | 0.22  |
| 9 3/8           | 150         | 6  | 120 | 12.5 | 1.5   | 0.166         | 16    | 0.5   | 0.325          | 0.15  | 0.326           | 11   | 0.15  | 0.326        | 130       | 75  | 8.3   | 0.291 |
| 12 1/2          | 200         | 8  | 164 | 18   | 2     | 0.27          | 20    | 2     | 0.58           | 0.35  | 0.627           | 16   | 0.35  | 0.622        | 150       | 100 | 11.2  | 0.541 |
| 16 5/8          | 250         | 10 | 202 | 21.5 | 3     | 0.556         | 22    | 3     | 1.166          | 0.7   | 1.165           | 19   | 0.7   | 1.163        | 180       | 125 | 14.2  | 0.89  |
| 19 3/4          | 300         | 12 | 250 | 25   | 4     | 0.84          | 28    | 4     | 1.79           | 1     | 1.78            | 20   | 1     | 1.8          | 220       | 150 | 17.2  | 1.64  |
| 22 7/8          | 325         | 13 | 269 | 28   | 5     | 1.18          | 33    | 5     | 2.61           | 1.5   | 2.655           | 21   | 1.5   | 2.7          | 250       | 165 | 20.3  | 2.4   |
| 25 1            | 350         | 14 | 285 | 32.5 | 6     | 1.69          | 35    | 6     | 3.8            | 2     | 3.77            | 26   | 2     | 3.82         | 270       | 175 | 23.3  | 3.39  |
| 32 11/4         | 400         | 16 | 310 | 45   | 8     | 3.51          | 36x70 | 10    | 7.6            | 3     | 7.52            | 34   | 3     | 7.44         | 300       | 200 | 29    | 6.52  |

# TURNBUCKLES U.S. Federal Specification (FF-T-791b)

## アメリカタイプ ターンバックル



Hook & Hook



Hook & Eye



Eye & Eye



Jaw & Eye



Jaw & Jaw

| Size<br>(Diameter X<br>Take-Up) | Average<br>Overall<br>Length with<br>Ends in<br>Closed<br>Position | Approx. Weight Each (lbs) |            |            |             |              | Work Load Limit<br>Pounds |                                                 |  |
|---------------------------------|--------------------------------------------------------------------|---------------------------|------------|------------|-------------|--------------|---------------------------|-------------------------------------------------|--|
|                                 |                                                                    | Eyes<br>and/or<br>Hooks   | Jaw<br>Eye | Jaw<br>Jaw | Stub<br>End | Ends<br>Only | Hook<br>Hook<br>& Eye     | Eye & Eye<br>Jaw & Eye<br>Jaw & Jaw<br>Stub End |  |
| 1/4"x4"                         | 8 1/4                                                              | 3                         | 3          | 4          | 0.29        | 0.17         | 400                       | 500                                             |  |
| 5/16"x4 1/2"                    | 9 1/16                                                             | 0.5                       | 35         | 0.58       | 0.46        | 0.25         | 700                       | 800                                             |  |
| 3/8"x6"                         | 11 7/8                                                             | 0.75                      | 82         | 0.93       | 0.75        | 0.3          | 1,000                     | 12,000                                          |  |
| 1/2"x6"                         | 13 5/16                                                            | 1.5                       | 1.62       | 1.68       | 1.36        | 0.55         | 1,500                     | 2,200                                           |  |
| 1/2"x9"                         | 16 5/16                                                            | 1.75                      | 1.82       | 1.85       | 1.69        | 0.74         | 1,500                     | 2,200                                           |  |
| 1/2"x12"                        | 19 5/16                                                            | 2.18                      | 2.19       | 2.2        | 2           | 0.93         | 1,500                     | 2,200                                           |  |
| 5/8"x6"                         | 15 1/2                                                             | 2.63                      | 2.59       | 2.82       | 2.15        | 0.91         | 2,250                     | 3,500                                           |  |
| 5/8"x9"                         | 18 1/2                                                             | 3                         | 3.01       | 3.25       | 2.7         | 1.2          | 2,250                     | 3,500                                           |  |
| 5/8"x12"                        | 21 1/2                                                             | 3.25                      | 3.5        | 3.75       | 3.22        | 1.5          | 2,250                     | 3,500                                           |  |
| 3/4"x6"                         | 17                                                                 | 3.75                      | 4.25       | 4.68       | 3.25        | 1.3          | 3,000                     | 5,200                                           |  |
| 3/4"x9"                         | 20                                                                 | 4.5                       | 5          | 5.38       | 4           | 1.7          | 3,000                     | 5,200                                           |  |
| 3/4"x12"                        | 23                                                                 | 5.75                      | 5.75       | 6.12       | 4.65        | 2.12         | 3,000                     | 5,200                                           |  |
| 3/4"x18"                        | 29                                                                 | 7                         | 7.25       | 7.25       | 6.12        | 2.93         | 3,000                     | 5,200                                           |  |
| 7/8"x6"                         | 18                                                                 | --                        | --         | --         | 4.75        | 2            | --                        | 7,200                                           |  |
| 7/8"x12"                        | 24 5/8                                                             | 8.38                      | 8.88       | 9.36       | 6.67        | 3            | 4,000                     | 7,200                                           |  |
| 7/8"x18"                        | 30 5/8                                                             | 10.25                     | 10.6       | 11.44      | 8.75        | 4.12         | 4,000                     | 7,200                                           |  |
| 1"x6"                           | 20 5/8                                                             | --                        | --         | --         | 6.41        | 2.5          | --                        | 10,000                                          |  |
| 1"x12"                          | 26 5/8                                                             | 11.25                     | 12         | 12.88      | 8.9         | 3.86         | 5,000                     | 10,000                                          |  |
| 1"x18"                          | 32 5/8                                                             | 14                        | 14.75      | 16.1       | 11.7        | 5.5          | 5,000                     | 10,000                                          |  |
| 1"x24"                          | 38 5/8                                                             | 17                        | 17.75      | 18.6       | 14.3        | 7            | 5,000                     | 10,000                                          |  |
| 1 1/4"x6"                       | 20                                                                 | --                        | --         | --         | 10.4        | 4            | --                        | 15,200                                          |  |
| 1 1/4"x12"                      | 29 7/8                                                             | 19                        | 21.2       | 23.6       | 14.2        | 5.93         | --                        | 15,200                                          |  |
| 1 1/4"x18"                      | 35 7/8                                                             | 24.1                      | 26         | 26.6       | 18          | 8            | -                         | 15,200                                          |  |
| 1 1/4"x24"                      | 41 7/8                                                             | 25                        | 28.7       | 31.2       | 21.8        | 10           | -                         | 15,200                                          |  |
| 1 1/2"x6"                       | 22 1/2                                                             | --                        | --         | --         | 15.4        | 5.8          | -                         | 21,400                                          |  |
| 1 1/2"x12"                      | 32 3/8                                                             | 27                        | 31.1       | 35.5       | 20.5        | 8.4          | -                         | 21,400                                          |  |
| 1 1/2"x18"                      | 38 3/8                                                             | 31.2                      | 36.4       | 40.7       | 26.2        | 11.5         | -                         | 21,400                                          |  |
| 1 1/2"x24"                      | 44 3/8                                                             | 38.2                      | 44.2       | 47.6       | 31.4        | 14.1         | -                         | 21,400                                          |  |
| 1 3/4"x16"                      | -                                                                  | --                        | --         | --         | 22.7        | 8.75         | -                         | 28,000                                          |  |
| 1 3/4" x18"                     | 41 3/4                                                             | 45                        | 48.8       | 52.4       | -           | -            | -                         | 28,000                                          |  |

# ZINC ALLOY TURNBUCKLES EUROPEAN TYPE

## 歐式鋅合金花蘭

ダイキャストターンバックル ヨーロッパ式



| Size (ww) | OL. MAX (mm) | OL. min (mm) | WEIGHT (g) |
|-----------|--------------|--------------|------------|
| M5x50     | 120          | 90           | 40         |
| M6x60     | 140          | 100          | 60         |
| M8x70     | 170          | 130          | 90         |
| M5x70     | 140          | 110          | 50         |
| M10x80    | 200          | 150          | 160        |
| M6x100    | 220          | 150          | 80         |
| M8x110    | 250          | 170          | 130        |
| M10x120   | 280          | 200          | 240        |
| M10x130   | 310          | 220          | 370        |



HOOK+EYE



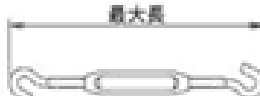
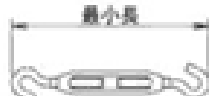
EYE+EYE



HOOK+HOOK

# US TYPE ZINC DIE CAST TURNBUCKLE

## 米国式ジंकダイキャスト ターンバックル

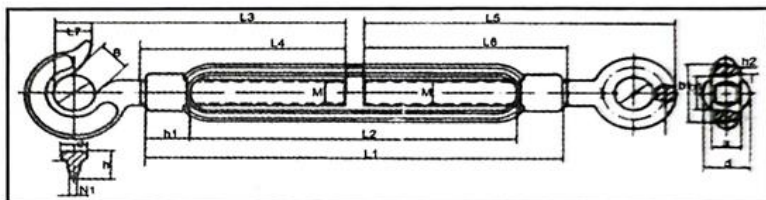


Unit: mm

| Size (in.) | L    | MAX | MIN | Weight/kg |
|------------|------|-----|-----|-----------|
|            | 5/32 | 45  | 120 | 80        |
| 3/16       | 57   | 145 | 100 | 0.03      |
| 7/32       | 68   | 165 | 110 | 0.04      |
| 1/4        | 78   | 185 | 130 | 0.07      |
| 5/16       | 95   | 240 | 170 | 0.12      |
| 3/8        | 105  | 270 | 190 | 0.19      |

# TURNBUCKLES COMMERCIAL TYPE (MALEABLE IRON)

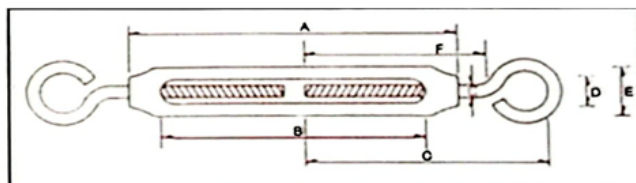
普通玛钢花兰      マリヤブル ターンバックル



| SWL<br>kg | A        | B   | C   | D  | E  | F    | G  | L   | Weight<br>each kg |
|-----------|----------|-----|-----|----|----|------|----|-----|-------------------|
| 100       | 6x100mm  | 145 | 215 | 12 | 10 | 6    | 6  | 100 | 0.16              |
| 200       | 8x125mm  | 185 | 280 | 14 | 12 | 8    | 8  | 125 | 0.24              |
| 300       | 10x150mm | 210 | 325 | 16 | 14 | 9    | 9  | 150 | 0.39              |
| 500       | 12x200mm | 275 | 430 | 19 | 18 | 11   | 11 | 200 | 0.64              |
| 1000      | 16x250mm | 345 | 540 | 23 | 24 | 11.4 | 14 | 250 | 1.44              |
| 1500      | 20x300mm | 435 | 670 | 28 | 26 | 18   | 18 | 300 | 2.45              |
| 2200      | 22x320mm | 480 | 740 | 34 | 32 | 20   | 20 | 325 | 3.60              |
| 3000      | 24x350mm | 555 | 830 | 36 | 36 | 21   | 21 | 350 | 5.00              |

# KOREAN TYPE TURNBUCKLES (MALLEABLE)

南韓式瑪鋼花蘭



| SIZE<br>inch | A   | B   | C  | D  | E  | F   | G   | WEIGHT<br>(g) |
|--------------|-----|-----|----|----|----|-----|-----|---------------|
| 5/16         | 90  | 70  | 8  | 11 | 22 | 65  | 95  | 145           |
| 3/8          | 160 | 130 | 9  | 17 | 30 | 85  | 130 | 345           |
| 1/2          | 190 | 155 | 10 | 20 | 30 | 95  | 150 | 560           |
| 1/2 (L)      | 255 | 215 | 10 | 30 | 35 | 140 | 190 | 790           |
| 5/8          | 250 | 200 | 15 | 25 | 45 | 130 | 190 | 1120          |
| 5/8 (L)      | 350 | 300 | 15 | 30 | 45 | 180 | 240 | 1540          |
| 3/4          | 250 | 200 | 20 | 35 | 45 | 140 | 210 | 1670          |
| 3/4 (L)      | 300 | 245 | 20 | 40 | 55 | 170 | 240 | 2050          |
| 7/8          | 330 | 260 | 22 | 31 | 62 | 170 | 240 | 2565          |
| 1            | 350 | 280 | 25 | 36 | 66 | 180 | 250 | 3655          |

# JAPAN RIGGING SCREW

## リギンスクリュー

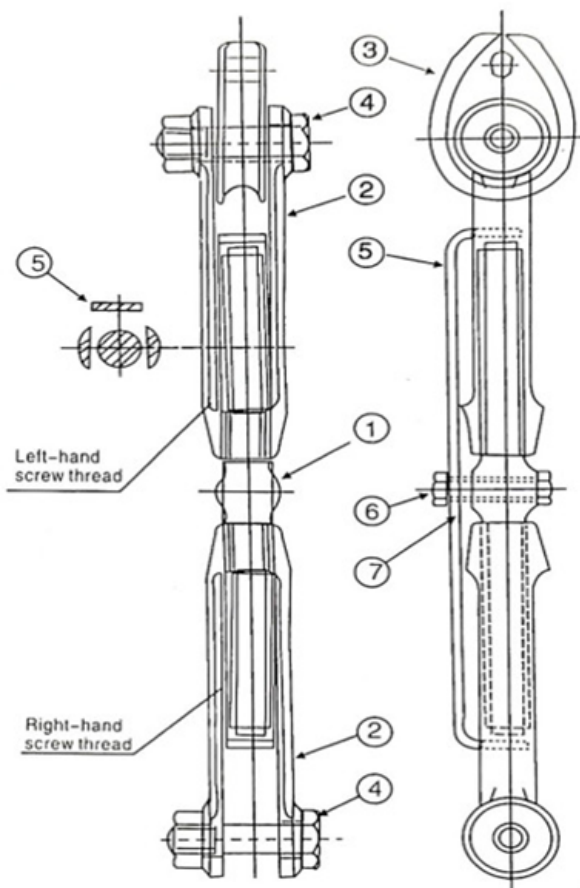
### 日式螺旋扣

Table1

| No. | Component                    | Material         |
|-----|------------------------------|------------------|
| 1   | Screw rod                    | JIS G 4051-S 25C |
| 2   | Fork                         |                  |
| 3   | Dead eye                     | JIS G 5501-FC15  |
| 4   | Joining bole and hexagon nut | JIS G 4051-S 25C |
| 5   | Check plate                  | Steel plate      |
| 6   | Fixing bolt                  | Steel bar        |
| 7   | Washer                       | Steel plate      |

(mm)

| Size | Wire Rope Diameter | Use Length |      | W. L. L. (kN) | Self-Weight (kg) |
|------|--------------------|------------|------|---------------|------------------|
|      |                    | Max        | Min  |               |                  |
| 14   | 14                 | 700        | 488  | 20.6          | 6.0              |
| 16   | 16                 | 770        | 538  | 25.5          | 8.6              |
| 18   | 18                 | 836        | 590  | 32.4          | 11.6             |
| 22   | 20 or 22.4         | 908        | 638  | 50.0          | 14.8             |
| 24   | 24                 | 968        | 688  | 57.9          | 19.4             |
| 25   | 25                 | 1004       | 720  | 67.7          | 23.9             |
| 30   | 28 or 30           | 1074       | 770  | 90.2          | 30.3             |
| 32   | 32                 | 1124       | 810  | 103.0         | 36.3             |
| 34   | 34                 | 1176       | 850  | 112.8         | 43.3             |
| 36   | 36                 | 1238       | 900  | 127.5         | 51.3             |
| 38   | 38                 | 1284       | 938  | 142.2         | 60.1             |
| 40   | 40                 | 1344       | 988  | 161.8         | 70.9             |
| 42   | 42.5               | 1444       | 1068 | 181.4         | 93.8             |
| 45   | 45                 | 1482       | 1100 | 206.0         | 105.2            |
| 48   | 47.5               | 1536       | 1140 | 226.0         | 117.2            |
| 50   | 50                 | 1556       | 1160 | 250.1         | 124.3            |



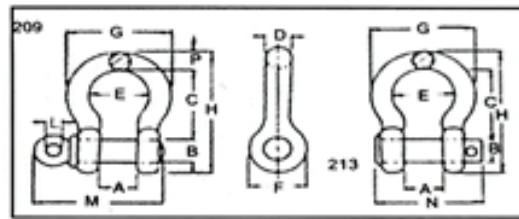


# US TYPE SHACKLE

美式弓形模鍛卸扣  
鍛造シャックル USタイプ

SCREW PIN

ROUND PIN



G-209 S-209

G-213 S-213

Screw pin anchor shackles meet the requirements of Federal Specification RR-C-271D Type IVA Grade A Class 2.

Round pin anchor shackles meet the requirements of Federal Specification RR-C-271D Type IVA Grade A Class 2.

| Nominal Size (in.) | Working load Limit (tons) | Dimensions (in.) |      |      |      |      |      |       |       |      |       |      |      | Weight Each (lbs.) |             |
|--------------------|---------------------------|------------------|------|------|------|------|------|-------|-------|------|-------|------|------|--------------------|-------------|
|                    |                           | A                | B    | C    | D    | E    | F    | G     | H     | L    | M     | N    | P    | G-209 S-209        | G-213 S-213 |
|                    |                           | 3/16             | 1/3  | 0.38 | 0.25 | 0.88 | 0.19 | 0.6   | 0.56  | 0.98 | 1.47  | 0.16 | 1.12 | —                  | 0.19        |
| 1/4                | 1/2                       | 0.47             | 0.31 | 1.13 | 0.25 | 0.78 | 0.61 | 1.28  | 1.84  | 0.19 | 1.38  | 1.34 | 0.25 | 0.12               | 0.13        |
| 5/16               | 3/4                       | 0.53             | 0.38 | 1.22 | 0.31 | 0.84 | 0.75 | 1.47  | 2.09  | 0.22 | 1.66  | 1.59 | 0.31 | 0.19               | 0.17        |
| 3/8                | 1                         | 0.66             | 0.44 | 1.44 | 0.38 | 1.03 | 0.91 | 1.78  | 2.49  | 0.25 | 2.03  | 1.86 | 0.38 | 0.31               | 0.25        |
| 7/16               | 1 1/2                     | 0.75             | 0.5  | 1.69 | 0.44 | 1.16 | 1.06 | 2.03  | 2.91  | 0.31 | 2.38  | 2.13 | 0.44 | 0.38               | 0.38        |
| 1/2                | 2                         | 0.81             | 0.63 | 1.88 | 0.5  | 1.31 | 1.19 | 2.31  | 3.28  | 0.38 | 2.69  | 2.38 | 0.5  | 0.63               | 0.7         |
| 5/8                | 3 1/4                     | 1.06             | 0.75 | 2.38 | 0.63 | 1.69 | 1.5  | 2.94  | 4.19  | 0.44 | 3.34  | 2.91 | 0.69 | 1.38               | 1.5         |
| 3/4                | 4 3/4                     | 1.25             | 0.88 | 2.81 | 0.75 | 2    | 1.81 | 3.5   | 4.97  | 0.5  | 3.97  | 3.44 | 0.81 | 2.25               | 2.32        |
| 7/8                | 6 1/2                     | 1.44             | 1    | 3.31 | 0.88 | 2.28 | 2.09 | 4.03  | 5.83  | 0.5  | 4.5   | 3.81 | 0.97 | 3.38               | 3.4         |
| 1                  | 8 1/2                     | 1.69             | 1.13 | 3.75 | 1    | 2.69 | 2.38 | 4.69  | 6.56  | 0.56 | 5.07  | 4.53 | 1.06 | 5.32               | 5           |
| 1 1/8              | 9 1/2                     | 1.81             | 1.25 | 4.25 | 1.16 | 2.91 | 2.69 | 5.16  | 7.47  | 0.63 | 5.59  | 5.13 | 1.25 | 6.81               | 6.97        |
| 1 1/4              | 12                        | 2.03             | 1.38 | 4.69 | 1.29 | 3.25 | 3    | 5.75  | 8.25  | 0.69 | 6.16  | 5.5  | 1.38 | 9.5                | 9.75        |
| 1 3/8              | 13 1/2                    | 2.25             | 1.5  | 5.25 | 1.42 | 3.63 | 3.31 | 6.38  | 9.16  | 0.75 | 6.84  | 6.13 | 1.5  | 13.25              | 13.25       |
| 1 1/2              | 17                        | 2.38             | 1.63 | 5.75 | 1.54 | 3.88 | 3.63 | 6.88  | 10    | 0.81 | 7.35  | 6.5  | 1.62 | 17.2               | 17.25       |
| 1 3/4              | 25                        | 2.88             | 2    | 7    | 1.84 | 5    | 4.19 | 8.86  | 12.34 | 1    | 9.08  | 7.75 | 2.25 | 30.38              | 29.46       |
| 2                  | 35                        | 3.25             | 2.25 | 7.75 | 2.08 | 5.75 | 4.81 | 9.97  | 13.68 | 1.22 | 10.34 | 8.75 | 2.4  | 45                 | 45.75       |
| 2 1/2              | 55                        | 4.13             | 2.75 | 10.5 | 2.71 | 7.25 | 5.69 | 12.87 | 17.84 | 1.38 | 13    | —    | 3.13 | 85.75              | —           |

NOTE \* Drop Forged, Quenched and Tempered, With Alloy Pins.

\*Max Proof Load is 2.2 Times the Working Load Limit Min Break Strength is 6 Times the WLL.

# US TYPE SHACKLE

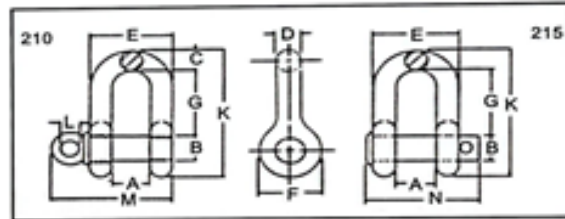
美式D形模鍛卸扣  
鍛造シャックル USタイプD型

## SCREW PIN



G-210 S-210

Screw pin chain shackles meet the requirements of Federal Specification RR-C-271D Type IVB, Grade A, Class 2.



## ROUND PIN



G-215 S-215

Round pin chain shackles meet the requirements of Federal Specification RR-C-271D Type IVB, Grade A, Class 2.

| Nominal Size (in.) | Working Load Limit (tons) | Dimensions (in.) |      |      |      |      |      |      |       |      |       |      | Weight Each (lbs.) |             |
|--------------------|---------------------------|------------------|------|------|------|------|------|------|-------|------|-------|------|--------------------|-------------|
|                    |                           | A                | B    | C    | D    | E    | F    | G    | K     | L    | M     | N    | G-210 S-210        | G-215 S-215 |
| 1/4                | 1/2                       | 0.47             | 0.31 | 0.25 | 0.25 | 0.97 | 0.61 | 0.88 | 1.59  | 0.19 | 1.38  | 1.34 | 0.11               | 0.10        |
| 5/16               | 3/4                       | 0.53             | 0.38 | 0.31 | 0.31 | 1.16 | 0.75 | 1.03 | 1.91  | 0.22 | 1.66  | 1.59 | 0.17               | 0.18        |
| 3/8                | 1                         | 0.66             | 0.44 | 0.38 | 0.38 | 1.41 | 0.91 | 1.25 | 2.30  | 0.25 | 2.03  | 1.86 | 0.24               | 0.25        |
| 7/16               | 1 1/2                     | 0.75             | 0.50 | 0.44 | 0.44 | 1.63 | 1.06 | 1.44 | 2.66  | 0.31 | 2.38  | 2.13 | 0.40               | 0.38        |
| 1/2                | 2                         | 0.81             | 0.63 | 0.50 | 0.50 | 1.81 | 1.19 | 1.63 | 3.03  | 0.38 | 2.69  | 2.38 | 0.59               | 0.50        |
| 5/8                | 3 1/2                     | 1.06             | 0.75 | 0.62 | 0.63 | 2.31 | 1.50 | 2.00 | 3.75  | 0.44 | 3.34  | 2.91 | 1.21               | 1.21        |
| 3/4                | 4 3/4                     | 1.25             | 0.88 | 0.81 | 0.75 | 2.75 | 1.81 | 2.38 | 4.53  | 0.50 | 3.97  | 3.44 | 2.25               | 2.00        |
| 7/8                | 6 1/2                     | 1.44             | 1.00 | 0.97 | 0.88 | 3.19 | 2.09 | 2.81 | 5.33  | 0.50 | 4.50  | 3.81 | 3.16               | 3.28        |
| 1                  | 8 1/2                     | 1.69             | 1.13 | 1.00 | 1.00 | 3.69 | 2.38 | 3.19 | 5.94  | 0.56 | 5.07  | 4.53 | 4.75               | 4.75        |
| 1 1/8              | 9 1/2                     | 1.81             | 1.25 | 1.25 | 1.13 | 4.06 | 2.69 | 3.58 | 6.78  | 0.63 | 5.59  | 5.13 | 6.75               | 6.30        |
| 1 1/4              | 12                        | 2.03             | 1.38 | 1.38 | 1.25 | 4.53 | 3.00 | 3.94 | 7.50  | 0.69 | 6.16  | 5.50 | 9.06               | 9.00        |
| 1 3/8              | 13 1/2                    | 2.25             | 1.50 | 1.50 | 1.38 | 5.00 | 3.31 | 4.38 | 8.28  | 0.75 | 6.84  | 6.13 | 11.63              | 12.00       |
| 1 1/2              | 17                        | 2.38             | 1.62 | 1.62 | 1.50 | 5.38 | 3.62 | 4.81 | 9.06  | 0.81 | 7.35  | 6.50 | 15.95              | 16.15       |
| 1 3/4              | 25                        | 2.88             | 2.12 | 2.12 | 1.75 | 6.38 | 4.19 | 5.75 | 10.97 | 1.00 | 9.08  | 7.75 | 26.75              | 29.96       |
| 2                  | 32                        | 3.25             | 2.00 | 2.00 | 2.00 | 7.25 | 4.81 | 6.75 | 12.28 | 1.22 | 10.34 | 8.75 | 42.31              | 43.25       |
| 2 1/2              | 55                        | 4.13             | 2.62 | 2.62 | 2.62 | 9.38 | 5.69 | 8.00 | 14.84 | 1.38 | 13.00 | —    | 71.75              | —           |

NOTE: \*Drop Forged, Quenched and Tempered, With Alloy Pins.

\*Max Proof Load is 2.2 Times the Working Load Limit, Min Break Strength is 6 Times the WLL

# US TYPE SHACKLE

## 美式模鍛保險卸扣

鍛造シャックル G-2130/G-2150

### BOLT TYPE ANCHOR SHACKLE



G-2130 S-2130

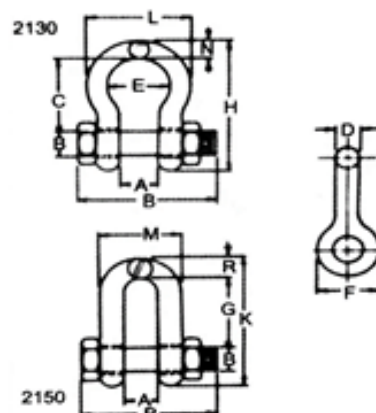
Bolt Type Anchor shackles with thin head bolt-nut with cotter pin.Meets the requirements of Federal Specification RR-C-271D Type IVA,Grade A,Class 3.

### BOLT TYPE CHAIN SHACKLE



G-2150 S-2150

Bolt Type Anchor shackles with thin head bolt-nut cotter pin.Meets the requirements of Federal Specification RR-C-271D Type IVA,Grade A,Class 3.



| Nominal Shackle Size (in.) | Working Load Limit (tons) | Nominal Working Dimensions (in.) |      |       |      |       |      |      |       |       |       |       |      |       |      | 2130 Weight (lbs.) | 2150 Weight (lbs.) |
|----------------------------|---------------------------|----------------------------------|------|-------|------|-------|------|------|-------|-------|-------|-------|------|-------|------|--------------------|--------------------|
|                            |                           | A                                | B    | C     | D    | E     | F    | G    | H     | K     | L     | M     | N    | P     | R    |                    |                    |
| 3/16                       | 1/3                       | 0.38                             | 0.25 | 0.88  | 0.19 | 0.60  | 0.56 | —    | 1.47  | —     | 0.98  | —     | 0.19 | 1.29  | —    | 0.06               | —                  |
| 1/4                        | 1/2                       | 0.47                             | 0.31 | 1.13  | 0.25 | 0.78  | 0.61 | —    | 1.84  | —     | 1.28  | —     | 0.25 | 1.56  | —    | 0.17               | 0.13               |
| 5/16                       | 3/4                       | 0.53                             | 0.38 | 1.22  | 0.31 | 0.84  | 0.75 | —    | 2.09  | —     | 1.47  | —     | 0.31 | 1.82  | —    | 0.22               | 0.23               |
| 3/8                        | 1                         | 0.66                             | 0.44 | 1.44  | 0.38 | 1.03  | 0.91 | —    | 2.49  | —     | 1.78  | —     | 0.38 | 2.17  | —    | 0.33               | 0.33               |
| 7/16                       | 1 1/2                     | 0.75                             | 0.50 | 1.69  | 0.44 | 1.16  | 1.06 | —    | 2.91  | —     | 2.03  | —     | 0.44 | 2.51  | —    | 0.49               | 0.49               |
| 1/2                        | 2                         | 0.81                             | 0.63 | 1.88  | 0.50 | 1.31  | 1.19 | 1.63 | 3.28  | 3.03  | 2.31  | 1.81  | 0.50 | 2.80  | 0.50 | 0.79               | 0.75               |
| 5/8                        | 3 1/4                     | 1.06                             | 0.75 | 2.38  | 0.63 | 1.69  | 1.50 | 2.00 | 4.19  | 3.75  | 2.94  | 2.31  | 0.69 | 3.53  | 0.63 | 1.68               | 1.47               |
| 3/4                        | 4 3/4                     | 1.25                             | 0.88 | 2.81  | 0.75 | 2.00  | 1.81 | 2.38 | 4.97  | 4.53  | 3.50  | 2.75  | 0.81 | 4.07  | 0.81 | 2.72               | 2.58               |
| 7/8                        | 6 1/2                     | 1.44                             | 1.00 | 3.31  | 0.88 | 2.28  | 2.09 | 2.81 | 5.83  | 5.33  | 4.03  | 3.19  | 0.97 | 4.71  | 0.97 | 3.95               | 3.85               |
| 1                          | 8 1/2                     | 1.69                             | 1.13 | 3.75  | 1.00 | 2.69  | 2.38 | 3.19 | 6.56  | 5.94  | 4.96  | 3.69  | 1.06 | 5.31  | 1.06 | 6.12               | 5.95               |
| 1 1/8                      | 9 1/2                     | 1.81                             | 1.25 | 4.25  | 1.13 | 2.91  | 2.69 | 3.58 | 7.47  | 6.78  | 5.16  | 4.06  | 1.23 | 5.09  | 1.23 | 8.27               | 7.60               |
| 1 1/4                      | 12                        | 2.03                             | 1.38 | 4.69  | 1.25 | 3.25  | 3.00 | 3.94 | 8.25  | 7.50  | 5.75  | 4.53  | 1.38 | 6.51  | 1.38 | 11.71              | 10.81              |
| 1 3/8                      | 13 1/2                    | 2.25                             | 1.50 | 5.25  | 1.38 | 3.63  | 3.31 | 4.38 | 9.16  | 8.28  | 6.38  | 5.00  | 1.50 | 7.21  | 1.50 | 13.83              | 13.73              |
| 1 1/2                      | 17                        | 2.38                             | 1.63 | 5.75  | 1.50 | 3.88  | 3.63 | 4.81 | 10.00 | 9.06  | 6.88  | 5.38  | 1.62 | 7.73  | 1.62 | 20.80              | 18.50              |
| 1 3/4                      | 25                        | 2.88                             | 2.00 | 7.00  | 1.75 | 5.00  | 4.19 | 5.75 | 12.34 | 10.97 | 8.86  | 6.38  | 2.25 | 9.05  | 2.12 | 33.91              | 31.40              |
| 2                          | 35                        | 3.25                             | 2.25 | 7.75  | 2.00 | 5.75  | 4.85 | 6.75 | 13.68 | 12.28 | 9.97  | 7.25  | 2.40 | 10.41 | 2.00 | 52.25              | 46.75              |
| 2 1/2                      | 55                        | 4.13                             | 2.75 | 10.50 | 2.62 | 7.25  | 5.69 | 8.00 | 17.84 | 14.84 | 12.87 | 9.38  | 3.13 | 13.56 | 2.62 | 98.25              | 85.00              |
| 3                          | 85                        | 5.00                             | 3.25 | 13.00 | 3.00 | 7.88  | 6.50 | 8.50 | 21.50 | 16.88 | 14.36 | 11.00 | 3.62 | 16.50 | 3.50 | 154.00             | 124.25             |
| 3 1/2                      | 120                       | 5.25                             | 3.75 | 13.63 | 6.62 | 9.00  | 8.00 | —    | 24.63 | —     | 16.50 | —     | 4.12 | 19.00 | —    | 265.00             | —                  |
| 4                          | 150                       | 5.50                             | 4.25 | 14.50 | 4.10 | 10.00 | 9.00 | —    | 25.69 | —     | 18.12 | —     | 4.56 | 19.75 | —    | 338.00             | —                  |

NOTE: \*Drop Forged,Quenched and Tempered,With Alloy Pins.  
 \*Max Proof Load is 2.2 Times the Working Load Limit.Min Break Strenath is 6 Times the WLL.

# SHACKLES Commercial Type JIS Standard

日式卸扣

掙シヤックル

① Screw Pin Chain Shackle  
"D" Type Without Collar

② Screw Pin Chain Shackle  
"D" Type With Collar

③ Screw Pin Anchor Shackle  
"HARP" Type Without Collar

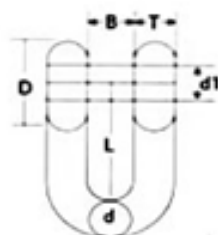
④ Screw Pin Anchor Shackle  
"HARP" Type With Collar



⑤ Oval Pin Chain Shackle

⑥ Carver Shackle with Counter Sunk Slotted Head

⑦ Trawling Chain Shackle



① ② ⑥ Sizes(Approx.)

Weights(Approx.)

| Nominal Size |       | B   | D   | L    | d1  | SWL  | ①     | ②     | ③     | ④     | ⑤     | ⑥     | ⑦     | ⑧     |
|--------------|-------|-----|-----|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|
| M/M          | in    | M/M | M/M | M/M  | M/M | Ton  | kg    | kg    | kg    | kg    | kg    | kg    | kg    | kg    |
| 4.8          | 3/16  | 10  | 10  | 18.5 | 5   | 0.09 | 0.013 | 0.014 | 0.024 | 0.026 | --    | --    | --    | --    |
| 6            | 1/4   | 12  | 11  | 25   | 6.5 | 0.15 | 0.026 | 0.028 | 0.062 | 0.028 | --    | --    | --    | --    |
| 8            | 5/16  | 14  | 15  | 31   | 8.5 | 0.25 | 0.046 | 0.049 | 0.062 | 0.065 | --    | --    | --    | --    |
| 9            | 3/8   | 18  | 17  | 36   | 10  | 0.4  | 0.07  | 0.049 | 0.077 | 0.08  | 0.073 | 0.065 | 0.075 | 0.1   |
| 12           | 1/2   | 24  | 23  | 46   | 13  | 0.6  | 0.17  | 0.18  | 0.19  | 0.2   | 0.15  | 0.17  | 0.186 | 0.215 |
| 16           | 5/8   | 30  | 32  | 59   | 17  | 0.8  | 0.4   | 0.42  | 0.475 | 0.495 | 0.37  | 0.41  | 0.455 | 0.5   |
| 19           | 3/4   | 36  | 37  | 74   | 20  | 1    | 0.7   | 0.72  | 0.78  | 0.8   | 0.62  | 0.67  | 0.78  | 0.83  |
| 22           | 7/8   | 43  | 43  | 86   | 23  | 1.5  | 1.1   | 1.18  | 1.18  | 1.26  | 1     | 1.1   | 1.4   | 1.3   |
| 25           | 1     | 47  | 50  | 95   | 27  | 2    | 1.7   | 1.8   | 1.8   | 1.9   | 1.53  | 1.6   | 1.75  | 2.05  |
| 28           | 1 1/8 | 55  | 56  | 110  | 30  | 2.5  | 2.4   | 2.5   | 2.55  | 2.65  | 2.2   | 2.35  | 2.4   | 3     |
| 32           | 1 1/4 | 64  | 64  | 130  | 34  | 3.2  | 3.6   | 3.7   | 3.9   | 4     | 3.2   | 3.35  | 3.6   | 4.23  |
| 38           | 1 1/2 | 76  | 76  | 145  | 40  | 4.2  | 6     | 6.1   | 6.9   | 7     | 5.25  | 5.7   | 6     | 7.1   |
| 44           | 1 3/4 | 80  | 90  | 160  | 47  | 6.5  | 10    | --    | --    | --    | --    | --    | --    | 10.7  |
| 50           | 2     | 90  | 100 | 185  | 53  | 8    | 12    | --    | --    | --    | --    | --    | --    | 17    |
| 65           | 2 1/2 | 110 | 130 | 240  | 68  | 15   | 28    | --    | --    | --    | --    | --    | --    | 33    |
| 75           | 3     | 120 | 150 | 300  | 78  | 20   | 44    | --    | --    | --    | --    | --    | --    | 50    |

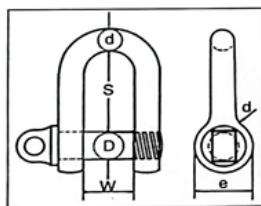
NOTE: MATERIAL: Mild Carbon Steel & Stainless Steel ANSI 304/316.

# LARGE DEE SHACKLES

大DEE型卸扣BS 3032

ヨーロッパ式 Dシャックル BS3032

BS 3032:1958  
Higher Tensile Steel  
MB Proof load=2xSafe working load (w)



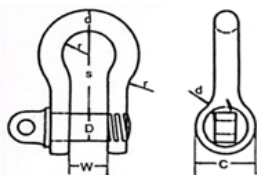
|         |                 | d                     | D              | W              | S              | e              |                   |
|---------|-----------------|-----------------------|----------------|----------------|----------------|----------------|-------------------|
| W=Safe  |                 | d=                    | D=             | W=             | S=             | e=             | Weight<br>each/kg |
| Working | Lod<br>tons cwt | $0.49\sqrt{W}$<br>in. | $0.56W$<br>in. | $0.95W$<br>in. | $0.81W$<br>in. | $1.12W$<br>in. |                   |
|         | 5               | 1/4                   | 3/8            | 1/2            | 1              | 3/4            | 0.1               |
|         | 10              | 3/8                   | 1/2            | 3/4            | 1 1/2          | 1              | 0.2               |
|         | 15              | 1/2                   | 5/8            | 1 1/8          | 2 1/8          | 1 1/4          | 0.4               |
| 1       | 10              | 5/8                   | 3/4            | 1 1/4          | 2 1/2          | 1 1/2          | 0.7               |
| 2       | 0               | 3/4                   | 7/8            | 1 1/2          | 2 7/8          | 1 3/4          | 1.0               |
| 3       | 0               | 7/8                   | 1/1            | 1 3/4          | 3 1/4          | 2              | 1.6               |
| 3       | 15              | 1                     | 1/8            | 2              | 3 3/4          | 2 1/4          | 2.3               |
| 5       | 0               | 1 1/3                 | 1 1/4          | 2 1/8          | 4 1/8          | 2 1/2          | 3.2               |
| 6       | 0               | 1 1/4                 | 1 3/8          | 2 3/8          | 2 1/2          | 2 3/4          | 4.3               |
| 7       | 0               | 1 3/8                 | 1 1/2          | 2 5/8          | 5              | 3              | 5.4               |
| 9       | 10              | 1 1/2                 | 1 3/4          | 2 3/4          | 5 3/8          | 3 1/2          | 6.8               |
| 11      | 5               | 1 5/8                 | 1 7/8          | 3              | 5 3/4          | 3 3/4          | 8.7               |
| 13      | 0               | 1 3/4                 | 2              | 3 1/4          | 6 1/8          | 4              | 11.0              |
| 14      | 5               | 1 7/8                 | 2 1/8          | 3 5/8          | 7              | 4 1/4          | 14.3              |
| 16      | 5               | 2                     |                |                | 7 3/8          | 4 1/2          | 20.0              |

# LARGE BOW SHACKLES

大弓型卸扣BS3032

ヨーロッパ式シャックル BS3032

BS 3032:1958  
Higher Tensile Steel  
MB Proof load=2xSafe working load(w)



| SWL   | d mm | D mm | W mm | 2r mm | S mm | e mm | Weight<br>pce/kg |
|-------|------|------|------|-------|------|------|------------------|
| 150   | 6    | 10   | 13   | 19    | 29   | 19   | 29               |
| 450   | 10   | 12   | 16   | 25    | 41   | 25   | 41               |
| 750   | 12   | 16   | 22   | 32    | 54   | 32   | 54               |
| 1250  | 16   | 20   | 29   | 41    | 70   | 38   | 70               |
| 2000  | 20   | 22   | 35   | 51    | 86   | 44   | 86               |
| 2750  | 22   | 25   | 41   | 57    | 98   | 51   | 98               |
| 3750  | 25   | 28   | 44   | 64    | 108  | 57   | 108              |
| 4750  | 28   | 32   | 51   | 73    | 124  | 64   | 124              |
| 5750  | 32   | 35   | 57   | 83    | 137  | 70   | 137              |
| 8500  | 38   | 44   | 70   | 98    | 168  | 89   | 168              |
| 11500 | 45   | 51   | 86   | 121   | 206  | 102  | 206              |
| 15000 | 50   | 57   | 98   | 140   | 238  | 114  | 238              |

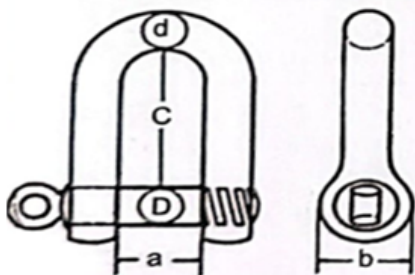
# EUROPEAN TYPE LARGE DEE SHACKLES

歐式大DEE卸扣

ネジ込みアンカーシャックル

SAME SIZE DIAMETER PIN WITH BODY

| SWL  | D  | d  | a   | c   | b   | Weight<br>per 100 pce |
|------|----|----|-----|-----|-----|-----------------------|
| kg   | mm | mm | mm  | mm  | mm  | kg                    |
| 80   | 5  | 5  | 10  | 19  | 11  | 1.9                   |
| 100  | 6  | 6  | 13  | 25  | 14  | 3.4                   |
| 200  | 8  | 8  | 16  | 32  | 18  | 7                     |
| 320  | 10 | 10 | 19  | 38  | 20  | 13                    |
| 520  | 12 | 12 | 25  | 51  | 26  | 24                    |
| 800  | 16 | 16 | 32  | 64  | 33  | 50                    |
| 1100 | 20 | 20 | 38  | 76  | 40  | 80                    |
| 1500 | 22 | 22 | 44  | 89  | 50  | 130                   |
| 2100 | 25 | 25 | 51  | 100 | 57  | 200                   |
| 3000 | 28 | 28 | 57  | 115 | 68  | 300                   |
| 3500 | 32 | 32 | 64  | 127 | 73  | 430                   |
| 5000 | 38 | 38 | 76  | 152 | 85  | 700                   |
| 7000 | 45 | 45 | 90  | 180 | 96  | 1250                  |
| 8000 | 50 | 50 | 102 | 200 | 108 | 1750                  |



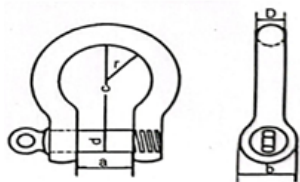
# EUROPEAN TYPE LARGE BOW SHACKLES

歐式大弓形卸扣

ヨーロッパ式 D シャックル

SAME SIZE DIAMETER PIN WITH BODY

| SWL  | D  | d  | a   | C   | r  | d   | Approx<br>100 pce/WT |
|------|----|----|-----|-----|----|-----|----------------------|
| kg   | mm | ww | mm  | mm  | ww | ww  | kg                   |
| 80   | 5  | 5  | 10  | 19  | 8  | 11  | 1.9                  |
| 100  | 6  | 6  | 13  | 25  | 10 | 14  | 3.4                  |
| 200  | 8  | 8  | 16  | 32  | 12 | 18  | 7                    |
| 320  | 10 | 10 | 19  | 38  | 16 | 20  | 13                   |
| 520  | 12 | 12 | 25  | 51  | 19 | 26  | 26                   |
| 800  | 16 | 16 | 32  | 64  | 28 | 33  | 50                   |
| 1100 | 20 | 20 | 38  | 76  | 33 | 40  | 80                   |
| 1500 | 22 | 22 | 44  | 89  | 37 | 50  | 130                  |
| 2100 | 25 | 25 | 51  | 100 | 40 | 57  | 200                  |
| 3000 | 28 | 28 | 57  | 115 | 47 | 68  | 310                  |
| 3500 | 32 | 32 | 64  | 127 | 52 | 73  | 430                  |
| 5000 | 38 | 38 | 76  | 152 | 63 | 85  | 700                  |
| 7000 | 45 | 45 | 90  | 180 | 75 | 96  | 1250                 |
| 8000 | 50 | 50 | 102 | 200 | 78 | 108 | 1750                 |



NOTE: MATERIAL: Mild Carbon Steel & Stainless Steel ANSI 304/316.

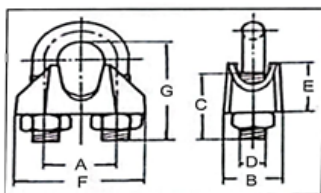
# DIN741 GALV MALLEABLE WIRE ROPE CLIPS

德制741卡頭

ワイヤークリップ DINタイプ マリヤブル製

DIN 741

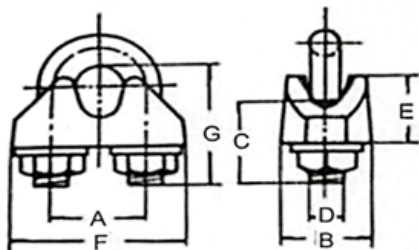
| Size |      | A  | B  | C  | D  | E  | F  | G   | 100/WT<br>kg |
|------|------|----|----|----|----|----|----|-----|--------------|
| mm   | in   |    |    |    |    |    |    |     |              |
| 3    | 1/8  | 9  | 10 | 12 | 4  | 10 | 21 | 16  | 1.4          |
| 5    | 3/16 | 11 | 11 | 13 | 5  | 10 | 23 | 19  | 1.5          |
| 6.5  | 1/4  | 13 | 12 | 15 | 5  | 11 | 26 | 23  | 2.1          |
| 8    | 5/16 | 16 | 14 | 19 | 6  | 15 | 30 | 28  | 4.1          |
| 10   | 3/8  | 19 | 18 | 22 | 8  | 17 | 34 | 34  | 6.8          |
| 11   | 7/16 | 20 | 19 | 22 | 8  | 18 | 36 | 36  | 7.2          |
| 13   | 1/2  | 24 | 23 | 30 | 10 | 21 | 42 | 45  | 13           |
| 14   | 9/16 | 25 | 23 | 30 | 10 | 22 | 44 | 47  | 13.5         |
| 16   | 5/8  | 29 | 26 | 33 | 12 | 26 | 50 | 51  | 21           |
| 19   | 3/4  | 32 | 29 | 38 | 12 | 30 | 54 | 63  | 28           |
| 22   | 7/8  | 37 | 33 | 44 | 14 | 34 | 61 | 71  | 40           |
| 26   | 1    | 41 | 35 | 45 | 14 | 37 | 65 | 81  | 44           |
| 30   | 11/8 | 48 | 37 | 50 | 16 | 43 | 74 | 94  | 66           |
| 34   | 11/4 | 52 | 42 | 55 | 16 | 50 | 80 | 104 | 85           |
| 40   | 11/2 | 58 | 45 | 60 | 16 | 55 | 88 | 124 | 104          |



# DIN1142 GALV MALLEABLE WIRE ROPE CLIPS

德制1142卡頭

ワイヤークリップ DINタイプ1142



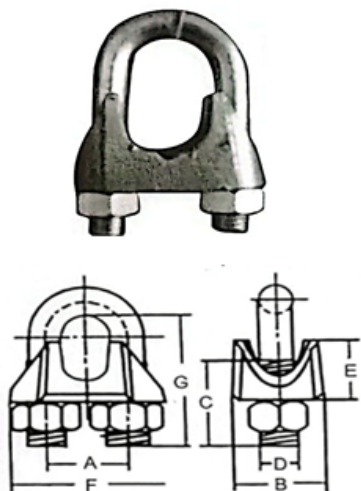
| Size<br>mm | A  | B  | C  | D  | E  | F   | G   | 100/WT<br>kg |
|------------|----|----|----|----|----|-----|-----|--------------|
| 5          | 12 | 13 | 13 | 5  | 13 | 25  | 20  | 2.08         |
| 6.5        | 14 | 16 | 17 | 6  | 14 | 30  | 26  | 4            |
| 8          | 18 | 20 | 20 | 8  | 18 | 39  | 33  | 8.2          |
| 10         | 20 | 20 | 24 | 8  | 21 | 40  | 38  | 9.2          |
| 13         | 17 | 28 | 30 | 12 | 29 | 55  | 52  | 27.5         |
| 16         | 32 | 32 | 35 | 14 | 35 | 64  | 64  | 43           |
| 19         | 36 | 32 | 36 | 14 | 40 | 68  | 69  | 49           |
| 22         | 40 | 34 | 40 | 16 | 44 | 74  | 80  | 68           |
| 26         | 46 | 38 | 50 | 20 | 51 | 84  | 91  | 117          |
| 30         | 54 | 41 | 55 | 20 | 59 | 95  | 107 | 140          |
| 34         | 60 | 45 | 60 | 22 | 67 | 105 | 119 | 213          |
| 40         | 68 | 49 | 65 | 24 | 77 | 117 | 135 | 268          |

# U.S. TYPE GALV MALLEABLE WIRE ROPE CLIPS

美式瑪鋼卡頭

ワイヤークリップ USタイプ マリヤブル製

FF-C-450 TYPE 1 CLASS 2



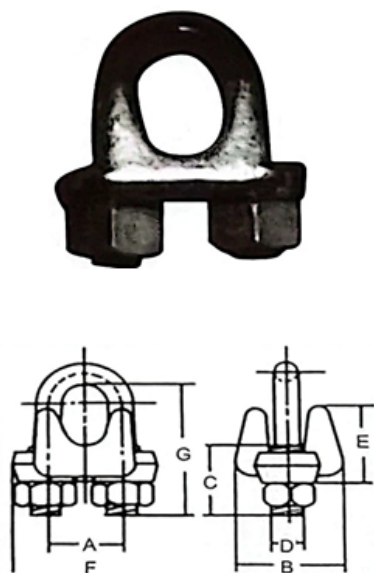
| size<br>in | A    | B    | C  | D       | E    | F    | G    | 100/WT<br>kg |
|------------|------|------|----|---------|------|------|------|--------------|
| 1/8        | 11   | 14   | 14 | 10-24   | 10.8 | 22   | 20   | 1.5          |
| 3/16       | 13.5 | 15   | 16 | 1/4-20  | 13   | 26   | 14   | 3            |
| 1/4        | 17   | 18.5 | 20 | 5/16-18 | 15   | 32   | 31.5 | 5.18         |
| 5/16       | 18.3 | 20   | 22 | 5/16-18 | 16   | 35   | 34   | 5.95         |
| 3/8        | 22.5 | 22   | 27 | 3/8-16  | 22   | 40.5 | 41.8 | 10.01        |
| 7/16       | 24   | 23   | 30 | 3/8-16  | 22   | 43   | 42.8 | 11.43        |
| 1/2        | 27   | 26   | 35 | 7/16-14 | 23.3 | 49   | 53.9 | 17.42        |
| 9/16       | 30   | 26.5 | 40 | 1/2-13  | 27   | 52.5 | 54.7 | 22.56        |
| 5/8        | 33   | 28.5 | 40 | 1/2-13  | 28   | 57.5 | 59.2 | 24.84        |
| 3/4        | 34.5 | 32   | 42 | 9/16-12 | 34   | 61   | 68.7 | 36.53        |
| 7/8        | 41   | 37   | 46 | 5/8-11  | 38   | 71   | 78   | 53.23        |
| 1          | 45.5 | 42   | 55 | 5/8-11  | 43   | 77.5 | 87.5 | 68.32        |

# DROP FORGED WIRE ROPE CLIPS US TYPE

美式模鍛卡頭

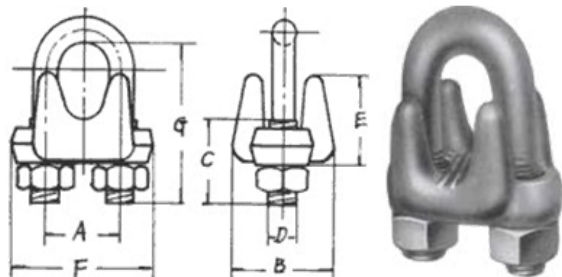
ワイヤークリップ USタイプ 鍛造

FF-C-450 TYPE 1 CLASS 1



| size<br>in | A  | B  | C  | D    | E  | F   | G   | 100/WT<br>kg |
|------------|----|----|----|------|----|-----|-----|--------------|
| 1/8        | 12 | 20 | 11 | 7/32 | 10 | 23  | 18  | 2.3          |
| 3/16       | 15 | 23 | 14 | 1/4  | 12 | 29  | 24  | 4            |
| 1/4        | 19 | 30 | 15 | 5/16 | 16 | 36  | 26  | 8            |
| 5/16       | 22 | 33 | 19 | 3/8  | 18 | 43  | 35  | 14           |
| 3/8        | 25 | 41 | 19 | 7/16 | 23 | 49  | 38  | 19           |
| 7/16       | 30 | 46 | 25 | 1/2  | 26 | 58  | 47  | 32           |
| 1/2        | 30 | 48 | 25 | 1/2  | 28 | 58  | 47  | 34           |
| 9/16       | 33 | 52 | 32 | 9/16 | 31 | 63  | 57  | 45           |
| 5/8        | 33 | 52 | 32 | 9/16 | 34 | 63  | 60  | 45           |
| 3/4        | 38 | 57 | 36 | 5/8  | 35 | 72  | 70  | 68           |
| 7/8        | 44 | 62 | 41 | 3/4  | 40 | 80  | 79  | 109          |
| 1          | 47 | 66 | 46 | 3/4  | 45 | 88  | 89  | 113          |
| 11/8       | 51 | 71 | 51 | 3/4  | 48 | 91  | 98  | 131          |
| 11/4       | 59 | 80 | 54 | 7/8  | 56 | 105 | 108 | 195          |
| 13/8       | 60 | 80 | 59 | 7/8  | 59 | 106 | 118 | 209          |
| 11/2       | 66 | 87 | 60 | 7/8  | 62 | 113 | 125 | 245          |
| 15/8       | 70 | 92 | 66 | 1    | 68 | 121 | 135 | 318          |





**JIS A-TYPE MALLEABLE  
WIRE ROPE CLIP**

**JIS A-タイプ マリヤブル  
ワイヤーロープクリップ**

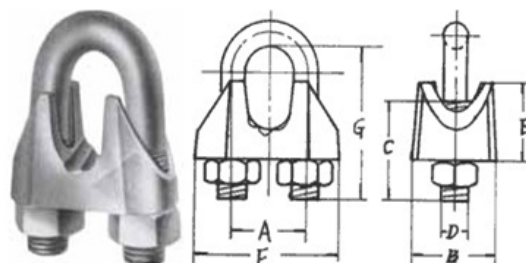
日式A型卡头

| Size<br>(mm) | Dimensions (mm) |    |    |    |    |     |     |
|--------------|-----------------|----|----|----|----|-----|-----|
|              | A               | B  | C  | D  | E  | F   | G   |
| 6            | 12              | 17 | 14 | 5  | 14 | 23  | 24  |
| 8            | 15              | 21 | 16 | 6  | 17 | 28  | 30  |
| 10           | 19              | 28 | 20 | 8  | 21 | 38  | 37  |
| 12           | 24              | 34 | 25 | 10 | 27 | 45  | 47  |
| 15           | 29              | 40 | 30 | 12 | 32 | 52  | 56  |
| 20           | 36              | 47 | 36 | 14 | 38 | 62  | 70  |
| 22           | 40              | 52 | 39 | 16 | 43 | 69  | 77  |
| 25           | 43              | 56 | 44 | 18 | 50 | 76  | 85  |
| 28           | 48              | 62 | 48 | 20 | 57 | 85  | 95  |
| 32           | 55              | 67 | 51 | 22 | 61 | 93  | 108 |
| 40           | 64              | 81 | 62 | 24 | 73 | 111 | 120 |
| 45           | 72              | 88 | 70 | 27 | 86 | 123 | 137 |
| 50           | 80              | 95 | 80 | 30 | 95 | 135 | 154 |

**JIS B-TYPE MALLEABLE  
WIRE ROPE CLIP**

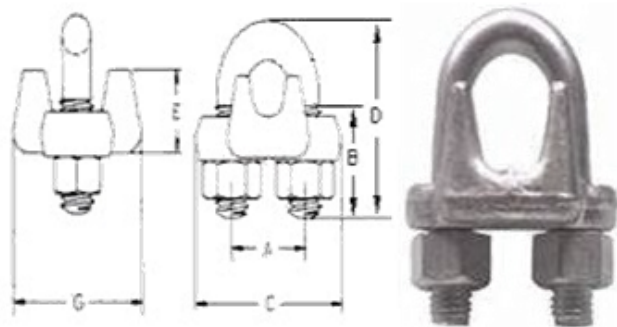
**JIS B-タイプ マリヤブル  
ワイヤーロープクリップ**

日式B型卡头



| Size<br>(in) | Dimensions (mm) |      |    |    |      |      |    |
|--------------|-----------------|------|----|----|------|------|----|
|              | A               | B    | C  | D  | E    | F    | G  |
| 1/8          | 9               | 12   | 12 | 4  | 9.5  | 19   | 20 |
| 3/16         | 11              | 13.5 | 14 | 5  | 10.8 | 22   | 26 |
| 1/4          | 12.5            | 15.5 | 14 | 6  | 11.5 | 25   | 26 |
| 5/16         | 15.5            | 18   | 16 | 6  | 16   | 31   | 31 |
| 3/8          | 21              | 22   | 20 | 8  | 20   | 40   | 37 |
| 1/2          | 25              | 25   | 24 | 10 | 26   | 47   | 46 |
| 5/8          | 30              | 28   | 28 | 12 | 31   | 55   | 57 |
| 11/16        | 33              | 28.5 | 30 | 12 | 35   | 58.5 | 64 |
| 3/4          | 36.5            | 31   | 34 | 16 | 36   | 65   | 71 |
| 7/8          | 40              | 36   | 38 | 16 | 43   | 72   | 77 |
| 1            | 45              | 40   | 44 | 20 | 48   | 80   | 88 |

# DROP FORGED WIRE POPE CLIPS JIS TYPE



**JISタイプ B-2809 鍛造  
ワイヤーロープクリップ**

日式模锻卡头

| Nominal Size<br>(mm) | Dimensions(mm) |    |    |     |    |    |
|----------------------|----------------|----|----|-----|----|----|
|                      | A              | B  | C  | D   | E  | G  |
| 6                    | 14             | 20 | 29 | 35  | 17 | 24 |
| 8                    | 18             | 20 | 36 | 40  | 19 | 31 |
| 10                   | 22             | 28 | 45 | 50  | 23 | 35 |
| 12                   | 26             | 35 | 51 | 60  | 28 | 39 |
| 14                   | 28             | 40 | 53 | 65  | 32 | 45 |
| 16                   | 32             | 45 | 60 | 75  | 36 | 48 |
| 18                   | 34             | 50 | 62 | 80  | 38 | 53 |
| 20-22                | 44             | 60 | 78 | 100 | 45 | 62 |
| 24-25                | 48             | 65 | 86 | 110 | 49 | 68 |



**SINGLE WIRE ROPE CLIP**

シングル  
ワイヤーロープクリップ  
单卡

| Rope Size<br>(mm) | Thread | N.W./1000<br>(kg) |
|-------------------|--------|-------------------|
| 2                 | M3     | 5                 |
| 3                 | M4     | 7                 |
| 4                 | M5     | 13                |
| 5                 | M5     | 17                |
| 6                 | M6     | 25                |
| 7                 | M6     | 28                |
| 8                 | M8     | 52                |
| 10                | M10    | 92                |



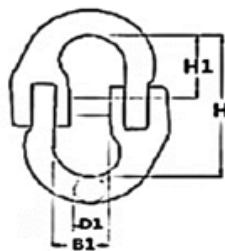
**DOUBLE WIRE ROPE CLIP**

ダブル  
ワイヤーロープクリップ  
双卡

| Rope Size<br>(mm) | Thread | N.W./1000<br>(kg) |
|-------------------|--------|-------------------|
| 2                 | M3     | 9                 |
| 3                 | M4     | 14                |
| 4                 | M5     | 25                |
| 5                 | M5     | 34                |
| 6                 | M6     | 50                |
| 7                 | M6     | 70                |
| 8                 | M8     | 105               |
| 10                | M10    | 180               |

## G80 CONNECTING LINK

### G80连接双环扣 カップリング



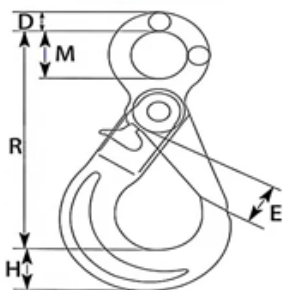
| Size    | Chain     | Dimensions(mm) |      |      |       | W. L. L. | Weight |
|---------|-----------|----------------|------|------|-------|----------|--------|
|         | Size (mm) | B1             | D1   | H1   | H     | (T)      | (KG)   |
| 6-8     | 6         | 15.2           | 7.5  | 18.5 | 45.5  | 1.1      | 0.1    |
| 7/8-8   | 7/8       | 19.2           | 9.0  | 24.0 | 59.5  | 1.5      | 0.2    |
| 10-8    | 10        | 25.0           | 11.8 | 28.0 | 69.8  | 3.2      | 0.3    |
| 13-8    | 13        | 30.0           | 15.0 | 36.5 | 89.0  | 5.3      | 0.7    |
| 16-8    | 16        | 36.0           | 19.0 | 41.0 | 102.0 | 8.0      | 1.2    |
| 18/20-8 | 20        | 42.0           | 23.0 | 49.0 | 119.0 | 12.5     | 1.8    |
| 22-8    | 22        | 49.0           | 24.5 | 63.0 | 152.5 | 15.0     | 3.1    |
| 26-8    | 26        | 58.5           | 31.5 | 69.0 | 162.4 | 21.2     | 5.3    |
| 32-8    | 32        | 67.5           | 38.5 | 79.0 | 194.0 | 31.5     | 9.4    |

Minimum Breaking load=4×W.L.L.(Working load Limited)

## G80 SELF LOCKING EYE SAFETY HOOK

### G80眼形自锁钩

### G80 アイロッキングフック



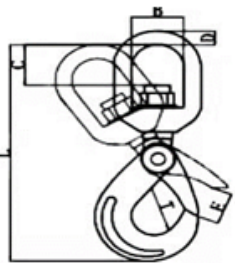
| Chain<br>Size(mm) | Dimensions(mm) |       |       |      | W. L. L. | Weight |
|-------------------|----------------|-------|-------|------|----------|--------|
|                   | M              | E     | R     | H    | (T)      | (KG)   |
| 6                 | 22.0           | 28.3  | 110.0 | 19.5 | 1.12     | 0.50   |
| 7/8               | 24.8           | 33.7  | 132.0 | 24.0 | 2.00     | 0.84   |
| 10                | 32.0           | 43.1  | 167.0 | 30.0 | 3.15     | 1.52   |
| 13                | 40.0           | 50.9  | 204.0 | 40.0 | 5.30     | 3.10   |
| 16                | 56.5           | 61.6  | 250.0 | 50.5 | 8.00     | 6.10   |
| 20                | 62.6           | 84.0  | 269.0 | 55.0 | 12.50    | 8.10   |
| 22                | 70.0           | 77.1  | 312.5 | 67.0 | 15.00    | 12.60  |
| 26                | 80.5           | 97.1  | 362.0 | 75.0 | 21.20    | 18.00  |
| 32                | 105.0          | 168.0 | 470.0 | 97.0 | 31.50    | 44.40  |

Minimum Breaking load=4×W.L.L.(Working load Limited)

## G80 SWIVEL SELF – LOCKING HOOK

### G80旋转自锁钩

### G80 スイベルフック

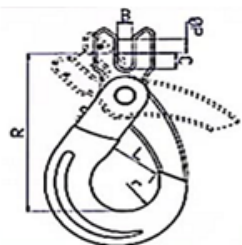


| Chain                                                | Dimensions(mm) |       |       |       | W. L. L. | Weight |
|------------------------------------------------------|----------------|-------|-------|-------|----------|--------|
| Size(mm)                                             | B              | C     | T     | L     | (T)      | (KG)   |
| 6                                                    | 32.5           | 24.5  | 28.3  | 184.0 | 1.12     | 0.70   |
| 7/8                                                  | 35.0           | 25.4  | 33.7  | 228.0 | 2.00     | 1.20   |
| 10                                                   | 42.0           | 32.2  | 43.1  | 270.0 | 3.15     | 2.00   |
| 13                                                   | 49.0           | 43.0  | 50.9  | 324.0 | 5.30     | 3.70   |
| 16                                                   | 61.0           | 55.0  | 61.6  | 406.0 | 8.00     | 7.80   |
| 20                                                   | 71.0           | 59.0  | 84.0  | 460.0 | 12.50    | 10.20  |
| 22                                                   | 96.0           | 89.5  | 77.1  | 564.0 | 15.00    | 16.60  |
| 26                                                   | 122.0          | 115.0 | 97.1  | 661.0 | 21.20    | 23.00  |
| 32                                                   | 140.0          | 146.0 | 168.0 | 829.0 | 31.50    | 81.00  |
| Minimum Breaking load=4×W.L.L.(Working load Limited) |                |       |       |       |          |        |

## G80 CLEVIS SELF – LOCKING HOOK

### G80羊角自锁钩

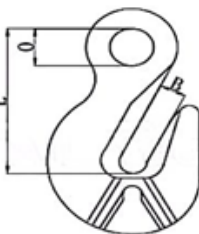
### G80 ロッキングフック



| Chain                                                | Dimensions(mm) |      |       |       | W. L. L. | Weight |
|------------------------------------------------------|----------------|------|-------|-------|----------|--------|
| Size(mm)                                             | B              | C    | L     | R     | (T)      | (KG)   |
| 6                                                    | 9.2            | 7.0  | 28.3  | 95.5  | 1.12     | 0.55   |
| 7/8                                                  | 9.5            | 9.0  | 33.7  | 114.0 | 2.00     | 0.95   |
| 10                                                   | 13.0           | 14.5 | 43.1  | 142.0 | 3.15     | 1.52   |
| 13                                                   | 14.5           | 18.0 | 50.9  | 181.0 | 5.30     | 3.10   |
| 16                                                   | 19.2           | 20.2 | 61.6  | 205.5 | 8.00     | 6.10   |
| 20                                                   | 25.4           | 25.4 | 84.0  | 228.5 | 12.50    | 8.10   |
| 22                                                   | 25.4           | 25.8 | 77.1  | 268.5 | 15.00    | 11.50  |
| 26                                                   | 30.0           | 31.6 | 97.1  | 317.5 | 21.20    | 18.00  |
| 32                                                   | 36.0           | 37.5 | 168.0 | 400.5 | 31.50    | 49.20  |
| Minimum Breaking load=4×W.L.L.(Working load Limited) |                |      |       |       |          |        |

## G80 CLEVIS SHORTENING GRAB HOOK

G80眼型带翅抓钩 グラブフック アイタイプ

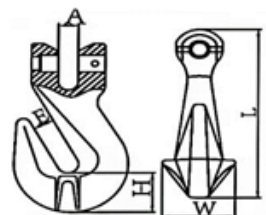


| Size (mm) | Chain     | Dimensions (mm) |      |    | W. L. L. | Weight |
|-----------|-----------|-----------------|------|----|----------|--------|
|           | Size (mm) | B               | L    | O  | (T)      | (KG)   |
| 5/6-8     | 5-6       | 9               | 48.5 | 12 | 1.1      | 0.33   |
| 7/8-8     | 7-8       | 10              | 60   | 16 | 2.0      | 0.68   |
| 10-8      | 10        | 13              | 80   | 21 | 3.2      | 1.58   |
| 13-8      | 13        | 17              | 104  | 26 | 5.3      | 3.05   |
| 16-8      | 16        | 20              | 114  | 30 | 8.0      | 5.27   |
| 20-8      | 18-20     | 23              | 132  | 36 | 12.5     | 9.40   |
| 22-8      | 22        | 27              | 157  | 38 | 15.0     | 13.01  |

Minimum Breaking load=4×W.L.L.(Working load Limited)

## G80 CLEVIS SHORTENING GRAB HOOK

G80羊角带翅抓钩 グラブフック クレビスタイプ



| Chain     | Dimensions (mm) |      |      |       | W. L. L. | Weight |
|-----------|-----------------|------|------|-------|----------|--------|
| Size (mm) | A               | E    | H    | L     | (T)      | (KG)   |
| 6         | 8               | 8    | 18.5 | 76.5  | 1.12     | 0.21   |
| 7/8       | 9.5             | 11   | 21   | 90.7  | 2.00     | 0.32   |
| 10        | 12.5            | 13.5 | 29.5 | 124.5 | 3.15     | 0.78   |
| 13        | 15.3            | 17   | 42   | 160.5 | 5.30     | 1.65   |
| 16        | 19.5            | 20   | 44   | 182   | 8.00     | 2.86   |
| 20        | 24              | 24   | 54.8 | 215.7 | 12.50    | 5.05   |
| 22        | 27              | 28   | 67.5 | 252   | 15.00    | 6.32   |

Minimum Breaking load=4×W.L.L.(Working load Limited)

# ALLOY CONNECTING LINK

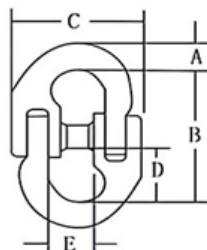
## A-336双环扣

カップリングA-336



Grade 60

MBS=4×WLL

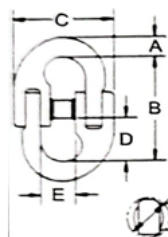


| Chain Size<br>(in) | Working Load Limit<br>(lbs) | Weight Each<br>(lbs) | Dimensions<br>(in) |      |      |      |      | Dia. Hole to Accept Link |
|--------------------|-----------------------------|----------------------|--------------------|------|------|------|------|--------------------------|
|                    |                             |                      | A                  | B    | C    | D    | E    |                          |
| 1/4                | 3250                        | 25                   | 2.06               | 2.06 | 0.78 | 0.78 | 0.78 | 0.50                     |
| 3/8                | 6600                        | 60                   | 2.72               | 2.72 | 1.06 | 1.06 | 1.09 | 0.66                     |
| 1/2                | 11250                       | 1.25                 | 3.34               | 3.34 | 1.26 | 1.26 | 1.41 | 0.88                     |
| 5/8                | 16500                       | 2.30                 | 3.91               | 3.91 | 1.56 | 1.56 | 1.69 | 1.06                     |
| 3/4                | 23000                       | 4.00                 | 4.84               | 4.84 | 1.97 | 1.97 | 2.00 | 1.19                     |
| 7/8                | 28750                       | 5.75                 | 5.81               | 5.81 | 2.38 | 2.38 | 2.12 | 1.38                     |
| 1                  | 38750                       | 8.00                 | 6.48               | 6.48 | 2.84 | 2.84 | 2.55 | 1.47                     |
| 1 1/4              | 57500                       | 15.00                | 8.48               | 8.48 | 3.77 | 3.77 | 3.77 | 1.73                     |

# ALLOY CONNECTING LINK

## A-337美式双环扣

カップリングA-337



F DIA. (MIN HOLE DIAMETER REQUIRED TO PASS EYE DURING ASSEMBLY)

Grade 80

MBS=4×WLL

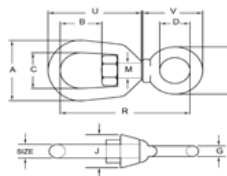


| Chain Size |      | Weight Each<br>(lbs) | Working Load Limit<br>(lbs) | Dimensions<br>(in) |      |      |      |      |      |
|------------|------|----------------------|-----------------------------|--------------------|------|------|------|------|------|
| (in)       | (mm) |                      |                             | A                  | B    | C    | D    | E    | F    |
| 9/32 (1/4) | 7    | 0.29                 | 3500                        | 0.36               | 1.88 | 0.75 | 0.81 | 0.64 | 0.63 |
| 5/16       | 8    | 0.67                 | 4500                        | 0.42               | 2.13 | 0.97 | 0.91 | 0.69 | 0.63 |
| 3/8        | 10   | 0.56                 | 7100                        | 0.48               | 2.5  | 0.5  | 1.06 | 0.88 | 0.84 |
| 1/2        | 13   | 1.06                 | 12000                       | 0.64               | 3.44 | 3.22 | 1.49 | 1.13 | 1.06 |
| 5/8        | 16   | 2.43                 | 18100                       | 0.75               | 4.13 | 3.78 | 1.79 | 1.41 | 1.25 |
| 3/4        | 20   | 4.20                 | 28300                       | 0.89               | 4.62 | 4.62 | 1.77 | 1.59 | 1.28 |
| 7/8        | 22   | 6.80                 | 34200                       | 1.05               | 5.92 | 5.59 | 2.45 | 1.86 | 1.44 |

# Chain Swivel G-401

旋转环(G401)

スイベル G401

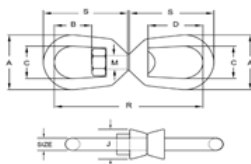


| Size<br>(in.) | W.L.L.<br>(lbs.) | Weight<br>(lbs.) | Dimensions (in.) |      |      |      |      |      |      |      |      |      |      |
|---------------|------------------|------------------|------------------|------|------|------|------|------|------|------|------|------|------|
|               |                  |                  | A                | B    | C    | D    | E    | G    | J    | M    | R    | U    | V    |
| 1/4           | 850              | 0.13             | 1.25             | 0.69 | 0.75 | 0.62 | 1.12 | 0.25 | 0.69 | 0.31 | 2.25 | 1.69 | 1.25 |
| 5/16          | 1250             | 0.25             | 1.63             | 0.81 | 1.00 | 0.75 | 1.38 | 0.31 | 0.81 | 0.38 | 2.72 | 2.06 | 1.47 |
| 3/8           | 2250             | 0.54             | 2.00             | 0.94 | 1.25 | 1.00 | 1.75 | 0.38 | 1.00 | 0.50 | 3.44 | 2.50 | 1.88 |
| 1/2           | 3600             | 1.12             | 2.50             | 1.31 | 1.50 | 1.25 | 2.25 | 0.50 | 1.31 | 0.63 | 4.25 | 3.19 | 2.44 |
| 5/8           | 5200             | 2.09             | 3.00             | 1.56 | 1.75 | 1.50 | 2.75 | 0.62 | 1.50 | 0.75 | 5.13 | 3.88 | 2.94 |
| 3/4           | 7200             | 3.09             | 3.50             | 1.75 | 2.00 | 1.75 | 3.25 | 0.75 | 1.88 | 0.88 | 5.78 | 4.94 | 3.46 |

# Regular Swivels G-402

旋转环(G402)

スイベル G402

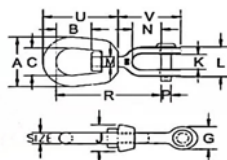


| Size<br>(in.) | Dimensions(in) |      |      |      |      |      |       |      | W.L.L.<br>(lbs.) | Weighteach<br>(lbs.) |
|---------------|----------------|------|------|------|------|------|-------|------|------------------|----------------------|
|               | A              | B    | C    | D    | J    | M    | R     | S    |                  |                      |
| 1/4           | 1.25           | 0.69 | 0.75 | 1.06 | 0.69 | 0.31 | 2.94  | 1.69 | 850              | 0.21                 |
| 5/16          | 1.63           | 0.81 | 1.00 | 1.25 | 0.81 | 0.38 | 3.56  | 2.06 | 1250             | 0.39                 |
| 3/8           | 2.00           | 0.94 | 1.25 | 1.50 | 1.00 | 0.50 | 4.31  | 2.50 | 2250             | 0.71                 |
| 1/2           | 2.50           | 1.31 | 1.50 | 2.00 | 1.31 | 0.63 | 5.44  | 3.19 | 3600             | 1.32                 |
| 5/8           | 3.00           | 1.56 | 1.75 | 2.38 | 1.50 | 0.75 | 6.56  | 3.88 | 5200             | 2.49                 |
| 3/4           | 3.50           | 1.75 | 2.00 | 2.63 | 1.88 | 0.88 | 7.19  | 4.31 | 7200             | 4.10                 |
| 7/8           | 4.00           | 2.06 | 2.25 | 3.06 | 2.13 | 1.00 | 8.38  | 5.00 | 10000            | 6.25                 |
| 1             | 4.50           | 2.31 | 2.50 | 3.50 | 2.38 | 1.13 | 9.63  | 5.75 | 12500            | 8.95                 |
| 1 1/4         | 5.63           | 2.69 | 3.13 | 3.69 | 3.00 | 1.50 | 11.44 | 6.75 | 18000            | 16.37                |
| 1 1/2         | 7.09           | 3.88 | 4.09 | 3.88 | 3.75 | 2.25 | 16.69 | 9.91 | 45200            | 45.79                |

# JAW END SWIVELS G-403

旋转叉(G403)

スイベル G403

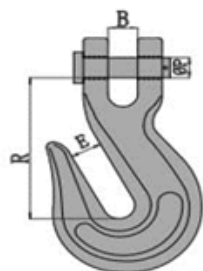


| Size<br>(in) | WLL<br>(Ibs) | WLL<br>(T) | W. t<br>(kg) | Dimensions (mm) |      |      |      |      |      |      |      |      |      |      |
|--------------|--------------|------------|--------------|-----------------|------|------|------|------|------|------|------|------|------|------|
|              |              |            |              | A               | B    | C    | G    | J    | K    | L    | M    | N    | P    | R    |
| 1/4          | 850          | 0.39       | 0.1          | 31.8            | 17.5 | 19   | 17.5 | 17.5 | 12   | 26   | 7.9  | 22.4 | 6.35 | 66.8 |
| 5/16         | 1250         | 0.57       | 0.15         | 41.4            | 20.6 | 25.4 | 20.6 | 20.6 | 12.7 | 28.7 | 9.65 | 22.4 | 7.9  | 74.7 |
| 3/8          | 2250         | 1.02       | 0.3          | 50.8            | 23.9 | 31.8 | 25.4 | 25.4 | 16   | 35.8 | 12.7 | 27   | 9.7  | 92.2 |
| 1/2          | 3600         | 1.63       | 0.6          | 63.5            | 33.3 | 38   | 33.3 | 33.3 | 19   | 44.4 | 16   | 33.3 | 12.7 | 114  |
| 5/8          | 5200         | 2.36       | 1.12         | 76.2            | 39.6 | 44.5 | 41.4 | 38   | 24   | 52.3 | 19   | 38   | 16   | 135  |
| 3/4          | 7200         | 3.27       | 1.76         | 88.9            | 44.5 | 50.8 | 47.8 | 47.8 | 28.7 | 64.3 | 22.4 | 44.4 | 19   | 154  |
| 7/8          | 10000        | 4.54       | 2.66         | 102             | 52.3 | 57   | 54   | 54   | 30   | 71   | 25.4 | 52.3 | 22.4 | 178  |
| 1            | 12500        | 5.68       | 4.46         | 114             | 58.7 | 63.5 | 66.8 | 60.4 | 44.4 | 94.5 | 28.7 | 71.4 | 28.7 | 217  |
| 1 1/4        | 18000        | 8.17       | 7.15         | 143             | 68.3 | 79.5 | 79.5 | 76   | 52.3 | 109  | 38   | 71.4 | 35   | 240  |
| 1 1/2        | 45200        | 20.5       | 24.9         | 178             | 106  | 102  | 143  | 102  | 73   | 152  | 57   | 113  | 57   | 374  |

# CLEVIS GRAB HOOK

## H-330 / A-330 羊角抓钩

クレビスタイプ フック (H-330 / A-330)



碳钢或合金钢

Forged Carbon or Alloy Steel

最小破断负荷是工作负荷的4倍

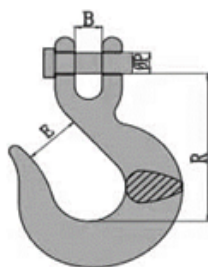
Ultimate Load is 4 times Working Load Limit

| Size (in) | WLL(Ibs) |       | Dimensions(in) |      |      |      | Weight (lbs) |
|-----------|----------|-------|----------------|------|------|------|--------------|
|           | H-330    | A-330 | B              | E    | P    | R    |              |
| 1/4       | 2600     | 3600  | 0.36           | 0.40 | 0.38 | 1.97 | 0.40         |
| 5/16      | 3900     | 5400  | 0.40           | 0.44 | 0.44 | 2.26 | 0.79         |
| 3/8       | 5400     | 7500  | 0.48           | 0.50 | 0.47 | 2.63 | 1.00         |
| 7/16      | 7200     | 10000 | 0.66           | 0.56 | 0.56 | 2.75 | 1.50         |
| 1/2       | 9200     | 12750 | 0.75           | 0.66 | 0.63 | 3.19 | 2.10         |
| 5/8       | 12750    | 19000 | 0.91           | 0.78 | 0.75 | 4.09 | 4.20         |
| 3/4       | 18500    | 27000 | 0.94           | 0.94 | 0.88 | 4.63 | 6.50         |

# CLEVIS SLIP HOOK

## H-331 / A-331 羊角滑钩

クレビスタイプ フック (H-331 / A-331)



碳钢或合金钢

Forged Carbon or Alloy Steel

最小破断负荷是工作负荷的4倍

Ultimate Load is 4 times Working Load Limit

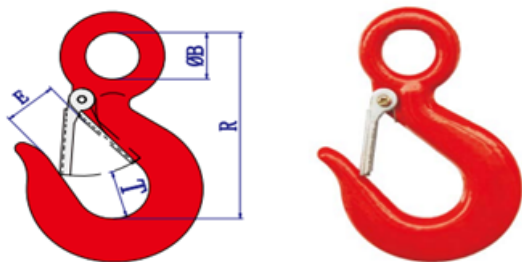
| Size (in) | WLL(Ibs) |       | Dimensions(in) |      |      |      | Weight (lbs) |
|-----------|----------|-------|----------------|------|------|------|--------------|
|           | H-331    | A-331 | B              | E    | P    | R    |              |
| 1/4       | 1950     | 2750  | 0.44           | 0.94 | 0.38 | 2.56 | 0.50         |
| 5/16      | 2875     | 4300  | 0.50           | 1.66 | 0.44 | 2.87 | 0.75         |
| 3/8       | 4000     | 5250  | 0.59           | 1.31 | 0.47 | 3.25 | 1.20         |
| 7/16      | 5000     | 7000  | 0.66           | 1.56 | 0.56 | 3.70 | 2.06         |
| 1/2       | 6500     | 9000  | 0.75           | 1.69 | 0.63 | 4.00 | 2.80         |
| 5/8       | 9250     | 13500 | 0.91           | 2.00 | 0.75 | 4.94 | 4.75         |
| 3/4       | 12500    | 19250 | 1.31           | 2.50 | 1.00 | 6.09 | 10.30        |



# EYE HOIST HOOKS 320C/320A

320C/320A 眼型吊钩

アイフック 320C/320A



320C / 320A 美式货钩 (带舌片)  
碳钢或合金钢

Forged Carbon or Alloy Steel

实验载荷是工作负荷的2倍

Proof load is 2 times working load limit

最小破断负荷是工作负荷的5倍

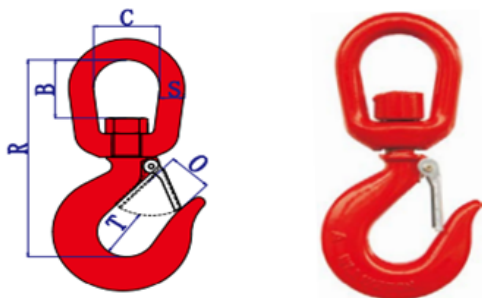
Ultimate Load is 5 times Working Load Limit

| WLL(t) |       | Dimensions(in) |       |      |      | Weight (lbs) |
|--------|-------|----------------|-------|------|------|--------------|
| 320C   | 320A  | B              | R     | E    | T    |              |
| 1/2    | 3/4   | 0.63           | 2.80  | 0.81 | 0.65 | 0.37         |
| 3/4    | 1     | 0.75           | 3.22  | 0.88 | 0.81 | 0.57         |
| 1      | 1 1/2 | 0.91           | 3.66  | 0.97 | 0.81 | 0.77         |
| 1 1/2  | 2     | 1.12           | 4.09  | 1.00 | 0.84 | 1.28         |
| 2      | 3     | 1.25           | 4.69  | 1.12 | 1.19 | 1.73         |
| 3      | 4 1/2 | 1.56           | 5.78  | 1.34 | 1.38 | 3.66         |
| 5      | 7     | 2.00           | 7.38  | 1.69 | 1.78 | 7.19         |
| 7 1/2  | 11    | 2.44           | 9.06  | 2.06 | 2.12 | 13.17        |
| 10     | 15    | 2.83           | 10.09 | 2.22 | 2.72 | 22.15        |

# SWIVEL EYE HOIST HOOKS

322C/322A 旋转眼型吊钩

スイベルフック 322C/322A



322C / 322A 旋转钩 (带舌片)

碳钢或合金钢

Forged Carbon or Alloy Steel

实验载荷是工作负荷的2倍

Proof load is 2 times working load limit

最小破断负荷是工作负荷的5倍

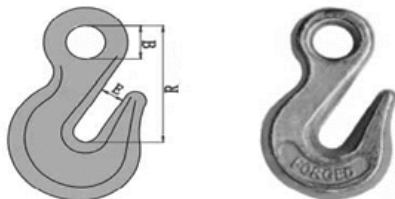
Ultimate Load is 5 times Working Load Limit

| WLL(t) |       | Dimensions(in) |      |      |       |      |      | Weight (lbs) |
|--------|-------|----------------|------|------|-------|------|------|--------------|
| 322C   | 322A  | B              | C    | O    | R     | S    | T    |              |
| 3/4    | 1     | 0.93           | 1.25 | 0.88 | 4.47  | 0.37 | 0.80 | 0.77         |
| 1      | 1 1/2 | 1.31           | 1.50 | 0.97 | 5.28  | 0.50 | 0.80 | 1.27         |
| 1 1/2  | 2     | 1.62           | 1.75 | 1.00 | 6.00  | 0.62 | 0.84 | 2.28         |
| 2      | 3     | 1.56           | 1.75 | 1.13 | 6.37  | 0.62 | 1.19 | 2.60         |
| 3      | 4 1/2 | 1.75           | 2.00 | 1.34 | 7.40  | 0.75 | 1.37 | 4.81         |
| 5      | 7     | 2.31           | 2.50 | 1.69 | 9.59  | 1.00 | 1.78 | 10.40        |
| 7 1/2  | 11    | 2.38           | 2.75 | 2.06 | 11.12 | 1.13 | 2.13 | 16.42        |
| 10     | 15    | 2.80           | 3.12 | 2.25 | 11.93 | 1.25 | 2.50 | 23.40        |

# EYE GRAB HOOK

## H-323 / A-323眼形抓钩

Grab Hook (H-323/A-323)



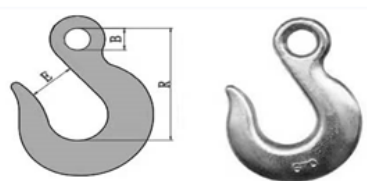
碳钢或合金钢  
Forged Carbon or Alloy Steel  
最小破断负荷是工作负荷的4倍  
Ultimate Load is 4 times Working Load Limit

| Size (in) | WLL(Ibs) |       | Dimensions(in) |      |      | Weight (lbs) |
|-----------|----------|-------|----------------|------|------|--------------|
|           | H-323    | A-323 | B              | E    | R    |              |
| 1/4"      | 2600     | 3600  | 0.50           | 0.34 | 1.97 | 0.28         |
| 5/16"     | 3900     | 5400  | 0.56           | 0.44 | 2.25 | 0.45         |
| 3/8"      | 5400     | 7500  | 0.66           | 0.50 | 2.56 | 0.79         |
| 7/16"     | 7200     | 10000 | 0.75           | 0.56 | 2.94 | 1.19         |
| 1/2"      | 9200     | 12750 | 0.88           | 0.66 | 3.38 | 1.80         |
| 5/8"      | 12750    | 19000 | 1.06           | 0.78 | 4.11 | 3.30         |
| 3/4"      | 18500    | 27000 | 1.38           | 0.94 | 5.16 | 6.00         |

# EYE SLIP HOOK

## H-324 / A-324眼形滑钩

Eye Hook (H-324/A-324)

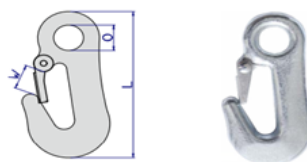


碳钢或合金钢  
Forged Carbon or Alloy Steel  
最小破断负荷是工作负荷的4倍  
Ultimate Load is 4 times Working Load Limit

| Size (in) | WLL(Ibs) |       | Dimensions(in) |      |      | Weight (lbs) |
|-----------|----------|-------|----------------|------|------|--------------|
|           | H-324    | A-324 | B              | E    | R    |              |
| 1/4       | 1950     | 2750  | 0.5            | 0.94 | 2.56 | 0.40         |
| 5/16      | 2875     | 4300  | 0.63           | 1.06 | 2.95 | 0.70         |
| 3/8       | 4000     | 5250  | 0.72           | 1.31 | 3.36 | 1.00         |
| 7/16      | 5000     | 7000  | 0.81           | 1.56 | 3.88 | 1.60         |
| 1/2       | 6500     | 9000  | 0.94           | 1.69 | 4.28 | 2.40         |
| 5/8       | 9250     | 13500 | 1.13           | 2    | 5.22 | 4.00         |
| 3/4       | 12500    | 19250 | 1.38           | 2.13 | 5.8  | 6.50         |

# WINCH HOOK

## 绞车钩



碳钢  
Forged Carbon Steel

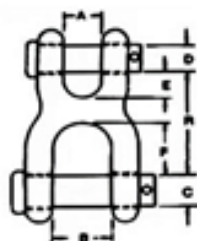
| SIZE(in.) | mm | Dimensions (mm) | M. B. S. (T) | Weight (kg) |
|-----------|----|-----------------|--------------|-------------|
|           |    |                 |              |             |

## DOUBLE CLEVIS LINK S-247

X型羊角双环      ダブルリンク x型

| Size<br>(in) | W. L. L.<br>(lbs) | Dimensions (in) |      |      |      |      |      | Weight<br>(lbs) |
|--------------|-------------------|-----------------|------|------|------|------|------|-----------------|
|              |                   | A               | B    | C    | D    | E    | F    |                 |
| 1/4          | 2600              | 0.50            | 0.75 | 0.50 | 0.31 | 0.38 | 0.75 | 0.38            |
| 5/16-3/8     | 5400              | 0.56            | 1.00 | 0.63 | 0.44 | 0.47 | 1.00 | 0.81            |
| 7/16         | 7000              | 0.69            | 1.13 | 0.69 | 0.56 | 0.59 | 1.09 | 1.28            |
| 1/2          | 9200              | 0.81            | 1.25 | 0.75 | 0.63 | 0.66 | 1.25 | 1.60            |
| 5/8          | 17500             | 0.78            | 1.63 | 1.00 | 0.75 | 0.83 | 1.51 | 2.91            |

\*Ultimate load is 4 times working load limit

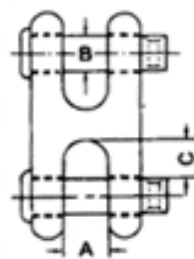


## TWIN CLEVIS LINK S-249

H型羊角双环      H型 ツインクリビスリンク

| Size<br>(in) | W. L. L.<br>(lbs) | Dimensions (mm) |      |      | Weight<br>(lbs) |
|--------------|-------------------|-----------------|------|------|-----------------|
|              |                   | A               | B    | C    |                 |
| 1/4-5/16     | 4700              | 0.47            | 0.38 | 0.43 | 0.32            |
| 3/8          | 6600              | 0.53            | 0.47 | 0.48 | 0.44            |
| 7/16-1/2     | 11250             | 0.65            | 0.56 | 0.63 | 1.00            |
| 5/8          | 16500             | 0.78            | 0.69 | 0.75 | 1.32            |

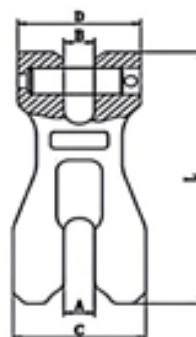
\*Ultimate load is 4 times working load limit



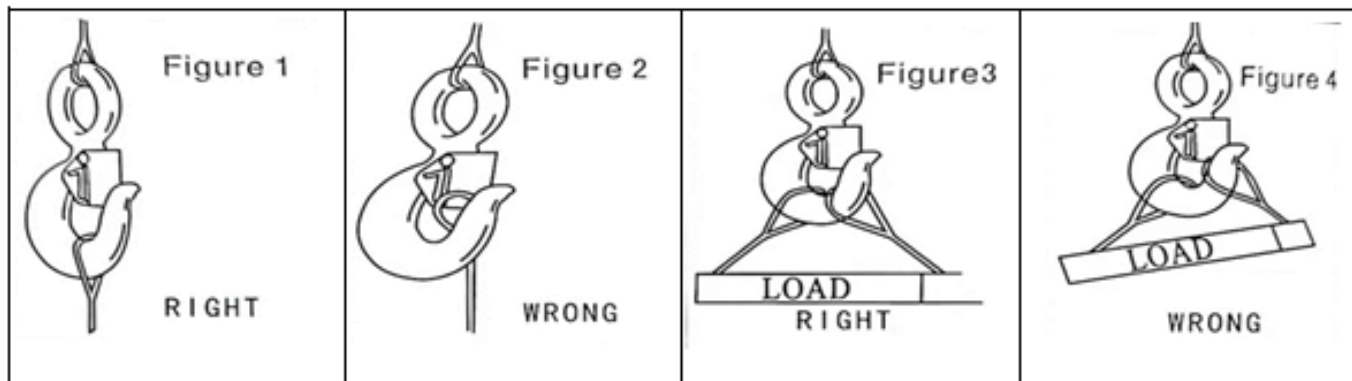
## CHAIN ADJUSTER

链条调节器      ショートリングクラッチ クレビスタイプ ピン付き

| WLL(T) | B.L(T) | Dimensions (mm) |      |     |    |      | Weight<br>(kg) |
|--------|--------|-----------------|------|-----|----|------|----------------|
|        |        | A               | B    | C   | D  | L    |                |
| 1.12   | 4.48   | 7.5             | 7.5  | 33  | 26 | 73.5 | 0.17           |
| 2      | 8      | 9.5             | 9.5  | 45  | 36 | 101  | 0.42           |
| 3.15   | 12.6   | 13              | 13   | 55  | 48 | 138  | 1              |
| 5.3    | 21.2   | 18              | 18   | 75  | 59 | 177  | 2              |
| 8      | 32     | 21              | 21   | 93  | 73 | 220  | 3.8            |
| 12.5   | 50     | 22              | 22   | 99  | 78 | 238  | 4.9            |
| 15     | 60     | 25.5            | 25.5 | 118 | 98 | 295  | 8.5            |



# Use Method 使用方法

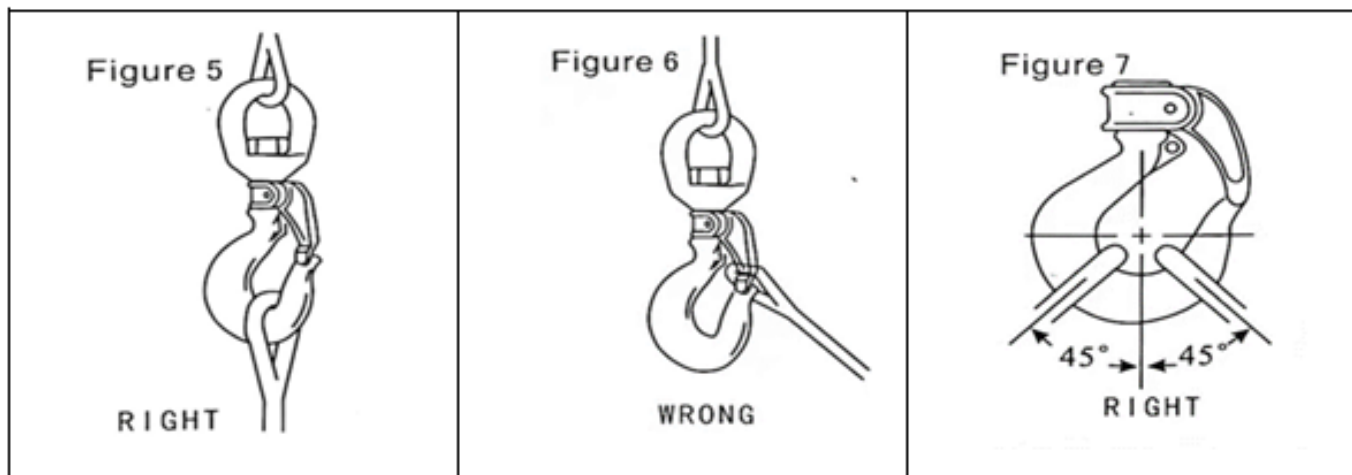


√ 正确

× 错误

√ 正确

× 错误



√ 正确

× 错误

√ 正确

# Ratchet Type Load Binder

## 棘轮式拉紧器

ラチェット式荷重バインダー

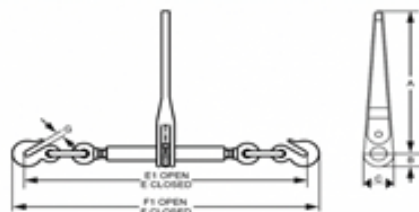
Continuous take-up feature, infinite adjustment, gets the last half link of chain.

\*One piece assembly, no bolts and nuts to loosen.

\*Ratchet spring rust proofed.

\*All load bearing or holding parts forged.

Easy operating positive ratchet.

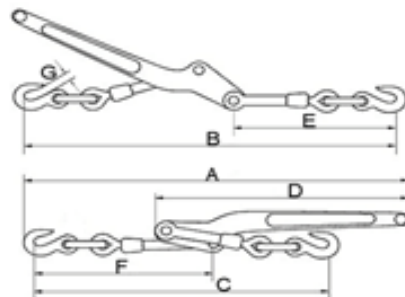


| Size<br>(in) | Min-Max<br>Chain<br>Size<br>(in) | W.LL.<br>(lbs) | Proof<br>Load<br>(lbs) | Breakin<br>g Load<br>(lbs) | Weight<br>(lbs) | Handle<br>Length<br>(in) | Dimensions(in) |      |      |       |       |       |
|--------------|----------------------------------|----------------|------------------------|----------------------------|-----------------|--------------------------|----------------|------|------|-------|-------|-------|
|              |                                  |                |                        |                            |                 |                          | A              | B    | C    | E     | E1    | F     |
| 1/4"-5/16"   | 1/4-5/16                         | 2200           | 4400                   | 7800                       | 3.52            | 7.16                     | 7.16           | 0.89 | 1.77 | 16.22 | 21.26 | 17.79 |
| 5/16-3/8     | 5/16-3/8                         | 5400           | 10800                  | 19000                      | 8.20            | 13.42                    | 13.92          | 1.30 | 2.60 | 22.46 | 30.64 | 25.24 |
| 3/8-1/2      | 3/8-1/2                          | 9200           | 18400                  | 33000                      | 11.50           | 13.92                    | 13.92          | 1.30 | 2.60 | 24.13 | 32.13 | 27.04 |
| 1/2-5/8      | 1/2-5/8                          | 13000          | 26000                  | 46000                      | 18.70           | 13.92                    | 13.92          | 1.30 | 2.60 | 26.45 | 34.45 | 30.07 |

# Lever Type Load Binder

## 杠杆式拉紧器

レバー式ロードバインダー



| Size<br>(in) | Min-Max<br>Chain<br>Size<br>(in) | W.LL.<br>(lbs) | Proof<br>Load<br>(lbs) | Breakin<br>g Load<br>(lbs) | Weight<br>(lbs) | Handle<br>Length<br>(in) | Dimensions(in) |       |       |       |       |      |
|--------------|----------------------------------|----------------|------------------------|----------------------------|-----------------|--------------------------|----------------|-------|-------|-------|-------|------|
|              |                                  |                |                        |                            |                 |                          | A              | B     | C     | D     | E/F   | G    |
| 1/4"-5/16"   | 1/4-5/16                         | 2600           | 5200                   | 9200                       | 3.60            | 11.42                    | 20.66          | 18.70 | 15.35 | 11.42 | 8.85  | 0.35 |
| 5/16-3/8     | 5/16-3/8                         | 5400           | 10800                  | 19000                      | 8.56            | 15.43                    | 25.20          | 25.20 | 21.46 | 15.55 | 12.20 | 0.47 |
| 3/8-1/2      | 3/8-1/2                          | 9200           | 18400                  | 33000                      | 12.90           | 17.24                    | 28.15          | 28.70 | 24.61 | 17.52 | 13.58 | 0.59 |
| 1/2-5/8      | 1/2-5/8                          | 11000          | 22000                  | 44000                      | 14.38           | 21.00                    | 33.86          | 30.12 | 25.78 | 20.87 | 14.37 | 0.74 |

Material: Carbon steel/Alloy steel

Finish: Red painted, H. D. G., Electro galvanized, self-colored

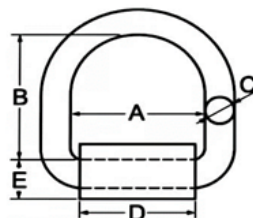
Process: Forging

Treatment: Quenched and Tempered

Packing: Carton and Iron Pallet, Iron Pallet

# D RING WITH STRAP

D型环带底座  
鍛造D型リング

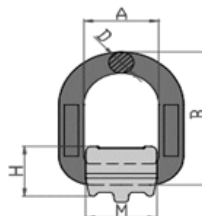


| Size<br>(in.) | W. L. L.<br>(Ibs) | Dimensions (in) |      |      |      |      | Weight<br>(Ibs) |
|---------------|-------------------|-----------------|------|------|------|------|-----------------|
|               |                   | A               | B    | C    | D    | E    |                 |
| 1/2           | 12000             | 2.25            | 2.50 | 0.50 | 1.76 | 0.61 | 0.94            |
| 5/8           | 18000             | 3.00            | 3.00 | 0.63 | 2.48 | 0.92 | 1.87            |
| 3/4           | 26500             | 3.00            | 3.00 | 0.75 | 2.48 | 1.00 | 2.70            |
| 1             | 47000             | 3.00            | 3.00 | 1.00 | 2.52 | 1.21 | 4.21            |
| 1             | 47000             | 3.00            | 4.00 | 1.00 | 2.52 | 1.21 | 4.74            |

Please use this D ring as a tie-down anchor only, not for overhead lifting.

# G80 FORGED D-RINGS WITH WRAPS

G80鍛造 D型环  
G80鍛造Dリング



| Dimensions (in) |       |      |      |       | W.L.L. | Weight |
|-----------------|-------|------|------|-------|--------|--------|
| A               | B     | D    | H    | M     | (T)    | (KG)   |
| 41.0            | 78.0  | 13.0 | 30.0 | 37.0  | 1.12   | 0.4    |
| 42.0            | 88.0  | 14.0 | 33.0 | 40.0  | 2      | 0.48   |
| 45.0            | 94.0  | 17.0 | 35.0 | 42.5  | 3.15   | 0.69   |
| 55.0            | 118.0 | 22.0 | 47.5 | 51.0  | 5.3    | 1.5    |
| 70.5            | 140.0 | 26.0 | 56.5 | 65.0  | 8      | 2.5    |
| 85.0            | 165.0 | 30.0 | 70.0 | 90.0  | 10     | 4.25   |
| 98.0            | 189.0 | 34.0 | 77.0 | 90.0  | 15     | 5.79   |
| 147.0           | 278.0 | 46.0 | 85.0 | 121.0 | 20     | 15.1   |

★ 极限负荷是工作负荷的4倍 ★ Ultimate load is 4 times working load limit

# FORGED DELTA RINGS

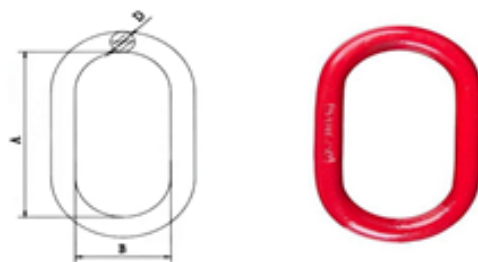
模鍛三角环  
鍛造リング 三角型



| Size<br>(in.) | Dimensions (mm) |       |      |      |      | M.B.S.<br>(T) | Weight<br>(kg) |
|---------------|-----------------|-------|------|------|------|---------------|----------------|
|               | (mm)            | A     | B    | D    | E    |               |                |
| 2             | 51              | 80.0  | 44.5 | 12.0 | 15.0 | 5             | 0.2            |
| 3             | 76              | 109.4 | 60.0 | 14.0 | 20.0 | 8.2           | 0.36           |
| 4             | 102             | 142.0 | 74.0 | 16.0 | 25.0 | 9.1           | 0.62           |

# A-342 FORGED MASTER LINK

A-342模鍛強力环  
マスターリンク

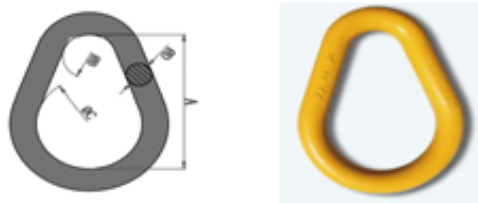


| Size  | WEIGHT/KG | WLL/T | B. L/T | A   | B    | D     |
|-------|-----------|-------|--------|-----|------|-------|
| 1/2   | 0.36      | 2.2   | 11     | 127 | 63.5 | 13    |
| 5/8   | 0.7       | 3     | 15     | 152 | 76   | 16    |
| 3/4   | 0.93      | 4.7   | 23.5   | 140 | 70   | 19    |
| 7/8   | 1.5       | 6.4   | 32     | 160 | 89   | 22    |
| 1     | 2.1       | 11    | 55     | 178 | 90   | 25    |
| 1-1/4 | 4.24      | 16    | 80     | 222 | 111  | 32    |
| 1-1/2 | 7.17      | 21.7  | 108.5  | 267 | 135  | 38    |
| 1-3/4 | 11.55     | 28.4  | 142    | 305 | 152  | 45    |
| 2     | 17.2      | 44.3  | 221.5  | 355 | 178  | 51    |
| 2-1/4 | 24.5      | 65    | 325    | 406 | 203  | 57    |
| 2-1/2 | 30.9      | 66.8  | 334    | 406 | 203  | 63.5  |
| 2-3/4 | 39.5      | 98    | 490    | 406 | 241  | 70    |
| 3     | 50.34     | 103   | 515    | 457 | 228  | 76    |
| 3-1/4 | 65.68     | 119   | 595    | 508 | 254  | 82.5  |
| 3-1/2 | 89.27     | 126   | 630    | 508 | 254  | 89    |
| 3-3/4 | 90.24     | 152   | 760    | 508 | 254  | 95    |
| 4     | 103.43    | 169   | 845    | 508 | 305  | 101.6 |

# G80 FORGED PEAR SHAPE LINK

G80梨形环

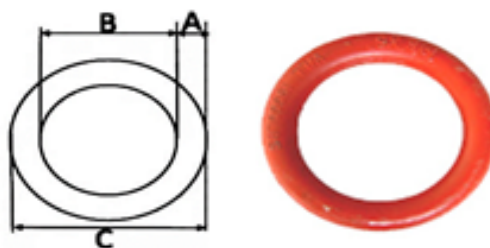
鍛造リンク 梨型



| Size  |    | Dimensions(in) |       |       | WLL (T) |       | Weight (kg) |
|-------|----|----------------|-------|-------|---------|-------|-------------|
| in    | mm | A              | B     | C     | Carbon  | Alloy |             |
| 3/8   | 10 | 57.2           | 19.0  | 38.2  | 0.8     | 1.6   | 0.10        |
| 1/2   | 13 | 76.2           | 25.4  | 50.8  | 1.3     | 3.2   | 0.25        |
| 5/8   | 16 | 95.3           | 31.8  | 63.5  | 1.9     | 4.0   | 0.50        |
| 3/4   | 19 | 114.0          | 38.1  | 76.2  | 2.7     | 5.6   | 0.80        |
| 7/8   | 22 | 133.4          | 44.0  | 89.0  | 3.8     | 6.4   | 1.26        |
| 1     | 25 | 152.0          | 50.0  | 102.0 | 4.9     | 11.0  | 1.95        |
| 1-1/8 | 28 | 171.5          | 57.2  | 114.3 | 5.4     | 13.9  | 2.92        |
| 1-1/4 | 32 | 190.5          | 64.0  | 127.0 | 7.6     | 16.3  | 3.75        |
| 1-3/8 | 35 | 209.6          | 69.8  | 139.7 | 9.3     | 19.5  | 5.12        |
| 1-1/2 | 38 | 228.6          | 76.2  | 152.4 | 11.4    | 24.7  | 6.50        |
| 1-3/4 | 45 | 266.7          | 88.9  | 177.8 | -       | 38.5  | 10.20       |
| 2     | 51 | 304.8          | 101.6 | 203.2 | -       | 46.5  | 15.30       |

# Forged Weldless Round Ring

模鍛圓環  
オーリング



| Size        | W.LL.<br>(lbs.) | Weight Each<br>(lbs) | Dimensions(in.) |        |        |
|-------------|-----------------|----------------------|-----------------|--------|--------|
|             |                 |                      | A               | B      | C      |
| 3/8*2       | 2200            | 0.23                 | 3/8             | 2      | 2 3/4  |
| 3/8*2 1/4   | 2200            | 0.26                 | 3/8             | 2 1/4  | 3      |
| 3/8*3 1/2   | 2200            | 0.37                 | 3/8             | 3 1/4  | 4 1/4  |
| 1/2*2       | 2200            | 0.44                 | 1/2             | 2      | 3      |
| 1/2*3       | 2200            | 0.62                 | 1/2             | 3      | 4      |
| 1/2*3 1/2   | 2200            | 0.71                 | 1/2             | 3 1/2  | 4 1/2  |
| 5/8*2 1/2   | 3300            | 0.86                 | 5/8             | 2 1/2  | 3 3/4  |
| 5/8*3       | 3300            | 1                    | 5/8             | 3      | 4 1/4  |
| 5/8*3 5/16  | 3300            | 1.08                 | 5/8             | 3 5/16 | 4 9/16 |
| 5/8*4       | 3300            | 1.28                 | 5/8             | 4      | 5 1/4  |
| 3/4*3       | 3700            | 1.63                 | 3/4             | 3      | 4 1/2  |
| 3/4*3 1/2   | 3700            | 1.68                 | 3/4             | 3 1/2  | 5      |
| 3/4*4       | 3700            | 1.89                 | 3/4             | 4      | 5 1/2  |
| 7/8*3 1/2   | 7200            | 2.34                 | 7/8             | 5 1/2  | 5 1/4  |
| 7/8*4       | 7200            | 2.7                  | 7/8             | 4      | 5 3/4  |
| 7/8*5 1/2   | 7200            | 3.47                 | 7/8             | 5 1/2  | 7 1/4  |
| 1*4         | 10400           | 3.69                 | 1               | 4      | 6      |
| 1*5 1/2     | 10400           | 4.54                 | 1               | 5 1/2  | 7 1/2  |
| 1*6         | 10400           | 4.85                 | 1               | 6      | 8      |
| 1 1/8*6     | 10400           | 6.6                  | 1 1/8           | 6      | 8 1/4  |
| 1 1/4*5     | 17000           | 7                    | 1 1/4           | 5      | 7 1/2  |
| 1 1/4*5 1/2 | 17000           | 7.41                 | 1 1/4           | 5 1/2  | 8      |
| 1 1/4*6     | 17000           | 7.94                 | 1 1/4           | 6      | 8 1/2  |
| 1 3/8*6     | 19000           | 10.63                | 1 3/8           | 6      | 8 3/4  |
| 1 1/2*8     | 22000           | 14.95                | 1 1/2           | 8      | 11     |
| 1 1/2*10    | 22000           | 18.08                | 1 1/2           | 10     | 13     |
| 2*12        | 25000           | 39.16                | 2               | 12     | 16     |

# One Way Lashing Buckle

鍛造目字扣  
止金具 (トメロン)



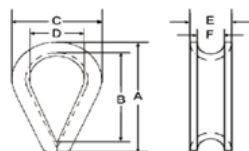
| Size | Working Load Limit | Breaking Load (kg) | Weight Each (kg) | Dimensions (mm) |    |     |
|------|--------------------|--------------------|------------------|-----------------|----|-----|
|      |                    |                    |                  | A               | B  | C   |
| 30#  | 3000               | 6000               | 0.2              | 54              | 33 | 102 |
| 40#  | 4000               | 8000               | 0.27             | 64              | 42 | 107 |
| 50#  | 5000               | 10000              | 0.41             | 72              | 52 | 110 |



# Wire Rope Thimbles, "A", DIN6899

德式DIN6899 A型套环

シンプル DIN6899 A型

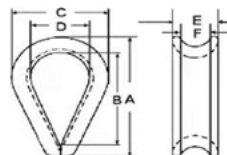


| Size<br>(mm) | Dimensions(mm) |       |     |    |     |      | Weight<br>100pcs<br>(kg) |
|--------------|----------------|-------|-----|----|-----|------|--------------------------|
|              | A              | B     | C   | D  | E   | F    |                          |
| 2.5          | 28             | 21.5  | 16  | 10 | 5   | 3    | 0.14                     |
| 3            | 30             | 23.5  | 17  | 11 | 5.5 | 3.5  | 0.35                     |
| 4            | 34             | 26.5  | 19  | 12 | 6   | 4    | 0.42                     |
| 5            | 36             | 28    | 20  | 13 | 7   | 5    | 0.8                      |
| 6            | 38             | 30    | 22  | 14 | 8   | 6    | 0.85                     |
| 7            | 43             | 33    | 24  | 15 | 9   | 7    | 1.1                      |
| 8            | 46             | 35    | 26  | 16 | 10  | 8    | 1.7                      |
| 9            | 50             | 39    | 29  | 18 | 11  | 9    | 2.1                      |
| 10           | 56             | 43    | 32  | 20 | 13  | 10   | 3.5                      |
| 11           | 63             | 47.5  | 36  | 22 | 14  | 11   | 3.7                      |
| 12           | 68             | 51.5  | 40  | 24 | 15  | 12   | 5.25                     |
| 13           | 75             | 56.5  | 44  | 26 | 17  | 13   | 7.25                     |
| 14           | 82             | 61    | 48  | 28 | 18  | 14   | 8.33                     |
| 16           | 91             | 69.5  | 54  | 32 | 21  | 16.5 | 12.3                     |
| 18           | 102            | 78    | 59  | 35 | 24  | 18   | 18.5                     |
| 20           | 114            | 86.5  | 68  | 40 | 28  | 20   | 31.5                     |
| 22           | 126            | 95    | 76  | 44 | 30  | 22   | 36.5                     |
| 24           | 135            | 103.5 | 84  | 48 | 32  | 24   | 41.7                     |
| 28           | 162            | 120.5 | 100 | 56 | 38  | 28   | 72.1                     |

# Wire Rope Thimbles, "B", DIN6899

德式DIN6899 B型套环

シンプル DIN6899 B型

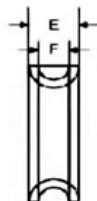
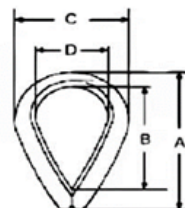


| Size<br>(mm) | Dimensions(mm) |     |      |    |    |    | Weight<br>100pcs<br>(kg) |
|--------------|----------------|-----|------|----|----|----|--------------------------|
|              | A              | B   | C    | D  | E  | F  |                          |
| 3            | 28             | 19  | 18.5 | 12 | 6  | 3  | 0.5                      |
| 4            | 30             | 21  | 20.5 | 13 | 7  | 4  | 0.8                      |
| 5            | 33             | 23  | 22.5 | 14 | 8  | 5  | 1                        |
| 6            | 39             | 26  | 27   | 16 | 10 | 6  | 1.6                      |
| 7            | 43             | 30  | 30   | 18 | 11 | 7  | 1.9                      |
| 8            | 48             | 32  | 33   | 20 | 12 | 8  | 3                        |
| 10           | 58             | 38  | 39   | 24 | 14 | 10 | 4.7                      |
| 12           | 69             | 45  | 47   | 28 | 17 | 12 | 6.8                      |
| 13           | 73             | 48  | 50   | 30 | 18 | 13 | 8                        |
| 14           | 77             | 51  | 53   | 32 | 19 | 14 | 10                       |
| 16           | 88             | 58  | 60   | 36 | 22 | 16 | 14.5                     |
| 17           | 95             | 61  | 65   | 38 | 25 | 17 | 18                       |
| 18           | 100            | 64  | 68   | 40 | 26 | 18 | 20                       |
| 20           | 113            | 72  | 75   | 45 | 28 | 20 | 29                       |
| 22           | 123            | 80  | 82   | 50 | 30 | 22 | 32                       |
| 24           | 135            | 90  | 92   | 56 | 34 | 24 | 47                       |
| 26           | 145            | 99  | 100  | 62 | 36 | 26 | 59                       |
| 28           | 162            | 112 | 110  | 70 | 38 | 28 | 80                       |
| 30           | 175            | 120 | 120  | 75 | 42 | 30 | 110                      |

# STANDARD WIRE ROPE THIMBLES

美式套環G-411

シンプル USタイプ G-411

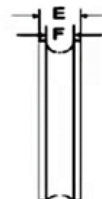
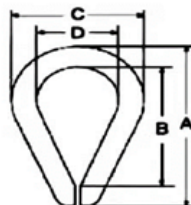


| Size        |       | Dimensions(in) |      |      |      |       |       | Weight<br>100pcs<br>(lbs) |
|-------------|-------|----------------|------|------|------|-------|-------|---------------------------|
| (in)        | (mm)  | A              | B    | C    | D    | E     | F     |                           |
| 1/8         | 3-4   | 1.94           | 1.31 | 1.06 | 0.69 | 0.25  | 0.16  | 3.50                      |
| 3/16        | 5     | 1.94           | 1.31 | 1.06 | 0.69 | 0.31  | 0.22  | 3.50                      |
| 1/4         | 6-7   | 1.94           | 1.31 | 1.06 | 0.69 | 0.38  | 0.28  | 3.50                      |
| 5/16        | 8     | 2.13           | 1.50 | 1.25 | 0.81 | 44.00 | 0.34  | 4.00                      |
| 3/8         | 9-0   | 2.38           | 1.63 | 1.47 | 0.94 | 53.00 | 41.00 | 6.70                      |
| 1/2         | 11-13 | 2.75           | 1.88 | 1.75 | 1.13 | 69.00 | 0.53  | 12.50                     |
| 5/8         | 16    | 3.50           | 2.25 | 2.38 | 1.38 | 0.91  | 66.00 | 34.50                     |
| 3/4         | 18-20 | 3.75           | 2.50 | 2.69 | 1.63 | 1.08  | 0.78  | 47.10                     |
| 7/8         | 22    | 5.00           | 3.50 | 3.19 | 1.88 | 1.27  | 0.94  | 84.60                     |
| 1           | 24-26 | 5.69           | 4.25 | 3.75 | 2.50 | 1.39  | 1.06  | 97.50                     |
| 1 1/8-1 1/4 | 28-32 | 6.25           | 4.50 | 4.31 | 2.75 | 1.75  | 1.31  | 175.00                    |

# EXTRA HEAVY WIRE ROPE THIMBLES

美式套環G-414

シンプル USタイプ G-414

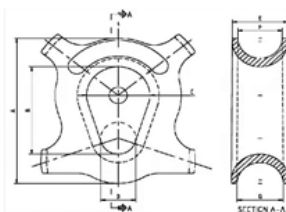


| Size        |       | Dimensions(in) |       |       |      |      |      | Weight<br>100pcs<br>(lbs) |
|-------------|-------|----------------|-------|-------|------|------|------|---------------------------|
| (in)        | (mm)  | A              | B     | C     | D    | E    | F    |                           |
| 1/4         | 6-7   | 2.19           | 1.62  | 1.50  | 0.88 | 0.41 | 0.28 | 6.75                      |
| 5/16        | 8     | 2.50           | 1.88  | 1.81  | 1.06 | 0.50 | 0.34 | 11.25                     |
| 3/8         | 9-10  | 2.88           | 2.12  | 2.12  | 1.12 | 0.63 | 0.41 | 23.00                     |
| 7/16        | 11-12 | 3.25           | 2.38  | 2.38  | 1.25 | 0.72 | 0.47 | 37.00                     |
| 1/2-9/16    | 13-15 | 3.62           | 2.75  | 2.75  | 1.50 | 0.89 | 0.59 | 50.00                     |
| 5/8         | 16    | 4.25           | 3.25  | 3.12  | 1.75 | 1.00 | 0.66 | 75.00                     |
| 3/4         | 18-20 | 5.00           | 3.75  | 3.81  | 2.00 | 1.22 | 0.78 | 147.00                    |
| 7/8         | 22    | 5.50           | 4.25  | 4.25  | 2.25 | 1.38 | 0.94 | 175.00                    |
| 1           | 24-26 | 6.12           | 4.50  | 4.75  | 2.50 | 1.56 | 1.06 | 280.00                    |
| 1 1/8-1 1/4 | 28-32 | 7.00           | 5.12  | 5.88  | 2.88 | 1.88 | 1.31 | 400.00                    |
| 1 1/4-1 3/8 | 32-35 | 9.08           | 6.50  | 6.81  | 3.50 | 2.25 | 1.44 | 820.00                    |
| 1 3/8-1 1/2 | 35-38 | 9.00           | 6.25  | 7.12  | 3.50 | 2.62 | 1.56 | 1175.00                   |
| 1 5/8       | 40    | 11.25          | 8.00  | 8.12  | 4.00 | 3.00 | 1.72 | 1700.00                   |
| 1 3/4       | 48-52 | 12.19          | 9.00  | 8.50  | 4.50 | 3.06 | 1.84 | 1775.00                   |
| 1 7/8-2     | 48-52 | 15.12          | 12.00 | 10.38 | 6.00 | 3.38 | 2.09 | 2500.00                   |
| 2 1/4       | 56    | 17.50          | 14.00 | 11.88 | 7.00 | 3.88 | 2.38 | 3950.00                   |

# Synthetic Rope Thimble Galvanized

龟型套环

シンプル 重型 亀型タイプ

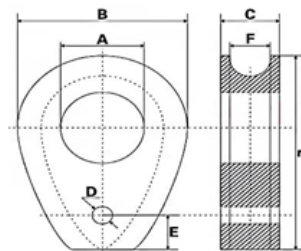


| ROPE DIAMETER<br>(mm) | Dimensions(mm) |       |       |       |       |       |       | WEIGHT(kg)<br>APPROX |
|-----------------------|----------------|-------|-------|-------|-------|-------|-------|----------------------|
|                       | A              | B     | C     | D     | E     | F     | G     |                      |
| Ø16/Ø22               | 111.5          | 65.0  | 32.0  | 10.0  | 37.0  | 28.0  | 35.0  | TBA                  |
| Ø24/Ø30               | 146.5          | 90.0  | 51.0  | 28.0  | 47.0  | 37.0  | 40.0  | 1.25                 |
| Ø32/Ø40               | 196.0          | 127.0 | 85.0  | 42.0  | 57.0  | 46.0  | 50.0  | 2.25                 |
| Ø44                   | 205.0          | 140.0 | 86.0  | 42.0  | 64.0  | 52.0  | 54.0  | 3.40                 |
| Ø48/Ø56               | 247.0          | 149.0 | 92.0  | 44.0  | 85.0  | 70.0  | 76.0  | 5.30                 |
| Ø64                   | 274.5          | 159.0 | 102.0 | 54.0  | 95.0  | 76.0  | 79.0  | 7.90                 |
| Ø72                   | 316.0          | 194.0 | 120.0 | 68.0  | 102.0 | 83.0  | 89.0  | 12.25                |
| Ø80                   | 349.0          | 217.5 | 127.0 | 70.0  | 108.0 | 89.0  | 98.0  | 14.45                |
| Ø88/Ø96               | 403.5          | 241.0 | 156.0 | 86.0  | 140.0 | 114.0 | 117.0 | 26.40                |
| Ø112                  | 477.5          | 280.0 | 184.0 | 104.0 | 170.0 | 140.0 | 145.0 | 30.00                |

# Heavy Malleable Ring

重型套环

デッドアイシンプル

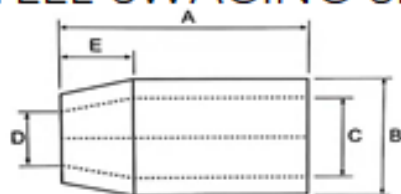


| Size<br>(m) | Iain technical parameters |           |           |           |           |           |           | Weight<br>(kg/100pcs) |
|-------------|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|
|             | F<br>(mm)                 | C<br>(mm) | A<br>(mm) | B<br>(mm) | L<br>(mm) | D<br>(mm) | E<br>(mm) |                       |
| 8           | 8.6                       | 14.0      | 20.0      | 40.0      | 56.0      | 5.0       | 20.0      | 8.0                   |
| 10          | 10.8                      | 17.0      | 25.0      | 50.0      | 70.0      | 5.0       | 20.0      | 17.0                  |
| 12          | 12.9                      | 21.0      | 30.0      | 60.0      | 84.0      | 5.0       | 20.0      | 32.0                  |
| 14          | 15.1                      | 24.0      | 35.0      | 70.0      | 98.0      | 5.0       | 20.0      | 50.0                  |
| 16          | 17.2                      | 28.0      | 40.0      | 80.0      | 112.0     | 5.0       | 20.0      | 78.0                  |
| 18          | 19.4                      | 31.0      | 45.0      | 90.0      | 126.0     | 5.0       | 20.0      | 114.0                 |
| 20          | 21.5                      | 35.0      | 50.0      | 100.0     | 140.0     | 10.0      | 30.0      | 141.0                 |
| 22          | 23.7                      | 38.0      | 55.0      | 110.0     | 154.0     | 10.0      | 30.0      | 196.0                 |
| 24          | 25.8                      | 42.0      | 60.0      | 120.0     | 168.0     | 10.0      | 30.0      | 241.0                 |
| 26          | 28.0                      | 45.0      | 65.0      | 130.0     | 182.0     | 10.0      | 30.0      | 346.0                 |
| 28          | 30.1                      | 49.0      | 70.0      | 140.0     | 196.0     | 10.0      | 30.0      | 430.0                 |
| 32          | 34.4                      | 56.0      | 80.0      | 160.0     | 224.0     | 10.0      | 30.0      | 646.0                 |
| 36          | 38.7                      | 63.0      | 90.0      | 180.0     | 252.0     | 10.0      | 30.0      | 977.0                 |
| 40          | 43.0                      | 70.0      | 100.0     | 200.0     | 280.0     | 10.0      | 30.0      | 1294.0                |
| 44          | 47.3                      | 77.0      | 110.0     | 220.0     | 308.0     | 15.0      | 45.0      | 1702.0                |
| 48          | 51.6                      | 84.0      | 120.0     | 240.0     | 336.0     | 15.0      | 45.0      | 2275.0                |
| 52          | 55.9                      | 91.0      | 130.0     | 260.0     | 364.0     | 15.0      | 45.0      | 2841.0                |
| 56          | 60.2                      | 98.0      | 140.0     | 280.0     | 392.0     | 15.0      | 45.0      | 3556.0                |

# FLEMISH EYE STEEL SWAGING SLEEVES(S-505)

法烈米氏钢套 (S-505)

フレミッシュアイスチール



| For Wire Rope |            | Dimension(inch) |       |      |      |      | Max. After Swage Dimensions (inch) | Weight kgs/100pcs |
|---------------|------------|-----------------|-------|------|------|------|------------------------------------|-------------------|
| Size(mm)      | Size(inch) | A               | B     | D    | E    | C    |                                    |                   |
| 6-7mm         | 1/4"       | 1               | 0.66  | 0.31 | 0.28 | 0.47 | 0.57                               | 2.27              |
| 8mm           | 5/16"      | 1.5             | 0.91  | 0.38 | 0.44 | 0.62 | 0.75                               | 6.36              |
| 9-10mm        | 3/8"       | 1.5             | 0.91  | 0.47 | 0.39 | 0.66 | 0.75                               | 6.36              |
| 11mm          | 7/16"      | 2               | 1.22  | 0.53 | 0.65 | 0.85 | 1.01                               | 15                |
| 13mm          | 1/2"       | 2               | 1.22  | 0.63 | 0.56 | 0.91 | 1.01                               | 13                |
| 14mm          | 9/16"      | 2.75            | 1.47  | 0.7  | 0.63 | 1.03 | 1.24                               | 29                |
| 16mm          | 5/8"       | 2.75            | 1.47  | 0.75 | 0.63 | 1.09 | 1.24                               | 26                |
| 18-19mm       | 3/4"       | 3.19            | 1.72  | 0.91 | 0.84 | 1.28 | 1.46                               | 40                |
| 22mm          | 7/8"       | 3.56            | 2.03  | 1.03 | 1    | 1.53 | 1.68                               | 60                |
| 25-26mm       | 1"         | 4               | 2.28  | 1.16 | 1.13 | 1.72 | 1.93                               | 89                |
| 28-29mm       | 1 1/8"     | 4.8             | 2.5   | 1.28 | 1.25 | 1.94 | 2.13                               | 118               |
| 31-32mm       | 1 1/4"     | 5.19            | 2.78  | 1.44 | 1.41 | 2.16 | 2.32                               | 161               |
| 34-35mm       | 1 3/8"     | 5.81            | 3     | 1.56 | 1.56 | 2.38 | 2.52                               | 192               |
| 37-38mm       | 1 1/2"     | 6.25            | 3.25  | 1.69 | 1.69 | 2.63 | 2.71                               | 227               |
| 44-45mm       | 1 3/4"     | 7.25            | 3.84  | 1.94 | 1.97 | 3.13 | 3.1                                | 366               |
| 50-52mm       | 2"         | 8.5             | 4.38  | 2.25 | 2.25 | 3.63 | 3.56                               | 514               |
| 56-57mm       | 2 1/4"     | 9.56            | 5.03  | 2.5  | 2.53 | 4.03 | 4.12                               | 879               |
| 62-64mm       | 2 1/2"     | 10.5            | 5.5   | 2.75 | 2.81 | 4.5  | 4.5                                | 1068              |
| 68-70mm       | 2 3/4"     | 11.5            | 5.75  | 3    | 3.09 | 4.75 | 4.7                                | 1271              |
| 75-76mm       | 3"         | 12              | 6     | 3.25 | 3.38 | 5    | 4.96                               | 1335              |
| 85-87mm       | 3 1/4"     | 13              | 6.5   | 3.86 | 3.54 | 5.43 | 5.37                               | 1650              |
| 87-89mm       | 3 1/2"     | 14              | 7     | 3.88 | 3.94 | 5.84 | 5.77                               | 2106              |
| 93-95mm       | 3 3/4"     | 15              | 7.5   | 4.06 | 4.25 | 6.31 | 6.23                               | 2497              |
| 100-105mm     | 4"         | 16              | 8.13  | 4.38 | 4.5  | 6.81 | 6.69                               | 3087              |
| 112-114mm     | 4 1/2"     | 18              | 9.13  | 4.88 | 5.06 | 7.66 | 7.45                               | 4540              |
| 128-130mm     | 5"         | 20              | 10.52 | 5.5  | 5.63 | 8.73 | 8.28                               | 6600              |
| 150-155mm     | 6"         | 24              | 12.54 | 6.5  | 6.75 | 10.2 | 9.93                               | 12300             |

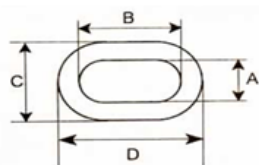
产品工艺：锻造，热处理，喷砂，自动打标，  
 确保 1/4"-6" 法烈米氏钢套的稳定质量（电镀以及原色）

Our modern in-house forging, heat treatment, sand blasting, auto-marking facilities assures the consistent quality of Flemish eye steel sleeves from 1/4" to 6" (galvanized and self-colored)

# ALUMINIUM OVAL SLEEVES

美式椭圆形铝套

アルミスリーブ ストレート型

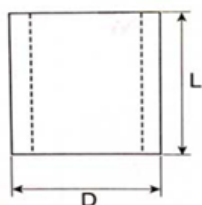
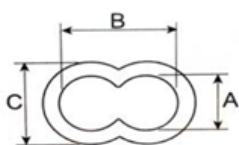


| Size   | Dimensions(mm) |      |      |       |       | Weight<br>1000pcs<br>kg |
|--------|----------------|------|------|-------|-------|-------------------------|
|        | A              | B    | C    | D     | L     |                         |
| 1/4"   | 7.6            | 15.0 | 13.5 | 21.3  | 25.4  | 1.05                    |
| 5/16"  | 7.7            | 19.1 | 16.8 | 26.2  | 30.5  | 1.95                    |
| 3/8"   | 11.2           | 21.3 | 19.1 | 29.5  | 35.1  | 2.41                    |
| 7/16"  | 12.7           | 25.4 | 23.1 | 35.8  | 43.7  | 5.00                    |
| 1/2"   | 15.2           | 29.7 | 26.2 | 41.4  | 49.3  | 7.50                    |
| 9/16"  | 18.3           | 35.1 | 31.0 | 48.0  | 56.4  | 10.00                   |
| 5/8"   | 19.1           | 38.1 | 35.1 | 53.1  | 63.5  | 14.55                   |
| 3/4"   | 21.1           | 42.9 | 38.1 | 60.5  | 73.2  | 23.64                   |
| 7/8"   | 24.1           | 47.8 | 42.9 | 66.8  | 76.2  | 30.45                   |
| 1"     | 27.7           | 56.4 | 50.0 | 78.5  | 95.3  | 56.82                   |
| 1 1/8" | 32.5           | 65.0 | 58.7 | 91.2  | 108.7 | 78.18                   |
| 1 1/4" | 35.1           | 70.6 | 63.5 | 98.6  | 112.8 | 97.27                   |
| 1 1/2" | 42.2           | 83.8 | 79.5 | 120.7 | 141.0 | 177.27                  |

# ALUMINIUM HOURGLASS SLEEVES

美式八字形铝套

ワイヤロープスリーブ 8文字型 アルミニウム製

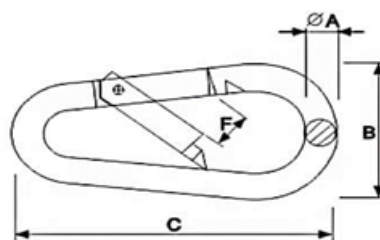


| Size  | Dimensions(mm) |       |       |       |       | Weight<br>1000pcs<br>kg |
|-------|----------------|-------|-------|-------|-------|-------------------------|
|       | A              | B     | C     | D     | L     |                         |
| 1.19  | 1.59           | 3.18  | 3.60  | 5.20  | 9.50  | 0.276                   |
| 1.58  | 1.98           | 3.97  | 4.40  | 6.40  | 9.50  | 0.433                   |
| 1.98  | 2.38           | 4.76  | 5.20  | 7.90  | 9.50  | 0.645                   |
| 2.38  | 3.18           | 6.35  | 7.10  | 10.30 | 12.70 | 1.45                    |
| 3.18  | 3.97           | 7.94  | 8.70  | 12.70 | 15.80 | 2.70                    |
| 3.97  | 4.76           | 9.53  | 9.30  | 14.30 | 17.40 | 3.67                    |
| 4.76  | 5.56           | 11.11 | 11.11 | 16.70 | 25.10 | 7.18                    |
| 5.56  | 6.35           | 12.70 | 12.70 | 19.00 | 26.90 | 10.00                   |
| 6.35  | 7.14           | 14.29 | 13.50 | 20.60 | 28.50 | 11.76                   |
| 7.14  | 7.94           | 15.88 | 14.30 | 22.20 | 30.10 | 13.62                   |
| 7.94  | 9.53           | 19.05 | 17.50 | 26.20 | 31.70 | 20.94                   |
| 9.53  | 11.11          | 22.23 | 19.10 | 29.40 | 36.50 | 28.18                   |
| 11.11 | 12.70          | 25.40 | 23.80 | 36.50 | 42.80 | 52.00                   |
| 12.7  | 14.29          | 28.58 | 27.00 | 41.30 | 50.80 | 80.15                   |
| 14.29 | 15.88          | 31.75 | 28.60 | 44.50 | 53.90 | 99.88                   |
| 15.88 | 17.64          | 34.93 | 31.80 | 49.20 | 63.50 | 139.78                  |

# DIN5299B Galvanized Snap Hook

DIN5299B 弹簧钩

ナス型カラビナ (環なし)

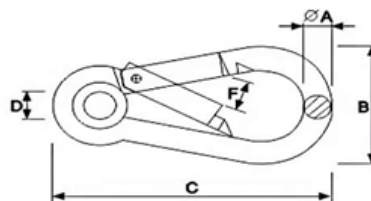


| Size   | A    | B    | C    | F    | W.L.L. |
|--------|------|------|------|------|--------|
| (mm)   | (mm) | (mm) | (mm) | (mm) | (kg)   |
| 5x50   | 5    | 25   | 50   | 7    | 100    |
| 6x60   | 6    | 30   | 60   | 8    | 140    |
| 7x70   | 7    | 35   | 70   | 8    | 200    |
| 8x80   | 8    | 40   | 80   | 9    | 250    |
| 9x90   | 9    | 45   | 90   | 10   | 280    |
| 10x100 | 10   | 50   | 100  | 11   | 400    |
| 11x120 | 11   | 57   | 120  | 16   | 500    |
| 12x140 | 12   | 67   | 140  | 19   | 600    |

# Galvanized Snap Hook with Eyelet DIN5299 A

DIN5299A 弹簧钩

スナップフック A型

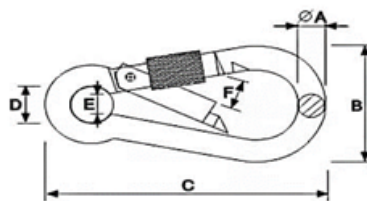


| Size   | A    | B    | C    | D    | F    | W.L.L. |
|--------|------|------|------|------|------|--------|
| (mm)   | (mm) | (mm) | (mm) | (mm) | (mm) | (kg)   |
| 4x40   | 4    | 20   | 40   | 5    | 7    | 80     |
| 5x50   | 5    | 25   | 50   | 5    | 7    | 100    |
| 6x60   | 6    | 30   | 60   | 5    | 8    | 140    |
| 7x70   | 7    | 35   | 70   | 7    | 8    | 200    |
| 8x80   | 8    | 40   | 80   | 10   | 9    | 250    |
| 9x90   | 9    | 45   | 90   | 10   | 10   | 280    |
| 10x100 | 10   | 50   | 100  | 13   | 11   | 400    |
| 11x120 | 11   | 57   | 120  | 13   | 16   | 500    |
| 12x140 | 12   | 67   | 140  | 15   | 19   | 600    |
| 13x160 | 13   | 74   | 160  | 17   | 25   | 700    |
| 14x180 | 14   | 86   | 180  | 17   | 35   | 900    |

# Galvanized DIN5299 D Screw Lock Snap Hook

DIN5299D 弹簧钩

カラビナ D型 (環付き)

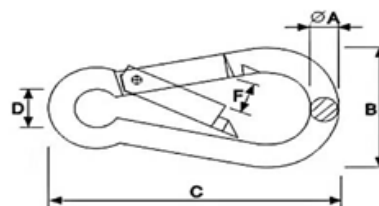


| Size<br>(mm) | A<br>(mm) | B<br>(ww) | C<br>(wu) | D<br>(ww) | F<br>(mm) | W.L.L.<br>(kg) |
|--------------|-----------|-----------|-----------|-----------|-----------|----------------|
| 4x40         | 4         | 20        | 40        | 7         | 7         | 80             |
| 5x50         | 5         | 25        | 50        | 8         | 7         | 100            |
| 09x9         | 6         | 30        | 60        | 9         | 8         | 140            |
| 7x70         | 7         | 35        | 70        | 10        | 8         | 200            |
| 8x80         | 8         | 40        | 80        | 12        | 9         | 250            |
| 9x90         | 9         | 45        | 90        | 12        | 10        | 280            |
| 10x100       | 10        | 50        | 100       | 15        | 11        | 400            |
| 11x120       | 11        | 57        | 120       | 18        | 16        | 500            |
| 12x140       | 12        | 67        | 140       | 20        | 19        | 600            |
| 13x160       | 13        | 74        | 160       | 22        | 25        | 700            |
| 14x180       | 14        | 86        | 180       | 22        | 35        | 900            |

# DIN5299C Galvanized Snap Hook

DIN5299C 弹簧钩

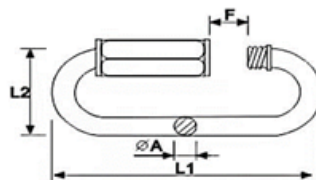
スプリングフックC型 (環なし)



| Size<br>(mm) | A<br>(mm) | B<br>(ww) | C<br>(mm) | D<br>(mm) | F<br>(mm) | W. L. L.<br>(kg) |
|--------------|-----------|-----------|-----------|-----------|-----------|------------------|
| 4x40         | 4         | 20        | 40        | 7         | 7         | 80               |
| 5x50         | 5         | 25        | 50        | 8         | 7         | 100              |
| 6x60         | 6         | 30        | 60        | 9         | 8         | 140              |
| 7x70         | 7         | 35        | 70        | 10        | 8         | 200              |
| 8x80         | 8         | 40        | 80        | 12        | 9         | 250              |
| 9x90         | 9         | 45        | 90        | 12        | 10        | 280              |
| 10x100       | 10        | 50        | 100       | 15        | 11        | 400              |
| 11x120       | 11        | 57        | 120       | 18        | 16        | 500              |
| 12x140       | 12        | 67        | 140       | 20        | 19        | 600              |
| 13x160       | 13        | 74        | 160       | 22        | 25        | 700              |
| 14x180       | 14        | 86        | 180       | 22        | 35        | 6                |

# Galvanized Quick Link

快速连接环  
クイックリンク



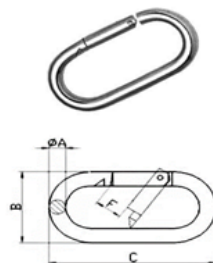
| Size | A    | L1   | L2   | F    | W.L.L. |
|------|------|------|------|------|--------|
| (mm) | (mm) | (mm) | (mm) | (mm) | (kg)   |
| 3.5  | 3.5  | 36.5 | 17   | 5    | 175    |
| 4    | 4    | 40   | 19.5 | 5.5  | 500    |
| 5    | 5    | 49   | 23   | 6.5  | 650    |
| 6    | 6    | 58   | 26.5 | 7.5  | 875    |
| 7    | 7    | 65   | 30.5 | 8.5  | 1200   |
| 8    | 8    | 75   | 33.5 | 10.5 | 1525   |
| 9    | 9    | 82   | 35   | 11.5 | 1975   |
| 10   | 10   | 90   | 40.5 | 12.5 | 2300   |
| 12   | 12   | 107  | 47.5 | 14.5 | 2500   |
| 14   | 14   | 125  | 54.5 | 17   | 2800   |

# Galvanized Track type snap hook

跑道型弹簧钩 DS-0010

オーバルキャッチ

| SIZE   | fA | B  | C   | F  | W. L. L |
|--------|----|----|-----|----|---------|
| mm     | mm | ww | mm  | mm | IBS     |
| 5*50   | 5  | 25 | 50  | 9  | 100     |
| 6*60   | 6  | 30 | 60  | 11 | 140     |
| 8*80   | 8  | 40 | 80  | 13 | 250     |
| 10*100 | 10 | 50 | 100 | 16 | 400     |
| 11*120 | 11 | 58 | 120 | 21 | 500     |

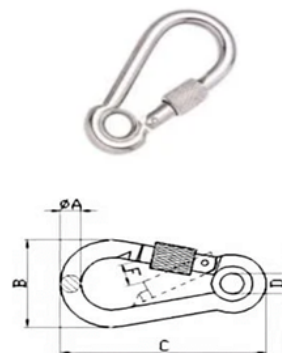


# SNAP HOOK WITH SCREW DIN 5299 D

带圈带螺帽弹簧钩

環付フック D型 (リング付き)

| SIZE   | fA | B  | C   | D  | F  | W.L.L |
|--------|----|----|-----|----|----|-------|
| mm     | mm | mm | mm  | mm | ww | LBS   |
| 4*40   | 4  | 20 | 40  | 7  | 7  | 80    |
| 5*50   | 5  | 25 | 50  | 8  | 7  | 100   |
| 6*60   | 6  | 30 | 60  | 9  | 8  | 140   |
| 7*70   | 7  | 35 | 70  | 10 | 8  | 200   |
| 8*80   | 8  | 40 | 80  | 12 | 9  | 250   |
| 9*90   | 9  | 45 | 90  | 12 | 10 | 280   |
| 10*100 | 10 | 50 | 100 | 15 | 11 | 400   |
| 11*120 | 11 | 57 | 120 | 18 | 16 | 500   |
| 12*140 | 12 | 67 | 140 | 20 | 19 | 9     |
| 13*160 | 13 | 74 | 160 | 22 | 25 | 700   |
| 14*180 | 14 | 86 | 180 | 22 | 35 | 900   |



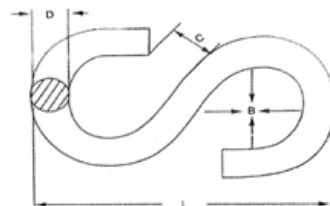


# Steel Galvanized S Hook Connecting Link

S钩

S型フック

| size<br>mm | B<br>mm | C<br>mm | D<br>mm | L<br>mm | NW<br>kg/100pcs |
|------------|---------|---------|---------|---------|-----------------|
| 2.5        | 6       | 3       | 2.5     | 20      | 0.17            |
| 3          | 7       | 3.5     | 3       | 25      | 0.3             |
| 3.5        | 9       | 4       | 3.5     | 30      | 0.48            |
| 4          | 11      | 5       | 4       | 35      | 0.78            |
| 4.5        | 12      | 5.5     | 4.5     | 40      | 1.15            |
| 5          | 14      | 6       | 5       | 45      | 1.52            |
| 6          | 16      | 7       | 6       | 50      | 2.6             |
| 7          | 18      | 8       | 7       | 65      | 4.5             |
| 8          | 23      | 10      | 8       | 75      | 6.5             |
| 10         | 25      | 13      | 10      | 100     | 12.6            |
| 12         | 30      | 15      | 12      | 120     | 15              |

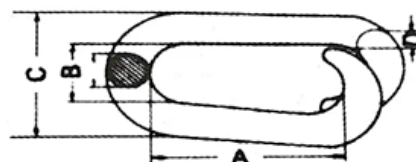


# Repair Lap Link

链卡

チェーン接続用高張力ラップリンク修理リンク

| Size<br>(in) | Dimensions (mm) |      |    |      | Weighth<br>(Ibs) |
|--------------|-----------------|------|----|------|------------------|
|              | A               | B    | C  | D    |                  |
| 3/16x1       | 25              | 13   | 23 | 5    | 0.009            |
| 1/4x1 1/4    | 32              | 12.7 | 25 | 6    | 0.010            |
| 5/16x1 1/2   | 38              | 16   | 32 | 8    | 0.019            |
| 3/8x1 5/8    | 41              | 19   | 39 | 10   | 0.037            |
| 1/2x2 1/2    | 63.5            | 25   | 50 | 12.5 | 0.070            |



# Cold Shut

链扣

チェーン調整フック

| Size<br>(in) | W. L. L.<br>(Ibs) | Inside<br>Length | Inside<br>Width | Weighth<br>(Ibs) |
|--------------|-------------------|------------------|-----------------|------------------|
| 3/16         | 525               | 1 1/16           | 5/16            | 0.03             |
| 1/4          | 925               | 1 3/16           | 3/8             | 0.06             |
| 5/16         | 1450              | 1 7/16           | 13/32           | 0.09             |
| 3/8          | 2110              | 1 1/4            | 5/8             | 0.18             |
| 7/16         | 2850              | 1 3/8            | 13/16           | 0.26             |
| 1/2          | 3750              | 1 9/16           | 13/16           | 0.38             |
| 5/8          | 5850              | 2 1/4            | 3/4             | 0.78             |
| 3/4          | 8425              | 2 1/2            | 7/8             | 1.3              |
| 7/8          | 11475             | 3 3/8            | 1               | 2                |
| 1            | 15000             | 3 7/8            | 13/16           | 3.25             |



# CASTINGS



Medical Apparatus and instru...



Woodworking machinery



Well cover & hole



Cast Iron Fixing Clamp



Water Pump Castings , Machi...



Turning wheel casting breedin...



Turning wheel casting breedin...



Turning wheel casting breedin...



Turning wheel casting breedin...



Turning wheel casting breedin...



Seabed fiber optic cable prote...



Base bracket casting



Woodworking machinery cou...



Weighted plate cast steel



Bolt on and Weldable Contain...



Seabed cable protection tube

# CUSTOM PRODUCTS



Tip Hook Iron Welding



Corner Stay Square Corner



Eye Plate Square type w/Round...



Corner Stay Square Corner / Fi...



Mounting Bracket / Pipe type ...



Bracket



Three Bolt Guy Clamp XQX 005



Crossover Clamp XQX 007



Two Bolt Guy Clamp Offset St...



One Bolt Guy Clamp XQX 009



Single Guy Clamp



Wire tensioner / tensioner



Mezzanine Floor Cleats XQX015



Shelf Bracket/Corner Stay Rou...



Shelf Bracket/Corner Stay Rou...



Pointed Chisel

# CUSTOM PRODUCTS

Can accept incoming samples to map processing and customization



Dual Axis Knuckle / Wire rope ...



S hook



Turnbuckles Suit



Custom Made Bolts

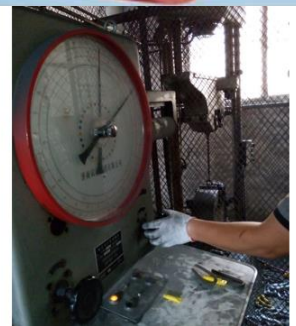
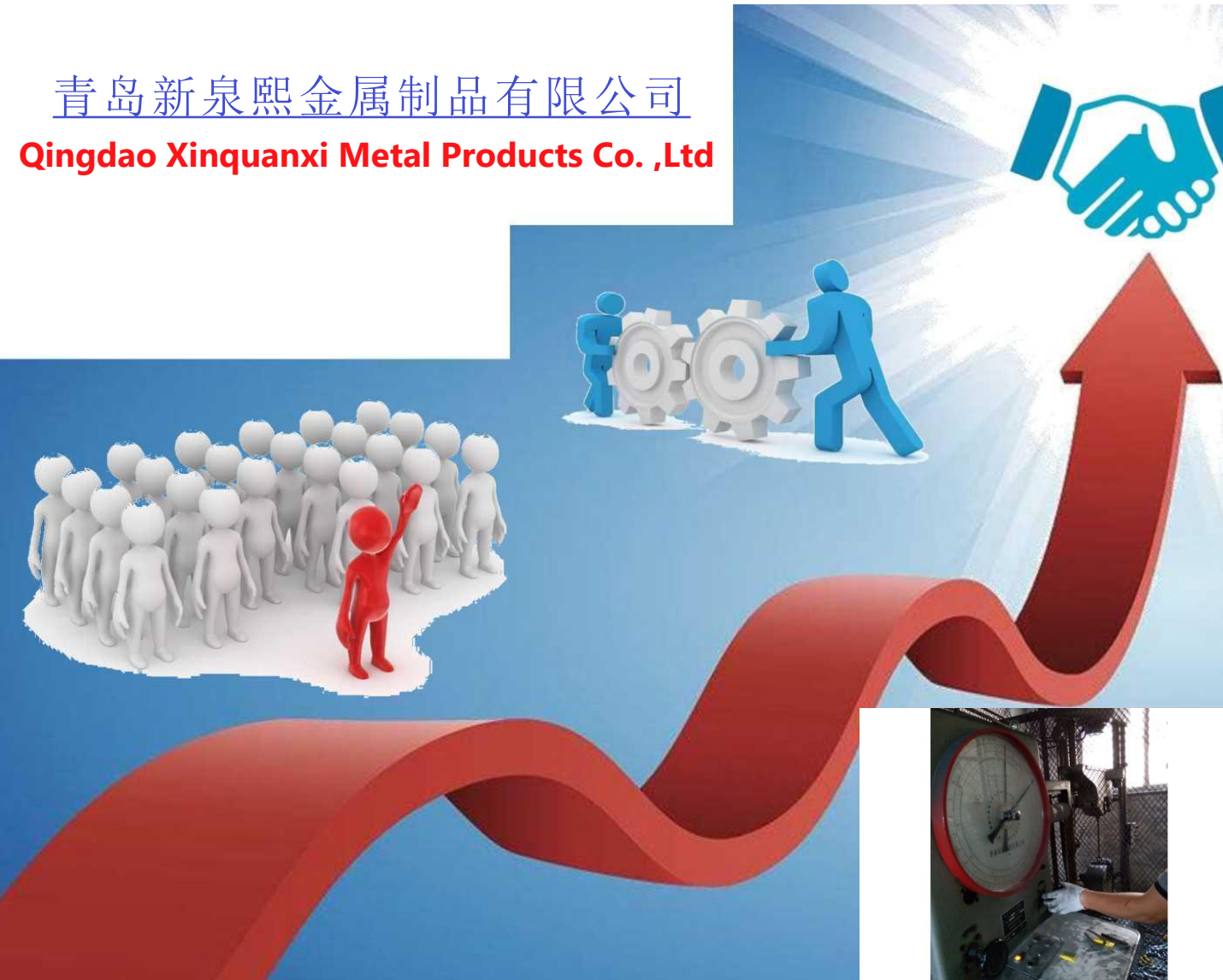




The main production and operation of hardware rigging, wire rope connecting parts, hardware machinery, Marine and automobile connecting parts, all kinds of forging, sheet metal, stamping, casting parts and other products.

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