

Note that, for some of the types shown here, order might be unable to be received by the MISUMI Thailand, Malaysia, Indonesia, and/or India offices.

# Hex Socket Head Cap Screws

Steel (Available in Box)

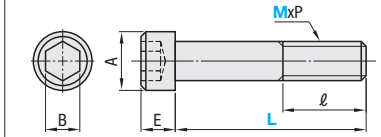
# Hex Socket Head Cap Screws

Steel (Available in Single item)



| Type    | Material | Surface Treatment | Hardness |
|---------|----------|-------------------|----------|
| BOX-CBF | SCM435   | Black Oxide       | 38-43HRC |

Strength Class 12.9



| MxP (Coarse) | A   | E   | B   |
|--------------|-----|-----|-----|
| 2 x0.4       | 3.8 | 2   | 1.5 |
| 2.5x0.45     | 4.5 | 2.5 | 2   |
| 2.6x0.45     | 4.5 | 2.6 | 2   |
| 3 x0.5       | 5.5 | 3   | 2.5 |
| 4 x0.7       | 7   | 4   | 3   |
| 5 x0.8       | 8.5 | 5   | 4   |
| 6 x1.0       | 10  | 6   | 5   |
| 8 x1.25      | 13  | 8   | 6   |
| 10 x1.5      | 16  | 10  | 8   |

Can be ordered as a separate item. P.172

\*The strength class signifies the screw's tensile strength.  
(Ex.) 12.9  
This indicates that the minimum value for yielding point or proof stress is 90% of tensile strength.  
This indicates that the minimum value of tensile strength is 1220N/mm<sup>2</sup>.

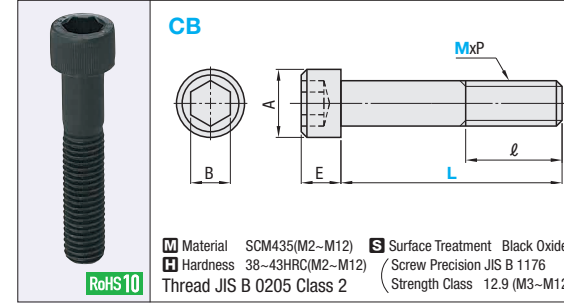
Please specify in box quantity when ordering.  
One box is shipped for an order of 1.

Ordering Example  
Part Number  
BOX-CBF3-6

Box package is cost-saving for in-house stock or when large quantities are needed.

| ℓ  | Part Number            |        | Unit Price 1~50 boxes |       | Pcs./Box       |
|----|------------------------|--------|-----------------------|-------|----------------|
|    | Type                   | M-L    | Price per pkg.        | 1 Box |                |
| 16 | Studs - Fully Threaded | 2- 5   |                       |       | 1,000 pcs./box |
|    |                        | 8      |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 12     |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 2.5- 5 |                       |       |                |
|    |                        | 8      |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 2.6- 5 |                       |       |                |
|    |                        | 8      |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 3- 5   |                       |       |                |
|    |                        | 6      |                       |       |                |
|    |                        | 8      |                       |       |                |
|    |                        | 10     |                       |       |                |
| 18 | Studs - Fully Threaded | 12     |                       |       | 500 pcs./box   |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 4- 5   |                       |       |                |
|    |                        | 6      |                       |       |                |
|    |                        | 8      |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 12     |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 40     |                       |       |                |
| 20 | Studs - Fully Threaded | 35     |                       |       | 400 pcs./box   |
|    |                        | 40     |                       |       |                |
|    |                        | 5- 8   |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 12     |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 5- 8   |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 12     |                       |       |                |
|    |                        | 15     |                       |       |                |
| 20 |                        |        |                       |       |                |
| 22 | Studs - Fully Threaded | 25     |                       |       | 600 pcs./box   |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 6- 8   |                       |       |                |
|    |                        | 10     |                       |       |                |
|    |                        | 12     |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 6- 8   |                       |       |                |
|    |                        | 10     |                       |       |                |
| 12 |                        |        |                       |       |                |
| 15 |                        |        |                       |       |                |
| 24 | Studs - Fully Threaded | 20     |                       |       | 400 pcs./box   |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 8-12   |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 8-12   |                       |       |                |
|    |                        | 15     |                       |       |                |
|    |                        | 20     |                       |       |                |
| 25 |                        |        |                       |       |                |
| 28 | Studs - Fully Threaded | 30     |                       |       | 300 pcs./box   |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 10-20  |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 10-20  |                       |       |                |
|    |                        | 25     |                       |       |                |
|    |                        | 30     |                       |       |                |
|    |                        | 35     |                       |       |                |
|    |                        | 40     |                       |       |                |
|    |                        | 10-20  |                       |       |                |
|    |                        | 25     |                       |       |                |
| 30 |                        |        |                       |       |                |
| 35 |                        |        |                       |       |                |
| 40 |                        |        |                       |       |                |

When you need large quantities, box packaging is more economical. P.171



Material SCM435(M2-M12) Surface Treatment Black Oxide  
Hardness 38-43HRC(M2-M12) (Screw Precision JIS B 1176)  
Thread JIS B 0205 Class 2 (Strength Class 12.9 (M3-M12))

| MxP      | A   | E   | B   |
|----------|-----|-----|-----|
| 2x0.4    | 3.8 | 2   | 1.5 |
| 2.5x0.45 | 4.5 | 2.5 | 2   |
| 2.6x0.45 | 4.5 | 2.6 | 2   |
| 3x0.5    | 5.5 | 3   | 2.5 |
| 4x0.7    | 7   | 4   | 3   |
| 5x0.8    | 8.5 | 5   | 4   |
| 6x1.0    | 10  | 6   | 5   |
| 8x1.25   | 13  | 8   | 6   |
| 10x1.5   | 16  | 10  | 8   |
| 12x1.75  | 18  | 12  | 10  |

\*The strength class signifies the screw's tensile strength.  
(Ex.) 12.9  
This indicates that the minimum value for yielding point or proof stress is 90% of tensile strength.  
This indicates that the minimum value of tensile strength is 1220N/mm<sup>2</sup>.  
(Ex.) 10.9  
This indicates that the minimum value for yielding point or proof stress is 90% of tensile strength.  
This indicates that the minimum value of tensile strength is 1040N/mm<sup>2</sup>.

Reference: Dimensions of Counterbore and Cap Screw Hole for Hex Socket Head Cap Screws P.1891

| Part Number | ℓ | Unit Price    |
|-------------|---|---------------|
| Type M- L   |   | 1 ~ 1000 pcs. |
| CB 2- 4     | 4 |               |
| 5           |   |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 15          |   |               |
| CB 2.5- 4   | 4 |               |
| 5           |   |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 15          |   |               |
| CB 2.6- 4   | 4 |               |
| 5           |   |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 15          |   |               |
| CB 3- 5     | 5 |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 14          |   |               |
| 15          |   |               |
| 16          |   |               |
| 18          |   |               |
| 20          |   |               |
| 22          |   |               |
| 25          |   |               |
| 30          |   |               |
| 35          |   |               |
| 40          |   |               |
| 45          |   |               |
| 50          |   |               |
| 55          |   |               |
| CB 4- 5     | 5 |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 14          |   |               |
| 15          |   |               |
| 16          |   |               |
| 18          |   |               |
| 20          |   |               |
| 22          |   |               |
| 25          |   |               |
| 30          |   |               |
| 35          |   |               |
| 40          |   |               |
| 45          |   |               |
| 50          |   |               |
| 55          |   |               |
| 60          |   |               |

| Part Number | ℓ | Unit Price    |
|-------------|---|---------------|
| Type M- L   |   | 1 ~ 1000 pcs. |
| CB 5- 5     | 5 |               |
| 6           |   |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 14          |   |               |
| 15          |   |               |
| 16          |   |               |
| 18          |   |               |
| 20          |   |               |
| 22          |   |               |
| 25          |   |               |
| 30          |   |               |
| 35          |   |               |
| 40          |   |               |
| 45          |   |               |
| 50          |   |               |
| 55          |   |               |
| 60          |   |               |
| 65          |   |               |
| 70          |   |               |
| 75          |   |               |
| CB 6- 6     | 6 |               |
| 8           |   |               |
| 10          |   |               |
| 12          |   |               |
| 14          |   |               |
| 15          |   |               |
| 16          |   |               |
| 18          |   |               |
| 20          |   |               |
| 22          |   |               |
| 25          |   |               |
| 30          |   |               |
| 35          |   |               |
| 40          |   |               |
| 45          |   |               |
| 50          |   |               |
| 55          |   |               |
| 60          |   |               |
| 65          |   |               |
| 70          |   |               |
| 75          |   |               |
| 80          |   |               |
| 85          |   |               |
| 90          |   |               |
| 95          |   |               |

| Part Number | ℓ  | Unit Price    |
|-------------|----|---------------|
| Type M- L   |    | 1 ~ 1000 pcs. |
| CB 8- 8     | 8  |               |
| 10          |    |               |
| 12          |    |               |
| 15          |    |               |
| 16          |    |               |
| 18          |    |               |
| 20          |    |               |
| 22          |    |               |
| 25          |    |               |
| 30          |    |               |
| 35          |    |               |
| 40          |    |               |
| 45          |    |               |
| 50          |    |               |
| 55          |    |               |
| 60          |    |               |
| 65          |    |               |
| 70          |    |               |
| 75          |    |               |
| CB 10- 10   | 10 |               |
| 12          |    |               |
| 15          |    |               |
| 20          |    |               |
| 25          |    |               |
| 30          |    |               |
| 35          |    |               |
| 40          |    |               |
| 45          |    |               |
| 50          |    |               |
| 55          |    |               |
| 60          |    |               |
| 65          |    |               |
| 70          |    |               |
| CB 12- 15   | 15 |               |
| 20          |    |               |
| 25          |    |               |
| 30          |    |               |
| 35          |    |               |
| 40          |    |               |
| 45          |    |               |
| *50         |    |               |

Screws larger and longer than M12 are listed on the catalog of Standard Components for Press Molds.

Ordering Example  
Part Number  
CB8-40