CB SERIES MANUAL CHAIN HOIST & TS SERIES TROLLEY

KITO MIGHTY Model M3

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• The specifications in this catalog are partly subject to change without prior notice.
KITO Manual Chain Hoists
CB Series - Up to 50 ton Standard Capacity

KITO MIGHTY Model M3 incorporates state-of-the-art design and technology to provide superior performance. Lighter and more compact than others in its class, yet highly efficient, this hoist spares nothing when it comes to lifting power. With capacities from 0.5t to 50t, the Model M3 shines in a wide range of lifting applications. Helping to set this hoist apart is the use of KITO’s smallest yet strongest load chain. This load chain has a breaking strength of 1,000N/mm² (100kgf/mm²). KITO’s exclusive process technology and years of experience assure superior quality and performance. With its impressive array of features and benefits, we are confident the Model M3 will meet your most demanding needs.

Outstanding features
A high-strength load chain and a dry-type braking mechanism combine with a highly-efficient compact design to provide smooth and reliable operation and outstanding performance.

Best Design
Highest Efficiency
and Reliability
KITO MODEL M3
KITO Manual Chain Hoists

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Highest Efficiency
and Reliability

KITO MODEL M3
1. **Gear Case and Hand Wheel Cover are Resistant to External Shocks**
   Both sides of the hoist are covered with a thick steel gear case and reinforced wheel cover. Manufactured using state-of-the-art technology, these critical components are ideally shaped and highly rigid to maintain bearing alignment and withstand external shock.

2. **Double Enclosures Protect Against Rainwater and Dust Intrusion**
   The braking mechanism, comprising the heart of the hoist, is securely enclosed within the wheel and brake covers. This double coverage protects the internal mechanisms from intrusion by weather elements, mud and dust. Further, the hand chain guide attached to the wheel cover provides durability and a smooth operation of the hand chain on the hand chain wheel.

3. **Double Pawl Spring Mechanism Increases Safety and Reliability**
   The MIGHTY M3 insists on two pawl springs to deliver an extra degree of performance in case one spring is damaged.

4. **Sure and Reliable Mechanical Brake**
   KITO’s dry-type asbestos-free mechanical brake ensures outstanding stopping power and safety for high performance operation.

5. **Hooks for Easy Work**
   Heat-treated to withstand the rigors of the toughest jobs, the MIGHTY M3’s top and bottom hooks are ready to make your work easier. The bottom hook’s relatively large dimensions enable a load to be quickly stabilized in the proper position while the bottom yoke’s protecting guard protects the chain pin and nut from damage, further enhancing safety.

6. **Bearing Mechanism Increases Mechanical Efficiency**
   KITO’s unique ball and needle bearings optimize mechanical efficiency and produce high power output with a minimum of manual input.

7. **Load Chain Guide Mechanism Smooths Operation**
   Superior performance is designed into the MIGHTY M3. Smooth load chain movement is facilitated by having a chain guide mechanism in the flanged load sheave and guide roller.

8. **Highly Accurate and Durable Gears**
   Years of research and development have enabled KITO to produce compact, highly efficient and durable gears.

9. **Stopper Prevents Excessive Lowering**
   KITO’s carefully engineered stopper assembly not only prevents a load from being lowered too far, but even keeps the chain from exiting the mechanism. Increased pull force signals the operator the load has been lowered to the maximum extent.

10. **Highly strong Load Chain**
    Load chains, the component comprising the heart of the chain hoist, are made of an exclusively developed, heat treated special steel alloy. Carefully selected special steel is entirely processed at KITO’s fully automated production facilities under the most stringent quality control. Thus, all of the KITO chains are uniform in high breaking stress of 1000N/mm² (100kgf/mm²). They have excellent quality including toughness and resistance to wear and corrosion.
Gear Case and Hand Wheel Cover are Resistant to External Shocks

Both sides of the hoist are covered with a thick steel gear case and reinforced wheel cover. Manufactured using state-of-the-art technology, these critical components are ideally shaped and highly rigid to maintain bearing alignment and withstand external shock.

Double Enclosures Protect Against Rainwater and Dust Intrusion

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As KITO chains are heat-treated, splicing of the load chain is prohibited. If a longer lifting height is required, please specify the required lifting height when ordering.

Any lift of chain is available upon request.

Other capacities are available upon request.

Operating environmental conditions

This product cannot be used in water.

Use the hoist at under 100% RH.

With regard to the environmental load substances, 6 substances defined in the RoHS directives are not contained in this product.

Standard materials are used. Special materials such as sparkless materials and asbestos are not used.
Operating environmental conditions

Operating temperature range: -20ºC to +60ºC
TSG/TSP: -20ºC to +60ºC

Operating humidity range: Use the hoist at under 100%RH.
This product cannot be used in water.

Materials:
Standard materials are used. Special materials such as sparkless materials and asbestos are not used.
With regard to the environmental load substances, 6 substances defined in the RoHS directives are not contained in this product.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Rated Load (W.L.L.) (t)</th>
<th>Product Code</th>
<th>Std.Lift (m)</th>
<th>Hand Chain Folded Length (m)</th>
<th>Chain Pull to Lift Full Load (N[kgf])</th>
<th>Chain O’hauled to Lift Load One Meter (m)</th>
<th>Load Chain Dia.xChain Fall (mm)</th>
<th>Test Load (t)</th>
<th>Mass [Net weight] (kg)</th>
<th>Shipping Mass [weight] approx. (kg)</th>
<th>Mass [weight] in kg for Additional One Meter of Lift (kg)</th>
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<td>640</td>
<td>790</td>
<td>29.7</td>
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</table>

*Other capacities are available upon request.
*Any lift of chain is available upon request.
*As KITO chains are heat-treated, splicing of the load chain is prohibited.
*When ordering, specify the lifting height.
*Chain falls vary depending on the capacity of each hoist. *does not accord with EN13157

DIMENSIONS (mm)

| Rated Load (W.L.L.) (t) | Headroom :C | a   | b   | d   | e   | f   | g   | s   | t   | u   | v   | w   | x   |
|------------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.5                    | 285          | 158 | 161 | 2500| 69  | 99  | 27  | 35.5| 12.1| 17  | 77  | 35  | 89  |
| 1                      | 295          | 162 | 161 | 2500| 71  | 99  | 29  | 42.5| 16  | 21.8| 93  | 41  | 101 |
| 1.5                    | 351          | 171 | 182 | 2500| 78  | 112 | 34  | 47.5| 19.5| 26.5| 106 | 47  | 119 |
| 2                      | 375          | 182 | 202 | 3000| 87  | 125 | 36  | 50  | 21.8| 30  | 116 | 49  | 124 |
| 2.5                    | 421          | 192 | 233 | 3000| 91  | 143 | 40  | 53  | 24.3| 33.5| 126 | 53  | 136 |
| 3                      | 421          | 192 | 233 | 3000| 91  | 143 | 40  | 53  | 24.3| 33.5| 126 | 53  | 136 |
| 5                      | 600          | 192 | 282 | 3600| 91  | 194 | 46.5| 63  | 34.5| 47.5| 161 | 67.5| 172 |
| 7.5                    | 770          | 192 | 373 | 4200| 91  | 253 | 72.5| 85  | 47.5| 63  | 231 | 97.5| 275 |
| 10                     | 760          | 192 | 438 | 4200| 111 | 308 | 72.5| 85  | 47.5| 63  | 231 | 97.5| 295 |
| 15                     | 1020         | 268 | 492 | 4700| 119 | 337 | 80  | 100 | 60  | 80  | 275 | 110 | 320 |
| 20                     | 1180         | 274 | 476 | 4800| 187 | 373 | 81  | 110 | 67  | 90  | 301 | 125 | 351 |
| 30                     | 1300         | 404 | 746 | 4800| 202 | 373 | 103 | 125 | 85  | 112 | 367 | 143 | 400 |
| 40                     | 1480         | 502 | 760 | 4900| 251 | 380 | 96  | 145 | 133 | 142 | 412 | 182.5| 445 |
| 50                     | 1560         | 544 | 796 | 4900| 272 | 398 | 100 | 165 | 135 | 155 | 447.5| 202.5| 467 |
**TROLLEY-CONNECTED HOIST**

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Rated Load [W.L.(t)]</th>
<th>Product Code</th>
<th>Std.Lift (m)</th>
<th>Hand Chain Folded Length (m)</th>
<th>Chain Pull to Traverse Full Load (N) [kgf]</th>
<th>Load Chain Dia. x Chain Fall (mm)</th>
<th>Test Load (t)</th>
<th>Mass [Net Weight] (kg)</th>
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<td>225 [23]</td>
<td>9.0x3</td>
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<td>294x2 [30x2]*</td>
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<td>25.00</td>
<td>509</td>
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</table>

- CBSG and CBSP mean the CB Series connected with the TS Series geared trolley and plain trolley respectively.
- Figures in parentheses show the data for the plain trolley. Other data are the same for both the plain and geared trolleys.
- The data for the standard I-beam width and the minimum radius for a curve is the same data as that shown on page 9.
- 15 ton-and-over capacity trolleys have 6-wheel construction.
- 10 ton-and-over capacity versions are available by request.

### DIMENSIONS (mm)

| Rated Load [W.L.(t)] | Head room :C | a [Max] | a’ [W30] | b | b’ | d | e | f | g | h | i | j | k | m | n | o | p | q | r | t | u |
|----------------------|--------------|---------|----------|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5                  | 305(295)     | 275(173)| 380(280)| 300(200)| 236(182)| 272(29)| 250(164) | 230(27)| 168(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 1                    | 305(295)     | 275(173)| 380(280)| 300(200)| 236(182)| 272(29)| 250(164) | 230(27)| 168(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 1.5                  | 355(320)     | 365(270)| 450(350)| 400(250)| 320(180)| 375(25)| 360(200)| 330(32)| 242(32)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 2                    | 435(390)     | 405(300)| 500(400)| 450(300)| 400(180)| 450(25)| 400(200)| 370(38)| 237(38)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 2.5                  | 560(500)     | 535(430)| 650(550)| 600(450)| 500(200)| 550(25)| 500(200)| 470(47)| 335(47)| 237(38)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 3                    | 660(600)     | 650(550)| 780(650)| 750(620)| 650(150)| 700(25)| 750(200)| 650(65)| 500(65)| 330(65)| 237(38)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 3.5                  | 228(203)     | 300(220)| 375(300)| 350(220)| 325(150)| 375(25)| 350(200)| 330(33)| 242(33)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |
| 4                    | 228(203)     | 300(220)| 375(300)| 350(220)| 325(150)| 375(25)| 350(200)| 330(33)| 242(33)| 148(22)| 96(12)| 56(7)| 68(9)| 40(5)| 25(3)| 10(1)| 10(1)| 70| 80(10)| 80(11)| 80(12) |

- **a’** and **a** are for **GEARED TYPE**.
- **For the 7.5 ton-and-over capacity hoists, **a** shows the data for the hook suspension type. **N** shows the distance between the outside wheel centers.
- **Does not accord with EN13157.**

**GEARED TYPE**

**PLAIN TYPE**

Top Hook mounted on Suspender
KITO UNIVERSAL TROLLEYS-TS SERIES

SMOOTH AND RELIABLE OPERATION

Bumpers & Buffers
KITO’s TS Series have the bumpers with the rubber buffers as standard. The bumper is intended for an anti-drop. With the buffer on the bumper, they protect the trolley against damage arising from a collision with the beam stopper or between the multiple trolleys on the beam.

Accommodates a Wide Selection of Beam Widths
Trolleys are adjustable for various widths of both tapered and flat flanges by changing the adjustable spacers. They can also fit on beams of up to 305mm-flange width by replacing the suspension shaft, spacers and associated parts.

Light and Compact Models
KITO’s years of trolley design experience make it possible to produce these light and compact trolleys.

Improved Track Wheel Durability
KITO’s unique press process and heat treatment ensure high track wheel strength, leading to improved reliability and performance.

Specially Contoured Wheels Provide Security
This trolley maintains secure contact between wheels and flange surfaces even under highly variable load weights thanks to the carefully designed contours of the steel trolley wheels.

Pivot Mounted Side Plates Ensure Even Weight Distribution
Both side plates are pivot mounted so that trolleys can move freely at adequate angles to the flange surface in spite of welded joints that might otherwise cause uneven weight distribution on the four wheels.

Ball Bearing Wheels Offer High Performance
High-grade, zero-lubrication sealed ball bearings are used on all wheels for smooth and reliable operation.

SPECIFICATIONS

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<th>Rated Load (W.L.L)(t)</th>
<th>Code</th>
<th>Plain Trolley</th>
<th>Geared Trolley</th>
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<th>Min. Radius for Curve (mm)</th>
<th>Mass (Net Weight) (kg)</th>
<th>Hand Chain Folded Length (m)</th>
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Notes:
- Figures in parentheses refer to TSG005.
- W30 means 305 mm flange width adjustability as option.
- For 7.5 ton and over capacity models, the trolley wheels for the tapered flanges are standard. Wheels for the flat flanges are available as an option and should be specified in advance.
- For single I-beam applications only: 0.5 ton plain trolleys can be used on 57 mm and less width beams; 1 ton plain and geared trolleys can be used on 73 mm and less width beams; 2.5 ton and 3 ton plain and geared trolleys can be used on 89 mm and less width beams.

- The shape of the suspender for the 3t capacity is similar to the shape of the suspender for the 5t capacity.
Overload Protection Device (OLL)
The hoist overload limiter protects the hoist mechanism from damage due to overloading. When an overload is applied to the hoist, the overload limiter actuates to stop lifting.

Hoist with Extended Hand Wheel Shaft
When worksite conditions necessitate operating a hoist at a distance, the extended hand wheel shaft provides added convenience. The standard length of the extended shaft is 1m.

Spark Resistant Hoist
KITO produces special spark-resistant chain hoists for use on worksites where spark protection is required. Please consult with your nearest KITO distributor about the specific needs of your worksite.

Chain Container
In situations where the load chain on the no-load side is a hindrance when the load is raised, the load chain can be kept in a chain container attached to the chain hoist. Both steel and canvas chain containers are available upon request.

Rail Clamp Device
A rail clamp prevents a manually-operated trolley from traveling by itself. Activated by manipulating a hand chain, the trolley rail clamp is convenient when fixing a trolley at a pre-set position, such as in a rolling and pitching ship or in a sloped tunnel.

Large Capacity Chain Hoist
Chain hoists with lifting capacities up to 100 tons are available upon request.
Overload Protection Device (OLL)

The hoist overload limiter protects the hoist mechanism from damage due to overloading. When an overload is applied to the hoist, the overload limiter actuates to stop lifting.

Hoist with Extended Hand Wheel Shaft

When worksite conditions necessitate operating a hoist at a distance, the extended hand wheel shaft provides added convenience. The standard length of the extended shaft is 1m.

Trolley for Small Radius Curved Beams

Small radius curve trolley operation is available upon request by removal of the protective lug. Please consult with your nearest KITO distributor for details.

Spark Resistant Hoist

KITO produces special spark-resistant chain hoists for use on worksites where spark protection is required. Please consult with your nearest KITO distributor about the specific needs of your worksite.

Chain Container

In situations where the load chain on the no-load side is a hindrance when the load is raised, the load chain can be kept in a chain container attached to the chain hoist. Both steel and canvas chain containers are available upon request.

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Large Capacity Chain Hoist

Chain hoists with lifting capacities up to 100 tons are available upon request.

Corrosion Resistant ND Chain

We recommend chain hoists with ND (Nickel Diffused) chain when outstanding corrosion resistance is required. These chains are especially suited for use at work sites under the strong influences of rain and seawater, corrosive vapors and chemicals, etc. Because ND chains are manufactured by applying a unique osmotic-diffusion treatment to special metals using KITO’s exclusive technology, they are extremely resistant to corrosion and are immune to peeling of the nickel-plating. Please consult with your nearest KITO distributor prior to purchase to ensure the correct ND chain selection as the corrosion resistance efficiency varies according to the environmental chemicals at the application worksite.

Manual Chain Hoist CB-ATEX

Ex-protected Ex II 2G c IIB T4
Ex II 2D c 135 °C

> Allows the operation in potentially explosive atmosphere
Conforms to ATEX Directive 94/9/EC

> Increased safety for temperature limit range
Maximum equipment temperature 135 °C

> Safe operation in potentially explosive atmosphere
Protected against explosive gases, vapors and dust

High Speed CB

Speedy lifting and lowering!
Automatic high & low speed change!

2.5 to 50 t

Stress-free 7:1 Lifting Speed!
High Speed CB is just released!

Succeeded in no-load high-speed operation
With originally developed automatic high-low-speed clutch technology, KITO has realized no-load seven times lifting speed.
This gear shows outstanding durability in continuous and long-term use though it is small size.
Operability in a loaded condition is as high as the standard specifications.
Relieved from past stress, a worker can smoothly prepare for his field work.

Unique Industry Innovation!

Equipped with automatic speed change gear in no-load.
The functions and performance of the products mentioned in the catalog have been designed based on the related regulations and standards.

If they are used for other than their intended purposes such as being integrated into your equipment, we will not take any responsibility for accidents attributable to their unintended usages as well as guarantee their performance and functions. Never remodel our products.

When you want to use our products for special purposes, consult us in advance.

When you want to export our products, consult us in advance. There are different standards and regulations from one destination to another.

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The specifications in this catalog are partly subject to change without prior notice.

KITO CORPORATION

SHINJUKU NS Bldg. 9F, 2-4-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0809 JAPAN

TEL: +81-3-5908-0180  FAX: +81-3-5908-0189

E-mail: overseas@kito.co.jp

www.kito.co.jp