* Electric chain hoists (1-speed type)
* Electric chain hoists (2-speed type)
* Electric trolleys
* Manual operated chain hoists
* Manual operated trolleys (geared & plain)

* Chain lever hoists
* Cranes (top running type & suspension type)
* Jib cranes (semicircular & circular swiveling type)
* Webbing sling (polyester)

...and more...for specific requirements
The NITCHI-MATIC Model MH-5 Series is a line of premium quality electric chain hoists that are designed especially to fulfill the severe requirements of industry. MH-5 Series for extra efficiency, dependability, durability and safety.

NITCHI-MATIC ELECTRIC CHAIN HOIST WITH

Motors of Model MHC-5 single-phase hoist are extremely long wearing electromagnets brake linings.

STANDARD SPECIFICATIONS: MHC-5 Electric Chain Hoist (Single-voltage)

- High performance capacitor-start induction motors of Model MH-5 (1-Speed) have 30 non-asbestos brake linings.
- Extremely long service braking power. An extremely long service life has been achieved with the use of non-asbestos brake linings.

- Ultra-Tough Load Chains: The NITCHI case-hardened load chains are made from special alloy steel, and are given super-tough carbonized hard surfaces that resist erosion several times longer than conventional through hardened load chains. The soft core section gives the load chain the elasticity which is essential for material lifting equipment. Every link of load chain is tested, and a record of each chain production lot is kept on record at our factory.

- Forged Steel Hooks: Both the top and bottom hooks on all capacities swivel to all directions and are made of drop-forged steel that is heat-treated for greater strength. Every bottom hook is equipped with a thrust bearing for smooth rotation and has a safety latch as a standard equipment.

- Oil Bath Lubrication: As in all types high quality machine the NITCHI-MATIC Series uses the oil bath lubrication system. The continuous bath of oil lubricates the reduction gear system and also acts as a coolant for the mechanical brake.

- Antiphase Protection Relays: This relay prevents damage to the hoist caused by misconnections (negative phase connections) of the power source wires.

- First Stage Helical Gearing: The first stage helical gearing provides a dependable and longer quieter life by reducing gear tooth impact and vibration to a minimum. The reduction gears are exclusively designed for extra durability and are made of special alloy steel that is expertly machined for positive engagement and precisely heat-treated for maximum strength.

- MECHANICAL BRAKE: The very reliable mechanical brake works in cooperation with the electromagnetic brake and holds suspended loads at any point.

- PUSH-BUTTON SWITCH: The strong light weight push-button switch of NITCHI-MATIC is rainproof and responds immediately at a touch of the button.

- Easy Servicing: The robust pressed steel design simplifies the maintenance and the replacement of components.

- Usefulness Manual: Each NITCHI-MATIC hoist is supplied with a comprehensive handbook that provides sufficient instructions and information on installation, operation and maintenance.

- Optional Equipment: Overload Protection: This is a special device for additional safety to operators, hoist and load. When a load that is greater than the setting of the overload protection is applied, the hoist will stop automatically and prevent the load from being hoisted.

- NIN CASE HARDENED CHAIN: This is a series of nickel case hardened chains with a special non-electrolytic nickel plating that is fused into the material of the chains. This special plating does not effect the original features of the chains and will not peel off conventional surface plate chains. The NIN case hardened chains have outstanding characteristics in resisting rust and corrosion caused by rain, seawater, steam and chemicals.

- Wide Selection: NITCHI-MATIC is a series of electric chain hoists with standard capacities ranging from 0.5 ton to 50 ton that are available in a wide variety of variations for handling nearly all material handling requirements. The industrial type 3-phase power source version can be used independently as a suspended type electric chain hoist or as an electric chain hoist directly coupled to a manual operated trolley or a motorized trolley. The lifting speed of the NITCHI-MATIC can be selected between single-speed and 2-speed whichever most adequately fulfills your requirements for increasing productivity. Also, a single phase power source version is available for light materials handling operations and home use where 3-phase power sources are not readily available.

- Increased Durability: Durability is one of the main features we are able to boast about. The NITCHI-MATIC MH-5 Series is designed and made to the Grade M4 and M5 durability standards of the Japanese Industrial Standard. (In accordance with JIS B8815 - 1994)

- High Duty Rating: A high duty rating is essential for fulfilling the severe work cycles that are required for production in industry. The 40% ED rating of Model MH-5 (1-Speed) is sufficient for almost all heavy duty industrial applications.

- Dual Braking System: Two completely independent brakes not only reduce the possibility of brake failure, but also increase the breaking surface and contribute to the dissipation of heat generated by repeated braking.

- 24-Volt Control: The low 24-volt control protects the operator from harmful electrical shocks.

- Steel Construction: The main frame consists of two rugged steel side plates that will provide maximum protection against dynamic loads. Castings that are able to crack or break have not been employed in the main frame.

- Heavy Duty Motor: The special heavy duty high performance motors of Model MH-5 (1-Speed) have 30 non-asbestos brake linings.

- ELECTRO-MAGNETIC BRAKE: This powerful brake system responds instantly and supplies dependable positive braking power. An extremely long service life has been achieved with the use of non-asbestos brake linings.

- Over-Hosting & Over-Lowering Protection: Possibilities of damage to the NITCHI-MATIC caused by over-hosting and over-lowering are eliminated with the limit switch.

- Case hardened Link Chain: Standard Case hardened Chain
NITCHI-MATIC ELECTRIC CHAIN HOIST

MODEL MH-5

The single load chain fall design of 3 ton and the exceptionally low headrooms of Model MH-5 are the results of the streamlined, robust steel constructions and well balanced designs. Model MH-5 1-speed hoist is available in a wide range of standard capacities for your choice,... available from light 0.5 ton loads to extremely heavy 50 ton loads. Please refer to succeeding page for specifications of 10 ton and larger capacities.

STANDARD SPECIFICATIONS : MH-5 Electric Chain Hoist

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load (ton)</th>
<th>Lifting Speed/min</th>
<th>Hoist Motor 3-phase</th>
<th>Load Chain</th>
<th>Test Load (ton)</th>
<th>Minimum Headroom (Max mm)</th>
<th>Net Weight (approx. kg)</th>
<th>Grade</th>
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<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>L/P</th>
<th>H/Q</th>
<th>S(mm)</th>
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<td>127</td>
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<td>880</td>
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<td>960</td>
<td>390</td>
<td>3.6</td>
</tr>
</tbody>
</table>

NOTES:
1. Only the standard lift heights are enumerated above. Please apply for extra long lifts.
2. Please contact our sales department about special headroom or chain arrangements.
3. Safety safety features such as load limiters and hooks are not included in this specification.
4. A chain bucket is supplied with each hoist as standard attachment.

In addition to hoisting and lowering, Model EMT-MH-5 (1-speed hoist with 1-speed trolley) can transport heavy loads swiftly with great efficiency and complete safety. 0.5 ton to 7.5 ton trolleys can be adjusted to fit the different beam sizes listed in the table by simple relocation of the spacing washers to the inside or to the outside of the frame.

The drop-forged steel trolley wheels are heat-treated and have precision bearings to provide smooth and easy travel.

STANDARD SPECIFICATIONS : EMT-MH-5 Electric Chain Hoist with Electric Trolley

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load (ton)</th>
<th>Lifting Speed/min</th>
<th>Hoist Motor 3-phase</th>
<th>Load Chain</th>
<th>Test Load (ton)</th>
<th>Maximum Headroom (Max mm)</th>
<th>Net Weight (approx. kg)</th>
<th>Grade</th>
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<td>11.2</td>
<td>6.25</td>
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<td>0.4</td>
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<table>
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<tr>
<th>Item No.</th>
<th>Rated Load (ton)</th>
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<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>L/P</th>
<th>H/Q</th>
<th>S(mm)</th>
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<tr>
<td>MHE5S05</td>
<td>0.5</td>
<td>205</td>
<td>285</td>
<td>152</td>
<td>106</td>
<td>20</td>
<td>690</td>
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<td>267</td>
<td>93</td>
<td>960</td>
<td>390</td>
<td>3.6</td>
</tr>
</tbody>
</table>

NOTES:
1. The values in the | I | j section for trolley with load speed and special speed.
2. Specifications and details of specifications are subject to change with our continuous improvement in the design and manufacture without notice.
3. A checkmark with each chain must be made at the bottom of the chain.
NITCHI-MATIC ELECTRIC CHAIN HOIST WITH GEARED/PARTIAL TROLLEYS

MODEL MHT-5

The NITCHI geared and plain trolleys in this pamphlet are designed exclusively for the NITCHI-MATIC and are ideal for efficient and safe transportation of loads. 0.5 ton to 7.5 ton capacities geared and plain trolleys can be adjusted to fit the different beam sizes listed in the table simply by relocating the spacing washers to the inside or to the outside of the frame. The ingenious direct-coupling connection makes the headroom remarkably short and always faces the hoist in the same direction.

STANDARD SPECIFICATIONS : MHT-5 Two-Speed Electric Chain Hoist (Single-voltage)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load</th>
<th>Lift (m)</th>
<th>Max. Speed (m/min)</th>
<th>Motor 3-phase</th>
<th>Load Chain (ton)</th>
<th>Test Load (ton)</th>
<th>Two-Speed Ratio</th>
<th>Maximum Radius (m)</th>
<th>Minimum Headroom (m)</th>
<th>Major Dimensions (approx.) (mm)</th>
</tr>
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<td>2.5</td>
<td>100</td>
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<td>635</td>
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<tr>
<td>MHT5020</td>
<td>1</td>
<td>2.5</td>
<td>6.7</td>
<td>5.2</td>
<td>3.5</td>
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<td>100</td>
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<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>1000</td>
</tr>
<tr>
<td>MHT5030</td>
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<td>1.0</td>
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<td>5.2</td>
<td>3.5</td>
<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>1270</td>
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</tbody>
</table>

MHT-5 2-speed electric chain hoist has a 4 to 1, fast to slow lifting speed ratio. Depressing the push button switch is all that is needed to easily handle material with the slow-speed or fast-speed. The slow-speed is particularly effective for accurately spotting a load without having to do the harmful inching operation. Like the MHT-5 single-speed electric chain hoists, the MHT-5 2-speed electric chain hoists are also available directly coupled to manual trolleys or to motorized trolleys. 2-speed motorized trolleys with 3 to 1, fast to slow traversing speed ratio are also available. You can obtain maximal working efficiency with the ultimate combination of a 2-speed electric chain hoist with 2-speed motorized trolley.

STANDARD SPECIFICATIONS : MHT-5 Two-Speed Electric Chain Hoist (Single-voltage)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load</th>
<th>Lift (m)</th>
<th>Max. Speed (m/min)</th>
<th>Motor 3-phase</th>
<th>Load Chain (ton)</th>
<th>Test Load (ton)</th>
<th>Two-Speed Ratio</th>
<th>Maximum Radius (m)</th>
<th>Minimum Headroom (m)</th>
<th>Major Dimensions (approx.) (mm)</th>
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</thead>
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<tr>
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<td>3.5</td>
<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>635</td>
</tr>
<tr>
<td>MHT5020</td>
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<td>2.5</td>
<td>6.7</td>
<td>5.2</td>
<td>3.5</td>
<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>820</td>
</tr>
<tr>
<td>MHT5025</td>
<td>2</td>
<td>1.0</td>
<td>6.7</td>
<td>5.2</td>
<td>3.5</td>
<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>1000</td>
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<tr>
<td>MHT5030</td>
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<td>6.7</td>
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<td>3.5</td>
<td>1</td>
<td>2.5</td>
<td>100</td>
<td>125</td>
<td>1270</td>
</tr>
</tbody>
</table>

N.B. Depress the push button switch as the load is approximately 1 m above the lower limit.

N.B. The dimensions P and Q marked * above vary according to different lifts.

STANDARD SPECIFICATIONS : MHT-5 Two-Speed Electric Chain Hoist (Double-voltage)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load</th>
<th>Lift (m)</th>
<th>Max. Speed (m/min)</th>
<th>Motor 3-phase</th>
<th>Load Chain (ton)</th>
<th>Test Load (ton)</th>
<th>Two-Speed Ratio</th>
<th>Maximum Radius (m)</th>
<th>Minimum Headroom (m)</th>
<th>Major Dimensions (approx.) (mm)</th>
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<td>100</td>
<td>125</td>
<td>1270</td>
</tr>
</tbody>
</table>

N.B. Depress the push button switch as the load is approximately 1 m above the lower limit.

N.B. The dimensions P and Q marked * above vary according to different lifts.
The extremely high reliability of the over 10 ton and up to 50 ton MH-5 electric chain hoists are the result of many years of experience and the use of up to the minute technology. The excellently balanced large capacity MH-5 electric chain hoists are complex structures using the dependable MH-5 3 ton electric chain hoist drive unit and the most efficient arrangements of load chains and chain wheels.

The ultramodern design of MH-5 electric chain hoists gives them incredibly short draw-down dimensions and ultra-lightweights. Large capacity MH-5 electric chain hoists over 30 ton have motors with high outputs for increased power for handling the extra burden of heavy loads. A large capacity MH-5 electric chain hoist directly coupled to a motorized trolley can precisely transport the load with the traverse movement of the motorized trolley. Large capacity manual operated trolleys are also available — please consult your nearest NITCHI dealer or distributor for further information.

**STANDARD SPECIFICATIONS : EMT-MH-5 Electric Chain Hoist with Electric Trolley**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load (ton)</th>
<th>Item No.</th>
<th>Rated Load (ton)</th>
<th>Item No.</th>
<th>Rated Load (ton)</th>
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</thead>
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<td>15</td>
<td>MH200</td>
<td>20</td>
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<td>MH250</td>
<td>20</td>
<td>MH300</td>
<td>20</td>
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</tbody>
</table>

**Rated Load (ton)**

### M4 Standard Attachments

- 1 chain collecting bucket is supplied with each hoist as standard attachment.

1. **Model MH-5 (Large Capacities)**

   - **MH5100W**: 30 tons
   - **MH5150**: 20 tons
   - **MH5200**: 15 tons
   - **MH5250**: 10 tons
   - **MH5300**: 6.7 tons
   - **MH5400**: 4 tons
   - **MH5500**: 2.6 tons

2. **Load Chain**

   - **Load Chain**: 30 tons
   - **Load Chain**: 20 tons
   - **Load Chain**: 15 tons
   - **Load Chain**: 10 tons
   - **Load Chain**: 6.7 tons
   - **Load Chain**: 4 tons
   - **Load Chain**: 2.6 tons

3. **Load Capacity**

   - **Load Capacity**: 30 tons
   - **Load Capacity**: 20 tons
   - **Load Capacity**: 15 tons
   - **Load Capacity**: 10 tons
   - **Load Capacity**: 6.7 tons
   - **Load Capacity**: 4 tons
   - **Load Capacity**: 2.6 tons

4. **Rated Load (ton)**

   - **Rated Load (ton)**: 30 tons
   - **Rated Load (ton)**: 20 tons
   - **Rated Load (ton)**: 15 tons
   - **Rated Load (ton)**: 10 tons
   - **Rated Load (ton)**: 6.7 tons
   - **Rated Load (ton)**: 4 tons
   - **Rated Load (ton)**: 2.6 tons

5. **Headroom**

   - **Headroom**: 4.3 m
   - **Headroom**: 5.75 m
   - **Headroom**: 7.25 m

6. **Minimum Headroom (Max.)**: 4.3 m

7. **Net Weight (approx.)**: 1.5 m

8. **Rated Load (ton)**

   - **Rated Load (ton)**: 4.3 m
   - **Rated Load (ton)**: 5.75 m
   - **Rated Load (ton)**: 7.25 m

9. **Major Dimensions (approx.) (mm)**

   - **Major Dimensions (approx.) (mm)**: 7.2 m
   - **Major Dimensions (approx.) (mm)**: 10.0 m
   - **Major Dimensions (approx.) (mm)**: 10.6 m

10. **Output (kW)**

    - **Output (kW)**: 12.5 kW
    - **Output (kW)**: 12.5 kW
    - **Output (kW)**: 14.0 kW

11. **Net Weight (approx.)**: 1.5 m

12. **Rated Load (ton)**

    - **Rated Load (ton)**: 4.3 m
    - **Rated Load (ton)**: 5.75 m
    - **Rated Load (ton)**: 7.25 m
NITCHI-MATIC ELECTRIC CHAIN HOIST WITH
SINGLE-PHASE MOTORS

MODEL MHC-5

The specially developed high performance capacitor-start induction motors of Model MHC-5 single-phase hoist are extremely long wearing and will enable reliable handling of heavy loads on household power sources. When used together with a Nitchi trolley, it will be possible to use Model MHC-5 on a large variety of applications for the efficient and safe transportation of loads.

SPECIAL VARIATIONS

The following are only a few of the special variations of MH-5 Series electric chain hoists that are available at moderate extra charges. Please contact your nearest NITCHI dealer or distributor without hesitation for further information on special variations:

MH-5 CE Version

The CE Version is a special variation made to suit the European market, which fulfills the requirements of the EN regulations. The CE Version has a friction type over load protection, an emergency stop control, and other modifications as standard equipment, which are in accordance with the EN regulations. The use of an extra powerful electro-magnetic brake makes it possible to remove the mechanical brake, and replace it with a friction type over load protection device. The trolleys for the CE Version are applicable to a wide variety of beam widths ranging up to extra wide, and are equipped with anti-drop plates.

High Lift Type MHC-5

These are electric chain hoists with hook bucket assemblies for long lengths of load chain. The connecting methods of high lift type MHC-5 electric chain hoists with trolleys are different from the standard connecting method used on non-long lift type MH-5 electric chain hoists with trolleys. Also, the chain bucket assemblies of hook suspended type long lift type MH-5 electric chain hoists require support chains to be connected to the structure supporting the electric chain hoist. The MH-5 electric chain hoists are classified to be “long lift type” electric chain hoists when the load-lifting heights of the right table are exceeded.

MH-5 WITH LONG DUTY TIME RATING

MH-5 Electric chain hoists with long duty time ratings or MH-5 electric chain hoists for continuous operations are also available.

MOTORIZED TROLLEYS WITH SLOW TRAVERGING SPEED

The traversing speed of the motorized trolleys can be reduced to 1/2, 1/4 or 1/8 of the standard traversing speed.

STANDARD SPECIFICATIONS : MHC-5 Electric Chain Hoist (Single-voltage)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load</th>
<th>Lift (m)</th>
<th>Hoisting Speed (m/min)</th>
<th>Motor 1-phase</th>
<th>Load/Chain</th>
<th>Test Load (kW)</th>
<th>Minimum Deadroom (Max.)</th>
<th>Net Weight (kg)</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHC5005</td>
<td>0.5</td>
<td>0.62</td>
<td>15 25 7.1</td>
<td>0.625</td>
<td>550</td>
<td>50</td>
<td>50</td>
<td>W5</td>
<td></td>
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<td>MHC5005</td>
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<td>2.7</td>
<td>15 25 7.1</td>
<td>1.25</td>
<td>500</td>
<td>50</td>
<td>50</td>
<td>W4</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Rated Load</th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H/F</th>
<th>W/O</th>
<th>S(m)</th>
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</thead>
<tbody>
<tr>
<td>MHC5005</td>
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<td>305</td>
<td>285</td>
<td>152</td>
<td>106</td>
<td>20</td>
<td>690</td>
<td>220</td>
<td>3.6</td>
</tr>
<tr>
<td>MHC5005</td>
<td>1</td>
<td>305</td>
<td>285</td>
<td>152</td>
<td>106</td>
<td>25</td>
<td>690</td>
<td>220</td>
<td>3.6</td>
</tr>
</tbody>
</table>

Diagrammatic only

N.B. The dimensions P and Q marked *above vary according to different lifts.

N.B. The design, materials and specifications are subject to change for improvements without notice.