



## Hoists General Catalog

**⚠ caution**

Please read "Product Manual" ahead of the use to use the product correctly and safely.  
 Though our product is manufactured under a strict quality control, Please set up the safety device before application to equipment to which the occurrence of a serious accident and the loss is forecast due to the breakdown of product etc.

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AVAILABLE FROM



**MITSUBISHI ELECTRIC  
FA INDUSTRIAL PRODUCTS CORPORATION**

By the utilization of state-of-the-art technology,  
we realize highly developed safety and improved  
operation of our loading system.



## ■ Hoist Type (Shapes)

Monorail Type	Low-head Type	Double rail Type
<b>R-2-LM3</b> 	<b>S-2-LD2</b> 	<b>S-2.8-LR3 A</b> 
Suspended Type	Frame mounted Type	
<b>R-2-LK3</b> 	<b>S-2.8-HS3</b> 	

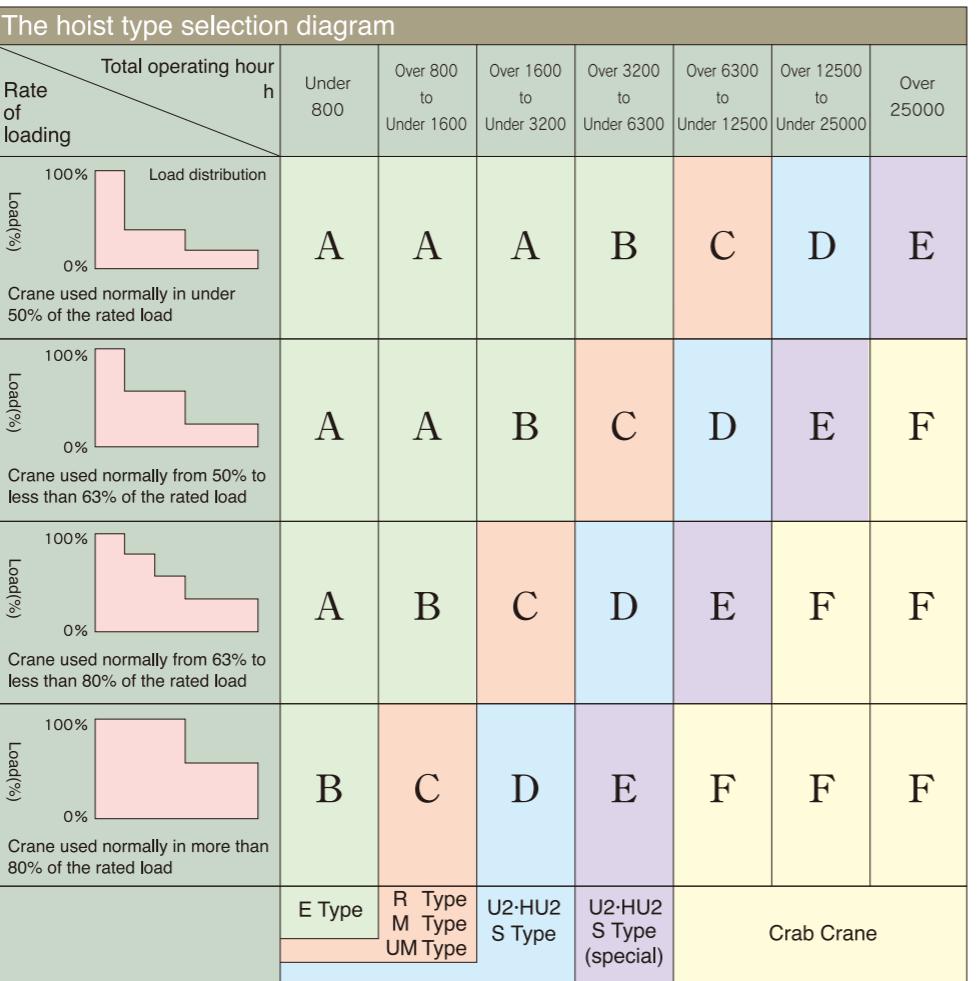
## ■ Introduction of Products

Hoists
<b>UM Type</b> <span style="color:red;">New</span> <span style="color:purple;">(5t・10t)</span>  For medium frequency use UM Type series has Mitsubishi original inverter specially developed for hoist. Overload prevention function, Electronic limit switches, Light load high speed operation function, Operation history function are standard. UM Type series has wide box type rail and flat wheels, convenient for replacement from other brands.
<b>S Type</b> <span style="color:blue;">(1/2-60t)</span>  For high frequency use S type series is heavy-duty type hoists for applications involving high frequency operations. Its hoisting speed and the duty class is the highest available. For more safety, a microprocessor control circuit which automatically prevents overloading is installed.
<b>U2,HU2 Type</b> <span style="color:blue;">(1/2-60t)</span>  Mitsubishi original inverter specially developed for hoist has realized the miniaturization and versatility. Functions, which detect the hook position and change to higher hoisting speed when zero load is detected, offer high level of operation efficiency.
<b>M Type</b> <span style="color:purple;">(5t・10t)</span>  For medium frequency use M Type series has been developed based on the next generation concept. It has been designed for optimizing price and performance.
<b>UR Type</b> <span style="color:orange;">(1-2.8(3)t)</span>  UR Type series is produced by utilizing the power electronics technology accumulated by MITSUBISHI ELECTRIC, and has new variable speed type. It is popular for excellent operation.
Crane Related Equipment
<b>Saddle for Crane</b> (~20t×27m)  <ST-D・MT>Top-Running Crane Saddle and <SP-D・MP>Suspension Crane Saddle are available. A traveling device that adopts Channel frame makes the installation to the main beam easy. (ST-D, SP-D)
<b>Gear Motor for Crane Saddle(SGM)</b> <span style="color:orange;">(0.4kw-3.7kw)</span>  <SGM-A> is easy handling gear motor for crane saddle. There are two speed types of output axis rotation. (Low speed and High speed) It allows customers to choose the most suitable type of gear motor.
Other Related Equipments
 <TIB> Inverter control box for saddle motor  <LCV-B> Over load detection device (Electric)  <LCM> Over load detection device (Mechanical) ※ A LCM is sold with a hoist. A LCM is not sold as single item.

## Table of Contents

### THE MITSUBISHI ELECTRIC HOIST APPLICATIONS AND SELECTION DIAGRAM

The diagram enables you to select the most suitable hoist type for each customer's condition:



① Signs such as A or B grade stand for the application group of the crane structure standard.(Japan Ministry of Labor)

② C grade applied the hoist of S, U2, HU2 series lift more than 12m.

③ The licence of Crab type production is necessary about the large-capacity hoist more than 30t. In addition, please specify the application group.

#### ■ Percentage of duty cycle and number of starts per Hr.

Type	Percentage of duty cycle and number of starts per Hr.				
Intermittent duty	R UR	S	U2 HU2	M UM	
Lifting	25	40	40	40	
Traversing	250	400	400	240	

Starting frequencies represent the number of starts during one hour at the busiest rate of operation.  
Special designs are required for applications involving load/time ratios in excess of 40% or starting number frequencies in excess of 400/hour. Consult your dealer.

Total time motor is under power during 1 hour of operation at busiest rate(minutes)  
 $ED(\%) = \frac{60}{\text{Total time}} \times 100$

\*In the case of dual speed, it is assumed that the ratio between low speed and high speed of the load time is 1:2, and the ratio between low speed and high speed of the maximum number of starts per Hr is 2:1.

\*Continuous operating time limit at maximum allowable frequency of use is below

Load condition	Light (50% of the rated load)	Medium (63% of the rated load)	Heavy (80% of the rated load)
Continuous operating time	Less than 8 hours	Less than 4 hours	Less than 2 hours

\*Please contact us if it exceeds above continuous operating time.

## Basic term of the hoist (crane)

There are many technical terms in this catalogue and the words that are generally used. The most basic words are explained below.

### ① Hoisting load

The maximum load that hoist (crane) can burden  
※The load that includes mass of a hook (lifting tod) and rated

### ② Rated load

The load that deducted the mass of a hook and the lifting tool from hoisting load  
※We display rating load with capacity.

### ③ Lift

Vertical movement distance of the hook  
※The standard lift of Mitsubishi hoist

● Low lift { Less than 3t→6m  
More than 5t→8m

● High lift 12m

※M,UM Type has only 12M.

### ④ Hoisting(Lifting)/Lowering

Vertical motion of the load

### ⑤ Traversing

Motion of hoist

### ⑥ Travelling

Motion of crane

※Distance hoist moves (speed) ..... Traversing distance(speed)  
※Distance crane moves (speed) ..... Travelling distance(speed)

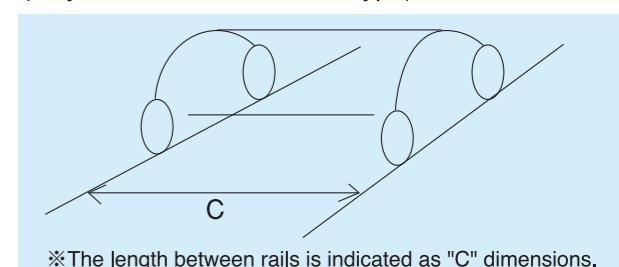
### ⑦ Minimum head room

From the upper end of the lift

- Monorail Type ... to under surface of I-beam
  - Double rail Type ... to contact surface with the rail
  - Suspended Type ... to the bolt hole center for suspending
  - Frame mounted Type ... to the under surface of a mounting frame
- ※The minimum head room is indicated as "N" dimensions.

### ⑧ Wheel distance of the hoist

Distance between the center of the traversing rail  
(only as for the Double rail Type)



※The length between rails is indicated as "C" dimensions.

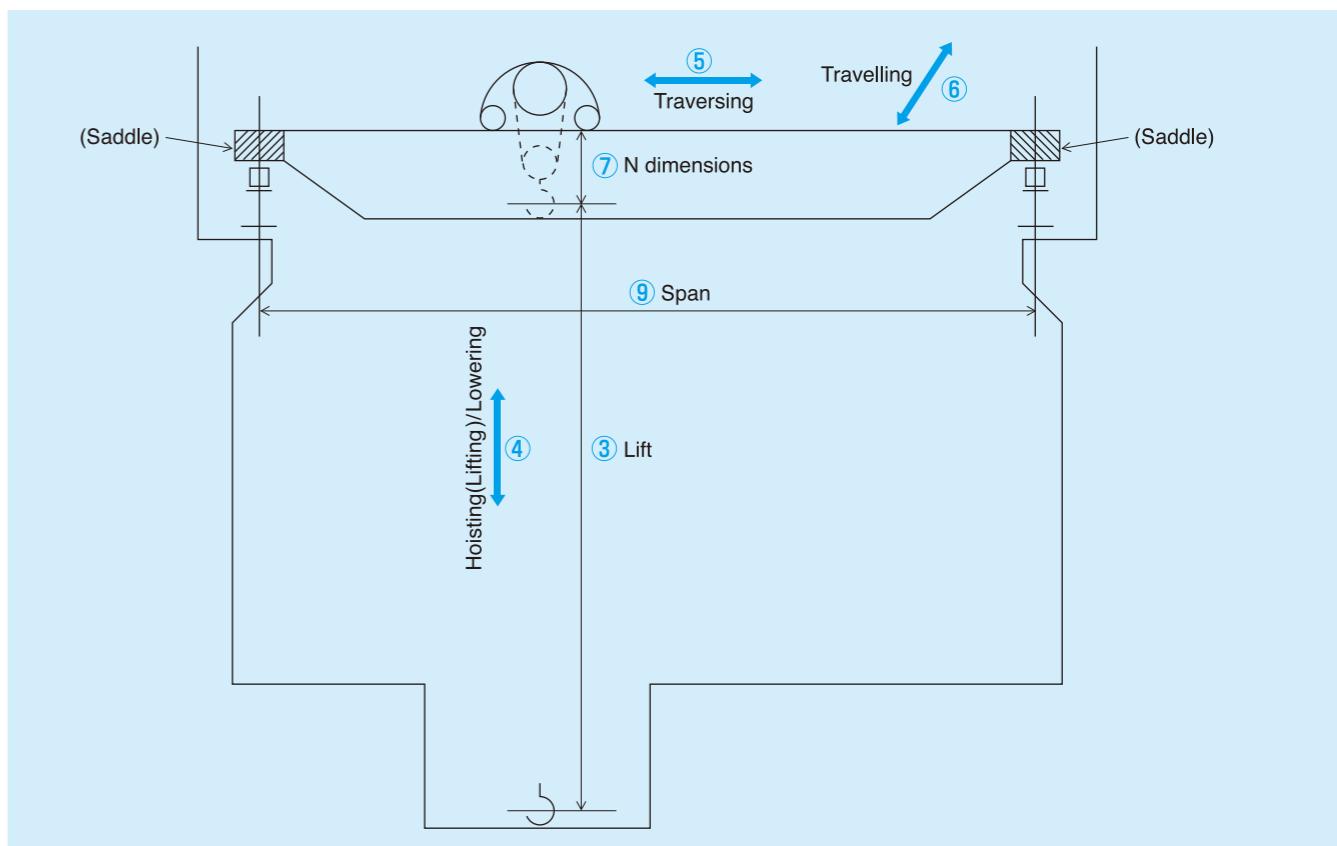
### ⑨ Span

Distance between the center of the traversing rails

### ⑩ Crane

Machine loaded by power, and to carry up and down, front and back and right and left

※The crane especially called Telfer works only up and down, right and left.



## ■The selection of the model

At first, select by purpose of use, use condition, frequency of use and decide concrete model by capacity, lift, shape(Suspended Type, Frame mounted Type, with traversing) and hoisting speed next.

### ① Allowable frequency of use

Select the model by the start number of times (the number of times of the up and down operation of the push button), percentage of duty cycle.(Please refer to the hoist applications and selection diagram of P3.)

### ② Capacity

S series, U2 series:1/2-60t, HU2 series:10t - 60t R series, UR series:1t - 2.8(3)t , M series , UM series : 5t and 10t

### ③ Lift

We have Low lift type and High lift type. As for the low lift, 6m (more than 5t, 8m), the high lift is 12m. Most models make both high lift and low lift.

\* M, UM Type has only 12M.

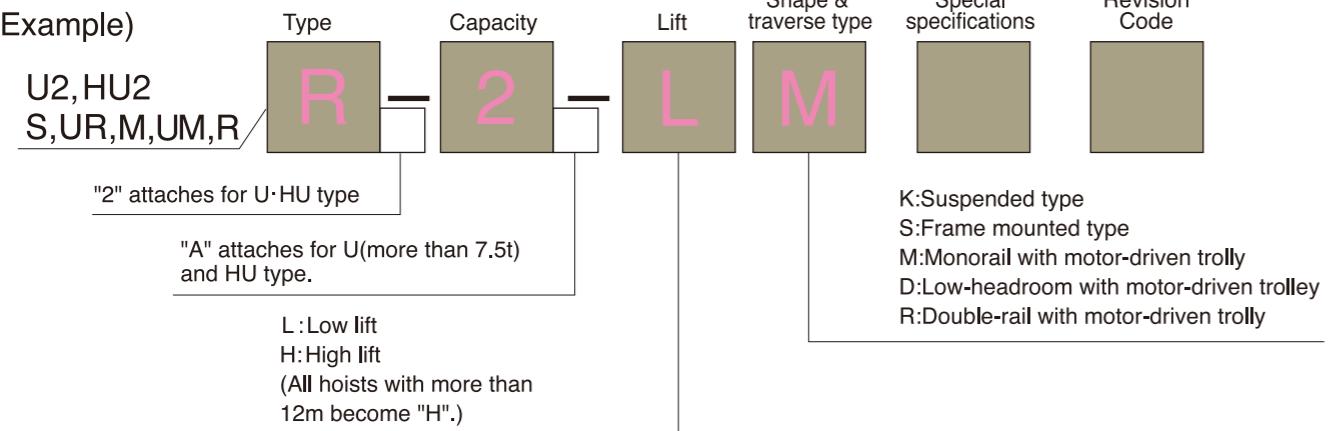
### ④ Shape

Suspended Type, Frame mounted Type, Monorail Type, Low-head Type, Double rail Type

\*There is some hoist which we don't produce by a model, capacity. (Please refer to production overview of P6.)

## ■Function code

(Example)



In the case of special hoists, the following code attaches to the end of function code.

Special specifications	Code
With hoisting inverter	H
With hoisting and traversing inverter	S
With traversing inverter(S type, R type)	T
With hoisting creep speed(S type)	VT
With hoisting and traversing creep speed(S type)	VS

Special specifications	Code
With gear type limit switch	G
With electric limit switch	E
With emergency brake	B
Explosion-proof type	X

## ■The viewpoint of the catalog

### ① MITSUBISHI Hoist applications and selection diagram, allowable duty cycle and the number of starts per Hr.

The allowable duty cycle and the number of starts per Hr. are described. Confirm how much frequency you use hoist at, and select the most suitable model.

### ② Production Overview Table

You can distinguish a production range according to the production overview table.

### ③ Specifications

We describe basic specifications of the hoist. You can identify wire rope size, motor capacity, lifting and traversing speed, current value, in addition, basic specifications.

### ④ Outline Drawings

We have outline drawings type-by-type. Minimum head room(N dimensions), general weight, applicable I-Beams are described in it. Please warn being the model that the minimum radius curvatures grows big with the I-Beam of small size by the facia column of the applicable I-Beam.

## ■Production model

	Type	Frequency of use	Type of Control system		Capacity(t)										
			Inverter	Magnetic contactor	1/2	1	2	2.8(3)	5	7.5	10	15	20	30	45
Variable speed type	U2	High	<input type="radio"/>		<input type="radio"/>										
	UR	Medium	<input type="radio"/>		<input type="radio"/>										
	UM	Medium	<input type="radio"/>		<input type="radio"/>										
Fixed speed type	S	High		<input type="radio"/>											
	R	Medium		<input type="radio"/>											
	M	Medium		<input type="radio"/>		<input type="radio"/>									

## ■Production Overview Table

### 〈U2〉〈S〉〈S-VT,VS〉Type

Capacity(t)	Motor Operated Traversing			Suspended Type	Frame mounted Type
	Monorail Type	Low-head Type	Double Rail Type		
1/2	LM/HM	LD/HD	LR/HR	LK/HK	LS/HS
1	6m/12m	6m	—	6m/12m	—
2	6m/12m	6m/12m	—	6m/12m	6m/12m
2.8(3)	6m/12m	6m/12m	6m/12m	6m/12m	6m/12m
5	8m/12m	8m/12m	8m/12m	8m/12m	8m/12m
7.5	8m/12m	8m/12m	8m/12m	8m/12m	8m/12m
10	8m/12m	8m/12m	8m/12m	8m/12m	8m/12m
15	8m/12m	—	8m/12m	8m/12m	8m/12m
20	12m	—	12m	—	12m
30	—	—	12m	—	12m
40	—	—	6.5m/11.5m	—	6.5m/11.5m
45	—	—	12m	—	12.5m
60	—	—	—	—	9.5m/14.5m

### 〈HU2〉 Type

Capacity(t)	Motor Operated Traversing			Suspended Type	Frame mounted Type
	Monorail Type	Low-head Type	Double Rail Type		
10	8m/12m	8m/12m	8m/12m	8m/12m	8m/12m
15	8m/12m	—	8m/12m	8m/12m	8m/12m
20	12m	—	12m	12m	12m
30	—	—	12m	—	12m
40	—	—	6.5m/11.5m	—	6.5m/11.5m
45	—	—	12.5m	—	12.5m
60	—	—	—	—	9.5m/14.5m

### 〈UR〉〈R〉 Type

Capacity(t)	Motor Operated Traversing			Suspended Type
	Monorail Type	Low-head Type	Double Rail Type	
1	LM/HM	LD/HD	LR/HR	LK/HK
2	6m/12m	6m	—	6m/12m
2.8(3)	6m/12m	6m	—	6m/12m

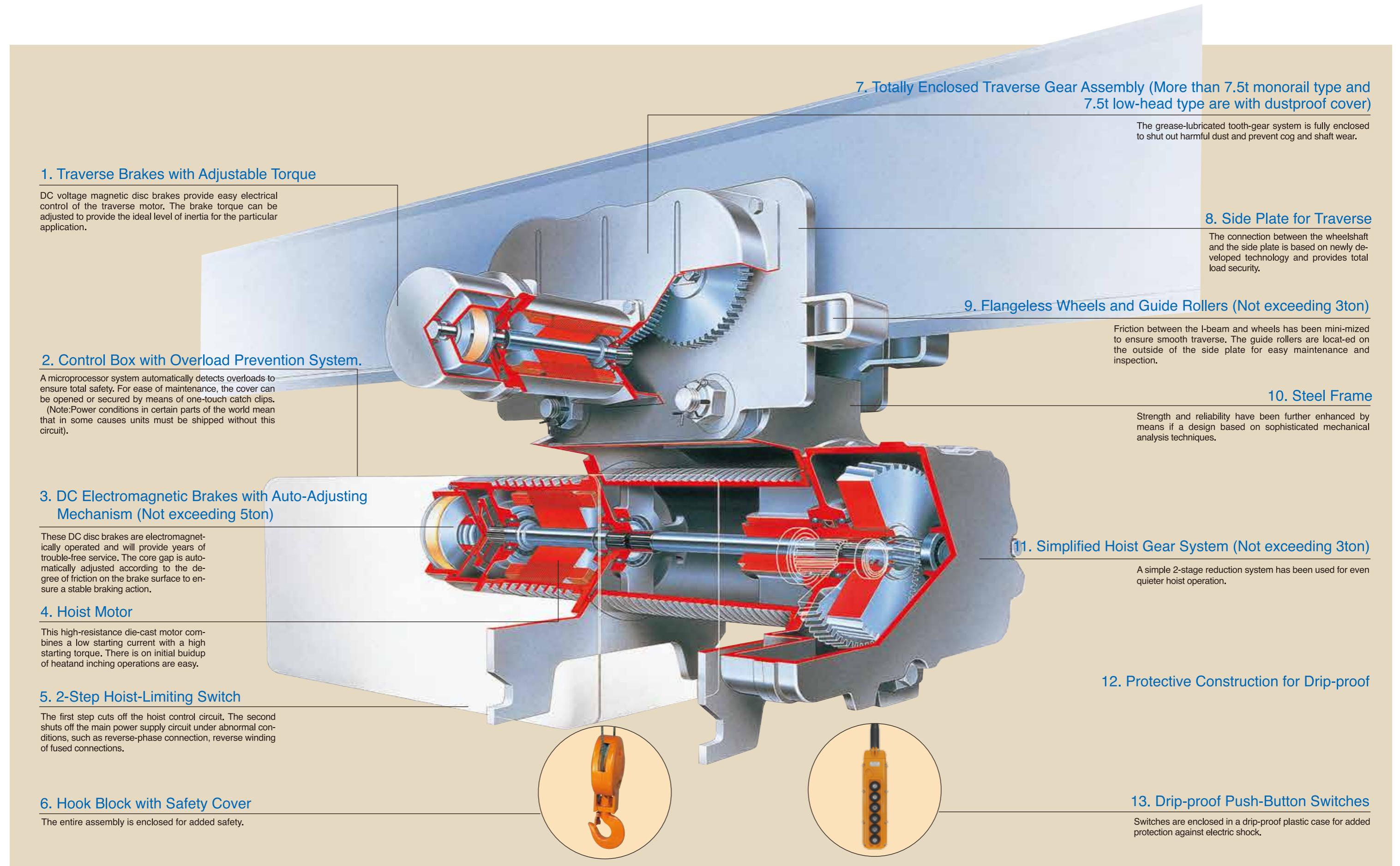
### 〈M〉〈UM〉Type

Capacity(t)	Motor Operated Traversing		Suspended Type	Frame mounted Type
	Monorail Type	Double Rail Type		
5	HM	HR	HK	HS
10	12m	12m	12m	12m

# SUPERB MECHANICAL FEATURES BASED ON

# A TRADITION OF ADVANCED TECHNOLOGY.

Control Box, traversing motor and oil gauge are arranged on the same side for ease of maintenance.



# U2・HU2 Type Series Ultra type 1/2t~60t

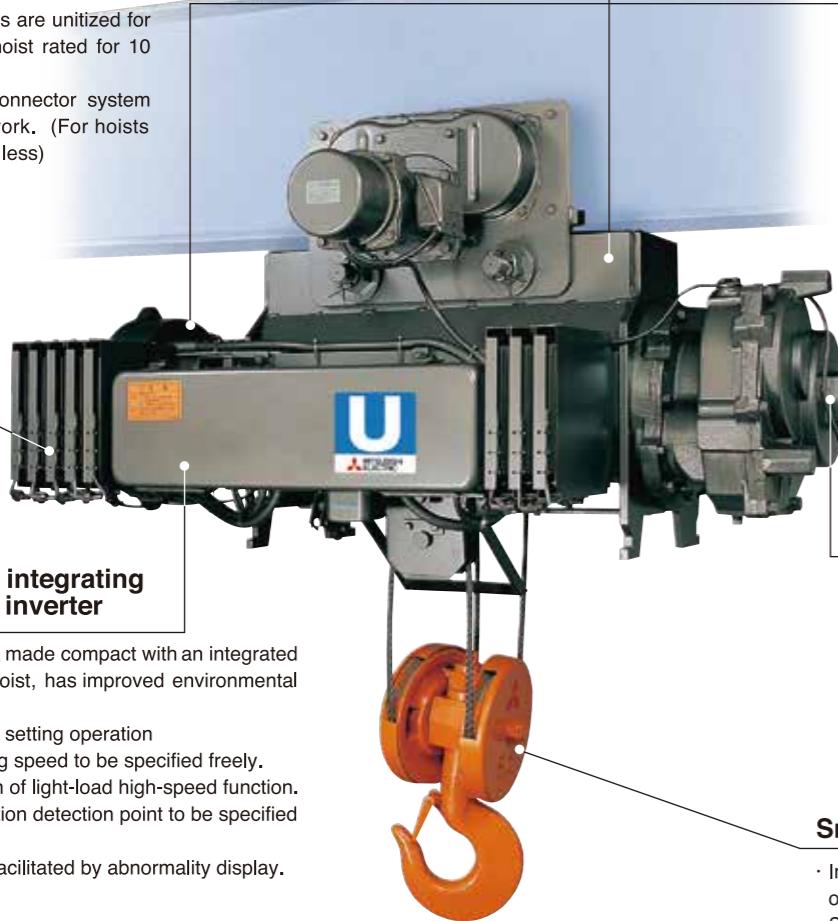
Included over load prevention function as standard equipment

## Adoption of S type body

- This series is based on the model S, high-performance parent body which features highest-in-class hoisting speed, power, and durability, and withstands repeated operations.

## Resistance unit

- Cement resistances are utilized for downsizing. (For hoist rated for 10 ton or less)
- Adoption of the connector system facilitates hoist work. (For hoists rated for 10 ton or less)



## Control panel integrating purpose-built inverter

- The control panel, made compact with an integrated inverter only for hoist, has improved environmental resistance.
- Simple parameter setting operation
  - Allows operating speed to be specified freely.
  - Allows selection of light-load high-speed function.
  - Allows the position detection point to be specified freely.
- Troubleshooting facilitated by abnormality display.

## Introduction of UA type 45 kW series

- 45 kW hoisting motor has further improved machine speed

Type	Capacity (t)	Hoisting speed m/min	Hoisting Motor Capacity(kW)	Poles(P)
UA	15	1.3/13	24kW X2台	4
	20	1.1/11		
	30	0.75/7.5		
	40	0.56/5.6		
	45	0.5/5		
	50	0.45/4.5		
	60	0.37/3.7		

\* Outside dimensions of this hoist differ from those listed on this catalog; contact us for further information.

\* A general-purpose inverter will be installed.

\* Some functions of this hoist differ from those on other Soukai-TEI products.

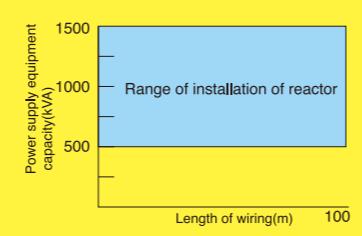
## Manufacturing specifications for typical large-capacity hoists

Type	Capacity (t)	Hoisting speed m/min	Hoisting Motor	
			Capacity(kW)	Poles(P)
U	100	0.36/2.2	24kW X2台	4
UA	100	0.67/4 Light-load high-speed function 6m/min	45kW X2台	4

\*400 V series are also available; contact us for further information.

## Note: AC Reactor

The inverter hoist might be damaged when it is connected directly with the large capacity power transformer (more than 500kVA transformer), there is a switch of the phase advance capacitor and the excessive peak current inflows into the power supply input circuit. In such cases, please make sure that the AC reactor is installed on the primary side of the inverter hoist.



## Inverter hoist that develops new use and new field

### Specifications

Type	Capacity(t)	Lift(m)	Wire Rope		Hoisting				Traversing											
			Rope specification		Inverter Operation		Monorail・Low-head type				Double rail type									
			Monorail type	Double rail type	speed m/min	Motor	speed m/min	Motor	speed m/min	Motor	speed m/min	Motor	speed m/min	Motor	speed m/min	Motor				
U2	1/2	6	φ 6.3	—	φ 4	—	6×W(19) B Class JISG3525	0.0233 (1.4)	0.217 (13)	0.325 (19.5)	1.2	8	4	0.22	0.26	1.6	1.5			
	1		φ 8 ※3	—	φ 6.3	—	6×Fi(29) B Class JISG3525	0.0183 (1.1)	0.167 (10)	0.25 (15)	2.4	17		0.35 (21)	0.417 (25)	0.417 (25)	0.5	0.6	3.2	3.1
	2		φ 10	—	φ 8	—					3.5	26								
	2.8		φ 12.5	—	φ 9	φ 9					4.9	32								
	3		φ 12.5	—	φ 9	φ 9					5.3	34								
	5		—	φ 11.2	φ 11.2	φ 11.2	IWRC6×Fi(29) B Class JISG3525	0.015 (0.9)	0.133 (8)	0.2 (12)	7.5	40								
	7.5		—	φ 14	φ 14	φ 14					10	54								
	10		—	φ 16	φ 16	φ 16					12	58								
	15		—	φ 20	—	φ 20					20	89								
	20		—	φ 22.4	—	φ 22.4					20	89								
	30		—	—	—	φ 25	IWRC6×Fi(29) B Class JISG3525	0.00833 (0.4)	0.0833 (3.3)	0.167 (6.6)	20	89								
	40		—	11.5	—	—					20	89								
	45		—	12.5	—	—					20	89								
	—	19	—	—	—	—					—	—								
HU2	10	8	—	φ 16	φ 16	φ 16	6×Fi(29) B Class JISG3525	0.015 (0.9)	0.15 (9)	0.225 (13.5)	18	90	4	1.5	1.8	8.5	8.1			
	15		—	φ 20	—	φ 20					30	130								
	20		—	φ 22.4	—	φ 22.4					30	130								
	30		—	—	—	φ 25					30	130								
	40		—	11.5	—	—	IWRC6×Fi(29) B Class JISG3525	0.00833 (0.5)	0.0833 (5)	0.125 (7.5)	30	130								
	45		—	12.5	—	—					30	130								
	50		—	—	—	—					30	130								
	60		—	—	—	—					30	130								

\*1 Please note that 40t is 8falls and 45t is 6falls. (Please contact us for 60t separately.)

\*2 Please contact us for 50t and 60t separately

\*3 Rope specification of 1t 2falls is 6×Fi(29)

- Power supply...3-phase 200V 50/60Hz control 200V, 220V 60Hz control 220V (400V class is also available) · 3-phase 400V 50/60Hz control 200V, 440V 60Hz control 220V · 3-phase 380V 50Hz control 48V(100V and 24V are also available)

- Operating method...Push button switch operations

# U2・HU2 Type (200V/400 class)

## Features of U2・HU2 type

### 1 Overload prevention function is included as standard.

Mitsubishi inverter hoists have an overload prevention function as standard, which stops hoisting when an overload is detected. The overload judgment value is adjustable within a range from 100 to 125 percent of the rated load. The overload detection signal is output by terminal [OUT3]. It can be set to stop the hoisting operation when an overload is detected. (The factory setting is that the hoisting is not stopped even if an overload is detected.)

### 2 Reduction of shock at starting and stopping

Mitsubishi inverter hoists can reduce the shock and shaking of the hoisting load considerably. Therefore, they are very useful for delicate load positioning and the load position can be controlled as you like.

### 3 Adjustable hoisting speed

Hoisting speed can be adjusted freely in a range from minimum speed to standard speed. This allows operators to select the most suitable speed for their jobs. Switching between high and low speed is facilitated by a two stage push button operation.

### 4 Highly controllable inching operation

Mitsubishi inverter hoists enable highly controllable inching operation, enabling delicate load positioning with ease. The traversing inverter allows sharp speed reduction by pushing the opposite direction button.

### 5 Low wearing brake and machine parts

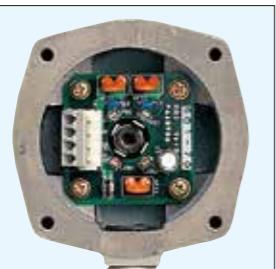
Mitsubishi inverter hoists can improve durability of brake discs, wire ropes, gears and sheaves because Mitsubishi inverter hoists drastically reduce load shock. (However, frequent use of light load, high speed mode may increase brake disc wear.) Unlike conventional hoists(non inverter hoists), it is not necessary to replace the electromagnetic contacts. Simplified design has reduced the number of parts, contributing to reduced failure risk and extended life span of many parts. Brake disc wear can be checked easily through a window on the brake box. (The pressure plate and brake disc have wear limit indications. The window allows you to check whether the adjustment ring has dropped.)

### 6 Electronic limit switches (for upper and lower limits)

Electronic limit switches can decelerate and stop the hook automatically by detecting the hook position. All position settings (deceleration and stop positions) can be controlled at the same time, allowing you to replace the wire rope with ease. Unnecessary position settings can be canceled. For example, only the setting of the lower limit stop position is required when other positions are not used.

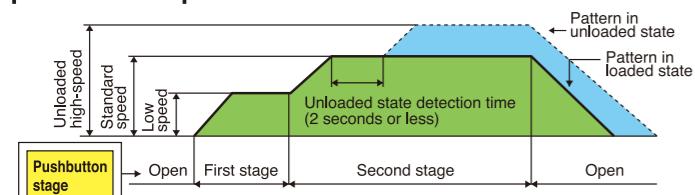
## Encoder The encoder monitors U2 type functions.

The encoder constantly monitors rotation speed and direction of the motor shaft (the first gear shaft), displaying the following functions:



	Function	Description
1	Drop detection function	If rotation is in the "down" direction despite an "up" pushbutton command, this function immediately activates the hoist brake, preventing the load from dropping.
2	Electronic limit switch (for the upper and the lower limit)	This switch totals the number of rotation pulses and decelerate or stop at the specified deceleration or stop position, and stores the travel distance.
3	Unloaded high-speed function Light-load high-speed function	The amount of motor slip depends on the magnitude of the load. When the amount of slip falls below a preset level, the hoist is automatically judged to be in unloaded state, it switches over to high speed mode.
4	Speed-coordination function	This revises frequency to maintain constant speed when the load changes.

## Operation patterns changed by the pushbutton operation



## Operation history display function

**Failure history display**: When a failure occurs, stopping the hoist, this function helps to track down the cause of failure by showing the history of past failures. It helps solve the problem when a failure has occurred.  
**Error history output**: The number of times of operation and the time when an error occurred are output.  
**Number of starts/operating hours display**: This display shows the hoist's working history. It is also useful in determining when to replace consumables.  
\* Contact us for a specially-built product.

### 7 Light load, high speed operation function (Automatic speed change function)

This function detects the load and changes the hoisting speed automatically when the load is between 0% and 25% of the rated load. If hoist is less than 7.5 tons, hoisting speeds are changed automatically to 1.5x faster than standard speeds. And if over 10 ton hoists, they are changed to 2x faster than standard speeds. The judgment value is changeable in the range of 25% to 50% (in use) of the rated load for users who use a load handling device. This function can be used even under combined hoisting operation. It can be set to output "R" phase voltage from the "OUT 3" terminal when the load value is judged. It can prevent the case where only one side of the hoist changes to high speed automatically if each hoist's "OUT 3" is connected to the other side of terminal "IN 4". The operation frequency of the light load, high speed operation function can be changed. (It is possible that hoists with special long lifts can not equip the light load, high speed operation function.)

### 8 Numerous output signals

Signals are output from OUT1 at the upper limit stop point, and from OUT 2 at the lower limit. Signals are output from OUT3 when overload evaluation is carried out, and from OUT4 during operation. Settings can be changed to get signals from OUT3 when light loading evaluation is done.

### 9 Speed coordination function

This function is to restrict the load slope attributed to combined hoisting operation. The low hoisting speed and low lowering speed are within ±20% (within JIS stipulated range). This function also enables very stable hoisting and lowering speed (within ±1%).

### 10 Environmental considerations

Efforts to remove environmental toxins from our products continued. (Solders for printed-circuit boards, alloys for wire rope ends, and coating materials were modified to be lead-free. Hexavalent chrome plating was changed to trivalent chrome plating.) Brake discs and packing do not contain asbestos. Mitsubishi hoisting motors save energy by designing to restrict motor temperature rises during inching operation.

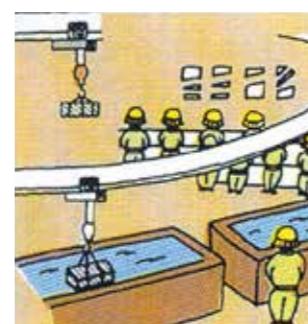
### 11 Protection function

This function is to stop the hoist temporarily for safety when the hoist detects power failure, abnormal power supply voltage and over current, etc. Error canceling can be stopped by pushing the button excluding some error mode. (When a stop mode is required to reset the power, checking the hoist is recommended.)

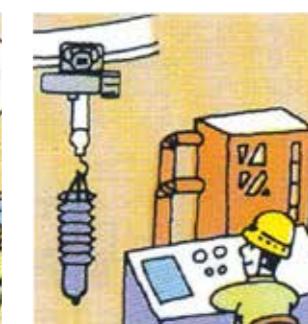
## U2 TYPE application examples



Factory building with an office on the upper level(The building does not shake.)



Plating line and metal mold machining line



Transportation of fragile items like glass products(No shocks are transmitted to the hoisted load )



Accurate positioning (The hoisted load does not shake.)

## Options

### \* Improved ease of use

### Synchronous by speed-coordination function

Controls tilt of load when hoisted by two or more hoists.

### Multi-stage speed function

This function is useful in automatic operations using a sequencer; for one of eight-stage inputs for either hoisting or lowering a load, the machine can be operated at the desired speed.

### Position detection multi-point output

Using an ELS circuit board, this function provides operation information on how the machine is being used.

### Rotation signal output

Using a BTS circuit board, this function allows a two-phase signal to be sent to the sequencer or similar devices.

## Hoist-specific inverter control panel

\* The compactly-designed control panel is also vibration resistant.

\* Parameter settings have been simplified, requiring only four buttons.



### Attention in use

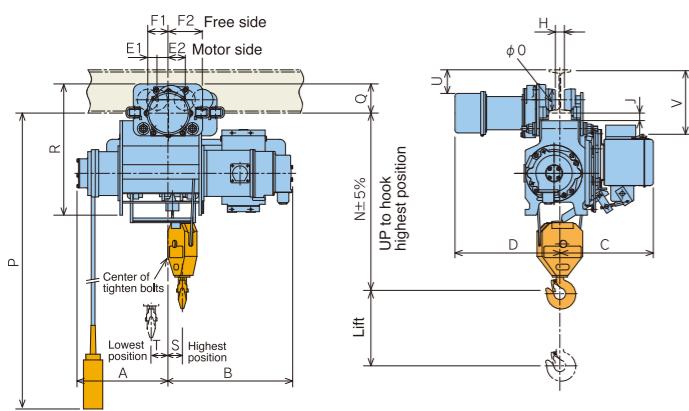
- The inverter hoist doesn't stop the push-button of turning off at once. It stops as the cushion working, and operate in consideration of the stopping distance, please.
- Using memory unit of the microcomputer data,Please avoid the entering cutting of a needless power supply. (The longevity frequency of the memory unit is 100,000 times in the power supply interception.)
- Notes concerning the noise ... Disorder and the malfunction of the voice might be caused by the setting condition in a nearby television and an electronic equipment including the radio etc. For this case, we will recommend the installation of the noise filter.

# Monorail Type U2

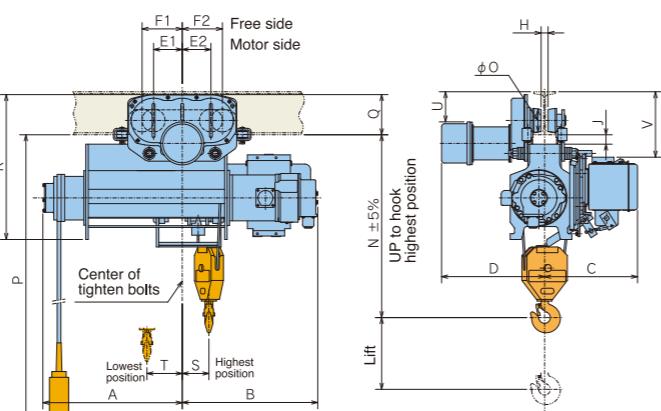
(1/2t·1t·2.8t·3t·5t)

※Contact us for 400V class outline

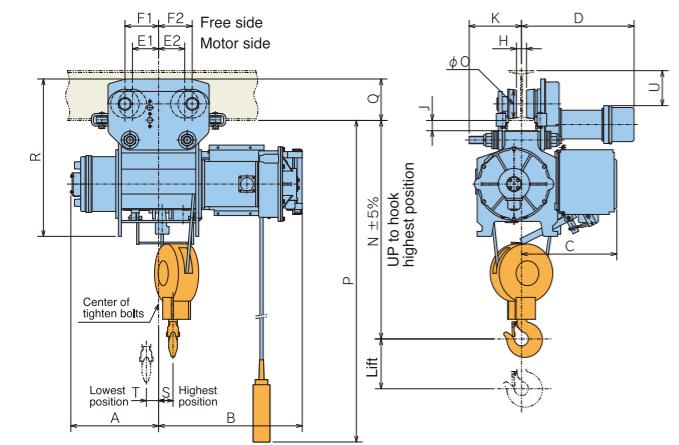
U2-1/2-LMH2



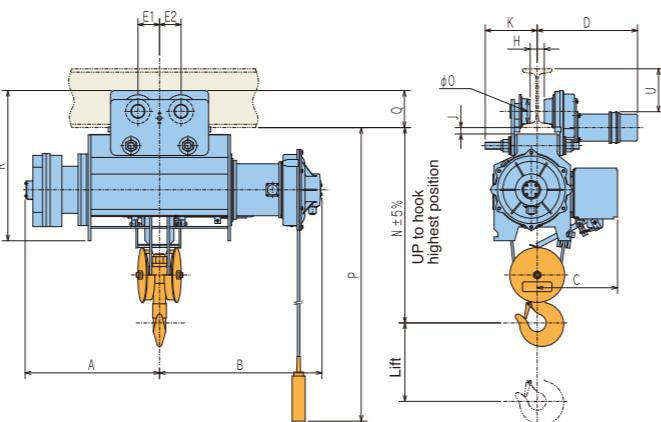
U2-1/2-HMH2



U2-1·2·2.8·3



U2-5



Model	U2-1/2				U2-1				U2-2				U2-2.8(3)				U2-5						
	LMH2	LMS2	HMH2	HMS2	LMH2	LMS2	HMH2	HMS2	LMH2	LMS2	HMH2	HMS2	LMH3	LMS3	HMH3	HMS3	LMH3	LMS3	HMH3	HMS3			
Cap.(t)	1/2		1		2		2.8(3)		5														
Lift(m)	6		12		6	12	6	12	6	12	8	12	8	12	8	12	8	12	8	12			
A	315		485		321	508	352	509	373	542	685	810											
B	433		473		518	551	577	605	658	689	830	955											
C	324		345		383		408		410														
E1	38		100		100		105		105		110												
E2	58		100		100		105		105		110												
F1	70		140		140		135		135		—												
F2	120		140		140		135		135		—												
K	—		208	167	210		216		265														
N	625		635		735		875		1045		996												
O	73		80		80		114		114		125												
P	6000		12000		6000	12000	6000	12000	6000	12000	8000	12000											
R	455		505		545		632		720		766												
S	50		93		71	105	58	101	60	97	—												
T	58		123		42	119	49	113	47	115	—												
Min.rad.curvature(m)	1.2(4.0)		1.8(7.0)		1.8(7.0)		1.8(5.0)		2.0		5.0	6.3	5.0	6.3									
Weight(kg)	120	120	150	150	175	190	290	315	390	425	630	700											
Hook block weight(kg)	4.5		7.5		15		27		42														
I-Beam related dimensions	D	H	J	Q	U	V	D	H	J	Q	U	D	H	J	Q	U	D	H	J	Q	U	V	
Applicable I-Beam(mm)	200×100×7*1	376	54	26	101	125	265	372	48	33	140	155	277	372	48	33	140	155	453	40	41	167	140
	250×125×7.5																						
	300×150×8																						
	300×150×11.5																						
	450×175×13																						
	600×190×13																						

Note,rad.curv( ) at I-Beam U2-1/2, 1···150×75×5.5 U2-2···200×100×7 Note Applicable I-Beam =Standard =required special attachment

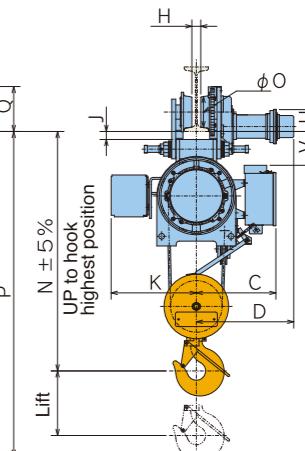
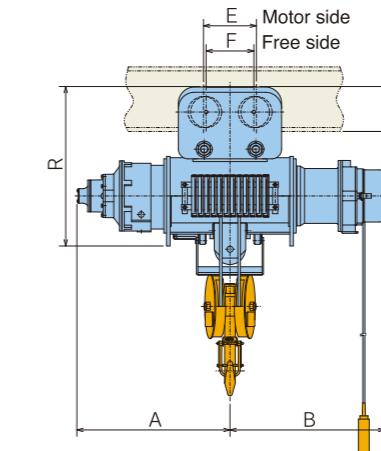
\*1 150×75×5.5 is applicable

# Monorail Type U2

(7.5t·10t·15t·20t)

※Contact us for 400V class outline

U2-7.5A · 10A



U2-15A · 20A

Model	U2-7.5A				U2-10A				U2-15A				U2-20A				
	LMH6	LMS6	HMH6	HMS6	LMH6	LMS6	HMH6	HMS6	LMH6	LMS6	HMH6	HMS6	LMH6	LMS6	HMH6	HMS6	
Cap.(t)	7.5		10		8	12	8	12	8	12	8	12	12				
Lift(m)	8		12		949		1074		1045		1195						
A	881		1006		959		1084		1085		1235						
B	1004		1129		458		493		558		583						
C					300		328		300		328						
E			270		296		270		270		296						
F					—		—		620		800						
G			497		528		430		430		455						
H					1270		1450		1930		2090		</				

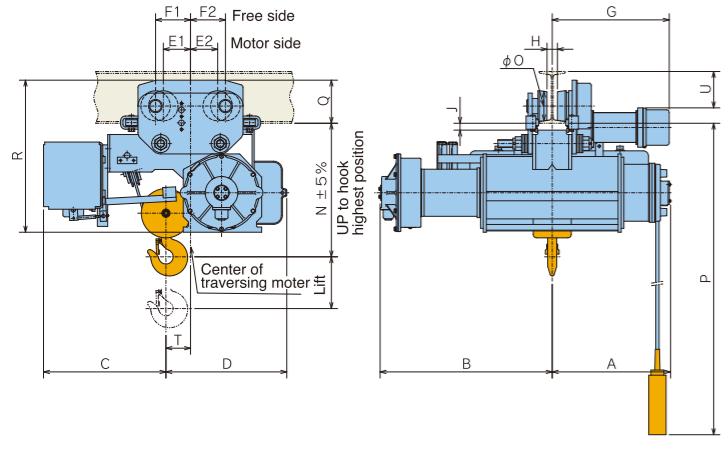
# Low-head Type

# U2

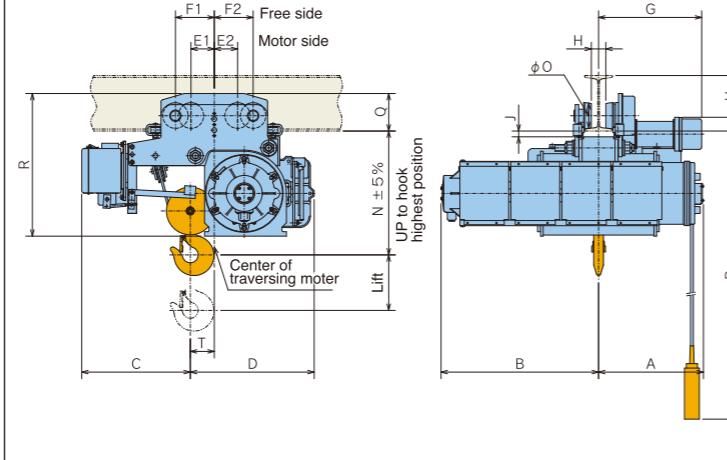
(1/2t·1t·2t·2.8t·3t·5t)

※Contact us for 400V class outline

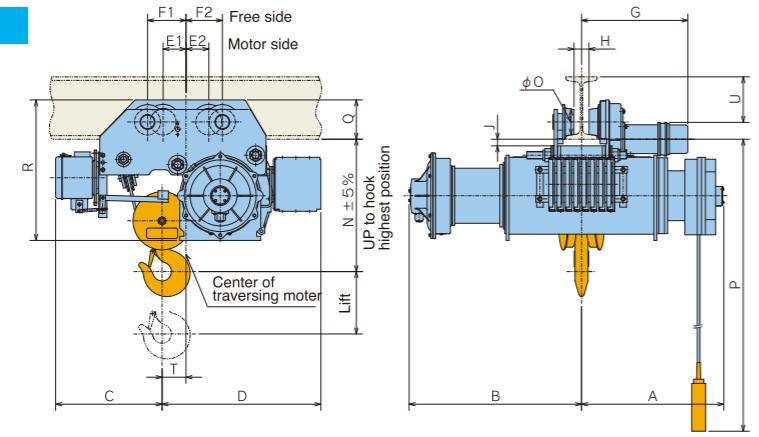
U2-1/2 · 1 · 2



U2-2.8 · 3



U2-5



Model	U2-1/2		U2-1				U2-2		U2-2.8 (3)			U2-5								
	LDH2	LDS2	LDH2	LDS2	HDH2	HDS2	LDH2	LDS2	HDH2	HDS2	LDH3	LDS3	HDH3	HDS3	LDH3	LDS3	HDH3	HDS3		
Cap.(t)	1/2		1				2		2.8(3)		5									
Lift(m)	6		6		12		6		12		6		12		8		12			
A	433		444		611		457		635		472		622		685		810			
B	528		616		784		668		847		711		861		830		955			
C	371		423				473				490				513					
D	272		356				467				558				764					
E1	58		100				105				105				110					
E2	38		100				105				105				110					
F1	120		140				135				175				185					
F2	70		140				135				175				175					
N	345		410				505				535				650					
O	73		80				114				114				125					
P	6000		6000		12000		6000		12000		6000		12000		8000		12000			
R	410		495				588				643				676					
T	66		58				95				108				115					
Min.rad.curvature(m)	1.2 (4.0)		1.8 (7.0)				1.8 (5.0)				2.0				6.3					
Weight(kg)	150		150		200		215		305		340		405		440		640		710	
Hook block weight(kg)	5.5				8				15				25			42				
I-Beam related dimensions	G	H	J	Q	U	G	H	J	Q	U	G	H	J	Q	U	G	H	J	Q	U
200×100×7 *1	376	54	20	101	125	372	48	21	140	155	453	40	26	167	140	—	—	—	—	—
250×125×7.5						385	74	19	142	203	465	64	24	169	188	465	64	26	169	188
300×150×8											478	90	23	170	237		—	—	—	—
300×150×11.5			—								478	90	14	179	228	478	90	16	179	228
450×175×13			—												512	72	31	189	219	
600×190×13			—												524	96	27	193	365	

Note.rad.cur( ) at I-Beam U2-1/2, 1···150×75×5.5 U2-2···200×100×7

Note Applicable I-Beam =Standard =required special attachment

\*1 150×75×5.5 is applicable

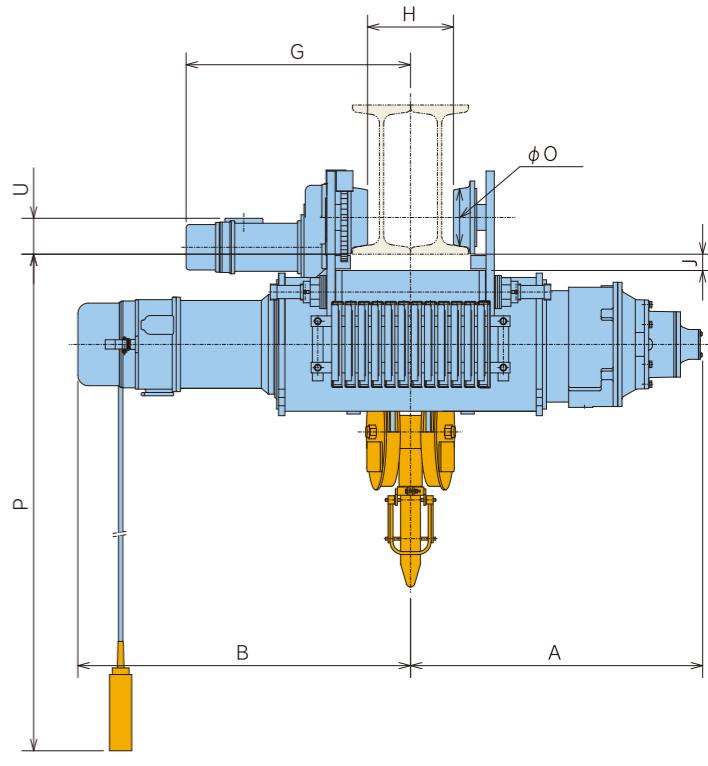
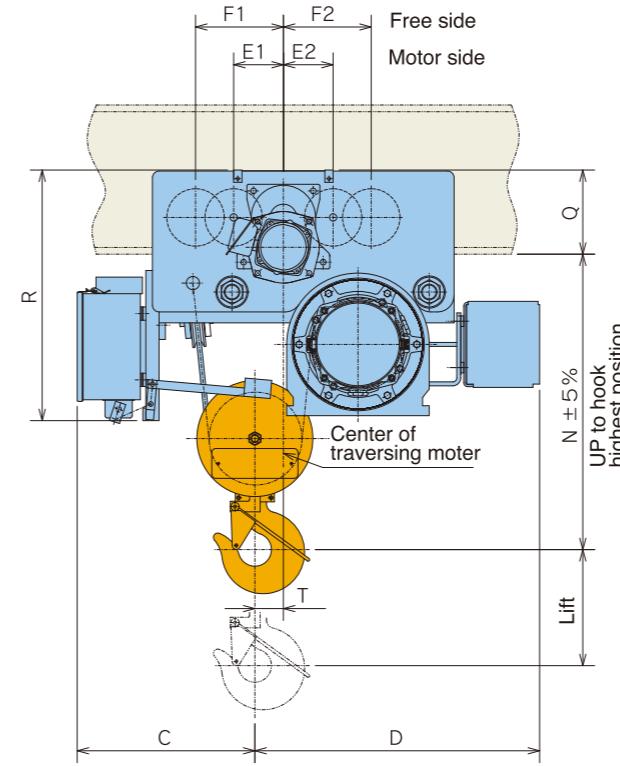
# Low-head Type

# U2

(7.5t·10t)

※Contact us for 400V class outline

U2-7.5 · 10



Model	U2-7.5A				U2-10A					
	LDH6	LDS6	HDH6	HDS6	LDH6	LDS6	HDH6	HDS6		
Cap.(t)	7.5				8		12			
Lift(m)					8		12			
A	881		1006		949		1074			
B	1004		1129		959		1084			
C	536						619			
D	859						946			
E1	150						604			
E2	150						164			
F1	265						528			
F2	265						162			
N	880						990			
O	173						193			
P	8000		12000		8000		12000			
R	756						873			
T	86						363			
Weight(kg)	1000		1070		1550		1650			
Hook block weight(kg)			80				100			
I-Beam related dimensions	G	H	J	Q	U	G	H	J	Q	U
450×175×13 2 rails	678	257	49	254	109	711	253	49	279	141
600×190×13 2 rails	693	288	50	253	108	726	284	50	278	140

Note Applicable I-Beam =Standard

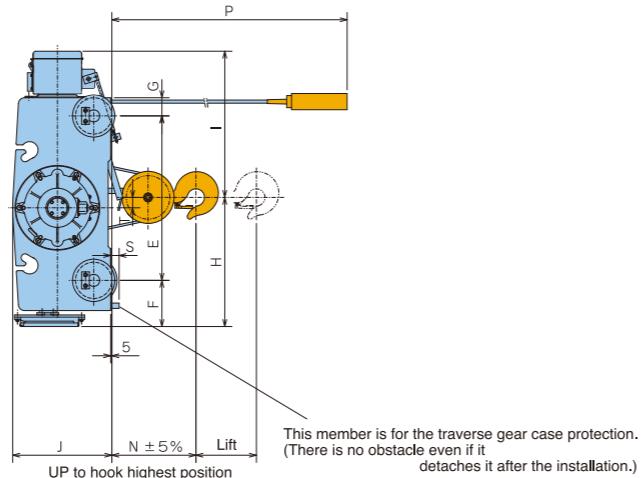
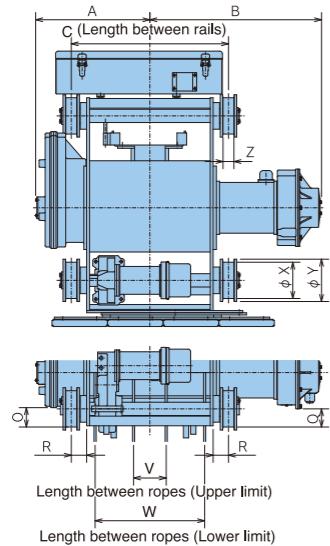
# Double rail Type

# U2

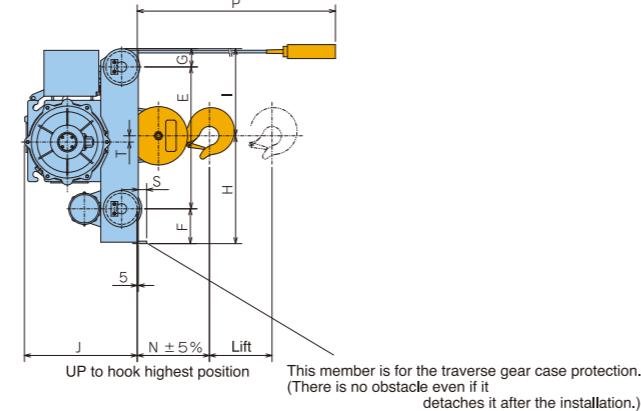
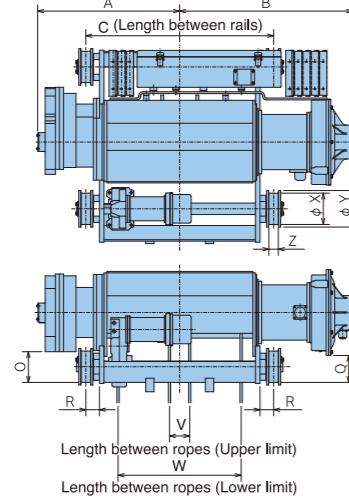
(2.8t·3t·5t)

※Contact us for 400V class outline

U2-2.8 · 3



U2-5



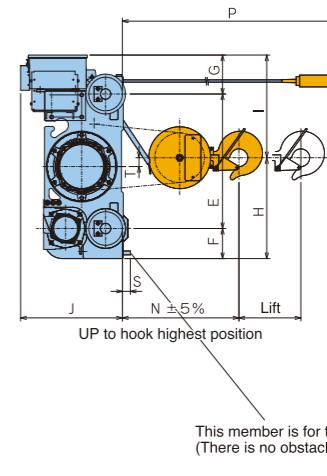
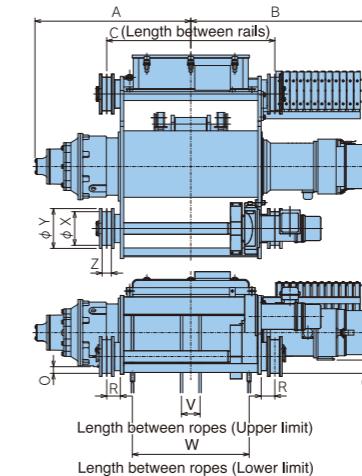
# Double rail Type

# U2

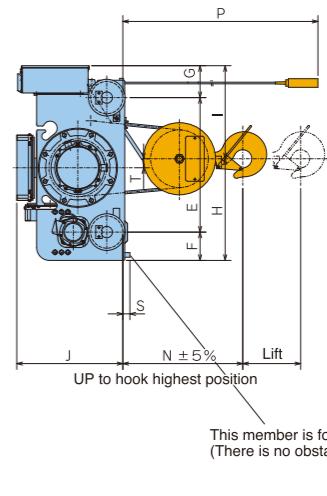
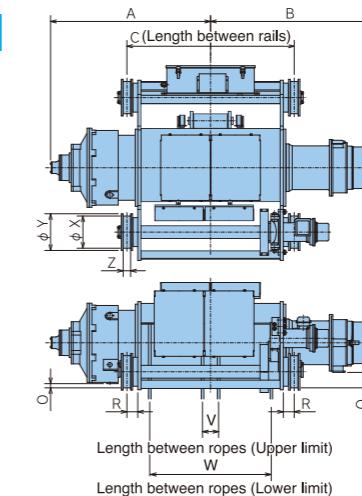
(7.5t·10t·15t·20t·30t)

※Contact us for 400V class outline

U2-7.5A · 10A



U2-15A · 20A · 30A



Model	U2-2.8(3)				U2-5			
	LRH3A	LRS3A	HRH3A	HRS3A	LRH3A	LRS3A	HRH3A	HRS3A
Cap.(t)	2.8(3)				5			
Lift(m)	6		12		8		12	
A	472		622		685		810	
B	711		861		830		955	
C	650		950		900		1150	
E	680				680			
F	191				167			
G	75				88			
H	534				517			
I	605				418			
J	410				541			
N	345				346			
O	52				125			
P	6000		12000		8000		12000	
Q	75				129			
R	63				65			
S	35				40			
T	43				30			
V	113		105		97		100	
W	433		733		590		840	
X	150				150			
Y	175				175			
Z	45				45			
Weight(kg)	440		490		690		770	
Hook block weight(kg)	25				42			
Applicable Rail	12kg rails or 38mm steel square bars				15kg rails or 44mm steel square bars			

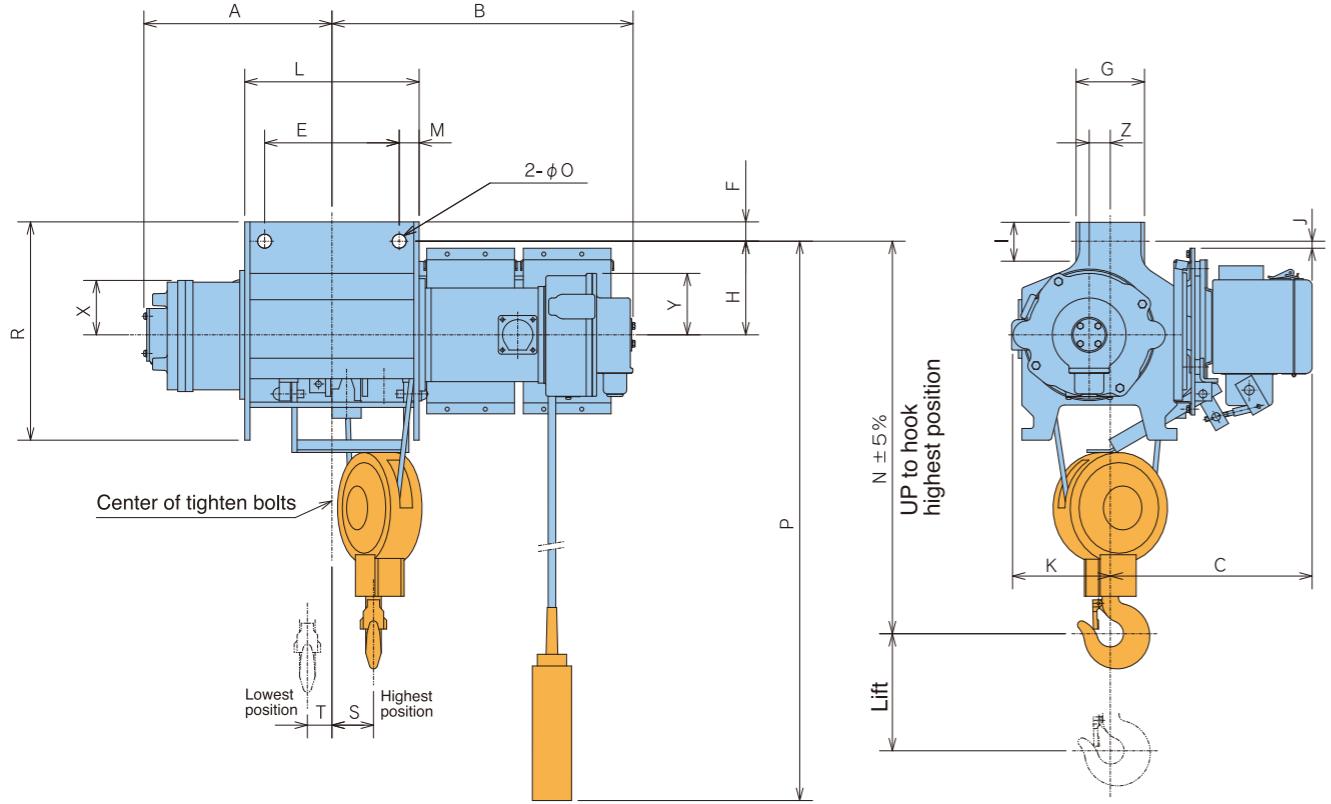
Model	U2-7.5A				U2-10A				U2-15A				U2-20A		U2-30A	
	LRH6	LRS6	HRH6	HRS6	LRH6	LRS6	HRH6	HRS6	LRH6	LRS6	HRH6	HRS6	HRH6	HRS6	HRH6	HRS6
Cap.(t)	7.5				10				15				20		30	
Lift(m)	8		12		8		12		8		12		12		12	
A	881		1006		949		1074		1045		1195		1243		1456	
B	1004		1129		959		1084		1085		1235		1235		1285	
C	950		1200		950		1200		1000		1300		1300		1400	
E	760				840				1000				1045		1190	
F	170				170				220				220		220	
G	223				233				243				248		246	
H	570				613				760				790		850	
I	583				630				703				723		806	
J	575				575				813				824		868	
N	630				710				860				910		1020	
O	40				38				30				32		15	
P	8000		12000		8000		12000		8000		12000		12000		12000	
Q	75				30				85				120		115	
R	77				82				84				84		89	
S	45				55				55				55		45	
T	50				53				70				70		80	
V	105		80		100		100		110		135		125		150	
W	660		910		620		870		660		960		945		990	
X	190				190				250				250		250	
Y	225				225				285				285		285	
Z	52				52				58				58		73	
Weight(kg)	950		1030		1300		1410		2000		2200		2600		3700	
Hook block weight(kg)	80				100				190				280		380	
Applicable Rail	15kg rails or 44mm steel square bars				22kg rails or 50mm steel square bars				37kg rails or 65mm steel square bars				37kg rails or 65mm steel square bars			

# Suspended Type U2 (1/2t·1t·2t·2.8t·3t)

※Contact us for 400V class outline

**U2-1/2·1·2·2.8·3**

< LKH2, LKH3,  
HKH2, HKH3 >



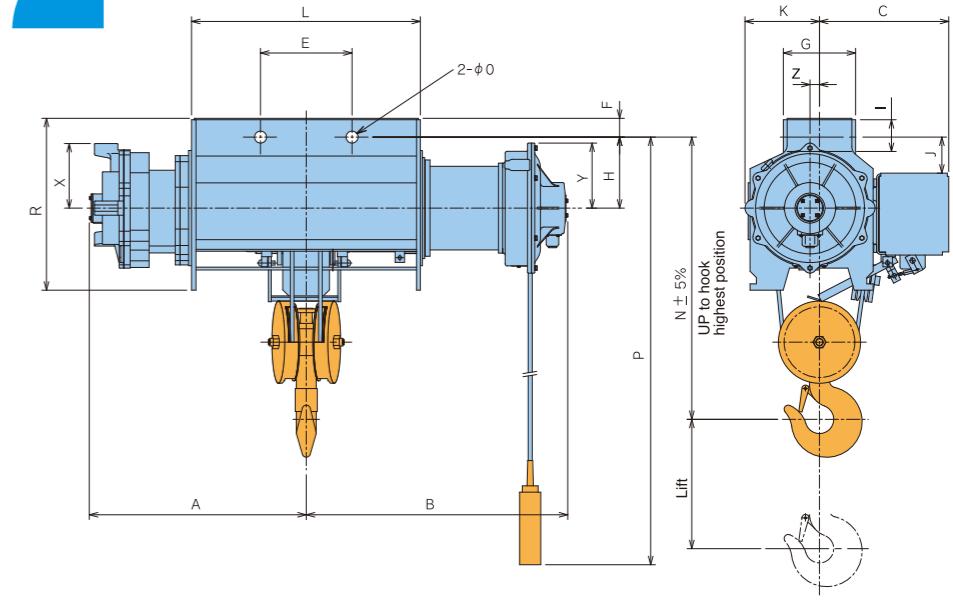
Remarks: Clamping bolts are available for 1/2t~2.8t models separately.

Model	U2-1/2		U2-1		U2-2		U2-2.8(3)	
	LKH2	HKH2	LKH2	HKH2	LKH2	HKH2	LKH3	HKH3
Cap.(t)	1/2		1		2		2.8(3)	
Lift(m)	6	12	6	12	6	12	6	12
A	315	486	321	508	352	509	373	542
B	433	473	518	551	577	605	658	689
C	324		345		383		408	
E	170	230	230		230		230	
F	28	33	33		38		43	
G	140	117	117		151		176	
H	155		160		177		215	
I	75	78	63		67		80	
J	3		12		21		89	
K	151		167		190		216	
L	283	493	298	518	323	508	323	523
M	32	42	34	67	47	75	46	77
N	570		670		800		965	
O	20	24	24		33		33	
P	6000	12000	6000	12000	6000	12000	6000	12000
R	328	333	373		425		518	
S	50	93	71	105	58	101	60	97
T	58	123	42	119	49	113	47	115
X	87		107		140		172	
Y	83		105		150		150	
Z	20		36		30		30	
Weight(kg)	100	110	145	160	230	255	325	360
Applicable I-Beam(mm)	4.5		7.5		15		27	

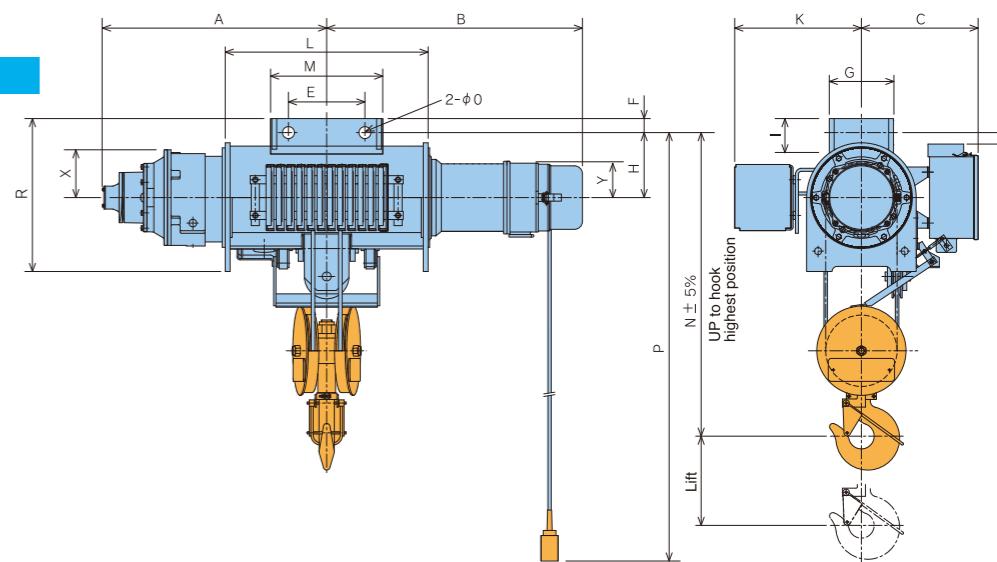
The pushbutton position of U2-1/2 is positioned on the side of hoisting deceleration part.

# Suspended Type U2 (5t·7.5t·10t)

**U2-5**



**U2-7.5A · 10A**

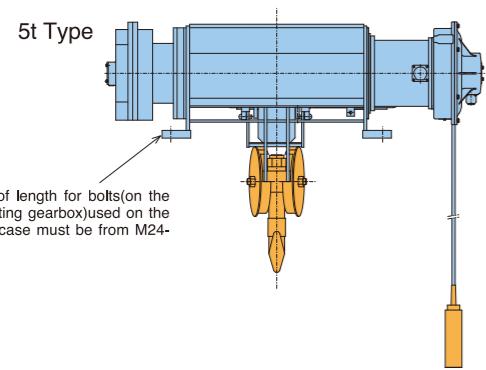
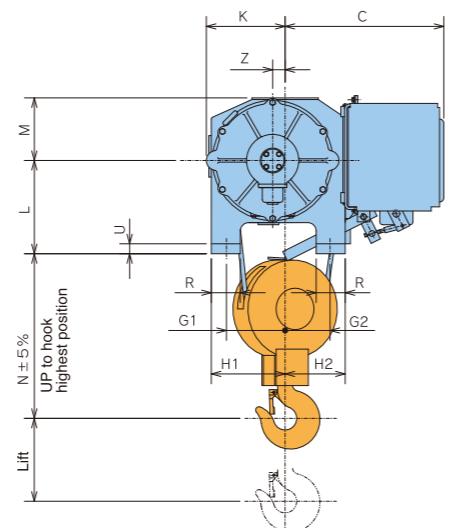
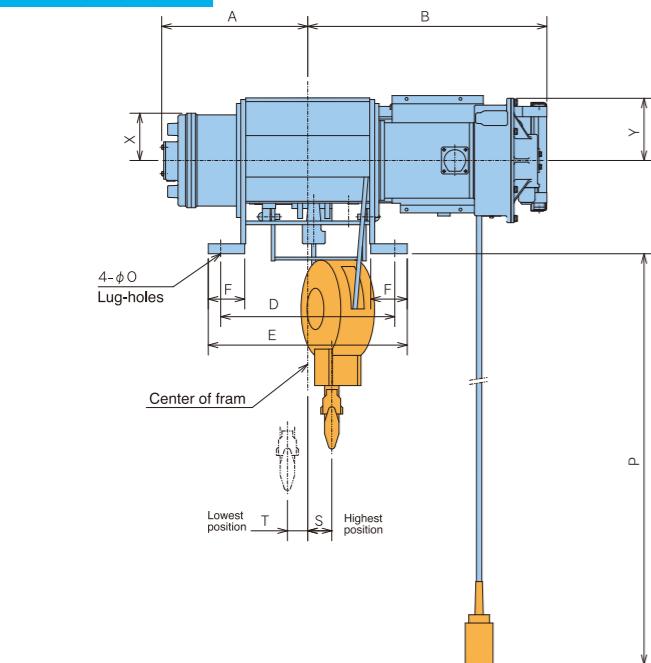


Model	U2-5		U2-7.5A		U2-10A	
	LKH3	HKH3	LKH6	HKH6	LKH6	HKH6
Cap.(t)	5		7.5		10	
Lift(m)	8	12	8	12	8	12
A	685	810	881	1006	949	1074
B	830	955	1004	1129	959	1084
C	410		458		493	
E	290		300		320	
F	60	61	55		60	
G	229		252		252	
H	225		255		290	
I	105	106	120		120	
J	114		45		100	
K	236		497		528	
L	725	975	796	1046	786	1036
M	—		440		460	
N	905		1165		1380	
O	38		47		53	
P	8000	12000	8000	12000	8000	12000
R	546		600		660	
X	205		188		218	
Y	206		152		220	
Z	30		—		—	
Weight(kg)	580	650	700	770	1050	1150
Applicable I-Beam(mm)	42		80		100	

# Frame mounted Type U2 (1t·2t·2.8t·3t·5t)

※Contact us for 400V class outline

U2-1·2·2.8·3·5



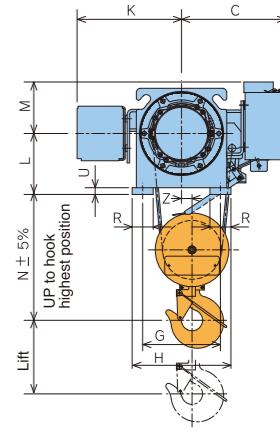
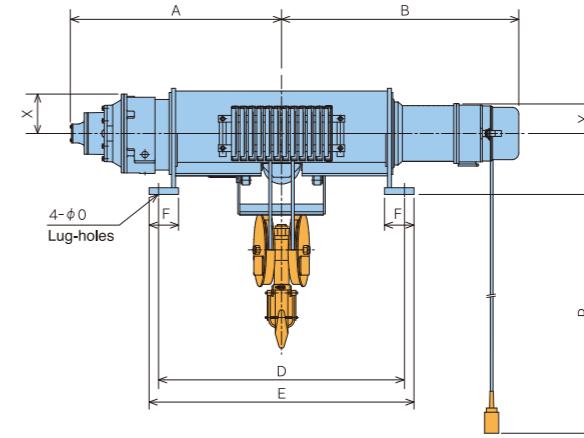
The range of length for bolts(on the side of hoisting gearbox) used on the side of the case must be from M24-70 to 100.

Model	U2-1		U2-2		U2-2.8 (3)		U2-5	
	LSH2	HSH2	LSH2	HSH2	LSH3	HSH3	LSH3	HSH3
Cap.(t)	1		2		2.8 (3)		5	
Lift(m)	6	12	6	12	6	12	8	12
A	321	431	352	445	373	473	685	810
B	518	628	577	670	658	758	830	955
C	345		383		408		410	
D	385	605	420	605	430	630	850	1100
E	435	655	480	665	500	700	920	1170
F	75		88		99		115	
G1·G2	121/84		141/109		170/130		175/145	
H1·H2	151/114		178/145		210/170		220/190	
K	167		190		216		236	
L	180		225		275		260	
M	148		157		181		206	
N	330		410		490		420	
O	15		19		24		28	
P	6000	12000	6000	12000	6000	12000	8000	12000
R	60		70		80		90	
S	71	182	58	165	60	166	—	
T	42	42	49	49	47	47	—	
U	18		24		27		31	
X	107		140		172		205	
Y	105		150		150		206	
Z	36		30		30		30	
Weight(kg)	125	145	185	225	320	360	580	650
Hook block weight(kg)	7.5		15		27		42	

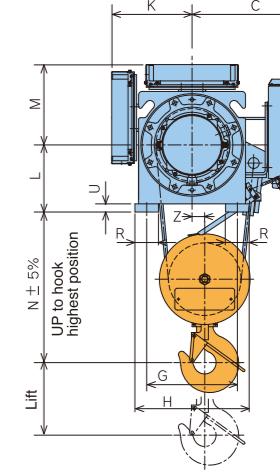
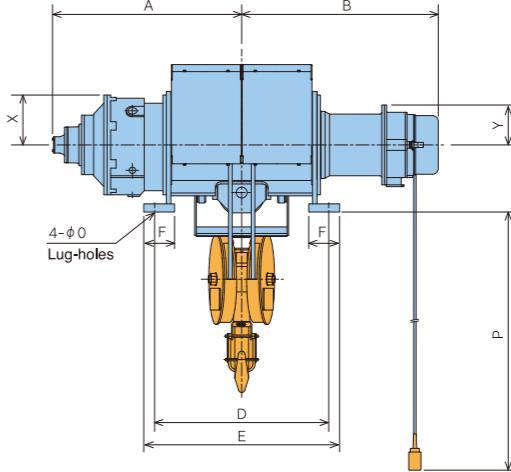
# Frame mounted Type U2 (7.5t·10t·15t·20t·30t)

※Contact us for 400V class outline

U2-7.5A · 10A



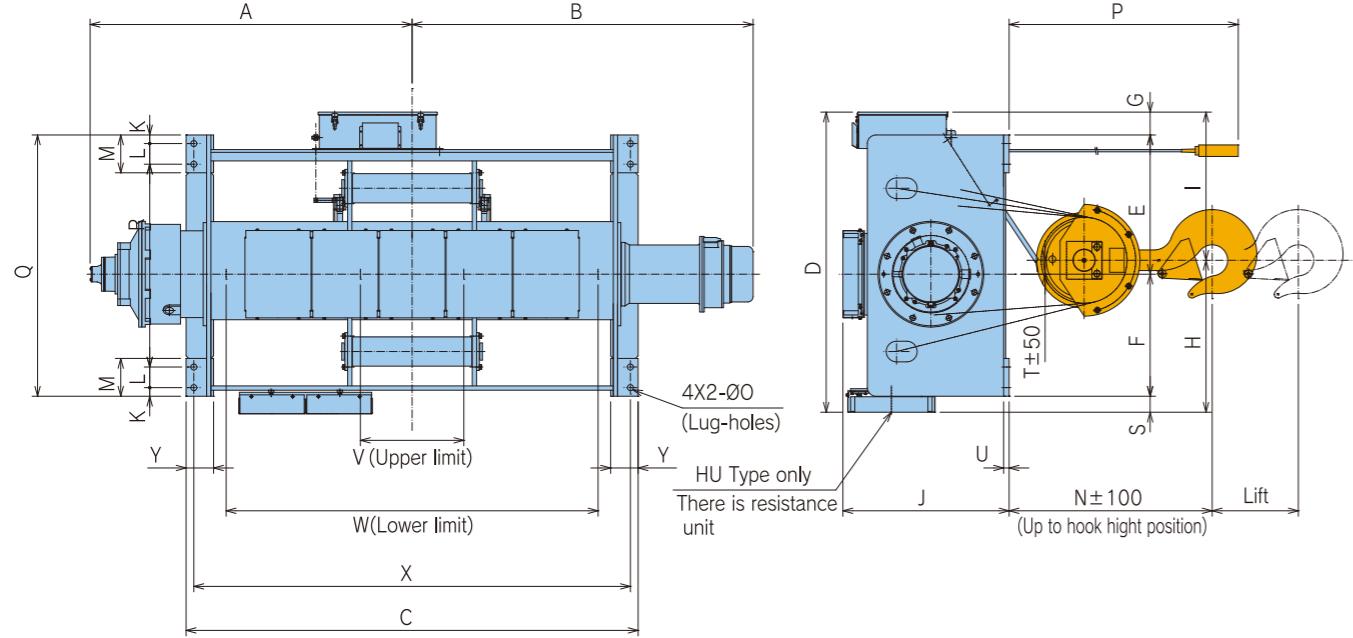
U2-15A · 20A · 30A



Model	U2-7.5A		U2-10A		U2-15A		U2-20A-HSH6	U2-30A-HSH6
	LSH6	HSH6	LSH6	HSH6	LSH6	HSH6		
Cap.(t)	7.5		10		15		20	30
Lift(m)	8	12	8	12	8	12	12	12
A	881	1006	949	1074	1045	1195	1243	1456
B	1004	1129	959	1084	1085	1235	1235	1284
C	493		531		633		663	713
D	920	1170	920	1170	960	1260	1260	1380
E	1010	1260	1010	1260	1080	1380	1380	1480
F	140		150		170		170	200
G	370		370		500		500	620
H	470		490		630		640	770
K	497		500		458		470	457
L	290		310		370		395	435
M	245		265		443		468	522
N	580		670		810		870	960
O	35		35		47		47	54
P	8000	12000	8000	12000	8000	12000	12000	12000
R	100		120		130		140	150
U	31		35		41		41	49
X	188		218		275		308	320
Y	152		220		220		220	220
Z	50		53		70		70	80
Weight(kg)	700	770	1050	1150	1500	1650	2000	3300
Hook block weight(kg)	80		100		190		280	380

# Frame mounted Type U2・HU2 (40t)

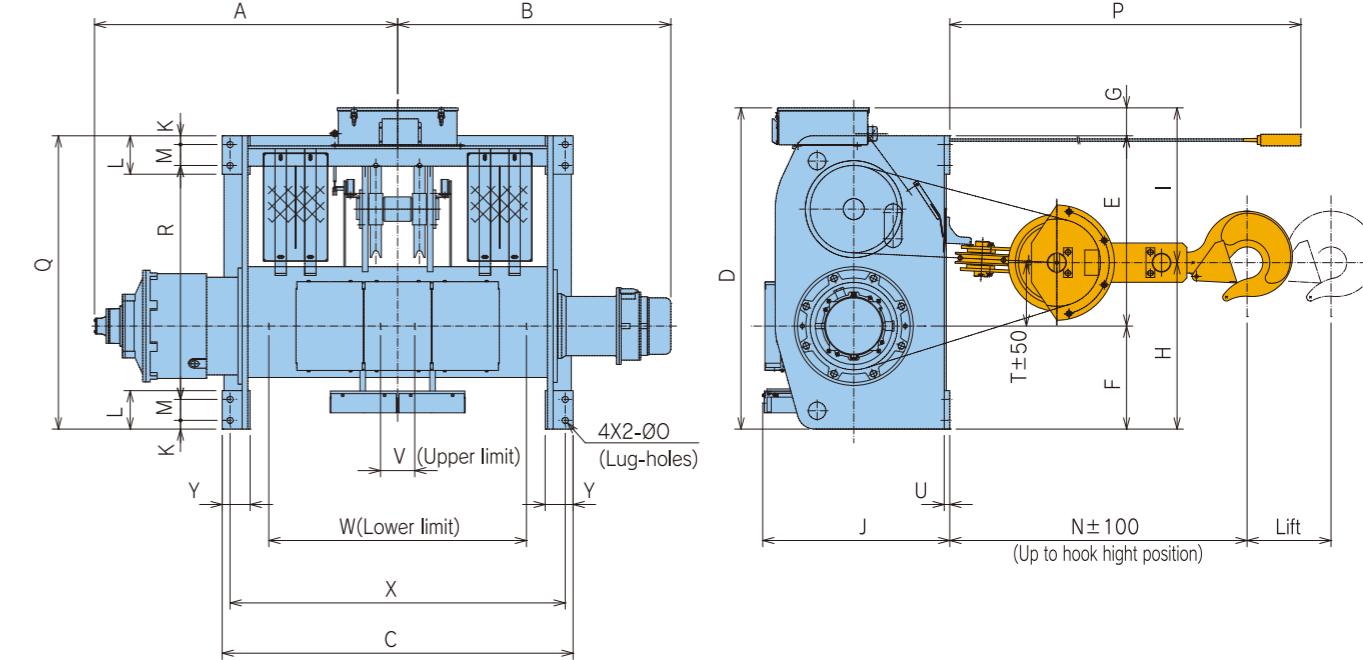
U2-40A, HU2-40A



Model	U2-40A		HU2-40A	
	LSH6	HSH6	LSH6	HSH6
Cap.(t)	40		40	
Lift(m)	6.5	11.5	6.5	11.5
A	1525	1875	1525	1875
B	1515	1865	1635	1985
C	1930	2630	1930	2630
D	1653		1746	
E	810		810	
F	710		710	
G	133		133	
H	791		884	
I	862		862	
J	967		967	
K	50		50	
L	120		120	
M	220		220	
N	1190		1190	
O	35		35	
P	7500	12500	7500	12500
Q	1520		1520	
R	1180		1180	
S	—		93	
T	81		81	
U	32		32	
V	602		602	
W	1485	2164	1485	2164
X	1840	2540	1840	2540
Y	160		160	
Weight(kg)	4400	4900	4500	5000
Hook block weight(kg)	640		640	

# Frame mounted Type U2・HU2 (45t)

U2-45A, HU2-45A

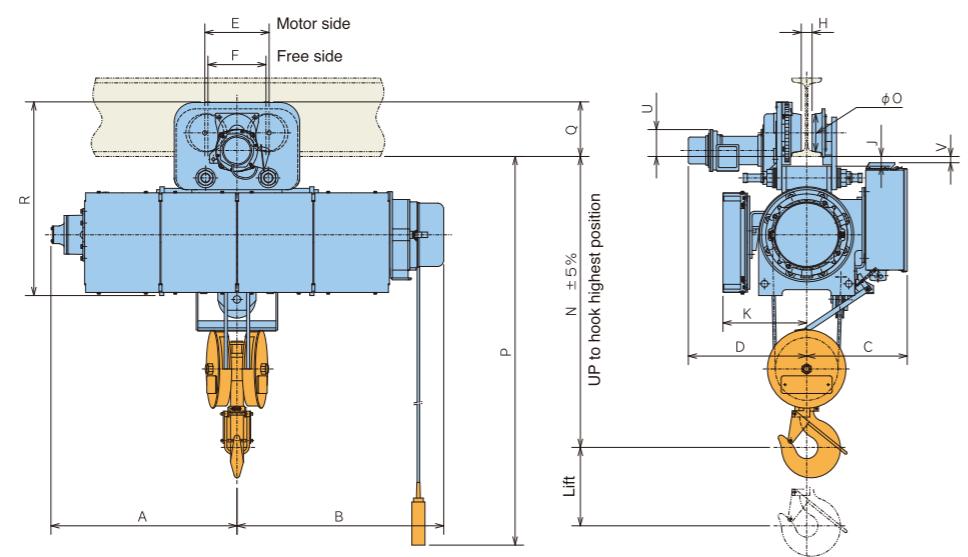


Model	U2-45A		HU2-45A	
	HSH6	HSH6	HSH6	HSH6
Cap.(t)	45		45	
Lift(m)	12.5	19	12.5	19
A	1740	2090	1740	2090
B	1565	1915	1685	2035
C	2010	2710	2010	2710
D	1840		1840	
E	1090		1090	
F	590		590	
G	160		160	
H	953		953	
I	887		887	
J	1072		1072	
K	50		50	
L	120		120	
M	220		220	
N	1725		1725	
O	35		35	
P	14000	20500	14000	20500
Q	1680		1680	
R	1340		1340	
T	363		363	
U	32		32	
V	196		196	
W	1476	2141	1476	2141
X	1920	2620	1920	2620
Y	160		160	
Weight(kg)	5600	6100	5700	6200
Hook block weight(kg)	590		590	

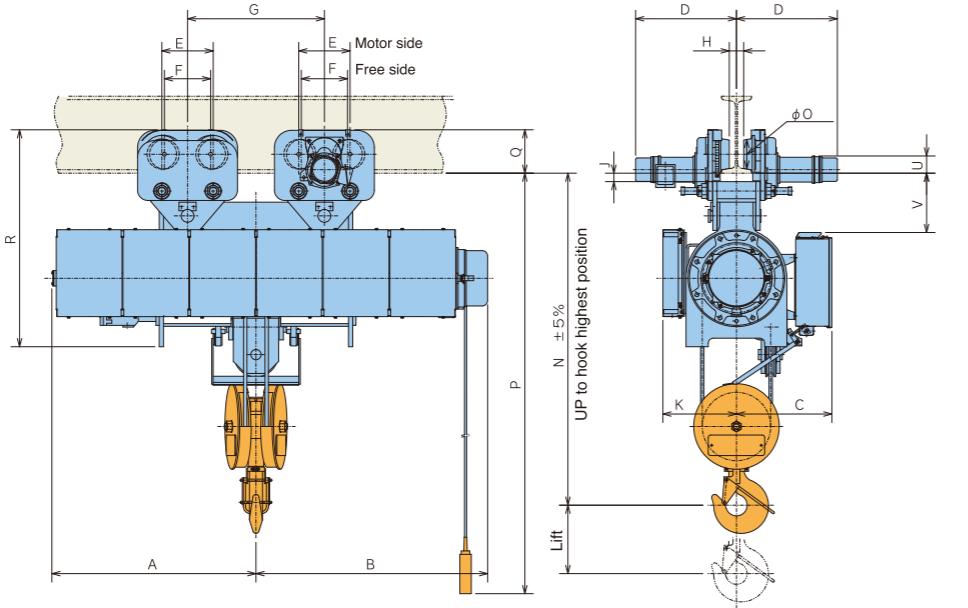
# Monorail Type (High speed type) **HU2** (10t·15t·20t)

※Contact us for  
400V class outline

**HU2-10A**



**HU2-15A · 20A**



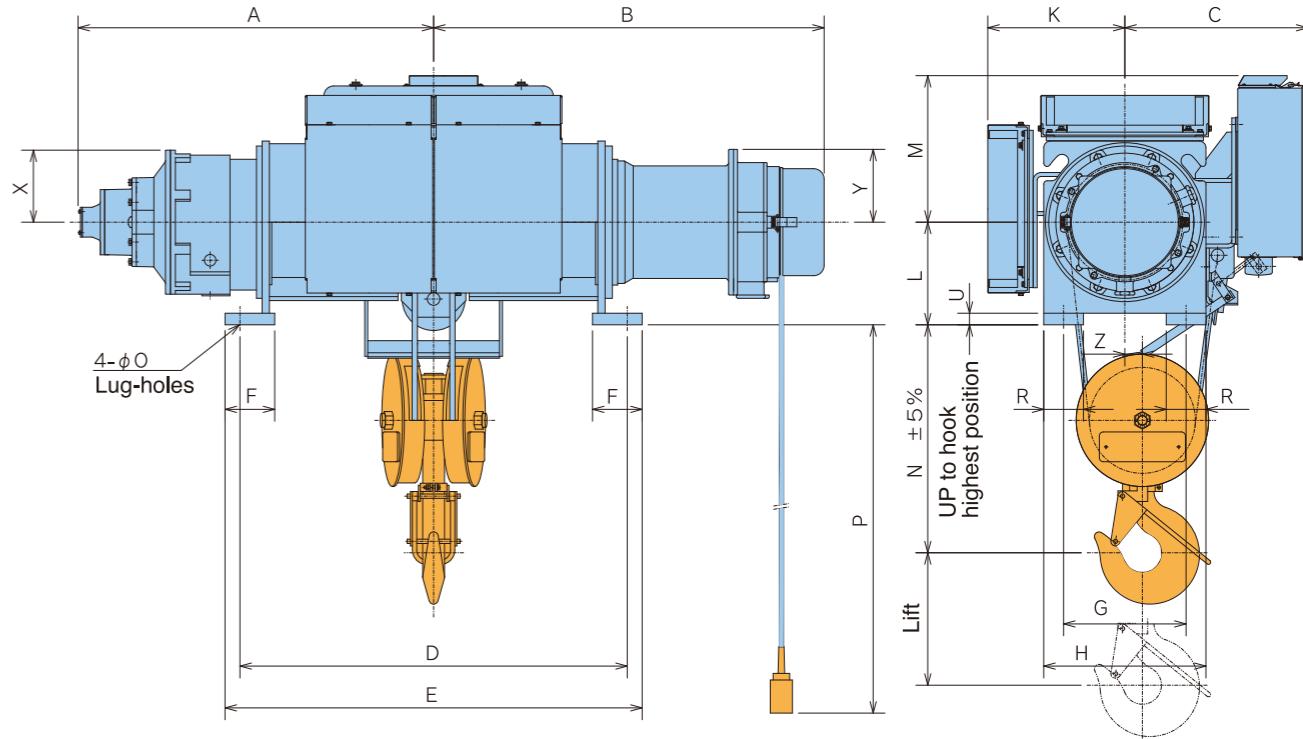
Model	HU2-10A				HU2-15A				HU2-20A			
	LMH6	LMS6	HMH6	HMS6	LMH6	LMS6	HMH6	HMS6	HMH6	HMS6		
Cap.(t)	10				15				20			
Lift(m)	8	12	8	12	8	12	12	12	12	12	12	12
A	949		1074		1045		1195		1243			
B	1055		1180		1205		1355		1355			
C	513				558				583			
E	328				300				328			
F	296				270				296			
G			620			800			800			
K	427				443				455			
N	1450				1930				2090			
O	193				173				193			
P	9000		13000		9000		13000		13000			
R	988				1268				1398			
Min.rad.curvature(m)	5.0	12.5	5.0	12.5	Straight line				Straight line			
Weight(kg)	1400		1500		2400		2550		3050			
Hook block weight(kg)	100				190				280			
I-Beam related dimensions	D	H	J	Q	U	V	D	H	J	Q	U	V
Applicable I-Beam(mm)	400X150X12.5	604	54	49	279	141	32					
	450X175X13	617	78	49	279	141	32	590	85	49	254	117
	600X190X13	624	94	50	278	140	33	598	100	50	253	116

Note Applicable I-Beam =Standard

# Frame mounted (High speed type) **HU2** (10t·15t·20t·30t)

※Contact us for  
400V class outline

**HU2-10A · 15A · 20A · 30A**

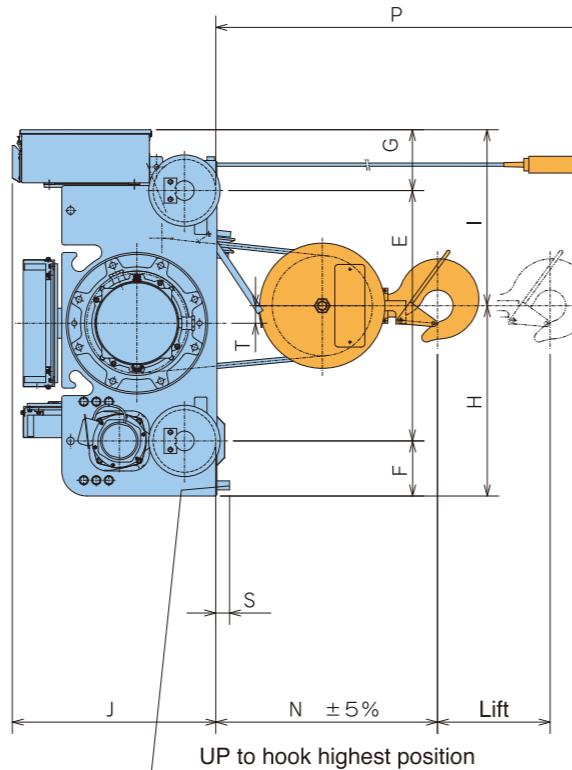
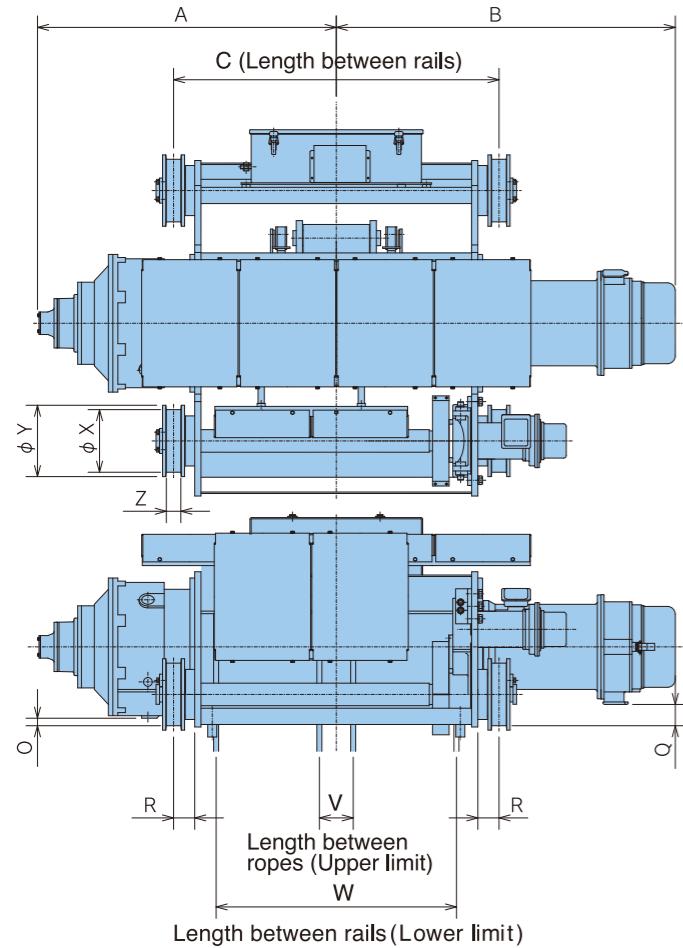


Model	HU2-10A		HU2-15A		HU2-20A		HU2-30A	
	LSH6	HSH6	LSH6	HSH6	HSH6	HSH6	HSH6	HSH6
Cap.(t)	10		15		20		30	
Lift(m)	8	12	8	12	8	12	12	12
A	949	1074	1045	1195	1243	1243	1456	1456
B	1055	1180	1205	1355	1355	1355	1405	1405
C	553			633			663	713
D	920	1170	960	1260	1260	1260	1380	1380
E	1010	1260	1080	1380	1380	1380	1480	1480
F	150			170			170	200
G	370			500			500	620
H	490			630			640	770
K	414			458			470	567
L	310			370			395	435
M	443			443			468	522
N	670			810			870	960
O	35			47			47	54
P	8000	12000	8000	12000	12000	12000	12000	12000
R	120			130			140	150
U	35			41			41	49
X	302 (to resister)		218		275		308	320
Y	220			220			220	220
Z	53			70			70	80
Weight(kg)	1200	1300	1700	1850	2200	2200	3500	
Hook block weight(kg)	100		190		190		280	380

# Double rail Type(High speed type) **HU2** (10t·15t·20t·30t)

\*Contact us for  
400V class outline

**HU2-10A · 15A · 20A · 30A**

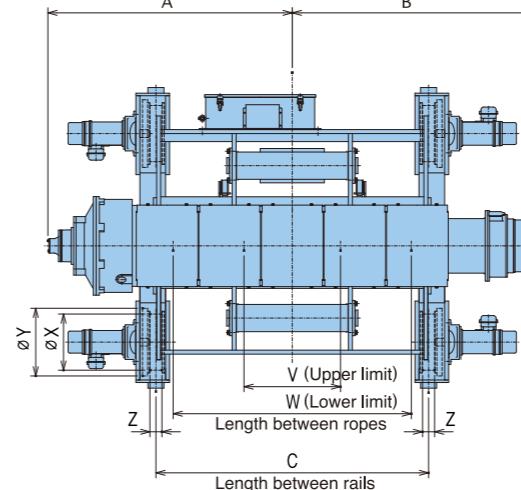


Model	HU2-10A				HU2-15A				HU2-20A		HU2-30A							
	LRH6	LRS6	HRH6	HRS6	LRH6	LRS6	HRH6	HRS6	HRH6	HRS6	HRH6	HRS6						
Cap.(t)	10				15				20		30							
Lift(m)	8	12			8	12			12	12								
A	949	1074			1045	1195			1243	1456								
B	1055	1180			1205	1355			1355	1405								
C	950	1200			1000	1300			1300	1400								
E	840				1000				1045		1190							
F	170				220				220		220							
G	253				243				248		246							
H	613				760				790		850							
I	650				703				723		806							
J	753				813				824		868							
N	710				860				910		1020							
O	38				30				32		15							
P	8000	12000			8000	12000			12000	12000								
Q	30				85				120		115							
R	82				84				84		89							
S	55				55				55		45							
T	53				70				70		80							
V	100	100			110	135			125	150								
W	620	870			660	960			945	990								
X	190				250				250		250							
Y	225				285				285		285							
Z	52				58				58		73							
Weight(kg)	1450	1560			2200	2400			2800	3900								
Hook block weight(kg)	100	190			280	380			370	370kg rails or 65mm steel square bars								
Applicable Rail	15kg rails or 44mm steel square bars				22kg rails or 50mm steel square bars				37kg rails or 65mm steel square bars									

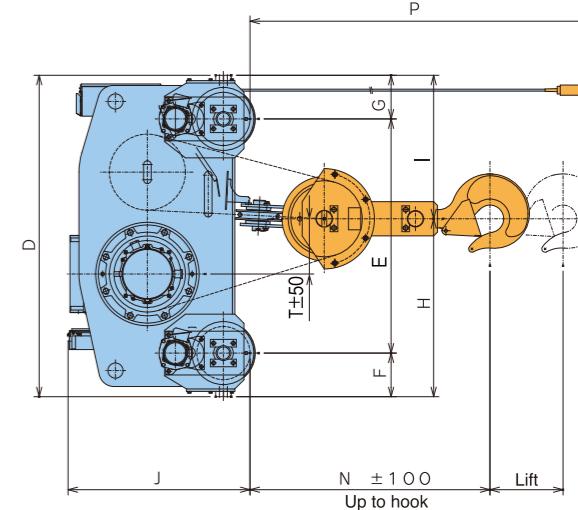
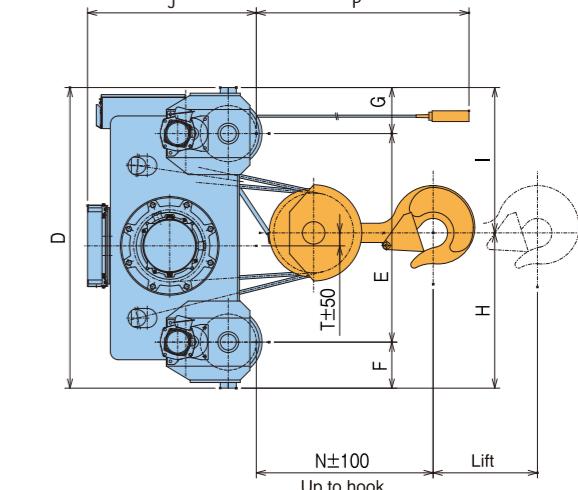
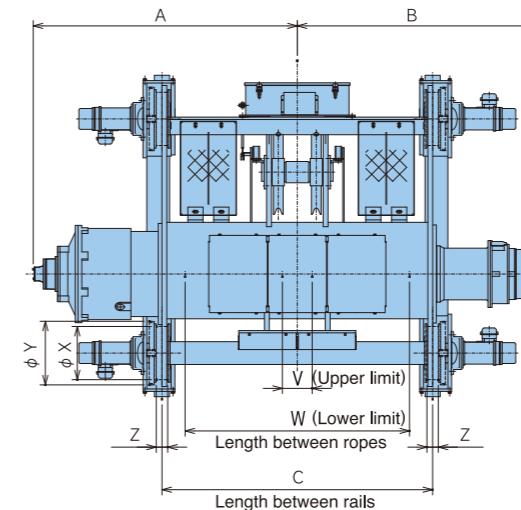
# Double rail Type(High speed type) **U2・HU2** (40t·45t)

\*Contact us for 400V class outline

**U2-40A, HU2-40A**



**U2-45A, HU2-45A**



Model	U2-40A		HU2-40A		U2-45A		HU2-45A	
	LRH6	HRH6	LRH6	HRH6	HRH6	HRH6	HRH6	HRH6
Cap.(t)	40	40	40	40	45	45	45	45
Lift(m)	6.5	11.5	6.5	11.5	12.5	19	12.5	19
A	1525	1875	1525	1875	1740	2090	1740	2090
B	1515	1865	1635	1985	1565	1915	1685	2035
C	1700	2400	1700	2400	1780	2480	1780	2480
D	1874				1874			
E	1300				1300			
F	287				287			
G	287				287			
H	968				968			
I	906				906			
J	1055				1055			
N	1110				1110			
P	7500	12500	7500	12500	14000	20500	14000	20500
T	81				81			
V	602							

# S Type Series

Strong type High speed type 1/2t~60t

**Traverse brake**  
Disc type DC brake  
The brake torque can be adjusted.

**Tie Bolts**  
Secured by a grooved nut and split pin.

**Electromagnetic brake**  
Not exceeding 5t: Disc braked with auto-adjustment device.  
More than 7.5t: Disc brake that allows to adjust a gap easily.

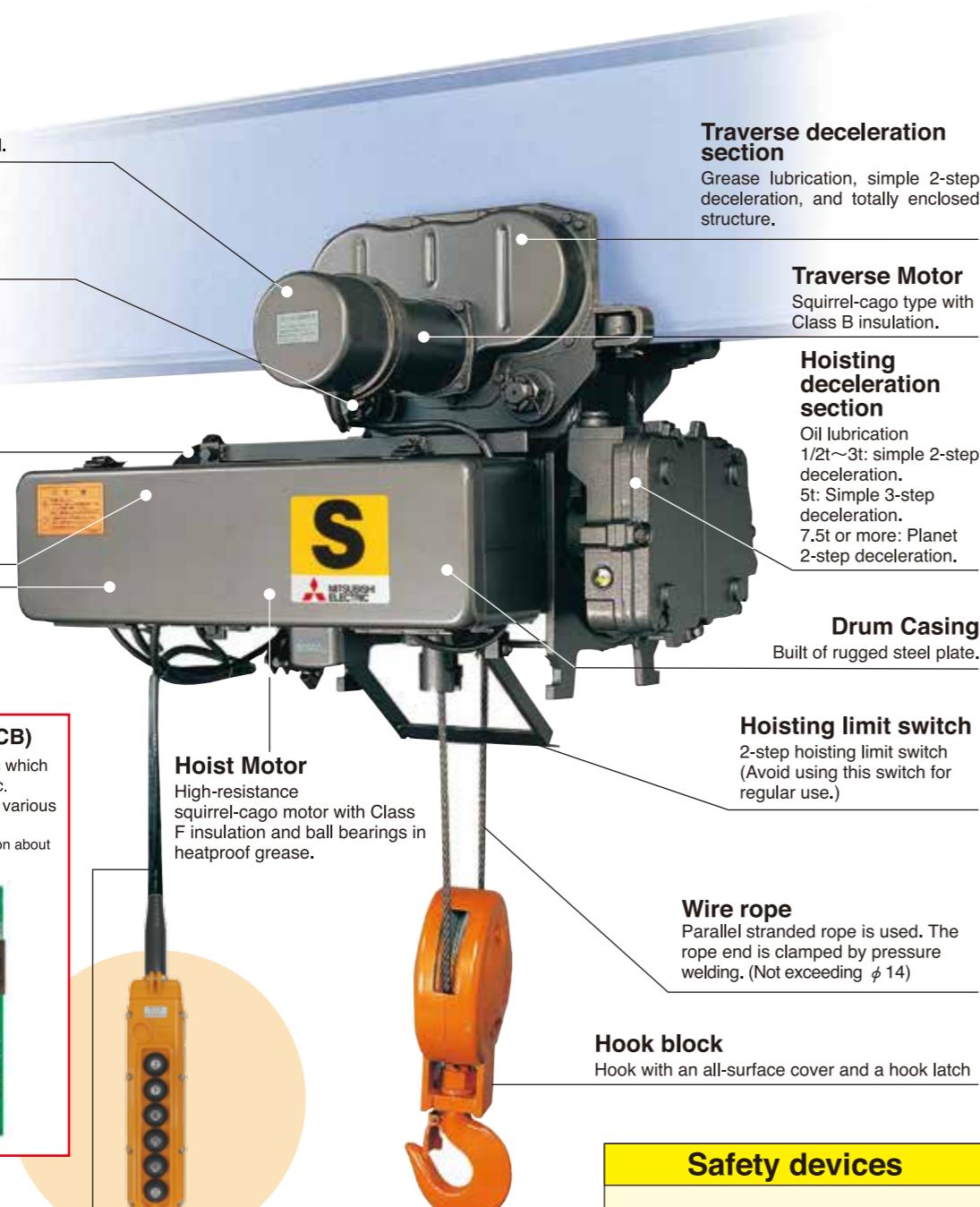
**Control box**  
The cover can be opened and closed by one-touch operation.

**Safety monitor(OLM PCB)**  
• OLM PCB has safety functions which are overload alarm function etc.  
• 7-segment LED indicator ease various settings and history check.  
(Please refer [safety function] section about other functions.)



**Cable for push button switch**  
Vibration-proof cable  
(With a built-in protective wire)

**Push button switch**  
Plastic case



## Safety Function

### Overload monitor system(O.L.M.)

- Overload is electrically detected.(at only hoisting operation)
- The buzzer is factory-set to activate at a 125% load.
- However, the buzzer activates at 100% or lower loads in certain environments, based on the power voltage etc. It is not trouble, please make the adjustment to turn the volume.

### Number of starts • Operating hours display

- Checking the usage conditions which are from the point of purchase. Having erasable operating hours and number of starts counter.
- The time to change the consumptive parts is visible, and contributes to preventive maintenance.

### Failure history display

- Checking a monitor if a hoist stops operation, it contributes to identify the reason for the failure.

S type offers the best lifting speed, power and durability in this class.

## Specifications

Type	Capacity(t)	Lift(m)	Wire rope	Hoisting				Traversing													
				Speed m/s (m/min)		Motor				Speed m/s (m/min)		Motor				Speed m/s (m/min)		Motor			
				50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
S	1/2	6	6×W (19) B class JISG3525	0.183 (11)	0.217 (13)	1.0	1.2	6.9	6.5	0.35 (21)	0.417 (25)	0.5 (21)	0.6 (25)	3.2 (21)	3.1 (25)	4 (4)	— — — — — — — — — — — — — —	— — — — — — — — — — — — — —			
	1			0.14 (8.4)	0.167 (10)	2.0	2.4	12.6	12.4												
	2			4.1	4.9	25.5	27.5														
	2.8			4.4	5.3	27	28.5														
	3			6×Fi (29) B class JISG3525	0.112 (6.7)	0.133 (8)	6.2	7.5	31	35.5											
	5			0.0967 (5.8)	0.117 (7)	8.3	10	37	44												
	7.5			0.0833 (5)	0.1 (6)	10	12	51	55												
	10			71	75																
	15			75	83																
	20			77	84																
	30			75	83																
	40			77	84																
	45			75	83																
	60			77	84																

\*1 40t has 8falls and 45t has 6falls.(Regarding 60t, please inquire separately)

\*2 Please contact us for 60t separately

\*3 Rope specification of 1t 2falls is 6×Fi(29)

● Power supply ..... 3-phase 200V 50/60Hz control 200V, 220V 60Hz control 220V  
(400V class is also available) ··· 3-phase 400V 50/60Hz control 200V, 440V 60Hz control 220V  
3-phase 380V 50Hz control 48V (100V and 24V are also available)

● Operating method ..... Push button switch operations

Suspended type	1/2~3t	5~45t
Frame mounted type	2 Points	4 Points
Motor operated traversing hoist	UD	ON OFF UD
	6 Points	8 Points
	U D E W S N	ON OFF U D E W S N

● Rating ..... 30 min.(JIS C 9620)

● Power supply system ..... Both trolley feeding and cable feeding are available. However, neither trolley nor cable is attached.

● Enclosure ..... Simplified outdoor type (JIS C0920, equivalent to IP44)

● Applicable standard ..... JIS C 9620 electric hoist/crane structure standard

● Color coating ..... Main body: Metallic gray (Equivalent to Munsell N4.0)  
Hook block: Munsell 7.5YR7/14

Pushbutton: Equivalent to Munsell 7.5YR7/13

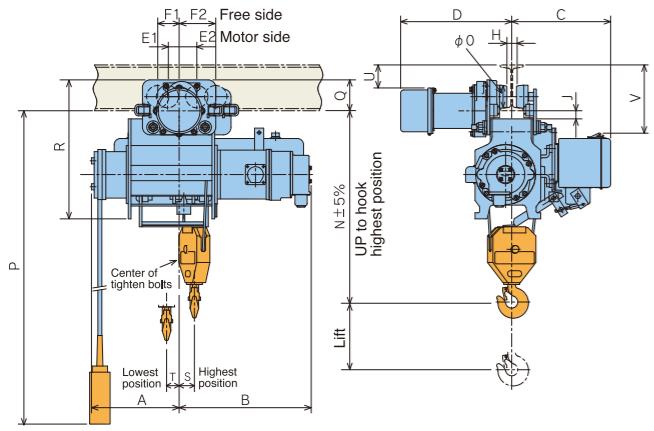
● Ambient air temperature ..... -10°C to 40°C (Non congelation)

● Ambient air humidity ..... 90% or less (Non condensing)

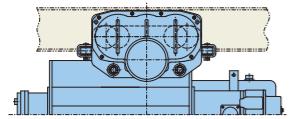
## Standard specifications

# Monorail Type S (1/2t·1t·2.8t·3t·5t)

S-1/2



(Shape of S-1/2-HM)



Note: In the case of trolley electric supply type, balance weight is required.

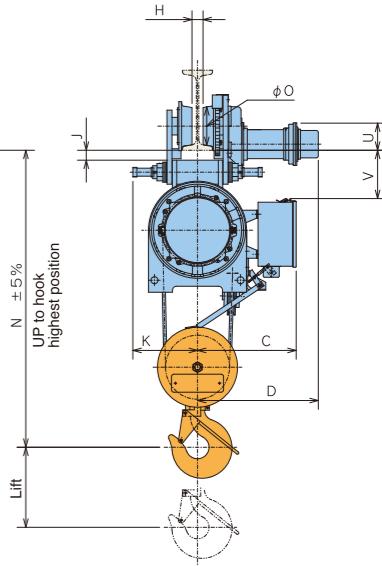
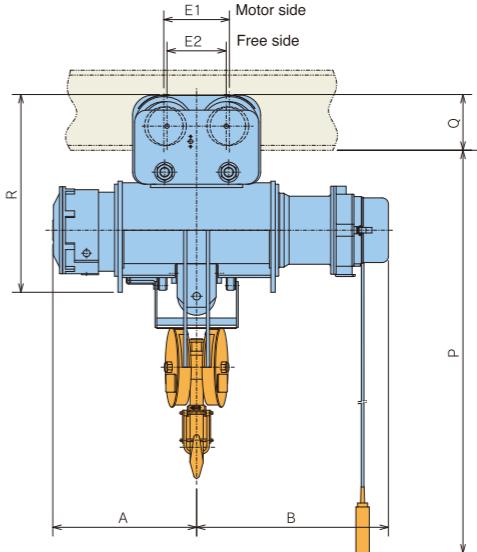
Model	S-1/2				S-1		S-2		S-2.8(3)				S-5																										
	LM2		HM2		LM2	HM2	LM2	HM2	LM3	HM3	LM3	HM3	LM3	HM3																									
Cap.(t)	1/2				1	2	2	3	2.8 (3)	5																													
Lift(m)	6	12	6	12	6	12	6	12	8	12																													
A	287	457	287	474	322	479	341	510	646	771																													
B	433	473	518	551	563	593	610	641	830	955																													
C	324		345		383		408		410																														
E1	38	100	100		105		105																																
E2	58	100	100		105		105																																
F1	70	140	140		135		135																																
F2	120	140	140		135		135																																
K	—		167		210		216		265																														
N	625	635	735		875		1045		996																														
O	73	80	80		114		114		125																														
P	6000	12000	6000	12000	6000	12000	6000	12000	8000	12000																													
R	455	505	545		632		720		766																														
S	50	93	71	105	58	101	60	97	—																														
T	58	123	42	119	49	113	47	115	—																														
Min.rad.curvature(m)	1.2 (4.0)	1.8 (7.0)	1.8 (7.0)		1.8 (5.0)		2.0		5.0																														
Weight(kg)	115	135	165	180	280	305	375	410	560	630																													
Hook block weight(kg)	4.5				7.5		15		27		42																												
I-Beam related dimensions	D	H	J	Q	U	V	D	H	J	Q	U	D	H	J	Q	U																							
Applicable I-Beam(mm)	200×100×7*1	376	54	26	101	125	271	372	48	33	140	155	283	372	48	33	140	155	453	40	41	167	140	—	—														
Applicable I-Beam(mm)	250×125×7.5							385	74	31	142	203	331	385	74	31	142	203	465	64	39	169	188	465	64	34	169	188	—										
Applicable I-Beam(mm)	300×150×8																		478	90	38	170	237	—	—	—	—												
Applicable I-Beam(mm)	300×150×11.5																		478	90	29	179	228	478	90	24	179	228	512	72	31	189	219	524	96	27	193	365	
Applicable I-Beam(mm)	450×175×13																																						
Applicable I-Beam(mm)	600×190×13																																						

Note:rad.cur( ) at I-Beam ●S-1/2, S-1···150×75×5.5 ●S-2···200×100×7 Note Applicable I-Beam ■=Standard ■=required special attachment

\*1 150×75×5.5 is applicable

# Monorail Type S (7.5t·10t·15t·20t)

S-7.5 · 10



S-15 · 20

Model	S-7.5				S-10				S-15				S-20				
	LM	HM	LM	HM	LM	HM	LM	HM	LM	HM	LM	HM	LM	HM	LM	HM	
Cap.(t)	7.5		10		15		20										
Lift(m)	8	12	8	12	8	12	8	12	8	12	8	12	8	12	8	12	
A	669	794	719	844	799	949	999										
B	1004	1129	959	1084	1085	1235	1235										
C	458		493		558		583										
E1	300		328		300		328										
E2	270		296		270		296										
E3	—		—		620		800										
K	314		323		—		—										
N	1270		1450		1930		2090										
O	173		193		173		193										
P	8000	12000	9000	13000	9000	13000	9000	13000	9000	13000	9000	13000	9000	13000	9000	13000	
R	903		988		1268		1398										
Min.rad.curvature(m)	5.0		5.0		Straight line		Straight line										
Weight(kg)	850	920	1200	1300	2100	2250	2100	2250	2100	2250	2100	2250	2100	2250	2100	2250	
Hook block weight(kg)	80		100		190		280										
I-Beam related dimensions	D	H	J	Q	U	V	D	H	J	Q	U	D	H	J	Q	U	V
Applicable I-Beam(mm)	400×150×12.5	578	60	49	254	117	181	604	54	49	279	141	241	—	—	—	—
Applicable I-Beam(mm)	450×175×13	590	85	49	254	117	181	616	78	49	279	141	241	590	85	49	254
Applicable I-Beam(mm)	600×190×13	598	100	50	253	116	182	624	94	50	278	140	242	598			

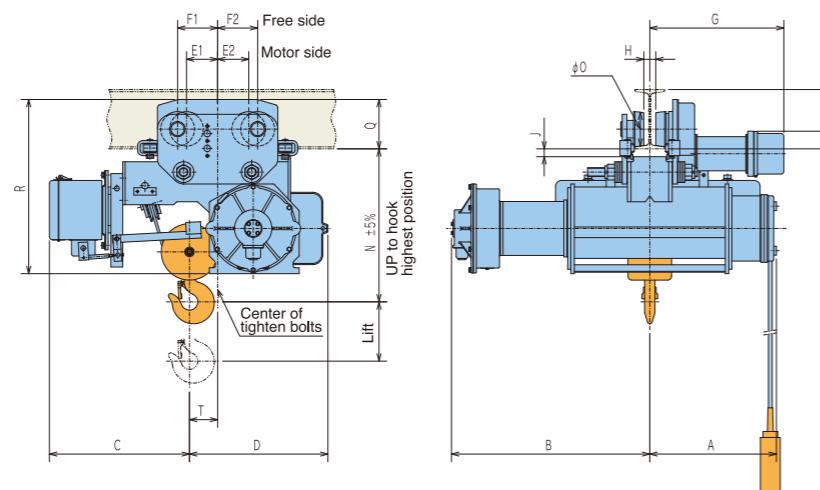
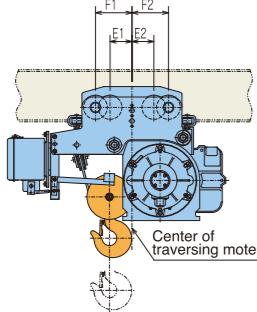
# Low-head Type

# S

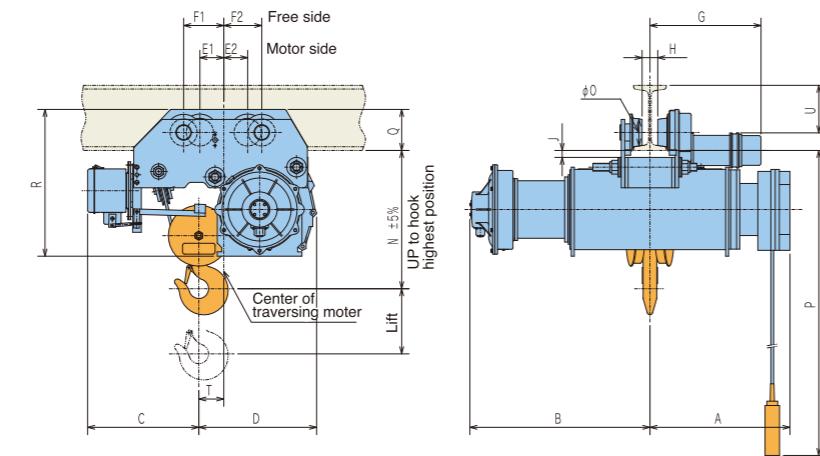
(1/2t·1t·2t·2.8t·3t·5t)

S-1/2 · 1 · 2 · 2.8 · 3

(Shapes of S-2.8t and 3t)



S-5



Model	S-1/2-LD2		S-1		S-2		S-2.8 (3)		S-5	
			LD2	HD2	LD2	HD2	LD3	HD3	LD3	HD3
Cap.(t)	1/2		1		2		2.8 (3)		5	
Lift(m)	6		6		12		6		12	
A	407		429		597		427		605	
B	528		616		784		668		847	
C	371		423				473		490	
D	272		356				467		558	
E1	58		100				105		105	
E2	38		100				105		110	
F1	120		140				135		175	
F2	70		140				135		175	
N	345		410				505		535	
O	73		80				114		114	
P	6000		6000		12000		6000		12000	
R	400		495				588		643	
T	66		58				95		108	
Min.rad.curvature(m)	1.2 (4.0)		1.8 (7.0)		1.8 (5.0)		2.0		6.3	
Weight(kg)	130		195		205		295		330	
Hook block weight(kg)	5.5		8				15		25	
I-Beam related dimensions	G	H	J	Q	U	G	H	J	Q	U
200×100×7*	376	54	20	101	125	372	48	21	140	155
250×125×7.5						453	40	26	167	140
300×150×8						—				
300×150×11.5	—					465	64	24	169	188
450×175×13	—					465	64	26	169	188
600×190×13	—					478	90	23	170	237

Note.rad.cur( ) at I-Beam ● S-1/2,S-1···150×75×5.5 ● S-2···200×100×7

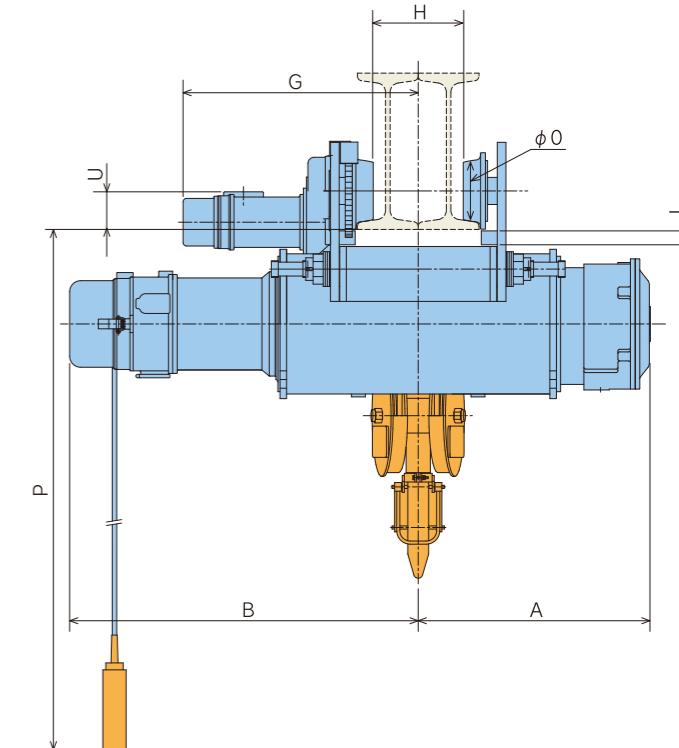
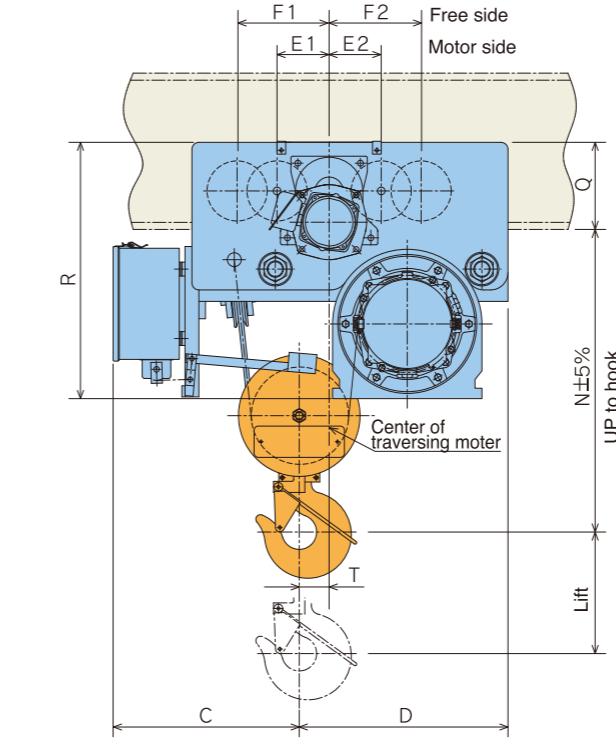
\*1 150×75×5.5 is applicable

# Low-head Type

# S

(7.5t·10t)

S-7.5 · 10



Dimensions(mm)	Model					S-7.5				S-10					
	Cap.(t)		LD		HD	Cap.(t)		LD		HD		LD			
Lift(m)	8		12			7.5		8		12		10			
A	669		794					719		844					
B	1004		1129					959		1084					
C	536										619				
D	601										689				
E1	150										528				
E2	150										162				
F1	265										604				
F2	265										164				
N	880										990				
O	173										193				
P	8000		12000					8000		12000					
R	741										873				
T	86										363				
Min.rad.curvature(m)	Straight line					Straight line				Straight line					
Weight(kg)	950		1020					1500		1600					
Hook block weight(kg)	80					100				100					
I-Beam related dimensions	G	H	J	Q	U	G	H	J	Q	U	G	H	J	Q	U
Applicable I-Beam(mm)	450×175×13 2rails		678	257	49	254	109	711	253	49	279	141			
	600×190×13 2rails		693	288	50	253	108	726	284	50	278	140			

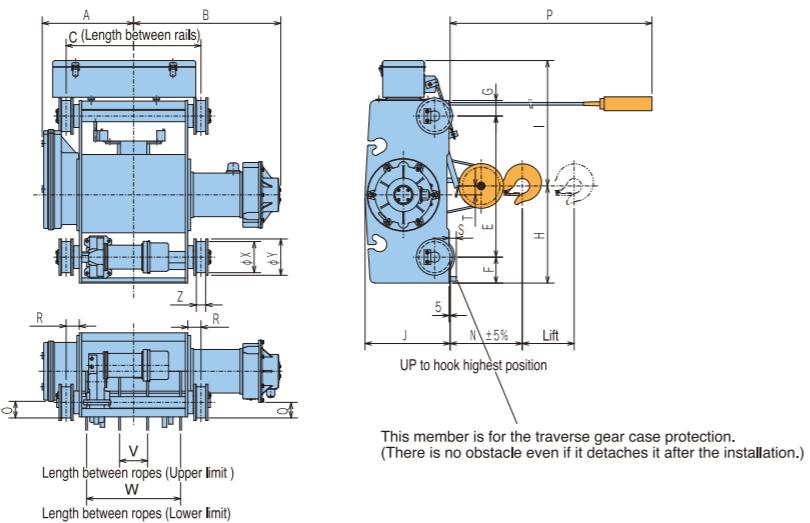
Note Applicable I-Beam =Standard

# Double rail Type

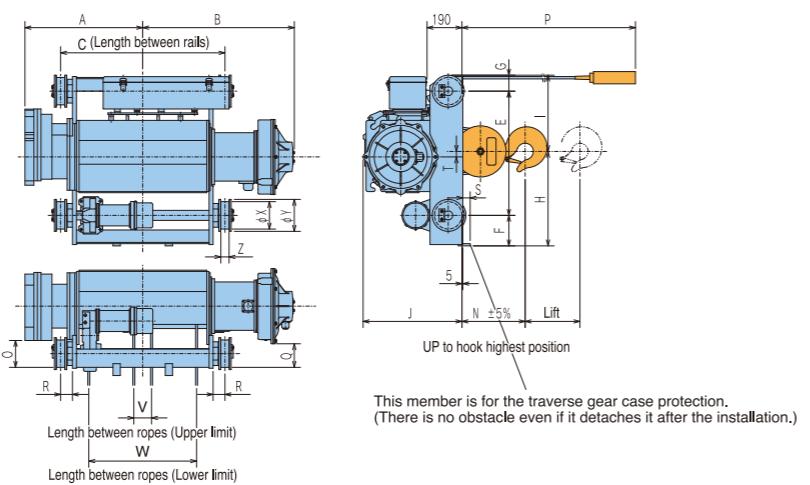
**S**

(2.8t·3t·5t)

S-2.8 · 3



S-5



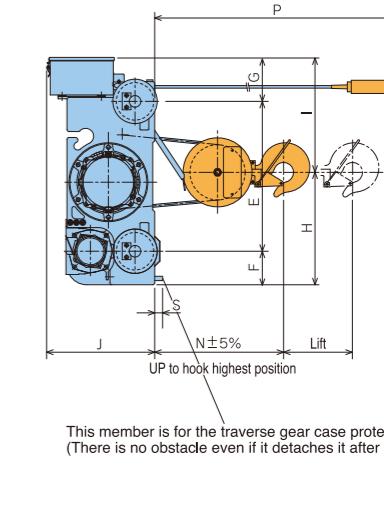
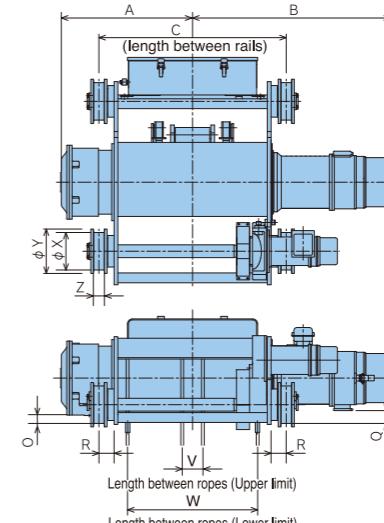
Model	S-2.8(3)		S-5	
	LR3A	HR3A	LR3A	HR3A
Cap.(t)	2.8 (3)		5	
Lift(m)	6	12	8	12
A	440	590	646	771
B	711	861	830	955
C	650	950	900	1150
E	680		680	
F	125		167	
G	75		88	
H	468		517	
I	605		418	
J	410		541	
N	345		346	
O	52		125	
P	6000	12000	8000	12000
Q	75		129	
R	63		65	
S	35		40	
T	43		30	
V	113	105	97	100
W	433	733	590	840
X	150		150	
Y	175		175	
Z	45		45	
Weight(kg)	425	475	660	740
Hook block weight(kg)	25		42	
Applicable Rail	12kg rails or 38mm steel square bars			

# Double rail Type

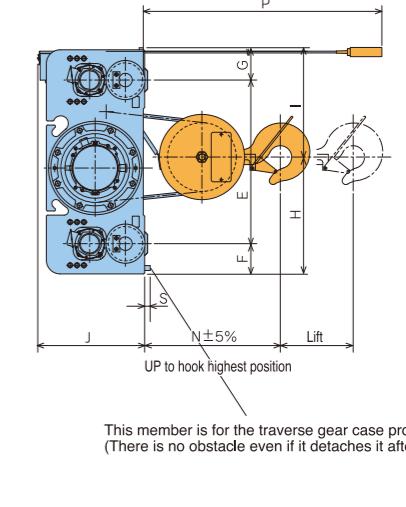
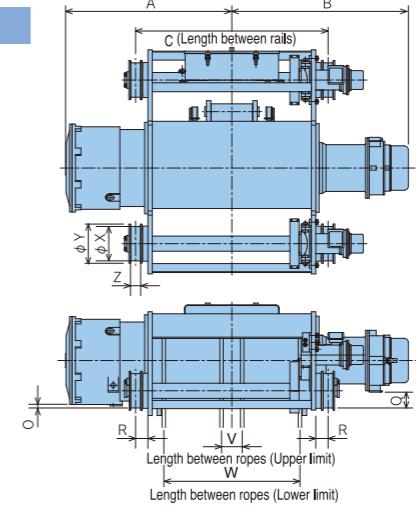
**S**

(7.5t·10t·15t·20t·30t)

S-7.5 · 10 · 15 · 20



S-30



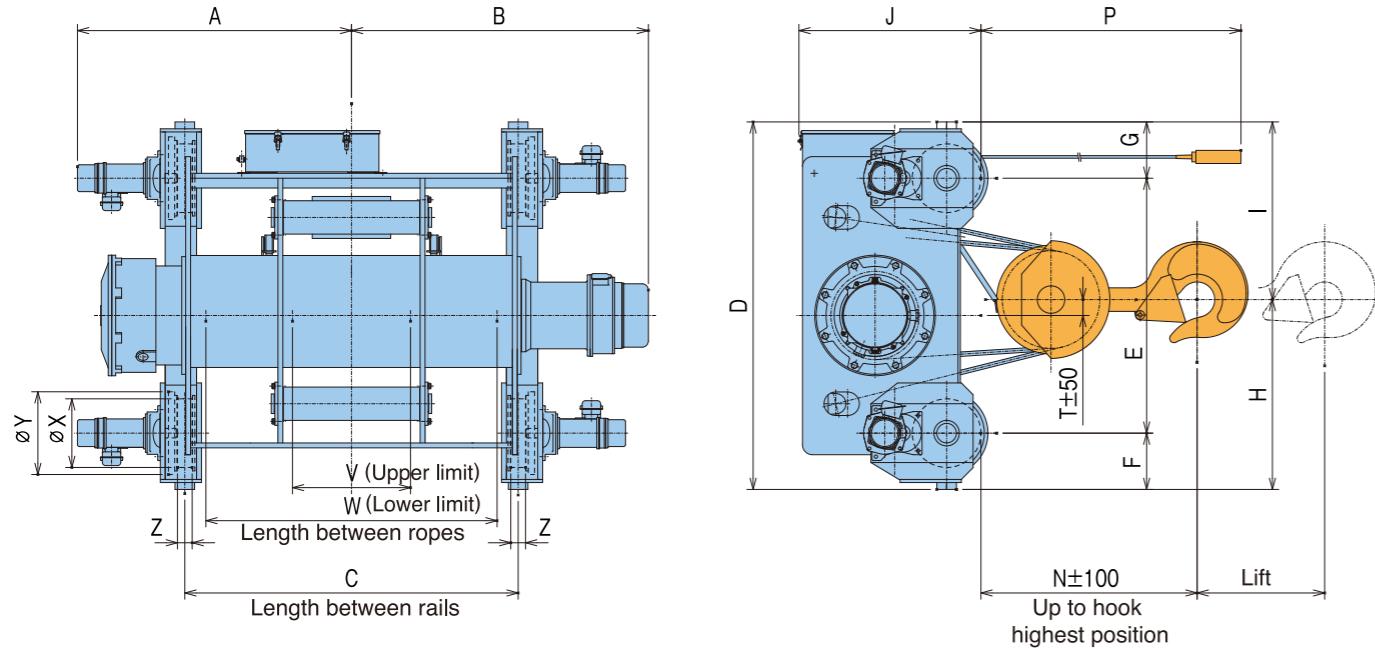
Model	S-7.5		S-10		S-15		S-20-HR	S-30-HR
	LR	HR	LR	HR	LR	HR		
Cap.(t)	7.5		10		15		20	30
Lift(m)	8	12	8	12	8	12	12	12
A	669	794	719	844	799	949	999	1209
B	1004	1129	959	1084	1085	1235	1235	1285
C	950	1200	950	1200	1000	1300	1300	1400
E	760		840		1000		1045	1190
F	170		170		220		220	220
G	223		233		243		248	246
H	570		613		760		790	850
I	583		630		703		723	806
J	543		543		743		748	763
N	630		710		860		910	1020
O	40		38		30		32	15
P	8000	12000	8000	12000	8000	12000	12000	12000
Q	75		30		85		120	115
R	77		82		84		84	89
S	45		55		55		55	45
T	50		53		70		70	80
V	105	80	100	100	110	135	125	150
W	660	910	620	870	660	960	945	990
X	190		190		250		250	250
Y	225		225		285		285	285
Z	52		52		58		58	73
Weight(kg)	900	980	1250	1360	1900	2100	2500	3600
Hook block weight(kg)	80		100		190		280	380
Applicable Rail	15kg rails or 44mm steel square bars				22kg rails or 50mm steel square bars			
					37kg rails or 55mm steel square bars			

# Double rail Type

**S**

(40t)

**S-40**

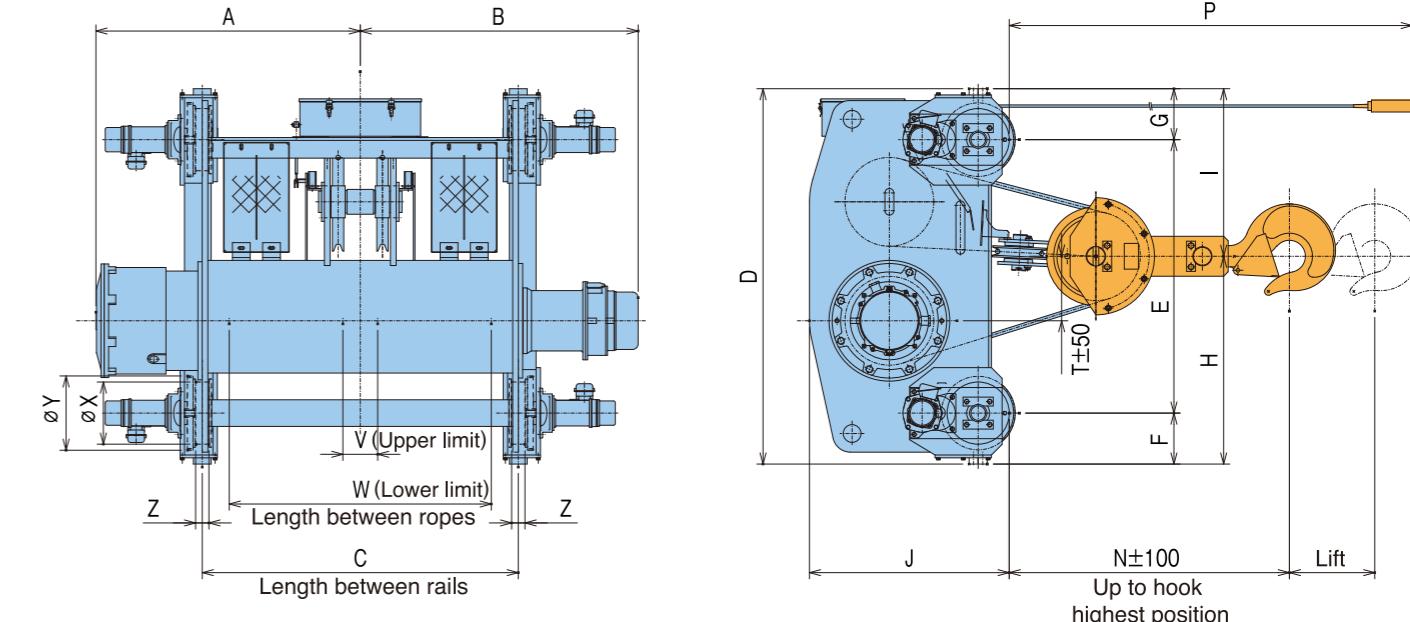


# Double rail Type

**S**

(45t)

**S-45**

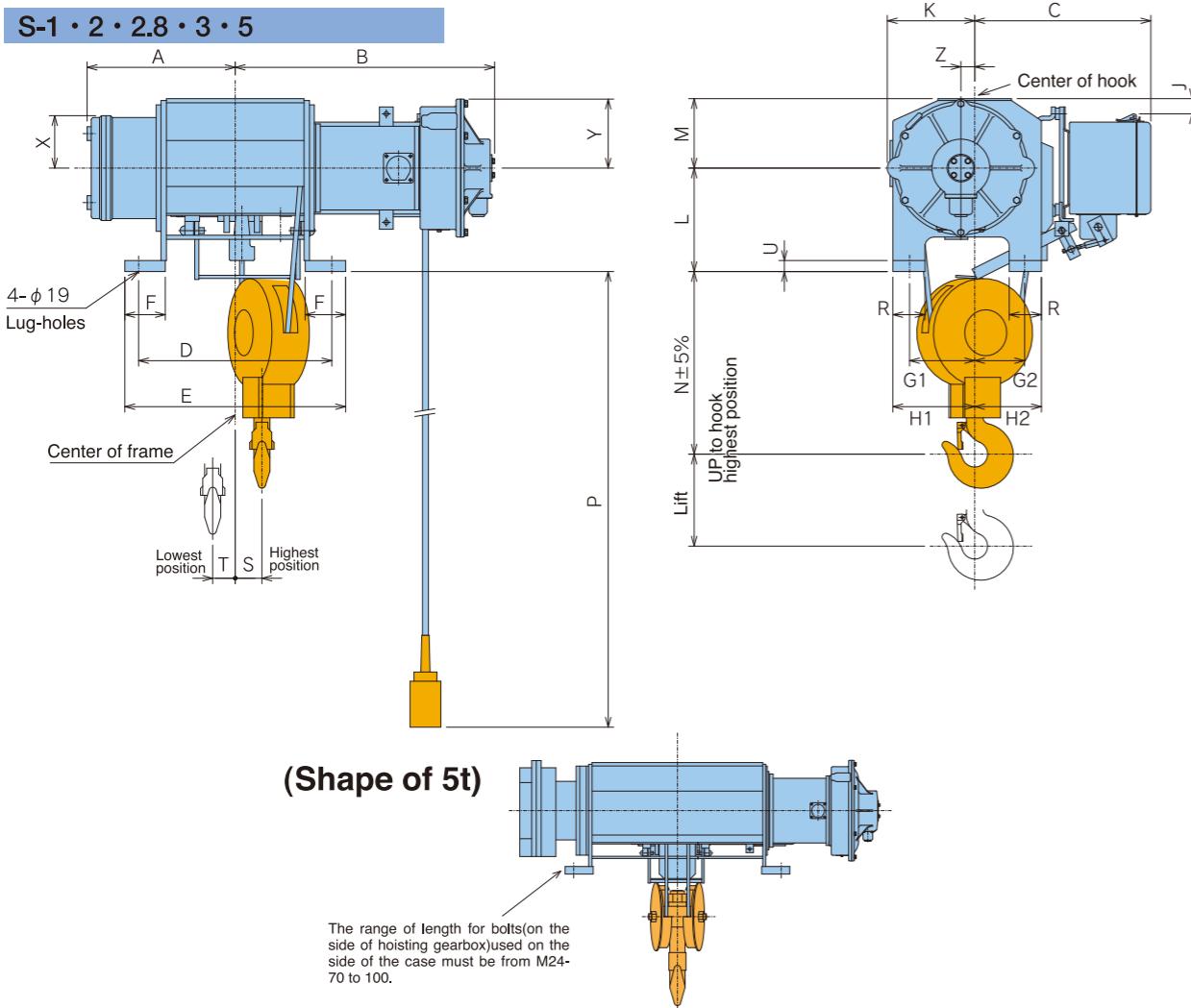


Model	S-40	
	LR	HR
Cap.(t)	40	
Lift(m)	6.5	11.5
A	1399	1749
B	1515	1865
C	1700	2400
D	1874	
E	1300	
F	287	
G	287	
H	968	
I	906	
J	930	
N	1110	
P	7500	12500
T	81	
V	602	
W	1485	2164
X	350	
Y	419	
Z	75	
Weight(kg)	4800	5300
Hook block weight(kg)	640	
Applicable Rail	37kg rails or 65mm steel square bars	

Model	S-45	
	HR	HR
Cap.(t)	45	
Lift(m)	12.5	19.0
A	1490	1840
B	1565	1915
C	1780	2480
D	2114	
E	1540	
F	520	
G	350	
H	807	
I	670	
J	1125	
N	1600	
P	14000	20500
T	637	
V	196	
W	1476	2141
X	350	
Y	419	
Z	75	
Weight(kg)	6000	6500
Hook block weight(kg)	590	
Applicable Rail	37kg rails or 65mm steel square bars	

# Frame mounted Type S

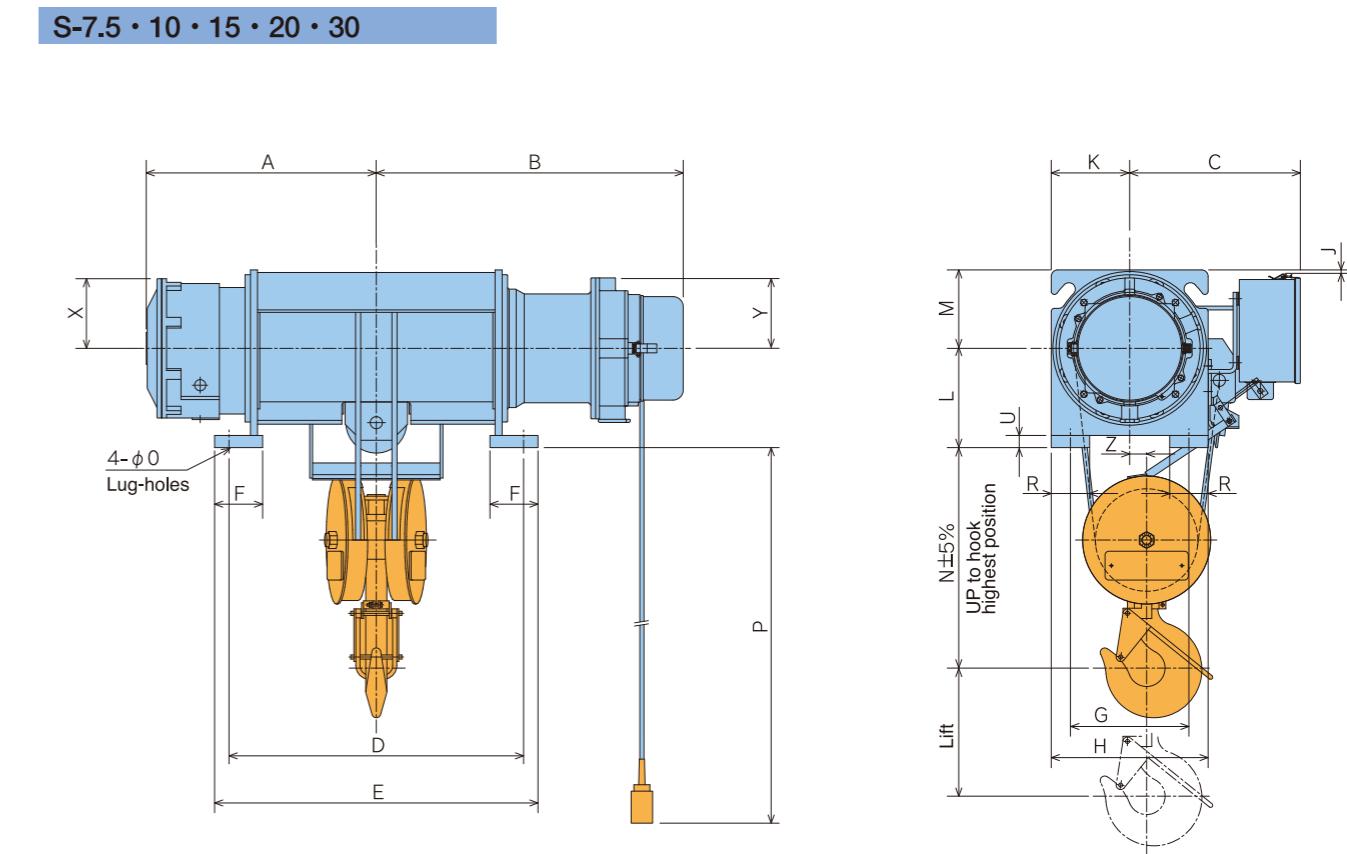
(1t · 2t · 2.8t · 3t · 5t)



Model	S-1		S-2		S-2.8(3)		S-5	
	LS2	HS2	LS2	HS2	LS3	HS3	LS3	HS3
Cap.(t)	1		2		2.8(3)		5	
Lift(m)	6	12	6	12	6	12	8	12
A	287	397	322	415	341	441	646	771
B	518	628	563	657	610	710	830	955
C	345		383		408		410	
D	385	605	420	605	430	630	850	1100
E	435	655	480	665	500	700	920	1170
F	75		88		99		115	
G1/G2	121/84		141/109		170/130		175/145	
H1/H2	151/114		178/145		210/170		220/190	
J	23		33		93		125	
K	167		190		216		236	
L	180		225		275		260	
M	136		151		181		206	
N	330		410		490		420	
O	15		19		24		28	
P	6000	12000	6000	12000	6000	12000	8000	12000
R	60		70		80		90	
S	71	182	58	165	60	166	—	—
T	42	42	49	49	47	47	—	—
U	18		24		27		31	
X	107		140		172		205	
Y	105		150		150		206	
Z	36		30		30		30	
Weight(kg)	115	135	175	215	305	345	510	580
Hook block weight(kg)	7.5		15		27		42	

# Frame mounted Type S

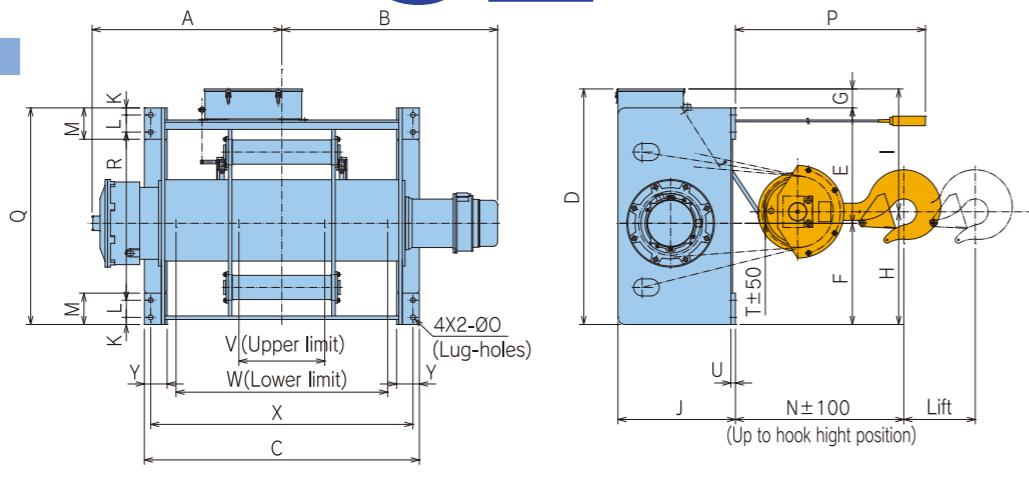
(7.5t · 10t · 15t · 20t · 30t)



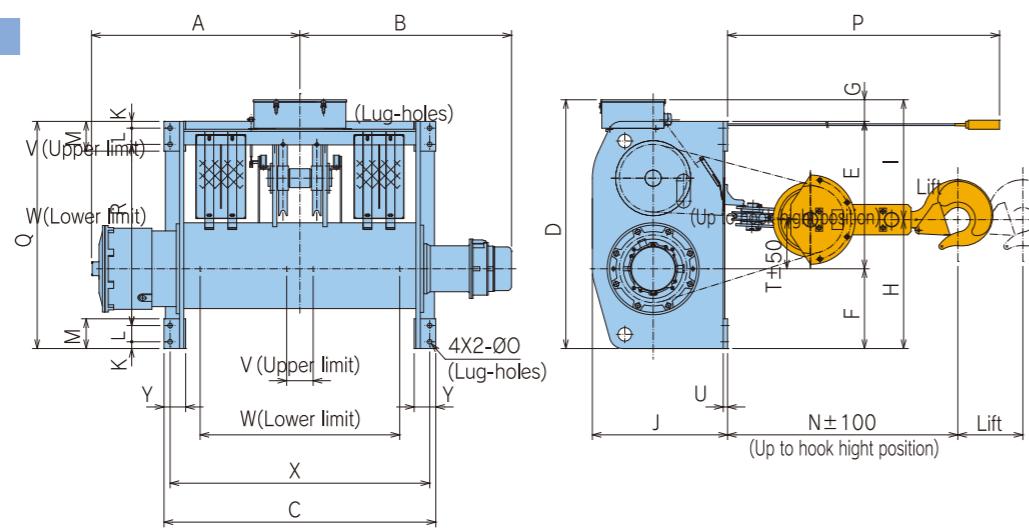
Model	S-7.5		S-10		S-15		S-20-HS	S-30-HS
	LS	HS	LS	HS	LS	HS		
Cap.(t)	7.5		10		15		20	30
Lift(m)	8	12	8	12	8	12	12	12
A	669	794	719	844	799	949	999	1209
B	1004	1129	959	1084	1085	1235	1235	1285
C	493		531		633		663	713
D	920	1170	920	1170	960	1260	1260	1380
E	1010	1260	1010	1260	1080	1380	1380	1480
F	140		150		170		170	200
G	370		370		500		500	620
H	470		490		630		640	770
J	2		12		2		12	12
K	215		245		295		320	385
L	290		310		370		395	435
M	215		245		295		320	355
N	580		670		810		870	960
O	35		35		47		47	54
P	8000	12000	8000	12000	8000	12000	12000	12000
R	100		120		130		140	150
U	31		35		41		41	49
X	188		218		275		308	320
Y	152		220		220		220	220
Z	50		53		70		70	80
Weight(kg)	650	720	1000	1100	1400	1550	1900	3200
Hook block weight(kg)	80		100		190		280	380

# Frame mounted Type S2 (40t·45t)

S2-40



S2-45

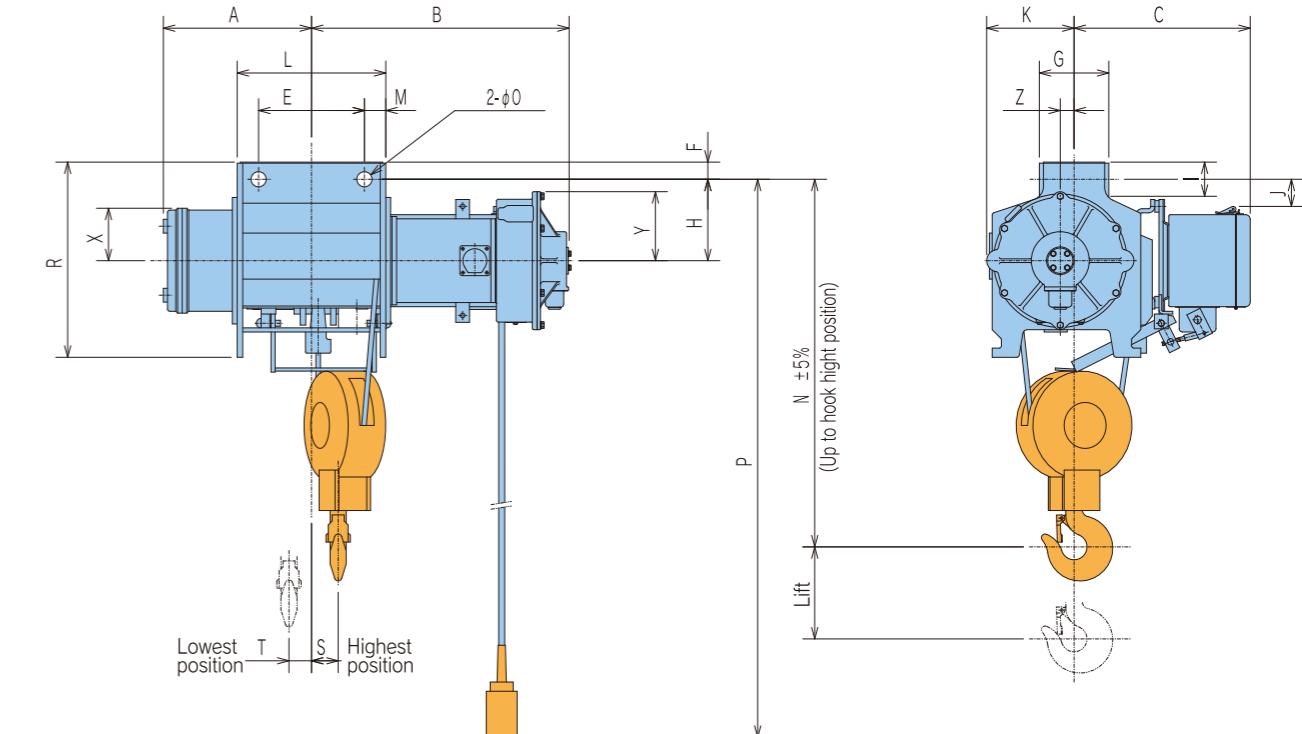


Model	S2-40		S2-45	
	LS	HS	HS	HS
Cap.(t)	40		45	
Lift(m)	6.5	11.5	12.5	19
A	1333	1683	1543	1893
B	1515	1865	1565	1915
C	1930	2630	2010	2710
D	1653		1840	
E	810		1090	
F	710		590	
G	133		160	
H	791		953	
I	862		887	
J	845		1000	
K	50		50	
L	120		120	
M	220		220	
N	1190		1725	
O	35		35	
P	7500	12500	14000	20500
Q	1520		1680	
R	1180		1340	
T	81		363	
U	32		32	
V	602		196	
W	1485	2164	1476	2141
X	1840	2540	1920	2620
Y	160		160	
Weight(kg)	4200	4700	5400	5900
Hook block weight(kg)	640		590	

# Suspended Type S (1/2t·1t·2t·2.8t·3t)

S-1/2 · 1 · 2 · 2.8 · 3

⟨LK2, HK2, LK3, HK3⟩



Remarks: Clamping bolts are available for 1/2t~2.8t models separately.

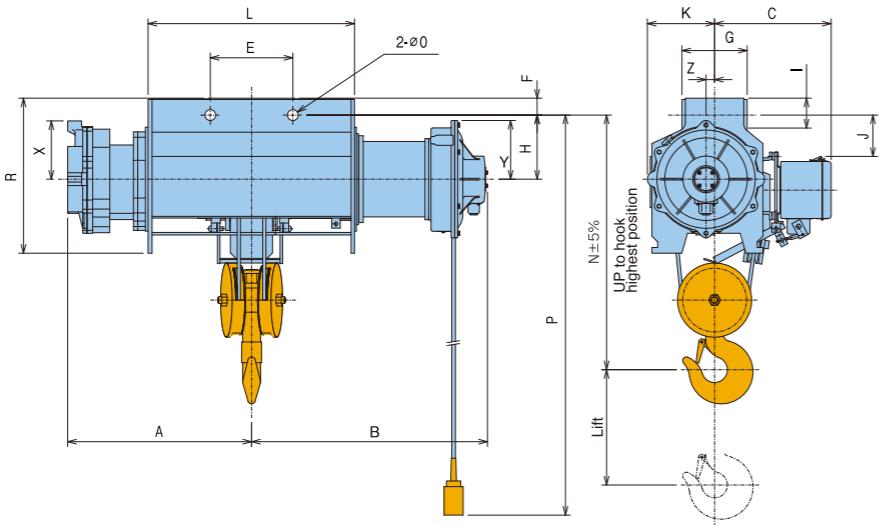
Model	S-1/2		S-1		S-2		S-2.8 (3)	
	LK2	HK2	LK2	HK2	LK2	HK2	LK3	HK3
Cap.(t)	1/2		1		2		2.8 (3)	
Lift(m)	6	12	6	12	6	12	6	12
A	287	457	287	474	322	479	341	510
B	433	473	518	551	563	593	610	641
C	324		345		383		408	
E	170	230	230		230		230	
F	28	33	33		38		43	
G	140	117	117		151		176	
H	155		160		177		215	
I	75	78	63		67		80	
J	18		47		59		127	
K	151		167		190		216	
L	283	493	298	518	323	508	323	523
M	32	42	34	67	47	75	46	77
N	570		670		800		965	
O	20	24	24		33		33	
P	6000	12000	6000	12000	6000	12000	6000	12000
R	328	333	373		425		518	
S	50	93	71	105	58	101	60	97
T	58	123	42	119	49	113	47	115
X	87		107		140		172	
Y	85		105		150		150	
Z	20		36		30		30	
Weight(kg)	90	105	135	150	220	245	310	345
Hook block weight(kg)	4.5		7.5		15		27	

Note: In the case of S-1/2, the position of pendent push button is on the side of hoisting deceleration section.

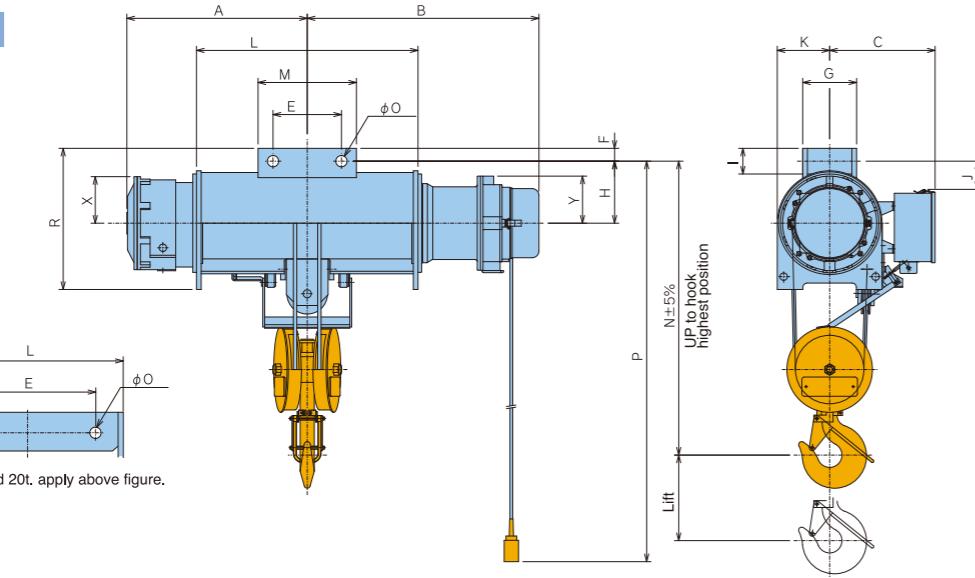
# Suspended Type S

(5t · 7.5t · 10t · 15t · 20t)

S-5



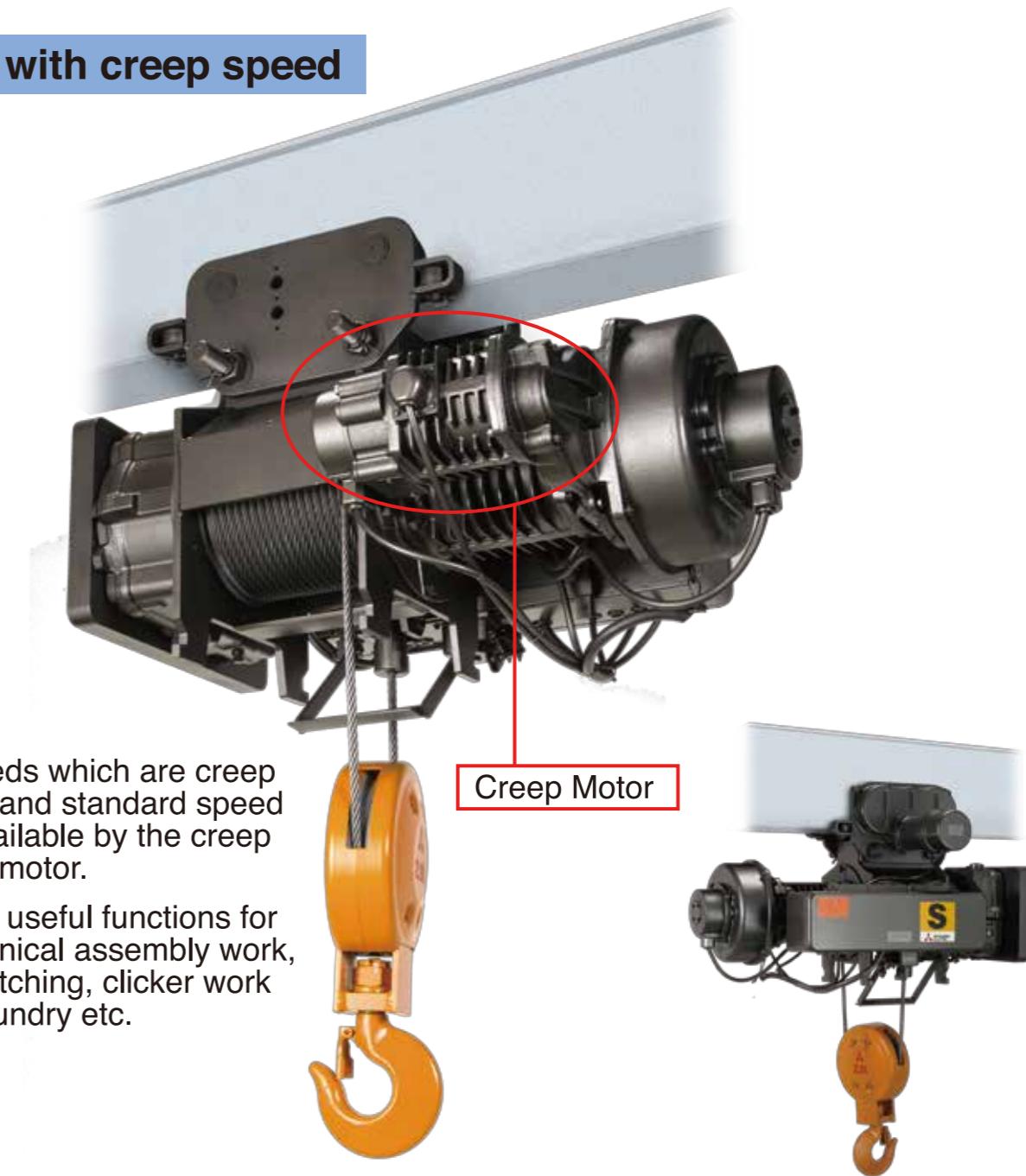
S-7.5 · 10 · 15 · 20



Model	S-5		S-7.5		S-10		S-15		S-20-HK
	LK3	HK3	LK	HK	LK	HK	LK	HK	
Cap.(t)	5		7.5		10		15		20
Lift(m)	8	12	8	12	8	12	8	12	12
A	646	771	669	794	719	844	799	949	999
B	830	955	1004	1129	959	1084	1085	1235	1235
C	410		458		493		558		583
E	290		300		320		620	800	800
F	60	61	55		60		80		100
G	229		252		252		225		225
H	225		255		290		365		410
I	105	106	120		120		178		217
J	145		77		132		167		237
K	236		215		245		295		320
L	725	975	796	1046	786	1036	831	1131	1131
M	—		440		460		—		—
N	905		1165		1380		1680		1800
O	38		47		53		78		103
P	8000	12000	8000	12000	8000	12000	8000	12000	12000
R	546		600		660		845		935
X	205		188		218		275		308
Y	206		152		220		220		220
Z	30		—		—		—		—
Weight(kg)	510	580	650	720	1000	1100	1400	1550	1900
Hook block weight(kg)	42		80		100		190		280

# S Series with creep speed

## Hoist with creep speed



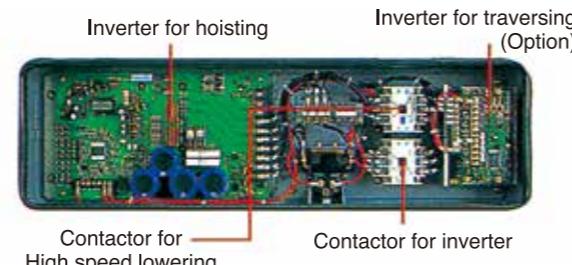
- 2 Speeds which are creep speed and standard speed are available by the creep speed motor.
- having useful functions for mechanical assembly work, die matching, clicker work at a foundry etc.

Cap. (t)	Hoisting speed m/sec (m/min)		With hoisting creep speed m/sec(m/min)									
			With hoisting creep speed(VT)		With hoisting and traversing creep speed(VS)		Monorail-Low-head type		Double rail type		Monorail-Low-head type	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1	0.0183/0.183 (1.1/11)	0.0217/0.217 (1.3/13)	0.35 (21)	0.417 (25)	—	—	0.0875/0.35 (5.2/21)	0.104/0.417 (6.2/25)	0.0875/0.35 (5.2/21)	0.104/0.417 (6.2/25)	0.0875/0.35 (5.2/21)	0.104/0.417 (6.2/25)
2	0.014/0.14 (0.84/8.4)	0.0167/0.167 (1.0/10)										
2.8	0.0112/0.112 (0.67/6.7)	0.0133/0.133 (0.8/8)										
5	0.00967/0.0967 (0.58/5.8)	0.0117/0.117 (0.7/7)	0.2 (12)	0.25 (15)	0.3 (18)	0.04/0.2 (2.4/12)	0.05/0.25 (3/15)	0.05/0.25 (3/15)	0.05/0.25 (3/15)	0.06/0.3 (3.6/18)	0.06/0.3 (3.6/18)	0.06/0.3 (3.6/18)
7.5	0.00833/0.0833 (0.25/5)	0.01/0.1 (0.6/6)										
10	0.007/0.07 (0.42/4.2)	0.00833/0.0833 (0.5/5)										
15	—	—	30	—	—	—	—	—	—	—	—	
20	—	—										
30	0.00467/0.0467 (0.28/2.8)	0.00055/0.055 (0.33/3.3)										

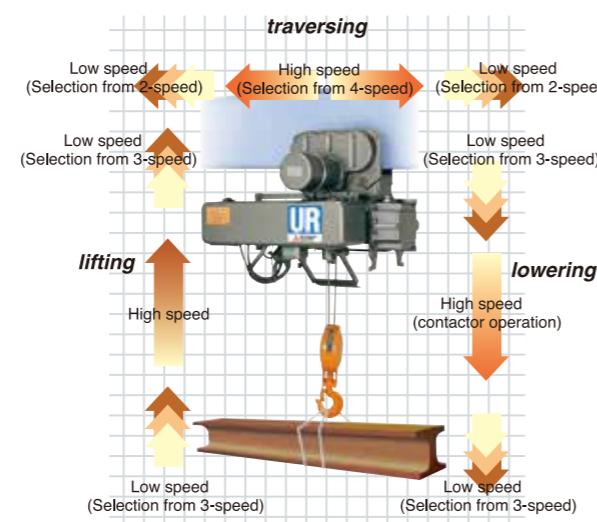
# UR Type Series Inverter hoist 1t~2.8(3)t



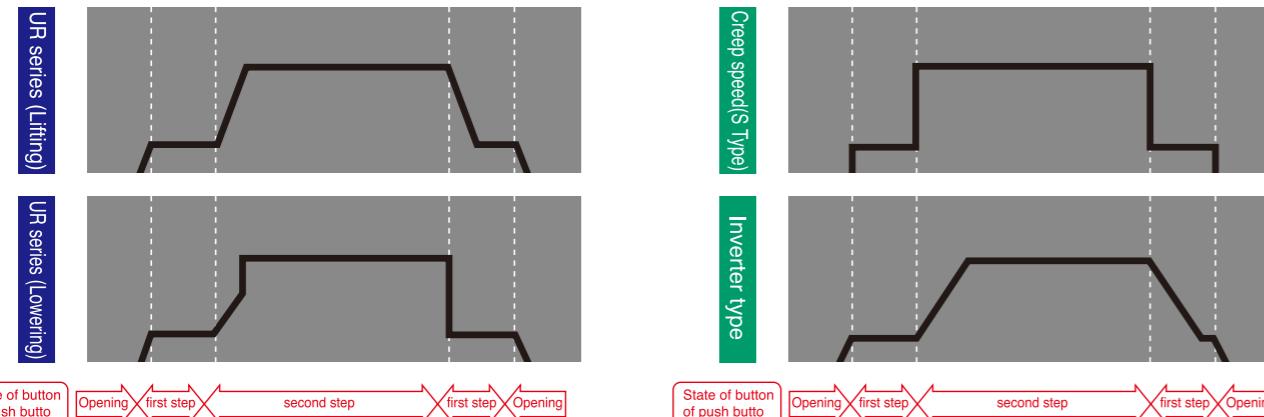
## The inside of Control box



## Operation image of inverter hoist



## Moving pattern by push button operation



### Excellent Operativeness

The new control system which combines Inverter operation and contactor operation for the first time in the industry realises smooth operativeness and quick response of stop and speed reduction. In addition, low hoisting speed can be selected from 3 speed types. In the case of hoist with traversing inverter, high speed can be selected from 4 speed types and low speed can be selected from 2 speed types. In comparison with the conventional creep type, the setting range is wider.

### Improvement of maintenance

Since its structure part is the same as general purpose hoist, the number of parts decreased significantly compared with the conventional creep type. And the maintenance is easy as its control parts are made into one board.

### Effect of conservation of energy

As UR type does not use a regenerative resistor, it is more power saving compared to U type. The durability of its brake disk becomes about double in comparison with that of the conventional creep type.

### Excellent cost performance

The UR series is variable speed hoist very high in cost performance.

Features(comparison with the U series, conventional creep type hoist)

Item	UR series	Creep speed(S Type)	U2 series
Control system (Lifting/Lowering)	Inverter and contactor operation Lifting:both low and high speed: Inverter control Lowering at low speed:Inverter control Lowering at high speed:contactor operation	contactor operation Change two motors with clutch	Inverter
Control system(Traversing)	Inverter	Pole change or two motors	Inverter
Speed setting (Lifting/Lowering)	High speed: Fixed(Normal speed) Low speed: select from 1/10, 1/6, 1/4 of high speed	High speed:Fixed(Normal speed) Low speed: Fixed (1/10 of Normal speed)	Setting is possible at arbitrary speed with high speed, the low speed between 1/10 of normal speed - nomal speed
Speed setting(Traversing)	High speed: select from 25, 20, 15, 10m/min Low speed: select from 2.5, 5/min	High speed: Fixed Low speed: Fixed ※Speed ratio 1:1/4 or 1:1/5	Setting is possible at arbitrary speed with high speed, the low speed between 1/10 of normal speed - nomal speed
Respons for the operation	Slow start, Sudden stop *	Sudden start, Sudden stop	Slow start, Slow stop
Operative cost	Medium	High	Low
Power consumption	Low	Low	Medium
Number of parts	Small	Large	Medium

\*At lifting, it stops as the cushion working, and At lowring,it stops by sudden deceleration.

Specifications			Wire rope			Hoisting			Traversing									
Type	Capacity(t)	Lift(m)	Wire rope			Rope specification	Hoisting speed m/s (m/min)	Output (kW)	Rated Current(A)	Poles	Hoisting speed m/s (m/min)		Motor		Poles			
			Monail type	Low head type	Double rail type						50 Hz	60 Hz	High speed	Output	Current (A)			
UR	1	12	φ 8 ※1	φ 6.3	—	6×W(19) B class JIS-G3525	0.0133 (0.8)	0.133 (8)	1.4	10	4	0.35 (21)	0.417 (25)	0.417 (25)	0.22	0.26	1.6	1.5
	2		φ 10	φ 8	—	6×Fi(29) B class JIS-G3525	0.012 (0.72)	0.12 (7.2)	2.6	16								
	2.8 (3)		φ 12.5	φ 9	φ 9	—	—	—	3.6 (3.8)	23								

※1. Rope specification of 1t 2falls is 6×Fi(29)

Note 1: The values in the table are referential values.

Note 2: In the case of 400V class (Including 380V), there may be differences in outline dimension. Please contact us.

● Power supply 3-phase 200V 50/60Hz control 200V, 220V 60Hz control 220V (400V class is also available) 3-phase 400V 50/60Hz control 200V, 440V 60Hz control 220V 3-phase 380V 50Hz control 48V(100V and 24V are also available)

● Operating method Push button switch operations.

Suspended type	1/2~3t
Frame mounted type	4 Points
Motor operated traversing hoist	8 Points
	ON OFF U D

● Above push buttons are all 2 step push buttons excluding "ON" and "OFF"

● Applicable standard JISC9620 Electric Hoist, Crane structure standard

● Rating Hoisting:25% ED(63% of rating load), 150S/Hr JISC9620, Travelling:30 min. JISC9620

● Power supply system Cable feeding, Trolley feeding (limited to Double trolley type)

● Ambient air temperature -10°C~40°C (Non congelation)

● Ambient relative humidity Less than 90% RH (Non condensing)

● Enclosure Simplified outdoor type(JISC 0920, Equivalent to IP44)

(Rainproof cover is required, when it is used in the open air.)

● Color coating Main body:Metallic gray (Equevalent to Munsell N4.0)

Hook block:Munsell 7.5YR7/14

Pushbutton:Equivalent to Munsell 7.5YR7/13

Note:These hoists can not be used for lift (elevator for passengers.)

● Remarks

- High lowering is contactor operation, speed is 6m/min in 1t and 6.7m/min in 2t+2.8t for the power supply of 50Hz.
- Lifting low speed is set to 1/10 of high-speed at shipment.
- High speed traversing/low speed traversing is set to 25/2.5m/min at shipment.

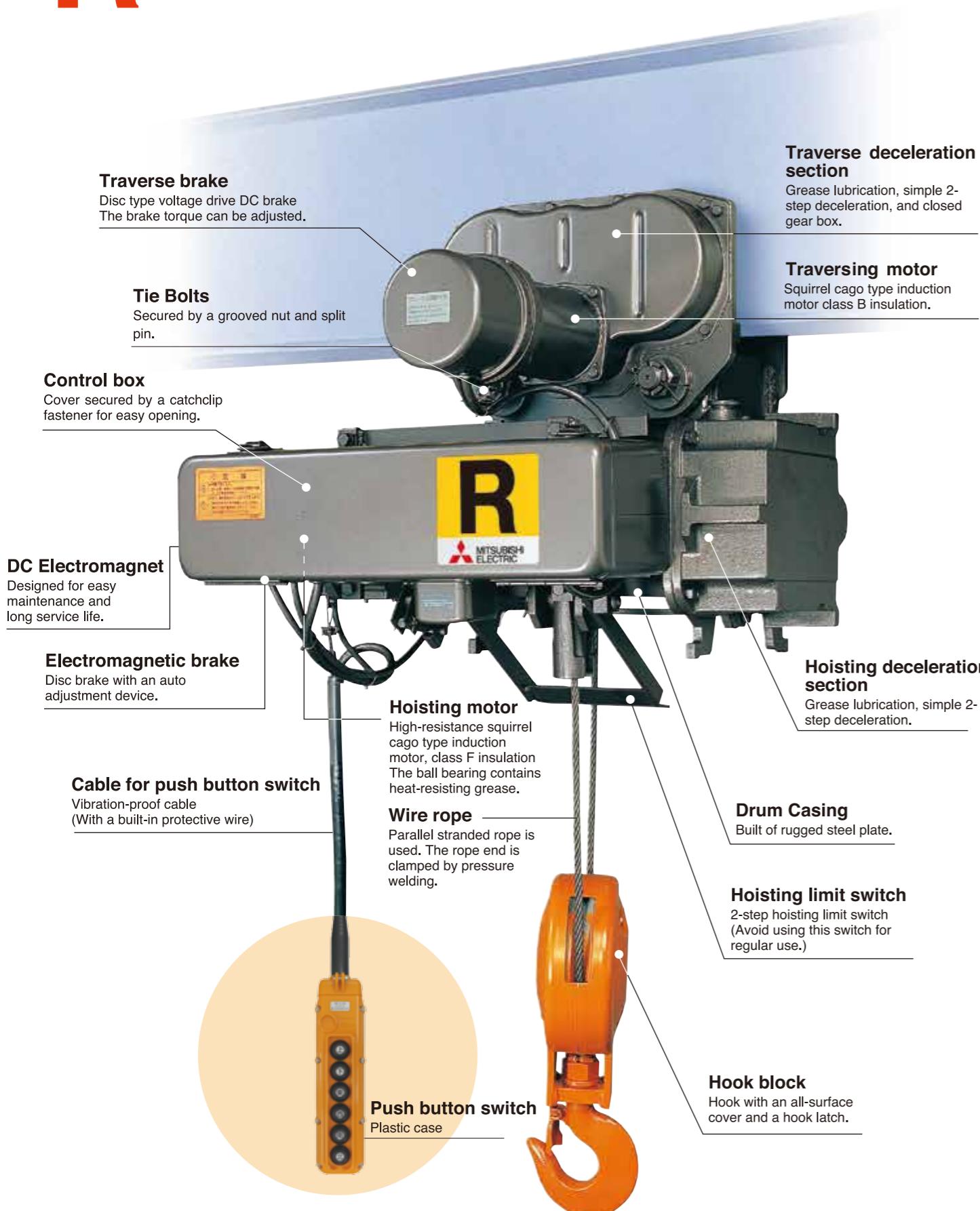
● caution

- UR Series are not possible to use for the lift.
- When the winding creep is done, it is not possible to operate smoothly by the traversing resistance. Please contact us.
- We recommend the installation of the noise filter because it might mis-operate in the point where a lot of power supply noises exist.
- Please contact us when you use the product in a lot of places such as the causticity gas and dust that are.
- Speed range of lifting and lowering in low speed is ±40% of the display value in the ratings load. The speed difference between much load and no load grows at the time of a low speed operating, too.

# R Type Series

Regular type Utilitarian type 1t~2.8(3)t

R type copes with both one-class higher capability and economical efficiency.



Specifications													
Type	Capacity(t)	Lift(m)	Wire rope	Hoisting				Traversing					
				Motor		Speed m/s (m/min)		Motor		Speed m/s (m/min)			
				Output (kW)	Rated Current (A)	50 Hz	60 Hz	Output (kW)	Rated Current (A)	50 Hz	60 Hz		
				50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
	1	2 falls	φ 8 ※1	φ 6.3	6×W(19) B class JIS-G3525	0.112 (6.7)	0.133 (8)	1.2	1.4	7.4	7.9		
R	2	6	12	φ 10	φ 8			2.2	2.6	13.1	13.2		
	2.8			φ 12.5	φ 9	6×Fi(29) B class JIS-G3525	0.1 (6)	0.12 (7.2)	3	3.6	19	19.4	
	3			φ 12.5	φ 9			3.2	3.8				

※1 Rope specification of 1t 2falls is 6×Fi(29)

Note 1: High lift models (Low-head type1~2.8t, Double rail type2.8t) are not available.

## Standard specifications

- **Power supply**…3-phase 200V 50/60Hz control 200V, 220V 60Hz control 220V (400V class is also available)…3-Phase 400V 50/60Hz control 200V, 440V 60Hz control 220V 3-Phase 380V 50Hz control 48V (100V and 24V are also available)

- **Operating method**…Push button switch operations.

Suspended type	1/2~3t
Frame mounted type	2 Points
Motor operated traversing hoist	UD
	6 Points
	U D E W S N

- **Rating**…30 min. (JIS C 9620)

- **Power supply system**…Both trolley feeding and cable feeding are available. However, neither trolley nor cable is attached.

- **Enclosure**…Simplified outdoor type(JISC 0920, Equivalent to IP44)

(Rainproof cover is required, when it is used in the open air.)

- **Applicable standard**…JIS C 9620 electric hoist/crane structure standard

- **Color coating**…Main body: Metallic gray (Equivalent to Munsell N4.0)

Hook block:Munsell 7.5YR7/14

Pushbutton:Equivalent to Munsell 7.5YR7/14

- **Ambient air temperature**…-10°C to 40°C (Non congelation)

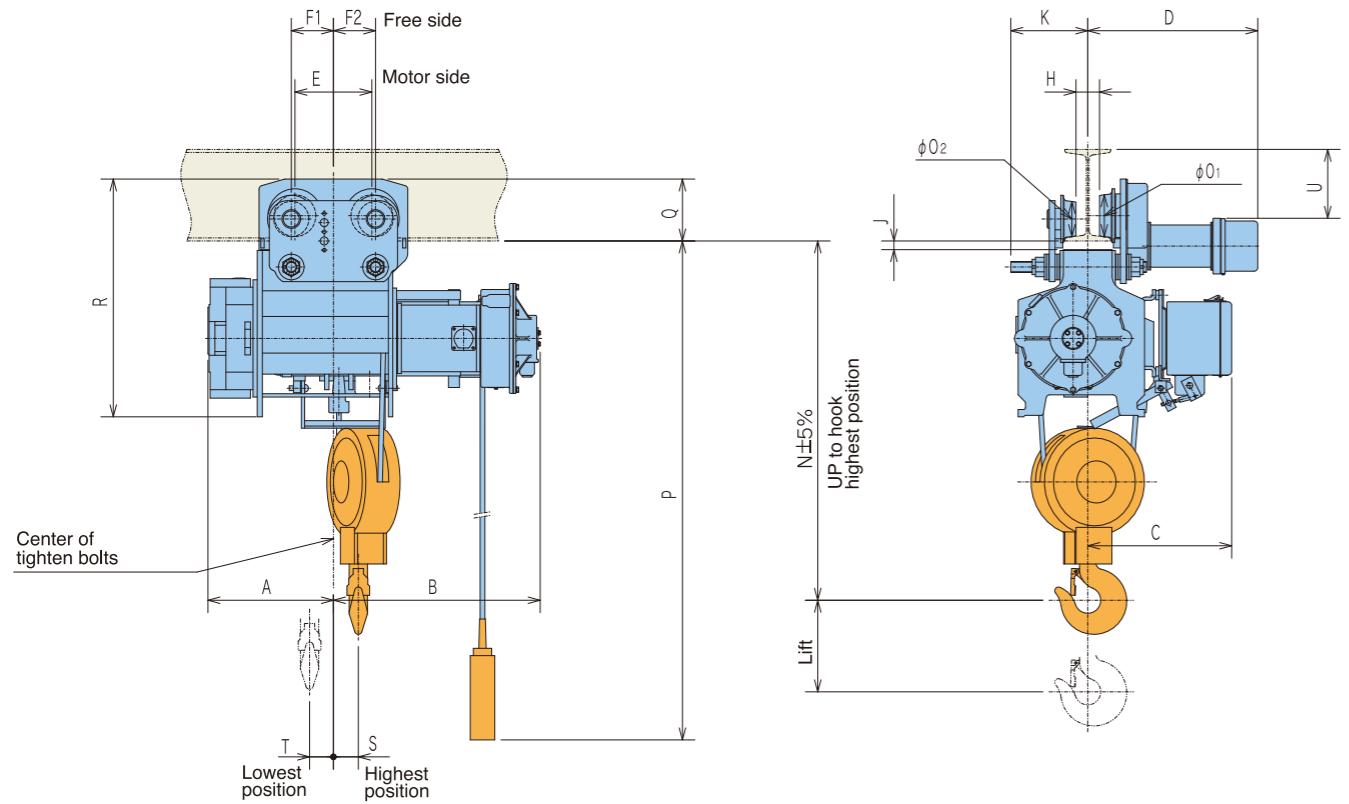
- **Ambient relative humidity**…90% or less (Non condensing)

Note: These hoists cannot be used for lift (elevator for passengers.)

# Monorail Type UR・R

(1t・2t・2.8(3)t)

※UR type...Contact us for  
400V class outline



Model	UR-1-LMH3 UR-1-LMS3 R-1-LM3	UR-1-HMH3 UR-1-HMS3 R-1-HM3	UR-2-LMH3 UR-2-LMS3 R-2-LM3	UR-2-HMH3 UR-2-HMS3 R-2-HM3	UR-2.8(3)-LMH2 UR-2.8(3)-LMS2 R-2.8(3)-LM2	UR-2.8(3)-HMH2 UR-2.8(3)-HMS2 R-2.8(3)-HM2										
Cap.(t)	1		2		2.8											
Lift(m)	6	12	6	12	6	12										
A	283	489	284	485	343	558										
B	468	507	532	566	565	610										
C	347		368		393											
E	200		210		210											
F1	105	170	115	205	115	205										
F2	120	170	115	165	115	165										
K	182		210		210											
N	730		840		980											
O1/O2	80/72		114/96		114/96											
P	6000	12000	6000	12000	6000	12000										
R	535		585		649											
S	76	117	73	108	68	115										
T	49	132	47	130	65	150										
Min.rad.curvature(m)	1.8(3.0)/[4.5]	3.0/[7.5]	2.5/[6]	3.5/[8.5]	2.5/[6]	3.5/[8.5]										
Weight(kg)	150	170	230	260	320	360										
Hook block weight(kg)	7.5		15		27											
I-Beam related dimensions	D 200×100×7 *1	H 48	J 33	Q 140	U 155	D 453	H 40	J 31	Q 167	U 140	—	—	—	—	—	
Applicable I-Beam(mm)	250×125×7.5	385	74	31	142	203	465	64	29	169	188	465	64	21	169	188
	300×150×11.5						478	90	19	179	228	478	90	14	179	228
	450×175×13															
	600×190×13															

Note.1.Min.rad.cur( )denotes the case of using below I beam.

2.Applicable I-Beam █= Standard

3.Min.rad.cur [ ] UR Type with traversing inverter

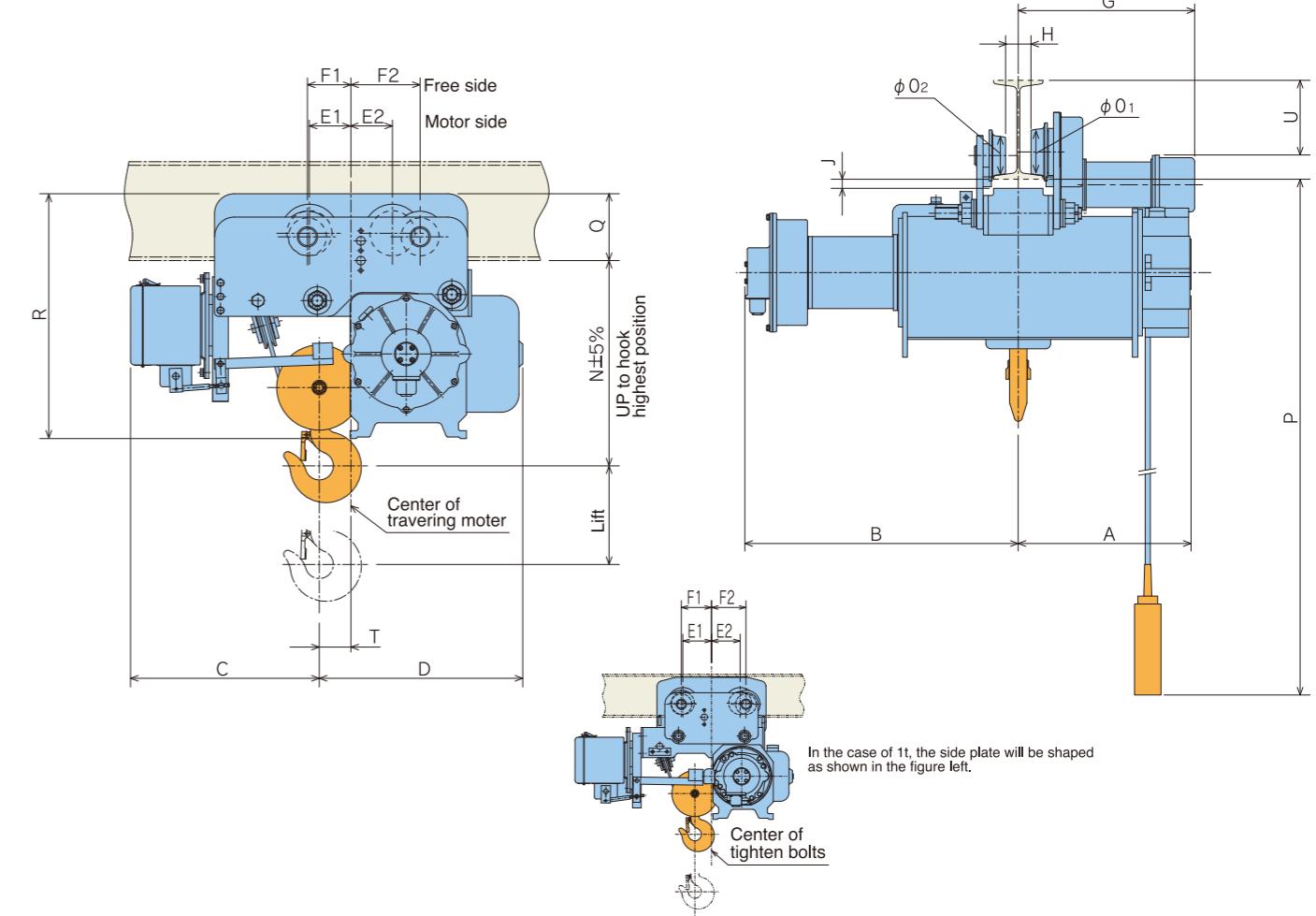
R-1, UR-1…150×75×5.5 4. █ = required special attachment

\*1 150×75×5.5 is applicable

# Low-head Type UR・R

(1t・2t・2.8(3)t)

※UR type...Contact us for  
400V class outline



Model	UR-1-LDH3 UR-1-LDS3 R-1-LD3	UR-2-LDH3 UR-2-LDS3 R-2-LD3	UR-2.8(3)-LDH2 UR-2.8(3)-LDS2 R-2.8(3)-LD2													
Cap.(t)	1	2	2.8													
Lift(m)	6	6	6													
A	426	415	437													
B	583	656	695													
C	418	465	478													
D	343	455	515													
E1	100	105	105													
E2	100	105	105													
F1	105	110	110													
F2	120	175	175													
N	405	485	515													
O1/O2	80/72	114/96	114/96													
P	6000	6000	6000													
R	495	572	619													
T	58	77	80													
Min.rad.curvature(m)	2.0(3.5)/[5]	3.0/[7.5]	3.0/[7.5]													
Weight(kg)	170	260	350													
Hook block weight(kg)	8	15	25													
I-Beam related dimensions	G 200×100×7 *1	H 48	J 19	Q 140	U 155	G 453	H 40	J 23	Q 167	U 140	—	—	—	—	—	
Applicable I-Beam(mm)	250×125×7.5	385	74	17	142	203	465	64	21	169	188	465	64	23	169	188
	300×150×11.5						478	90	11	179	228	478	90	13	179	228
	450×175×13															
	600×190×13															

Note.1.Min.rad.cur( )denotes the case of using below I beam.

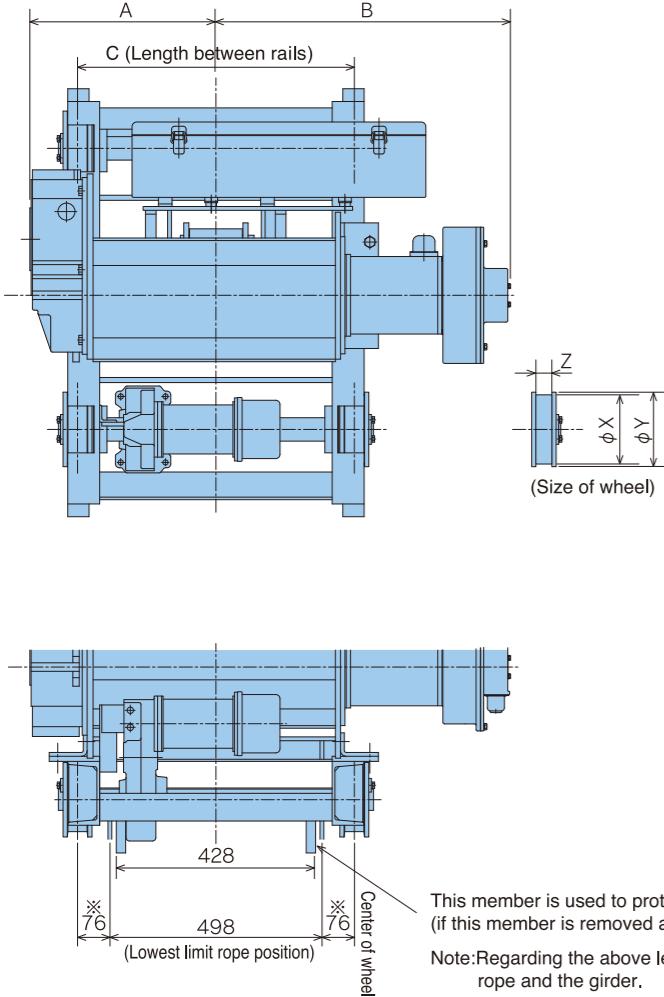
R-1, UR-1…150×75×5.5 4. █ = required special attachment

\*1 150×75×5.5 is applicable

# Double rail Type UR・R

(2.8(3)t)

※UR type...Contact us for  
400V class outline



This member is used to protect the traverse gear case.  
(if this member is removed after the installation, this will not cause any trouble.)

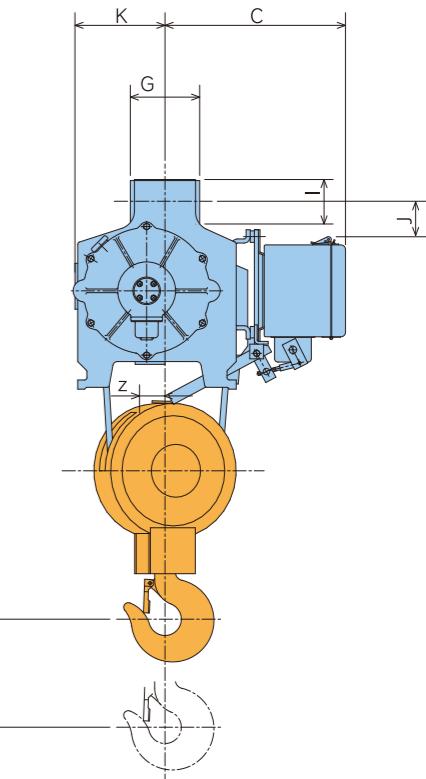
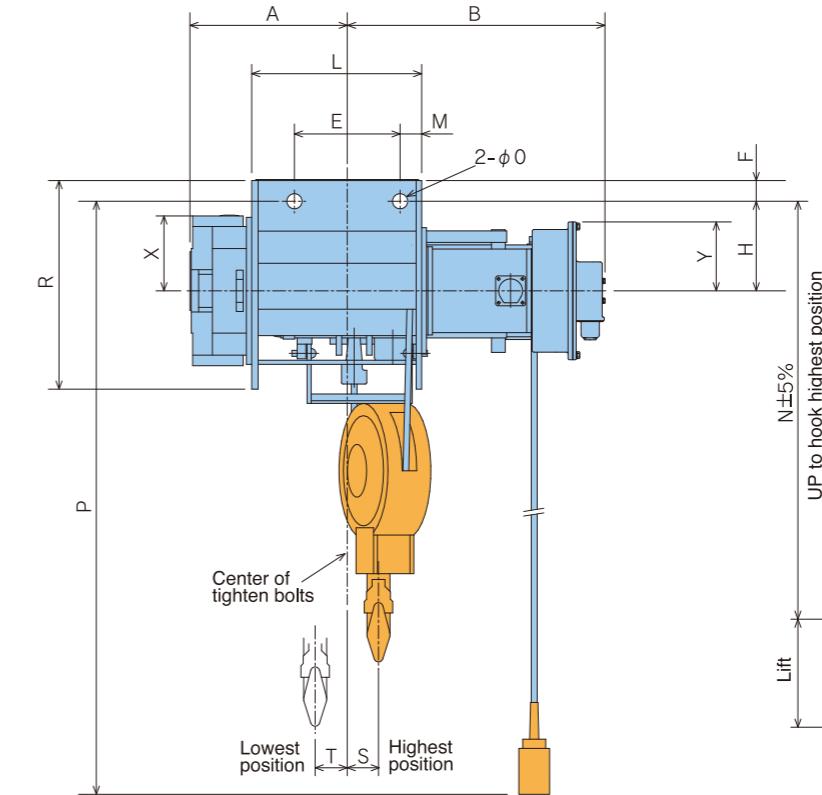
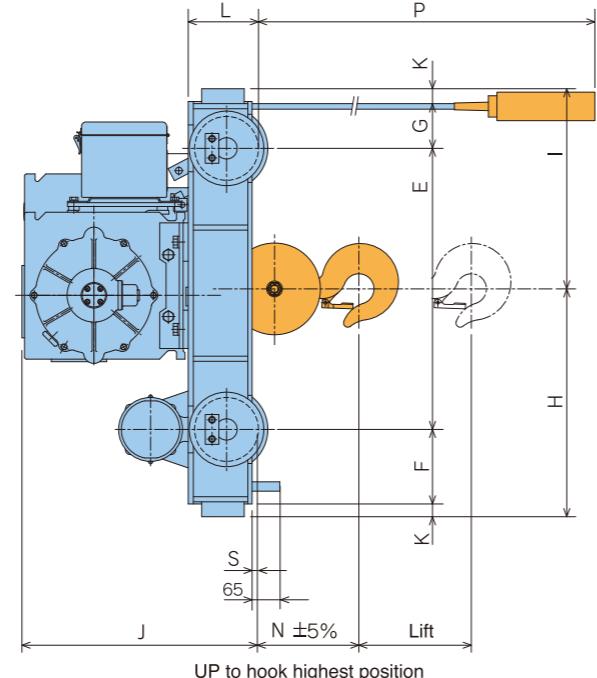
Note: Regarding the above lengths marked(※), take care about interference between the wire rope and the girder.

Model	UR-2.8(3)-LRH2A UR-2.8(3)-LRS2A R-2.8(3)-LR2A		
Cap.(t)	2.8		
Lift(m)	6		
Dimensions(mm)	A	437	K
	B	695	L
	C	650	N
	E	660	P
	F	175	S
	G	110	T
	H	535	X
	I	470	Y
	J	556	Z
	Weight(kg)	435	
Hook block weight(kg)	25		
Applicable Rail	12kg rails or 38mm steel square bars		

# Suspended Type UR・R

(1t・2t・2.8(3)t)

※UR type...Contact us for  
400V class outline



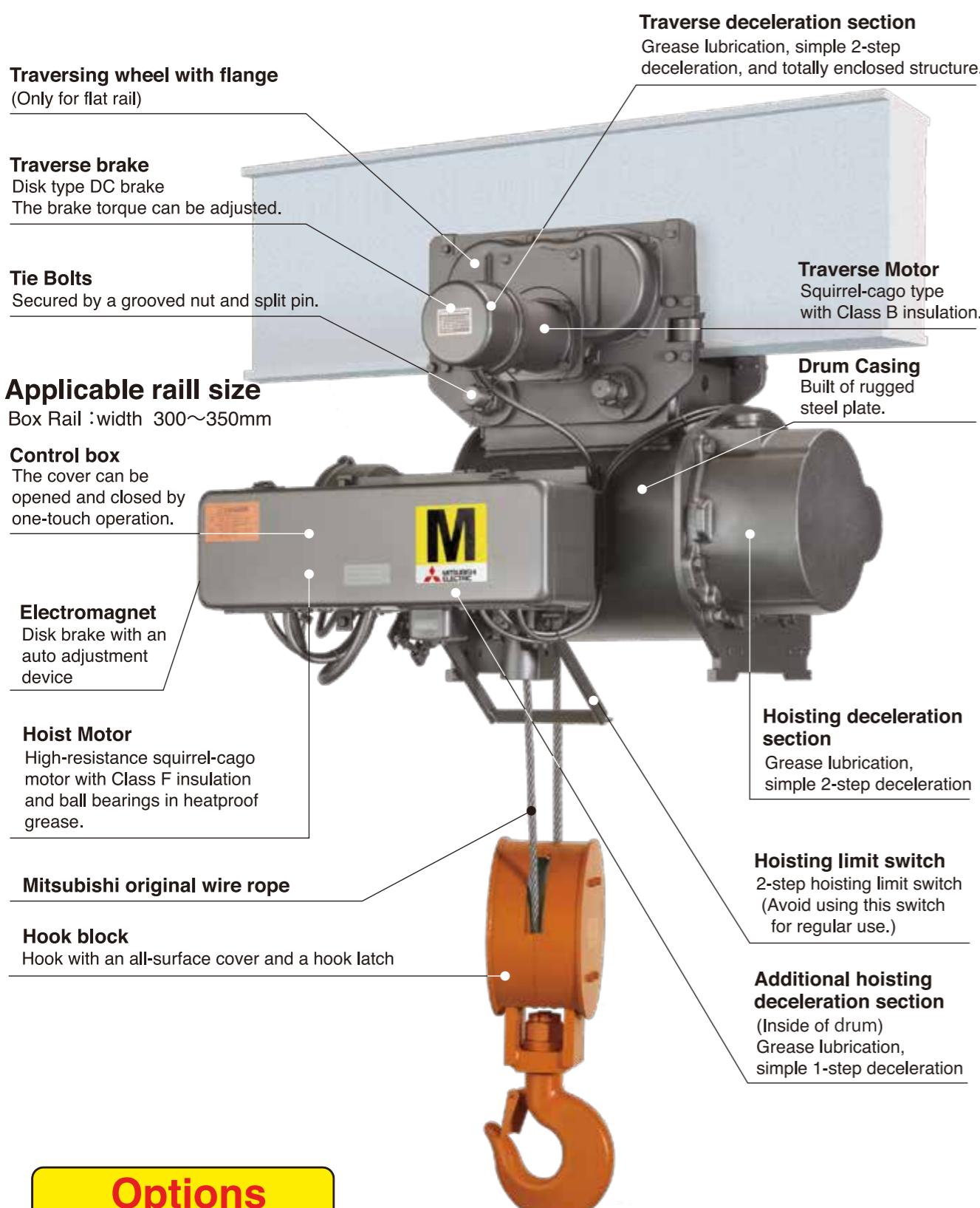
Remarks: Clamping bolts are available separately.

Model	UR-1-LKH3 R-1-LK3	UR-1-HKH3 R-1-HK3	UR-2-LKH3 R-2-LK3	UR-2-HKH3 R-2-HK3	UR-2.8(3)-LKH2 R-2.8(3)-LK2	UR-2.8(3)-HKH2 R-2.8(3)-HK2
Cap.(t)	1		2		2.8	
Lift(m)	6	12	6	12	6	12
A	283	489	284	485	343	558
B	468	507	532	566	565	610
C	347		368		393	
E	230		230		230	
F	33		43		48	
G	117		151		151	
H	160		170		195	
I	71		83		94	
J	47		57		77	
K	182		174		200	
L	323	568	326	561	370	630
M	37	76	48	82	47	92
N	665		765		910	
O	24		33		33	
P	6000	12000	6000	12000	6000	12000
R	363		388		457	
S	76	117	73	108	68	115
T	49	132	47	130	65	150
X	109		141		165	
Y	85		105		150	
Z	46		41		40	
Weight(kg)	120	135	170	200	260	300
Hook block weight(kg)	7.5		15		27	

# M Type Series

5t・10t

M Type has been designed for optimizing price and performance.



## Options

- Over loading monitor
- Guide roller
- Traversing limit switch

\* Photo is an optional wearing product. Please refer for the optional details separately.

Specifications											
Type	Capacity(t)	Wire rope		Hoisting			Traversing				
		Rope specification		Motor			Speed m/s (m/min)	Motor			Speed m/s (m/min)
		Double rail type	Monorail type	Speed (m/min)	Output (kW)	Rated Current (A)		Speed (m/min)	Output (kW)	Rated Current (A)	
M	5	Low	High	50 Hz	50	50	50 Hz	50 Hz	50	50	50 Hz
	10	—	12.5	12.5	2.5	5.0	4	12	0.85	2.2	2.2
*1 Low lift models are not available *2 Using non genuine wire ropes causes low safety factor has an increased risk of short product cycle											

## Standard specifications

● Power supply 3-phase 380V 50Hz control 48V(24V is also available)

● Operating method Push button switch operations.

5t・10t	
Suspended type	4 Points
Frame mounted type	ON OFF UD
Motor operated traversing hoist	8 Points ON OFF U D E W S N

● Rating Hoisting : 40%ED(100% of load rating), 240S/Hr (FEM 9.683), \*only 50Hz  
Traversing : 25%ED (100% of load rating), 150S/Hr \*only 50Hz

● Power supply system Cable feeding, trolley feeding

● Enclosure Simplified out door type(JIS C 9620 Equivalent to IP-44)

● Applicable standard JIS C 9620 electric hoist/crane structure standard, FEM 9.683

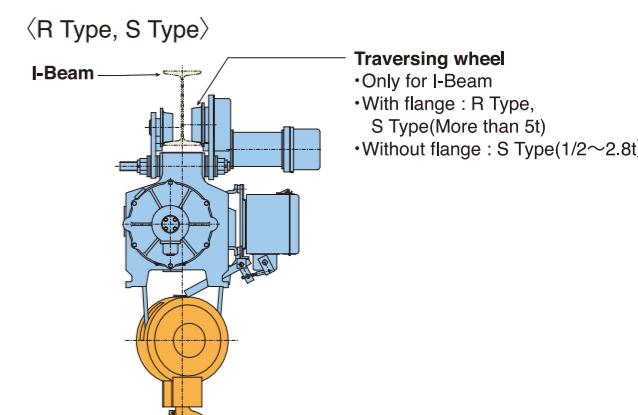
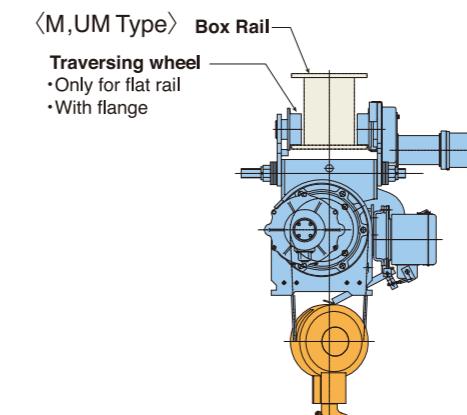
● Hoist class(ISO 4301-1) M5

● Color coating Main body : Metallic gray (Equivalent to Munsell N4.0)  
Hook block : Munsell 7.5YR 7/14  
Push button : Equivalent to Munsell 7.5YR 7/13

● Ambient air temperature -10°C~40°C (Non condensing)

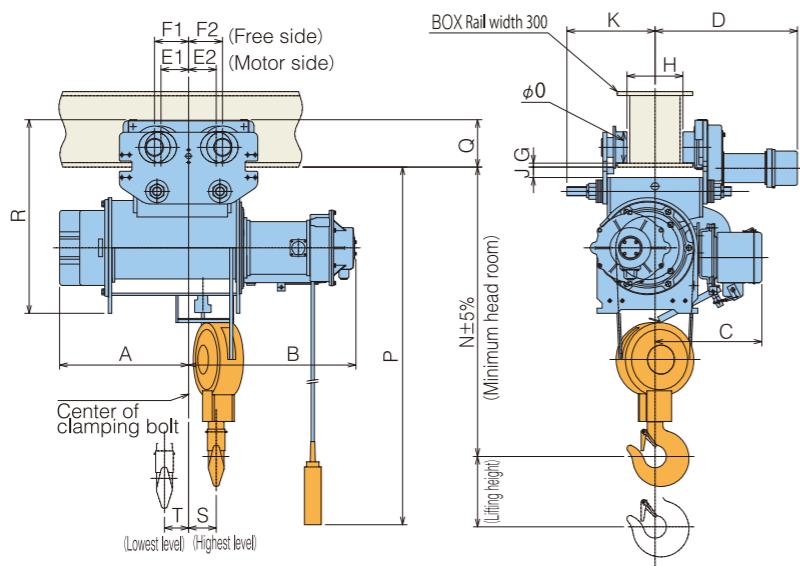
● Ambient air humidity 90% or less (Non condensing)

## Traversing wheel and Applicable rail

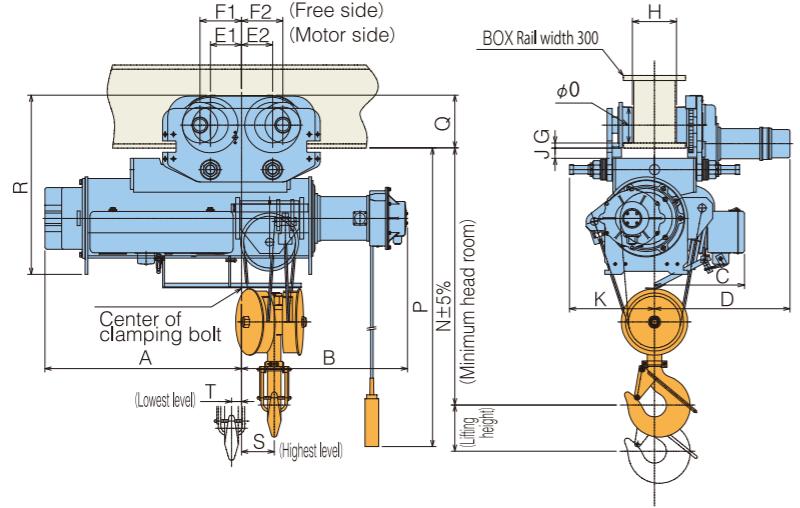


# Monorail Type M (5t·10t)

M-5-HM



M-10-HM

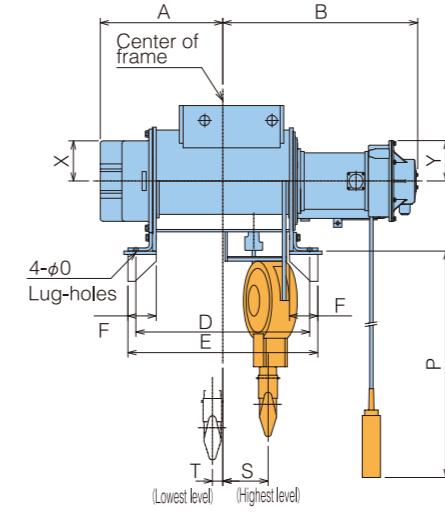


Model	M-5-HM	M-10-HM
Cap.(t)	5	10
Lift(m)	12	12
A	515	947
B	665	801
C	425	433
D	566(591)	654(679)
E1	110	150
E2	110	150
F1	135	200
F2	135	200
G	*1 16	*1 24
H	222(272)	212(262)
J	*1 31	*1 49
K	350	411(436)
N	1145	1245
O	125	173
P	12000	12000
Q	189	255
R	770	865
S	110	158
T	96	48
Min.rad.curvature(m)	Only straight line	Only straight line
Weight(kg)	540	875
Hook block weight(kg)	50	85
Applicable Box Rail Width(mm)	300(350)	300(350)

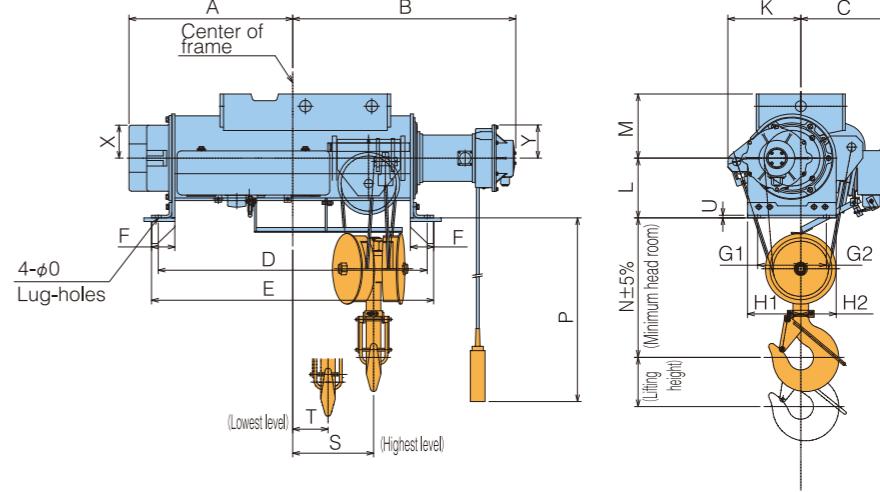
\*G and J are reference levels.(Because of no rail standard)

# Frame mounted Type M (5t·10t)

M-5-HS



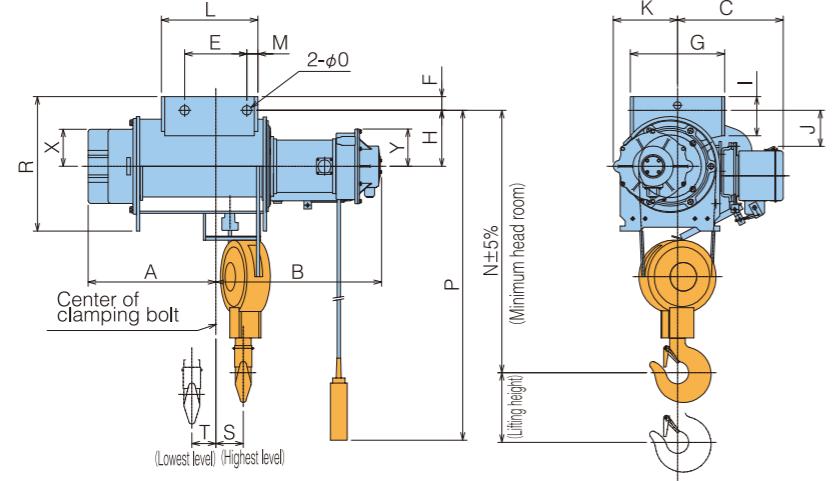
M-10-HS



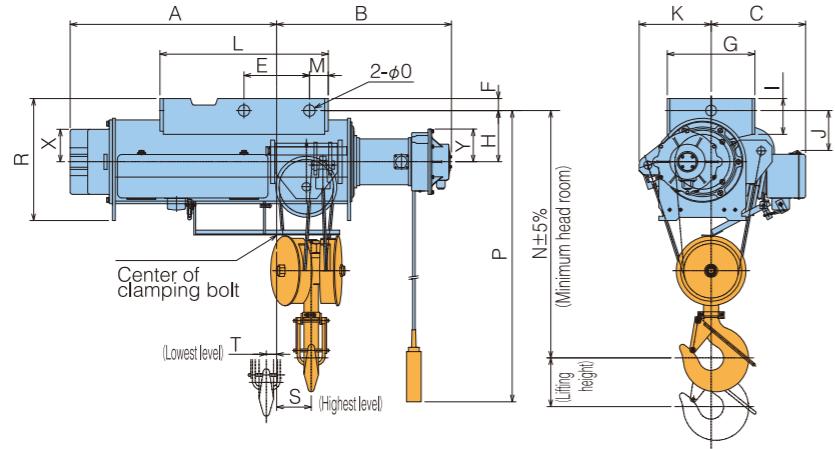
Model	M-5-HS	M-10-HS
Cap.(t)	5	10
Lift(m)	12	12
A	455	740
B	724	1009
C	425	433
D	645	1215
E	705	1275
F	105	105
G1	185	195
G2	125	115
H1	230	240
H2	170	160
K	258	330
L	260	270
M	280	290
N	570	630
O	18	26
P	12000	12000
S	168	366
T	39	160
X	150	150
Y	150	150
Weight(kg)	440	645
Hook block weight(kg)	50	85

# Suspended mounted Type M (5t·10t)

M-5-HK



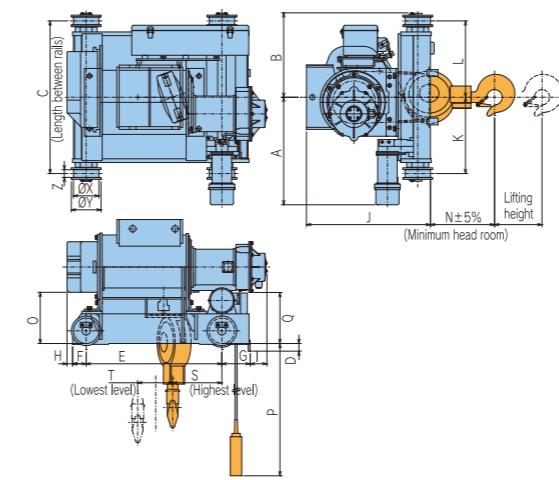
M-10-HK



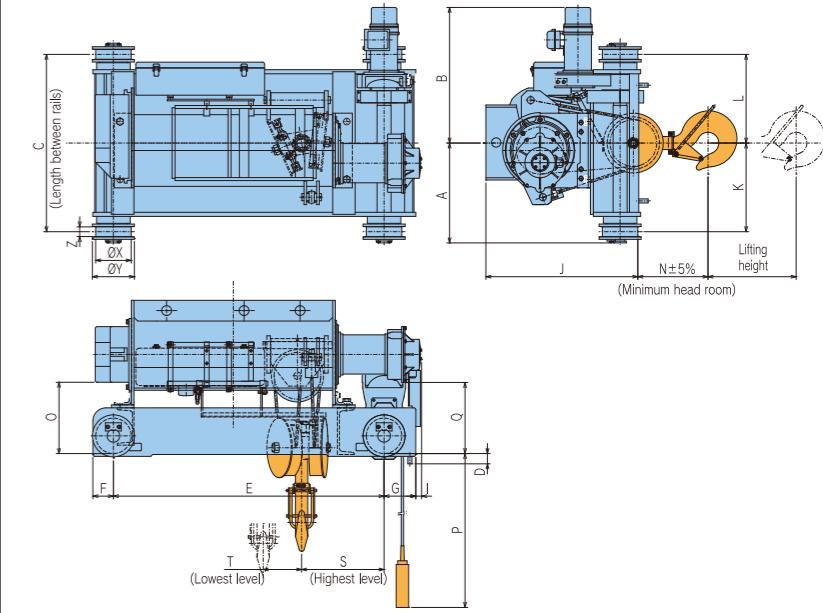
Model	M-5-HK	M-10-HK
Cap.(t)	5	10
Lift(m)	12	12
Dimensions(mm)		
A	515	947
B	665	801
C	425	433
E	250	300
F	55	55
G	379	402
H	225	235
I	157	164
J	145	183
K	258	330
L	388	772
M	44	86
N	1055	1135
O	38	53
P	12000	12000
R	540	560
S	110	158
T	96	48
X	150	150
Y	150	150
Weight(kg)	440	645
Hook block weight(kg)	50	85

# Double rail Type M (5t·10t)

M-5-HR



M-10-HR



Dimensions(mm)	Model	M-5-HR	M-10-HR
	Cap.(t)	5	10
Lift(m)	12	12	12
A			
B	498	727	535
C	900		950
D	45		55
E	800		1450
F	80		110
G	167		170
H	33	-	
I	99		31
J	731		814
K	450		475
L	450		475
N	375		380
O	302		382
P	12000		12000
Q	301		381
S	290		442
T	206		206
X	150		190
Y	175		225
Z	45		52
Weight(kg)	600		900
Hook block weight(kg)	50		85
Applicable Rail	12kg rails or 38mm steel square bars		15kg rails or 44mm steel square bars

# UM Type Series

5t・10t

**Traversing wheel with flange**  
(Only for flat rail)

**Traverse Motor**  
Squirrel-cage type  
with Class B insulation.

**Tie Bolts**  
Secured by a grooved nut and split pin.

**Applicable rail size**

Box Rail : width 300~350mm

**Control box**  
The cover can be  
opened and closed by  
one-touch operation.

**Electromagnet**  
Disk brake with an  
auto adjustment  
device

**Resistance unit**  

- Cement resistances are utilized for downsizing. (For hoist rated for 10 ton or less)
- Adoption of the connector system facilitates hoist work. (For hoists rated for 10 ton or less)

**Hoist Motor**  
High-resistance squirrel-cage motor with  
Class F insulation and ball bearings in  
heatproof grease.

**Hook block**  
Hook with an all-surface cover  
and a hook latch.

## Options

- Over loading monitor
- Guide roller
- Traversing limit switch

**Traverse deceleration section**  
Grease lubrication, simple 2-step  
deceleration, and totally enclosed structure.

**Traverse brake**  
Disk type DC brake  
The brake torque can be adjusted.

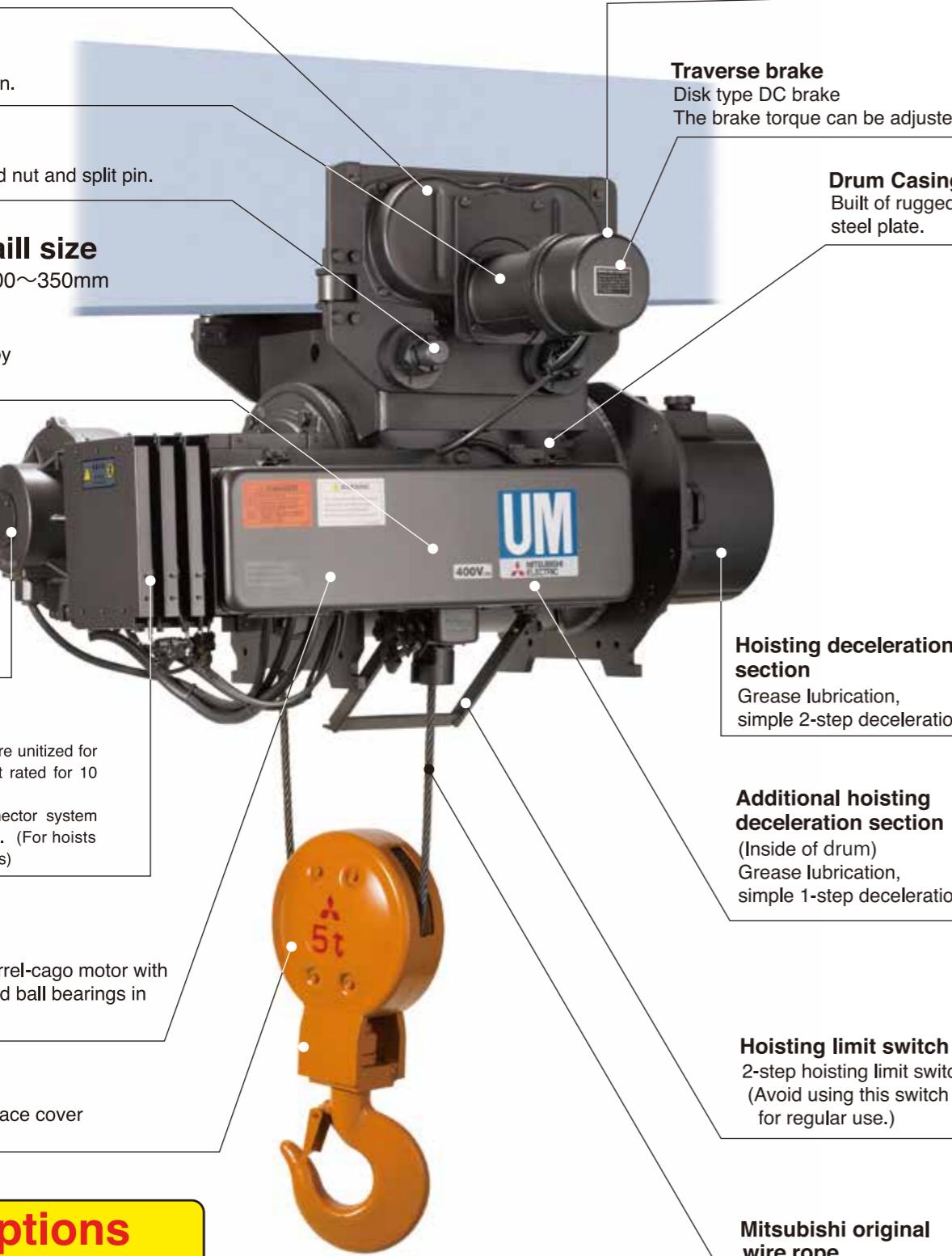
**Drum Casing**  
Built of rugged  
steel plate.

**Hoisting deceleration section**  
Grease lubrication,  
simple 2-step deceleration

**Additional hoisting deceleration section**  
(Inside of drum)  
Grease lubrication,  
simple 1-step deceleration

**Hoisting limit switch**  
2-step hoisting limit switch  
(Avoid using this switch  
for regular use.)

**Mitsubishi original  
wire rope**



\* Photo is an optional wearing product. Please refer for the optional details separately.

UM Type has been designed for optimizing price and performance.

Specifications											
Type	Capacity(t)	Wire rope		Hoisting			Traversing				
		Monorail type		Motor			Mono-rail			Double-rail	
		Lift(m)	Double rail type	Speed m/s (m/min)	Output (kW)	Rated Current (A)	Poles	Speed m/s (m/min)	Output (kW)	Rated Current (A)	Poles
UM	5	Mitsubishi original wire rope ※2	2 falls(2/1)	50 Hz	50 Hz	50 Hz	4	50 Hz	50 Hz	50 Hz	4
	10		4 falls(4/1)	12.5	—	—		21	0.5	1.5	
※1 Low lift models are not available ※2 Using non genuine wire ropes causes low safety factor has an increased risk of short product cycle											

● **Power supply**… 3-phase 380V 50Hz control 48V(24V is also available)

● **Operating method**… Push button switch operations.

Suspended type	5t・10t
Frame mounted type	4 Points
Motor operated traversing hoist	ON OFF U D※3 8 Points
	ON OFF U D E W S N

※3 "U" and "D" are 2 step push button.

● **Rating**… Hoisting : 40%ED(100% of load rating), 240S/Hr (FEM 9.683),※only 50Hz  
Traversing : 25%ED (100% of load rating), 150S/Hr ※only 50Hz

● **Power supply system**… Cable feeding, trolley feeding

● **Enclosure**… Simplified out door type(JIS C 9620 Equivalent to IP-44)

● **Applicable standard** … JIS C 9620 electric hoist/crane structure standard, FEM 9.683

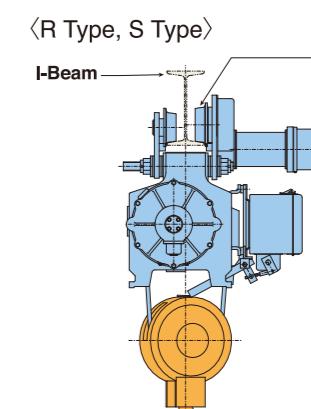
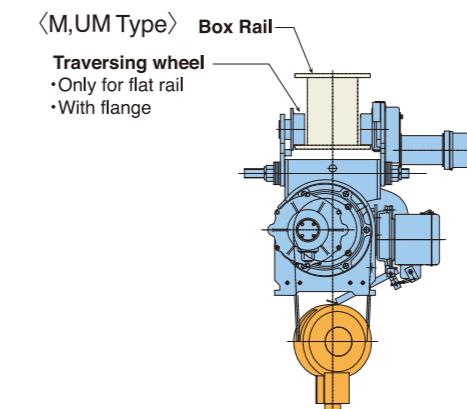
● **Hoist class(ISO 4301-1)** … M5

● **Color coating**… Main body : Metallic gray (Equivalent to Munsell N4.0)  
Hook block : Munsell 7.5YR 7/14  
Push button : Equivalent to Munsell 7.5YR 7/13

● **Ambient air temperature**… -10°C~40°C (Non condensing)

● **Ambient air humidity**… 90% or less (Non condensing)

## Traversing wheel and Applicable rail



**Traversing wheel**  

- Only for flat rail
- With flange

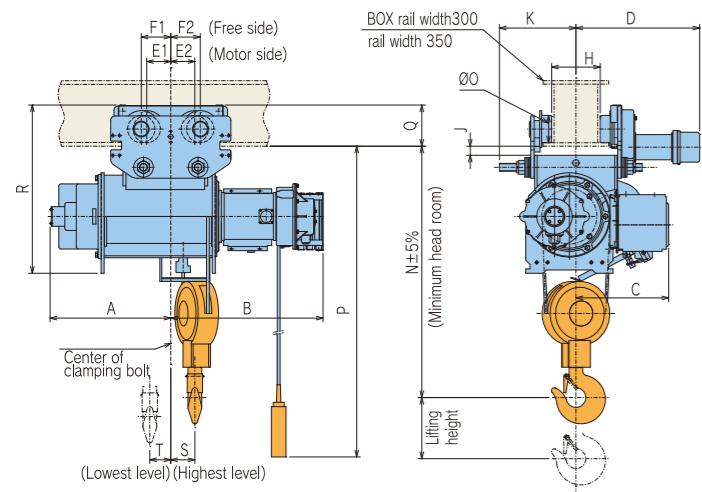
**R Type, S Type**

**I-Beam**

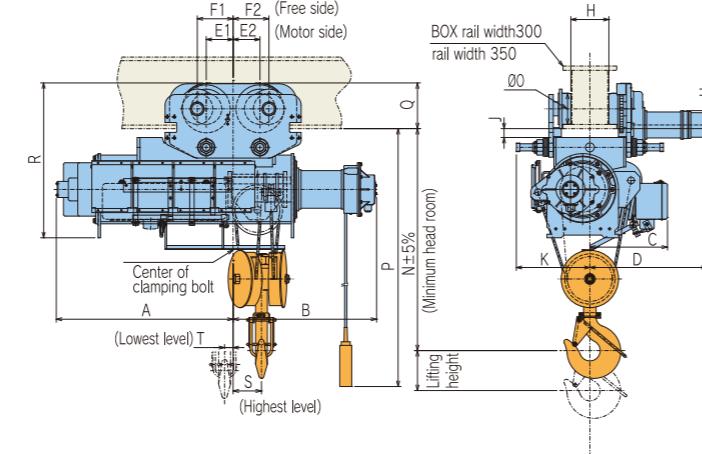
# Monorail Type UM

(5t·10t)

UM-5-HMH



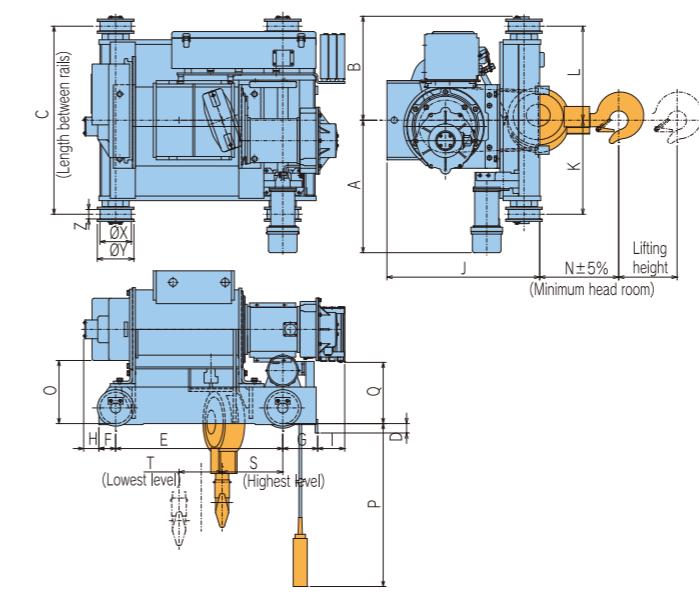
UM-10-HMH



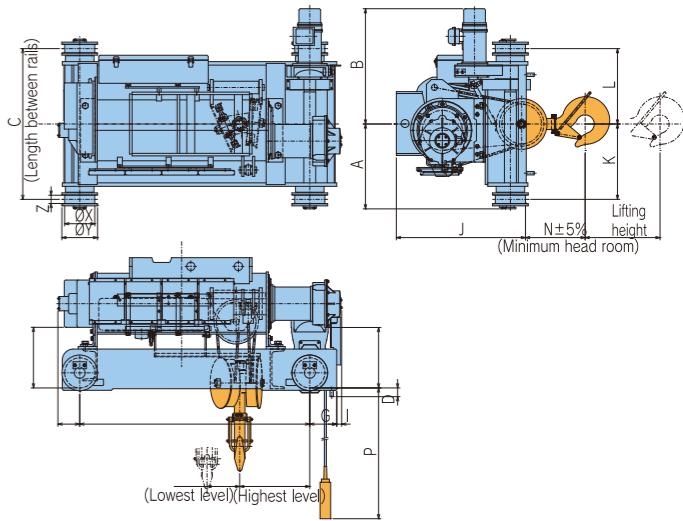
# Double rail Type UM

(5t·10t)

UM-5-HRH



UM-10-HRH



Model	UM-5-HMH	UM-10-HMH
Cap.(t)	5	10
Lift(m)	12	12
Dimensions(mm)	A	552
	B	697
	C	425
	D	566(591)
	E1	110
	E2	110
	F1	135
	F2	135
	H	222(272)
	J	—
	K	350
	N	1145
	O	125
	P	12000
	Q	—
	R	770
	S	110
	T	96
	U	—
Min.rad.curvature(m)	Only straight line	
Weight(kg)	555	890
Hook block weight(kg)	50	85
Applicable Box Rail Width(mm)	300(350)	300(350)

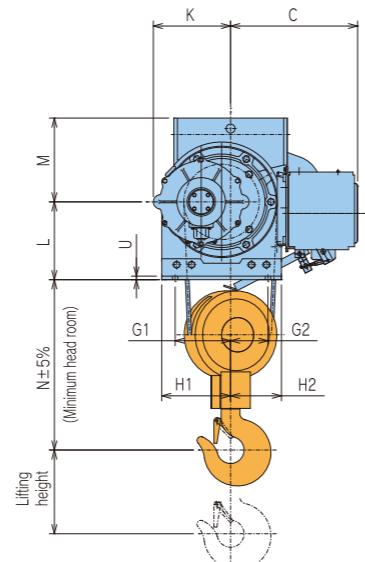
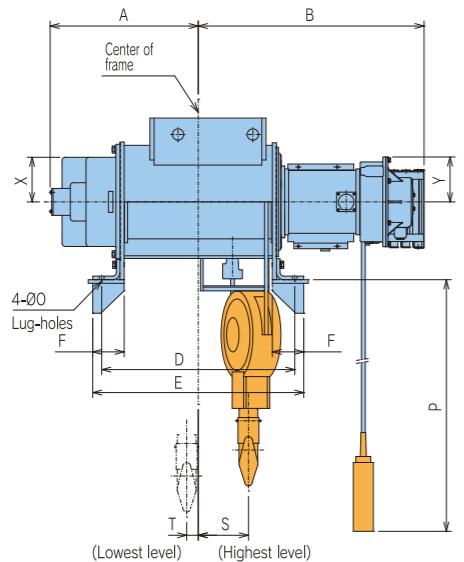
Model	UM-5-HRH	UM-10-HRH
Cap.(t)	5	10
Lift(m)	12	12
Dimensions(mm)	A	634
	B	498
	C	900
	D	45
	E	800
	F	80
	G	167
	H	73
	I	129
	J	731
	K	450
	L	450
	N	375
	O	302
	P	12000
	Q	290
	S	290
	T	206
	X	150
	Y	175
	Z	45
Weight(kg)	615	915
Hook block weight(kg)	50	85
Applicable Rail	12kg rails or 38mm steel square bars	15kg rails or 44mm steel square bars

# Frame mounted Type

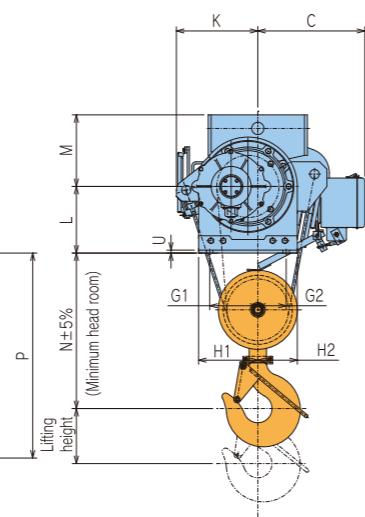
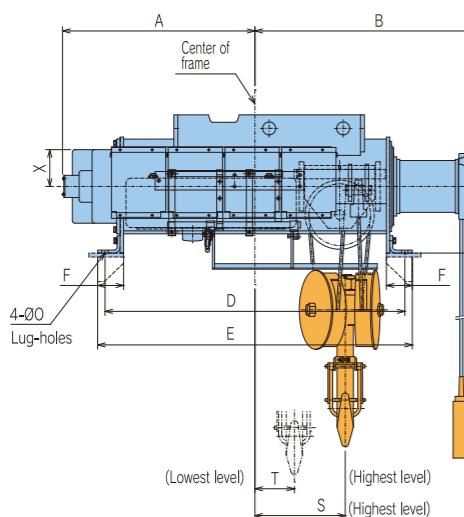
# UM

(5t·10t)

UM-5-HSH



UM-10-HSH



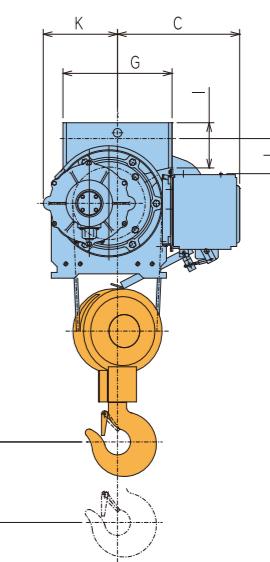
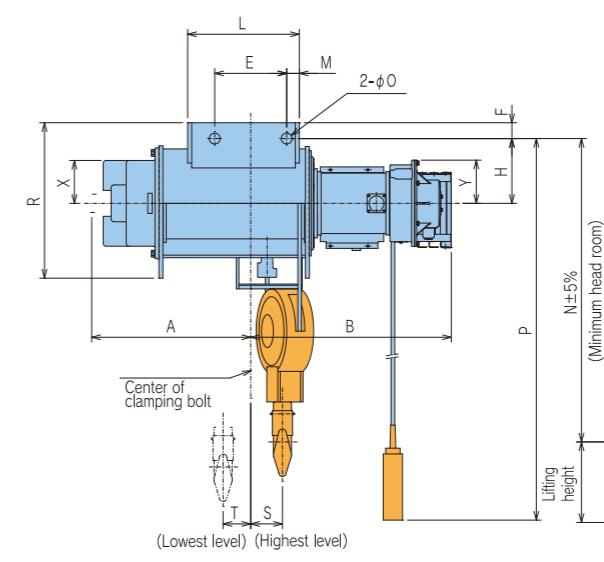
Model	UM-5-HSH	UM-10-HSH
Cap.(t)	5	10
Lift(m)	12	12
Dimensions(mm)	A	495
	B	754
	C	425
	D	645
	E	705
	F	105
	G1	185
	G2	125
	H1	230
	H2	170
	K	258
	L	260
	M	280
	N	570
	O	18
	P	12000
	S	168
	T	39
	X	150
	Y	150
Weight(kg)	455	660
Hook block weight(kg)	50	85

# Suspended mounted Type

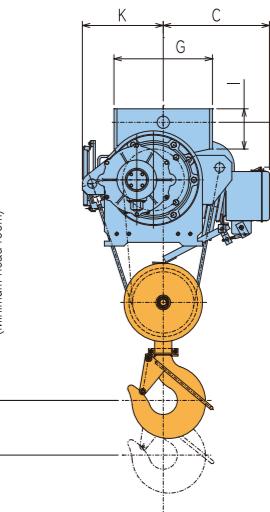
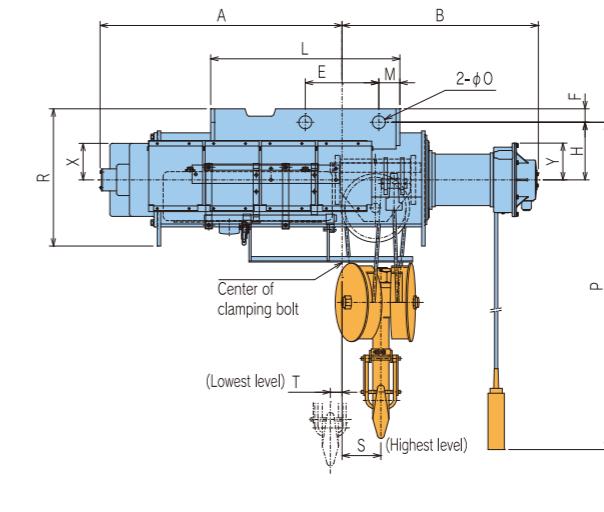
# UM

(5t·10t)

UM-5-HKH



UM-10-HKH



Model	UM-5-HKH	UM-10-HKH
Cap.(t)	5	10
Lift(m)	12	12
Dimensions(mm)	A	552
	B	697
	C	425
	E	250
	F	55
	G	379
	H	225
	I	157
	J	120
	K	258
	L	388
	M	44
	N	1055
	O	38
	P	12000
	R	540
	S	110
	T	96
	X	150
	Y	150
Weight(kg)	455	660
Hook block weight(kg)	50	85

# TIB Inverter control box for saddle motor

## Feature

### 1. Reduction of starting & stopping shock.

- The swing of load and building is reduced by the smooth inverter performance which restrains the shock of starting and stopping.

### 2. Settable traveling speed for efficient operation

- The optimal operation speed (High and Low speed) can be set in the range from 1/10 to standard speed.
- Inching and plugging operations are possible.

### 3. Small body and easy installation.

- TIB is equipped with a regenerative resistor unit as a standard equipment, and it can be installed directly to a crane girder with ease.

### 4. Improved ease of maintenance

- In case a defect occurs, the function that displays failure mode facilitates the judgment of locating fault.
- The main circuit (noncontact) enhances reliability and improves ease of maintenance.

### 5. Enhanced safety functions

- In addition to the conventional functions (over load, the protection of regenerative over voltage), the function of detecting input circuit fault is equipped as a standard.

### 6. Shared protection board function (TIB-S)

- Circuit breaker box and contactors for on and off (electric power supply) are standard equipment. The box can combine with shared protection board for crane.
- Screw holes are provided for the contactors of light, buzzer and etc.

## Standard specifications

Power supply	3-phase 200V 50/60Hz, 220V 60Hz	
Control system	Inverter control	
Speed ratio	The range of settable speed 1/10 ~ standard speed	
Operating method	Push button	
Operating functions	Inching & plugging operations are possible	
Percentage of duty cycle and number of starts per Hr (Allowable frequency of usage)	ED percent 25% ED	
Service condition	Air temperature	Number of starts per hour 250S/Hr
	Relative humidity	-10°C to 40°C (No congelation)
	Atmosphere	Ambient humidity 90% or less (Non condensation)
Enclosure	Non corrosive gas environment, non considerable dust environment	
Protective functions	Over load, over voltage in regenerative (braking)	
Power supply system	Cable feeding	
Color coating	Metallic gray (Equivalent to Munsell N4.0)	

\* Noises and other abnormalities may occur when installed on crane saddles or gear motors for crane saddle, which are produced by manufacturers other than us. Please contact us for further information.

\* Not equipped with a noise filter or an AC reactor. Install one as required.

\* The TIB-H (HS) 400V series is a special model. Please contact us for further information.

\* To use the product outdoors, install a rain-proof cover or prepare an equipment shelter.

\* Settings need to be changed according to acceleration/deceleration time calculated using the mass, rated load and travelling speed of the crane.

## Type name and applicable models

Type	Rated Current (A)	Applicable Mitsubishi models			
		Crane saddle		Gear motor for crane saddle	
		ST, SP series	MT, MP series	SGM-0.4A-LK3×2	SGM-0.4A-HK3×2
TIB-0.8(s)	5	Output of traveling motor Less than 0.4kW×2		SGM-0.4A-LK3×2	SGM-0.4A-HK3×2
TIB-2.2(s)	11	Output of traveling motor Less than 0.75kW×2		SGM-0.75A-LK3×2	SGM-0.75A-HK3×2
TIB-4.4(s)	22	Output of traveling motor Less than 2.2kW×2		SGM-1.5A-LK3×2	SGM-1.5A-HK3×2
				SGM-2.2A-LK2×2	SGM-2.2A-HK2×2
TIB-7.4(s)	33	Output of traveling motor Less than 3.7kW×2		SGM-3.7A-LK3×2	SGM-3.7A-HK3×2
TIB-11	46	Out of general purpose motor	Less than 5.5kW×2		
TIB-15	61	Out of general purpose motor	Less than 7.5kW×2		
TIB-22	90	Out of general purpose motor	Less than 11kW×2		
TIB-30	115	Out of general purpose motor	Less than 15kW×2		

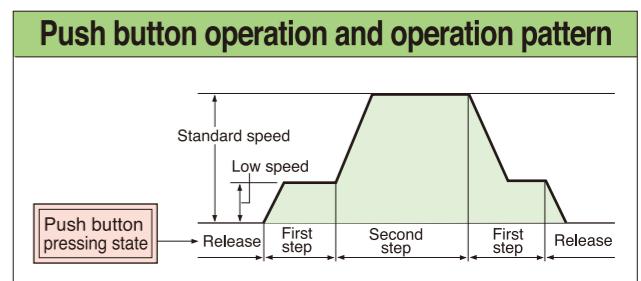
\* To use with the ST, SP and SGM series produced in 1987 and before, a special model compatible with a current brake is required.  
Please contact us for further information.

\* For types TIB-11 to TIB-30, a model equipped with a shared protection board function (S model) cannot be produced.

\* Please contact us for dimensional details.



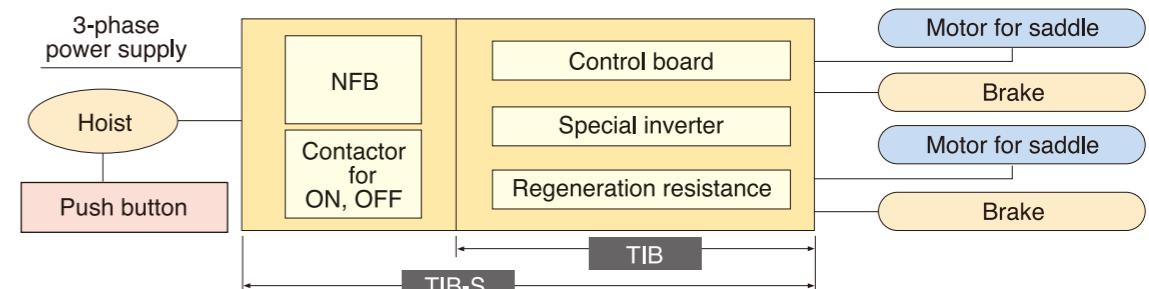
The picture is TIB-2.2



## TIB-S TYPE

Type	NFB for main power	Contactor for main power	Space for Light, Buzzer and contactor
TIB-0.8S	50A	S-N35	Screw holes are provided for a couple of S-N11 or S-N21.
TIB-2.2S	60A	S-N50	
TIB-4.4S	125A	S-N80	
TIB-7.4S	175A	S-N125	

## Function diagram





# Standard Hoist Push Button List

MEMO

Model	R	S		S-VT		S-VS		S-X	
Cap.	1~2.8t	1/2~3t	5~60t	1/2~3t	5~60t	1/2~3t	5~60t	1/2~3t	5~60t
Suspended Type	①	①	③	②	④	—	—	⑯	⑯
Frame mounted Type									
Monorail Type								⑯	⑯
Low-head Type	⑤	⑤	⑨	⑥	⑩	⑦	⑪		
Double Rail Type								⑯	⑯

Model	UR-H	UR-S	U-H	U-S	HU-H	HU-S	M	UM-H
Cap.	1~2.8t	1/2~2.8t	1/2~60t	1/2~45t	10~60t	10~45t	5t,10t	5t,10t
Suspended Type	④	—	④	—	④	—	③	③
Frame mounted Type								
Monorail Type								
Low-head Type	⑩	⑫	⑩	⑫	⑩	⑫	⑩	⑩
Double Rail Type								

	Points	No.	1	2	3	4	5	6	7	8	Applicable Models	Using Cable	Spare Lead
Standard Push button	2Points	①	U	D							R,S(1/2~3t)	VCT-CCH-0.75-3C	—
		②	U	D							S-VT(1/2~3t)	VCT-CCH-0.75-7C	1
	4Points	③	ON	OFF	U	D					S(5~60 t ),M(5t,10t)	VCT-CCH-0.75-5C	—
		④	ON	OFF	U	D					U-H(1/2~60 t ),UR-H	VCT-CCH-0.75-7C	1
											UM(5t,10t),S-VT(5~60 t )	VCT-CCH-0.75-12C	4
	6Points	⑤	U	D	E	W	S	N			R,S(1/2~3t)	VCT-CCH-0.75-7C	—
		⑥	U	D	E	W	S	N			S-VT(1/2~3t)	VCT-CCH-0.75-12C	1
		⑦	U	D	E	W	S	N			S-VS(1/2~3t)	VCT-CCH-0.75-12C	—
		⑧	U	D	E	W	S	N			U-S(1/2~3 t )	VCT-CCH-0.75-12C	2
	8Points	⑨	ON	OFF	U	D					S(5~60 t ),M(5t,10t)	VCT-CCH-0.75-12C	3
		⑩	ON	OFF	U	D	E	W	S	N	U-H(1/2~60 t ),UR-H	VCT-CCH-0.75-12C	2
											UM(5t,10t),S-VT(5~60t)	VCT-0.75-16C	3
		⑪	ON	OFF	U	D	E	W	S	N	S-VS(5~60t)	VCT-0.75-16C	2
	⑫	ON	OFF	U	D	E	W	S	N		U-S(1/2~60 t ),UR-S	VCT-CCH-0.75-12C	—
Explosion-proof (S-X) Push button	2Points	⑬	U	D							S-X(1/2~60t)	3PNCT-2.0-4C	—
	4Points	⑭	U	D	R	L					S-X(1/2~60t)	3PNCT-2.0-6C	—
	6Points	⑮	U	D	E	W	S	N			S-X(2.8~Except Double Rail Type)	3PNCT-2.0-6C	—
											S-X(2.8~Double Rail Type)	3PNCT-2.0-4C	—

Note 1 █=2step push button

2 VCT,VCT-CCH cable has push button hanging wire

3 Using 3PNCT cable is attached to with other hanging wire

4 Model

S-VT	With hoisting creep speed	UR-H	With hoisting inverter	U-H	With hoisting inverter
S-VS	With hoisting and traversing creep speed	UR-S	With hoisting and traversing inverter	U-S	With hoisting and traversing inverter
S-X	Explosion-proof	UM-H	With hoisting inverter	HU-H	<High speed>With hoisting inverter
				HU-S	<High speed>With hoisting and traversing inverter

## Correspond to the RoHS

Please contact us about the hoists which are accepted the RoHS