

■Hoist Type (Shapes)


Introduction of Products


## Crane related Equipment



Mitsubishi Electric Hoist Catalogue

The Mitsubishi Electric Hoists Applications and Selection Diagram
Basic term ofthe hoist (crane)

The selection of the model
Function code The viewpoint of the catalogue
Production model - 6
Product Oveview - 6
The description of $S$ type series'mechanic
al features
U2•HU2 Type $\quad 9$
S Type
UR•R Type
41
TIB
49
GM-A
51
LCV-B the most suitable hoist type
each customer's condition:

(1) Signs such as A or B grade stand for the application group of the crane structure standard.
2 C grade applied the hoist of S , U2, HU2 series lift more than 12 m .
 please specify the application group.

$\square$ Limit at allowable use freqency consection( $\square$ More than 7.5t, $\square$ Less than 5t)

| Operating hour of a day Rate of loading $\sim 1$ $\sim 2$ $\sim 4$ | $\sim 6$ | $\sim 8$ | $\sim 16$ | $16 \sim$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Light | Crane used normaly in under 50\% of the rated load |  |  |  |  |  |  |  |
| Moderate | Crane used normally from $50 \%$ to under $63 \%$ of the rated load |  |  |  |  |  |  |  |
| Heavy | Crane used normaly from $63 \%$ to under $80 \%$ of the rated load |  |  |  |  |  |  |  |
| Very <br> heavy | Crane used normaly in more than $80 \%$ of the rated load |  |  |  |  |  |  |  |

## 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.

Host ba
Hoisti
(1) Hoisting load

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

## (2) Rated Ioad

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 $\left\{\begin{array}{l}\text { Less than } 3 t \rightarrow 6 \mathrm{~m}\end{array}\right.$
- High lift 12 m
(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)


## 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 freqency 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 seledtion diagram of P3．）

## （2）Capacity

S series，U2 series：1／2－60t，HU2 series：10t－60t R series，UR series：1t－2．8t
（3）Lif
We have Low lift type and High lift type．As for the low lift， 6 m （more than $5 \mathrm{t}, 8 \mathrm{~m}$ ），the high lift is 12 m ．Mos models make both high lift and low lift．

## （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．）

## $\square$ Function code


＂2＂attaches for U－HU type

$$
\begin{aligned}
& \text { "A" atlaches for U(more than } 7.5 t \text { ) } \\
& \text { and HU type. }
\end{aligned}
$$

L：Low lift
H：High lift
All hoists with more than
12m become＂ H ＂．）
In the case of special hoists，the following code attaches to the en

| Special specifications | Code |
| :--- | :---: |
| With hoisting inverter | H |
| With hoisting and traversing inverter | S |
| With traversing inverter（S type，R type） | T |
| With gear type limit swich | G |

Special specifications

| Code | Code |
| :--- | :---: |
| With electric limit swich | E |
| With emergency brake | B |
| Explosion－proof type | X |

## The viewpoint of the catalogue

（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 dimentions），general weight，applicable I－Beams are described in it．Please warm being the model that the minimum radius curvatures grows big with the I－Bean of small size by the facia column of the applicable I－Beam

## Production model



High speed series＂HU2＂type and Explosion－proof series＂$S$－X＂type are also available．

## Production Overview Table

〈U2〉〈S〉Type

| Capacity（t） | $\begin{array}{c}\text { Motor Operated Traversing }\end{array}$ |  |  |  | Suspended Type |
| :---: | :---: | :---: | :---: | :---: | :---: |\(\left.⿻ \begin{array}{c}Frame mounted <br>

Type\end{array}\right]\)

## 〈HU2〉 Type

| Capacity（t） | Motor Operated Traversing |  |  | Suspended Type | Frame mounted Type |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Monorail Type | Low－head Type | Double Rail Type |  |  |
|  | LMHM | LD／HD | LR／HR | LK／HK | LS／HS |
| 10 | 8m／12m | 8m／12m | $8 \mathrm{~m} / 12 \mathrm{~m}$ | 8m／12m | $8 \mathrm{~m} / 12 \mathrm{~m}$ |
| 15 | $8 \mathrm{~m} / 12 \mathrm{~m}$ | － | 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 |  |
|  | LM／HM | LD／HD | LR／HR | LK／HK |
| 1 | $6 \mathrm{~m} / 12 \mathrm{~m}$ | $6 \mathrm{~m} /$ | - | $6 \mathrm{~m} / 12 \mathrm{~m}$ |
| 2 | $6 \mathrm{~m} / 12 \mathrm{~m}$ | $6 \mathrm{~m} /$ | - | $6 \mathrm{~m} / 12 \mathrm{~m}$ |
| 2.8 | $6 \mathrm{~m} / 12 \mathrm{~m}$ | $6 \mathrm{~m} / \mathrm{m}$ | $6 \mathrm{~m} /$ | $6 \mathrm{~m} / 12 \mathrm{~m}$ |

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


## 

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
body which features highest-in-class hoisting sp
durability, and withstands repeated operations.


Inverter hoist that develops new use and new field






Standard


Features of U2•HU2 type
Reduction of shock at
starting and stopping This feature reduces the shaking of the hoisting load and the building, facilitating delicate positioning.


Operation patterns changed by the


## Operation history display function

Failure history : When a failure occurs, stopping the hoist, this function helps to
display
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 Number of occurred are output. starts/loperating
hours display This display shows the hoist's working history. It is also usefu

U2 TYPE application examples


Facator builing with an oftice on the upper
level(The buiding 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 fucticton is usefult in automatic operations using a se-
quencer; for one of eight-stage inputs for either hoisting or quencer: for one of eight-stage inputs for either hoisting or
lowering a load, the machine can be operated at the de sired speed.
Position detection multi-point output
Using an ELS cirruit board, this function provides ope ration information on how the machine is being used. Rotation signal output sing a BTS circuit board, this function allows a two-ph
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 doestht stop the push-butlon of turning off a t once. II tstops as the cushion working, and operat
in
Cunsideration ot the stoping distance, lease



$(1 / 2 t \cdot 1 t \cdot 2.8 t \cdot 3 t \cdot 5 t)$
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$\mathrm{U} 2-1 \cdot 2 \cdot 2.8 \cdot 3$



Monorail Type
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U2-7.5A - 10A


U2-15A•20A



## Low-head Type

## $\mathrm{U} 2-1 / 2 \cdot 1 \cdot 2$

U2-2.8 - 3


| Model |  | U2-1/2 |  |  |  |  | U2-1 |  |  |  |  |  | U2-2 |  |  |  |  |  |  | U2-2.8(3) |  |  |  |  |  | U2-5 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | , | LDS |  | LDH2 |  | LDS2 | HD | H2\| | HDS | LDH2 LDS2\|HDH2 HDS2 |  |  |  |  |  |  | LDH3 [DS3 ${ }^{\text {\|HDH3 }}$ \| $\mathrm{HDS3}$ |  |  |  |  |  | LDH3 [LDS3\|HDH3 ${ }^{\text {HDS }}$ |  |  |  |  |
| Cap.(t) |  |  |  | 1/2 |  |  | , |  |  |  |  |  | 2 |  |  |  |  |  |  | 2.8 (3) |  |  |  |  |  | 5 |  |  |  |  |
|  |  | 6 |  |  |  |  |  | 6 |  |  | 12 |  |  |  | 6 |  |  | 12 |  |  |  | 6 |  | 12 |  | 8 |  |  | 12 |  |
|  | A | 433 |  |  |  |  |  | 44 |  |  | 611 |  |  |  | 457 |  |  | 635 |  |  |  | 472 |  | 62 |  | 810 |  |  |  |  |
|  | B | 528 |  |  |  |  |  | 61 |  |  | 784 |  |  |  | 668 |  |  | 847 |  |  |  | 71 |  | 86 |  | 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 |  |  |  |  |
|  | $\bigcirc$ | 73 |  |  |  |  | 80 |  |  |  |  |  | 114 |  |  |  |  |  |  | 114 |  |  |  |  |  | 125 |  |  |  |  |
|  | P | 6000 |  |  |  |  |  | 600 |  |  | 1200 |  | 6000 12000 |  |  |  |  |  |  | 6000 12000 |  |  |  |  |  | 8000 12000 |  |  |  |  |
|  | R | 410 |  |  |  |  | 495 |  |  |  |  |  | 588 |  |  |  |  |  |  | 643 |  |  |  |  |  | 676 |  |  |  |  |
|  | T | 66 |  |  |  |  | 58 |  |  |  |  |  |  |  |  | 95 |  |  |  | 108 |  |  |  |  |  | 115 |  |  |  |  |
| $\frac{\text { Min.rad curvature(m) }}{\text { Weight(kg) }}$ |  | 1.2 (4.0) |  |  |  |  | 1.8 (7.0) |  |  |  |  |  | 1.8 (5.0) |  |  |  |  |  |  |  |  |  |  |  |  | 6.3 |  |  |  |  |
|  |  |  | 150 |  | 150 |  |  | 200 |  |  | 215 |  |  |  | 305 |  |  | 340 |  | 405 [ 440 |  |  |  |  |  | 640 710 |  |  |  |  |
| Hook block weight(k) |  | 5.5 |  |  |  |  | 2 |  |  |  |  |  | 15 |  |  |  |  |  |  | 25 |  |  |  |  |  | 42 |  |  |  |  |
| 1 Brannel | dimenions | G | H | J | Q | $u$ | G |  | H |  | Q | $u$ |  | G | H | J | Q |  | $u$ |  | G | H | $J$ | Q | $u$ | G H H J J Q O |  |  |  |  |
|  | 5×5.5 | 364 | 30 | 19 | 101 | 75 | 360 |  | 24 | 1 | 140 | 105 | - |  |  |  |  |  |  | - |  |  |  |  |  | - |  |  |  |  |
| 3 근 200 | 00×7 | 376 | 54 | 20 | 101 | 125 | 372 |  | 482 | 1 | 140 | 155 |  | 453 | 40 | 26 | 167 |  | 140 | - |  |  |  |  |  | - |  |  |  |  |
| 颜 $250 \times$ | 25×7.5 |  |  |  |  |  | 385 |  | 74 | 9 | 142 | 203 |  | 465 | 64 | 24 | 169 |  | 188 |  | 465 | 64 | 26 | 169 |  | - |  |  |  |  |
| \% ${ }_{\text {¢ }}$ | 50×8 |  |  |  |  |  |  |  |  |  |  |  |  | 478 | 90 | 23 | 170 | 0 | 237 |  |  |  |  |  |  | - |  |  |  |  |
| \% 300 | 50×11.5 |  |  | - |  |  |  |  |  |  |  |  |  | 478 | 90 | 14 | 179 |  | 228 |  |  |  |  |  |  | 512 | 72 | 31 | 189 | 219 |
| 3 450 | 75×13 | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 96 | 27 | 193 | 365 |
| 600 | 90×13 | - |  |  |  |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



U2-7.5•10



[^0]
-17-

Double rail Type
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## U2-7.5A•10A




$-18$

## Suspended Type <br> 

$(1 / 2 t \cdot 1 t \cdot 2 t \cdot 2.8 t \cdot 3 t \cdot 5 t)$
※Contact us for 400V class outline U2-1/2•112 2 $2.8 \cdot 3 \cdot 5$


5t Type


| Model |  | U2-1/2 |  | U2-1 |  | U2-2 |  | U2-2.8(3) |  | U2-5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LKH2 | HKH2 | LKH2 | HKH2 | LKH2 | HKH2 | LKH3 | НКНз | LKH3 | НкНз |
|  |  | 1/2 |  | 1 |  | 2 |  | 2.8 (3) |  | 5 |  |
| Litt(m) |  | 6 | 12 | 6 | 12 | 6 | 12 | 6 | 12 | 8 | 12 |
|  | A | 315 | 486 | 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 |  |
|  | E | 170 | 230 | 230 | 230 | 230 | 230 | 230 | 230 | 290 |  |
|  | F | 28 | 33 | 33 |  | 38 |  | 43 |  | 60 | 61 |
|  | G | 140 | 117 | 117 |  | 151 |  | 176 |  | 229 |  |
|  | H | 155 |  | 160 |  | 177 |  | 215 |  | 225 |  |
|  | 1 | 75 | 78 | 63 |  | 67 |  | 80 |  | 105 | 106 |
|  | J | 3 |  | 12 |  | 21 |  | 89 |  | 114 |  |
|  | K | 151 |  | 167 |  | 190 |  | 216 |  | 236 |  |
|  | L | 283 | 493 | 298 | 518 | 323 | 508 | 323 | 523 | 725 | 975 |
|  | M | 32 | 42 | 670 |  | 47 | 75 | 46 | 77 | 217 | 342 |
|  | N | 570 |  |  |  | 800 |  | 965 |  | 905 |  |
|  | 0 | 20 | 24 | 24 |  | 33 |  | 33 |  | 38 |  |
|  | P | 6000 | 12000 | 6000 | 12000 | 6000 | 12000 | 6000 | 12000 | 8000 | 12000 |
|  | R | 328 | 333 | 373 |  | 425 |  | 518 |  | 546 |  |
|  | s | 50 | 93 | 71 | 105 | 58 | 101 | 60 | 97 |  |  |
|  | T | $58 \quad 87$ |  | 42 | 119 | 49 | 113 | 47 | 115 | - |  |
|  | X |  |  | 107 |  | 140 |  | 172 |  | 205 |  |
|  | Y | 83 |  | 105 |  | 150 |  | 150 |  |  |  |
|  | z | 20 |  | 36 |  | 30 |  | 30 |  | 30 |  |
|  | t(kg) | 100 | 110 | 145 | 160 | ${ }^{230} \underbrace{15}$ |  | 325 <br>  |  | 580 <br> 82 |  |
| Applicad | Beam(mm) | 4.5 |  | 7.5 |  |  |  |  |  |  |  |

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

## Suspended Type



## U2-15A - 20A



|  |  | . 5 |  | U2-10A |  |  |  | U2-20A-HKH6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LKH6 | НКН6 | LKH6 | HKH6 | LKH6 | HKH6 |  |
| $\begin{aligned} & \text { Cap.(t) } \\ & \hline \text { Litit(m) } \end{aligned}$ |  | 7.5 |  | 10 |  | 15 |  | 20 |
|  |  | 8 | 12 | 8 | 12 | 8 | 12 | 12 |
|  | A | 881 | 1006 | 949 | 1074 | 1045 | 1195 | 1243 |
|  | B | 1004 | 1129 | 959 | 1084 | 1085 | 1235 | 1235 |
|  | c | 458 |  | 493 |  | 558 |  | 583 |
|  | E | 300 |  | 320 |  | 620 | 800 | 800 |
|  | F | 55 |  | 60 |  | 80 |  | 100 |
|  | G | 252 |  | 252 |  | 225 |  | 225 |
|  | H | 255 |  | 290 |  | 365 |  | 410 |
|  | I | 120 |  | 120 |  | 178 |  | 217 |
|  | J | 45 |  | 100 |  | 73 |  | 118 |
|  | K | 497 |  | 528 |  | 430 |  | 455 |
|  | L | 796 | 1046 | 786 | 1036 | 831 | 1131 | 1131 |
|  | M | 440 |  | 460 |  | - |  | - |
|  | N | 1165 |  | 1380 |  | 1680 |  | 1800 |
|  | $\bigcirc$ | 47 |  | 53 |  | 78 |  | 103 |
|  | P | 8000 | 12000 | 8000 | 12000 | 8000 | 12000 | 12000 |
|  | R | 600 |  | 660 |  | 845 |  | 935 |
|  | X | 188 |  | 218 |  | 292 (to resister) |  | 322 (to resister) |
|  | Y | 152 |  | 220 |  | 220 |  | 220 |
|  |  | 700 | 770 | 1050 | 1150 | 1500 | 1650 | 2000 |
| Applicale | san(mm) | 80 |  | 100 |  | 190 |  | 280 |


$(1 t \cdot 2 t \cdot 2.8 t \cdot 3 t \cdot 5 t)$
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5t Type


\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|r|}{\multirow[b]{2}{*}{Model}} \& \multicolumn{2}{|c|}{U2-1} \& \multicolumn{2}{|c|}{U2-2} \& \multicolumn{2}{|c|}{U2-2.8(3)} \& \multicolumn{2}{|c|}{U2-5} <br>
\hline \& \& LSH2 \& HSH2 \& LSH2 \& HSH2 \& LSH3 \& HSH3 \& LSH3 \& HSH3 <br>
\hline \& \& \multicolumn{2}{|c|}{1} \& \multicolumn{2}{|c|}{2} \& \multicolumn{2}{|c|}{2.8 (3)} \& \multicolumn{2}{|r|}{5} <br>
\hline \multicolumn{2}{|r|}{Litit $(\mathrm{l}$} \& 6 \& 12 \& 6 \& 12 \& 6 \& 12 \& 8 \& 12 <br>
\hline \multirow{21}{*}{} \& A \& 321 \& 431 \& 352 \& 445 \& 373 \& 473 \& 685 \& 810 <br>
\hline \& B \& 518 \& 628 \& 577 \& 670 \& 658 \& 758 \& 830 \& 955 <br>
\hline \& C \& \multicolumn{2}{|c|}{345} \& \multicolumn{2}{|c|}{383} \& \multicolumn{2}{|c|}{408} \& \multicolumn{2}{|c|}{410} <br>
\hline \& D \& 385 \& 605 \& 420 \& 605 \& 430 \& 630 \& 850 \& 1100 <br>
\hline \& E \& 435 \& 655 \& 480 \& 665 \& 500 \& 700 \& 920 \& 1170 <br>
\hline \& F \& \multicolumn{2}{|c|}{75} \& \multicolumn{2}{|c|}{88} \& \multicolumn{2}{|c|}{99} \& \multicolumn{2}{|c|}{115} <br>
\hline \& G1.G2 \& \multicolumn{2}{|c|}{121/84} \& \multicolumn{2}{|c|}{141/109} \& \multicolumn{2}{|c|}{170/130} \& \multicolumn{2}{|c|}{175/45} <br>
\hline \& $\mathrm{H}_{1} \cdot \mathrm{H}_{2}$ \& \multicolumn{2}{|c|}{151/114} \& \multicolumn{2}{|c|}{178/145} \& \multicolumn{2}{|c|}{210/170} \& \multicolumn{2}{|c|}{220/190} <br>
\hline \& K \& \multicolumn{2}{|c|}{167} \& \multicolumn{2}{|c|}{190} \& \multicolumn{2}{|c|}{216} \& \multicolumn{2}{|c|}{236} <br>
\hline \& L \& \multicolumn{2}{|c|}{180} \& \multicolumn{2}{|c|}{225} \& \multicolumn{2}{|c|}{275} \& \multicolumn{2}{|c|}{260} <br>
\hline \& M \& \multicolumn{2}{|c|}{148} \& \multicolumn{2}{|c|}{157} \& \multicolumn{2}{|c|}{181} \& \multicolumn{2}{|c|}{206} <br>
\hline \& N \& \multicolumn{2}{|c|}{330} \& \multicolumn{2}{|c|}{410} \& \multicolumn{2}{|c|}{490} \& \multicolumn{2}{|c|}{420} <br>
\hline \& 0 \& \multicolumn{2}{|c|}{15} \& \multicolumn{2}{|c|}{19} \& \multicolumn{2}{|c|}{24} \& \multicolumn{2}{|c|}{28} <br>
\hline \& P \& 6000 \& 12000 \& 6000 \& 12000 \& 6000 \& 12000 \& 8000 \& 12000 <br>
\hline \& R \& \multicolumn{2}{|c|}{60} \& \multicolumn{2}{|c|}{70} \& \multicolumn{2}{|c|}{80} \& \multicolumn{2}{|c|}{90} <br>
\hline \& s \& 71 \& 182 \& 58 \& 165 \& 60 \& 166 \& \& <br>
\hline \& T \& 42 \& 42 \& 49 \& 49 \& 47 \& 47 \& \multicolumn{2}{|c|}{-} <br>
\hline \& U \& \multicolumn{2}{|l|}{18} \& \multicolumn{2}{|l|}{24} \& \multicolumn{2}{|l|}{27} \& \multicolumn{2}{|c|}{31} <br>
\hline \& x \& \multicolumn{2}{|c|}{107} \& \multicolumn{2}{|c|}{140} \& \multicolumn{2}{|c|}{172} \& \& <br>
\hline \& Y \& \multicolumn{2}{|c|}{105} \& \multicolumn{2}{|c|}{150} \& \multicolumn{2}{|c|}{150} \& \multicolumn{2}{|c|}{206} <br>
\hline \& z \& \multicolumn{2}{|c|}{36} \& \multicolumn{2}{|c|}{30} \& \multicolumn{2}{|c|}{30} \& \multicolumn{2}{|c|}{30} <br>
\hline \& t(kg) \& 125 \& 145 \& \multicolumn{2}{|l|}{\multirow[b]{2}{*}{15}} \& \multicolumn{2}{|l|}{\multirow[b]{2}{*}{${ }_{27}$}} \& \multicolumn{2}{|l|}{\multirow[t]{2}{*}{580

42}} <br>
\hline Hook bl \& wweight(k) \& \multicolumn{2}{|c|}{7.5} \& \& \& \& \& \& <br>
\hline
\end{tabular}




| Model |  | U2-7.5A |  | U2-10A |  | U2-15A |  | U2-20A-HSH6 | U2-30A-HSH6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LSH6 | HSH6 | LSH6 | HSH6 | LSH6 | HSH6 |  |  |
|  |  | 7.5 |  | 10 |  | 15 |  | 20 | 30 |
| Litit $(\mathrm{l})$ |  | 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 | 467 |
|  | L | 290 |  | 310 |  | 370 |  | 395 | 435 |
|  | M | 245 |  | 265 |  | 443 |  | 468 | 522 |
|  | N | 580 |  | 670 |  | 810 |  | 870 | 960 |
|  | 0 | 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 |
|  | okweight | 80 |  | 100 |  | 190 |  | 280 |  |

## Monorail Type (High speed type) <br> - - <br> (10t) <br> Contact us for

HU2-10A


HU2-15A - 20A


| Model | HU2-10A |  |  |  |  |  | HU2-15A |  |  |  |  |  | HU2-20A |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LMH6 |  | LMS6 | нмН |  | HMS6 | LMH |  | LMS6 | нм |  | HMS6 | HMH6 |  |  | HMS6 |  |  |
| Cap.(t) | 10 |  |  |  |  |  | 15 |  |  |  |  |  | 20 |  |  |  |  |  |
|  | 8 |  |  | 12 |  |  | 8 |  |  | 12 |  |  | 12 |  |  |  |  |  |
| A | 949 |  |  | 1074 |  |  | 1045 |  |  | 1195 |  |  | 1243 |  |  |  |  |  |
| B | 1055 |  |  | 1180 |  |  | 1205 |  |  | 1355 |  |  | 1355 |  |  |  |  |  |
| c | 513 |  |  |  |  |  | 558 |  |  |  |  |  | 583 |  |  |  |  |  |
| 0 | 328 |  |  |  |  |  | 300 |  |  |  |  |  | 328 |  |  |  |  |  |
| 震 | 296 |  |  |  |  |  | 270 |  |  |  |  |  | 296 |  |  |  |  |  |
| 总 G |  |  |  |  |  |  | 620 |  |  | 800 |  |  | 800 |  |  |  |  |  |
| $\frac{\stackrel{\rightharpoonup}{\vec{~}}}{\stackrel{\rightharpoonup}{7}}$ | 427 |  |  |  |  |  | 443 |  |  |  |  |  | 455 |  |  |  |  |  |
| $3{ }^{3} \mathrm{~N}$ | 1450 |  |  |  |  |  | 1930 |  |  |  |  |  | 2090 |  |  |  |  |  |
| - | 193 |  |  |  |  |  | 173 |  |  |  |  |  | 193 |  |  |  |  |  |
| P | 8000 |  |  | 12000 |  |  | 8000 |  |  | 12000 |  |  | 12000 |  |  |  |  |  |
| R | 988 |  |  |  |  |  | 1268 |  |  |  |  |  | 1398 |  |  |  |  |  |
| Min.rad.curature(m) | 5. |  | 12.5 | ${ }^{5.0} 1500$ |  |  | Straight line |  |  |  |  |  | Straight line |  |  |  |  |  |
| Weight(kg) | 1400 |  |  |  |  |  | 2400 \| 2550 |  |  |  |  |  | 3050 |  |  |  |  |  |
| Hook block weight(k) | 100 |  |  |  |  |  | 190 |  |  |  |  |  |  |  |  |  |  |  |
| 1-Baenrelated diresioiors | D | H | J | Q | U | v | D | H | J | Q | $\cup$ | $v$ | D | H | J | Q | $u$ | v |
| $400 \times 150 \times 1.5$ | 604 | 54 | 49 | 279 | 141 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 A. | 617 | 78 | 49 | 279 | 141 | 32 | 590 | 85 | 49 | 254 | 117 | 347 | 616 | 78 | 49 | 279 | 141 | 451 |
| $600 \times 100 \times 13$ | 624 | 94 | 50 | 278 | 140 | 33 | 598 | 100 | 50 | 253 | 116 | 348 | 624 | 94 | 50 | 278 | 140 | 452 |

Frame mounted (High speed type)

(10t-15t-200t-30t)
Contact us for HU2-10A • 15A • 20A - 30A


| Model |  | HU2-10A |  | HU2-15A |  | U2- | H2-3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LSH6 | HSH6 | LSH6 | HSH6 | HSH6 | HSH6 |
|  |  | 10 |  | 15 |  | 20 | 30 |
|  |  | 8 | 12 | 8 | 12 | 12 | 12 |
|  | A | 949 | 1074 | 1045 | 1195 | 1243 | 1456 |
|  | B | 1055 | 1180 | 1205 | 1355 | 1355 | 1405 |
|  | C | 553 |  | 633 |  | 663 | 713 |
|  | D | 920 | 1170 | 960 | 1260 | 1260 | 1380 |
|  | E | 1010 | 1260 | 1080 | 1380 | 1380 | 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 |
|  | 0 | 35 |  | 47 |  | 47 | 54 |
|  | P | 8000 | 12000 | 8000 | 12000 | 12000 | 12000 |
|  | R | 120 |  | 130 |  | 140 | 150 |
|  | U | 35 |  | 41 |  | 41 | 49 |
|  | X | 302 (tor resister) | 218 | $\frac{275}{220}$ |  | 308 | 320 |
|  | Y | 220 |  |  |  | 220 | 220 |
|  | z | 53 |  | 70 |  | 70 | 80 |
|  | t(kg) | 1200 | 1300 | 1700 | 1850 | 2200 | 3500 |
|  | weightly | 100 |  | 190 |  | 280 | 380 |

## Double rail Type(High speed type) <br> $\mathrm{H}_{2}$ <br> (10t•15t $\cdot 20 t \cdot 30 t$ ) <br> Contact us for 400 V class outline

Double rail Type(High speed type)


| 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 |  |
|  |  | 8 |  | 12 |  | 8 |  |  | 12 |  | 12 |  | 12 |  |
|  | A | 949 |  | 1074 |  | 1045 |  |  | 1195 |  | 1243 |  | 1456 |  |
|  | B | 1055 |  | 1180 |  | 1205 |  |  | 1355 |  | 1355 |  | 1405 |  |
|  | c |  | 950 | 120 |  |  | 1000 |  | 130 |  | 1300 |  | 1400 |  |
|  | E | 840 |  |  |  | 1000 |  |  |  |  | 1045 |  | 1190 |  |
|  | F | 170 |  |  |  | 220 |  |  |  |  |  |  | 220 |  |
|  | G | 253 |  |  |  | 243 |  |  |  |  | 248 |  | 246 |  |
|  | H | 613 |  |  |  | 760 |  |  |  |  | 790 |  | 850 |  |
|  | 1 | 650 |  |  |  | 703 |  |  |  |  | 723 |  | 806 |  |
|  | J | 753 |  |  |  | 813 |  |  |  |  | 824 |  | 868 |  |
|  | N | 710 |  |  |  | 860 |  |  |  |  | 910 |  | 1020 |  |
|  | 0 | 38 |  |  |  | 30 |  |  |  |  | 32 |  | 15 |  |
|  | P |  | 800 | 1200 |  |  | 3000 |  | 1200 |  |  |  | 12000 |  |
|  | Q | 30 |  |  |  | 85 |  |  |  |  |  |  | 115 |  |
|  | R | 82 |  |  |  | 84 |  |  |  |  |  |  | 89 |  |
|  | s | 55 |  |  |  | 55 |  |  |  |  |  |  | 4580 |  |
|  | T | 53 |  |  |  | 70 |  |  |  |  |  |  |  |  |
|  | v | 100 100 |  |  |  | 110 |  |  | 135 |  |  |  | 150 |  |
|  | w |  | 620 | 870 |  |  | 660 |  | 960 |  |  |  | 990 |  |
|  | X | 190 |  |  |  | 250 |  |  |  |  |  |  | 250 |  |
|  | Y | 225 |  |  |  | 285 |  |  |  |  |  |  | 285 |  |
|  | z | 52 |  |  |  | 58 |  |  |  |  |  |  |  |  |
| Weight(kg) |  | 1450 1560 |  |  |  | 2200 |  |  | 2400 |  | 2800 |  | 3900 |  |
| $\frac{\text { Hook block weight(kgo }}{\text { Applicade e }}$ (Baan(mm) |  | 15 kg rails or 44mm steel square bars |  |  |  | $\frac{190}{22 \mathrm{~kg} \mathrm{rails} \mathrm{or} 50 \mathrm{~mm} \text { steel squa }}$ |  |  |  |  | ${ }^{280}$ |  | ${ }_{\text {3ly }} \frac{380}{}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


$N \pm 100 \quad$ L


| Model |  | U2-40A |  | HU2-40A |  | U2-45A |  | HU2-45A |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LRH6 | HRH6 | LRH6 | HRH6 | HRH6 | HRH6 | HRH6 | HRH6 |
|  |  | 40 |  | 40 |  | 45 |  | 45 |  |
| Litt(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 |  | 2114 |  | 2114 |  |
|  | F | 287 |  | 287 |  | 520 |  | 520 |  |
|  | G | 287 |  | 287 |  | 350 |  | 350 |  |
|  | H | 681 |  | 681 |  | 807 |  | 807 |  |
|  | 1 | 619 |  | 619 |  | 670 |  | 670 |  |
|  | J | 1055 |  | 1055 |  | 1200 |  | 1200 |  |
|  | N | 1110 |  | 1110 |  | 1450 |  | 1450 |  |
|  | P | 7500 | 12500 | 7500 | 12500 | 11000 | 16000 | 11000 | 16000 |
|  | T | 81 |  | 81 |  | 637 |  | 637 |  |
|  | x | 350 |  | 350 |  | 350 |  | 350 |  |
|  | Y | 419 |  | 419 |  | 419 |  | 419 |  |
|  | z | - |  | - |  | 75 |  | 75 |  |
|  |  | 5000 | 5500 | 5100 | 5600 | 6200 | 6700 | 6300 | 6800 |
| Hookb | veight(k) | 750 |  | 750 |  | 730 |  | 730 |  |

- 26 -

※2 Please contact us for 60 separatty
$\times 3$ Rope specification of 12 2falls is $6 \times$ FFi(29)
OPower supply $\cdots \cdots$ - 3 -phase $200 \mathrm{~V} 50 / 60 \mathrm{~Hz}$ control $200 \mathrm{~V}, 220 \mathrm{~V} 60 \mathrm{~Hz}$ control 220 V
( 400 V class is also available) $\cdots 3$-phase $400 \mathrm{v} 50 / 60 \mathrm{~Hz}$ control $200 \mathrm{~V}, 440 \mathrm{~V} 60 \mathrm{~Hz}$ control 220 V
-Operating method $\cdots \cdots$. Push button switch operations $\begin{gathered}3-\text { phase } \\ 380 \mathrm{~V} \\ 50 \mathrm{~V} \\ \text { ( } 100 \mathrm{~V} \text { and } 24 \mathrm{~V} \text { are also available) }) ~\end{gathered}$
- Operating method $\cdots \cdots$....Push button switch operations

|  | $1 / 2 \sim 3 \mathrm{t}$ | $5 \sim 45 \mathrm{t}$ |
| :---: | :---: | :---: |
| Suspended type | 2 Points | 4 Points |
| Frame mounted type | UD | ON OFF UD |
| Motor operated traversing hoist | 6 Points | 8 Points |
|  | UDEW S N | ON OFF UD E W S |

## Rating ‥30 min.(JIS C 9620

-Power supply system $\cdots$ Both trolley feeding and cable feeding are available. However, neiter trolley
-Enclosure...Conforming to JIS C 4004 drip

- Enclosure $\cdots$ Conforming to JIS C 4004 drip-proof type(simplified outdoor type)
- Color coating $\cdots$ Main body:Metallic gray (Equivalent to Munsell N 4.0 )

Hook block:Munsell7.5YR7/14
Pushbutton:Equivalent to Munsell7.5YR7/13

- Ambient air temperature $\cdots-10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ (Non congelation
Ambient air humidity $\cdots 90 \%$ or less(Non condensing)

(Shape of S-1/2-HM)


Note: in the case of troley electric
supppy type, balance weight is re-
quired.

## $\mathrm{S}-1 \cdot 2 \cdot 2.8 \cdot 3$ <br> S-1.2.8.



S-5



## Monorail Type

$7.5 t \cdot 10 t \cdot 15 t \cdot 20 t)$

S-7.5 - 10




N

Low-head Type

$1 / 2 t \cdot 1 t \cdot 2 t \cdot 2.8 t \cdot 3 t \cdot 5 t$






| Model |  | S-2.8(3) |  | s-5 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LR3A | HR3A | LR3A | HR3A |
|  |  | 2.8 (3) |  | 5 |  |
| Litt(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 |  |  |  |
|  | H | 468 |  | 517 |  |
|  | 1 | 605 |  |  |  |
|  | J | 410 |  | 541 |  |
|  | N | 345 |  | 346 |  |
|  | 0 | 52 |  | 346125 |  |
|  | P | 6000 | 12000 | 8000 | 12000 |
|  | Q | 75 |  | 129 |  |
|  | R | 63 |  | 65 |  |
|  | s | 35 |  | 40 |  |
|  | T |  |  | 30 |  |
|  | v | 135 | 130 | 97 | 100 |
|  | w | 453 | 753 | 590 | 840 |
|  | X | 150 |  | 150 |  |
|  | Y | 175 |  | 175 |  |
|  | z | 45 |  |  |  |
|  | (kg) | 425 | 475 | 660 | 740 |
| Hook blo | veight(k) | 25 |  | 42 |  |

$-33-$

-34-

Double rail Type



Double rail Type



Frame mounted Type
$\mathrm{S}-1 \cdot 2 \cdot 2.8 \cdot 3 \cdot 5$

(Shape of 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 |  |
| Litt(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 |  | 175/45 |  |
| H1/H2 | 151/114 |  | 178/445 |  | 210/170 |  | 220/190 |  |
| $\bigcirc$ | 23 |  | 33 |  | 93 |  | 125 |  |
| 咅 K | 167 |  | 190 |  | 216 |  | 236 |  |
| 旁 L | 180 |  | 225 |  | 275 |  | 260 |  |
|  | 136 |  | 151 |  | 181 |  | 206 |  |
| 3 N | 330 |  | 410 |  | 490 |  | 420 |  |
| $\bigcirc 0$ | 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 |  |  |  |
| Y | 105 |  | 150 |  | 150 |  | 206 |  |
| z | 36 |  | 30 |  | 30 |  | 30 |  |
| Weight(kg) | 115 | 135 | 175 | 215 | 305 | 345 | 510 | 580 |
| Hook block weightikg) | 7.5 |  | 15 |  | 27 |  | 42 |  |



| Model |  | \$-7.5 |  | s-10 |  | S-15 |  | $\mathrm{s}-20 \mathrm{HS}$ | $\mathrm{S}-30 \mathrm{HS}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LS | HS | Ls | HS | Ls | HS |  |  |
|  |  | 7.5 |  | 10 |  | 15 |  | 20 | 30 |
| Litt(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 |
|  | 0 | 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 |
|  |  | 152 |  | 220 |  | 220 |  | 220 | 220 |
|  | z | 50 |  | 53 |  | 70 |  | 70 | 80 |
|  |  | 650 | 720 | 1000 | 1100 | 1400 | 1550 | 1900 | 3200 |
| Hookble | eight(k) | 80 |  | 100 |  | 190 |  | 280 | 380 |

## Suspended Type (1/2t•1t-2t•2.8t-3t-5t)

$\mathrm{S}-1 / 2 \cdot 1 \cdot 2 \cdot 2.8 \cdot 3 \cdot 5$


## Suspended Type <br> $(7.5 t \cdot 10 t \cdot 15 t \cdot 20 t)$

S-7.5 $10 \cdot 15 \cdot 20$


For 15 t and 20t. apply above figure

| Model |  | s-7.5 |  | S-10 |  | S-15 |  | $\mathrm{s}-20-\mathrm{HK}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LK | нк | LK | нK | LK | нK |  |
|  |  | 7.5 |  | 10 |  | 15 |  | 20 |
| Litit $m$ ) |  | 8 | 12 | 8 | 12 | 8 | 12 | 12 |
|  | A | 669 | 794 | 719 | 844 | 799 | 949 | 999 |
|  | B | 1004 | 1129 | 959 | 1084 | 1085 | 1235 | 1235 |
|  | c | 458 |  | 493 |  | 558 |  | 583 |
|  | E | 300 |  | 320 |  | 620 | 800 | 800 |
|  | F | 55 |  | 60 |  | 80 |  | 100 |
|  | G | 252 |  | 252 |  | 225 |  | 225 |
|  | H | 255 |  | 290 |  | 365 |  | 410 |
|  | I | 120 |  | 120 |  | 178 |  | 217 |
|  | J | 77 |  | 132 |  | 167 |  | 237 |
|  | K | 215 |  | 245 |  | 295 |  | 320 |
|  | L | 796 | 1046 | 786 | 1036 | 831 | 1131 | 1131 |
|  | M | 440 |  | 460 |  | - |  | - |
|  | N | 1165 |  | 1380 |  | 1680 |  | 1800 |
|  | - | 47 |  | 53 |  | 78 |  | 103 |
|  | P | 8000 | 12000 | 8000 | 12000 | 8000 | 12000 | 12000 |
|  | R | 600 |  | 660 |  | 845 |  | 935 |
|  | X | 188 |  | 218 |  | 275 |  | 308 |
|  | Y | 152 |  | 220 |  | 220 |  | 220 |
| Weight(kg) |  | 650 | 720 | 1000 <br> 100 <br> 100 |  | 1400 | 1550 | 1900 |
|  |  | 80 |  |  |  |  |  | 280 |

-40-

## Type Series Inverter hoist 1t~2.8t

Inverter technology and creep speed technology are combined to make a variable speed hoist for twenty-first century.

$\square$ Moving pattern by push button operation


## 400 V class debut

The inside of Control box


Operation image of inverter hoist



- Excellent Operativeness
-Improvement of maintenance
-Effect of conservation of energy
-Excellent cost performance

The new control system which combines Inverter operation and conactor operation for the first time in the industry realises smooth oper ativeness and quick response of stop and speed reduction. In addition, hoist with traversing inverter, high speed can be selected from 4 speed ypes and low speed can be selected from 2 speed types, In comparison with the conventional creep type, the setting range is wider. companson wh he conventonal creep type, the seltng range is wider. ince its structure part is the same as general purpose hoist, the num er of parts decreased signicantly compared wit the co ventiona are made into one board.
s UR type does not use a regenerative resistor it is more powe saving compared to U type. The durability of its brake disk becomes about double in comparison with that of the conventional creep type.

| Features(comparison with the U series, conventional creep type hoist) |  |  |  |
| :---: | :---: | :---: | :---: |
| Item | UR series | Conventional creep type | U series |
| Control system (Lifting/Lowering) | Inverter and contactor operation Liting(bboth low and high speed): Tinverter control <br> Lowering at high <br> 解 | contactor operation <br> 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 $25,20,15$, $10 \mathrm{~m} / \mathrm{min}$ <br> Low speed: select from 2.5, $5 / \mathrm{min}$ | 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 |





|  | ecif | ati |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\nabla}{\stackrel{\rightharpoonup}{\top}}$ |  | $\begin{aligned} & \text { 空 } \\ & \hline \end{aligned}$ |  | Wire rope |  |  | Hoisting |  |  |  |  | Traversing |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Mono-rail - Low hearoom | Double-rail |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | Speed (m/min) |  | Motor |  |  | Speed (m/min) |  | Motor |  |  | Speed (m/min) |  | Motor |  |  |
|  |  |  |  | $\begin{aligned} & \text { Output } \\ & (\mathrm{kW}) \end{aligned}$ |  |  | $\begin{aligned} & \stackrel{\circ}{\circ} \\ & \stackrel{\oplus}{\circ} \end{aligned}$ | Output (kW) |  | $\underset{\text { D }}{\stackrel{\circ}{\varnothing}}$ | Output (kW) |  | $\stackrel{\text { 잉 }}{\text { ¢ }}$ |  |  |  |  |
|  |  | $\stackrel{\text { ¢ }}{\text { ¢ }}$ | $\stackrel{\text { İ }}{\substack{\text { º }}}$ |  | $\begin{aligned} & \stackrel{N}{N} \\ & \stackrel{\rightharpoonup}{\vec{T}} \end{aligned}$ |  |  | $\stackrel{\stackrel{\stackrel{\rightharpoonup}{7}}{\stackrel{\rightharpoonup}{5}}}{\underline{\bar{s}}}$ | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ |  | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ |  |  |  | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 50 \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 60 \\ & \mathrm{~Hz} \end{aligned}$ |
|  | 1 |  |  | $\begin{aligned} & \phi 8 \\ & * 1 \end{aligned}$ | $\begin{gathered} \phi \\ 6.3 \end{gathered}$ |  | $6 \times W(19)$ <br> B class JIS-G3525 | 6.7 | 8 | 1.2 | 1.4 |  |  |  | 0.22 | 0.26 |  | - | - | - | - | - |
| R | 2 | 6 | 12 | $\begin{gathered} \phi \\ 10 \end{gathered}$ | $\phi 8$ |  |  |  | 2.2 | 2.6 | 4 | 21 | 25 |  |  | 4 | - | - | - | - | - |  |  |
|  | 2.8 |  |  | $\begin{gathered} \phi \\ 12.5 \end{gathered}$ | $\phi 9$ |  |  |  | 3 | 3.6 |  |  |  |  |  |  | 21 | 25 | 0.5 | 0.6 | 4 |  |  |


| Standard specifications | -Power supply $\cdots 3$-phase $200 \mathrm{~V} 50 / 60 \mathrm{~Hz}$ control 200 V , 220 V 60 Hz control 220 V ( 400 V class is also available) $\cdots 3$-Phase $400 \mathrm{~V} 50 / 60 \mathrm{~Hz}$ control $200 \mathrm{~V}, 440 \mathrm{~V} 60 \mathrm{~Hz}$ control 220 V <br> 3-Phase 380 V 50 Hz control 48 V ( 100 V and 24 V are also abailable) <br> -Operating method $\cdots$ Push button switch operations. |  |
| :---: | :---: | :---: |
|  | Suspended type Frame mounted type | 1/2~3t |
|  |  | 2 Points |
|  |  | UD |
|  | Motor operated traversing hoist | 6 Points |
|  |  | UDEWSN |
|  | -Rating $\cdots 30$ min. (JIS C 9620) <br> -Power supply system $\cdots$ Both trolley feeding and cable feeding are available. Howeve, neither trolley nor cable is attached. <br> -Enclosure $\cdots$ Simplified outdoor type(JISC 0920, Equivalent to IP44) |  |
|  |  |  |
|  |  |  |
|  | (Rainproof cover is required, when it is used in the open air.) OApplicable standard $\cdots$ JIS C 9620 electric hoist/crane structure standard |  |
|  |  |  |
|  | - Color coating …Main body:Metallic gray (Equivalent to MunselliN4.0) |  |
|  | Hook block:Munsell 7.5YR7/14 |  |
|  | Pushbutton:Equivalent to Munsell $7.5 \mathrm{YR7/14}$ |  |
|  | - Ambient air temperature $\cdots-10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ (Non congelation) |  |
|  | - Ambient relative humidity $\cdots 90 \%$ or less (Non condensing) |  |
|  | Note:These hoists cannot be used for lift (elevator for passengers.) |  |

## Monorail Type <br> $-D \circ D$



| Mod |  |  |  |  |  | $\begin{aligned} & \text { UR-1-1-HNN} \\ & \begin{array}{l} \text { UR-1-HN } \\ R-1-H 0 \end{array} \end{aligned}$ |  |  |  |  | $\begin{aligned} & U R-2-2 H \\ & U_{1}=-2-2 H \end{aligned}$ |  |  |  |  | UR-2.8. UR-2.8- R-2.8. | $\begin{aligned} & \text { HMH2 } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cap.(t) |  |  | 1 |  |  |  |  | 2 |  |  |  |  | 2.8 |  |  |  |  |
| Litt(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 |  |  |  |  |
|  |  | $01 / 0_{2}$ | 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$3.0 /(7.5)$ |  | 47 |  |  | 130 |  | 65 |  |  | 150 |  |
| $\frac{\text { Min.rad.curvature(m) }}{\text { Weight(kg) }}$ |  |  | $1.8(3.0) /(4.5)$ |  |  |  |  | $\frac{3.5 /(8.5)}{260}$ |  | $\frac{2.5 /(6)}{320}$ |  |  | $\frac{3.5 /(8.5)}{360}$ |  |
|  |  |  | 150 |  |  | 170 |  |  |  |  |  |  |  |  |
| Hook block weight(kg) |  |  | 7.5 |  |  |  |  | 15 |  |  |  |  | 27 |  |  |  |  |
| 1 -Beam related dimensions |  |  | D | H | J | Q | $u$ | D | H |  |  |  | J | Q | $u$ | D | H | J | Q | $\cup$ |
| 咅 | $150 \times 75 \times 5.5$ |  | 360 | 24 | 33 | 140 | 105 | - | - | - | - | - | - | - | - | - | - |
|  | $200 \times 100 \times 7$ |  | 372 | 48 | 33 | 140 | 155 | 453 | 40 | 31 | 167 | 140 | - | - | - | - | - |
|  | $250 \times 125 \times 7.5$ |  | 385 | 74 | 31 | 142 | 203 | 465 | 64 | 29 | 169 | 188 | 465 | 64 | 24 | 169 | 188 |
|  | $300 \times 150 \times 11.5$ |  |  |  |  |  |  | 478 | 90 | 19 | 179 | 228 | 478 | 90 | 14 | 179 | 228 |
|  | $\frac{450 \times 175 \times 13}{600 \times 190 \times 13}$ |  | - |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

R-1, UR-1 $1150 \times 75 \times 5.5 \quad 4 . \square$ required special attachme
2.Applicable 1-Beam $\square=$ Standard

Min.rad.cur [ ] UR Type wietavesing

## Double rail Type

$D-D$


| Model |  | $\begin{gathered} \text { UR-2.8-LRH2A } \\ \text { UR-2.8-LRSNA } \\ \text { R-2.8-LR2A } \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Cap.(t) |  | 2.8 |  |  |
| Litt(m) |  | 6 |  |  |
|  | A | 437 | K | 30 |
|  | B | 695 | L | 165 |
|  | c | 650 | N | 233 |
|  | E | 660 | P | 6000 |
|  | F | 175 | s | 15 |
|  | G | 110 | T | 15 |
|  | H | 535 | X | 150 |
|  | 1 | 470 | Y | 175 |
|  | J | 556 | z | 45 |
| Weight(kg) |  | 435 |  |  |
| Hook block weight(kg) |  | $\frac{25}{12 \mathrm{~kg} \text { rails or 38mm steel square bars }}$ |  |  |
|  |  |  |  |  |

## TIB Inverter control box <br> 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 th ock of starting and stopping.

## . 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 that displays failure mode facilita
the judgment of locating fault. The main circuit (noncontact) enhances reliability and improves ease of maintenance.
5. Ehhanced safty functions

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


## 6. Shared protection

board function (TIB-S) - Circuit breaker box and contactors for 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.
holes are provided for the contactors of light, buzzer and etc.

## Type name and applicable models

| Type | Applicable Mistsubishi models |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Crane saddle |  | Gear motor for crane sadle |  |
|  | ST, SP series | MT, MP series |  |  |
| TIB-0.8(s) | Output of traveling motor Less than $0.4 \mathrm{~kW} \times 2$ |  | SGM-0.4A-LK2×2 | SGM-0.4A-HK2×2 |
| TIB-2.2(s) | Output of traveling motor Less than $0.75 \mathrm{~kW} \times 2$ |  | SGM-0.75A-LK2×2 | SGM-0.75A-HK2×2 |
| TIB-4.4(s) | Output of traveling motor Less than $2.2 \mathrm{~kW} \times 2$ |  | SGM-1.5A-LK2×2 | SGM-1.5A-HK2×2 |
|  |  |  | SGM-2.2A-LK×2 | SGM-2.2A-HK×2 |
| TIB-7.4(s) | Output of traveling motor Less than $3.7 \mathrm{~kW} \times 2$ |  | SGM-3.7A-LK2×2 | SGM-3.7A-LK2×2 |


| Standard specifications |  |  |
| :---: | :---: | :---: |
| Power supply |  | 3 -phase $200 \mathrm{~V} 50 / 60 \mathrm{~Hz}, 220 \mathrm{~V} 60 \mathrm{~Hz}{ }^{* 1}$ |
| 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 |
|  |  | Number of starts per hour $250 \mathrm{~S} / \mathrm{Hr}$ |
| Service condition | Air temperature | $-10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ (No congelation) |
|  | Relative humidity | Ambient humidity $90 \%$ or less (Non condensation) |
|  | Atmosphere | Non corrosive gas environment, non considerable dust environment |
| Enclosure |  | Indoor type (JP20) |
| Protective functions |  | Over load, over voltage in regenerative (braking) |
| Power supply system |  | Cable feeding |
| Color coating |  | Munsell 4.7GY6.06/0.48 |



Push button operation and operation pattern


TIB-S TYPE

| Type | NFB for main power |  | Contactor for main power | Space for Light, Buzzer and contactor |
| :---: | :---: | :---: | :---: | :---: |
| TIB-0.8S | NF50-CP(50A) | ※NF50-CW(30A) | S-N35 ※S-N21 |  |
| TIB-2.2S | NF60-SP(60A) | ※NF50-CW(30A) | S-N50 ※S-N35 | holes are provided |
| TIB-4.4S | NF225-SP(125A) | ※NF100-CW(75A) | S-N80 ※S-N50 | for a couple of S-N11 or S-N21. |
| TIB-7.4S | NF255-SP(175A) | ※NF100-CW(100A) | S-N125 ※S-N65 |  |

Function diagram


Outline drawing

<TIB-2.2~7.4>

<TIB-2.2~7.4S>

※400V class series (TIB-H(HS)) are also availabl Contact us for 400 V class outline

| Outline dimension table (mm) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | A | B | C | D | E | Approx. weight |
| TIB-0.8 | 620 | 320 | 226 | 196 | 183 | 14 kg |
| TIB-2.2 | 620 | 220 | 228 | 196 | 204 | 17 kg |
| TIB-4.4 | 690 | 220 | 268 | 236 | 211 | 25 kg |
| TIB-7.4 |  |  |  |  |  |  |


| Outline dimension table (mm) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | A | B | C | D | E | Approx. weight |
| TIB-0.8S | 690 | 314 | 268 | 236 | 190 | 16 kg |
| TIB-2.2S | 730 | 690 | 333 | 120 | 226 | 20 kg |
| TIB-4.4S | 760 | 720 | 473 | 250 | 246 | 45 kg |
| TIB-7.4S |  |  |  |  |  |  |
| ※ In the case of 400 V, the outline dimension of TIB-0.8 and 0.8 S <br> are different from above values. Please contact us. |  |  |  |  |  |  |

## Geared motor for crane saddle

 SGM-A
## Standard specifications

ower supply : 3 -phase $200 \mathrm{~V} 50 / 60 \mathrm{~Hz}(220 \mathrm{~V} 60 \mathrm{~Hz}$ is available.) With brake
Enclosure : indoor type
Ambient air temperature : $-10^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ (Non congeration)
Ambient air humidity : $90 \%$ or less (Non condensing)
Color coating : Metallic glay
te:(1)SGM-3.7A-HK2 are Made-to-order product.
(2) inertia Moment of permissible load:

Standard type Ten times Ineriai Moment of motor
3)Start accumulator such as inverters is necessary for HK type
$\qquad$

## Line up and ratings


$0.4 \sim 2.2 \mathrm{~kW}$ Standard type(Low speed type, High speed type)
$\underset{\substack{\text { note } \\ \text { N1.Alowance of fixing match of } \\ \phi d \text { is } m \rightarrow \text { Receommended }}}{ }$


$\underset{\substack{(509 M-1.54) \\(56 M-2 A}}{ }$


| type | $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|} \hline \text { utut } \\ \text { (kW) } \end{array}$ | Poles | $\left.\begin{array}{l} \text { Key } \\ \text { Size } \\ (m m) \end{array}\right)$ | Dimensions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { Weight } \\ & \text { (kg) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | a | b | d*1 | e | f | A | B | c | D*2 | E | F | G | н | 1 | J | к |  |
| SGM-0.4A-LK2.HK2 | 0.4 | 4 | $\begin{gathered} 10 \times 8 \\ -36 \end{gathered}$ | 10 | 8 | 35 | 30.0 | 36 | 466 | 75 | 391 | 140 | 50 | 5 | 15 | 70 | 321 | 39 | 129 | 28 |
| sGM-0.75A-LK2.HK2 | 0.75 |  |  |  |  |  |  |  | 486 | 75 | 411 | 140 | 50 | 5 | 15 | 70 | 341 | 39 | 135 | 34 |
| SGM-1.5A.LK2.HK2 | 1.5 |  |  |  |  |  |  |  | 615.5 | 100 | 515.5 | 160 | 70 | 5 | 20 | 107. | 408 | 46 | 163 | 63 |
| SGM-2.2A-LK.HK | 2.2 |  | -56 | 14 | 9 | 50 | 44.5 | 56 | 609 | 100 | 509 | 160 | 70 | 5 | 20 | 107.5 | 4015 | 46 | 172 | 67 |

## 3.7kW Standard Low speed type (Weight:95kg)




(1)Avoid the collision of the saddle to the stopper as much as possible, and instal the buffer in the saddle.

## Over load detection device LCV-B <br> "Weight Checker"(detection of current)



It prevent and secure safety of the hoist overload work. And it can raise an alarm in case of the overload, stop hoisting motor by detecting the current value of motor.


| Corresponondedhoist (t)(S Type) |  | LCV-20B |  |  |  |  |  |  | LCV:30B |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1/2 | 1 | 2 | 2.8 | 5 | 7.5 | 10 | 15 | 20 | 30 |
| $\underset{\substack{\text { Hoisting motor } \\(\mathrm{kW})}}{ }$ | 50 Hz | 1.0 | 2.0 | 2.9 | 4.1 | 6.2 | 8.3 | 10 | 17 | 17 | 17 |
|  | 60Hz | 1.2 | 2.9 | 3.5 | 4.9 | 7.5 | 10 | 12 | 20 | 20 | 20 |




[^0]:    Note Appicable l-Beem $\square=$ Standard

