

FACTORY AUTOMATION

**Now on  
Sales**

MITSUBISHI HOIST

**UG**  
TYPE



## Improving work efficiency with simple and safety

UG type <Great **5G**>

### 1/ **G**reat performance

Improved ease of use with all inverter  
for small capacity models

### 2/ **G**reat safety

Safety and Security with Anti-sway function, shortened tact time

### 3/ **G**reat specification

Achieved Light load high speed function and Overload prevention function  
without a sensor

### 4/ **G**reat service

Standard inventory of general-purpose inverters allows immediate delivery and  
easy replacement, reducing downtime.

### 5/ **G**reat reliability

Developed base on the Mitsubishi excellent quality control

# UG TYPE

## Equipped with MITSUBISHI general-purpose inverter (Dedicated parameters & sequence function)

### Features

#### Hoisting functions

- Overload prevention function
- Light load high speed function
- High inching response

#### Hoisting brake motor

- High-resistance squirrel-cage type • class F insulation
- Current type brake

#### Inverter

- Equipped with Mitsubishi Electric general-purpose inverter (Dedicated parameters & sequence function)
- Hoisting, Lowering and Traversing are all inverter
- With regenerative resistor

#### Traversing functions

- Safe and secure with Anti-sway function
- Takt time reduction
- Plucking operation

#### Reducer

- Grease lubrication
- Simple two-stage reduction

#### Hoisting limit switch

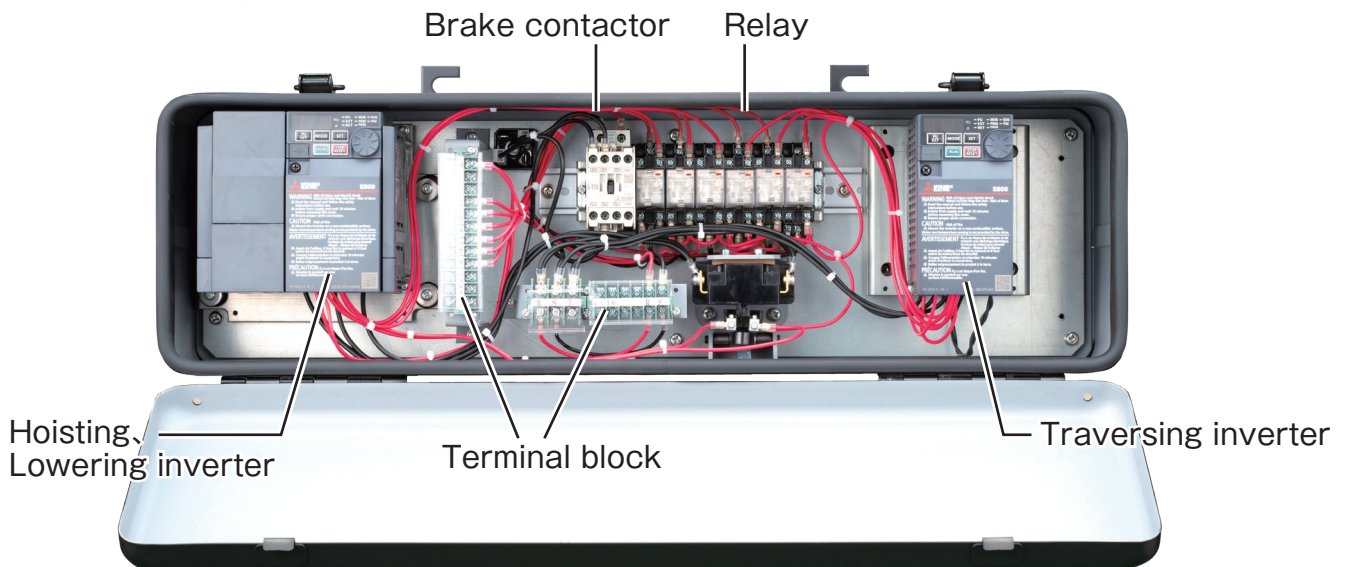
- 2-step hoisting limit switch

#### Main body

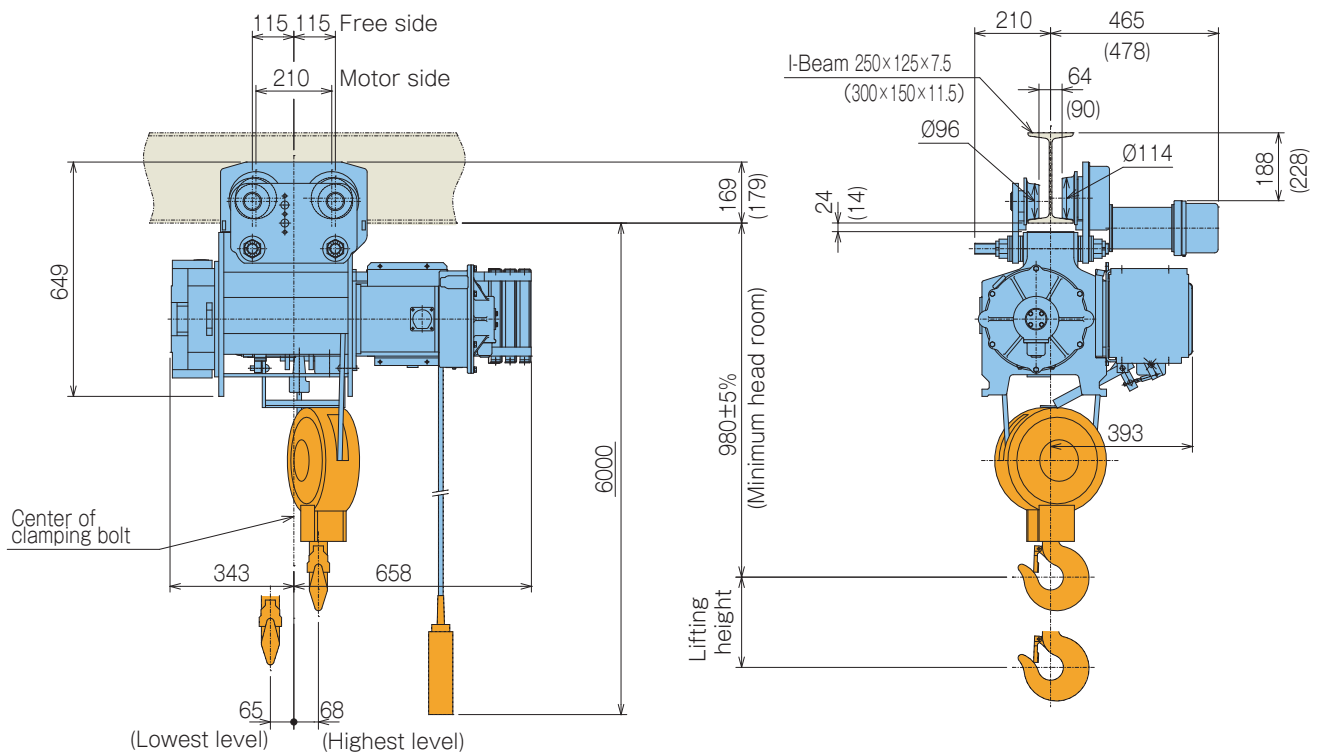
- Color coating: Black (Equivalent to Munsell N1.5)
- Class:C



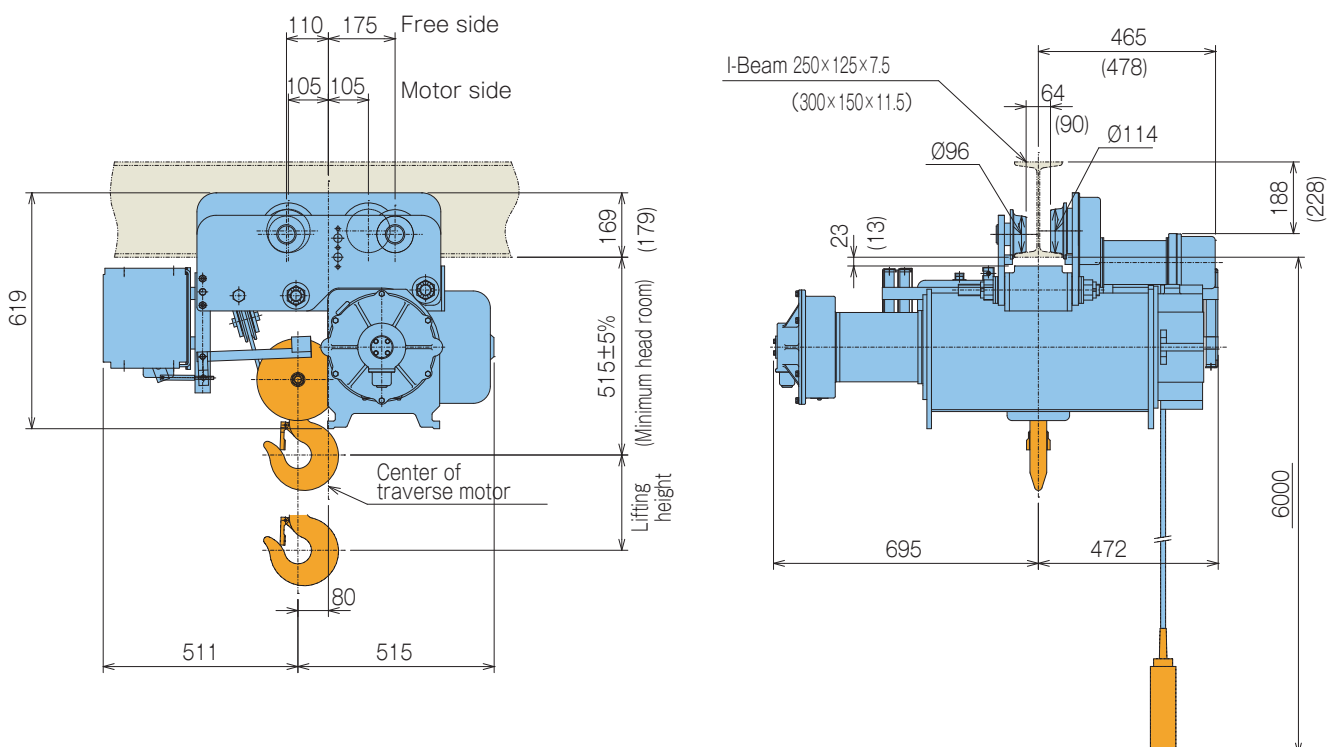
Equipment arrangement inside the control box (common to all models)



# Monorail type UG (3t)



# Low-head type UG (3t)

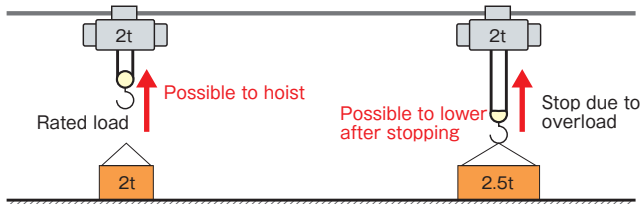


## Overload prevention function

### Work Safety

#### [Detects overload and stops safely]

- The setting range of detection value : 50% to 150% of the rated load
- Detection value (at factory shipment): 125% of rated load. the Overload prevention function is turned on when shipped from the factory
- Judgment based on motor slippage (There may be variations due to power supply voltage, motor temperature, etc.)



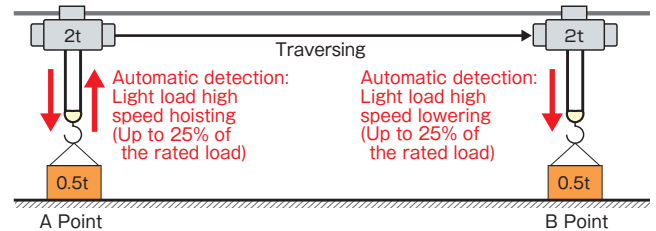
## Light load high speed function

### More Improvement for Work Efficiency

#### [Detects light load and operates at high speed]

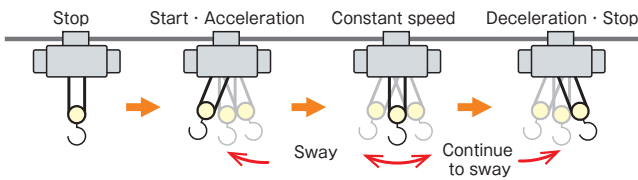
- The setting range of detection value : 0 to 25% of rated load
- Detection value (at factory shipment): 25% of rated load. the Light load high speed function is turned on when shipped from the factory
- Judgment based on motor slippage (There may be variations due to power supply voltage, motor temperature, etc.)
- Changeable High-speed operation frequency: 60-90Hz (4P)

Example) When transporting a load from point A to point B



## Anti-sway function

### Conventional

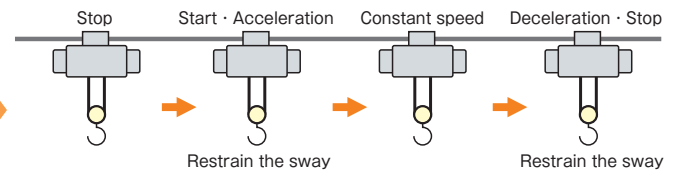


There are risks of collision and collapse of the load due to the sway of the load during traversing operation

### New function

( Add function equivalent to U3 and TIB2)

- Factory setting : Rope length 4m (low lift) or 10m (high lift), the Ant-sway function is turned on when shipped from the factory



Restrain load sway → **Easy positioning, Improved Safety and Work efficiency**

### Specification list

Capacity [t]	Lift [m]		Wire Rope		Hoisting		Traversing(Monorail type · Lowhead type)	
			Monorail type (Suspended type)	Lowhead type	Speed[m/s(m/min)]		Speed[m/s(m/min)]	
	Low	High	2falls	4falls	Low speed	High speed	Low speed	High speed
1	6	12	φ8	φ6.3	0.013 (0.8)	0.133 (8)	0.0417 (2.5)	0.417 (25)
2			φ10	φ8				
2.8			φ12.5	φ9				
3								

※High lift of Lowhead type(1t ~ 3t) is not available.

Items	Contents
Power supply	3-phase 200V 50/60Hz, 220V 60Hz 400V 50/60Hz, 440V 60Hz, 380V 50Hz
Operating method	Push button switch operations Hoisting and Traversing are all 2step push buttons Motor operated traversing type:7 Points(STOP · U · D · E · W · S · N) Suspended type 3 Points(STOP · U · D)
Rating	Hoisting : 40%ED 240S/Hr at 63% of the rated load Traversing : 25%ED 150S/Hr at 63% of the rated load
Power supply system	Cable feeding, Trolley feeding(Double trolley only)
Ambient air temperature	-10°C~+40°C(Non condensing)
Ambient air humidity	90%RH or Less(Non condensing)
Enclosure	Simplified outdoor type(Control box and Motor · Brake part are IP44) Please install a rainproof cover and prepare a shelter when using outdoors.
Applicable standard	electric hoist/crane structure standard
Color	Main body : Equivalent to Munsell1.5 Hook block : Munsell7.5YR7/14 Pushbutton : Equivalent to Munsell7.5YR7/13

※Please contact us separately for other special specifications.

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