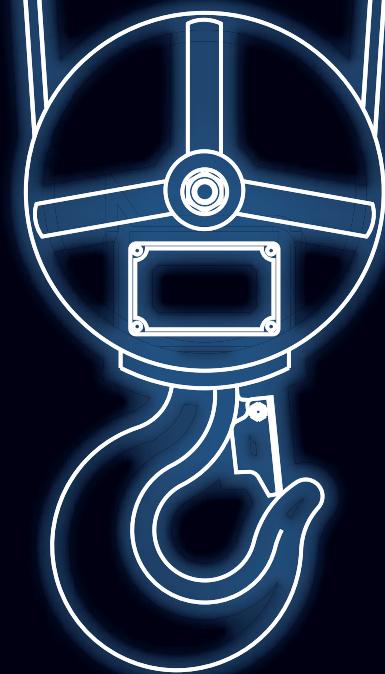




Rope Hoists

**HITACHI**  
Inspire the Next



Hitachi Rope Hoist Catalog

# **Hitachi Rope Hoist**

**A** series

**V** series

**O** thers

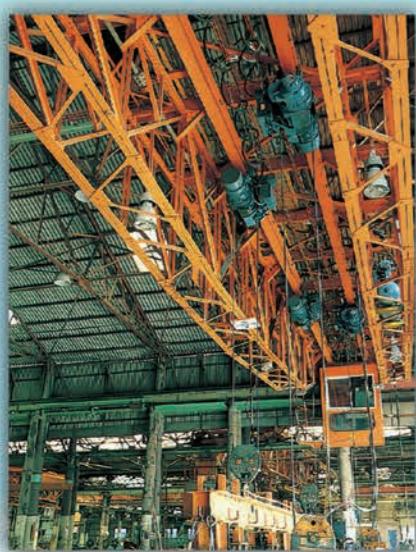
# From 0.5 to 30 tons, Hitachi Hoists V Series Take Up All Shapes of Load.

In 1927, Hitachi developed the nation's first rope hoist. Since then, we have improved the performance of our hoists, based on the design concept of more serviceable and reliable hoists, and achieved substantial results in various industry fields.

The V Series is the culmination of what we have been targeting all these years.

We offer a wide selection of hoists, including models for special uses in addition to standard models, and hoist accessories according to your needs and applications.

We could assist you in streamlining your material handling work, saving energy and improving efficiency with our hoists.



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# Various Features Focusing on Safety and Maintainability Makes Hoists More Serviceable and Reliable.

## 1 Highly Reliable Braking System Unique to Hitachi

- The hoist detects the amount of lining abrasion. The brake is equipped with an automatic adjusting device to apply brake torque in proportion to the amount of lining abrasion.
- The double braking system consists of the main brake and the auxiliary brake unit

## 2 Hoisting Motor with a Thermal Protector

- The hoisting motor automatically stops when sensing the heat of the motor coil in order to protect the motor from burning damage caused by heat due to overwork.

## 3 Efficient Maintenance is Possible

- The starting time counter in the control box facilitates checking of the lifetime of consumable parts.
- The gear inspection window in the control box allows visual checks of the condition of the gear teeth surface and lubrication to some degree.
- The punch mark on the hook indicates the reference point for the hook inspection of deformation.
- The inspection of the rope end is easy.

**The Hitachi Hoist is composed of a rational system with unitized brake, motor, drum, reduction gear, and auxiliary brake.**

\*Disassembly and assembly are easy.

\*Maintainability and serviceability are improved.



### ● GEAR INSPECTION WINDOW

Visual checks of the gear case teeth surface and lubrication conditions to some degree will improve inspection accuracy.

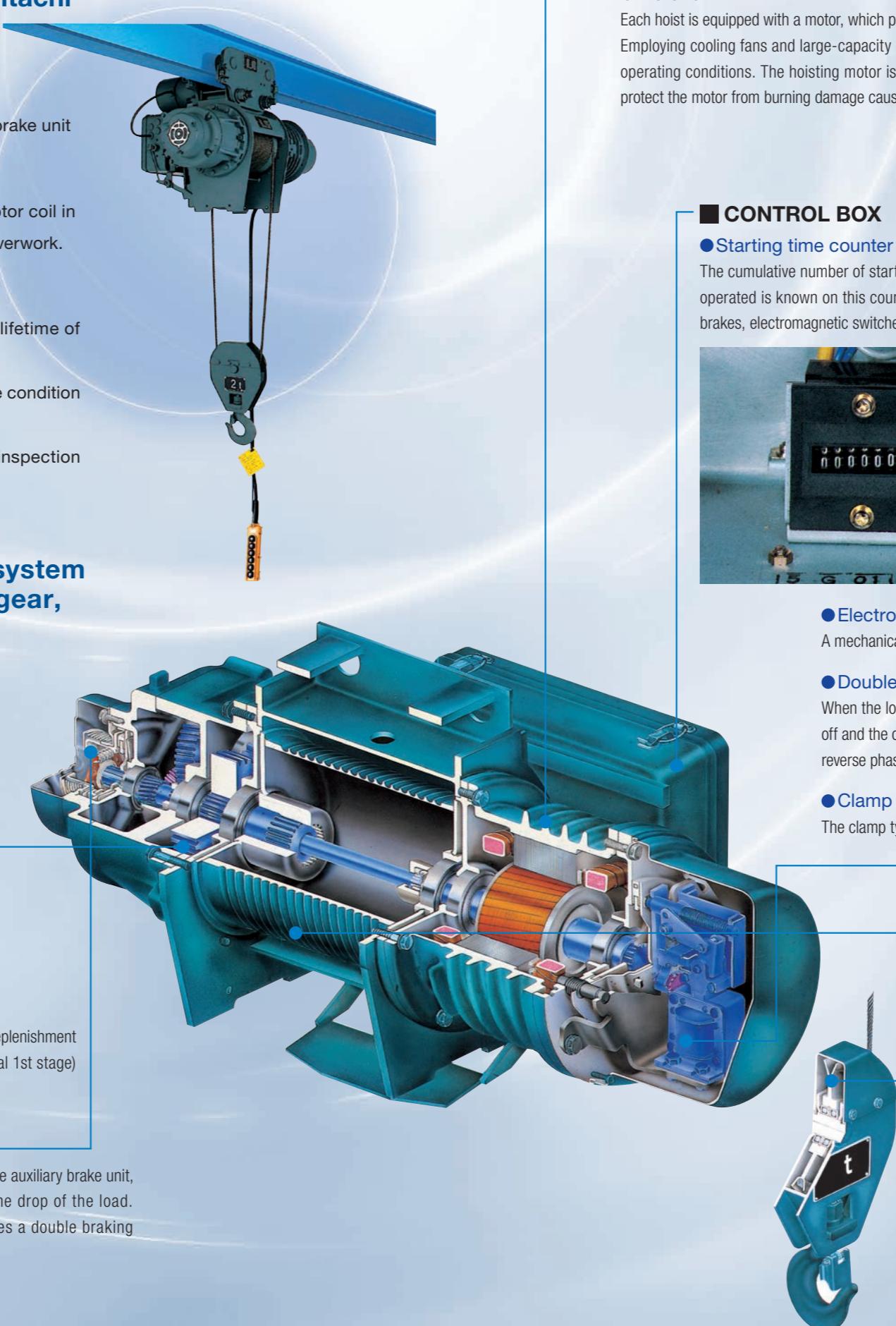
### ● REDUCTION GEAR UNIT

With a grease lubricating system, grease is filled in the gear unit on shipment, eliminating the replenishment prior to use, and prolonging the operation time. The building blocks of the spur gears (helical 1st stage) facilitate the maintenance inspection.



### ● AUXILIARY BRAKE UNIT

If the braking force of the main brake is reduced, the auxiliary brake unit, a new system with minimal impact, prevents the drop of the load. Together with the automatic brakes, it composes a double braking mechanism.



### ● Motor unit

Each hoist is equipped with a motor, which provides optimal starting torque for the hoist. Employing cooling fans and large-capacity ball bearings, the class B insulating motor (class F for 7.5 and 10 tons) can withstand severe operating conditions. The hoisting motor is provided with a thermal protector, which senses the heat of the motor coil and functions to protect the motor from burning damage caused by over-frequent starting times.

### ■ CONTROL BOX

#### ● Starting time counter

The cumulative number of starting times is indicated on this counter. Because the total number of times the parts have been operated is known on this counter, it is useful for planning the maintenance and procurement of consumable parts such as brakes, electromagnetic switches, and wire ropes.



#### ● Electromagnetic switch with mechanical interlock

A mechanical interlock is provided for the electromagnetic switch to prevent malfunction.

#### ● Double-limit switch

When the load block has reached the upper limit, the control circuit of the electromagnetic switch is turned off and the operation is stopped. Should a short-circuit occur, or the main circuit continue to operate due to a reverse phase connection, causing the load block to move further upward, the motor main circuit is cut off.

#### ● Clamp type cover

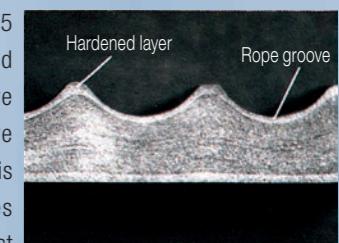
The clamp type control box cover facilitates opening and closing.

#### ● Brake unit

The brake is equipped with an automatic adjusting device, which automatically adjusts brake torque in proportion to the amount of lining abrasion. Conventional adjustments of the brake will not be required.

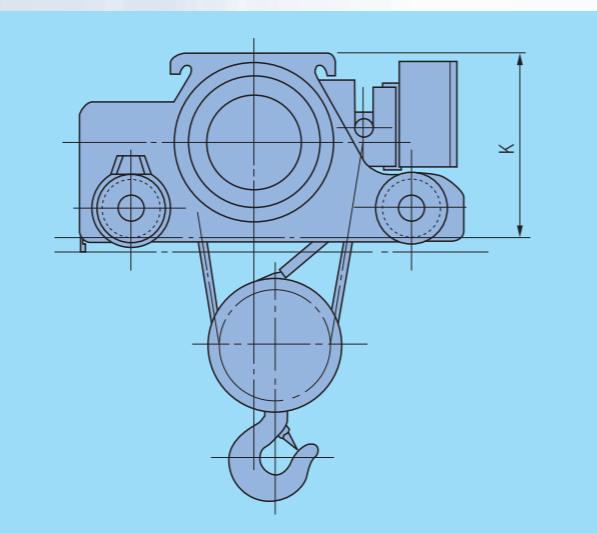
### ■ STEEL DRUM and SHEAVE

The drums (2- and 4-fall models for 2 to 5 tons, except for ultra high lift hoists) and sheaves (except for 7.5 and 10 tons) are made of steel plate, and the grooves are processed by a special press method. This makes the life of the drums and sheaves about three times longer than existing cast metal ones (compared with our products).



### ● Reduction in size and weight

The K size, from the road surface of the traverse rail to the top surface of the double rail hoist, is reduced by 20% and weight is reduced by 10% (compared with our conventional products). This downsizing improves installation and operability.



### ■ Thick Wire Rope

The wire rope provided with a sufficient margin features a long life.

#### ● Rope end

Inspection of the rope end has become much easier.



### ■ Hook

#### ● Punch mark

The punch mark on the hook indicates the reference point for easy inspection of deformation.

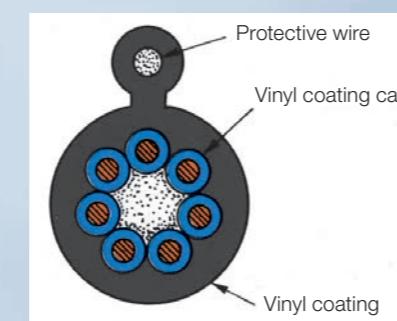


#### ● Load block fitted with a safety lever

The load block is provided with a safety lever to prevent the rope from dislodging in addition to a safety cover.

#### ● Integrated pushbutton cable

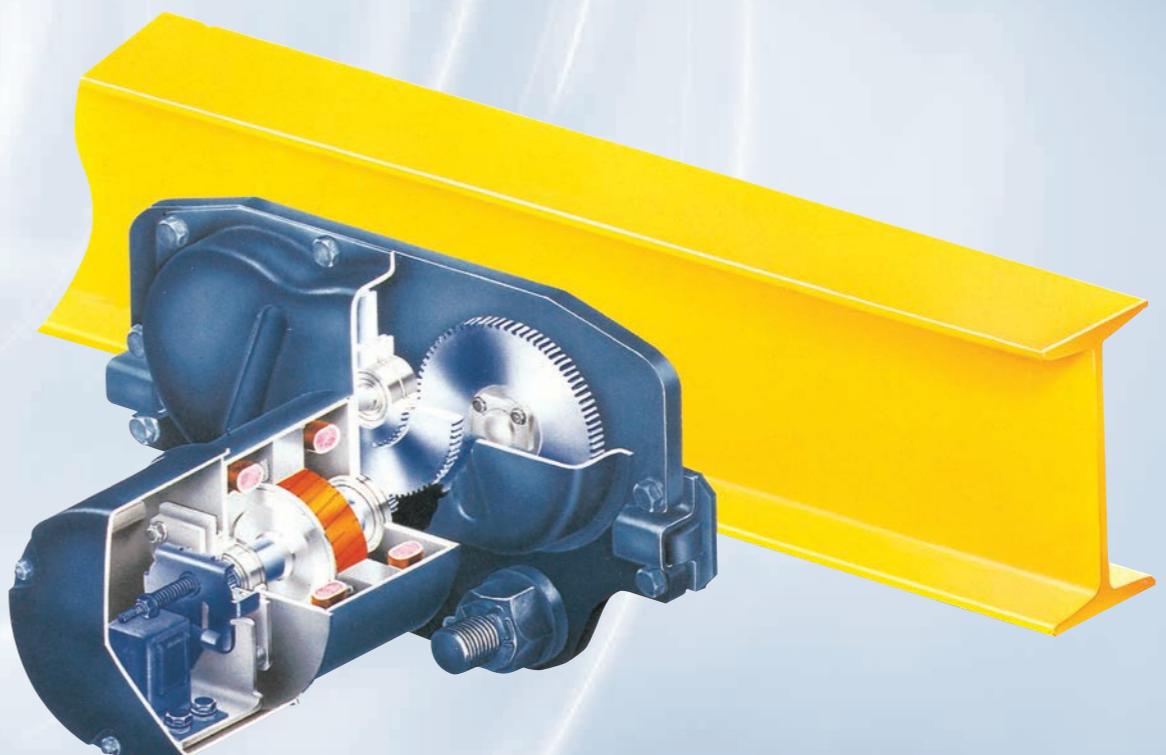
The pushbutton cable unique to Hitachi integrates the cable and protective wire into a single assembly to improve durability and operability.



#### ● User-friendly pushbutton

The plastic push button is of a totally enclosed type.

### ■ Motorized trolley



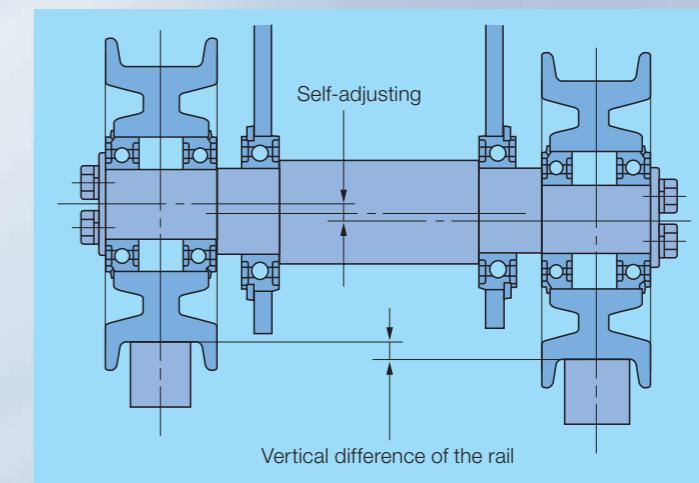
#### ● Long life wheel

The hoist traverses by guide rollers and the flangeless wheels remarkably reduce the wear of the I-beam and wheels. The built-in brake facilitates positioning. The brake torque is adjustable.

Besides the standard and low headroom types, wheels of the double rail type (2 to 5 tons) are quenched, prolonging the lifetime more than 2.5 times that of conventional hoists (compared with our products).

#### ● Self-adjusting center core (Double rail hoist)

Using a trolley with a self-adjusting center core, the wheels can closely follow the rails.





# A-series

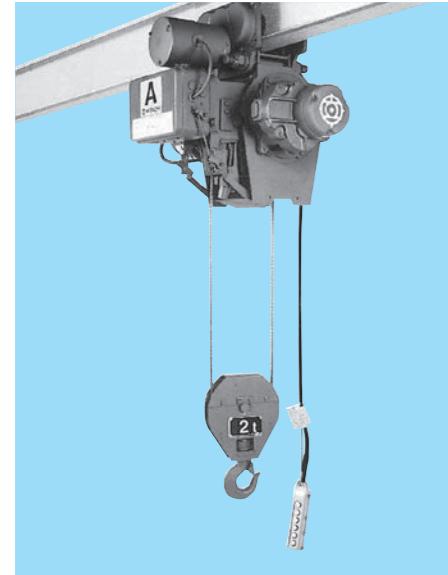
## HOIST with Motorized Trolley

### Standard Headroom Type Hoist

#### (With suspension/chain-driven and motorized trolley)

This is an orthodox type of hoist widely utilized for general purposes. It boasts high performance for use in rugged jobs such as general production in factories, mining, railroads, and warehouses.

#### ■ Standard - Headroom Type Hoist

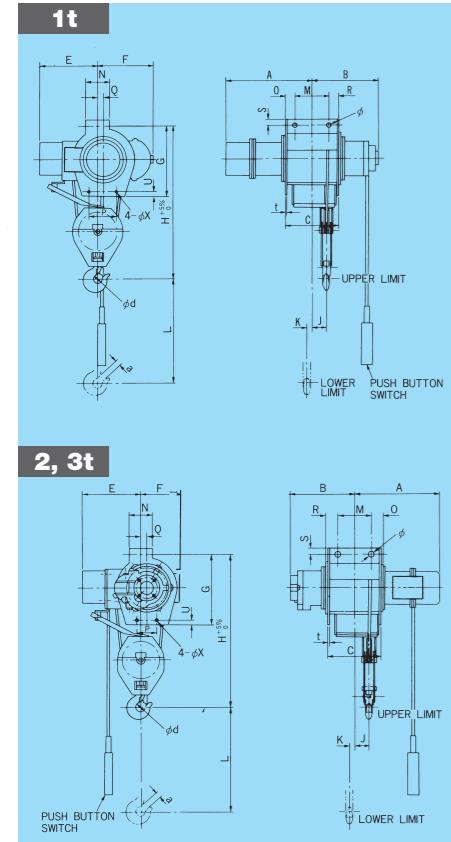


#### ■ Specifications

Capacity (t)		1	2	3
Hoisting lift (m)		6 and 12		
Hoisting	Speed (m/min)	50Hz 7	6	5
		60Hz 8.4	7	6
	Motor (kW)	50Hz 1.2	2.1	2.6
		60Hz 1.5	2.4	3.1
Traversing	No. of poles	4		
	Speed (m/min)	50Hz 21		
		60Hz 25		
	Motor (kW)	50Hz 0.30	0.30	0.45
Wire rope		60Hz 0.36	0.36	0.55
	No. of falls	4		
	Composition	6×Fi (29)-B		
	Diam. (mm)	ϕ 8	ϕ 11.2	ϕ 14
Rating		25% ED 250 Starts/h		
Operating method		Floor-controlled Pushbutton operation		
Electric source (3 phase)		200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz		
Control voltage (V)		24 — 27		

#### ■ Dimensions

##### Suspension Type Hoist

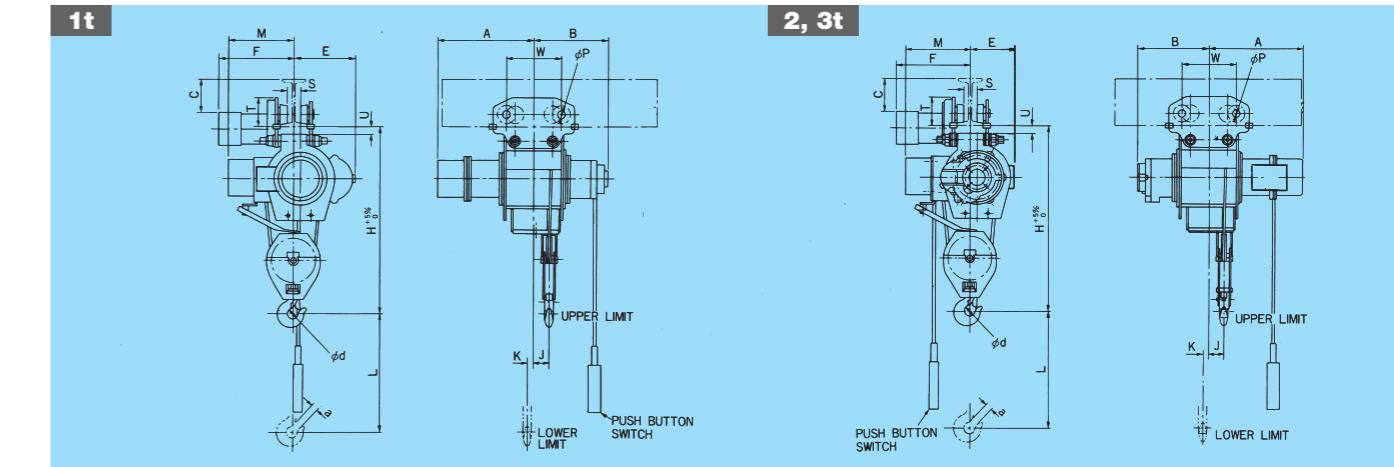


#### ■ Table of Dimensions

Model	1AM <sub>6</sub>	1HAM <sub>6</sub>	2AM <sub>7</sub>	2HAM <sub>7</sub>	3AM <sub>6</sub>	3HAM <sub>6</sub>
Capacity (t)	1	2	3			
L	6,000	12,000	6,000	12,000	6,000	12,000
H	710		910		1,050	
A	480	650	545	580	565	605
B	350	385	435	615	460	640
M	200		200		200	
ϕ	26		36		36	
N	139		139		164	
E	345		400		460	
F	255		220		245	
ϕ d	45		56		71	
a	23		36		42	
J	85	115	75	100	80	110
K	20	90	30	110	35	120
O	47	217	56	91	65	106
R	47	80	58	237	79	262
Q	32.5		35.5		41.5	
S	35	40	35		35	
C	294	497	314	528	344	568
t	9		9		9	
G	390		500		555	
P	120		120		180	
U	28		28		35	
ϕ X	10		10		14	
Approx. weight (kg)	115	125	190	210	230	255
Push-button indication			↑	↓		

### Standard Headroom Type Hoist

#### ■ Dimensions Standard-Headroom Type with Motorized Trolley



#### ■ Table of Dimensions

Model	1AM-T <sub>65</sub>	1HAM-T <sub>65</sub>	2AM-T <sub>75</sub>	2HAM-T <sub>75</sub>	3AM-T <sub>65</sub>	3HAM-T <sub>65</sub>				
Hoist type	1AM <sub>6</sub>	1HAM <sub>6</sub>	2AM <sub>7</sub>	2HAM <sub>7</sub>	3AM <sub>6</sub>	3HAM <sub>6</sub>				
Trolley type	1T <sub>5</sub>	1T <sub>5</sub>	2T <sub>5</sub>	2T <sub>5</sub>	3T <sub>5</sub>	3T <sub>5</sub>				
Capacity (t)	1	2	3							
L	6,000		12,000		6,000					
H		790			985					
A	480	650	545	580	565	605				
B	350	385	385	435	615	460				
M	345		400		460					
W	200/290		200/290		230/310					
K	20	90	30	110	35	120				
J	85	115	75	100	80	110				
E	255		220		245					
ϕ d	45		56		71					
ϕ p	96		96		128					
a	23		36		42					
Min. curve Radius (m)	1.5			1.8						
Dimensions (mm)	F	S	T	U	C	F	S	T	U	C
I- Beam										
200×100×7	374	42	148	42	135	378	42	148	42	135
250×125×7.5	387	67	151	44	185	391	67	151	39	185
300×150×11.5	400	92	160	35	225	404	92	160	30	225
450×175×11										
Approx. weight (kg)	165		175		255	275		320		345
Push-button indication			↑	↓	←	→	↗	↖		

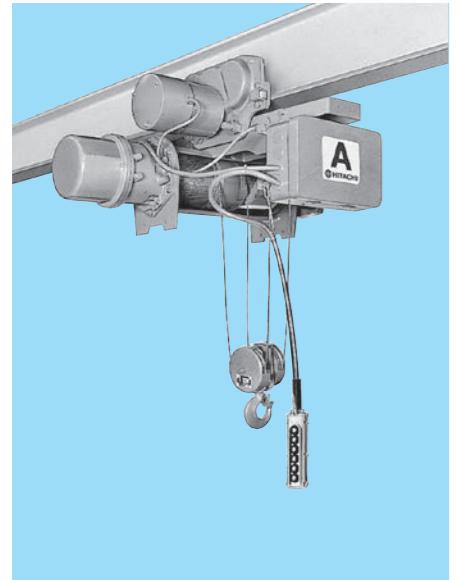
NOTES : 1.Dimensions W are for the drive side/driven side.

2.Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

3.( ) dimensions represent dimensions of 1HAM<sub>6</sub> (Hoist type)

# Low Headroom Type Hoist

## Low-Headroom Type Hoist

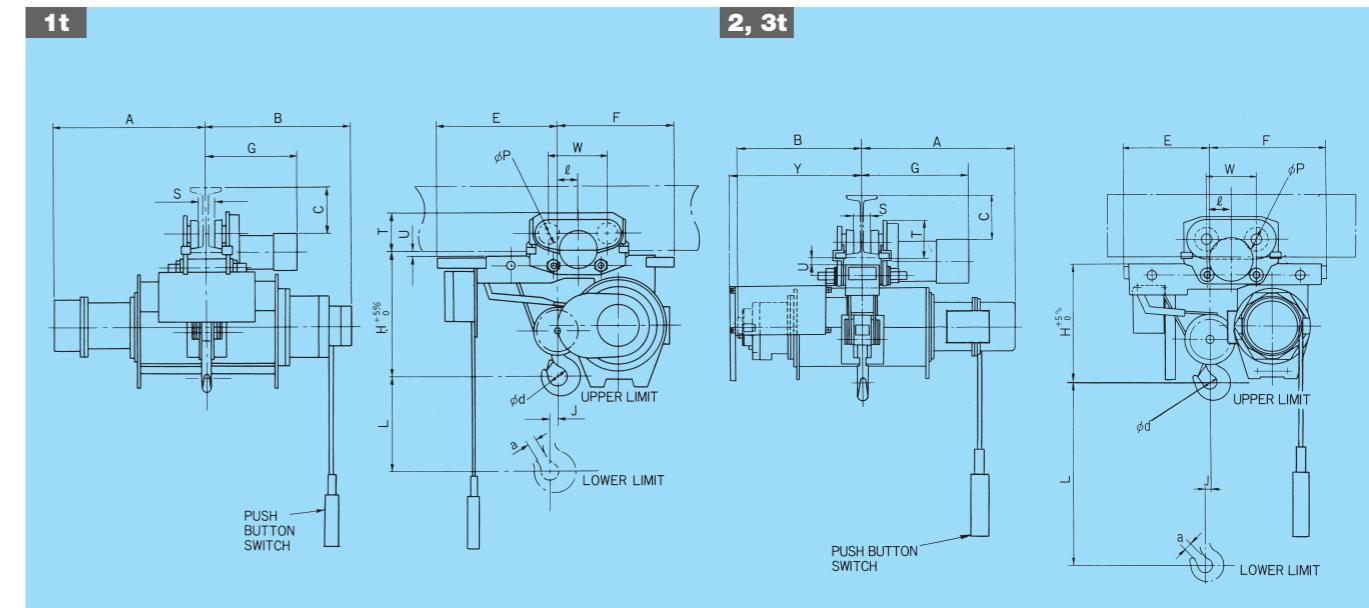


## Specifications

Capacity (t)	1	2	3	
Hoisting lift (m)	6			
Hoisting Motor	Speed (m/min) 50Hz	7	6	5
	60Hz	8.4	7	6
	(kW)	1.2	2.1	2.6
	50Hz 60Hz	1.5	2.4	3.1
Traversing Motor	No. of poles	4		
	Speed (m/min) 50Hz	21		
	60Hz	25		
	(kW) 50Hz 60Hz	0.30 0.36	0.30 0.36	0.45 0.55
Wire rope	No. of falls	4		
	Composition	6×W (19)-B	6×Fi (29)-B	
	Diam. (mm)	φ 6.3	φ 8	φ 10
Rating				25% ED 250 Starts/h
Operating method				Floor-controlled Pushbutton operation
Electric source (3 phase)				200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz
Control voltage (V)				24 — 27

# Low Headroom Type Hoist

## Dimensions



## Table of Dimensions

Model	1AL-T <sub>55</sub>				2AL-T <sub>55</sub>				3AL-T <sub>55</sub>			
Hoist type	1AL <sub>s</sub>				2AL <sub>s</sub>				3AL <sub>s</sub>			
Trolley type	1T <sub>s</sub>				2T <sub>s</sub>				3T <sub>s</sub>			
Capacity (t)	1				2				3			
L	6,000				6,000				6,000			
H	425				515				600			
A	600				655				705			
B	475				545				585			
W	200/290				200/290				230/310			
E	420				365				400			
F	375				480				575			
φd	45				56				71			
J	28				42				46			
Y	—				625				620			
φp	96				96				128			
a	23				36				42			
ℓ	55				85				100			
Min. curve Radius (m)	1.5				1.8				2.0			
Dimensions (mm)												
I- Beam	S	T	U	C	G	S	T	U	C	G	S	T
200×100×7	42	148	52	135	374	42	150	32	135	378		
250×125×7.5	67	151	49	185	387	67	153	29	185	391	52	177
300×150×11.5	92	160	40	225	400	92	163	19	225	404	77	187
450×175×11											102	185
Approx. weight (kg)	180				270				370			
Push-button indication												

NOTE : Dimensions W are for the drive side/driven side.  
Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

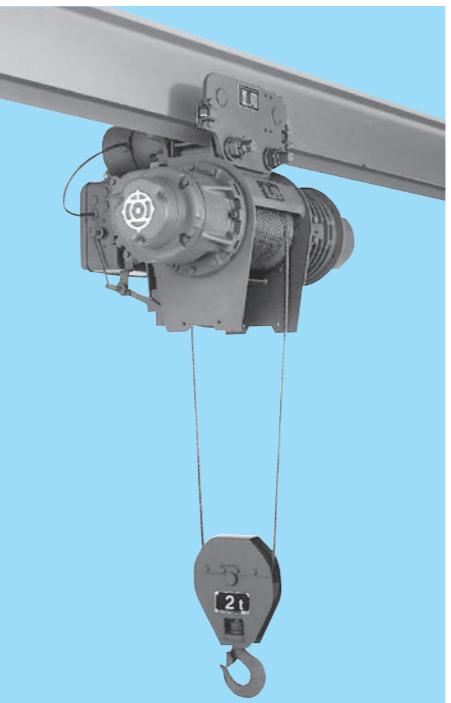
# V-series

## HOIST with Motorized Trolley

### Standard Headroom Type Hoist

#### (With suspension/chain-driven and motorized trolley)

This is an orthodox type of hoist widely utilized for general purposes. It boasts high performance for use in rugged jobs such as general production in factories, mining, railroads, and warehouses.



#### Specifications

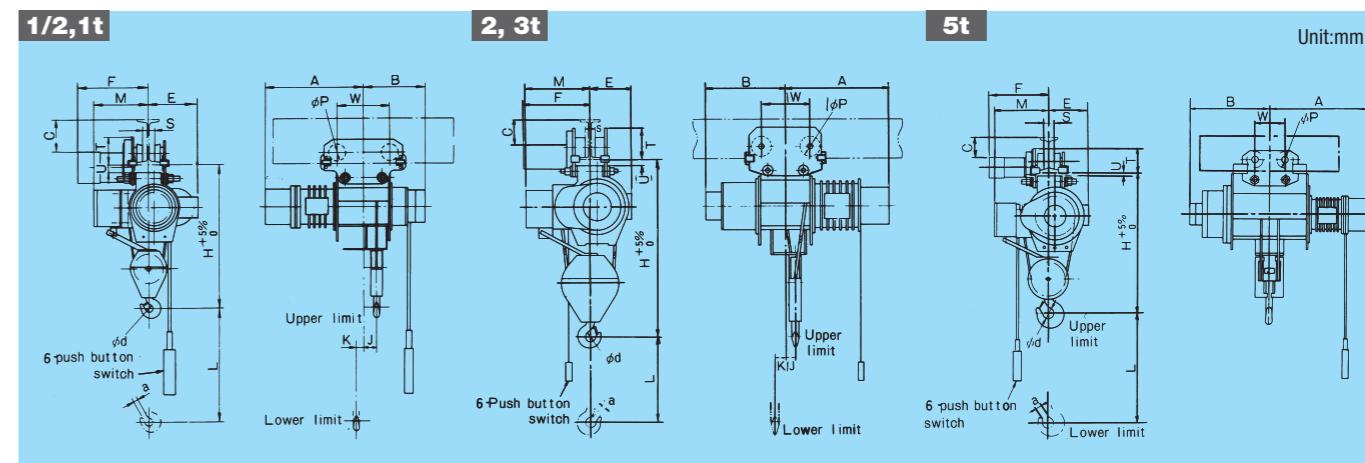
Capacity (t)		1/2	1	2	3	5	7.5	10	15	20							
Hoisting lift (m)		6 and 12				8 and 12				12							
Hoisting	Speed (m/min)	50Hz	11	11	8.4	7.5	6.7	6.0	5.0	5.0	4.2						
		60Hz	13	13	10	9	8	7.2	6.0	6.0	5.0						
	Motor (kW)	50Hz	1.0	1.9	2.9	4.2	5.9	7.9	8.8	6.7×2	7.5×2						
		60Hz	1.2	2.3	3.5	5	7	9.5	10.5	8×2	9×2						
Traversing	Speed (m/min)	50Hz	4				4										
		60Hz	21				14										
	Motor (kW)	50Hz	0.30	0.30	0.30	0.45	0.63	0.47×2	0.47×2	0.7×2	0.7×2						
		60Hz	0.36	0.36	0.36	0.55	0.75	0.56×2	0.56×2	0.84×2	0.84×2						
Wire rope	No.of falls		2		4												
	Composition		6×W(19)-B		6×Fi(29)-B		6×Fi(29)IWRC-B										
	Diam.(mm)		φ 6.3	φ 8	φ 11.2	φ 14	φ 12.5	φ 14	φ 16	φ 20	φ 22.4						
	Rating		40%ED400 Starts/h				40%ED250 Starts/h										
Operating method		Push-button operation ↑↓←→○○○○				Push-button operation ON OFF ↑↓←→○○○○											
Electric source (3 phase)		200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz															
Control voltage		200V 50/60Hz															

### Hoist with Motorized Trolley

#### Here's Convenience

This hoist proves handy for use in a busy factory where the load traveling range is wide and transporting operations are frequent. The motorized trolley efficiently transports loads to destined locations. When the rail is installed the full length or width of a building's ceiling, the hoist may be used as an overhead traveling crane. Loads can be speedily transported merely by manipulating the push-button switches. Several hoist units can be mounted on one rail.

#### Dimensions



#### Table of Dimensions

Model	1/2M-T <sub>65</sub>	1/2HM-T <sub>65</sub>	1M-T <sub>65</sub>	1HM-T <sub>65</sub>	2M-T <sub>75</sub>	2HM-T <sub>75</sub>	3M-T <sub>65</sub>	3HM-T <sub>65</sub>	5M-T <sub>55</sub>	5HM-T <sub>55</sub>		
Hoist type	1/2M <sub>6</sub>	1/2HM <sub>6</sub>	1M <sub>6</sub>	1HM <sub>6</sub>	2M <sub>7</sub>	2HM <sub>7</sub>	3M <sub>6</sub>	3HM <sub>6</sub>	5M <sub>5</sub>	5HM <sub>5</sub>		
Trolley type	1/2T <sub>5</sub>	1/2T <sub>5</sub>	1T <sub>5</sub>	1T <sub>5</sub>	2T <sub>5</sub>	2T <sub>5</sub>	3T <sub>5</sub>	3T <sub>5</sub>	5T <sub>5</sub>	5T <sub>5</sub>		
Capacity (t)	1/2	1	2	3	4	5	6	7	8	9		
L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	8,000	12,000		
H	740	790	985	1,115	1,190							
A	485	655	545	715	595	630	645	690	845	955		
B	355	380	350	385	435	615	475	660	690	800		
M	335	345	415	460	455							
W	200/290	200/290	200/290	230/310	250/330							
K	20	100	20	90	30	110	35	120	-	-		
J	80	105	85	115	75	100	80	110	-	-		
φ d	40	45	56	71	90							
φ p	96	96	96	128	156/140(DRIVE SIDE/DRIVEN SIDE)							
a	21	23	36	42	58							
Min. curve radius (m)	1.3(5.0)	1.5	1.8	2.0	3.0							
Dimensions with respect to I-beam	E	F	S	T	U	C	E	F	S	T	U	C
(150×75×5.5)	190	361	17	147	53 (43)	85						
200×100×7	190	374	42	148	52 (42)	135	255	374	42	148	42	135
250×125×7.5	190	387	67	151	49 (39)	185	255	387	67	151	44 (39)	185
300×150×11.5				255	400	92	160	35 (30)	225	220	404	92
450×175×11									245	430	77	187
Approx. weight (kg)	145	155	175	195	280	310	385	415	685	745		

NOTES : 1. Dimensions W represent dimensions of drive side/driven side.

2. 1/2 ton-When an I-beam (150×75×5.5) is used, the minimum curve radius is 5m.

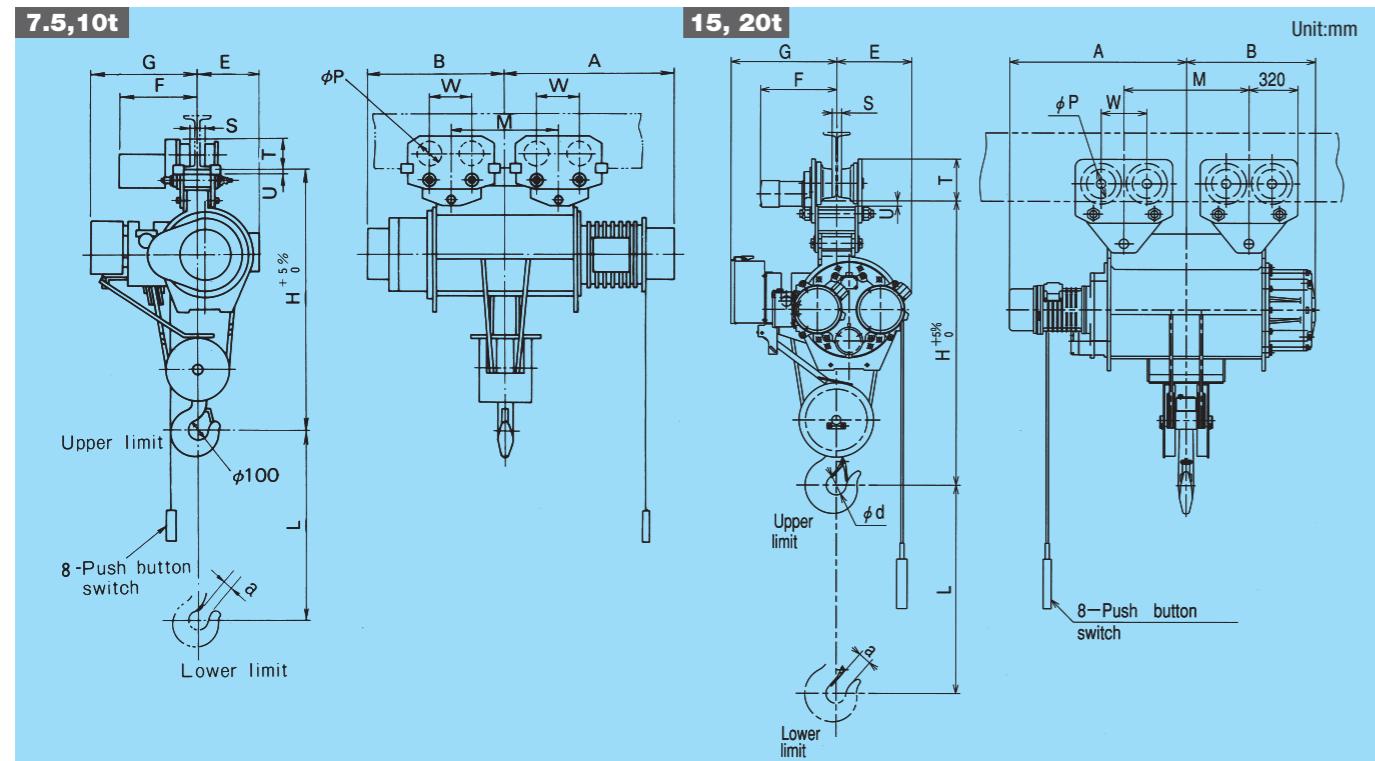
3. 1/2 ton-When an I-beam (150×75×5.5) is used, 50mm-thick shims are necessary between the building and the I-beam.

4. Unless otherwise specified trolley is being assembled so as to meet smugged I-beam size.

5. ( ) dimensions represent dimensions of 1/2HM<sub>6</sub> and 1HM<sub>6</sub> (Hoist type)

# Hoist with Motorized Trolley

## Dimensions



## Table of Dimensions

Model	7.5M-T <sub>55</sub>	7.5HM-T <sub>55</sub>	10M-T <sub>55</sub>	10HM-T <sub>55</sub>	15M-T <sub>55</sub>	15HM-T <sub>55</sub>	20HM-T <sub>55</sub>	
Hoist type	7.5M <sub>s</sub>	7.5HM <sub>s</sub>	10M <sub>s</sub>	10HM <sub>s</sub>	15M <sub>s</sub>	15HM <sub>s</sub>	20HM <sub>s</sub>	
Trolley type	4FT <sub>s</sub> ×2	4FT <sub>s</sub> ×2	5FT <sub>s</sub> ×2	5FT <sub>s</sub> ×2	10AT <sub>s</sub> ×2	10AT <sub>s</sub> ×2	10AT <sub>s</sub> ×2	
Capacity (t)	7.5		10		15		20	
L	8,000	12,000	8,000	12,000	8,000	12,000	12,000	
H	1,345		1,515		1,865		2,010	
A	1,075	1,150	1,075	1,150	1,060	1,160	1,210	
B	830	905	885	960	750	850	900	
E	315		355		500		500	
G	570		590		705		705	
M	560	760	650	786	820		900	
W	230/310(Drive side/Driven side)		230/330(Drive side/Driven side)		300		300	
φd	100		100		130		165	
φp	128		156/140(Drive side/Driven side)		190		190	
a	69		69		86		108	
Min. curve Radius (m)	Straight		Straight		Straight		Straight	
Dimensions with respect to I-beam	S	T	U	F	S	T	U	F
450×175×11	102	184	30	453	102	225	30	460
600×190×13	117	189	25	461	117	230	25	468
Approx. weight (kg)	930	990	1,230	1,290	2,340	2,540	2,940	

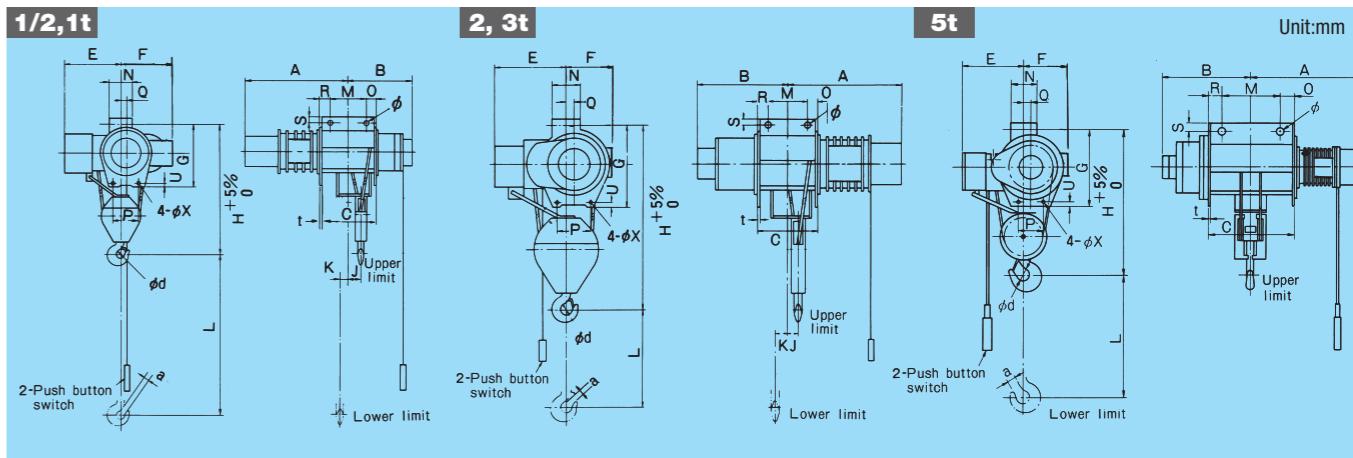
NOTE : Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

# Lug Suspension Type Hoist

## Here's Convenience...

This hoist is handy when hoisting or lowering cargo in a definite location. Transportation of the hoist main body, installation to the ceiling, and hoist removing are quite simple.

## Dimensions

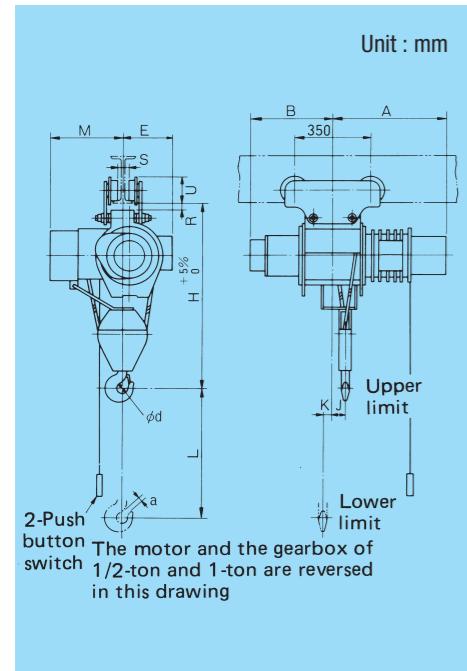


## Table of Dimensions

Model	1/2M <sub>6</sub>	1/2HM <sub>6</sub>	1M <sub>6</sub>	1HM <sub>6</sub>	2M <sub>7</sub>	2HM <sub>7</sub>	3M <sub>6</sub>	3HM <sub>6</sub>	5M <sub>5</sub>	5HM <sub>5</sub>
	Capacity (t)	1/2	1	2	3	5				
L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	8,000	12,000
H	660		710		910		1,050		1,110	
A	485	655	545	715	595	630	645	690	845	955
B	355	380	350	385	435	615	475	660	690	800
M	200		200		200		200		270	
φ	26		26		36		36		46	
N	114		139		139		164		189	
E	335		345		415		460		455	
F	190		255		220		245		305	
φd	40		45		56		71		90	
a	21		23		36		42		58	
J	80	105	85	115	75	100	80	110	—	—
K	20	100	20	90	30	110	35	120	—	—
O	52	80	47	80	56	91	65	106	198	310
R	52	230	47	217	58	237	79	262	198	310
Q	25.5		32.5		35.5		41.5		52.5	
S	30	40	35	40	35		35		50	
C	304	510	294	497	314	528	344	568	666	890
t	9		9		9		9		12	
G	380		390		500		555		590	
P	120		120		120		180		180	
U	28		28		28		35		35	
φX	10		10		10		14		14	
Approx. weight (kg)	95	105	125	145	215	245	295	325	550	610

# Hoist with Push-Driven Trolley

## Dimensions

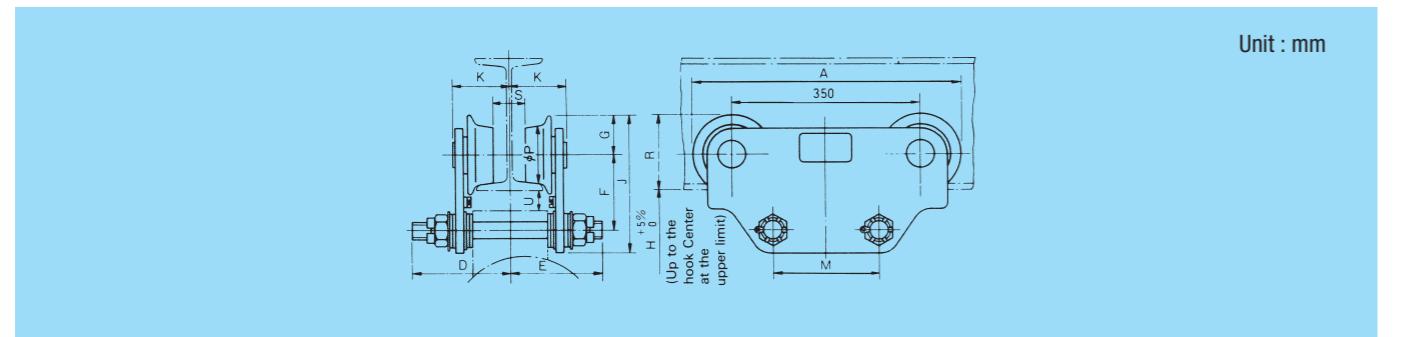


## Table of Dimensions

Model	1/2M-P65	1/2HM-P65	1M-P65	1HM-P65	2M-P75	2HM-P75	3M-P65	3HM-P65	
Hoist type	1/2M <sub>6</sub>	1/2HM <sub>6</sub>	1M <sub>6</sub>	1HM <sub>6</sub>	2M <sub>7</sub>	2HM <sub>7</sub>	3M <sub>6</sub>	3HM <sub>6</sub>	
Trolley type	1P <sub>5</sub>	1P <sub>5</sub>	1P <sub>5</sub>	1P <sub>5</sub>	3P <sub>5</sub>	3P <sub>5</sub>	3P <sub>5</sub>	3P <sub>5</sub>	
Capacity (t)	1/2		1		2		3		
L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	
H	730		775		985		1,115		
A	485	655	545	715	595	630	645	690	
B	355	380	350	385	435	615	475	660	
M	335		345		415		460		
E	190		255		220		245		
K	20	100	20	90	30	110	35	120	
J	80	105	85	115	75	100	80	110	
φd	40		45		56		71		
a	21		23		36		42		
Min. curve radius (m)	4.0		4.0		4.0		4.0		
Dimensions with respect to I-beam	U	R	S	U	R	S	U	R	S
150×75×5.5	38 (28)	115	26						
200×100×7	37 (27)	116	51	32 (27)	116	51	40	140	33
250×125×7.5	34 (24)	118	76	29 (24)	118	76	37	143	58
300×150×11.5				19 (14)	128	101	27	153	83
450×175×11							29	151	108
Approx. weight (kg)	120	130	150	170	265	295	345	375	

NOTES : 1. Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.  
2. ( ) dimensions represent dimensions of 1/2HM<sub>6</sub> and 1HM<sub>6</sub> ( Hoist type )

## Dimensions



## Table of Dimensions

Model	1P <sub>5</sub>				3P <sub>5</sub>							
Capacity (t)	1/2	1	2	3	1/2	1	2	3				
Approx. dimensions (mm)	A	476				500						
	F	120				140						
	G	63				75						
	H	730		775		985		1,115				
	J	223				257						
	M	200				200						
	φp	85				110						
Min. curve radius (m)	4.0				4.0							
Dimensions with respect to I-beam	D	E	K	U	R	S	D	E	K	U	R	S
(150×75×5.5)	178	149	79	38 (28)	115	26						
200×100×7	178	149	92	37 (27)	116	51	178	149	92	32 (27)	116	51
250×125×7.5	178	149	105	34 (24)	118	76	178	149	105	29 (24)	118	76
300×150×11.5					178	149	118	19 (14)	128	101	198	198
450×175×11											198	198
Approx. weight (kg)	25				50							
Applicable hoist type	1/2(H)M <sub>6</sub>		1(H)M <sub>6</sub>		2(H)M <sub>7</sub>		3(H)M <sub>6</sub>					

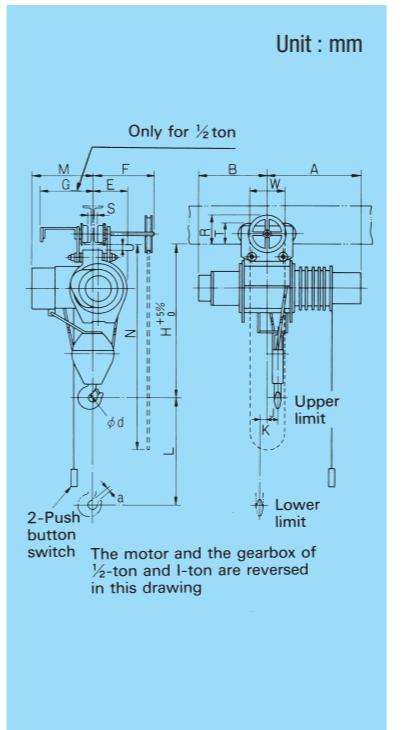
NOTES : 1. Weight indicates empty weight of trolley.  
2. This trolley is only for standard headroom type hoist.  
3. I-beam ( 150×75×5.5 ) is only for 1/2-ton hoist.

4. ( ) dimensions represent dimensions of 1/2HM<sub>6</sub> and 1HM<sub>6</sub> ( Hoist type )

5. Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

# Hoist with Chain-Driven Trolley

## Dimensions



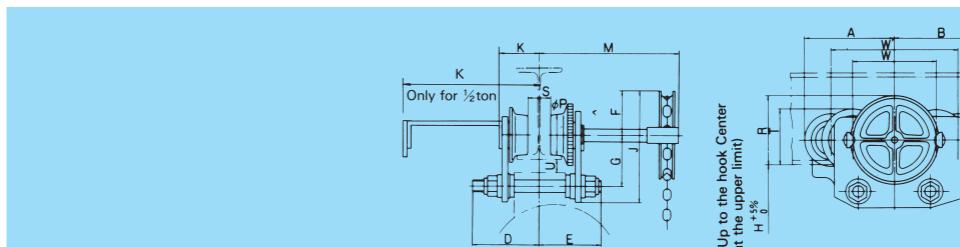
## Table of Dimensions

Model	1/2M-C65	1/2HM-C65	1M-C65	1HM-C65	2M-C75	2HM-C75	3M-C65	3HM-C65				
Hoist type	1/2M <sub>6</sub>	1/2HM <sub>6</sub>	1M <sub>6</sub>	1HM <sub>6</sub>	2M <sub>7</sub>	2HM <sub>7</sub>	3M <sub>6</sub>	3HM <sub>6</sub>				
Trolley type	1C <sub>5</sub>		1C <sub>5</sub>		3C <sub>5</sub>		3C <sub>5</sub>					
Capacity (t)	1/2		1		2		3					
L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000				
H	715		775		985		1,115					
A	485	655	545	715	595	630	645	690				
B	355	380	350	385	435	615	475	660				
M	335		345		415		460					
E	190		255		220		245					
W	189/240		189/350		231/350		231/350					
K	20	100	20	90	30	110	35	120				
J	80	105	85	115	75	100	80	110				
φd	40		45		56		71					
a	21		23		36		42					
Min. curve radius (m)	4.0		4.0		4.0		4.0					
Dimensions with respect to I-beam	F	G	S	T	U	R	F	G	S	T	U	R
150×75×5.5	337	247	26	120	28 (18)	133						
200×100×7	350	260	51	121	27 (17)	134	350	—	51	121	27 (27)	134
250×125×7.5	363	273	76	124	24 (14)	137	363	—	76	124	24 (24)	137
300×150×11.5					376	101	134	19 (14)	147	392	—	83
450×175×11												405
Approx. weight (kg)	6,300	12,800	6,300	12,800	6,200	12,700	6,200	12,700	145	155	165	185

NOTES : 1. ( ) dimensions represent dimensions of 1/2HM<sub>6</sub> and 1HM<sub>6</sub> ( Hoist type )

2. Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

## Dimensions

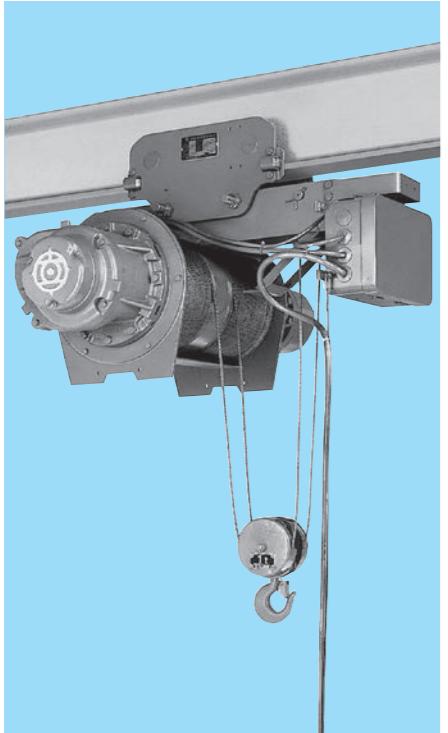


## Table of Dimensions

Model	1/

# Low Headroom Type Hoist

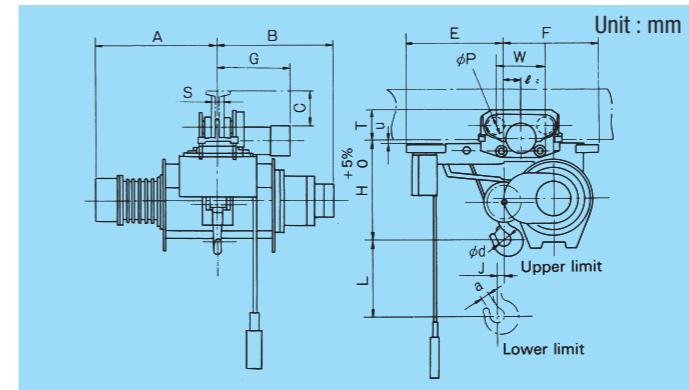
Being designed to enable to lift the load block up to the I-beam bottom, this hoist is suitable for handling bulky cargo under low-ceiling building.



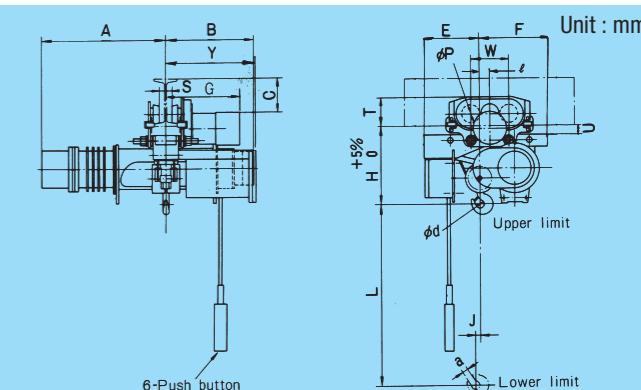
## ■ Specifications

Capacity (t)	1/2	1	2	3	5
Hoisting lift (m)	6	6 and 12			6
Hoisting	Speed (m/min)	50Hz	11	11	8.4
		60Hz	13	13	10
	Motor	50Hz	1.0	1.9	2.9
		60Hz	1.2	2.3	3.5
	No. of poles				4
	Speed (m/min)	50Hz		21	
Traversing		60Hz		25	
	Motor	50Hz	0.30		0.45
		60Hz	0.36		0.55
	No. of poles				4
	No. of falls				4
	Wire rope	Composition	6×W (19)-B	6×Fi (29)-B	
	Diam. (mm)	φ 4	φ 6.3	φ 8	φ 10
	Rating			40% ED 400 Starts/h	
	Operating method			Push-button operation	↑↓○○○○○○
	Electric source (3 phase)			200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz	
	Control voltage			200V 50/60Hz	
	NOTE : 1.The suspension-type hoist and the hoist with chain-driven trolley will be produced on demand.				

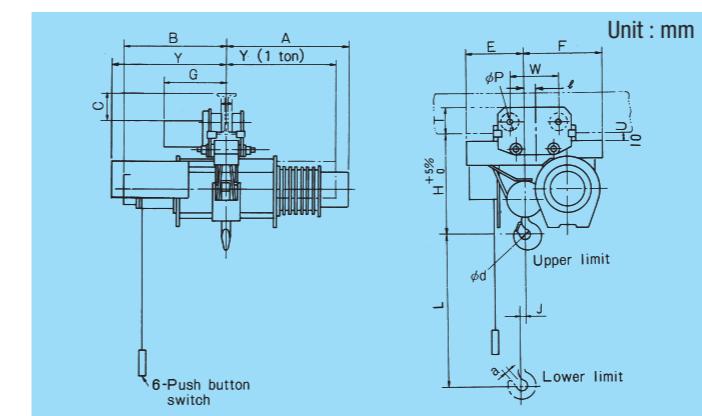
## 1/2L-T<sub>55</sub>



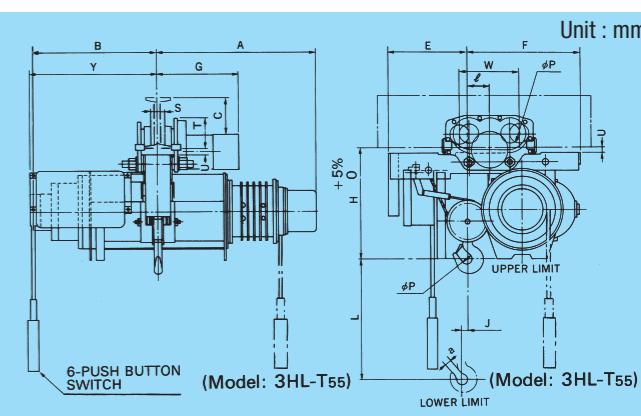
## 1L-T<sub>55</sub>



## 1HL-T<sub>55</sub>, 2L-T<sub>55</sub>, 3L-T<sub>55</sub>



## 2HL-T<sub>55</sub>, 3HL-T<sub>55</sub>, 5L-T<sub>55</sub>



## ■ Table of Dimensions

Model	1/2L-T <sub>55</sub>		1L-T <sub>55</sub>		1HL-T <sub>55</sub>		2L-T <sub>55</sub>		2HL-T <sub>55</sub>		3L-T <sub>55</sub>		3HL-T <sub>55</sub>		5L-T <sub>55</sub>	
Hoist type	1/2L <sub>5</sub>		1L <sub>5</sub>		1HL <sub>5</sub>		2L <sub>5</sub>		2HL <sub>5</sub>		3L <sub>5</sub>		3HL <sub>5</sub>		5L <sub>5</sub>	
Trolley type	1/2T <sub>5</sub>		1T <sub>5</sub>		1T <sub>5</sub>		2T <sub>5</sub>		2T <sub>5</sub>		3T <sub>5</sub>		3HLT <sub>5</sub>		5T <sub>5</sub>	
Capacity (t)	1/2		1		2		3		4		5					
Approx. dimensions (mm)	L	6,000		6,000		12,000		6,000		12,000		6,000		12,000		6,000
	H	400		425		450		515		520		600		650		810
	A	550		665		675		705		785		785		830		845
	B	430		475		560		540		635		600		700		690
	W	200/290		200/290		200/290		230/310		230/410		250/330				
	E	410		295		325		365		380		400		480		610
	F	340		360		465		480		565		575		660		680
	φ d	40		45		56		71		90						
	J	26		28		35		42		43		46		50		35
	Y	—		555		555		630		630		620		620		700
Dimensions with respect to I-beam (mm)	φ p	96		96		96		128		128		156/140(DRIVE SIDE/DRIVEN SIDE)				
	a	21		23		36		42		42		58				
	ℓ	40		54		108		85		104		100		99		89
	Min. curve Radius (m)	1.3(5.0)				1.5				1.8				2.0		3.5
	S	T	U	C	G	S	T	U	C	G	S	T	U	C	G	
(150×75×5.5)	17	147	53	85	361											
200×100×7	42	148	52	135	374	42	148	52	135	374	42	148	32	135	378	
250×125×7.5	67	151	49	185	387	67	151	49	185	387	67	151	29	185	391	
300×150×11.5						92	160	40	225	400	92	160	20	225	404	77
450×175×11														102	185	20
Approx. weight (kg)	155				205				285				310		400	
													435		605	
													750			

NOTES : 1. Dimensions W represent dimensions of drive side/driven side.

2. 1/2 ton-When an I-beam (150×75×5.5) is used, the minimum curve radius is 5m.

3. 1/2 ton-When an I-beam (150×75×5.5) is used, 50mm-thick shims are necessary between the building and the I-beam.

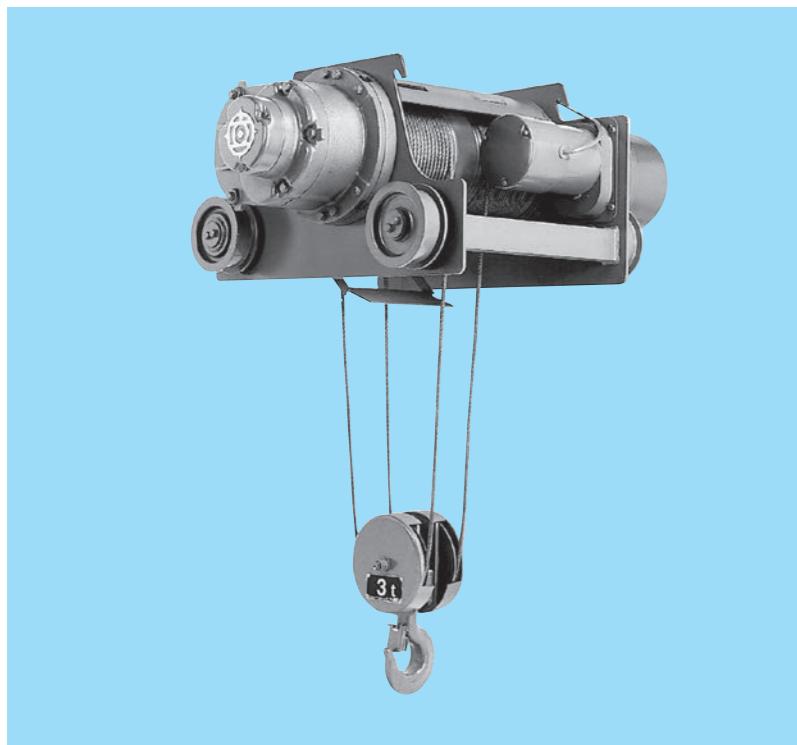
4. Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.



Outline  
A-series  
V-series

Others

# Double-Rail Type Hoist



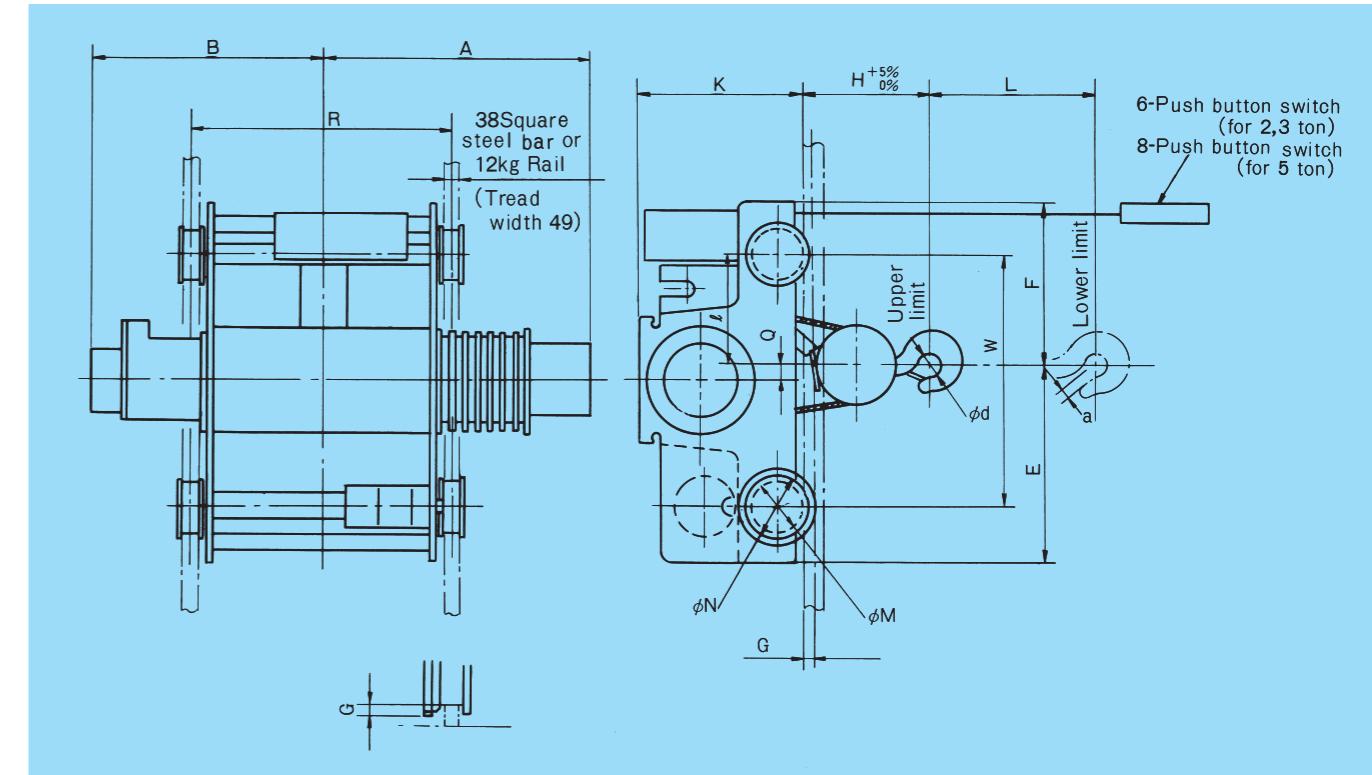
The double-rail hoist is ideally employed as an overhead traveling crane. Since the self-adjusting center core is adopted, the wheels closely follow the rails and are hard to derail during operation. The compact, dustproof structure occupies minimal space and requires less maintenance. Installation cost can be reduced.

## ■ Specifications

Capacity (t)		2	3	5	7.5	10	15	20	30										
Hoisting lift (m)		12	6 and 12	8 and 12	8 and 12	8 and 12	12	12											
Hoisting	Speed (m/min)	50Hz	8.4	7.5	6.7	6.0	5.0	5.0	2.8										
		60Hz	10	9	8	7.2	6.0	6.0	3.3										
	Motor (kW)	50Hz	2.9	4.2	5.9	7.9	8.8	6.7×2	7.5×2										
		60Hz	3.5	5	7	9.5	10.5	8×2	9×2										
Traversing	Speed (m/min)	50Hz	21		14														
		60Hz	25		17														
	Motor (kW)	50Hz	0.30	0.45	0.45	0.45×2	0.45×2	0.45×2	0.7×2										
		60Hz	0.36	0.55	0.55	0.55×2	0.55×2	0.55×2	0.84×2										
Wire rope	No. of falls		4				8												
	Composition		6×Fi (29)-B		6×Fi (29)-B		6×Fi (29)-B	6×Fi (29) WRC-B	6×Fi (29)-B										
	Diam. (mm)		φ 8	φ 10	φ 12.5	φ 14	φ 16	φ 20	φ 22.4	φ 20									
Rating		40% ED 400 starts/h				40% ED 250 starts/h													
Operating method		Push-button operation ↑ ↓ ← → ↻ ↺		Push-button operation ON OFF ↑ ↓ ← → ↻ ↺															
Electric source (3 phase)		200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz																	
Control voltage		200V 50/60Hz																	

# Double-Rail Type Hoist

## ■ Dimensions

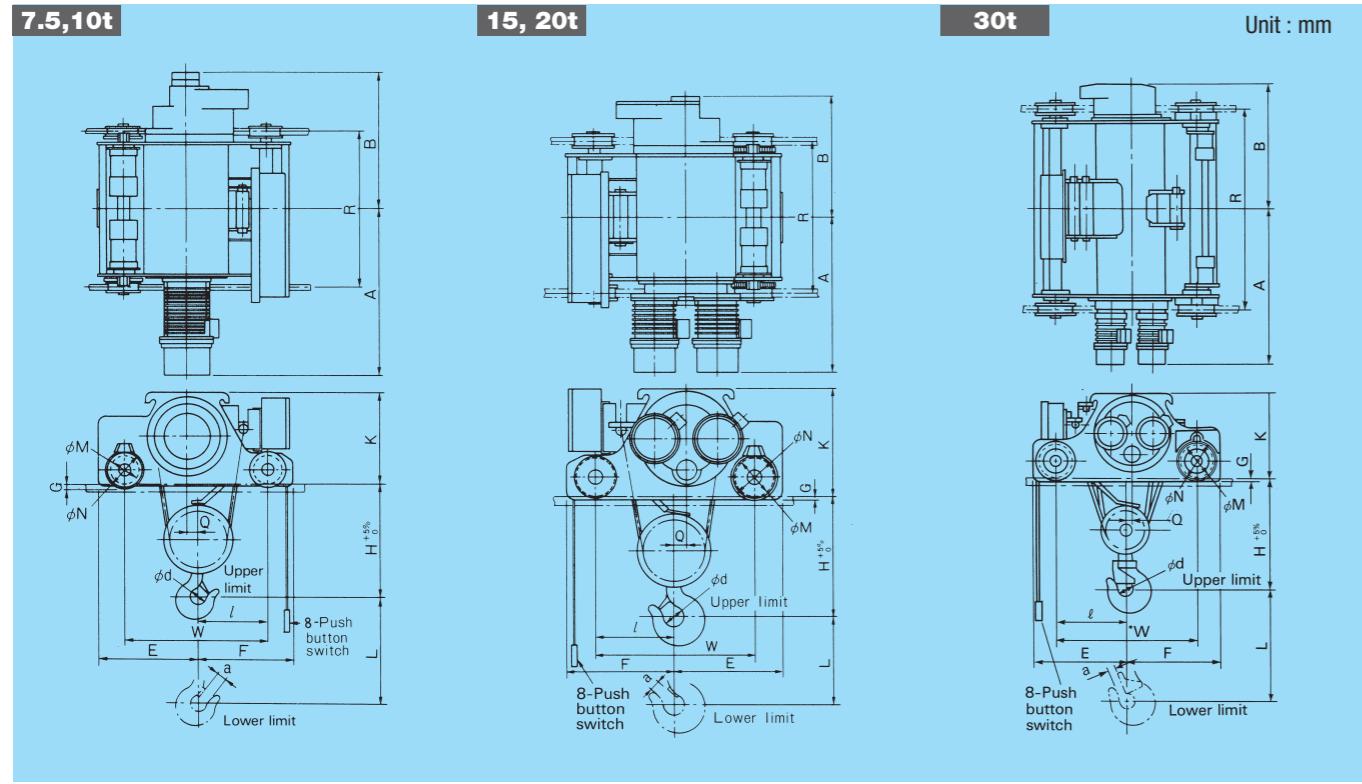


## ■ Table of Dimensions

Model	2HD-T <sub>55</sub>	3D-T <sub>55</sub>	3HD-T <sub>55</sub>	5D-T <sub>55</sub>	5HD-T <sub>55</sub>	
Hoist type	2HD <sub>5</sub>	3D <sub>5</sub>	3HD <sub>5</sub>	5D <sub>5</sub>	5HD <sub>5</sub>	
Trolley type	2DT <sub>5</sub>	3DT <sub>5</sub>	3DT <sub>5</sub>	5DT <sub>5</sub>	5DT <sub>5</sub>	
Capacity (t)	2	3	5			
Approx. dimensions (mm)	L H K R F E W A B φd Q φM φN G ℓ a	12,000 310 430 900 455 425 650 835 675 56 40 160 190 26 350 36	6,000 360 480 650 430 450 650 755 570 71 51 160 190 26 325 42	12,000 360 480 950 430 450 650 915 730 90 55 1,150 530 550 850 845 690 90	8,000 560 500 900 530 550 850 845 690 55 160 190 26 425 58	12,000 560 500 1,150 530 550 850 955 800
Rail (mm)	38 square steel bar or 12 kg rail					
Wheel tread width (mm)	49					
Approx. weight (kg)	380	420	490	680	750	

# Double-Rail Type Hoist

## Dimensions

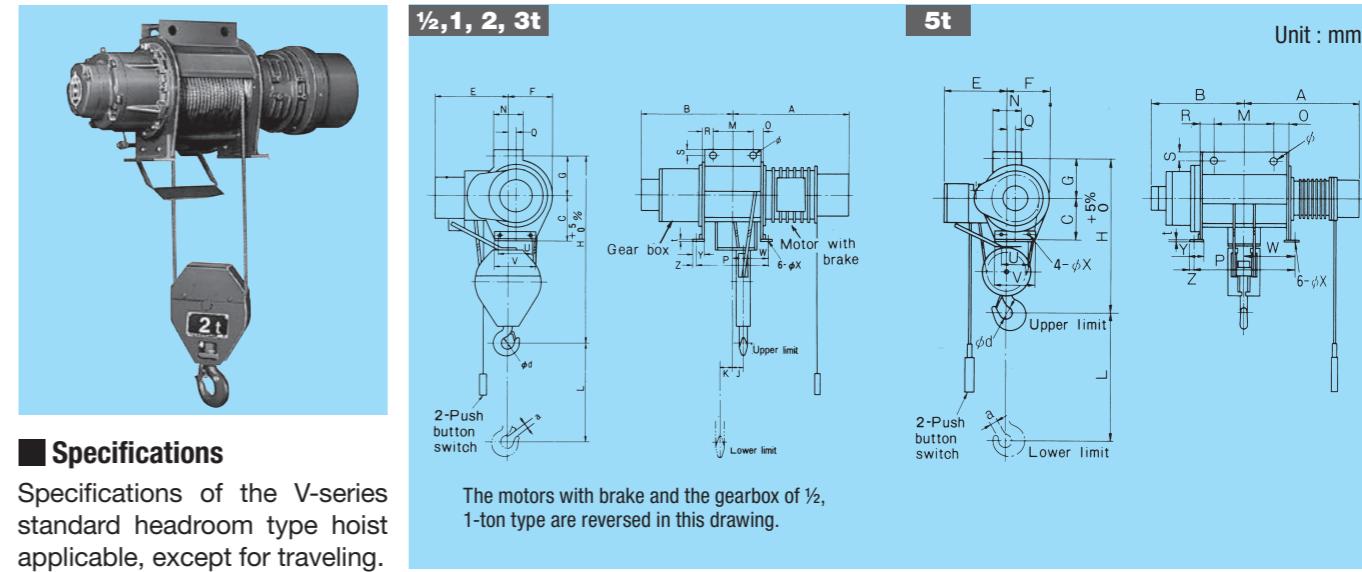


## Table of Dimensions

Model	7.5D-T <sub>55</sub>	7.5HD-T <sub>55</sub>	10D-T <sub>55</sub>	10HD-T <sub>55</sub>	15D-T <sub>55</sub>	15HD-T <sub>55</sub>	20HD-T <sub>55</sub>	30HD-T <sub>55</sub>	
Hoist type	7.5D <sub>5</sub>	7.5HD <sub>5</sub>	10D <sub>5</sub>	10HD <sub>5</sub>	15D <sub>5</sub>	15HD <sub>5</sub>	20HD <sub>5</sub>	30HD <sub>5</sub>	
Trolley type	7.5DT <sub>5</sub>	7.5DT <sub>5</sub>	10DT <sub>5</sub>	10DT <sub>5</sub>	15DT <sub>5</sub>	15DT <sub>5</sub>	20DT <sub>5</sub>	30DT <sub>5</sub>	
Capacity (t)	7.5	10	15	20	30				
Approx. dimensions (mm)	L H K R F E W A B $\phi d$ Q $\phi M$ $\phi N$ G a $\ell$	8,000 515 600 1,000 605 615 865 1,075 830 100 67 195 225 29 69 433	12,000 680 600 1,150 615 650 915 1,150 905 100 70 195 225 29 69 445	8,000 785 730 1,150 700 740 1,040 1,060 960 100 70 250 282 28 86 505	12,000 930 730 1,200 700 740 1,040 1,160 850 130 89 250 282 28 108 505	12,000 1,090 850 1,300 700 740 1,040 1,210 900 165 91 250 282 28 114 685	12,000 1,090 850 2,000 905 935 1,400 1,550 1,250 165 65 350 400 38 114 76	6,000 710 545 715 595 630 200 485 355 200 345 415 220 56 71 42 80 35 65 106 200 270 36 164 460 245 90 — — 80 110 120 106 198 310 35 120 106 198 310 35 260 320 342 315 225 424 648 745 970 205 246 373 485 75 22 12 12 18 18 105 115 135 155 255 295 345 385 560 620	
Rail (mm)	44 square steel bar or 15 kg rail			55 square steel bar or 22 kg rail			65 square steel bar or 37 kg rail		
Wheel tread width (mm)	53		53		66		66		76
Approx. weight (kg)	1,070	1,130	1,260	1,350	2,150	2,250	2,450	4,400	

# Stationary Type Hoist

## Dimensions



## Specifications

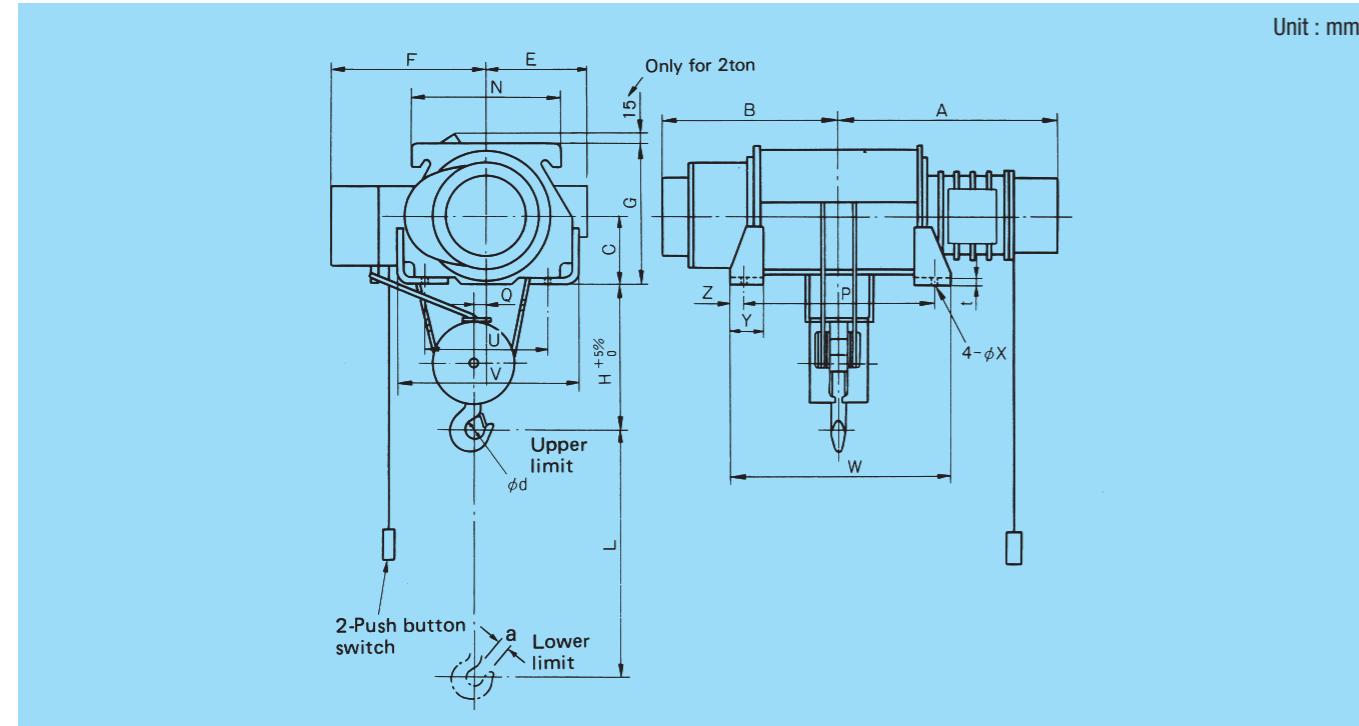
Specifications of the V-series standard headroom type hoist applicable, except for traveling.

## Table of Dimensions

Model Capacity (t)	1/2MW <sub>6</sub>	1/2HMW <sub>6</sub>	1MW <sub>6</sub>	1HMW <sub>6</sub>	2MW <sub>7</sub>	2HMW <sub>7</sub>	3MW <sub>6</sub>	3HMW <sub>6</sub>	5MW <sub>5</sub>	5HMW <sub>5</sub>
	1/2	1	2	3	2	3	4	5		
L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	8,000	12,000
H	660	710	710	910	910	1,050	1,050	1,110		
A	485	655	545	715	595	630	645	690	845	955
B	355	380	350	385	435	615	475	665	690	800
M	200	200	200	200	200	200	200	200	200	270
$\phi$	26	26	36	36	36	36	36	46		
N	114	139	139	139	139	164	164	189		
E	335	345	415	415	415	460	460	455		
F	190	255	220	220	220	245	245	305		
$\phi d$	40	45	56	56	56	71	71	90		
a	21	23	36	36	36	42	42	58		
J	80	105	85	115	75	100	80	110	—	—
K	20	110	20	90	30	110	35	120	—	—
O	52	80	47	80	56	91	65	106	198	310
R	52	230	47	217	58	237	79	262	198	310
Q	25.5	32.5	35.5	35.5	35.5	41.5	41.5	52.5		
S	30	40	35	40	35	35	35	50		
U	180	180	180	180	180	260	260	260		
V	240	265	265	265	265	320	320	320		
C	242	242	312	312	312	342	342	342		
G	150	160	200	200	200	225	225	290		
P	379	582	372	575	392	606	424	648	745	970
W	190	218	186	213	195	240	205	246	373	485
Y	75	70	70	70	70	75	75	75		
Z	22	22	22	22	22	22	22	22		
t	12	12	12	12	12	12	12	12		
$\phi X$	18	18	18	18	18	18	18	18		
Approx. weight (kg)	105	115	135	155	255	295	345	385	560	620

# Stationary Type Hoist

## Dimensions

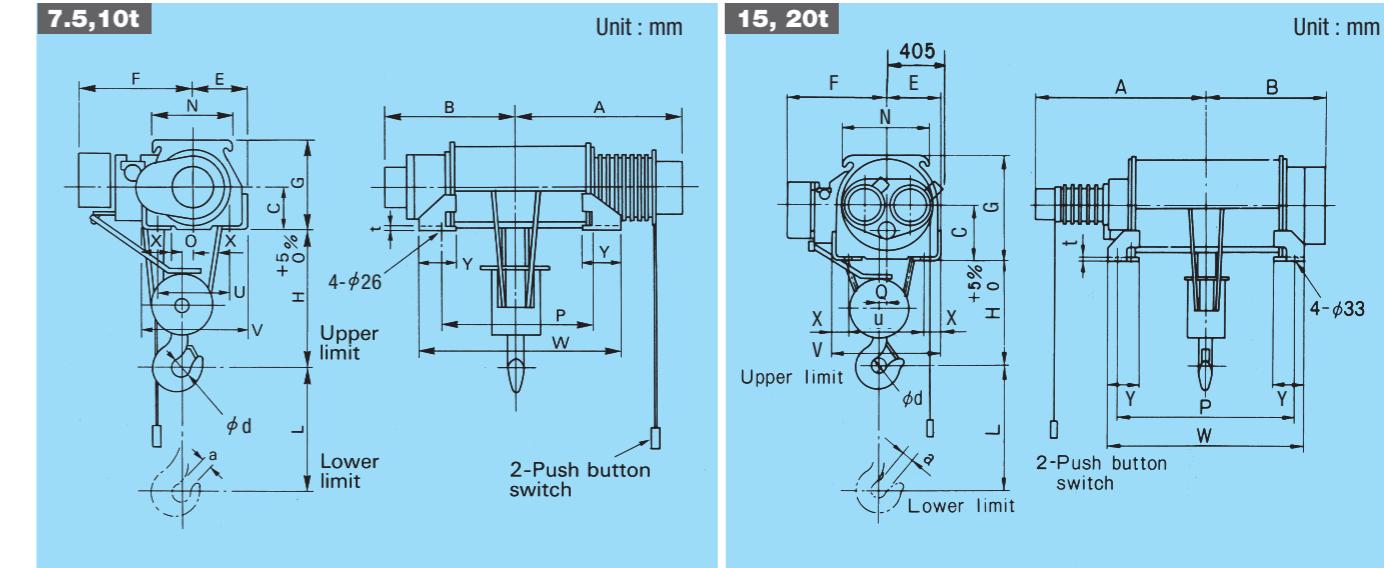


## Table of Dimensions

Model	2HDW <sub>s</sub>	3DW <sub>s</sub>	3HDW <sub>s</sub>	5DW <sub>s</sub>	5HDW <sub>s</sub>
Capacity (t)	2		3		5
L	12,000	6,000	12,000	8,000	12,000
H	390		445		580
A	890	785	950	845	955
B	730	600	765	690	800
E	225		238		278
F	445		475		540
C	171		195		245
G	355		395		485
N	340		400		420
P	980	730	1,030	748	998
Q	40		51		55
U	300		300		380
V	450		476		556
W	1,040	790	1,125	994	1,218
φX	26		26		26
Y	89		115		190
Z	30	30	47.5	123	110
t	19		19		19
φd	56		71		90
a	36		42		58
Approx. weight (kg)	260	340	390	600	665

# Stationary Type Hoist

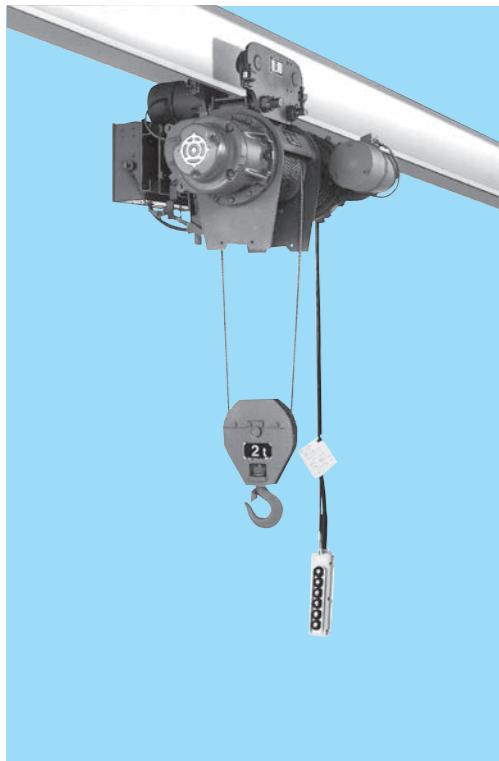
## Dimensions



## Table of Dimensions

Model Capacity (t)	7.5DW <sub>s</sub>		7.5HDW <sub>s</sub>		10DW <sub>s</sub>		10HDW <sub>s</sub>		15DW <sub>s</sub>		15HDW <sub>s</sub>		20HDW <sub>s</sub>	
	L	H	L	H	L	H	L	H	L	H	L	H	L	H
Approx. dimensions (mm)	8,000	635	1,075	905	885	960	1,075	1,150	1,060	1,160	8,000	840	12,000	12,000
	278						309				370			370
	660						665				780			785
	250						300				340			340
	500						600				680			680
	460						500				560			560
	945		1,095		945		1,095		950		1,150		1,250	
	67						70				89			91
	380						380				490			490
	556						618				740			740
	1,315		1,398		1,248		1,398		1,200		1,400		1,494	
	148						179				200			200
	220		220		207		220		240		240		240	
	100										130			165
	19						19				22			22
	69						69				86			108
Approx. weight (kg)	800		860		1,040		1,080		1,850		2,000		2,150	

# Hoist with Creep Speed for Hoisting



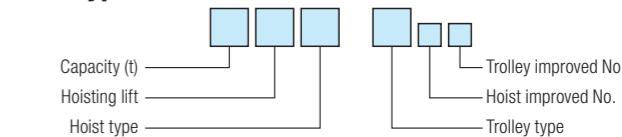
## With their fine speed adjustment, Hitachi's hoists meet today's needs for safer and more accurate transfer work

Today's increasingly diversified transfer operations in the field are calling for hoists with functions for transferring loads with higher safety and efficiency. Our researchers, with their time-tested expertise in hoist manufacture, have come up with a new family of hoists incorporating fine speed adjustment capability. The novel hoists offer features that promise higher performance, better maintainability and longer life.

## ■ Standard specifications

- Power source  
3-phase 200V 50/60Hz, 220V 60Hz, 380V-400V 50Hz, 415V 50Hz, 440-460 60Hz
- Operating method  
By 6 pushbuttons on the floor : (↑) (↓) (⊖) (⊖) (⊖) and (⊖)  
(2-step motion on (↑) and (↓), 1st step for creep speed and 2nd step for standard speed)  
8 pushbuttons on 5t double rail type and 7.5t or greater
- Rating  
30 minutes (as specified by JIS C9620)  
400 starts/hr (250 starts/hr) 40% ED (40% ED)  
Those in parentheses are for 15t or greater.
- Power feed method  
By cable or collector (The cable and collector are not provided.)
- Structure  
Indoor type. Install a shelter with roof to avoid rain falling on the hoist when using it outdoors.
- Ambient temperature  
-10°C to 40°C
- Humidity  
Up to 90% (No condensation)
- Applicable standard  
Structural Code for Cranes (Japan)

## ■ Type identification



Capacity	Hoisting lift		Hoist type	Trolley type
	Low lift	High lift		
Rated load indicated by tons	No mark	H	V-series Standard headroom type ······MC Low headroom type ······LC Double rail type ······DC	Manual driven trolley ······P Chain driven trolley ······C Motorized trolley ······T

## Example

2t high-lift normal type hoist with UP (DOWN) creep speed

**2 H MC - T 7 5**

NOTE : The machine type is separately made for the hoist and trolley.  
Example : Nameplate of hoist : 2HMC  
Nameplate of trolley : 2T5

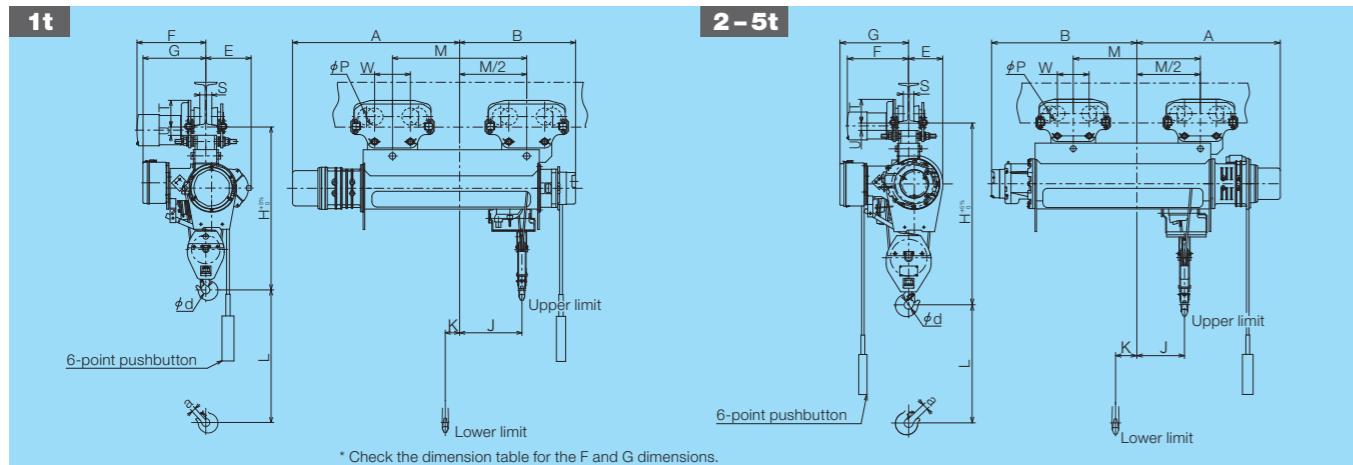
## ■ Specifications table

type			STANDARD-HEADROOM TYPE HOIST									LOW-HEADROOM TYPE HOIST									DOUBLE-RAIL TYPE HOIST								
Capacity (t)			1/2	1	2	3	5	7.5	10	15	20		1/2	1	2	3	5	2	3	5	7.5	10	15	20	30				
Hoisting lift (m)			6, 12				8, 12				12		6	6, 12				6	12	8, 12				12					
Hoisting	Speed (m/min)	50Hz	11/1.1	11/1.1	8.4/0.84	7.5/0.75	6.7/0.67	6/0.6	5/0.5	5/0.5	4.2/0.42		11/1.1	11/1.1	8.4/0.84	7.5/0.75	6.7/0.67	8.4/0.84	7.5/0.75	6.7/0.67	6/0.6	5/0.5	5/0.5	4.2/0.42	2.8/0.28				
		60Hz	13/1.3	13/1.3	10/1	9/0.9	8/0.8	7.2/0.72	6/0.6	6/0.6	5/0.5		13/1.3	13/1.3	10/1	9/0.9	8/0.8	10/1	9/0.9	8/0.8	7.2/0.72	6/0.6	6/0.6	5/0.5	3.3/0.33				
	Motor	50Hz	1/0.1	1.9/0.19	2.9/0.29	4.2/0.42	5.9/0.59	7.9/1.0	8.8/1.0	6.7/1.1×2	7.5/1.0×2		1/0.1	1.9/0.19	2.9/0.29	4.2/0.42	5.9/0.59	2.9/0.29	4.2/0.42	5.9/0.59	7.9/1	8.8/1	6.7/1×2	7.5/1×2	7.5/1×2				
		60Hz	1.2/0.12	2.3/0.23	3.5/0.35	5/0.5	7/0.7	9.5/1.2	10.5/1.2	8/1.2×2	9/1.2×2		1.2/0.12	2.3/0.23	3.5/0.35	5/0.5	7/0.7	3.5/0.35	5/0.5	7/0.7	9.5/1.2	10.5/1.2	8/1.2×2	9/1.2×2	9/1.2×2				
No.of poles			4/4										4/4				4/4												
Traversing	Speed (m/min)	50Hz	21				14		14				21				21		14				14						
		60Hz	25				17		17				25				25		17				17						
	Motor	50Hz	0.30	0.30	0.30	0.45	0.63	0.47×2	0.47×2	0.7×2	0.7×2		0.30	0.30	0.30	0.45	0.63	0.30	0.45	0.45	0.45×2	0.45×2	0.45×2	0.45×2	0.70×2				
		60Hz	0.36	0.36	0.36	0.55	0.75	0.56×2	0.56×2	0.84×2	0.84×2		0.36	0.36	0.36	0.55	0.75	0.36	0.55	0.55	0.55×2	0.55×2	0.55×2	0.55×2	0.84×2				
No.of poles			4				6		4				4				4		4				4						
Wire rope	No. of falls		2				4						4				4				8								
	Composition		6×W(19)-B	6×Fi(29)-B						6×Fi(29)IWRC-B			6×W(19)-B	6×Fi(29)-B			6×Fi(29)-B	6×Fi(29)-B			6×Fi(29)IWRC-B	6×Fi(29)-B							
	Diam.(mm)		φ6.3	φ8	φ11.2	φ14	φ12.5	φ14	φ16	φ20	φ22.4		φ4	φ6.3	φ8	φ10	φ12.5	φ8	φ10	φ12.5	φ14	φ16	φ20	φ22.4	φ20				

# Ultra High Lift Type Hoist

## Standard Type Hoist / Hoist with Motorized Trolley ( 1 – 5t )

### Dimensions



### Specifications Table

Model	1MU-T <sub>65</sub>	2MU-T <sub>75</sub>	3MU-T <sub>65</sub>	5MU-T <sub>65</sub>								
Hoist type	1MU <sub>6</sub>	2MU <sub>7</sub>	3MU <sub>6</sub>	5MU <sub>6</sub>								
Trolley type	1/2T <sub>5</sub> ×2	1T <sub>5</sub> ×2	2T <sub>5</sub> ×2	3T <sub>5</sub> ×2								
Rated load (t)	1	2	3	5								
Lift (m)	24	36	24	36								
Hoisting speed (m/min)	50Hz 11	50Hz 8.4	50Hz 7.5	50Hz 6.7								
	60Hz 13		60Hz 10	60Hz 9.0								
Hoisting motor (kW)	50Hz 1.9	50Hz 2.9	50Hz 4.2	50Hz 5.9								
	60Hz 2.3		60Hz 3.5	60Hz 5.0								
Traversing speed (m/min)	50Hz 21		50Hz 25	50Hz 21								
Traversing motor (kW)	50Hz 0.30×2	50Hz 0.30×2	50Hz 0.30×2	50Hz 0.45×2								
	60Hz 0.36×2		60Hz 0.36×2	60Hz 0.36×2								
Electric source (3-phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz											
Rating	40%ED, 400starts/h											
No. of falls - Diameter (mm) and [Composition] of the wire rope	2- φ 8 [4×F(40)-B]		2- φ 11.2 [4×F(40)-B]		2- φ 14 (6×37-A)		2- φ 18 (6×37-A)					
Approx. weight (kg)	385	440	475	605	645	760	1,140	1,250				
L	24,000	36,000	24,000	36,000	24,000	36,000	24,000	36,000				
H	900/950		1,140/(1,190)		1,250/(1,330)		1,490/(1,600)					
A	935	1,125	905	1,115	950	1,180	1,080	1,310				
B	650	875	915	1,045	920	1,150	935	1,175				
E	255		220		245		325					
G	355		425		470		550					
J	348	573	300	490	346	576	400	633				
K	80	52	134	153	120	122	70	77				
M	750	1,200	800	1,220	800	1,260	940	1,385				
W	200/290		200/290		200/290		230/310					
φd	45		56		71		90					
a	23		36		42		58					
φp	96		96		96		128					
Clearance to I-beam (mm)	F	S	T	U	F	S	T	U	F	S	T	U
200×100×7	374	42	148	47	—	—	—	—	—	—	—	—
250×125×7.5	387	67	151	44	387	67	151	44	393	67	153	39
300×150×11.5	—	—	—	—	400	92	160	35	406	92	163	29
450×175×11	—	—	—	—	—	—	—	—	—	443	102	185
Min. curve radius (m)	Straight line (1.5)			Straight line (1.8)			Straight line (2.0)			Straight line (3.0)		

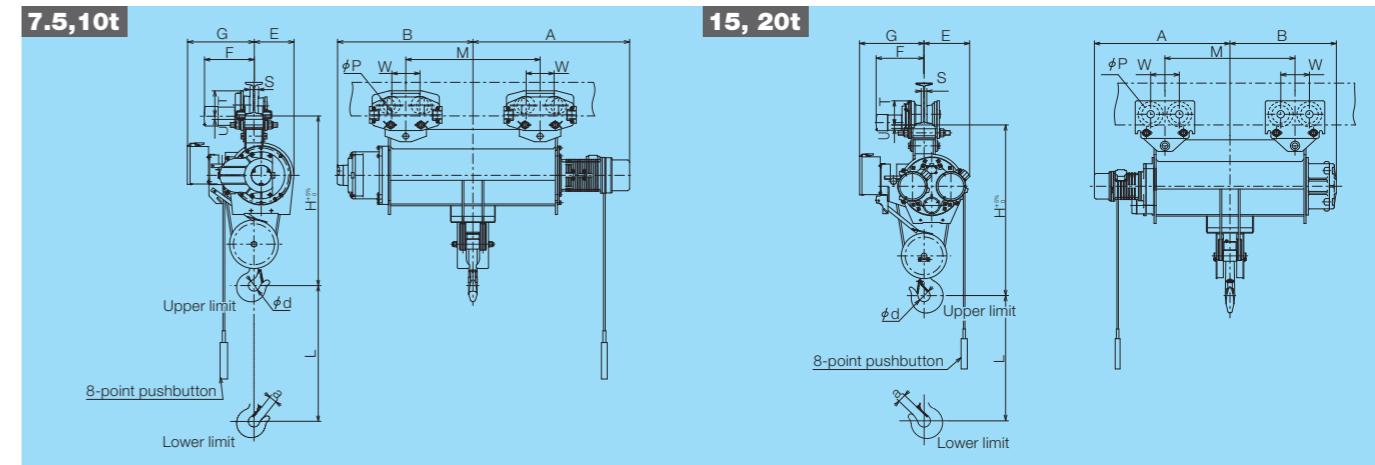
NOTES : 1. The number in parentheses of dimension H stands for the I-beam bending curve.  
2. The number in parentheses of the Min. curve radius indicates the minimum radius of the I-beam bending curve.  
3. The ultra high lift type for straight lines cannot be used for curved lines.

4. The numbers in dimension W indicate the values for the driving side/driven side.  
5. Unless otherwise specified, the product is delivered in the I-beam dimension of ■.  
6. If the rail contains curves, please notify us.

# Ultra High Lift Type Hoist

## Hoist with Motorized Trolley ( 7.5–20t )

### Dimensions



### Specifications Table

Model	7.5MU-T <sub>55</sub>	10MU-T <sub>55</sub>	15MU-T <sub>56</sub>	20MU-T <sub>56</sub>								
Hoist type	7.5MU <sub>5</sub>	10MU <sub>5</sub>	15MU <sub>5</sub>	20MU <sub>5</sub>								
Trolley type	4FT <sub>5</sub> ×2	5FT <sub>5</sub> ×2	10AT <sub>6</sub> ×2	10AT <sub>6</sub> ×2								
Rated load (t)	7.5	10	15	20								
Lift (m)	20	30	20	30								
Hoisting speed (m/min)	50Hz 6.0	50Hz 5.0	50Hz 5.0	50Hz 4.2								
	60Hz 7.2		60Hz 6.0	60Hz 5.0								
Hoisting motor (kW)	50Hz 7.9	50Hz 8.8	50Hz 6.7×2	50Hz 7.5×2								
	60Hz 9.5		60Hz 10.5	60Hz 9.0×2								
Traversing speed (m/min)	50Hz 14		50Hz 17	50Hz 14								
Traversing motor (kW)	50Hz 0.47×2	50Hz 0.47×2	50Hz 0.7×2	50Hz 0.7×2								
	60Hz 0.56×2		60Hz 0.56×2	60Hz 0.84×2								
Electric source (3-phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz											
Rating	40%ED, 400starts/h											
No. of falls - Diameter (mm) and [Composition] of the wire rope	4- φ 14 [6×Fi(29)-B]		4- φ 16 [6×Fi(29)-B]		4- φ 20 [6×Fi(29)-B]		4- φ 22.4 [6×Fi(29)-B]IWRC					
Approx. weight (kg)	1,450	1,650	1,870	2,470	3,700	4,200	3,900	4,600				
L	20,000	30,000	20,000	30,000	20,000	30,000	20,000	30,000				
H	1,345	1,345	1,515	1,515	1,865	1,865	2,010	2,010				
A	1,400	1,650	1,410	1,660	1,455	1,760	1,550	1,890				
B	1,160	1,410	1,220	1,470	1,140	1,450	1,250	1,590				
E	320	320	360	360	500	500	500	500				
G	600	600	600	600	705	705	705	705				
M	1,200	1,700	1,200	1,700	1,400	2,000	1,530	2,180				
W	230/310	230/310	250/330	250/330	309/309	309/309	309/309	309/309				
φd	100	100	100	100	130	130	165	165				
a	69	69	69	69	86	86	108	108				
φp	128	128	156/140	156/140	190	190	190	190				
Clearance to I-beam (mm)	F	S	T	U	F	S	T	U	F	S	T	U
450×175×11	453	102	184	30	460	102	225	30	524	62	280	30
600×190×13	461	117	189	25	468	117	230	25	532	77	285	25
Min. curve radius (m)	Straight line				Straight line				Straight line			

NOTES : 1. The numbers in dimension W indicate the values for the driving side/driven side.

2. Please contact us when the rail contains curves.

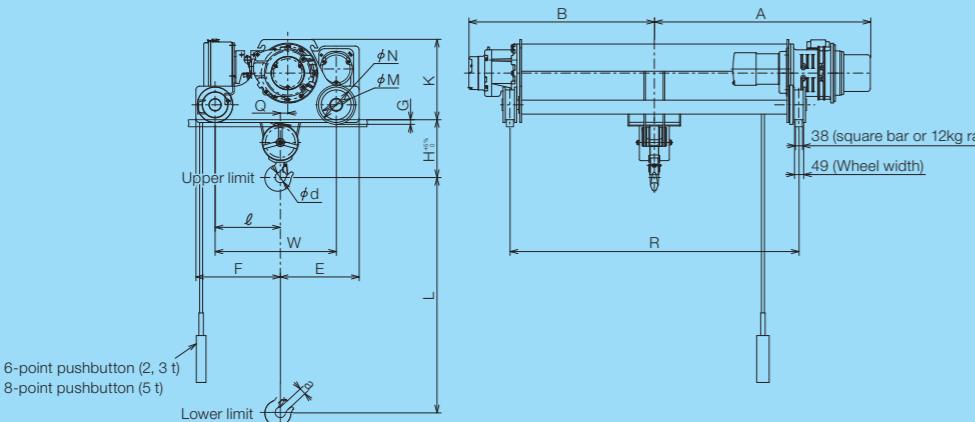
3. Unless otherwise specified, the product is delivered in the I-beam dimension of ■.

# Ultra High Lift Type Hoist

## Double Rail Type Hoist ( 2-5t )

### Dimensions

2-5t



### Specifications Table

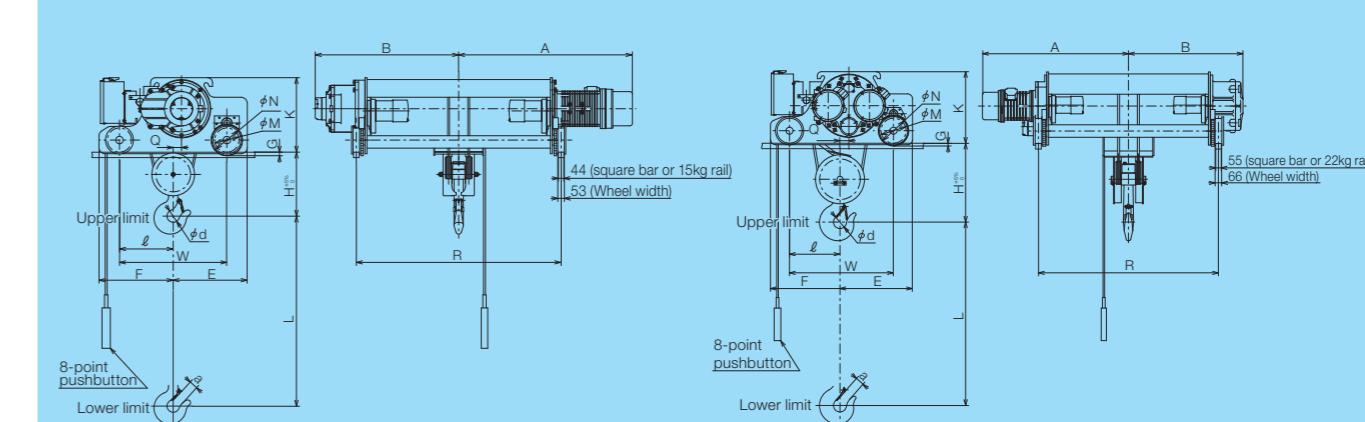
Model	2DU-T <sub>55</sub>	3DU-T <sub>55</sub>	5DU-T <sub>55</sub>
Hoist type	2DU <sub>5</sub>	3DU <sub>5</sub>	5DU <sub>5</sub>
Trolley type	2DT <sub>5</sub>	3DT <sub>5</sub>	5DT <sub>5</sub>
Rated load (t)	2	3	5
Lift (m)	20	20	20
Hoisting speed (m/min)	50Hz 8.4 60Hz 10	7.5 9.0 8.0	6.7
Hoisting motor (kW)	50Hz 2.9 60Hz 3.5	4.2 5.0	5.9 7.0
Traversing speed (m/min)	50Hz 21 60Hz 25		
Traversing motor (kW)	50Hz 0.30 60Hz 0.36	0.45 0.55	0.45 0.55
Electric source (3-phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz		
Rating	40% ED, 400 starts/h		
No. of falls - Diameter (mm) and [Composition] of the wire rope	4- φ 8 [6×Fi(29)-B]	4- φ 10 [6×Fi(29)-B]	4- φ 12.5 [6×Fi(29)-B]
Approx. weight (kg)	560	700	1,100
L	20,000	20,000	20,000
H	310	360	560
K	430	480	500
R	1,550	1,550	1,850
F	455	430	530
E	425	450	550
W	650	650	850
A	1,170	1,215	1,320
B	1,010	1,030	1,165
φ d	56	71	90
Q	40	51	55
φ M	160	160	160
φ N	190	190	190
G	26	26	26
ℓ	350	325	425
a	36	42	58
Square rail (mm)	38 square bar or 12kg rail		
Wheel width (mm)	49	49	49

# Ultra High Lift Type Hoist

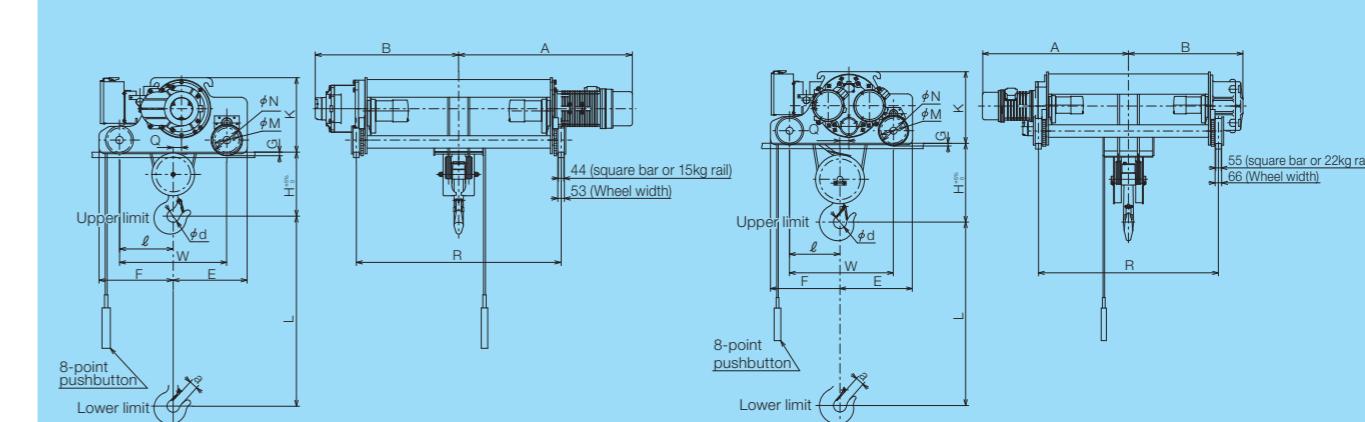
## Double Rail Type Hoist ( 7.5-20t )

### Dimensions

7.5, 10t



15, 20t



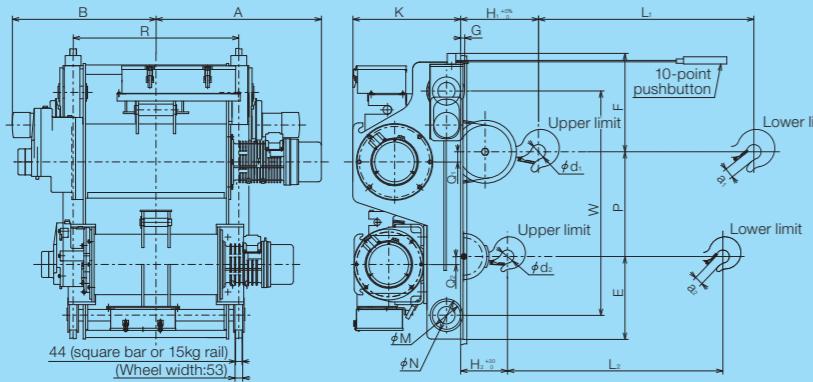
### Specifications Table

Model	7.5DU-T <sub>55</sub>	10DU-T <sub>55</sub>	15DU-T <sub>55</sub>	20DU-T <sub>55</sub>
Hoist type	7.5DU <sub>5</sub>	10DU <sub>5</sub>	15DU <sub>5</sub>	20DU <sub>5</sub>
Trolley type	7.5DT <sub>5</sub>	10DT <sub>5</sub>	20DT <sub>5</sub>	20DT <sub>5</sub>
Rated load (t)	7.5	7.5	10	10
Lift (m)	20	30	20	30
Hoisting speed (m/min)	50Hz 6.0 60Hz 7.2	6.0 6.0 8.0 7.2	5.0 5.0 5.0 6.0	5.0 5.0 4.2 5.0
Hoisting motor (kW)	50Hz 7.9 60Hz 9.5	7.9 8.8 5.9 9.5	8.8 6.7×2 6.7×2 10.5	6.7×2 7.5×2 7.5×2 8.0×2
Traversing speed (m/min)	50Hz 21 60Hz 25			14
Traversing motor (kW)	50Hz 0.45×2 60Hz 0.55×2	0.45×2 0.55×2	0.45×2 0.55×2	0.45×2 0.55×2
Electric source (3-phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz			
Rating	40% ED, 400 starts/h			
No. of falls - Diameter (mm) and [Composition] of the wire rope	4- φ 14 [6×Fi(29)-B]	4- φ 16 [6×Fi(19)-B]	4- φ 20 [6×Fi(29)-B]	4- φ 22.4 [6×Fi(29) WRG-B]
Approx. weight (kg)	1,500	1,650	1,700	1,810
L	20,000	30,000	20,000	30,000
H	515	515	680	680
K	600	600	600	730
R	1,650	2,150	1,650	2,150
F	605	605	615	615
E	615	615	650	650
W	865	865	915	915
A	1,400	1,650	1,405	1,660
B	1,155	1,400	1,210	1,470
φ d	100	100	100	100
Q	67	67	70	70
φ M	195	195	195	195
φ N	225	225	225	225
G	29	29	29	28
ℓ	433	433	445	445
a	69	69	69	86
Square rail (mm)	44 square bar or 15kg rail			55 square bar or 22kg rail
Wheel width (mm)	53	53	53	66

# Pair Hoist

( 7.5, 10t )

## Dimensions



Notes  
 1. The lower limit position of the hook for the main hoisting rope differs from that for the auxiliary hoisting rope. Please be sure to take this into account when designing the crane system.  
 2. Double lifting is not allowed.

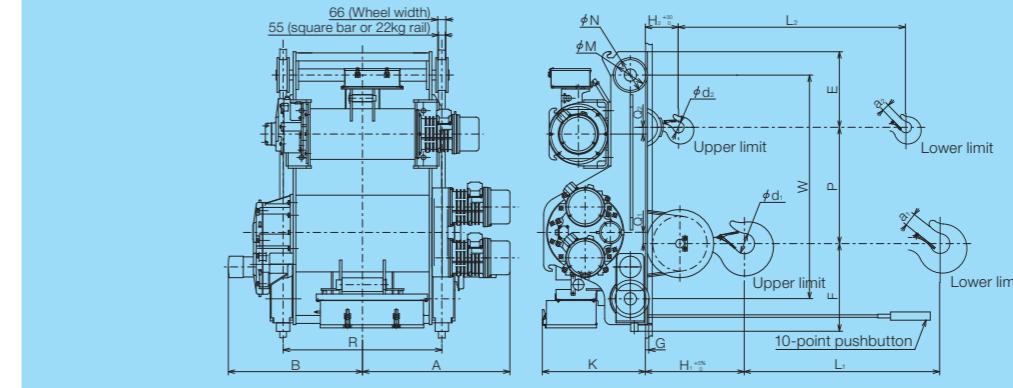
## Specifications Table

Model	7.5D/2HD-T <sub>555</sub>	7.5HD/2HD-T <sub>555</sub>	7.5D/3HD-T <sub>555</sub>	7.5HD/3HD-T <sub>555</sub>	10D/2HD-T <sub>555</sub>	10HD/2HD-T <sub>555</sub>	10D/3HD-T <sub>555</sub>	10HD/3HD-T <sub>555</sub>	10D/5D-T <sub>555</sub>	10HD/5HD-T <sub>555</sub>					
Hoist type	7.5D <sub>s</sub>	7.5HD <sub>s</sub>	7.5D <sub>s</sub>	7.5HD <sub>s</sub>	10D <sub>s</sub>	10HD <sub>s</sub>	10D <sub>s</sub>	10HD <sub>s</sub>	10D <sub>s</sub>	10HD <sub>s</sub>					
Hoist type	2HDWZ <sub>s</sub>	2HDWZ <sub>s</sub>	3HDWZ <sub>s</sub>	3HDWZ <sub>s</sub>	2HDWZ <sub>s</sub>	2HDWZ <sub>s</sub>	3HDWZ <sub>s</sub>	3HDWZ <sub>s</sub>	5DWZ <sub>s</sub>	5HDWZ <sub>s</sub>					
Trolley type	7.5/2DT <sub>s</sub>		7.5/3DT <sub>s</sub>		10/2DT <sub>s</sub>		10/3DT <sub>s</sub>		10/5DT <sub>s</sub>						
	Rated load (t)	7.5				10									
	Lift (m)	8	12	8	12	8	12	8	12						
Main rope	Speed (m/min)	50Hz	60Hz			6.0		5.0							
	Motor (kW)	50Hz	60Hz			7.2		6.0							
		50Hz	60Hz			7.9		8.8							
	No. of poles	4				9.5		10.5							
	No. of falls - Diameter (mm) [Composition]	4- φ 14 [6×Fi(29)-B]				4- φ 14 [6×Fi(29)-B]									
Auxiliary rope	Rated load (t)	2	3			2	3	5							
	Lift (m)	8	12	8	12	8	12	8	12						
	Speed (m/min)	50Hz	60Hz			8.4	7.5	8.4	7.5						
	Motor (kW)	50Hz	60Hz			10	9.0	10	9.0						
Traversing	Motor (kW)	50Hz	60Hz			2.9	4.2	2.9	4.2						
	No. of poles	4	5.0			3.5	5.0	5.0	5.9						
	No. of falls - Diameter (mm) [Composition]	4- φ 8 [6×Fi(29)-B]	4- φ 10 [6×Fi(29)-B]	4- φ 8 [6×Fi(29)-B]	4- φ 10 [6×Fi(29)-B]	4- φ 12.5 [6×Fi(29)-B]	4- φ 12.5 [6×Fi(29)-B]	4- φ 12.5 [6×Fi(29)-B]	4- φ 12.5 [6×Fi(29)-B]						
	Rating	14	17	17	17	14	17	14	17						
	Electric source (3-phase)	40% ED, 400 starts/h													
	Operation method	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz													
	Above-floor 10-point pushbutton (ON, OFF, Main UP, Main DN, Aux. UP, Aux. DN, East, West, South, North)														
Approx. weight (kg)	1,600	1,660	1,690	1,750	1,710	1,800	1,800	2,100	1,830	2,160					
Approx. dimensions (mm)	L <sub>1</sub>	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	8,000					
	L <sub>2</sub>	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	8,000					
	H <sub>1</sub>	415				540									
	H <sub>2</sub>	145	195		135		195	325							
	K	750				750									
	R	1,000	1,150	1,000	1,150	1,000	1,150	1,000	1,150						
	F	675	675	675	675	675	675	675	675						
	E	635	635	645	645	635	635	645	630	630					
	P	710				710				725					
	W	1,550				1,550									
	A	1,075	1,150	1,075	1,150	1,075	1,150	1,075	1,150						
	B	935	1,010	935	1,010	935	1,010	935	1,010						
	φ d <sub>1</sub>	100				100									
	a <sub>1</sub>	69				69									
	φ d <sub>2</sub>	56	71		56	71		90							
	a <sub>2</sub>	36	42		36	42		58							
	Q <sub>1</sub>	67				70									
	Q <sub>2</sub>	40	51		40	51		55							
	φ M	195				195									
	φ N	225				225									
	G	29				29									
Square rail	44 square bar or 15kg rail				44 square bar or 15kg rail										
Wheel width (mm)	53				53										

# Pair Hoist

( 15 t, 20t )

## Dimensions



Notes  
 1. The lower limit position of the hook for the main hoisting rope differs from that for the auxiliary hoisting rope. Please be sure to take this into account when designing the crane system.  
 2. Double lifting is not allowed.

## Specifications Table

Model	15D/2HD-T <sub>555</sub>	15HD/2HD-T <sub>555</sub>	15D/3HD-T <sub>555</sub>	15HD/3HD-T <sub>555</sub>	15D/5D-T <sub>555</sub>	15HD/5D-T <sub>555</sub>	20D/2HD-T <sub>555</sub>	20HD/2HD-T <sub>555</sub>	20D/3HD-T <sub>555</sub>	20HD/3HD-T <sub>555</sub>	20D/5HD-T <sub>555</sub>
Hoist type	15D <sub>s</sub>	15HD <sub>s</sub>	15D <sub>s</sub>	15HD <sub>s</sub>	15D <sub>s</sub>	15HD <sub>s</sub>	20D <sub>s</sub>	20HD <sub>s</sub>	20D <sub>s</sub>	20HD <sub>s</sub>	20D <sub>s</sub>
Hoist type	2HDW <sub>s</sub>	2HDW <sub>s</sub>	3HDW <sub>s</sub>	3HDW <sub>s</sub>	5DW <sub>s</sub>	5HDW <sub>s</sub>	2HDW <sub>s</sub>	2HDW <sub>s</sub>	3HDW <sub>s</sub>	5HDW <sub>s</sub>	5HDW <sub>s</sub>
Trolley type	15/2DT <sub>s</sub>	15/2DT <sub>s</sub>	15/3DT <sub>s</sub>	15/3DT <sub>s</sub>	15/3DT <sub>s</sub>	15/3DT <sub>s</sub>	15/2DT <sub>s</sub>	15/2DT <sub>s</sub>	15/3DT <sub>s</sub>	15/3DT <sub>s</sub>	15/5DT <sub>s</sub>
	Rated load (t)	15					20				
	Lift (m)	8	12	8	12	8	12	8	12	8	

# Special Hoisting Speed Type Hoist

## ■ Specifications Table

		(Unit: m/min)									
Rated load (t)	Standard speed	Low-speed hoisting		High-speed hoisting		* Dual-speed hoisting					
		Half (1/2 speed)	Creep (1/4 speed)	Fast (x1.5 speed)	Fast (x2 speed)	Standard / 1/10 speed (10 : 1)	Standard / 1/2 speed (2 : 1)	Half / 1/10 speed (5 : 1)	Half / 1/20 speed (10 : 1)	Standard x1.5 / 0.75 speed (2 : 1)	Standard x2 / standard speed (2 : 1)
1/2	11	5.5	—	—	—	11/1.1	11/5.5	5.5/1.1	5.5/0.55	—	—
1	11	5.5	2.8	16.8	22	11/1.1	11/5.5	5.5/1.1	5.5/0.55	16.8/8.4	22/11
2	8.4	4.2	2.1	11	15	8.4/0.84	8.4/4.2	4.2/0.84	4.2/0.42	11/5.5	15/7.5
3	7.5	3.7	1.9	11	15	7.5/0.75	7.5/3.7	3.7/0.75	3.7/0.37	11/5.5	15/7.5
5	6.7	3.4	1.7	—	10	6.7/0.67	6.7/3.4	3.4/0.67	3.4/0.34	—	10/5.0
7.5	6.0	3.0	1.5	—	10	6.0/0.6	6.0/3.0	3.0/0.60	3.0/0.30	—	—
10	5.0	2.5	1.2	7.3	—	5.0/0.5	5.0/2.5	2.5/0.50	2.5/0.25	—	—
15	5.0	2.5	1.2	—	—	5.0/0.5	5.0/2.5	2.5/0.50	2.5/0.25	—	—
20	4.2	2.1	1.0	—	—	4.2/0.42	4.2/2.1	2.1/0.42	2.1/0.21	—	—
30	2.8	1.4	—	—	—	2.8/0.28	2.8/1.4	1.4/0.28	1.4/0.14	—	—

NOTE : 1: \* Indicates two-step operation.

## ■ Specifications Table

		(Unit: m/min)									
Rated load (t)	Standard speed	Low-speed hoisting		High-speed hoisting		* Dual-speed hoisting					
		Half (1/2 speed)	Creep (1/4 speed)	Fast (x1.5 speed)	Fast (x2 speed)	Standard / 1/10 speed (10 : 1)	Standard / 1/2 speed (2 : 1)	Half / 1/10 speed (5 : 1)	Half / 1/20 speed (10 : 1)	Standard x1.5 / 0.75 speed (2 : 1)	Standard x2 / standard speed (2 : 1)
1/2	13	6.5	—	—	—	13/1.3	13/6.5	6.5/1.3	6.5/0.65	—	—
1	13	6.5	3.3	20	26.5	13/1.3	13/6.5	6.5/1.3	6.5/0.65	20/10	26.5/13.2
2	10	5.0	2.5	13	18	10/1.0	10/5.0	5.0/1.0	5.0/0.50	13/6.5	18/9.0
3	9.0	4.5	2.3	13	18	9/0.90	9/4.5	4.5/0.9	4.5/0.45	13/6.5	18/9.0
5	8.0	4.0	2.0	—	12	8/0.80	8/0.40	4.0/0.80	4.0/0.40	—	12/6.0
7.5	7.2	3.6	1.8	—	12	7.2/0.72	7.2/3.6	3.6/0.72	3.6/0.36	—	—
10	6.0	3.0	1.5	8.8	—	6.0/0.60	6.0/3.0	3.0/0.60	3.0/0.30	—	—
15	6.0	3.0	1.5	—	—	6.0/0.60	6.0/3.0	3.0/0.60	3.0/0.30	—	—
20	5.0	2.5	1.2	—	—	5.0/0.50	5.0/2.5	2.5/0.50	2.5/0.25	—	—
30	3.3	1.7	—	—	—	3.3/0.33	3.3/1.7	1.7/0.33	1.7/0.17	—	—

NOTE : 1: \* Indicates two-step operation.

# Special Traverse Speed Type Hoist

## ■ Specifications Table

		(Unit: m/min)									
Rated load (t)	Standard speed	Low-speed traversing		High-speed traversing	* Dual-speed traversing						
		Slow	Creep (1/4 speed)		Standard / 1/4 speed (4 : 1)	Standard / half speed (2 : 1)	Standard x2 / standard speed (2 : 1)				
1/2	21	10.5	5.0	—	21/5.0	21/10.5	42/21				
1	21	10.5	5.0	—	21/5.0	21/10.5	42/21				
2	21	10.5	5.0	—	21/5.0	21/10.5	42/21				
3	21	10.5	5.0	—	21/5.0	21/10.5	42/21				
5	21	10.5	5.0	—	21/5.0	21/10.5	42/21				
*7.5	14	10.5 7.0	3.5	21	14/3.5	21/10.5 14/7	—				
*10	14	10.5 7.0	3.5	21	14/3.5	21/10.5 14/7	—				
15	14	7.0	3.5	—	14/3.5	14/7.0	—				
20	14	7.0	3.5	—	14/3.5	14/7.0	—				
*30	14	7.0	3.5	—	14/3.5	14/7.0	—				

NOTE : 1: \* 7.5, 10 (tons): The upper stage is of the standard type, and the lower stage is of the double rail type.

2: \*30 (tons): Available only for the double rail type.

## ■ Specifications Table

		(Unit: m/min)									
Rated load (t)	Standard speed	Low-speed traversing		High-speed traversing	* Dual-speed traversing						
		Slow	Creep (1/4 speed)		Standard / 1/4 speed (4 : 1)	Standard / half speed (2 : 1)	Standard x2 / standard speed (2 : 1)				
1/2	25	12.5	6.0	—	25/6.0	25/12.5	50/25				
1	25	12.5	6.0	—	25/6.0	25/12.5	50/25				
2	25	12.5	6.0	—	25/6.0	25/12.5	50/25				
3	25	12.5	6.0	—	25/6.0	25/12.5	50/25				
5	25	12.5	6.0</td								

# Special Specifications Hoist

## ● Explosion-proof Type Hoist

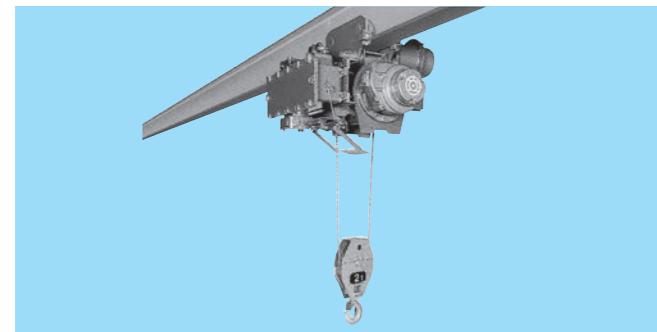
The hoist is designed to have a specific structure available for use where there is a danger of gas explosion.

### ■ Specifications

Standard	Type	Rated load (t)	Lift (m)
Ignition group: G4 Explosion proof: 2	Standard	1,2,3,5	6,12,24,36 (1~3t) 8,12,24,36 (5t)
	Low head	1,2,3,5	6,12
	Double rail	2,3,5	12 (2t) 6,12 (3t) 8,12 (5t)

NOTE : The explosion-proof specifications are also available for rated loads of 1/2, 2.8, 7.5 and 10 (tons) upon request.

For more details, see the Hitachi Explosion-Proof Type Hoists catalogue.

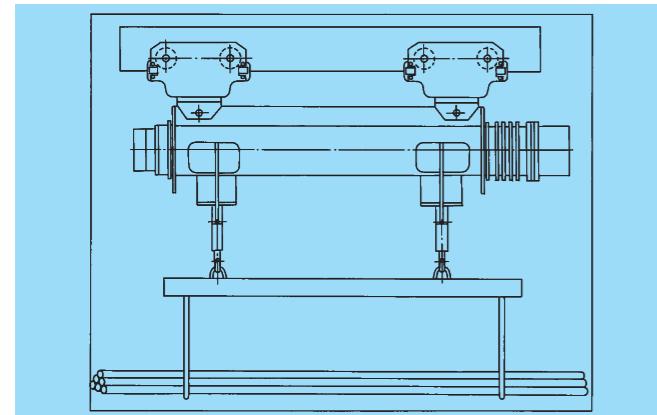


## ● Multi Hook Type Hoist

The hoist has two or four hooks suitable for lifting bars, plates, automobile bodies, and furniture which has a large volume compared with its weight, and which may swing or slant during hoisting.

### ■ Twin Hook Type Hoist

Rated load (t)	Lift (m)	Hooking pitch (m)
1~5	6	0.8~1.0

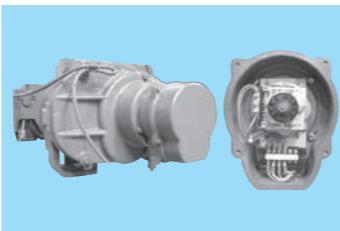


### ■ Four Hook Type Hoist

One-drum types, which contain four separate wire ropes, and two-drum types are available (special order products).

## ● Hoist with Upper and Lower Limit Switches

Hoists with upper and lower limit switches (UDS-V<sub>5</sub>) are suitable for repeated operation with specified upper and lower load block stop positions.



NOTE : The limit switches alone cannot be ordered. They are to be mounted on the body of the hoist. Unless otherwise specified, the upper limit is adjusted to 150mm below the operating point of the upper limit switch, and the lower limit is adjusted on site according to the lifting requirement.

### ■ UDS-V<sub>5</sub> Specifications

Contact structure	(Ia, Ib) × 2
Contact capacity	250V, 4A
Upper limit position	Within the lifting distance under the limit lever
Lower limit position	Within the lifting distance from two additional windings of the drum

### ■ UDS-V<sub>5</sub> Operation

The VDS-V<sub>5</sub> takes the revolution of the lifting motor taken out from the end bracket in the gear case, and feeds it to the reduction gear inside the UDS-V<sub>5</sub>, which turns the cam in order to open and close the limit switch.

## ● Hoist with Load Limiter

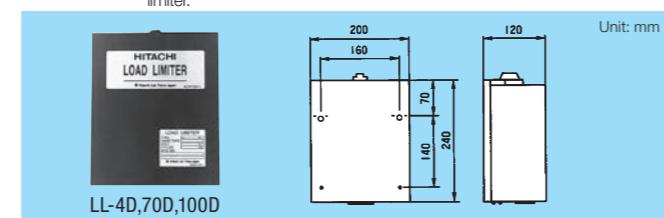
The hoist is equipped with an overload prevention device, which detects the lifting motor current and stops lifting when the load is too heavy. It is suitable for preventing dangerous work.

### ■ Specification Table

Type	D type load limiter		
Specifications	LL-4D	LL-70D	LL-100D
Applicable models	200V class	—	A-series 1~3t V-series 1/2~10t Over 15t
	400V class	A-series 1t V-series 1/2t	—
Electric source	200V 50/60Hz, 220V 60Hz		
Voltage fluctuation	Rated voltage ±10%		
Ambient temperature	-10°C~40°C (without freeze)		
Approx. weight	3.5kg		
Other	Reset: Return to down position / Time: 0.3 sec or less		

Notes on use

- A dustproof case or anti-corrosion enclosure is required when the hoist is used in a dusty place (e.g. foundry) or a place where corrosive gases are present (e.g. a plating factory) or a factory adjacent to the seaside). If this is the case, please make a separate inquiry.
- Avoid rain when using the hoist in the open air.
- The 400V class power source can be used for the hoist motor, but needs to be adjusted to the voltages specified for use in the above table, for example, a transformer for the supply to the operation circuits and the load limiter.



# End Carriage

Fully applying Hitachi's modern mechanical engineering technology, Hitachi End Carriage are designed to withstand full load under severe operating conditions. Excelling in performance, reliability, and durability, Hitachi End Carriage will definitely improve your crane's mobility, thus contributing to rationalizing your loading / unloading operations.

These three types of Hitachi End Carriage are available :

### 1. Toprun type

This on-rail-type End Carriage with a wide application range is extensively used for hoist cranes.

### 2. Suspension type

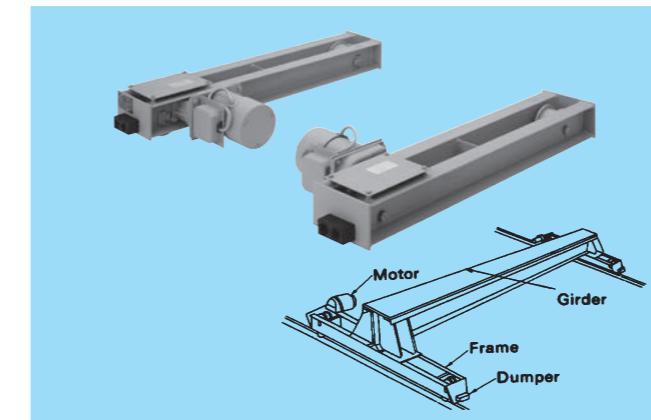
The suspension type End Carriage can be placed under existing roof beams.

Adopting a shaped-steel frame, the suspension-type End Carriage is used in combination with the standard rope hoist or the electric chain hoist.

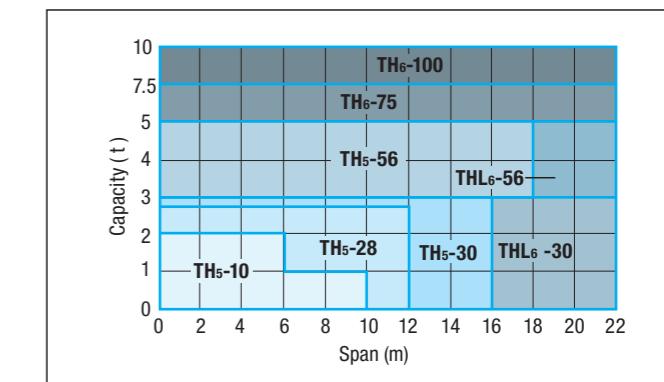
### 3. Wheel unit for toprun-type End Carriage

With the driving side and the driven side of the wheel unit forming a pair, it is optionally sold for use with a crab or a traverser.

## ● Toprun Type ( Double channel structure )



### ■ Applicable Range



### ■ Specifications table

Model	TH5-10	TH5-28	TH5-30	THL6-30	TH5-56	THL6-56	THL6-75	THL6-100
Specifications	Max. wheel load (t)	1.0	2.8	3.0	3.0	5.6(4.0)*	5.6(4.0)*	7.5(5.0)*
Traveling speed (50/60 Hz) (m/min.)	21/25	21/25	21/25	21/25	21/25	21/25	21/25	21/25
Motor (with brake) (50/60 Hz) (kW)	0.30/ 0.36 x2	0.30/ 0.36 x2	0.30/ 0.36 x2	0.30/ 0.36 x2	0.70/ 0.84 x2	0.70/ 0.84 x2	0.70/ 0.84 x2	1.5/ 1.8 x2
Rating	25% ED 250 Starts/h							
Wheel Dia. (mm)	125	180	180	180	250	250	300	355
Wheel tread width (mm)	56	63	63	63	70	70	80	80
Traveling rail (kg)	12,15	15,22	15,22	15,22	22,30	22,30	30,37	30,37
Approx. weight (kg)	70×2	110×2	175×2	200×2	250×2	305×2	435×2	650×2
Electric source (3 phase)	200V 50/60Hz, 220V 60Hz, 380~400V 50Hz, 415V 50Hz, 440~460V 60Hz							

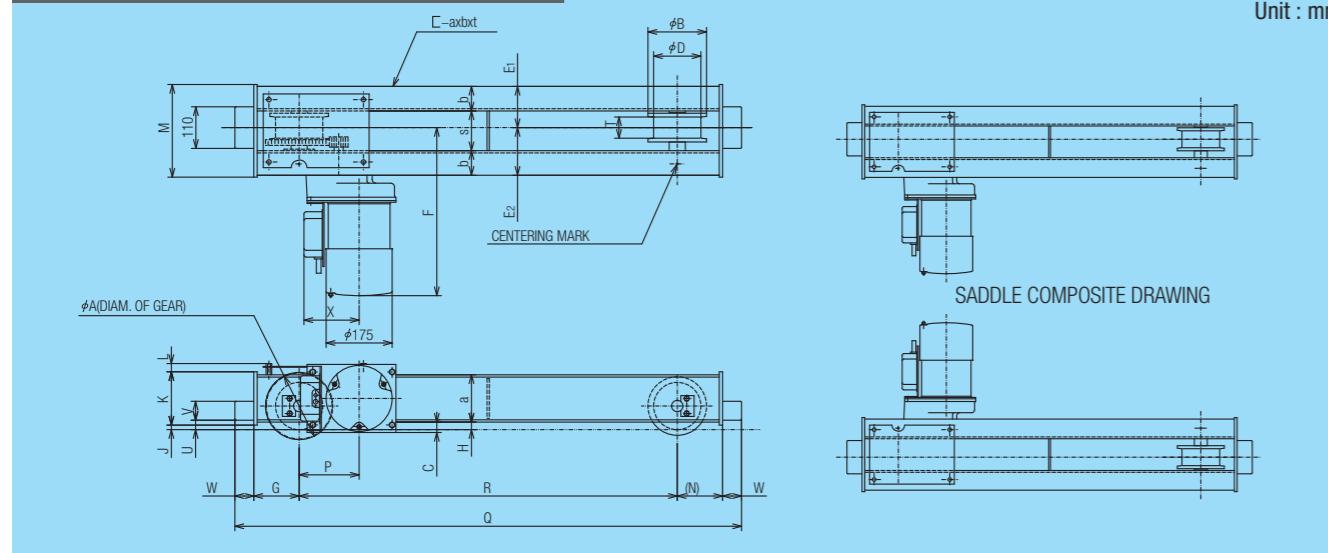
\*Figure shown in ( ) is applied for a monorail girder.

### ■ Table of Dimensions

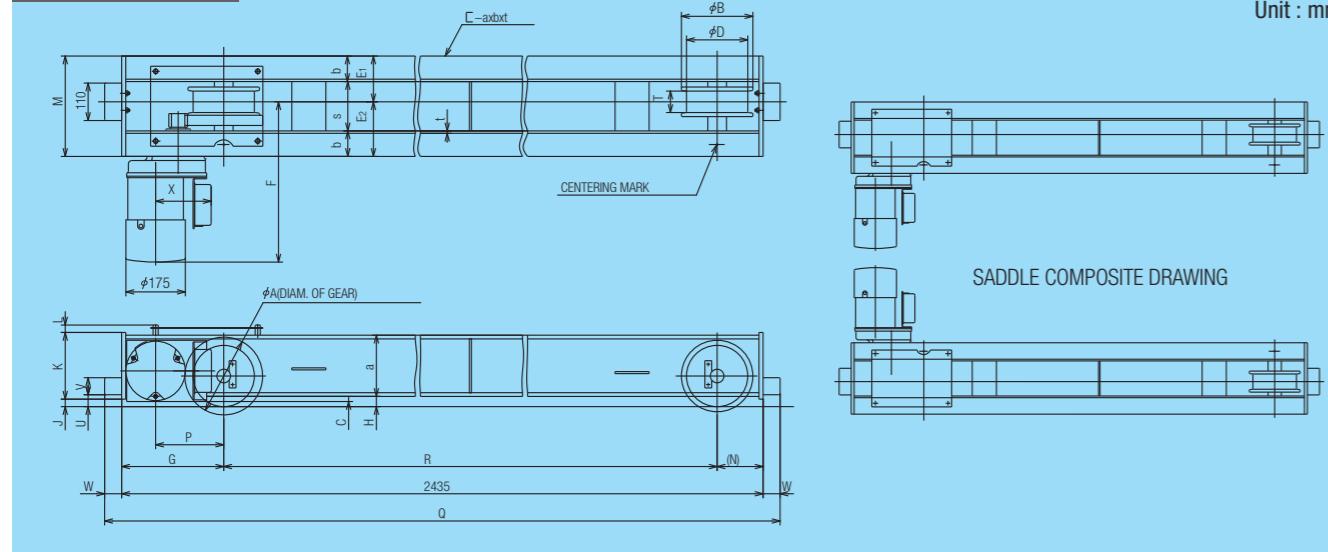
Model	TH5-10	TH5-28	TH5-30	THL6-30	TH5-56	THL6-56	THL6-75	
Frame size(mm)	125×65×6	150×75×6.5	180×75×7	180×75×7	200×80×7	200×90×8	250×90×9	
Approx. dimensions (mm)	φA 178 φB 155 C 27.5 φD 125 E <sub>1</sub> 109 E <sub>2</sub> 126 F 447 G 120 H 20 J 12 K 141 L 22	229 210 20 180 135 160 473 300 30 19 196 22 169 34	229 210 15 180 135 160 473 350 30 22 196 20 220 23	299.6 282 5 250 145 177 515 350 40 30 220 220 47	300 282 — 250 155 187 516 214 40 30 220 220 41	359 340 — 300 164 196 460 236 40 30 270 270 55	295 135 201 2,535 2,000 2,650 145 63 50 50 70 165	322 175 235 3,229 2,300 2,700 162 70 60 60 70 165
Model	TH5-10	TH5-28	TH5-30	THL6-30	TH5-56	THL6-56	THL6-75	
Frame size(mm)	M 245	311	295	295	322	342	360	
Approx. dimensions (mm)	N 120	150	135	135	175	210	210	
Model	P 158.6	201	201	201	235	234	263	

# End Carriage

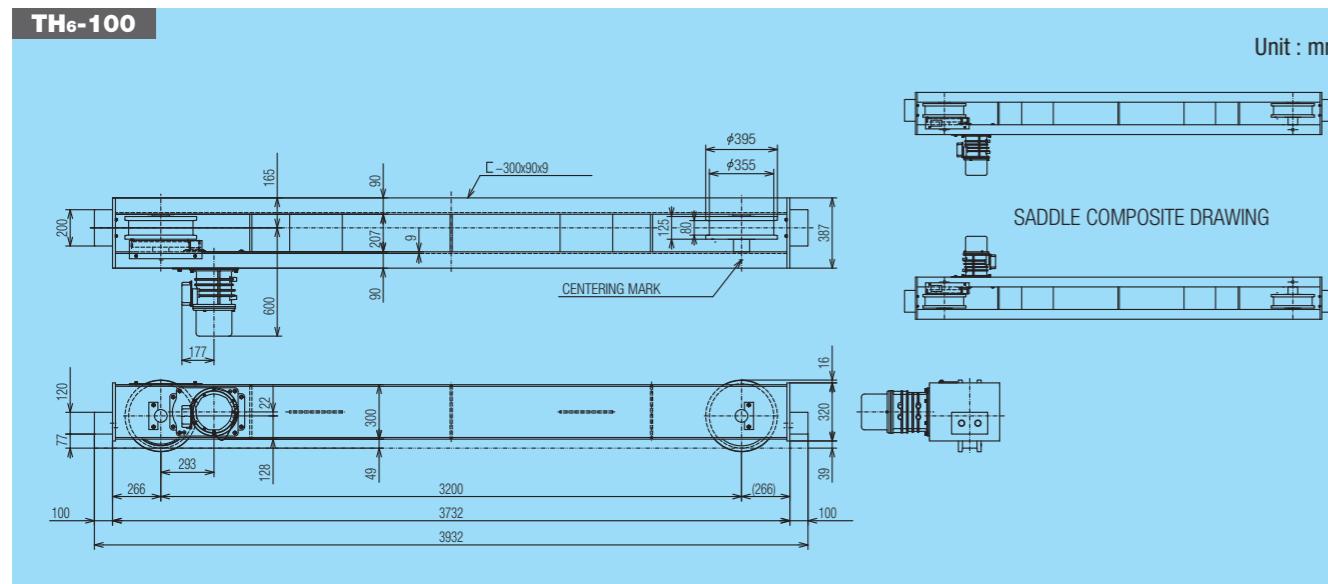
TH5-10/TH5-28/THL6-30/THL6-56/TH6-75



TH5-30/TH5-56

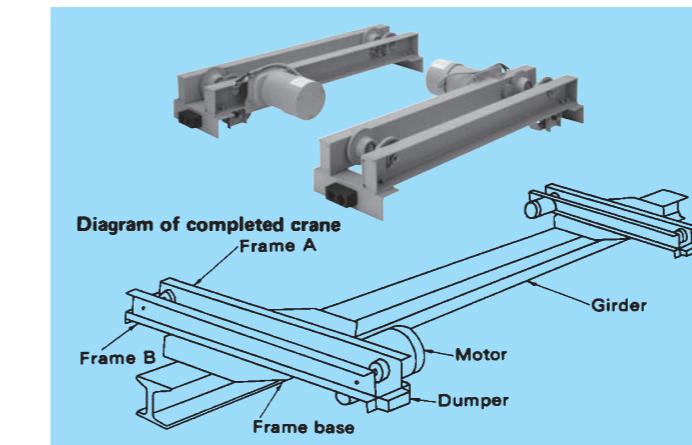


TH6-100

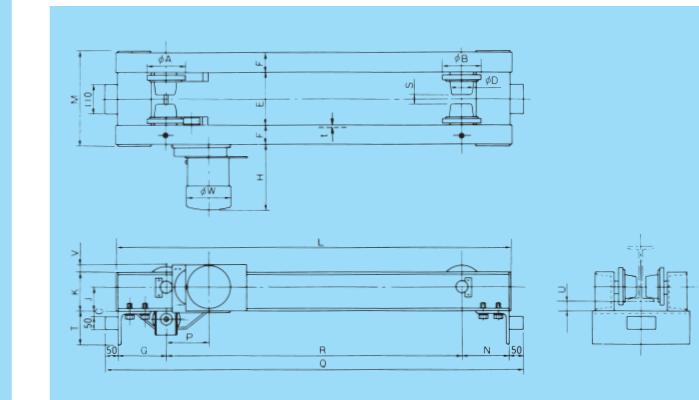


# End Carriage

## ● Suspension Type



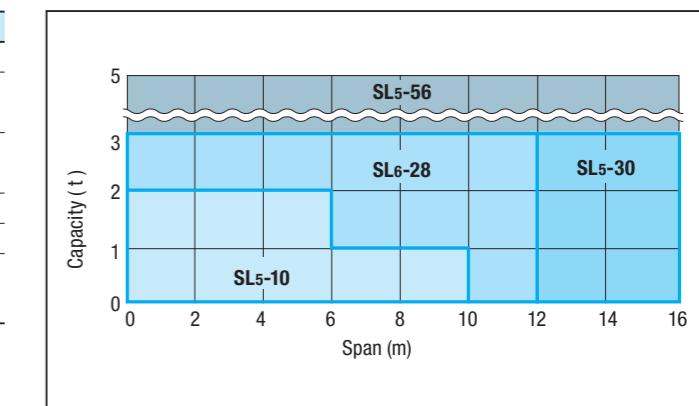
## ■ Dimensions



## ■ Specifications

Model	SL5-10	SL6-28	SL5-30	SL5-56
Max. wheel load (t)	1.0	2.8	3.0	5.6
Traveling speed (50/60Hz)(m/min.)		21/25		
Motor (with brake) (50/60Hz)(kW)	0.30/0.36×2		0.70/0.84×2	
Rating	25% ED 250 Starts/h			
Approx. weight (kg)	70×2	105×2	140×2	224×2
Electric source (3 phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz			

## ■ Applicable Range



## ■ Table of Dimensions

Model	SL5-10	SL6-28	SL5-30	SL5-56					
Frame size ( mm )	125×65×6	150×75×6.5	180×75×7	250×90×9					
φA	144	163	163	222.3					
φB	144	163	163	222.3					
C	15	20	20	20					
φD	76	100	100	140					
F	65	75	75	90					
G	147	158	158	158					
H	294	294	294	309					
J	73	85	90	120					
K	125	150	180	250					
L	1,300	1,720	2,320	2,320					
M	350	397	397	422(397)					
N	147	158	158	158					
P	153.4	158.3	158	188.4					
Q	1,394	1,816	2,416	2,416					
R	1,000	1,400	2,000	2,000					
T	90	100	100	100					
V	36	31	10	—					
φW	175	175	175	175					
Dimensions ( mm )									
I-Beam ( mm )	E	S	U	E	S	U	E	S	U
200×100×7	158	37	25						
250×125×7.5	183	62	22	193	49	23	192	49	28
300×150×11.5	208	87	13	217	74	15	217	74	20
450×175×11				243	99	18	242	99	23
				242	92	33			

Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

# End Carriage with Creep Speed

- Electric source / 200V 50/60Hz, 220V 60Hz, 380–400V 50Hz, 415V 50Hz, 440–460V 60Hz
- Rating / 30 min (based on JIS C9620)
- Starting frequency and duty factor / 250 starts/h, 25% ED
- Protective structure / Dustproof type, indoor specifications

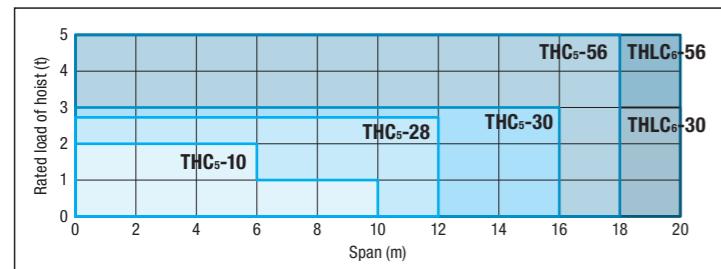
## Standard Specification Table

Model	Top run type						Suspension type			
	TH type			SL type			SLC <sub>5</sub> -10	SLC <sub>5</sub> -28	SLC <sub>5</sub> -30	SLC <sub>5</sub> -56
Type	THC <sub>5</sub> -10	THC <sub>5</sub> -28	THC <sub>5</sub> -30	THLC <sub>5</sub> -30	THC <sub>5</sub> -56	THLC <sub>5</sub> -56	SLC <sub>5</sub> -10	SLC <sub>5</sub> -28	SLC <sub>5</sub> -30	SLC <sub>5</sub> -56
Max. wheel load (t)	1	2.8	3		5.6*(4)		1	2.8	3	5.6
Max. span (m)	10	12	16	20	18	20	10	12	16	16
Travelling speed (m/min)	50Hz	21/5					21/5			
Standard / creep	60Hz	25/6					25/6			
Motor	kW	50Hz	0.30/0.08×2		0.70/0.18×2		0.30/0.08×2		0.70/0.18×2	
	Standard / creep	60Hz	0.36/0.09×2		0.84/0.21×2		0.36/0.09×2		0.84/0.21×2	
No. of poles, standard / creep			2/8		2/8		2/8		2/8	
Rating		25% ED, 250 starts/h					25% ED, 250 starts/h			
Wheel diameter (mm)		φ125	φ180	φ250	φ76	φ100	φ125	φ180	φ250	φ140
Wheel material		FCD heat treatment					S45C heat treatment			
Applicable rail		12, 15kg	15, 22kg	22, 30kg	200×100×7 250×125×7.5 300×150×11.5	200×100×7 250×125×7.5 300×150×11.5 450×175×11	300×150×11.5 450×175×11			
Approx. weight (kg)	80×2	120×2	185×2	200×2	260×2	320×2	80×2	115×2	150×2	224×2

NOTES : 1 : Only anti-corrosion coating is applied on the body.  
2 : THC<sub>5</sub>-56, THLC<sub>5</sub>-56 and THMC<sub>5</sub>-45 are for the double rail hoist.  
3 : (4) indicates the maximum wheel load for the monorail girder.

## Toprun Type

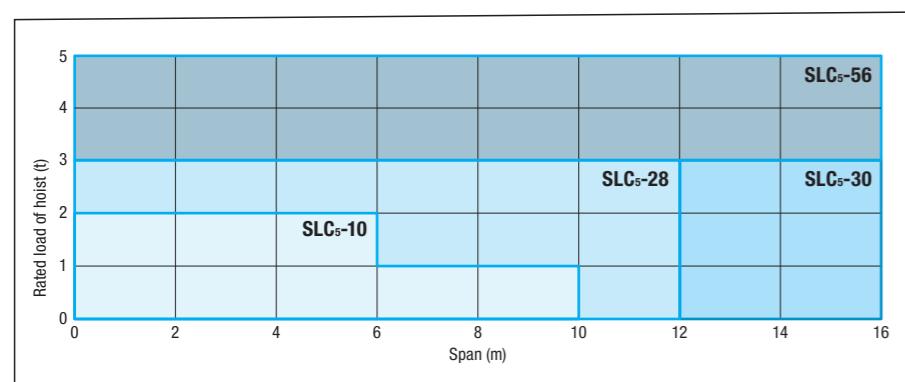
### Applicable Range



NOTE : 1. The above drawing shows an outline of the model selection.  
In practice, wheel load calculation including the girder is required.

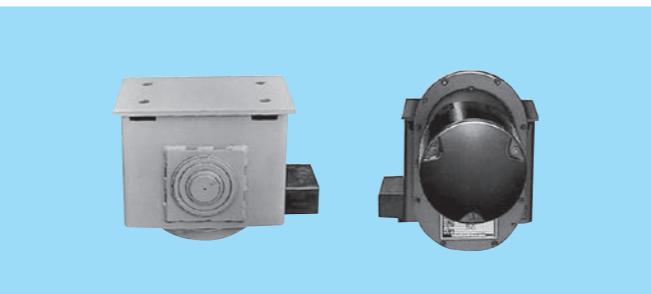
## Suspension Type

### Applicable Range

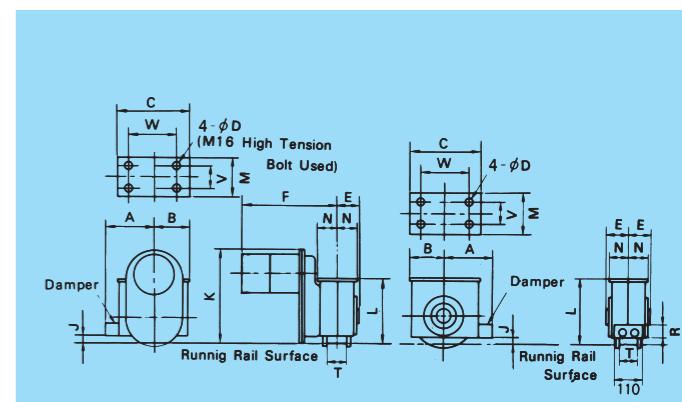


NOTE : 1. The above drawing shows an outline of the model selection.  
In practice, wheel load calculation including the girder is required.

# Wheel Unit for Toprun Type End Carriage



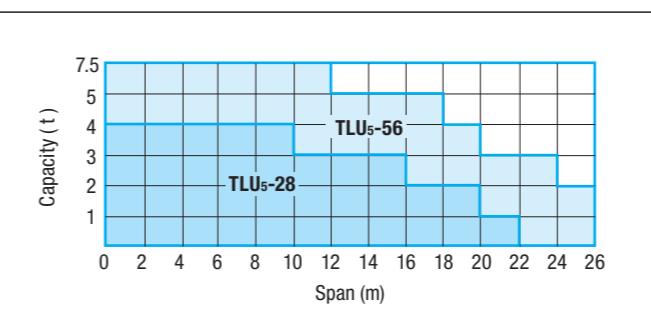
### Dimensions



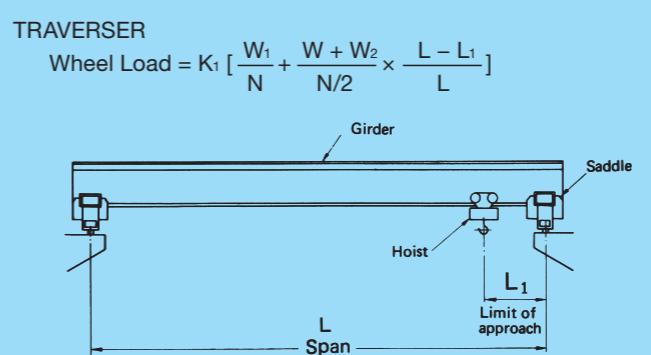
### Specifications

Model	TLU <sub>5</sub> -28	TLU <sub>5</sub> -56
Max. wheel load (t)	2.8	5.6
Traveling speed (50/60Hz)(m/min.)	21/25	21/25
Motor (with brake) (50/60Hz)(kW)	0.30/0.36	0.70/0.84
Rating	25% ED 250 Starts/h	
Electric source (3 phase)	200V 50/60Hz, 220V 60Hz, 380–400V 50Hz, 415V 50Hz, 440–460V 60Hz	
Rail (kg)	22	30

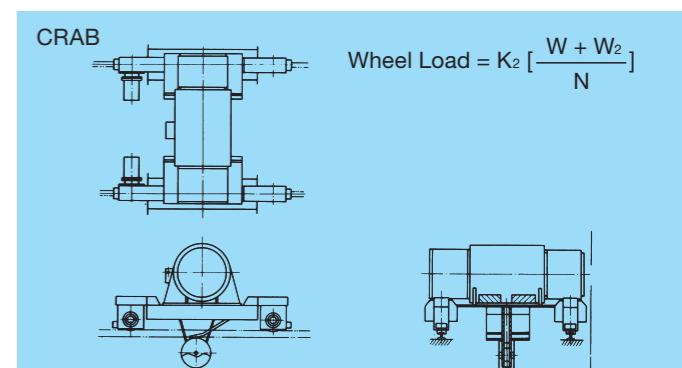
### Applicable Range



### Wheel Load Calculation for Traversers and Crabs



N : Number of Crane Wheels=4      W<sub>1</sub>: Weight of Crane ( t )  
W: Rated Load ( t )      W<sub>2</sub>: Weight of Hoist ( t )

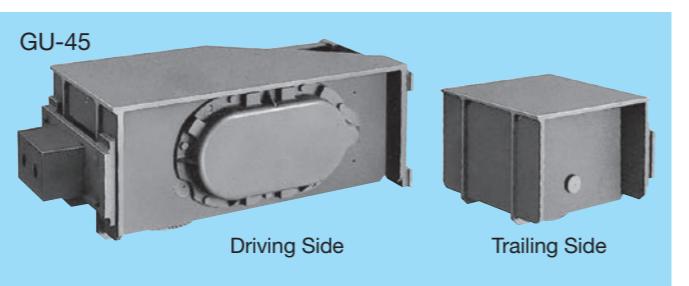


L : Span (m)      K<sub>1</sub> : Impact Coefficient (1.2)  
L<sub>1</sub> : Limit of Approach (m)      K<sub>2</sub> : Impact Coefficient (1.6)

Specifications are subject to change without notice.

# Wheel Unit for Gantry End Carriage

- The wheel unit for Hitachi's gantry End Carriage is a compact unit with integrated structure.
- It can be used not only for gantry cranes but also for traversing equipment of overhead traveling cranes.



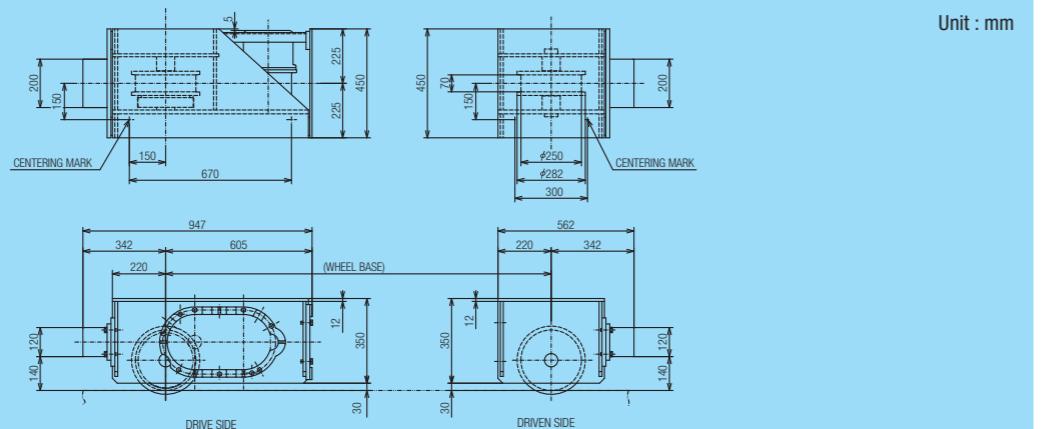
## Standard Specifications

Model	GU-45	GU-56	GU-75
Max. Wheel Load	4.5	5.6	7.5
Traveling Speed (50/60Hz)(m/min.)	25 / 30	30 / 36	
Motor (50/60Hz) (kW)	1.2/1.5 (With brake)	2.5/2.9 (With brake)	
Motor Pole Number		4	
Rating	25% ED 250 Starts / h		
Electric Source (3 phase)	200V 50/60Hz, 220V 60Hz, 380-400V 50Hz, 415V 50Hz, 440-460V 60Hz		
Brake Torque (TB/TM)	0 - 60 %		
Traveling Rail (kg)	22, 30	22, 30	30, 37
Approx Weight (kg)	340	260	360

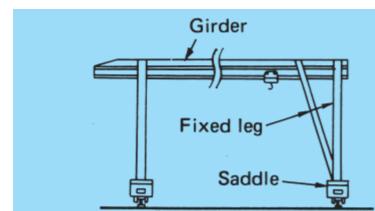
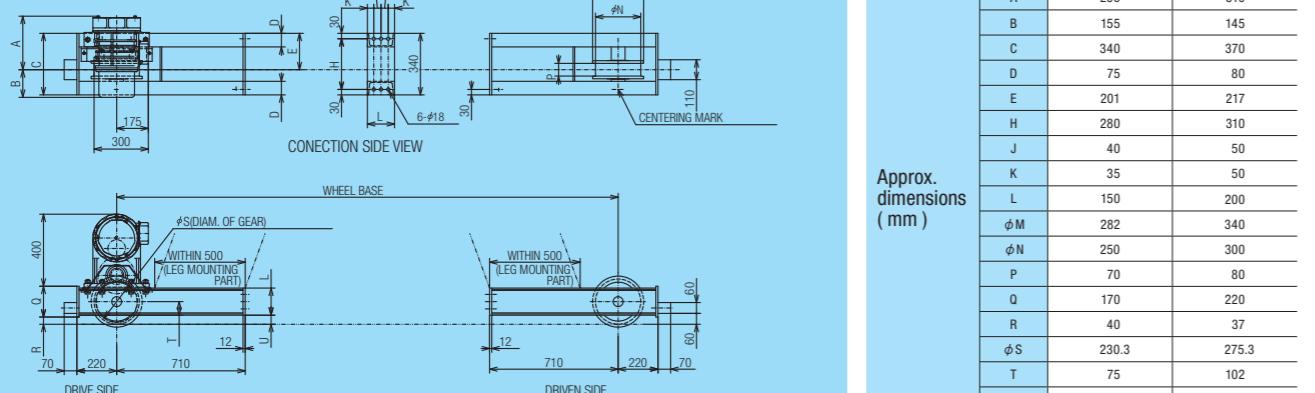
\*The coating of the main body consists of only the rust proof coating.

## Dimensions

### GU-45



### GU-56/GU-75



K<sub>1</sub> : Impact Coefficient ( 1.2 )  
W<sub>5</sub> : Weight of Fixed Leg ( t )  
W<sub>2</sub> : Weight of Hoist ( t )  
W<sub>3</sub> : Weight of Girder ( t )  
W<sub>4</sub> : Weight of End Carriage ( t )

W<sub>5</sub> : Weight of Fixed Leg ( t )  
W : Rated Load ( t )  
$$\text{Wheel Load} = K_1 \left( \frac{W_3 + W_4}{4} + \frac{W_5 + W + W_2}{2} \right)$$

## Memo

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# For Installing the Hitachi Hoist

## Size of I-Beam and Max. Allowable Span

Standard I-beam sizes are marked with ○.

Hitachi hoists are supplied, based on the I-beam size marked with ●, unless otherwise specified.

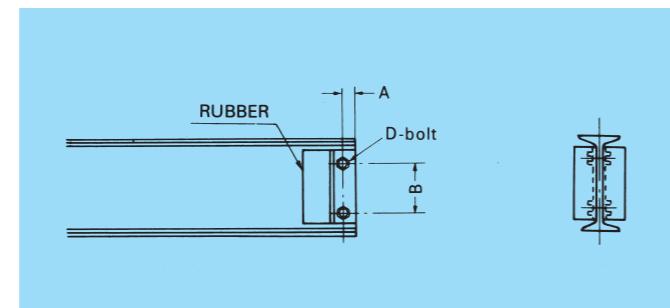
Capacity (t)	Max. allowable I-beam span (m)								
	Dimensions of I-beam employed (mm)								
	150×75×5.5	200×100×7	250×125×7.5	250×125×10	300×150×11.5	350×150×12	400×150×12.5	450×175×11	600×190×13
1/2	○3.0	●4.5	○7.0	○7.9					
1		○3.5	●5.4	○6.4	○8.6	○9.9			
2		○2.3	●4.0	○4.9	○6.9	○8.0	○8.5		
3			○2.9	○3.8	●5.6	○6.4	○7.1	○8.0	
5				●4.1	○4.9	○5.6	○6.2		
7.5							●4.5	○7.1	
10							●3.9	○6.1	
15							●3.1	○4.9	
20							●2.7	○4.3	

NOTES : 1.Values shown in above list are applied for a telpher.

2.Max. allowable I-beam span is decided by capacity of a hoist , without affected by type of a hoist or a trolley.

## Traveling Rail Stopper

This is a simple construction where two angle steels are installed on both sides of the I-beam. Rubber should be applied to the stopper surfaces to soften shocks when the hoist strikes the stopper surfaces.



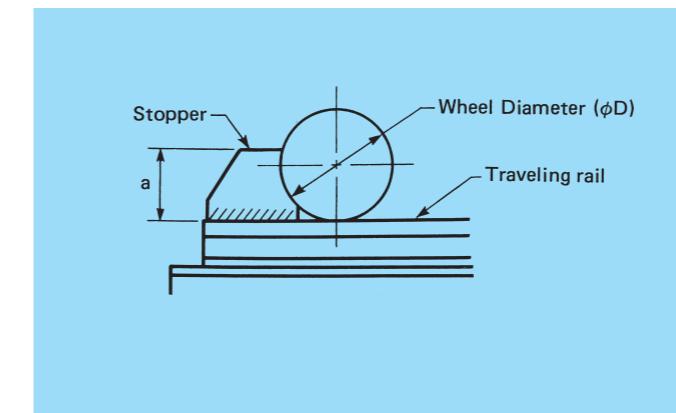
I-beam (mm)	150×75	200×100	250×125	350×150	450×175
Angle steel (mm)		50×50×6		65×65×6	
A (mm)		22		30	
B (mm)	70	105	110	190	280
D (mm)	M10	M16	M16	M20	M20

# For Installing the Hitachi Hoist

## Stopper For Double-Rail Type Hoist

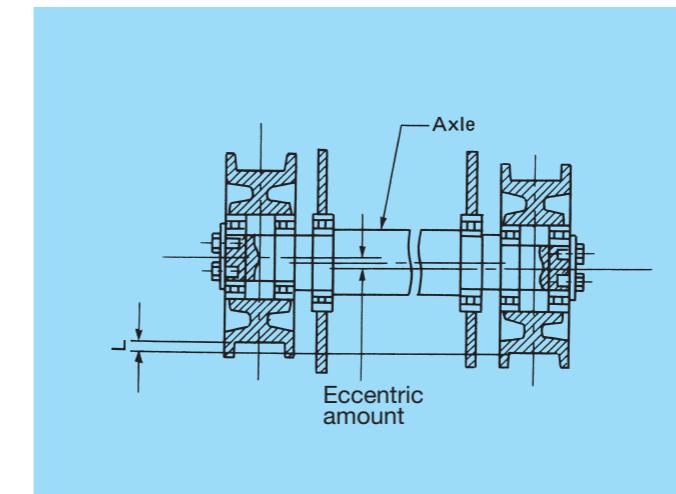
Set the stoppers on traveling rails so that both side of the wheel contacts the stoppers simultaneously.

The dimension "a" must cover more than half of the wheel diameter.



Capacity (t)	Wheel diameter (φD) (mm)	a (mm)
2,3,5	160	40
7,5,10	195	50
15,20	250	65
30	350	90

The self-adjusting center core, as shown in the figure below, is adopted on the driven side so that the four wheels correctly contact the rail. Therefore, height difference between the rails causes eccentric of the axle as illustrated below . In consideration of this eccentric amount, place the stoppers so that both side of the wheel contacts the stoppers simultaneously.



Capacity (t)	Max.L (mm)
2, 3, 5	10
7, 5, 10	15
15, 20	15
30	15

# For Installing The Hitachi Hoist

## Power cable allowable length

The power cable allowable length for the standard specification is shown in the following table.  
When extending the power cable or relay cable, make a selection after referring to the following table.

### A-series

Power Source	Capacity (t)	Permissible Length of Power Source Cable (m)						Minimum Fuse Capacity (A)	
		Nominal Sectional Area of Conductor (mm²)							
		0.75	1.25	2	3.5	5.5	8		
220V 50Hz	1	24	40	64	112	—	—	15	
	2	—	—	38	66	103	—	20	
	3	—	—	—	42	65	94	40	
380~415V 50 Hz	1	67	111	177	309	—	—	10	
	2	—	67	107	187	293	—	15	
	3	—	41	65	113	177	257	30	

### V-series (200V class)

Capacity (t)	Hoist Motor (kW)	Power Source	Permissible Length of Power Source Cable (m)													
			0.75	1.25	2	3.5	5.5	8	14	22	30	38	60	80		
1/2	1.0	200V 50Hz	28	47	76	133	209									
	1.2	200V 60Hz	13	23	37	65	102									
		220V 60Hz	28	47	75	132	207									
1	1.9	200V 50Hz	—	25	40	71	112	163	285							
	2.3	200V 60Hz	—	12	20	35	55	80	140							
		220V 60Hz	—	25	40	70	111	161	282							
2	2.9	200V 50Hz	—	—	⟨22⟩	38	59	86	151	237						
	3.5	200V 60Hz	—	—	⟨10⟩	18	28	41	72	113						
		220V 60Hz	—	—	⟨21⟩	35	55	81	142	223						
(2.8) 3	4.2(4.0)	200V 50Hz	—	—	—	⟨31⟩	48	70	123	193						
	5(4.8)	200V 60Hz	—	—	—	⟨15⟩	23	34	60	94						
		220V 60Hz	—	—	—	⟨30⟩	46	66	116	182						
5	5.9	200V 50Hz	—	—	—	—	48	84	132	180	228					
	7	200V 60Hz	—	—	—	—	23	40	63	86	109					
		220V 60Hz	—	—	—	—	46	81	127	173	219					
7.5	7.9	200V 50Hz	—	—	—	—	—	24	37	51	65	103	138			
	9.5	200V 60Hz	—	—	—	—	—	27	42	58	73	116	155			
		220V 60Hz	—	—	—	—	—	26	41	56	72	113	151			
10	8.8	200V 50Hz	—	—	—	—	—	24	37	51	65	103	138			
	10.5	200V 60Hz	—	—	—	—	—	27	42	58	73	116	155			
		220V 60Hz	—	—	—	—	—	26	41	56	72	113	151			
15	6.7×2	200V 50Hz	—	—	—	—	—	—	25	34	43	68	91	113	142	
	8×2	200V 60Hz	—	—	—	—	—	—	28.5	39	49	78	103	129	162	
		220V 60Hz	—	—	—	—	—	—	27	36	46	73	97	121	150	
20	7.5×2	200V 50Hz	—	—	—	—	—	—	—	21	28	36	56	74	173	136
	9×2	200V 60Hz	—	—	—	—	—	—	—	23	32	40	63	84	105	132
		220V 60Hz	—	—	—	—	—	—	23	31	39	62	82	102	128	

### V-series (400V class)

Capacity (t)	Hoist Motor (kW)	Power Source	Permissible Length of Power Source Cable (m)											
			0.75	1.25	2	3.5	5.5	8	14	22	30	38	60	80
1/2	1.0	380~415V 50Hz	54	90	144	252								
	1.2	400V 60Hz	26	46	74	130								
		440V 60Hz	56	94	150	264								
1	1.9	380~415V 50Hz	—	48	76	133	209							
	2.3	400V 60Hz	—	24	40	70	110							
		440V 60Hz	—	50	80	140	222							
2	2.9	380~415V 50Hz	—	—	41	72	113	165						
	3.5	400V 60Hz	—	—	36	56	82	144						
		440V 60Hz	—	—	70	110	162	284						
(2.8) 3	4.2(4.0)	380~415V 50Hz	—	—	33	58	91	132						
	5(4.8)	400V 60Hz	—	—	—	46	68	120						
		440V 60Hz	—	—	—	92	132	232						
5	5.9	380~415V 50Hz	—	—	—	40	62	91	159					
	7	400V 60Hz	—	—	—	—	31	46	80	126				
		440V 60Hz	—	—	—	63	92	162	254					
7.5	7.9	380~415V 50Hz	—	—	—	—	—	45	71	97	123			
	9.5	400V 60Hz	—	—	—	—	—	54	84	116	146			
		440V 60Hz	—	—	—	—	—	52	82	112	144			
10	8.8	380~415V 50Hz	—	—	—	—	—	45	71	97	123			
	10.5	400V 60Hz	—	—	—</td									

# Memo

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## Hitachi Industrial Equipment Systems Co., Ltd.

For further information, please contact your nearest sales representative.



Registration number: JACO-EC99J2009  
Registration date: July 22, 1996

Hitachi Industrial Equipment Systems Co., Ltd. (Taga Administrative division) obtained ISO 14001 certification, an international standard for environmental management systems.



Registration number: JQA-QMA 12087  
Registration date: April 1, 2005

Hitachi Industrial Equipment Systems Co., Ltd. (Taga Administrative division) obtained international standard ISO 9001 certification for the quality assurance of the hoist motor block contained in this brochure.