

Hitachi Hoists



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.







Litophi	HAIAT CAPIAA I	'Antanta
milai.iii	HINGI SPIIPCI	-11111111111111111111111111111111111111
IIILUUIII	Hoist Series (

	Introduction —	2
•		

		in	

Features —	4
List of Hoist Types	8

A-series

Prior to Selecting the Hoist

Standard Headroom Type Hoist	- 10
Low Headroom Type Hoiet	_ 19

V-series

Standard Headroom Type Hoist ————	 14
Low Headroom Type Hoist	20
Double-Rail Type Hoist —	22
Stationary Type Hoist —	25
Hojet with Croon Speed for Hojeting	28

Others

Ultra High Lift Type Hoist

Wheel Unit for Gantry Crane Saddle

Electrical Parts for Crane Saddle

pecial Hoisting Speed Type Hoist,	
pecial Traverse Speed Type Hoist —	36
pecial Specifications Hoist	38
rane Saddles	39
rane Saddle with Creep Speed	42
Vheel Unit for Toprun Type Saddle	43

Do not use the hoist to lift or carry humans. Hoists are designed to carry materials only.

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.

Auxiliary Brake Unit Patent No. 1364105 (6 patents) USA PAT No. 4216848 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.

Overheat alarm
Patent No. 39-886535

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.

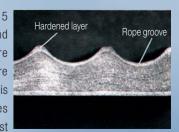
- ●Brake unit

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.

Brake Unit with Automatic Adjusting Device
Patent No. 899967 (5 patents)
USA PAT No. 3908802, Germany PAT No. 2354044

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).

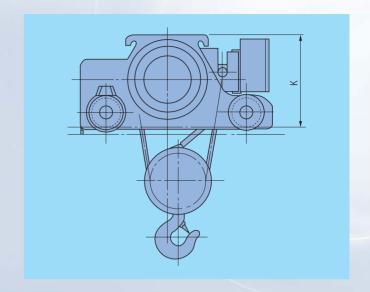


Steel plate rolling groove forming method
Patent No. 1072752

4

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. (1/2 to 3 tons for the 2-fall type: Patent No. 1475393)



Hook

Punch mark

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

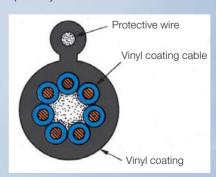


Load block fitted with a safety lever

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.

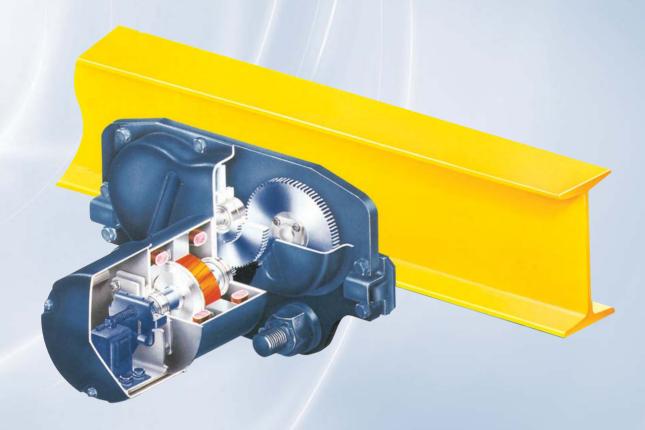




User-friendly pushbutton

The plastic push button is of a totally enclosed type.

Motorized trolley



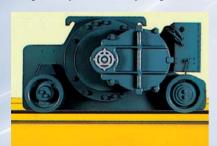
Long life wheel

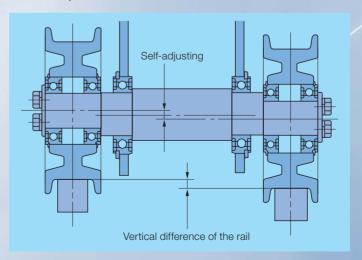
The hoist traverses by guide rollers and the flangeless wheels remarkably reduce the wear of the I-beam and wheels. The built-in brake facilitates positioning. The brake torque is adjustable.

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.





Optimum model Selectable from a Great Variety of Types

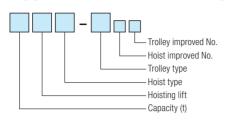
A-series			V-series	
Standard Headroom Low Headroom		Standard Headroom	Low Headroom	Double-Rail
		1/2t 6m,12m	1/2t 6m	
1t 6m,12m	1t 6m	1t 6m,12m	1t 6m,12m	
2t 6m,12m	2t 6m	2t 6m,12m	2 t 6m,12m	2t 12m
3t 6m,12m	3t 6m	3t 6m,12m	3t 6m,12m	3t 6m,12m
		5t 8m,12m	5t 6m	5t 8m,12m
		7.5t 8m,12m		7.5t 8m,12m
		10t 8m,12m		10t 8m,12m
		15t 8m,12m		15t 8m,12m
		20t 12m		20t
				30t 12m

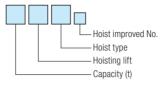
Specially designed hoists

- Stationary
- Hoist with creep speed for hoisting
- Ultra high lift type hoist
- Pair hoist
- Special hoisting speed type hoist
- Special traversing speed type hoist
- Explosionproof type hoist based on JIS
- Multi hook type hoist
- Hoist with upper / lower limit switches
- Hoist with load limiter

Prior to Selecting Hoist

Explanation of Hitachi hoist For hoist only types for hoist with trolley





Capacity	Hoisting lift Low lift High lift		Hoist type	Trolley type	
Gapacity			noist type		
Rated load	No	Н	V-series	Manual driven	
indicated	mark		Standard headroom	trolley····P	
by tons			type·····M	Chain driven	
			Low headroom	trolley·····C	
			type·····L	Motorized	
			Double rail type · · · D	trolley·····T	
			A-series		
			Standard headroom		
			type·····AM		
			Low headroom		
			type·····AL		

Example

V-series, 2t, high-lift, standard headroom type hoist with motorized trolley



Standard specifications

Specifications

- Control Voltage 200V for V-series, 24V for A-series
- Operating method Push-button operation using a control panel on the floor
- Rating 30 minutes (to JIS C9620, Japanese Industrial Standard)

Standard push-buttons

Туре	No. of push buttons	Indication
Without Motorized Trolley	2	\bigcirc
With Motorized Trolley Except 5t Double Rail Type (up to 5t)	6	$\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$
With Motorized Trolley Incude 5t Double Rail Type (7.5t and up)	8	$\boxed{ \texttt{ON} \texttt{OFF}} \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$

Power feed system

Туре	Power feed system
Suspension-type with chain-driven trolley	Cable
With motorized trolley	Cable

^{*} No cable is provided in the cable power feed system.

Series Selection

When selecting an electric chain hoist, the operating environment, operating time, and operating frequency must be taken into consideration.

Operating time and load ratio

Use within the range of section.

Load Condition	Load Ratio	Mean operating hour per day (h)					
	Luau nauu	~1	16~				
Light	K≦0.5	V-series — 40% ED (40%ED) 400 Stars/h (250 A-series — 25% ED 250 Stars/h)			
Medium	0.5 <k≦0.63< th=""><th></th><th></th><th></th><th></th></k≦0.63<>						
Heavy	0.63 <k≤0.8< th=""><th></th><th></th><th></th><th></th></k≤0.8<>						
Severe	0.8 <k< th=""><th></th><th></th><th></th><th></th></k<>						

: This is normally used at a load of 1/2 the rated load, and on rare occasions at the rated load. Medium: This is normally used at a load of 1/2 to 2/3 the rated load, and occasionally at the rated load.

: This is normally used at loads above 2/3 the rated load, and often at the rated load.

Severe : This is mostly used at the rated load or close to this load.

* If use is expected to exceed the above range, then an electric chain hoist with a higher capacity must be selected, so please consult with HITACHI

** Rating in parenthesis is for 15t and above.

Operating environment

- Use in locations with an ambient temperature of −10°C to 40°C (with no freezing) and humidity of 90% or less (no condensation).
- Protective construction IP44
- Applicable standards

JIS C9620 (Electic Hoist) and crane construction standards

• The main body and the trolley for a hoist with a chain-driven trolley are delivered separately.

> n : Inching count (times) per lifting or lowering operation. N : Transport count (times) within 1 hour

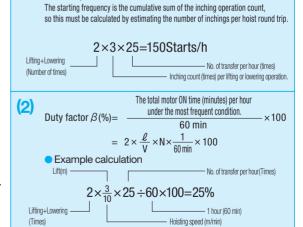
Lift(m) V: Hoisting speed(m/min) t₁, t₂, t₃ · · · · · : Ratio of the operating time of each load to the total operating time P₁, P₂, P₃ · · · · : Each load ratio (ratio of the load to each rated load) In addition to the general specifications, (1) starting frequency, (2) duty factor, and (3) load ratio must be taken into consideration.

Max. starting frequency α (Starts/h)=2×n×N

Example calculation

Calculation method

(If the calculated value exceeds the standard specification, then it is a dedicated specification.)



Load ratio K= $\sqrt[3]{P_1^3 t_1 + P_2^3 t_2 + P_3^3 t_3 + \cdots}$

Example calculation

When a 0.4t load is suspended on a 1-ton rated load rope hoist for a one-way trip, with a no-load return trip. (The lifting sling is 0.3t).

$K=\sqrt[3]{(0.3+0.4)^3}\times0.5+0.3^3\times0.5=0.57$

In this case, the load condition is comparable to "medium" and the average operating time per day is 8 hours or less. If used for a longer time than this, an electric chain hoist with a higher capacity must be selected.

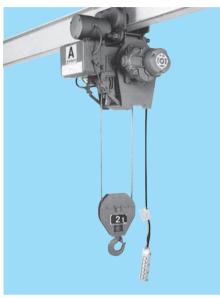
A-series HOIST with Motorized Trolley

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

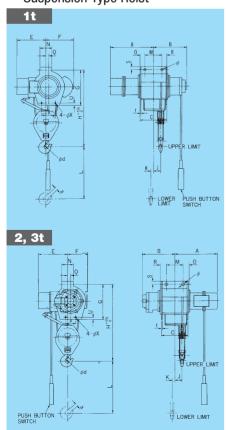


Specifications

Capacity (t)				1	2	3
Hoisting lift (m)					6 and 12	
	Cnood	(m/min)	50Hz	7	6	5
	Speeu	(111/111111)	60Hz	8.4	7	6
Hoisting		(kW)	50Hz	1.2	2.1	2.6
	Motor	(KVV)	60Hz	1.5	2.4	3.1
		No. of	poles		4	
	Cnood	(m/min)	50Hz		21	
	Speeu	(111/111111)	60Hz		25	
Traversing		(14141)	50Hz	0.30	0.30	0.45
	Motor	(kW)	60Hz	0.36	0.36	0.55
		No. of	poles		4	
	١	lo. of fall	ls		2	
Wire rope	Co	ompositi	on		6×Fi (29)-B	
	D	iam. (mr	n)	<i>φ</i> 8	φ 11.2	<i>φ</i> 14
Rating					25% ED 250 Starts/h	
Operating metho	d			Floor-c	ontrolled Pushbutton or	peration
Electric source (3	3 phase)			200V 50/60Hz,220V 60	Hz,380-400V 50Hz,415	V 50Hz,440-460V 60Hz
Control voltage (V)				24 — 27	

Dimensions

Suspension Type Hoist



Model		1AM ₆	1HAM ₆	2AM ₇	2HAM ₇	3AM ₆	3HAM ₆
Capacity (t)		1		2	2	3	3
	L	6,000	12,000	6,000	12,000	6,000	12,000
	Н	7	10	9.	10	1,0	50
	Α	480	650	545	580	565	605
	В	350	385	435	615	460	640
	M	20	00	20	00	20	00
	φ	2	6	3	6	3	6
	N	13	39	13	39	16	64
	Е	34	1 5	40	00	46	60
	F	25	55	22	20	24	15
	<i>φ</i> d	4	5	5	6	7	1
Approx.	a	2	3	3	6	4	2
dimensions	J	85	115	75	100	80	110
(mm)	K	20	90	30	110	35	120
	0	47	217	56	91	65	106
	R	47	80	58	237	79	262
	Q	32	2.5	35	5.5	41	.5
	S	35	40	3	5	3	5
	С	294	497	314	528	344	568
	t	(9	(9	(9
	G	39	90	50	00	55	55
	Р	12	20	12	20	18	30
	U	2	8	2	8	3	5
	φX	1	0	1	0	1	4
Approx. weight (kg)	115	125	190	210	230	255
Push-button indication				\bigcirc	\bigcirc		

Standard Headroom Type Hoist

Dimensions Standard-Headroom Type with Motorized Trolley

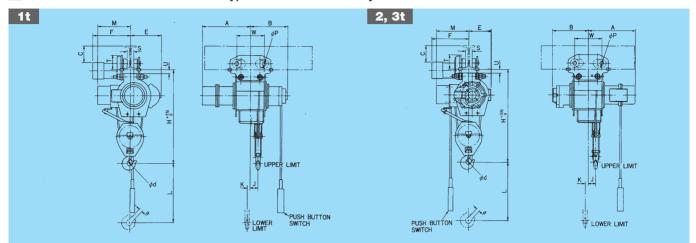


Table of Dimensions

Model		1/	AM-T ₆₅		1HAM-	-T ₆₅	2	AM-T ₇₅		2HAM-	-T ₇₅	3	AM-T ₆₅		3HAM-	-T ₆₅
Hoist type		1	IAM ₆		1HAN	16	2	2AM7		2HAN	1 7	:	ЗАМ6		3HAN	16
Trolley type			1T ₅		1T ₅			2T ₅		2T 5			3T ₅		3 T ₅	
Capacity (t)				1					2					3		
	L	6	5,000		12,00	0	6	5,000		12,00	0	(6,000		12,00	0
	Н			790					985					1,115		
	Α		480		650			545		580			565		605	
	В		350		385			435		615			460		640	
	M			345					400					460		
Approx. dimensions (mm)	W			200/290)				200/29	0				230/310		
Approx. dimensions (mm)	K		20		90			30		110			35		120	
	J		85		115			75		100			80		110	
	Е			255					220					245		
	<i>∲</i> d			45					56					71		
	<i>φ</i> p			96					96					128		
	a			23					36					42		
Min. curve Radius (m)				1.5					1.8					2.0		
Dimensions I- Beam	(mm)	F	S	Т	U	С	F	S	Т	U	С	F	S	Т	U	С
200×100×7		374	42	148	47 (42)	135	378	42	148	42	135					
250×125×7.5		387	67	151	44 (39)	185	391	67	151	39	185	417	52	177	38	180
300×150×11.5		400	92	160	35 (30)	225	404	92	160	30	225	430	77	187	28	220
450×175×11												443	102	185	30	370
Approx. weight (kg)			165		175			255		275			320		345	
Push-button indication							(1		\leftarrow	\bigcirc (<u> </u>)				

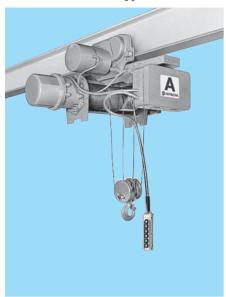
NOTES: 1.Dimensions W are for the drive side/driven side.

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

3.() dimensions represent dimensions of 1HAM₀ (Hoist type)

Low Headroom Type Hoist

■ Low-Headroom Type Hoist



Specifications

			1	2	3
				6	
Cnood	(m /min)	50Hz	7	6	5
Speeu	(111/111111)	60Hz	8.4	7	6
	(I/M)	50Hz	1.2	2.1	2.6
Motor	(KVV)	60Hz	1.5	2.4	3.1
	No. of	poles		4	
Cnood	(m/min)	50Hz		21	
Speeu	(111/111111)	60Hz		25	
	(IAM)	50Hz	0.30	0.30	0.45
Motor	(KVV)	60Hz	0.36	0.36	0.55
	No. of	poles		4	
N	lo. of fall	ls		4	
Co	ompositi	on	6×W (19)-B	6×Fi	(29)-B
D	iam. (mr	n)	<i>ϕ</i> 6.3	<i>ф</i> 8	<i>ϕ</i> 10
				25% ED 250 Starts/h	
d			Floor-c	ontrolled Pushbutton or	peration
3 phase)			200V 50/60Hz,220V 60	Hz,380-400V 50Hz,415	V 50Hz,440-460V 60Hz
V)				24 — 27	
	Motor Speed Motor N Cc D	No. of Speed (m/min) Motor (kW) No. of fall Compositi Diam. (mr	Speed (m/min) 60Hz 50Hz 60Hz 60Hz	Speed (m/min) 50Hz 7 60Hz 8.4 8.4 50Hz 1.2 60Hz 1.5	Speed (m/min) 50Hz 7 6 6

Low Headroom Type Hoist

Dimensions

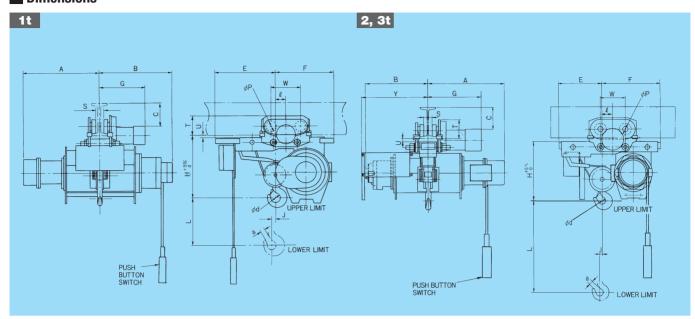


Table of Dimensions

Model				1AL-T ₅₅					2AL-T ₅₅					3AL-T ₅₅		
Hoist type				1AL ₅					2AL ₅					3AL₅		
Trolley type				1T ₅					2T ₅					3 T ₅		
Capacity (t)				1					2					3		
	L			6,000					6,000					6,000		
	Н			425					515					600		
	Α			600					655					705		
	В			475					545					585		
	W			200/290)				200/290)				230/310		
	Е			420					365					400		
Approx. dimensions (mm)	F			375					480					575		
	<i>∲</i> d			45					56					71		
	J			28					42					46		
	Υ								625					620		
	<i>φ</i> p			96					96					128		
	a			23					36					42		
	l			55					85					100		
Min. curve Radius (m)				1.5					1.8					2.0		
Dimensions I- Beam	(mm)	S	Т	U	С	G	S	Т	U	С	G	S	Т	U	С	G
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	28	180	417
300×150×11.5		92	160	40	225	400	92	163	19	225	404	77	187	18	220	430
450×175×11												102	185	20	370	443
Approx. weight (kg)				180					270					370		
Push-button indication									Θ	\bigcirc	Z) (?)				

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

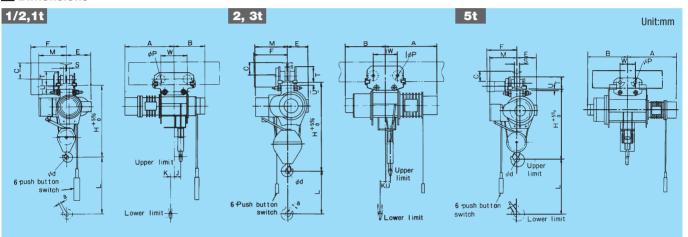
Capacity (t)				1/2	1	2	3	5	7.5	10	15	20
Hoisting lift (m)					6 ar	d 12			8 an	d 12		12
	Sp	eed	50Hz	11	11	8.4	7.5	6.7	6.0	5.0	5.0	4.2
	(m/	eed min)	60Hz	13	13	10	9	8	7.2	6.0	6.0	5.0
Hoisting		(kW)	50Hz	1.0	1.9	2.9	4.2	5.9	7.9	8.8	6.7×2	7.5×2
	Motor	(KVV)	60Hz	1.2	2.3	3.5	5	7	9.5	10.5	8×2	9×2
		No.of	poles			4				4		
	Sp	eed	50Hz			21				14		
	(m/	eed min)	60Hz			25				17		
Traversing		(kW)	50Hz	0.30	0.30	0.30	0.45	0.63	0.47×2	0.47×2	0.7×2	0.7×2
	Motor	(KVV)	60Hz	0.36	0.36	0.36	0.55	0.75	0.56×2	0.56×2	0.84×2	0.84×2
		No.of	poles			4			(6		4
	1	No.of fall	S			2				4		
Wire rope	Co	ompositi	on	6×W(19)-B				6×Fi(29)-B	i			6×Fi(29)IWRC-B
		iam.(mr	n)	φ6.3	<i>φ</i> 8	φ11.2	φ14	<i>ф</i> 12.5	<i>φ</i> 14	<i>φ</i> 16	<i>\$</i> 20	φ 22.4
Rating						40	%ED400 Start	s/h	'			50 Starts/h
Operating metho	d			F	ush-button op	peration \bigcirc	$\bigcirc \bigcirc $)	Push-button o	peration ON	0FF (1) (1)	$\Theta \Theta \varnothing \varnothing$
Electric scurce (3 phase)				200V 50/60H	Hz,220V 60Hz,3	380-400V 50H	lz,415V 50Hz,44	0-460V 60Hz		
Control voltage								200V 50/60H	·lz			

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 transporating operatings 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

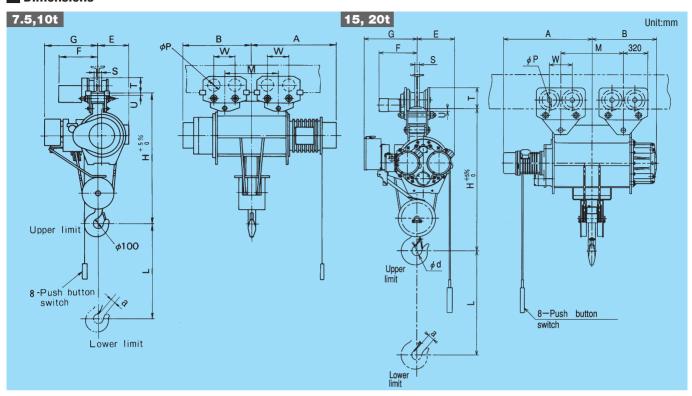
Model		1/	<mark>2M-</mark> 1	T ₆₅	1/2	HM-	T 65	1	M-Te	65	11	HM-1	65	2	M-T7	5	21	-IM-T	75	3	M-T 6	5	3H	HM-T	Г65	5	M-T ₅	i5	51	-IMI	55
Hoist type			1/2M	6	1/	/2HN	16		1M ₆			1HM	6		2M ₇		2	2HM	7		3M ₆		:	знм	6		5M5		į	5НМ:	5
Trolley type			1/2T:	5	1	1/2T:	5		1T 5			1T 5			2T ₅			2T ₅			3T ₅			3T ₅			5T ₅			5T 5	
Capacity (t)				1,	/2					1	1					2	2					3	3					Ę	5		
	L		6,000)	1	2,00	0	(6,000)	1	2,00	0		6,000)	1	2,00	0	6	5,000)	1	2,00	0	8	3,000)	1	2,00	0
	Н			74	40					79	90					98	35					1,1	15					1,1	90		
	Α		485			655			545			715			595			630			645			690			845			955	
	В		355			380			350			385			435			615			475			660			690			800	
Approx.	М			3	35					3	45					4	15					46	60					4	55		
dimensions	W			200	/290					200	/290					200	/290					230	/310					250	/330		
	K		20			100			20			90			30			110			35			120			_			_	
(mm)	J		80			105			85			115			75			100			80			110			_			_	
	<i>∲</i> d			4	10					4	15					5	6					7	1					9	0		
	<i>φ</i> p			9	96					9)6					9	16					12	28			156/	140(DF	RIVE S	IDE/DI	RIVEN	SIDE)
	a			2	21					2	23					3	16					4	2					5	8		
Min. curve radius	(m)			1.3	(5.0)					1	.5					1	.8					2	.0					3	.0		
Dimensions with respect to I-bear	n	E	F	S	Т	U	С	Е	F	S	Т	U	С	Е	F	S	Т	U	С	Е	F	S	Т	U	С	Е	F	S	Т	U	С
(150×75×5.5)		190	361	17	147	53 (43)	85																								
200×100×7		190	374	42				255	374	42	148	47 (42)	135	220	378	42	148	42	135												
250×125×7.5		190	387	67	151	49 (39)	185	255	387	67	151	(39)	185	220	391	67	151	39	185	245	417	52	177	38	180						
300×150×11.5								255	400	92	160	35 (30)	225	220	404	92	160	30	225	245	430	77	187	28	220	305	450	77	225	30	215
450×175×11																				245	443	102	185	30	370	305	463	102	223	32	365
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 smudged I-beam size.
 5. () dimensions represent dimensions of 1/2HMe and 1HMe (Hoist type)

Hoist with Motorized Trolley

Dimensions



■ Table of Dimensions

Model		7.51	1-T 55	7.5H	M-T ₅₅	10N	1-T ₅₅	10HI	M-T ₅₅	15M-T ₅₅	15H	M-T ₅₅	20HM-T ₅₅
Hoist type		7.5	Мs	7.5	НМ₅	10	M ₅	101	НМ₅	15M₅	15	HM₅	20HM₅
Trolley type		4FT	5×2	4F1	ն ×2	5FT	5×2	5F1	5×2	10AT₅×2	10/	T₅×2	10AT₅×2
Capacity (t)			7	.5			1	0			15		20
	L	8,0	000	12,	000	8,0	000	12,	000	8,000	12	,000	12,000
	Н		1,3	345			1,	515			1,865		2,010
	Α	1,0	75	1,1	50	1,0	75	1,1	50	1,060	1,	160	1,210
	В	83	30	91	05	88	35	90	60	750	8	50	900
	Е		3	15			3	55			500		500
Approx. dimensions (mm)	G		57	70			5	90			705		705
	М	56	60	70	60	6	50	78	36		820		900
	W	230/3	10(Drive s	side/Drive	n side)	230/3	30(Drive	side/Drive	n side)		300		300
	<i>φ</i> d		10	00			10	00			130		165
	<i>φ</i> p		12	28		156/1	40(Drive	side/Drive	n side)		190		190
	а		6	9			6	9			86		108
Min. curve Radius (m)			Stra	ight			Stra	ight			Straight		Straight
Dimensions with respect to I	, ,			U	F	S	Т	U	F	S	T	U	F
450×175×11		102	184	30	453	102	225	30	460	62	280	30	524
600×190×13		117	189	25	461	117	230	25	468	77	285	25	532
Approx. weight (kg)		93	30	99	90	1,2	30	1,2	290	2,340	2,	540	2,940

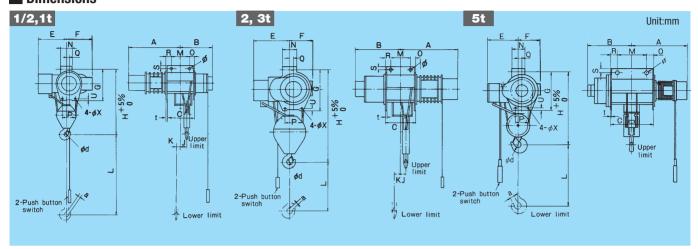
NOTE: Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size.

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.

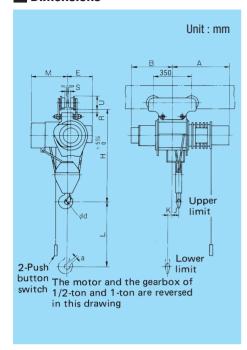
Dimensions



Model		1/2M6	1/2HM6	1M ₆	1HM ₆	2M7	2HM7	3M6	3НМ6	5M5	5HM ₅
Capacity (t)		1/	/2	1		2	2	3		5	
	L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	8,000	12,000
	Н	66	60	71	10	91	0	1,0	50	1,1	10
	Α	485	655	545	715	595	630	645	690	845	955
	В	355	380	350	385	435	615	475	660	690	800
	M	2	00	20	00	20	00	20	0	27	'0
	φ	2	!6	2	6	3	6	3	6	4	6
	N	1	14	13	39	13	39	16	64	18	19
	Е	3:	35	34	45	4	15	46	0	45	55
	F	19	90	25	55	22	20	24	5	30)5
Approx.	<i>φ</i> d	4	0	4	5	5	6	7	1	9	0
dimensions	a	2	1	2	3	3	6	4:	2	5	8
	J	80	105	85	115	75	100	80	110	_	_
(mm)	K	20	100	20	90	30	110	35	120	_	_
	0	52	80	47	80	56	91	65	106	198	310
	R	52	230	47	217	58	237	79	262	198	310
	Q	25	5.5	32	2.5	35	i.5	41	.5	52	.5
	S	30	40	35	40	3	5	3	5	5	0
	С	304	510	294	497	314	528	344	568	666	890
	t	!	9	(9	(9	g)	1:	2
	G	3	80	39	90	50	00	55	55	59	00
	Р	12	20	12	20	12	20	18	80	18	0
	U		!8		8	2		3		3	
	φ X	1	0	1	0	1	0	1-	4	1-	4
Approx. weight (kg)	95	105	125	145	215	245	295	325	550	610

Hoist with Push-Driven Trolley

Dimensions



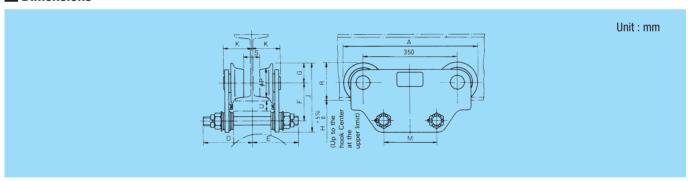
■ Table of Dimensions

Model		1⁄2M-I	P ₆₅ 1	2HM-P 65	1M-P	65 1	HM-P ₆₅	2M-P	5 2 F	IM-P75	3M-P	65 3	HM-P ₆₅
Hoist type		½M	6	½HM 6	1Me	6	1HM ₆	2M ₇	2	2HM7	3Me	;	3HM ₆
Trolley type		1P:	5	1P ₅	1Ps	5	1P ₅	3P ₅		3P ₅	3P ₅		3P ₅
Capacity (t)			1/2	!		1			2			3	
	L	6,00	00	12,000	6,00	0 1	12,000	6,000	1:	2,000	6,00	0	12,000
	Н		73	0		775	5		98	15		1,11!	5
	Α	485	5	655	545	i	715	595		630	645		690
Annrov	В	355	5	380	350)	385	435		615	475		660
Approx. dimensions	М		33	5		345	5		415			460	1
(mm)	Е		19	0		255	5		220			245	i .
()	K	20		100	20		90	30		110	35		120
	J	80		105	85		115	75		100	80		110
	<i>∲</i> d		40)		45			56			71	
	a		21			23			36			42	
Min. curve radius (m)			4.0	0		4.0)		4.0			4.0	
Dimensions with respect to	I-beam	U	R	S	U	R	S	U	R	S	U	R	S
150×75×5.5		38 (28)	115	5 26									
200×100×7		37 (27)	116	5 51	32 (27)	116	5 51	40	140	33			
250×125×7.5		34 (24)	118	3 76	29 (24)	118	3 76	37	143	58	37	143	58
300×150×11.5					19 (14)	128	3 101	27	153	83	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 ½HMe and 1HMe (Hoist type)

Dimensions

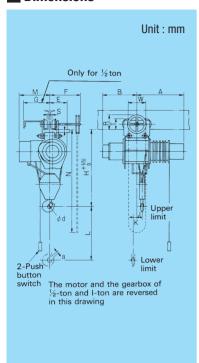


Model							11	P ₅											3	P 5					
Capacity (t)				1/2						1						2	2					3	3		
	Α						47	76											50	00					
	F						12	20											14	40					
Approx.	G						6	3											7	'5					
dimensions	Н			730	0					77	75					98	35					1,1	15		
(mm)	J						22	23											2	57					
	М						20	00											20	00					
	φ p		8																1	10					
Min. curve radius (m)			4.																4	.0					
Dimensions with respect to I-bear	n	D	Е	K	U	R	S	D	Ε	K	U	R	S	D	Ε	K	U	R	S	D	Е	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	198	198	93	40	140	33						
250×125×7.5		178	149	105	34 (24)	118	76	178	149	105	29 (24)	118	76	198	198	106	37	143	58	198	198	106	37	143	58
300×150×11.5			(24) 110 10						149	118	19 (14)	128	101	198	198	119	27	153	83	198	198	119	27	153	83
450×175×11																				198	198	132	29	151	108
Approx. weight (kg)			25																5	0					
Applicable hoist type			½(H)M6							1(H)M6					2(H)M7					3(H)M6		

- 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 ½-ton hoist.
- 4. () dimensions represent dimensions of $1\!\!\!/2\text{HM}_{\rm 0}$ and 1HMe (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		1/2	M-C	65	1⁄2H	IM-(C ₆₅	11	/I-C	65	1H	M-(C 65	21	/I-C	75	2H	M-	C 75	31	VI-C	65	3Н	M-(C65
Hoist type		1	½ M	6	1/2	2HM	l 6	•	1Me	j	1	ΗМ	6	2	2M7		2	ΗN	1 7	;	3Me	6	3	ΗМ	6
Trolley type				1/2	C 5					10	C 5					30	C 5					3	C 5		
Capacity (t)				1,	⁄2					1						2	2					;	3		
	L	6	,00	0	12	2,00	00	6	,00	0	12	2,00	0	6	,00	0	12	2,00	00	6	,00	0	12	2,00	0
	Н			7	15					77	75					98	35					1,1	15		
	Α		485	,		655	,	į	545			715		Ę	595		(630)		645	,		690	
	В		355	;		380)	,	350)	(385	i	4	435			615	5		475	i		660	
	М			3	35					34	15					41	5					46	30		
Approx.	Е			19	90					25	55					22	20					24	15		
dimensions (mm)	W		1	89	/24	0			1	89/	350)			2	31/	350)			2	231	/35()	
(111111)	K					100			20			90			30			110)		35			120	
	J		80			105			85			115			75			100)		80			110	
	φ d			4	0					4	5					5	6					7	1		
	а			2	1					2	3					3	6					4	2		
	N	6	,30	0	12	2,80	00	6	,30	0	12	2,80	0	6	,20	0	12	2,70	00	6	,20	0	12	2,70	10
Min. curve radius (m)				1.	.3					4.	.0					4.	.0					4	.0		
Dimensions with respect to	I-beam		G	S	Τ	U	R	F	G	S	Т	U	R	F	G	S	Т	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	32 (27)	134	366	_	33	150	40	188						
250×125×7.5		363	273	76	124	24 (14)	137	363	_	76	124	29 (24)	137	379	_	58	153	37	200	379	_	58	153	37	200
300×150×11.5								376	_	101	134	19 (14)	147	392		83	163	27	210	392	_	83	163	27	210
450×175×11																				405	_	108	161	29	208
Approx. weight (kg)			145			155			165		1	185			290)	;	320)		370)	,	400	_

NOTES: 1. () dimensions represent dimensions of ½HM6 and 1HM6 (Hoist type)

Dimensions

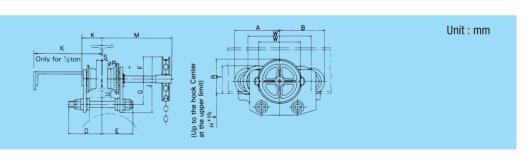


Table of Dimensions (This table applies to the standard headroom type. For the low headroom type, contact the nearest Hitachi Representative)

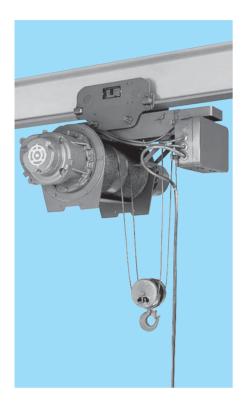
Model				1/20	5					10	C 5								3	C 5					
Capacity (t)				1/2						1	ı					2	2					3	,		
	А			185	5					24	10								2	50					
	В			230)					24	10								2	50					
	D			178	}					17	78								19	98					
Annrov	Е			149)					14	19								19	98					
Approx. dimensions	F			85						8	5								12	25					
(mm)	G			110)					12	20								14	40					
()	J			235	5					24	15								30	05					
	W/W'			189/2	40					189/	350								231	/350					
	∮ p			85						8	5								1	10					
	H(Standard)			715	5					77	75					98	35					1,1	15		
Min. curve radius (m)				1.3						4.	.0								4	.0					
Dimensions with respect to I-beam		K	М	R	S	T	U	K	M	R	S	T	U	K	M	R	S	T	U	K	M	R	S	T	U
150×75×5.5		247	337	133	26	120	28 (18)																		
200×100×7		260	350	134	51	121	27 (17)	92	350	134	51	121	32 (27)	93	366	188	33	150	40						
250×125×7.5		273	363	137	76	124	24 (14)	105	363	137	76	124	29 (24)	106	379	200	58	153	37	106	379	200	58	153	37
300×150×11.5								118	376	147	101	134	19 (14)	119	392	210	83	163	27	119	392	210	83	163	27
450×175×11																				132	405	208	108	161	29
Approx. weight (kg)				50						4	0								7	'4					
Applicable hoist type				½(H)I	VI 6					1(H)M6					2(H)M7					3(H)	M6		

- NOTES: 1. Weight indicates empty weight of the trolley.
 - 2. Dimensions W represent the drive side while W' equals driven side.
- 3. Unless otherwise specified trolley is being assembled so as to meet smudged I-beam size. 4. () dimensions represent dimensions of 1/2HM6 and 1HM6 (Hoist type)

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

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.



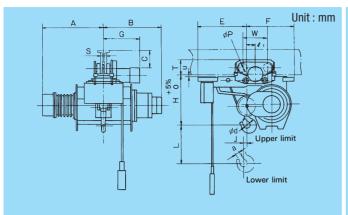
Specifications

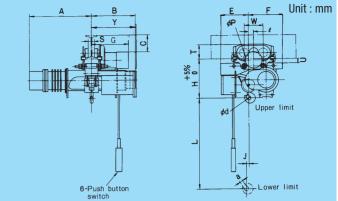
Capacity (t)			1/2	1	2	3	5		
Hoisting lift	(m)			6		6 and 12		6		
	Speed	d	50Hz	11	11	8.4	7.5	6.7		
	(m/mii	1)	60Hz	13	13	10	9	8		
Hoisting		(IAM)	50Hz	1.0	1.9	2.9	4.2	5.9		
	Motor	(kW)	60Hz	1.2	2.3	3.5	5	7		
		No. of	poles		•	4		•		
	Speed	d	50Hz			21				
	(mˈ/miɪ	1)	60Hz			25				
Traversing		(IAM)	50Hz		0.30		0.45	0.63		
	Motor	(kW)	60Hz		0.36		0.55	0.75		
		No. of	poles			4				
	No. o	of falls				4				
Wire rope	Comp	osition		6×W	(19)-B		6×Fi (29)-B			
	Diam	. (mm)		φ4	\$\phi\$ 6.3	<i>φ</i> 8	<i>φ</i> 10	<i>ф</i> 12.5		
Rating					40%	6 ED 400 Star	ts/h			
Operating r	nethod			Р	ush-button op	eration 🕦 🛈	\bigcirc)		
Electric sou	rce (3 phase)			200V 50/60H	Hz,220V 60Hz,3	80-400V 50Hz,	415V 50Hz,440	-460V 60Hz		
Control volt	age					200V 50/60Hz	φ 10 φ 12.5 Starts/h ↑ ⊕ ⊖ ⊘ ⊘ 50Hz,415V 50Hz,440-460V 60			

NOTE: 1. The suspension-type hoist and the hoist with chain-driven trolley will be produced on demand.

1/2L-T₅₅

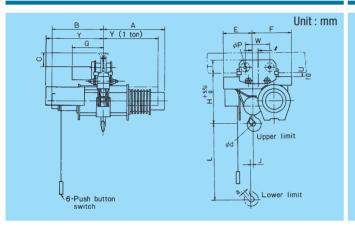
1L-T₅₅

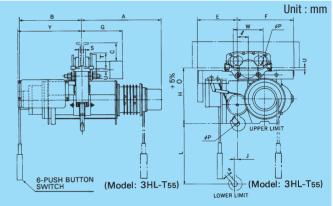




1HL-T₅₅, 2L-T₅₅, 3L-T₅₅

2HL-T₅₅, 3HL-T₅₅, 5L-T₅₅





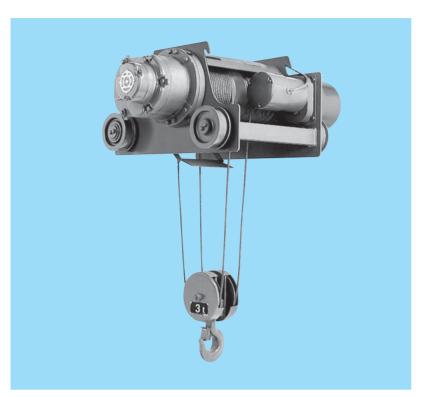
■ Table of Dimensions

Model			1	/2L-T	55		11	L- T 55		1HL-	T 55	2	L-T ₅₅		2HL-	T 55	3	L- T 55		3HL-	T 55		,	5L-T 5	i	
Hoist type				1/2L ₅	i			1 L 5		1HL	.5		2L5		2HL	.5	;	3 L 5		3HL	.5			5L ₅		
Trolley type				1/2T ₅	i			1T 5		1Ts	5		2T 5		2T 5	i		3T 5		3HL	T 5			5T 5		
Capacity (t)				1/2					1					2					3					5		
	L			6,000)		(6,000		12,0	000	(6,000		12,0	000	(5,000		12,0	000		(6,000)	
	Н			400				425		45	0		515		52	0.		600		65	0			810		
	Α			550				665		67	'5		705		78	5		785		83	30			845		
	В			430				475		56	0		540		63	5		600		70	00			690		
Approx.	W		2	00/29	90			2	00/29	90			2	00/29	90		23	30/310)	230/	410		2	50/33	80	
dimensions	Е			410				295		32	25		365		38	0		400		48	80			610		
	F			340				360		46	35		480		56	5		575		66	0			680		
(mm)	<i>∲</i> d			40					45					56					71					90		
	J			26				28		3	5		42		4	3		46		50	0			35		
	Υ			_				555		55	55		630		63	0		620		62	20			700		
	φ p			96					96					96					128			156/14	10(DRIV	E SIDE	/DRIVEN	I SIDE)
	a			21					23					36					42					58		
	l			40				54		10	8		85		10	4		100		99	9			89		
Min. curve Radius	s (m)		1	.3(5.0	0)				1.5					1.8				2.0		3.	5			3.0		
Dimensions with respect to I-bear	m (mm)	s	Т	U	С	G	S	Т	U	С	G	S	Т	U	С	G	S	Т	U	С	G	S	T	U	С	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	52	177	28	180	417					
300×150×11.5							92	160	40	225	400	92	160	20	225	404	77	187	18	220	430	77	225	23	215	450
450×175×11																	102	185	20	370	443	102	223	25	365	463
Approx. weight (I	kg)			155			:	205		285	5		310		400)	4	135		605	5			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.

Double-Rail Type Hoist



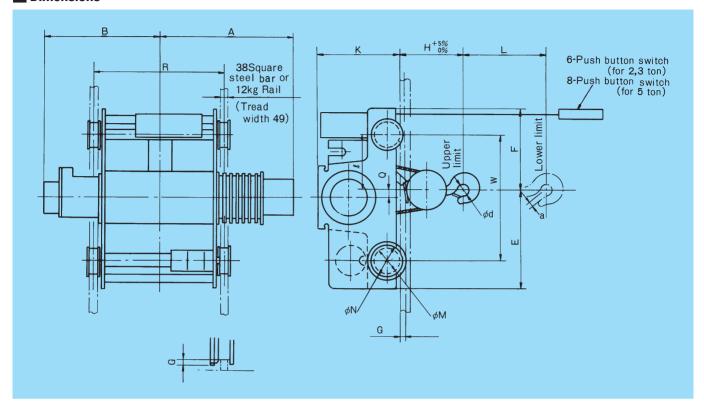
The double-rail hoist is ideally employed as an overhead traveling crane. Since the self-adjusting center core is adopted, the wheels closely follow the rails and are hard to derail during operation. The compact, dustproof structure occupies minimal space and requires less maintenance. Installation cost 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 an	d 12	8 and 12	12	12
	Speed	d	50Hz	8.4	7.5	6.7	6.0	5.0	5.0	4.2	2.8
	(m/mi	n)	60Hz	10	9	8	7.2	6.0	6.0	5.0	3.3
Hoisting		(kW)	50Hz	2.9	4.2	5.9	7.9	8.8	6.7×2	7.5×2	7.5×2
	Motor	(KVV)	60Hz	3.5	5	7	9.5	10.5	8×2	9×2	9×2
		No. of	poles					4			
	Speed	d	50Hz		21				14		
	(m/mi	n)	60Hz		25				17		
Traversing		(1444)	50Hz	0.30	0.45	0.45	0.45×2	0.45×2	0.45×2	0.45×2	0.7×2
	Motor	(kW)	60Hz	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			
	No.	of falls						4			8
Wire rope	Com	position			6×Fi (29)-B		6×Fi	(29)-B	6×Fi (29)-B	6×Fi (29)IWRC-B	6×Fi (29)-B
	Diar	n. (mm)		<i>ф</i> 8	<i>φ</i> 10	φ 12.5	<i>φ</i> 14	<i>ф</i> 16	<i>\$</i> 20	φ 22.4	<i>ϕ</i> 20
Rating						40% ED 400 st	arts/h		40	0% ED 250 starts	/h
Operating m	ethod			Push-butto	on operation \bigcirc		Push-button op	eration (ON)(O			
Electric sour	rce (3 phase)				20	0V 50/60Hz,220	V 60Hz,380-40	OV 50Hz,415V 5	0Hz,440-460V 6		
Control volta	age						200V 5	0/60Hz			

Double-Rail Type Hoist

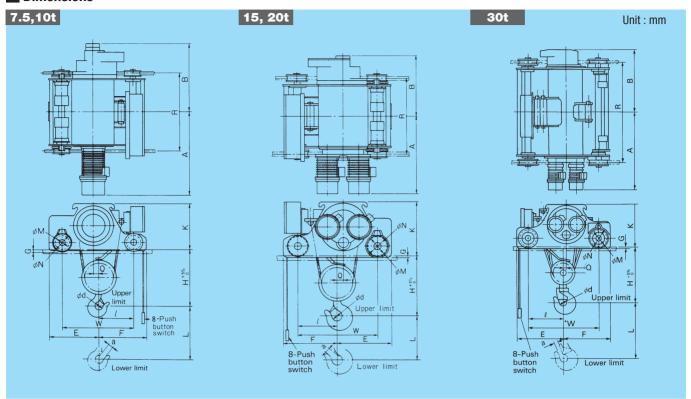
Dimensions



Model		2HD-T ₅₅	3D-T ₅₅	3HD-T ₅₅	5D-T ₅₅	5HD-T ₅₅
Hoist type		2HD₅	3D₅	3HD₅	5D₅	5HD₅
Trolley type		2DT₅	3DT₅	3DT₅	5DT₅	5DT₅
Capacity (t)		2	;	3	5	i
	L	12,000	6,000	12,000	8,000	12,000
	Н	310	3	60	56	0
	K	430	4	80	50	00
	R	900	650	950	900	1,150
	F	455	4:	30	53	30
	E	425	4	50	55	50
prox.	W	650	6	50	85	50
Approx. dimensions	А	835	755	915	845	955
(mm)	В	675	570	730	690	800
,,	∲d	56		71	g	00
	Q	40		51	5	55
	φM	160	10	60	16	60
	φN	190	19	90	19	00
	G	26		26	2	26
	l	350	3	25	42	25
	a	36		42	5	58
Rail (mm)			38	3 square steel bar or 12 k	g rail	
Wheel tread width (mm)				49		
Approx. weight (kg)		380	420	490	680	750

Double-Rail Type Hoist

Dimensions



Model		7.5D-T ₅₅	7.5HD-T ₅₅	10D-T ₅₅	10HD-T ₅₅	15D-T ₅₅	15HD-T ₅₅	20HD-T ₅₅	30HD-T ₅₅
Hoist type		7.5D₅	7.5HD₅	10D₅	10HD₅	15D₅	15HD₅	20HD₅	30HD₅
Trolley type		7.5DT₅	7.5DT₅	10DT₅	10DT₅	15DT₅	15DT₅	20DT₅	30DT₅
Capacity (t)		7	.5		10		15	20	30
	L	8,000	12,000	8,000	12,000	8,000	12,000	12,000	12,000
	Н	5	15	68	30	78	35	930	1,090
	K	60	00	60	00	73	30	730	850
	R	1,000	1,150	1,000	1,150	1,000	1,200	1,300	2,000
	F	60)5	6	15	70	00	700	905
	Е	6	15	6	50	74	40	740	935
A	W	86	35	9	15	1,04	40	1,040	1,400
Approx. dimensions	Α	1,075	1,150	1,075	1,150	1,060	1,160	1,210	1,550
(mm)	В	830	905	885	960	750	850	900	1,250
()	ø d	10	00	10	00	13	30	165	165
	Q	(67		70	3	39	91	65
	φM	19	95	19	95	25	50	250	350
	ϕ N	2:	25	2:	25	28	32	282	400
	G	1	29	- :	29	2	28	28	38
	a	(69		69	3	36	108	114
	l	43	33	44	45	50)5	505	685
Rail (mm)			44 square steel	bar or 15 kg ra	il	55 squar	re steel bar or 2	2 kg rail	65 square steel bar or 37 kg rail
Wheel tread width (mm)		5	3	5	3	6	6	66	76
Approx. weight (kg)		1,070	1,130	1,260	1,350	2,150	2,250	2,450	4,400

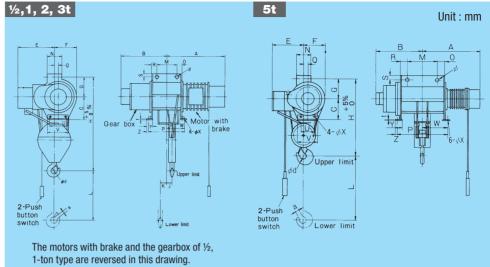
Stationary Type Hoist

21

Specifications

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

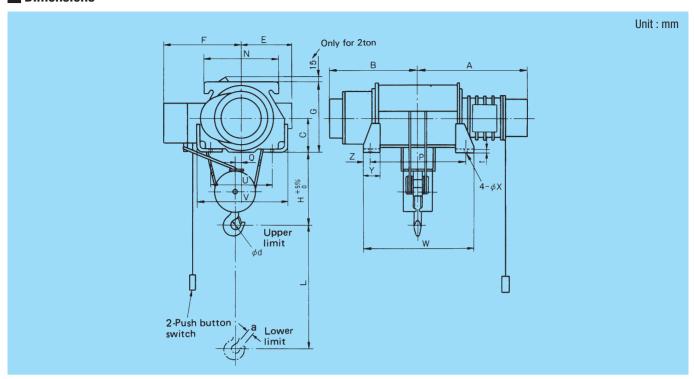
Dimensions



Model		1/2MW6	½HMW6	1MW ₆	1HMW ₆	2MW ₇	2HMW7	3MW ₆	3HMW ₆	5MW ₅	5HMW ₅
Capacity (t)		1,	½	1		2	2	;	3	5	5
	L	6,000	12,000	6,000	12,000	6,000	12,000	6,000	12,000	8,000	12,000
	Н	6	60	7	10	9	10	1,0	50	1,1	10
	Α	485	655	545	715	595	630	645	690	845	955
	В	355	380	350	385	435	615	475	665	690	800
	M	2	00	2	00	2	00	2	200	2	70
	φ		26		26	,	36		36		46
	N	1	14	1	39	1	39	-	164	1	89
	Е	3	35	3-	45	4	15	4	160	4	55
	F	1	90	2	55	2	20	2	245	3	05
	∳d		40		45		56		71		90
	a		21		23		36		42		58
	J	80	105	85	115	75	100	80	110	_	_
	K	20	110	20	90	30	110	35	120	_	_
Approx. dimensions (mm)	0	52	80	47	80	56	91	65	106	198	310
	R	52	230	47	217	58	237	79	262	198	310
	Q	25	5.5	32	2.5	35	5.5	4	1.5		2.5
	S	30	40	35	40		35		35		50
	U		80		80		80		260		60
	V	2	40	2	65	2	65	3	320		20
	С		42		42		12		342		15
	G	1	50	1	60	2	00	2	225	2	90
	Р	379	582	372	575	392	606	424	648	745	970
	W	190	218	186	213	195	240	205	246	373	485
	Υ		75		70		70		75		75
	Z		22		22		22		22		22
	t		12		12		12		12		12
	φX		18		18		18		18		18
Approx. weight (kg)		105	115	135	155	255	295	345	385	560	620

Stationary Type Hoist

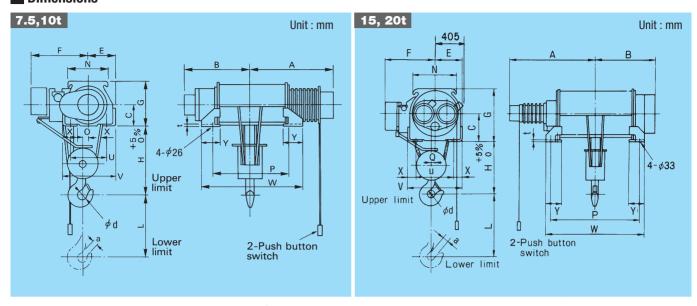
Dimensions



Model		2HDW₅	3DW₅	3HDW₅	5DW₅	5HDW₅
Capacity (t)		2	3	3	5	
	L	12,000	6,000	12,000	8,000	12,000
	Н	390	44	15	58	0
	Α	890	785	950	845	955
	В	730	600	765	690	800
	Е	225	23	38	27	8
	F	445	47	75	54	0
	С	171	19	95	24	5
	G	355	39	95	48	5
	N	340	4(00	42	0
Approx dimensions (mm)	Р	980	730	1,030	748	998
Approx. dimensions (mm)	Q	40	5	1	55	j
	U	300	30	00	38	0
	V	450	47	76	55	6
	W	1,040	790	1,125	994	1,218
	φχ	26	2	6	26	6
	Υ	89	11	15	19	0
	Z	30	30	47.5	123	110
	t	19	1	9	19	
	ϕ d	56	7	1	90)
	a	36	4	2	58	3
Approx. weight (kg)		260	340	390	600	665

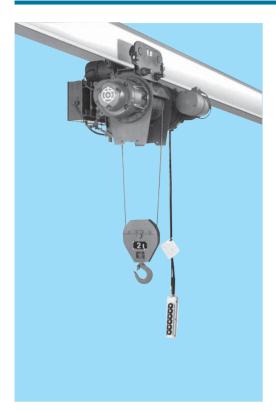
Stationary Type Hoist

Dimensions



Model		7.5DW₅	7.5HDW₅	10DW₅	10HDW₅	15DW₅	15HDW₅	20HDW₅
Capacity (t)		7.	5	1	0	15	15	20
	L	8,000	12,000	8,000	12,000	8,000	12,000	12,000
	Н	63	35	6	90	8	40	990
	Α	1,075	1,150	1,075	1,150	1,060	1,160	1,210
	В	830	905	885	960	750	850	900
	Е	27	78	3	09	3	70	370
	F	66	60	6	65	7	80	785
	С	25	50	3	00	3	40	340
	G	50	00	6	00	6	80	680
	N	46	60	5	00	5	60	560
Approx. dimensions (mm)	Р	945	1,095	945	1,095	950	1,150	1,250
	Q	6	7	7	0	3	39	91
	U	38	30	3	80	4	90	490
	V	55	56	6	18	7-	40	740
	W	1,315	1,398	1,248	1,398	1,200	1,400	1,494
	Х	14	18	1	79	2	00	200
	Υ	220	220	207	220	240	240	240
	φ d		1(00		1:	30	165
	t	19	9	1	9	2	22	22
	а	6	9	6	69	8	36	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 todey'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 safely 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.

	type					S.	TANDARD-I	HEADROON	TYPE HOIS	ST			
Ca	pacity (t)		1/2	1	2	3	5	7.5	10	15	20	
Hois	ting lift (ı	m)				6, 12			8,	12		12	
	Spe	ed	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	
	(m/ı	min)	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	
Hoisting		(LAM)	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	
	Motor	(kW)	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	
		No.of	poles	'				4/4					
	Spo	eed	50Hz			21			1	4	1	14	
	(m/ı	min)	60Hz			25			1	7	1	17	
Traversing		(LAM)	50Hz	0.30	0.30	0.30	0.45	0.63	0.47×2	0.47×2	0.7×2	0.7×2	
	Motor	(kW)	60Hz	0.36	0.36	0.36	0.55	0.75	0.56×2	0.56×2	0.84×2	0.84×2	
		No.of	poles	'		4			(5		4	
	N	lo. of fal	ls			2				4			
Wire rope	Co	ompositi	on	6×W(19)-B				6×Fi(29)-B				6×Fi(29)IWRC-B	
	D	iam.(mr	n)	∮ 6.3	<i>\$</i> 8	<i>∲</i> 11.2	φ14	φ12.5	φ14	<i>\$</i> 16	<i>\$</i> 20	φ22.4	

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 : 1 2 2 2 and 2 (2-step motion on 3 and 3, 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 parenthesos are for 15t or grearter.

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.

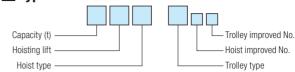
- Ambient temperature
 - -10°C to 40°C
- Humidity

Up to 90% (No condensation)

Applicable standard

JIS C9620 (Electric hoist) and Structural Code for Cranes (Japan)





Capacity	Hoisti	ng lift	Hoist type	Trolley type
Сараспу	Low lift	High lift	noist type	irolley type
Rated load	No	Н	V-series	Manual driven
indicated	mark		Standard headroom	trolley·····P
by tons			type·····MC	Chain driven
			Low headroom	trolley·····C
			type·····LC	Motorized
			Double rail type····DC	trolley·····T
			Double rail typeDC	uoney·····I

Example

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



NOTE: The machine type is separately maked for the hoist and trolley.

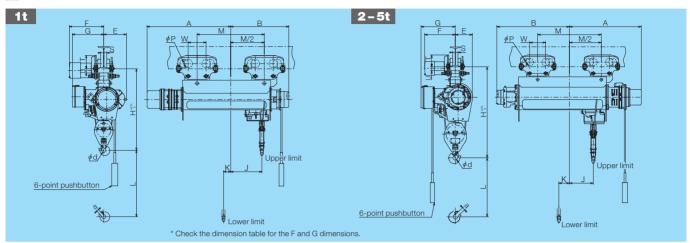
Example: Nameplate of hoist: 2HMC7

Nameplate of trolley: 2Ts

	LOW-HEA	DROOM TY	PE HOIST				DO	UBLE-RAII	L TYPE HO	IST		
1/2	1	2	3	5	2	3	5	7.5	10	15	20	30
6		6, 12		6	12	6, 12		8,	12		1	2
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
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
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
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
		4/4						4,	/4			
		21				21				14		
		25				25				17		
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
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
		4				4			,	1		4
	4							4				8
6×W(19)-B		6×Fi(29)-B			6×Fi(29)-B			6×Fi(29)-B		6×Fi(29)IWRC-B	6×Fi(29)-
<i>φ</i> 4	∮ 6.3	<i>φ</i> 8	<i>φ</i> 10	<i>∲</i> 12.5	<i>\$</i> 8	<i>∲</i> 10	<i>∲</i> 12.5	<i>ϕ</i> 14	<i>∲</i> 16	<i>\$</i> 20	<i>ϕ</i> 22.4	<i>\$</i> 20

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

■ Dimensions



Model			1MU-T ₆₅		2MU-T ₇₅			3MU-T ₆₅			5MU-T ₆₅						
Hoist type			11/	/U ₆			21	/IU ₇			3N	IU ₆			5N	1U 6	
Trolley type			1/2	2 T 5			1	T 5			2	T 5			3	T 5	
Rated load (t)				1				2			;	3			5		
Lift (m)		2	4	3	6	2	24	3	6	2	4	3	6	2	4	3	6
Hoisting speed	50Hz		-	11			8	.4			7	.5			6	.7	
(m/min)	60Hz		13			10				9	.0		8.0				
Hoisting motor	50Hz			.9				.9		4.2						.9	
(kW)	60Hz		2	.3			3	.5			5	.0			7.	.0	
Traversing speed										:1							
(m/min)	60Hz									25							
Traversing motor	50Hz			0×2				0×2)×2				5×2	
(kW)	60Hz		0.36×2					6×2				6×2			0.55	5×2	
Electric source (3	3-phase)					200V 50/	60Hz, 22	20V 60Hz	<u> </u>			Iz,440-46	60V 60Hz	!			
Rating								4	0%ED, 4	00starts/	h			1			
No. of falls - Diameter [Composition] of the w			2- φ 8 [4×F(40)-B]			2- φ 11.2 [4×F(40)-B]			2- \$\phi\$ 14 (6\times 37-A)			2- \$\phi\$ 18 (6)		,			
Approx. weight (I	kg)		385 440		475 605		645 760			1,140		1,250					
	L	24,0		36,0	000	24,			000	24,0		36,0	000	24,0		36,0	000
	Н			(950)				(1,190)				(1,330)			1,490/	, ,	
	A	93		1,1			05		115	95		1,1		1,0		1,3	
	В	65		87	' 5	915 1,045		920 1,150		93		1,1	75				
Approx.	E			55		220			245			325 550					
dimensions	G J	34		55 57	70	425 300 490			470 346 576			A (63	10		
(mm)	K	81		5		13			90 53	12		12			00 0	7	
	M	75		1,2			00		220	80		1,2		94			.385
	W	73		/290	00	00		/290	220	00	-	/290	00	3-	-	/310	,303
	φ d			15				56				'1				00	
	a			23				36				2				i8	
	<i>φ</i> p			96				96				6				28	
Clearance to I-beam (mm)		F			F	S	Т	U	F	S	Т	U	F	S	Т	U	
200×100×7		374	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	430	77	187	28
450×175×11		_	_	_	_	_	_	_	_	_	_	_	_	443	102	185	30
Min. curve radius	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.

 $^{2. \ \}mbox{The number in parentheses of the Min. curve radius indicates the minimum radius}$

of the I-beam bending curve.

3. The ultra high lift type for straight lines cannot be used for curved lines.

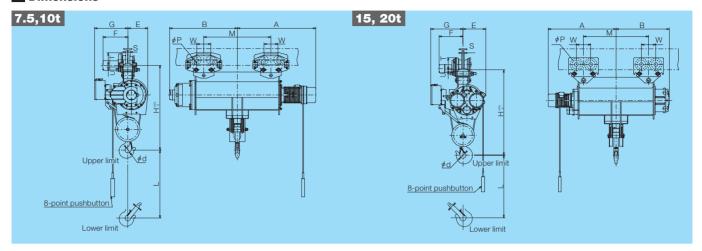
^{4.} The numbers in dimension W indicate the values for the driving side/driven side.

^{5.} Unless otherwise specified, the product is delivered in the I-beam dimension of

^{6.} If the rail contains curves, please notify us.

Hoist with Motorized Trolley (7.5-20t)

Dimensions



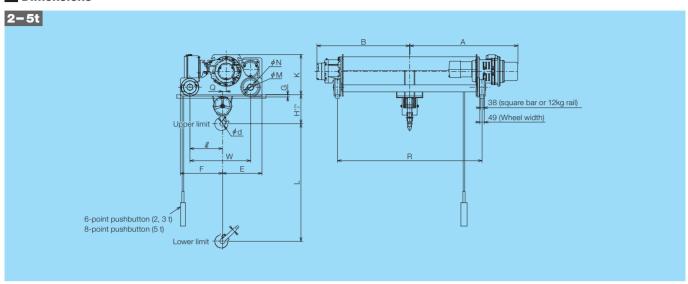
Model			7.5MU-T ₅₅			10MU-T ₅₅					15M	U-T ₅₆		20MU-T ₅₆			
Hoist type			7.51	MU ₅			101	MU ₅			151	MU ₅			201	MU ₅	
Trolley type			4F	T 5			5F	T 5			10	AT ₆			10	AT ₆	
Rated load (t)			7.	5			1	0			1	5			2	.0	
Lift (m)		2	0	3	0	2	0	3	0	2	0	3	0	2	20 30		80
Hoisting speed	50Hz		6.	.0		5		.0			5	.0			4	.2	
(m/min)	60Hz		7.	2			6	.0		6.0			5.0				
Hoisting motor	50Hz		7.					.8			6.7	×2			7.5	×2	
(kW)	60Hz		9.	.5			10).5			8.0	×2			9.0	×2	
Traversing speed	50Hz					14											
(m/min)	60Hz								1	7							
Traversing motor	50Hz		0.47					7×2		0.7×2					×2		
(kW)	60Hz	0.56×2						5×2				4×2			0.84	4×2	
Electric source (3	3-phase)							0V 60Hz,	380-40	0V 50Hz,4	415V 50H	lz,440-40)Hz			
Rating		40%ED,				00starts/h				40%ED, 2				250starts/h			
No. of falls - Diameter [Composition] of the wi		4- φ 14 [6×Fi(29)-B]			B]	4- φ 16 [6×Fi(29)-B]			4	- ∮ 20 [6	×Fi(29)-	B]	4-φ:	22.4 [6×	Fi(29)-B]]IWRC	
Approx. weight (k	(g)	1,450 1,650			1,8	370	2,4	170	3,7	00	4,2	200	3,9	00	4,6	500	
	L	20,	000	30,	000	20,	000	30,	000	20,0	000	30,	000	20,0	000	30,	000
	Н	1,3	345	1,3	345	1,515		1,5	515	1,865		1,865		5 2,010		2,010 2,010	
	Α	1,4	00	1,6	350	1,410		1,6	60	1,455		1,760		1,5	1,550 1,890		390
	В	1,1	60	1,4	110	1,2	220	1,4	70	1,1	40	1,4	50	1,2	:50	1,5	590
Approx.	Е	32	20	3	20	36	60	36	60	50		50	00	50	00	50	00
dimensions	G	60	00	6	00	60	00	60	00	70		70	05	70)5	70	05
(mm)	M	1,2	200	1,7	700	1,2		1,7	'00	1,4	00	2,0	000	1,5	30	2,1	180
(111111)	W	230			/310		/330		/330	309/			/309	309/			/309
	<i>∲</i> d	10			00	10		10		13	-		30	16	-	16	65
	a	6	9	6	9	6	9	6	9	8	6	8	6	10)8	10	08
	<i>∲</i> p	12	28	1:	28	156	/140	156	/140	19	90	19	90	19	90	19	90
Clearance to I-beam (mm)		F	S	T	U	F	S	Т	U	F	S	Т	U	F	S	Т	U
450×175×11		453	102	184	30	460	102	225	30	524	62	280	30	524	62	280	30
600×190×13		461 117 189 25		468 117 230 25		532 77 285 25		532 77 285 25		25							
Min. curve radius	us (m) Straight line				Straight line			Straight line			Straight line						

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

Please contact us when the rail contains curves.
 Unless otherwise specified, the product is delivered in the I-beam dimension of

Double Rail Type Hoist (2-5t)

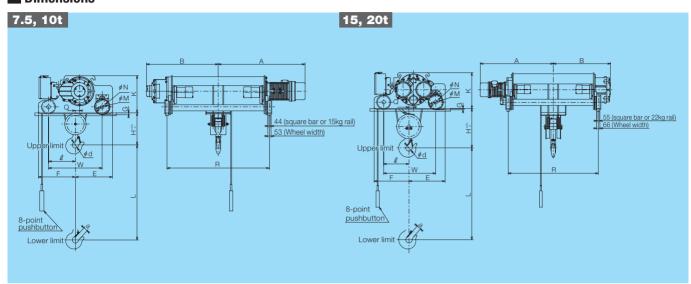
Dimensions



Model		2DU-T ₅₅	3DU-T ₅₅	5DU-T ₅₅		
Hoist type		2DU₅	3DU₅	5DU₅		
Trolley type		2DT₅	3DT₅	5DT₅		
Rated load (t)		2	3	5		
Lift (m)		20	20	20		
Hoisting speed	50Hz	8.4	7.5	6.7		
(m/min)	60Hz	10	9.0	8.0		
Hoisting motor	50Hz	2.9	4.2	5.9		
(kW)	60Hz	3.5	5.0	7.0		
Traversing speed	50Hz		21			
(m/min)	60Hz		25			
Traversing motor	50Hz	0.30	0.45	0.45		
(kW)	60Hz	0.36	0.55	0.55		
Electric source (3	3-phase)	200V 50/60	Hz, 220V 60Hz, 380-400V 50Hz,415V 50Hz,440	0-460V 60Hz		
Rating			40% ED, 400 starts/h			
No. of falls - Diameter [Composition] of the wi		4- φ 8 [6×Fi(29)-B]	4- <i>ф</i> 10 [6×Fi(29)-B]	4- \$\phi\$ 12.5 [6\times \text{Fi}(29)-B]		
Approx. weight (I			700	1,100		
	L	20,000	20,000	20,000		
	Н	310	360	560		
	K	430	480	500		
	R	1,550	1,550	1,850		
	F	455	430	530		
	Е	425	450	550		
Approx.	W	650	650	850		
dimensions	Α	1,170	1,215	1,320		
	В	1,010	1,030	1,165		
(mm)	<i>∲</i> d	56	71	90		
	Q	40	51	55		
	<i>∲</i> M	160	160	160		
	<i>φ</i> N	190	190	190		
	G	26	26	26		
	l	350	325	425		
	а	36	42	58		
Square rail (mm)			38 square bar or 12kg rail			
Wheel width (mm)	49	49	49		

Double Rail Type Hoist (7.5-20t)

Dimensions

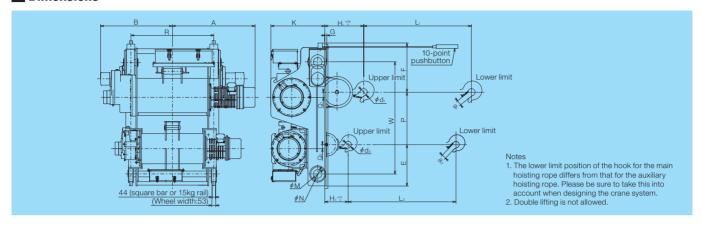


Model		7.5D	U-T ₅₅	10D	U-T ₅₅	15D	U-T 55	20DU-T ₅₅		
Hoist type		7.5	DU ₅	101	DU ₅	15	DU ₅	201	DU₅	
Trolley type		7.5	DT ₅	10	DT ₅	20	DT ₅	201	DT ₅	
Rated load (t)		7.5	7.5	10	10	15	15	20	20	
Lift (m)		20	30	20	30	20	30	20	30	
Hoisting speed	50Hz	6.0	6.0	5.0	5.0	5.0	5.0	4.2	4.2	
(m/min)	60Hz	7.2	7.2	6.0	6.0	6.0	6.0	5.0	5.0	
Hoisting motor	50Hz	7.9	7.9	8.8	8.8	6.7×2	6.7×2	7.5×2	7.5×2	
(kW)	60Hz	9.5	9.5	10.5	10.5	8.0×2	8.0×2	9.0×2	9.0×2	
Traversing speed	50Hz				1	4				
(m/min)	60Hz				1	7				
Traversing motor	50Hz	0.45×2	0.45×2	0.45×2	0.45×2	0.45×2	0.45×2	0.45×2	0.45×2	
(kW)	60Hz	0.55×2	0.55×2	0.55×2	0.55×2	0.55×2	0.55×2	0.55×2	0.55×2	
Electric source (3	3-phase)			200V 50/60Hz, 22	20V 60Hz, 380-40	0V 50Hz,415V 50H	Iz,440-460V 60Hz	!		
Rating			40% ED, 4	00 starts/h			40% ED, 2	50 starts/h		
No. of falls - Diameter [Composition] of the w	1 /	4- ∮ 14 [6	×Fi(29)-B]	4- ¢ 16 [6∶	×Fi(19)-B]	4-∮20 [6	×Fi(29)-B]	4- ϕ 22.4 [6×Fi(29)IWRC-B		
Approx. weight (I	(g)	1,500	1,650	1,700	1,810	2,940	3,200	3,000	3,800	
	L	20,000	30,000	20,000	30,000	20,000	30,000	20,000	30,000	
	Н	515	515	680	680	785	785	930	930	
	K	600	600	600	600	730	730	730	730	
	R	1,650	2,150	1,650	2,150	1,800	2,400	1,950	2,600	
	F	605	605	615	615	700	700	700	700	
	Е	615	615	650	650	740	740	740	740	
Approx.	W	865	865	915	915	1,040	1,040	1,040	1,040	
dimensions	Α	1,400	1,650	1,405	1,660	1,460	1,760	1,550	1,890	
	В	1,155	1,400	1,210	1,470	1,150	1,450	1,250	1,590	
(mm)	<i>∲</i> d	100	100	100	100	130	130	165	165	
	Q	67	67	70	70	89	89	91	91	
	<i>φ</i> M	195	195	195	195	250	250	250	250	
	<i>φ</i> N	225	225	225	225	282	282	282	282	
	G	29	29	29	29	28	28	28	28	
	l	433	433	445	445	505	505	505	505	
	а	69	69	69	69	86	86	108	108	
Square rail (mm)			44 square ba	ar or 15kg rail		55 square bar or 22kg rail				
Wheel width (mm)	53	53				66	66	66	

Pair Hoist

(7.5, 10t)

Dimensions

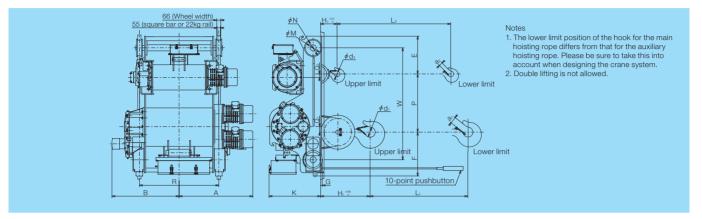


Model				7.5D/2HD-T ₅₅₅	7.5D/2HD-T555				10HD/2HD-T ₅₅₅	10D/3HD-T ₅₅₅	10HD/3HD-T ₅₅₅	10D/5D-T ₅₅₅	10HD/5HD-T ₅₅₅	
Hoist type				7.5D ₅	7.5HD₅	7.5D ₅	7.5HD₅	10D5	10HD5	10D5	10HD₅	10 D 5	10HD5	
Hoist type				2HDWZ5	2HDWZ ₅	3HDWZ ₅	3HDWZ ₅	2HDWZ5	2HDWZ ₅	3HDWZ ₅	3HDWZ ₅	5DWZ ₅	5HDWZ ₅	
Trolley type				7.5/2	2DT₅	7.5/3	BDT5	10/2	2DT₅	10/3	BDT ₅	10/	5DT₅	
	Rated loa	ad (t)			7.	5				1	0			
	Lift (m)			8	12	8	12	8	12	8	12	8	12	
	Speed		50Hz		6.			5.0						
Main rope	(m/min)	60Hz		7.					6				
		(kW)	50Hz		7.						.8			
	Motor		60Hz		9.			10.5						
	No of follo	No. of Diameter (mm)			4 414 60			4 4- φ 14 [6×Fi(29)-B]						
	Rated loa		[GOIIIPOSITIOII]		4- φ 14 [6×Fi(29)-B] 2 3				2		3		5	
	Lift (m)	au (t)			8 12 8 12			8	12	8	12	8	12	
	Speed		50Hz	8.		7.			.4		'.5		6.7	
Auxiliary	(m/min)	60Hz	11		9.			0		1.0		8.0	
rope			50Hz		2.9 4.2				.9		.2		5.9	
	Motor	(kW)	60Hz	3.		5.			.5	5	.0		7.0	
		No. of	poles	4		4			4		4		4	
	No. of falls -	Diameter (mm)	[Composition]	4- ∮8[6×	Fi(29)-B]	4- ∲ 10 [6×	Fi(29)-B]	4- ∮8[6×	Fi(29)-B]	4- ø 10 [6≻	Fi(29)-B]	4- ø 12.5[€	6×Fi(29)-B]	
	Speed		50Hz		14						4			
	(m/min)	60Hz		17			17						
Traversing		(kW)	50Hz		0.45×2			0.45×2						
navoromg	Motor		60Hz		0.55×2						5×2			
		No. of	poles		4						4			
FI 1:	Rating	`					01/ 50/0011 00/		00 starts/h	440 4001/00				
Operation meth)			Λ.				0V 50Hz,415V 50		West, South, Nor	Ha\		
Approx. weight				1,600	1,660	1,690	1,750	1,710	1,800	1,800	2,100	1,830	2,160	
Approx. Weigin	i (Ng)		L ₁	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	
			L ₂	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	8,000	12,000	
			H ₁	.,	41		,	-,	,		40	-,	, , , , , , , , , , , , , , , , , , , ,	
			H ₂	14	15	19	5	135 195 325					25	
			K		75	50				7:	50			
			R	1,000	1,150	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	675	675	
			E	635	635	645	645	635	635	645	645	630	630	
Approx. dimen:	sions		Р		71			7.	20	7		7	25	
(mm)			W		1,5				1		550		T	
(11111)			A B	1,075	1,150	1,075	1,150	1,075	1,150	1,075	1,150	1,075	1,150	
			<u>в</u> ∮ d₁	935	1,010	935	1,010	935	1,010	935	1,010	935	1,010	
			φ u1 a1		100					6				
			 φ d ₂	5					56		1		90	
			a ₂	36 42				36		12		58		
			Q ₁	67			70							
			Q ₂	40 51			40 51 55							
			≠ M	195			195							
			≠ N	225			225							
			G	29			29							
Square rail				44 square bar or 15kg rail			44 square bar or 15kg rail							
Wheel width (n	nm)			53					5	3				
					33									

Pair Hoist

(15 t, 20t)

Dimensions



Specifications Table

Model				15D/2HD-Tsss 15HD/2HD-Tsss 15D/3HD-Tsss 15HD/3HD-Tsss 15D/5D-Tsss 15D/5D-Tss 15D					15D/5HD-T ₅₅₅	20HD/2HD-T ₅₅₅	20HD/3HD-T ₅₅₅	20HD/5HD-T ₅₅₅		
Hoist type				15D₅	15HD₅	15D₅	15HD₅	15D₅	15HD₅	20HD5	20HD5	20HD5		
Hoist type				2HDW₅	2HDW₅	3HDW ₅	3HDW₅	5DW₅	5HDW₅	2HDW₅	3HDW₅	5HDW ₅		
Trolley type				15/2DT₅	15/2DT₅	15/3DT₅	15/3DT₅	15/5DT₅	15/5DT₅	20/2DT₅	20/3DT₅	20/50T ₅		
	Rated loa	ad (t)					15				20			
	Lift (m)			8	12	8	12	8	12		12			
	Speed		50Hz				.0				4.2			
Main rope	(m/min)	60Hz			6	.7				5.0			
maiii ropo		(kW)	50Hz				×2				7.5×2			
	Motor		60Hz				×2				9.0×2			
		No. of					4			4				
		Diameter (mm)	[Composition]			4- ∮ 20 [6>	. ,				4-			
	Rated loa	ad (t)			2		3		5	2	3	5		
	Lift (m)			8	12	8	12	8	12		12			
	Speed		50Hz		8.4 7.5 6.7			8.4	7.5	6.7				
Auxiliary	(m/min)	60Hz		10 9.0 8.0			10	9.0	8.0				
rope		(kW)	50Hz		.9		.2		.9	2.9	4.2	5.9		
	Motor		60Hz		.5		.0		.0	3.5	5.0	7.0		
		No. of			4		1		4	4	4	4		
		Diameter (mm)		4- ∲8[6×	Fi(29)-BJ	4- ∲ 10 [6×		4- 夕 12.5 [63	×Fi(29)-BJ	4-∮8 [6×Fi(29)-B]		4-φ12.5 [6×Fi(29)-B]		
	Speed		50Hz				4				14			
	(m/min)	60Hz				7				17			
Traversing		(kW)	50Hz				5×2				0.45×2			
ŭ	Motor		60Hz		0.55×2						0.55×2			
		No. of	poles		4						4			
	Rating	,						0% ED, 250 starts						
Electric source)					/60Hz, 220V 60Hz	,						
Operation met				0.700			shbutton (ON, OFF,					0.500		
Approx. weigh	t (Kg)			2,730	2,810 12,000	2,830 8,000	2,930	3,010 8,000	3,170	3,140	3,260	3,500		
			L ₁	8,000			12,000		12,000	12,000				
			H ₁	8,000	12,000	8,000	12,000 65	8,000	12,000	12,000 810				
			H ₂		30		40	2	70	75	140	270		
		-	K		50		50		70	73	850	210		
			R	1,000	1,200	1,000	1,200	1,000	1,200		1,300			
			F	,	20	,	20	,	20		720			
			E		55		80		75	620	680	675		
			P		65		40		45	940	940	945		
Approx. dimen	sions		W				320		-	540	1,820	3 10		
(mm)			A	1,060	1,160	1,060	1,160	1,060	1,160	<u> </u>	1,210			
			В	950	1,050	950	1,050	950	1,050	<u> </u>	1,100			
			 ∲ d₁		,		30		,,,,,,		165			
			a ₁		86						108			
			∮ d₂	56 71 90					90	56	71	90		
			a 2	3			12		58	36	42	58		
			Q ₁	8	9	8	19	8	39	91				
			Q ₂	4	0	į	51	Ę	55	40	51	55		
		9	≠ M				50				250	-		
		9	≠ N			2	82				282			
			G			2	28				28			
Square rail				55 square bar or 22kg rail 55 square bar or 22kg rail					rail					
Wheel width (r	nm)			66 66										
IOTE 4 NA		01.401	1.501 1	00 00										

NOTE: 1. Models of 30t,40t and 50t will be produced on demand.

Special Hoisting Speed Type Hoist

Specifications Table

50Hz (Unit: m/min)

		Low-spee	d hoisting	High-spee	d hoisting			* Dual-spe	ed hoisting		
Rated load (t)	Standard speed	Half (1/2 speed)	Creep (1/4 speed)	Fast (×1.5 speed)	Fast (×2 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 ×1.5 / 0.75 speed (2 : 1)	Standard ×2 / 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.

Special Traverse Speed Type Hoist

Specifications Table

50Hz

(Unit: m/min)

			traversing		* Dual-speed traversing				
Rated load (t)	Standard speed	Slow	Creep (1/4 speed)	High-speed traversing	Standard / 1/4 speed (4 : 1)	Standard / half speed (2 : 1)	Standard ×2 / 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

60Hz (Unit: m/min)

		Low-spee	Low-speed hoisting		High-speed hoisting		* Dual-speed hoisting						
Rated load (t)	Standard speed	Half (1/2 speed)	Creep (1/4 speed)	Fast (×1.5 speed)	Fast (×2 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 ×1.5 / 0.75 speed (2 : 1)	Standard ×2 / 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	8.0/4.0	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.

Specifications Table

60Hz

(Unit: m/min)

		Low-speed	l traversing		*	Dual-speed traversir	ng
Rated load (t)	Standard speed	Slow	Creep (1/4 speed)	High-speed traversing	Standard / 1/4 speed (4 : 1)	Standard / half speed (2 : 1)	Standard ×2 / 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	_	25/6.0	25/12.5	50/25
*7.5	17	12.5 8.5	4.2	25	17/4.2	25/12.5 17/8.5	_
*10	17	12.5 8.5	4.2	25	17/4.2	25/12.5 17/8.5	_
15	17	8.5	4.2	_	17/4.2	17/8.5	_
20	17	8.5	4.2	_	17/4.2	17/8.5	_
*30	17	8.5	4.2	_	17/4.2	17/8.5	_

NOTE: 1: *7.5, 10 (tons): The upper stage is of the standard type, and the lower stage is of the double rail type. *30 (tons): Available only for the double rail type.

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	Туре	Rated load (t)	Lift (m)
	Standard	1,2,3,5	6,12,24,36 (1-3t) 8,12,24,36 (5t)
Ignition group: G4	Low head	1,2,3,5	6,12
Explosion proof: 2	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.

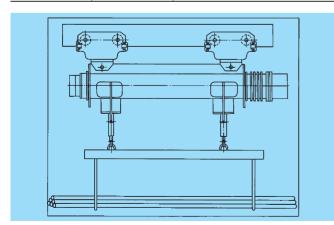


Multi Hook Type Hoist

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-V₅) 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-V₅ Specifications

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

■ UDS-V₅ Operation

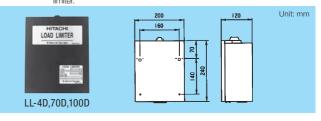
The VDS-V5 takes the revolution of the lifting motor taken out from the end bracket in the gear case, and feeds it to the reduction gear inside the UDS-V5, which turns the cam in order to open and close the limit switch.

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.

Туре		D type load limiter			
Specifications		LL-4D	LL-70D	LL-100D	
Applicable models	200V class	_	A-series 1—3t V-series 1/2—10t	V-series Over 15t	
	400V class	A-series 1t V-series 1/2t	A-series 2—3t V-series 1—30t	_	
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



Crane Saddles

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

These three types of Hitachi Crane Saddled are available:

1. Toprun type

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

2. Suspension type

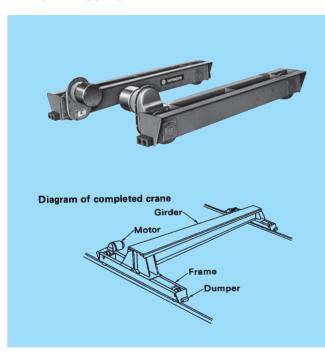
The suspension type crane saddles can be placed under existing roof beams.

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

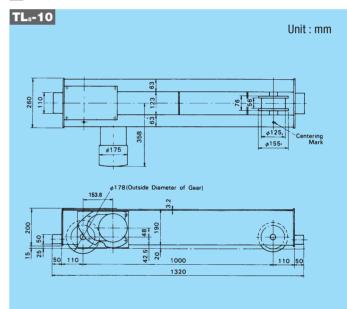
3. Wheel unit for toprun-type saddle

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 (Inverted hat cross-section structure)



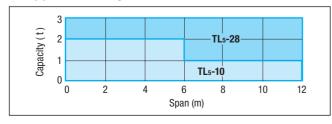
Dimensions



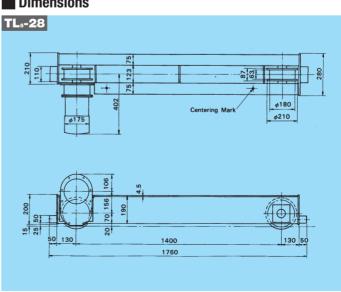
Specifications

Model	TL5-10	TL5-28			
Max. wheel load (t)	1.0	2.8			
Traveling speed (50/60 Hz)(m/min.)	21/25				
Motor (with brake) (50/60 Hz)(kW)	0.30/0.36×2				
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)	15 22				
Approx. weight (kg)	55×2 90×2				

Applicable Range

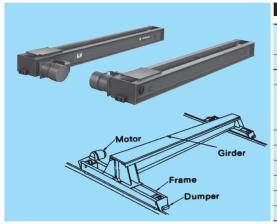


Dimensions



Crane Saddles

● Toprun Type (Double channel structure)

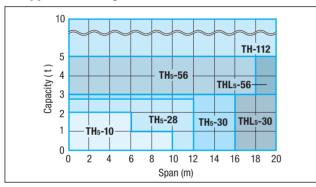


Specifications table

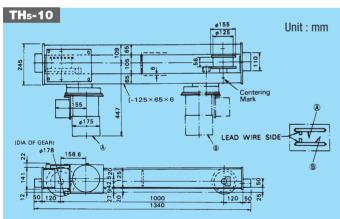
Model Specifications	TH ₅ -10	TH ₅ -28	TH ₅ -30	THL5-30	TH5-56	THL5-56	TH-112
Max. wheel load (t)	1.0	2.8	3.0	3.0	5.6(4.0)*	5.6(4.0)*	11.2(7.0)*
Traveling speed (50/60 Hz)(m/min.)	21/25	21/25	21/25	21/25	21/25	21/25	25/30
Motor (with brake) (50/60 Hz)(kW)	0.30/ 0.36 ×2	0.30/ 0.36 ×2	0.30/ 0.36 ×2	0.30/ 0.36 ×2	0.70/ 0.84 ×2	0.70/ 0.84 ×2	2.5/ 2.9 ×2
Rating		•	25%	ED 250 St	arts/h		
Wheel Dia. (mm)	125	180	180	180	250	250	355
Wheel tread width (mm)	56	63	63	63	70	70	80
Traveling rail (kg)	12,15	15,22	15,22	15,22	22,30	22,30	30,37
Approx. weight (kg)	70×2	110×2	175×2	190×2	250×2	310×2	650×2
Electric source (3 phase)	200V 50/	60Hz,220	/ 60Hz,380	0-400V 50	Hz,415V 50	0Hz,440-4	60V 60Hz

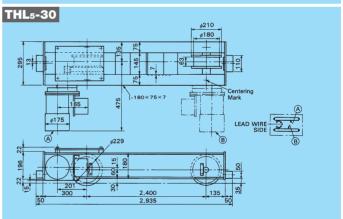
^{*}Figure shown in () is applied for a monorail girder.

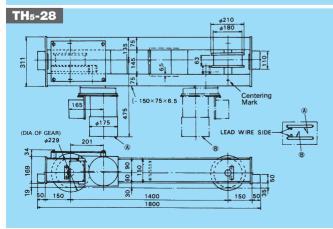
Applicable Range

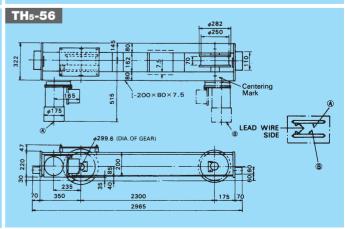


Dimensions

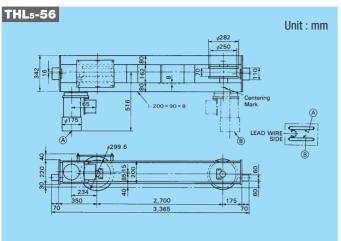


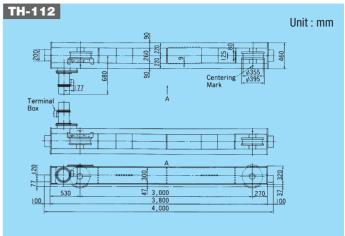




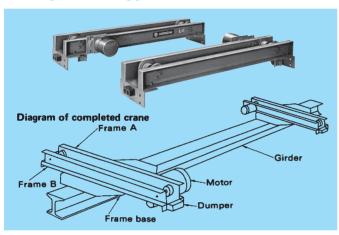


Crane Saddles

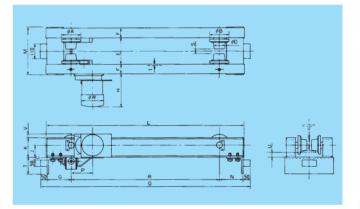




Suspension Type



Dimensions



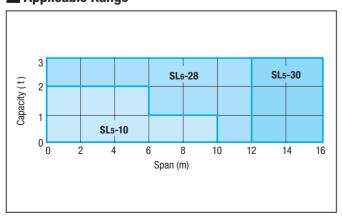
Specifications

Model	SL ₅ -10	SL ₆ -28	SL ₅ -30			
Max. wheel load (t)	1.0 2.8 3.0					
Traveling speed	21/25					
(50/60Hz)(m/min.)						
Motor (with brake)	0.30/0.36×2					
(50/60Hz)(kW)						
Rating	25%	6 ED 250 Start	:s/h			
Approx. weight (kg)	70×2 105×2 140×2					
Electric source (3 phase)	200V 50/60Hz,220V 60Hz, 380-400V 50Hz,415V 50Hz,440-460V 60Hz					

■ Table of Dimensions

Model		5	L ₅ -1	0	S	L6-2	8	S	L5-3	0
Frame size (mm)		12	125×65×6		150×75×6.5		180	180×75×7		
	φ A		144	44		163			163	
	<i>∲</i> B		144			163		163		
	С		15			20			20	
	φ D		76			100			100	
	F		65			75			75	
	G		147			158			158	
	Н		294			294			294	
	J		73			85			90	
Approx. dimensions (mm)	K	125			150			180		
	L	1,300		1,720		2	,320			
	М		350		397			397		
	N		147		158			158		
	Р		153	.4	158.3		158			
	Q	1,	,394		1,816		2,416			
	R	1	,000		1,400		2,000			
	T		90			100		100		
	V		36			31			10	
	φW		175			175		175		
Dimension I-Beam (mm)	Dimensions (mm)			U	Е	S	U	Е	S	U
200×100×7	158	37	25	167	24	25	167	24	30	
250×125×7.5			62	22	192	49	23	192	49	28
300×150×11.5			87	13	217	74	15	217	74	20
450×175×11			-	-	243	99	18	242	99	23

Applicable Range



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

Crane Saddle with Creep Speed

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

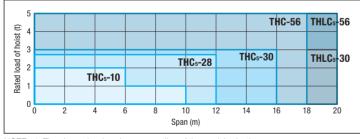
■ Standard Specification Table

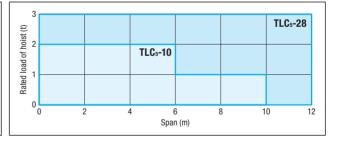
	Model					Top ru	n type				Su	Suspension type		
	MOUCI		TH type						TL 1	type	SL type			
	Туре		THC₅-10	THC₅-28	THC₅-30	THLC5-30	THC₅-56	THLC₅-56	TLC5-10	TLC₅-28	SLC ₅ -10	SLC ₅ -10 SLC ₅ -28 SLC ₅ -30		
M	lax. wheel load	(t)	1	2.8		3	5.6	*(4)	1	2.8	1	1 2.8 3		
M	lax. span (m)		10	12	16	20	18	20	10	12	10	12	16	
Travellir	ng speed (m/min)	50Hz				21	/5					21/5		
Standa	ard / creep	60Hz				25	5/6					25/6		
	kW	50Hz		0.30/0.08×2			0.70/0).18×2	0.30/0.08×2		0.30/0.08×2			
Motor	Standard / creep	60Hz	0.36/0.09×2				0.84/0).21×2	0.36/0).09×2	0.36/0.09×2			
	No. of poles, star	ndard / creep				2,	/8				2/8			
R	ating		25% ED, 250 starts/h						25%	ED, 250 sta	rts/h			
W	heel diameter	(mm)	<i>∲</i> 125		<i>∲</i> 180		φ2	50	<i>∲</i> 125	<i>\$</i> 180	<i>∲</i> 76	<i>φ</i> 1	00	
W	heel material				FCD heat	treatment			F	CD	S45	C heat treatr	nent	
A	Applicable rail		12, 15kg		15, 22kg		22, 30kg		15kg	22kg	200×100×7 250×125×7.5 300×150×11.5	250×12 300×15	200×100×7 250×125×7.5 300×150×11.5 450×175×11	
A	pprox. weight (kg)	80×2	120×2	185×2	200×2	260×2	320×2	65×2	100×2	80×2	115×2	150×2	

- NOTES: 1: Only anti-corrosion coating is applied on the body. 2: THCs-56, THLCs-56 and THMCs-45 are for the double rail hoist.
 - 3: (4) indicates the maximum wheel load for the monorail girder.

Toprun Type

Applicable Range

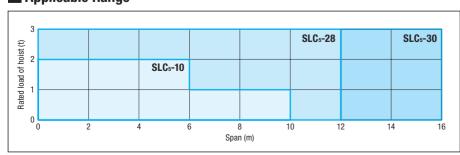




NOTE: 1. The above drawing shows an outline of the model selection. In practice, wheel load calculation including the girder is required.

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.

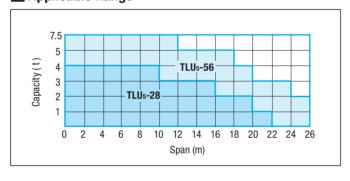
Wheel Unit for Toprun Type Saddle



Specifications

Model	TLU ₅ -28	TLU ₅ -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 60H				
Rail (kg)	22	30			

Applicable Range



Dimensions

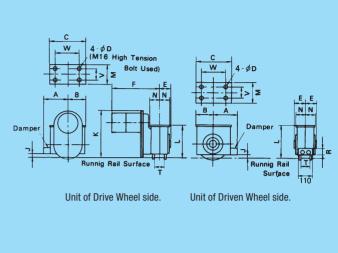
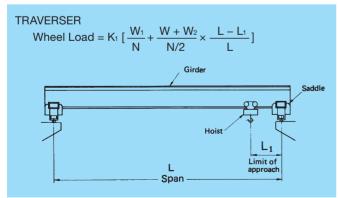


Table of Dimensions

Туре		TLU ₅ -28	TLU₅-56
	Α	180	230
	В	135	170
	С	270	340
	φ D	18	22
	Е	81	95
	F	410	450
	J	25	45
Approx. dimensions (mm)	K	352	372
	L	240	290
	M	140	190
	N	70	95
	R	50	60
	V	80	100
	W	190	230
Approx.weight	(kg)	65	125
Wheel tread (mm)	Т	63	70

Wheel Load Calculation for Traversers and Crabs

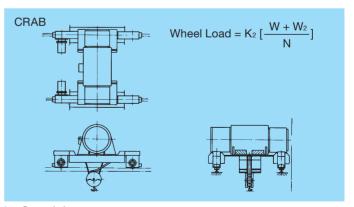


N : Number of Crane Wheels=4

W: Rated Load (t)

W1: Weight of Crane (t)

W2: Weight of Hoist (t)



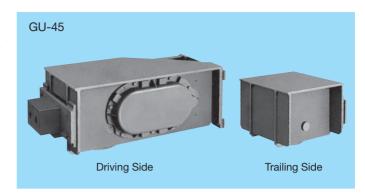
L : Span (m)

L1: Limit of Approach (m) K2: Imp

 $K_1: Impact\ Coefficient\ (1.2)$ $K_2: Impact\ Coefficient\ (1.6)$ Specifications are subject to change without notice.

Wheel Unit for Gantry Crane Saddle

- The wheel unit for Hitachi's gantry crane saddle 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

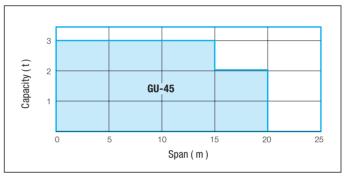
Model	GU-45
Max. Wheel Load	4.5
Traveling Speed (50/60Hz)(m/min.)	25 / 30
Motor (50/60Hz) (kW)	1.2/1.5 (With brake)
Motor Pole Number	4
Rating	25% ED 250 Starts / h
Electric Source (3 phase)	200V 50/60Hz,220V 60Hz, 380-400V 50Hz,415V 50Hz,440-460V 60Hz
Brake Torque (TB/TM)	0 – 60 %
Traveling Rail (kg)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

^{*}The coating of the main body consists of only the rust proof coating.

Fixed leg

Saddle

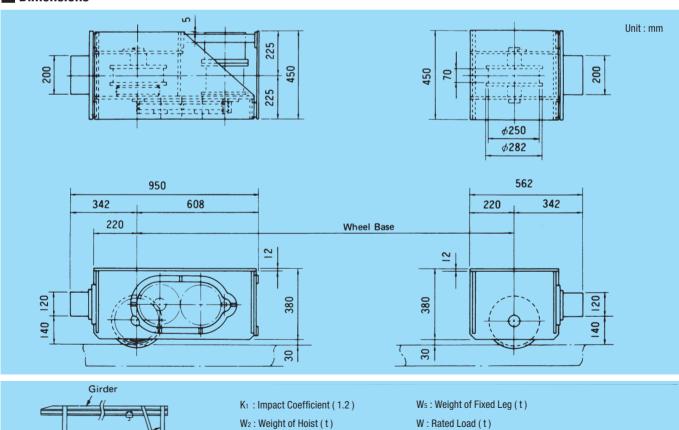
Applicable Range



Wheel Load = $K_1 \left(\frac{W_3 + W_4}{4} + \frac{W_5 + W + W_2}{2} \right)$

If the span exceeds 20m there is danger of the motor lacking output by the influence of the wind. Therefore, the maximum span is limited to 20m.

Dimensions



W₃: Weight of Girder (t)

W4: Weight of Saddle (t)

Electrical Parts for Crane Saddle

Geared Motor

• By exclusive designing for the crane saddle, the flange dimension and fit joint diameter are designed to be convenient for attachment. The types of units range from 0.4–3.7 kW, and high speed type and low speed type are made in series.

Application

- For saddle of overhead crane with hoist. (Two-motor drive system)
- For traversing and traveling of crab type overhead crane.
- For saddles of gantry crane (Two-motor drive system)

(When employed for gantry cranes and so on for outdoor operation, ascertain that an outdoor cover is used.)

Besides the above, as special geared motors, there are low speed geared motors (50/60min⁻¹), variable speed geared motors, etc., so please feel free to make inquiries.



Standard Specifications Table

Output(kW)		Model	Voltage	Output Speed (min ⁻¹) 50Hz 60Hz			Dating	Tolerable Starting	Type From		Brake Torque	
Output(kw)	(Low speed/High speed)	Frequency	Low Speed	High Speed	Low Speed	High Speed	Rating	Frequency (times/hr.)	Motor	Brake	(%)	
	0.4	(N)YEGEH - 0.4/(N)YJGEH - 0.4	3 φ	75	160	90	190		120	YTOG-K	MS-HB	- 40
	0.75	(N)YEGEH - 0.75/(N)YJGEH - 0.75	200V 50/60Hz,	75	160	90	190		100		MS-HB	
	1.5	(NB)YEGEH - 1.5/(NB)YHGEH - 1.5	220V 60Hz,	75	120	90	145	S3 25%	95		MS-HB	
	2.2	(N)YEGEH - 2.2/(N)YHGEH - 2.2	380-400V 50Hz,	75	120	90	145	33 2370	90		MS-FE	
	3.7 (Low Speed Only)	(N)YEGEH - 3.7/	415V 50Hz, 440-460V 60Hz	75	_	90	_		90 (Low-Speed Only)	YTF0G-K	MS-FE	

NOTES:

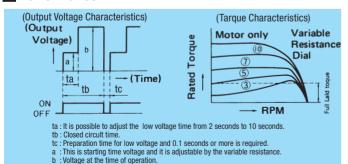
- 1. The tolerable starting frequency is the value which makes the load ${\rm GD^2}$ (flywheel effect) 10 times that of motor ${\rm GD^2}$
- In case of usage in which the load GD^2 exceeds the standard value, please make inquiries.
- The joint usage of cushion starter or primary resistance will prevent the shaking of the load, and alleviate the impact shock, so always use such devices.
- The models having output of 2.2 kW and 3.7 kW are equipped with temperature relays which detect the temperature of motor coil directly.
- Models having output of 0.4 kW-1.5kW have no temperature relays. However, if you desire to have temperature relays equipped, they will be equipped to order.

Cushion Starter

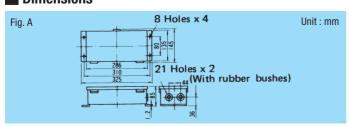
This will alleviate the impact at the time of starting of the geared motor for crane saddles. It is possible to adjust the starting (low voltage) time from 2 seconds to 10 second. The starting torque can be varied continuously over a broad range merely by turning the variable resistance slider for adjustment. Since this is all electronic type without any moving parts, the reliability is extremely high and maintenance is practically not required.



Performance



Dimensions



Specification Table

Model	Maximum Motor Output Applied	Electric Source	Dimension	Weight				
HQ-0C	1.5 kW	100 2204						
HQ-2C	3.7 kW	190-230V 50/60 Hz						
HQ-4C	7.5 kW	30/00112	Fig. A	3 kg				
HQ-1HC	3 kW	380-460V						
HQ-4HC	7.5 kW	50/60 Hz						

NOTES

(1)HQ-0C—HQ-4C and HQ-1HC—HQ-4HC are planned production models.
(2) As for the applied motor , so long as the total output is less than the applied maximum motor output , more than one motor may be operated.

For Installing the Hitachi Hoist

Size of I-Beam and Max. Allowable Span

Standard I-beam sizes and marked with O.

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

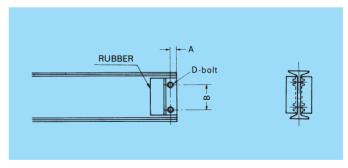
				Max. al	lowable I-beam s	pan (m)			
Capacity (t)				Dimension	s of I-beam empl	oyed (mm)			
	150×75×5.5	200×100×7	250×125×7.5	250×125×10	300×150×11.5	350×150×12	400×150×12.5	450×175×11	600×190×13
1/2	○3.0	●4.5	○7.0	○7.9					
1		○3.5	●5.4	○6.4	○8.6	○9.9			
2		○2.3	●4.0	○4.9	○6.9	○8.0	○8.5		
3			○2.9	○3.8	●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.

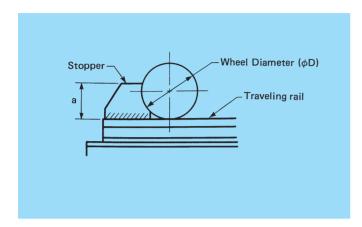


I-beam (mm)	150×75	200×100	250×125	350×150	450×175
Angle steel (mm)		50×50×6	65×65×6		
A (mm)		22	30		
B (mm)	70	105	190	280	
D (mm)	M10	M16	M16	M20	M20

For Installing the Hitachi Hoist

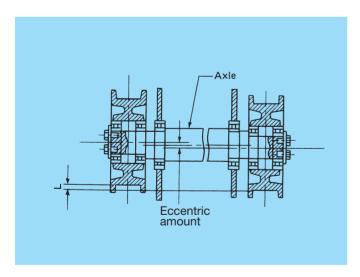
Stopper For Double-Rail Type Hoist

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.



		(mm)
Capacity (t)	Wheel diameter (ϕ D)	а
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

Вошен	Consoitu		Minimum Fuse Capacity (A)					
Power Source	Capacity							
Source	(t)	0.75	1.25	2	3.5	5.5	8	oupuoity (11)
220V	1	24	40	64	112	_	_	15
50Hz	2	_	_	38	66	103	_	20
30112	3	_	_	_	42	65	94	40
380-415V	1	67	111	177	309	_	-	10
50 Hz	2	-	67	107	187	293		15
30 HZ	3	-	41	65	113	177	257	30

V-series (200V class)

Capacity	Hoist	Power	Permissible Length of Power Source Cable (m) Nominal Sectional Area of Conductor (mm²)													
(t)	Motor (kW)	Source														
(-7	` ′		0.75	1.25	2	3.5	5.5	8	14	22	30	38	60	80	100	125
	1.0	200V 50Hz	28	47	76	133	209									
1/2	1/2	200V 60Hz	13	23	37	65	102									
		220V 60Hz	28	47	75	132	207									
	1.9	200V 50Hz	_	25	40	71	112	163	285							
1	2.3	200V 60Hz	_	12	20	35	55	80	140							
	2.0	220V 60Hz	-	25	40	70	111	161	282							
	2.9	200V 50Hz	-	_	⟨22⟩	38	59	86	151	237						
2	3.5	200V 60Hz	-	-	⟨10⟩	18	28	41	72	113						
	3.5	220V 60Hz	_	-	(21)	35	55	81	142	223						
(2.8)	4.2(4.0)	200V 50Hz	_	_	_	⟨31⟩	48	70	123	193						
3	5(4.8)	200V 60Hz	_	_	_	⟨15⟩	23	34	60	94						
	0(4.8)	220V 60Hz	_	_	_	⟨30⟩	46	66	116	182						
	5.9	200V 50Hz	_	_	_	_	_	48	84	132	180	228				
5	7	200V 60Hz	_	_	_	_	_	23	40	63	86	109				
	/	220V 60Hz	_	_	_	_	_	46	81	127	173	219				
	7.9	200V 50Hz	-	_	_	_	_	_	24	37	51	65	103	138		
7.5	0.5	200V 60Hz	_	_	_	_	_	_	27	42	58	73	116	155		
	9.5	220V 60Hz	-	_	_	_	_	_	26	41	56	72	113	151		
	8.8	200V 50Hz	_	_	_	_	_	_	24	37	51	65	103	138		
10	10.5	200V 60Hz	-	_	_	_	_	_	27	42	58	73	116	155		
	10.5	220V 60Hz	-	_	_	_	_	_	26	41	56	72	113	151		
	6.7×2	200V 50Hz	_	_	_	_	_	_	_	25	34	43	68	91	113	142
15	0.40	200V 60Hz	_	_	_	_	_	_	_	28.5	39	49	78	103	129	162
	8×2	220V 60Hz	_	_	_	_	_	_	_	27	36	46	73	97	121	150
20	7.5×2	200V 50Hz	_	_	_	_	_	_	_	21	28	36	56	74	173	136
		200V 60Hz	_	_		_	_	_		23	32	40	63	84	105	132
30	9×2	220V 60Hz	_	-	_	_	-	_	-	23	31	39	62	82	102	128

V-series (400V class)

Capacity	Hoist	Power								ower Sou						
(t) Motor	Motor (kW)	Source	0.75	1.25	2	3.5	5.5	mai Seci	14	a of Con	30	38	60	80	100	125
	1.0	380~415V 50Hz	54	90	144	252	0.0				- 00	- 00	- 00	- 00	100	
1/2		400V 60Hz	26	46	74	130										
.,_	1.2	440V 60Hz	56	94	150	264										
	1.9	380~415V 50Hz	_	48	76	133	209									
1	2.0	400V 60Hz	_	24	40	70	110									
•	2.3	440V 60Hz		50	80	140	222									
	2.9	380~415V 50Hz	_	_	41	72	113	165								
2	0.5	400V 60Hz	_	_	36	56	82	144								
	3.5	440V 60Hz	_	_	70	110	162	284								
(2.8)	4.2(4.0)	380~415V 50Hz	_	_	33	58	91	132								
`3		400V 60Hz	_	_	_	46	68	120								
	5(4.8)	440V 60Hz	_	_	_	92	132	232								
	5.9	380~415V 50Hz	_	_	_	40	62	91	159							
5	7	400V 60Hz	_	_	_	_	31	46	80	126						
	/	440V 60Hz	_	_	_	_	63	92	162	254						
	7.9	380~415V 50Hz	_	_	_	_	_	_	45	71	97	123				
7.5	0.5	400V 60Hz	_	_	_	_	_	_	54	84	116	146				
	9.5	440V 60Hz	_	_	_	_	_	-	52	82	112	144				
	8.8	380~415V 50Hz	-	_	-	_	_	-	45	71	97	123				
10	10.5	400V 60Hz	-	_	_	_	_	-	54	84	116	146				
	10.5	440V 60Hz	-	_	_	_	_	_	52	82	112	144				
	6.7×2	380~415V 50Hz	_	_	_	_	_	-	_	47	64	82	129			
15	8×2	400V 60Hz	-	_	_	_	_	_	_	57	78	98	156			
	0^2	440V 60Hz	_	-	_	_	_	-	_	54	72	92	146			
20	7.5×2	380~415V 50Hz	-	_	_	_	_	_	-	40	54	63	108			
	9×2	400V 60Hz	-	-	_	_	_	-	_	46	64	80	126			
30	3^2	440V 60Hz	_	-	_	_	_	_	_	46	62	78	124			

Standards and Applied Class to the Hitachi Hoists

	Structural Code fo (Japan)	or Cranes	Α	В	С	D	E	F			
Code in Each Standard	JIS C 9620 JIS B 8822-1		М3	M4	M5	М6	M7	M8			
	FEM 9.511		1Bm	1Am	2m	3m	4m	5m			
(1) Total Operating Time (Lifetime at full load h)	h ≤ 400	400 < h ≤ 800	800 < h ≦1600	1600< h ≤ 3200	3200< h ≤ 6300	6300< h ≤ 12500					
Hitachi's Specification	V-series Hoists						•				
intacin s specification	A-series Hoists						•				
Load Condition	Load Ratio				Mean operatin	g hour per day					
Light	K≦0.5		≦ 2	≦ 4	≦8	≦16	≥16	_			
Medium	0.5 <k≤0.63< th=""><th>≦ 1</th><th>≦2</th><th>≦4</th><th>≦8</th><th>≦16</th><th>≥16</th></k≤0.63<>		≦ 1	≦2	≦ 4	≦8	≦16	≥16			
Heavy	0.63 <k≦0.8< th=""><th></th><th>≦ 0.5</th><th>≦1</th><th>≦2</th><th>≦4</th><th>≦8</th><th>≦16</th></k≦0.8<>		≦ 0.5	≦1	≦2	≦ 4	≦8	≦16			
Severe	0.8 <k≦1< th=""><th></th><th>≦ 0.25</th><th>≦0.5</th><th>≦1</th><th>≦2</th><th>≦4</th><th>≦8</th></k≦1<>		≦ 0.25	≦0.5	≦1	≦2	≦ 4	≦8			
			25								
(2)Repetitive Rating Duty (% ED)		` '		30	40	50	60	60			
	Max. Starting Free	quency	150	180	240	300	360	360			
Hitachi's Specification	V-series Hoists		○ (●) 40% ED, 400 Starts/h								
•	A-series Hoists		○ (●) 25% ED, 250 Starts/h								
		Drum	14	16	18	20	22.4	25			
	FEM	Sheave	16	18	20	22.4	25	28			
(3)Ratio of		Equalizer sheave	12.5	14	14	16	16	18			
Wire Rope Dia. (d)		Drum	14	16	18	22.4	28	35.5			
to Sheave (D)	JIS Structural	Sheave	16	18	20	25	31.5	40			
	Code for Cranes Equalizer sheave		10	10	10	10	12.5	14			
Hitaahila Cuasifiaatian	V-series Hoists		Applicable to JIS (NA to FEM)								
Hitachi's Specification A-series Hoists			Applicable to JIS (NA to FEM)								
Applied Class to FEM stand (1) V-Series WR Hoists	aru		Between 2m and 3m								
(1) + 001103 11111101313	Detween Zill allu Sill										

^{*} Total operating time, repetitive rating are considered for the classification.

(2) A-Series WR Hoists

Ratio of the wirerope diameter to the sheave one, so called D/d, is exempted from the judgment, because the idea for the safety is different and the values are greatly different between JIS and FEM standard.

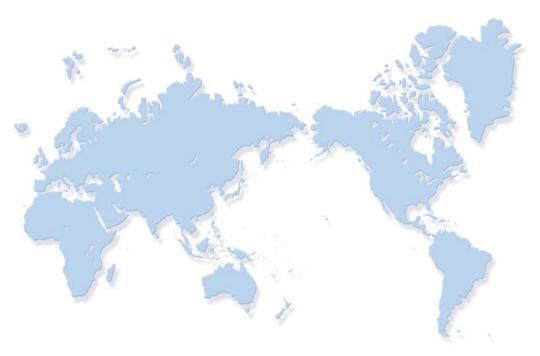
Between 1Am and 2m

Memo

Network

Hitachi Industrial Equipment Systems Co., Ltd. meets customers' needs through the total network which can supply speedy design, production, sales, service and engineering for industrial equipment and systems.

Global Sales Network



Asia China

Hitachi East Asia Ltd.

4th Floor, North Tower World Finance Centre, Harbour City, Canton Road, Tsim Sha Tsui, Kowloon Hong Kong. TEL: +852 2735-9218

FAX: +852 2735-6793

(Shanghai Office) (Hitachi (Shanghai) Trading Co., Ltd.)

18th Floor, Rui Jin Building No. 205, Maoming Road (S) Shanghai, 200020 TEL: +86 (21) 6472-1002 FAX: +86 (21) 6472-4990

(Taiwan Hitachi Asia Pacific Co., Ltd.)

3rd Floor, Hung Kuo Building No. 167 Tun-Hwa North Road, Taipei (105) Taiwan

TEL: +886 (2) 2718-3666 FAX: +886 (2) 2718-8180

Indonesia

Hitachi Asia Ltd. (Jakarta Office)

10th Floor, Mid Plaza 1, JL. Jend. Sudirman Kav. 10-11, Jakarta 10220 TEL: +62 (21) 574-4313 FAX: +62 (21) 574-4312

Singapore

Hitachi Asia Ltd.

24 Jurong Port Road, #03-05 Office Block, CWT Distripark Singapore 619097

TEL: +65 (6305) 7400 FAX: +65 (6305) 7401

Thailand

Hitachi Asia (Thailand) Co., Ltd.

18th Floor, Ramaland Building, 952 Rama IV Road Bangrak, Bangkok 10500

TEL: +66 (2) 632-9292 FAX: +66 (2) 632-9299

India

Hitachi India Trading Pvt. Ltd.

Units 304-306, 3rd Floor ABW Elegance Tower Jasola District Centre New Delhi-110025, India TEL: +91 (11) 4060-5252 FAX: +91 (11) 4060-5253

Philippine

Hitachi Asia Ltd. Philippine Branch

17th Floor, Oledan Square, 6788 Ayala Avenue, Makati City Philippines 1226

TEL: +63 (2) 886-9018 FAX: +63 (2) 887-3794

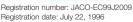
Information in this brochure is subject to change without notice.

For further information, please contact your nearest sales representative.









The Energy Saving Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained ISO 14001 certification, an international standard for environmental management systems



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

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