

Hitachi Hoists



Widely used to make cargo handling more efficient.

A wide range of applications are provided for not only general machinery, automobile, can manufacturing and other plants but also for applications from primary to tertiary industries including warehouses and retail stores.



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S series

Features

Standard Model

CE Marking Model

Introduction

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F series

Suspension type

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Others

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You can make an exacting model selection based on such operating conditions as capacity and speed.



S series Suitable for general work. Economical standard speed model. (P11-P16) Single speed model: S Dual speed model: SN Single phase model: SS, S1

F series	High-speed model th	at is stu	rdy and	suitable	for high	n-speed	work.		
(P17-P22)	Rated load 250kg I	500kg I	1t	2t	3t	5t 	10t	15t 	20t
Single speed mod	lel : F			0	0		0	0	0
Dual speed mode	I : FN				0		0	0	0

Trolley series									
	Rated load 250kg	500kg	1t I	2t	3t	5t	10t	15t	20t
Motorized trolley-ET series Single speed model : ET							SET×2	7.5ET×2	10ET×2
Motorized trolley-ST series Single speed model : ST									
Chain driven trolley : BC									
Manual driven trolley : BP									

Dedicated electric chain hoist contents

 Twin hook type electric chain hoist Low head room type • Optional power source electric chain hoist and trolley — 25

Optional control voltage model –

• Electric chain hoist with the Hi-plated chain — 25 Electric chain hoist with overload prevention unit (with OL) With geared limit switch (UDS) Other products with changed specifications

25 - 26

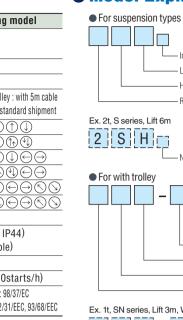
Lift change (extension), etc.

Standard Specifications

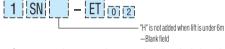
Specifications			Standard model	CE Making model
Power Source*	:		3 phase : 220/3	80-415V 50Hz
rower source			1 phase : 220-	240V 50Hz
Operation Meth	od		Operating	pushbutton
Control Voltage)		24	1V
Power Method			Suspension type with manual driven trol	ley or chain driven trolley : with 5m cable
rower method			With motorized trolley : cable and catch	are not included with standard shipment
	2(2)	single speed	$\bigcirc \bigcirc$	STOP ↑↓
	2(3)	dual speed	(h) (l)	STOP (h) (1)
Pushbutton	4(5)	single speed	$\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$	$(STOP) \uparrow \downarrow \bigcirc \bigcirc$
Switch		dual speed	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	STOP ⊕ ⊕
	6(7)	single speed	$\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$	$\boxed{\texttt{STOP}} \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{2} \textcircled{3} \textcircled{5} \textcircled{5}$
	0(1)	dual speed	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	$\boxed{\texttt{STOP}} \textcircled{1} \textcircled{2} \textcircled{2} \textcircled{3} \textcircled{5} \textcircled{5}$
Color(Munsell)			Orange(2.	5YR 6/12)
Electrical Prote	etion		IP54(S-series(1t and	above),Trolley : IP44)
LIEGITICAL FIOLE	CLIUII		(Equivalent when	stuffing drain hole)
Insulation Class	s of Moto	r		
Rating**			30%ED, 180starts/h(1 to	5S: 25%ED, 150starts/h)
Standards				Machinery : 98/37/EC
Gianuarus			_	EMC: 89/336/EEC, 92/31/EEC, 93/68/EEC

- * For power sources other than those listed, see the dedicated electric chain hoists (page25).
- ** This shows the value at a load of 63% of the rated load.
- ** Make sure the average value per hour is not exceeded even during concentrated use in a short time.
- ** Dual speed models have an added low speed to allow fine movement operation and improve workability by reducing inching. The rating shows the value when the high speed and the low speed, the operation time of which is 1/10 of the high speed, are combined.

Model Explanation



Ex. 1t. SN series. Lift 3m. With motorized trolley-ET



— Lift ("H" when 6 m or more) _ Hoist series

- No improved No.-Blank field

- Hoist improved No. Trollev series

Hoist series

* Separate product name plates are placed on the hoist unit

Ex. 1SN-ET₁₀₂: Hoist unit name plate "1SN" / Trolley unit name plate "1ET"

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)									
Load Condition	LUAU NAIIU	0.25	0.5	1	2	4	8				
Light	K≤0.5										
Medium	0.5 <k≤0.63< th=""><th></th><th></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>S, F</th><th>series</th><th></th></k≤0.8<>				S, F	series					
Severe	0.8 <k< th=""><th></th><th></th><th></th><th></th><th></th><th></th></k<>										

Load condition

: 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 Heavy 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.

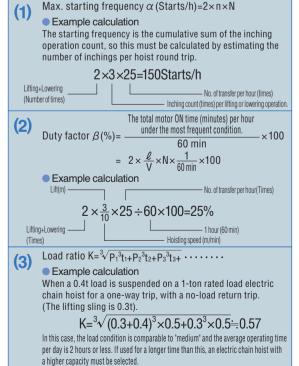
Operating environment

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

In addition to the general specifications, (1) starting frequency, (2) duty factor, and (3) load ratio must be taken into consideration.

Calculation method

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



n : Inching count (times) per lifting or lowering operation.

N : Transport count (times) within 1 hour

ℓ : Lift(m)

V : Hoisting speed(m/min)

Ratio of the operating time of each load to

Each load ratio (ratio of the load to each rated load

the total operating time

 $P_1, P_2, P_3 \cdots$:

Operating Conditions and Model Selection Method Select a model from the following that is suitable for the operating conditions.

Operatin	g Conditions	Main Unit	Trolley	Pushbutton Cable	Crane Saddle	Option
Suspension Type		S series F series	_	Power cable		
Manual Driven Trolley Type		P Selles	P16 BP series P22	Pushbutton cable		
Chain Driven Trolley Type			BC series P15 P21	2PB(H) For single speed 2PBN(H) For double speed		
Motorized Trolley Type			ET series ST series	4PB(H) 4PBN(H)		
Motorized Trolley Motorized Travel Type		P11 P17	P13, 14 P19, 20	6PB(H) 6PBN(H)		R.B.
Manual Driven Trolley Motorized Travel Type			P16 BP series P22	+	Crane saddle TL series	Crane girder switch unit (24V operation)
Chain Driven Trolley Motorized Travel Type			BC series P15	Wiring unit 4PB(H)-C 4PBN(H)-C	TLM series TH series THM series SL series SLM series	GMB-10

Pushbutton cable

- * The operation method is a pushbutton operation. Indirect 24V control voltage.
 * A power cable is not included with the trolley. Refer to the Power cable in the list below and prepare a suitable one.

Standard Model

	Type	Lift	Number of	Material of C	Cable	Pushbutton Switch					
	Type	(m)	Pushbutton Switch	For Pushbutton Cable	For Power Cable	r	i usinguttoff Owlith				
	2PB	3	2	T-VCT 3CX0.75mm ²	VCT 4CX2mm ²	Character	$\bigcirc \bigcirc \bigcirc$				
Eo.	2PBH	6	2	1-701 30/0.7311111	VOT 40XZIIIII	Contact	2a				
For Single Speed	4PB	3	4	T-VCT 5CX0.75mm ²		Character	$\bigcirc \bigcirc \bigcirc$	$\Theta\Theta$			
Type	4PBH	6	4	1-701 30/0.7311111	_	Contact	2a	2a			
Турс	6PB	3	6	T-VCT 8CX0.75mm ²		Character	$\bigcirc \bigcirc \bigcirc$	$\Theta\Theta$			
	6PBH	6	0	1-701 00/0.7311111	_	Contact	2a	2a	2a		
	2PBN	3	2	T-VCT 5CX0.75mm ²	VCT 4CX2mm ²	Character	⊕ ⊕				
Fo.,	2PBNH	6	4	1-701 30/0.7311111	VOT 40XZIIIII	Contact	4a+2b				
For Dual Speed	4PBN	3	4	T-VCT 6CX0.75mm ²		Character	⊕⊕	$\Theta\Theta$			
Type	4PBNH	6] 4	1-701 0000.75111111	_	Contact	4a+2b	2a			
1,100	6PBN	3	- 6	T-VCT 8CX0.75mm ²		Character	⊕⊕	$\Theta\Theta$	© (3)		
	6PBNH	6	0	1-101 00/0./3111111	_	Contact	4a+2b	2a	2a		

CE Version

	Tuno	Lift	Number of	Material of	Material of Cable			Pushbutton Switch					
	Type	(m)	Pushbutton Switch	For Pushbutton Cable	For Power Cable	r uəmbuttun əwitcii							
	3PBE	3	3	T-VCT 4CX0.75mm ²	VCT 4CX2mm ²	Character	(STOP)	$\bigcirc \bigcirc \bigcirc$					
Fa.,	ЗРВЕН	6	3		VG1 40AZIIIIII	Contact	1b	2a					
For Single Speed	5PBE	3	5	T-VCT 7CX0.75mm ²		Character	STOP	$\bigcirc \bigcirc \bigcirc$	$\Theta \Theta$				
Type	5PBEH	6	3	1-701 7000.73111111	_	Contact	1b	2a	2a				
1,40	7PBE	3	7	T-VCT 8CX0.75mm ²		Character	(STOP)	$\bigcirc \bigcirc \bigcirc$	$\Theta\Theta$	⊘ ⊘			
	7PBEH	6	<i>'</i>	1-701 00/0./3111111	_	Contact	1b	2a	2a	2a			
	3PBNE	3	3	T-VCT 5CX0.75mm ²	VCT 4CX2mm ²	Character	STOP	⊕ 🖤					
Fa.,	3PBNEH	6	3	1-701 3000.7311111	VG1 40AZIIIIII	Contact	1b	4a+2b					
For Dual Speed	5PBNE	3	5	T-VCT 7CX0.75mm ²		Character	(STOP)	⊕ 🕀	$\Theta\Theta$				
Type	5PBNEH	6) 3	1-701 7080.7311111	_	Contact	1b	4a+2b	2a				
.160	7PBNE	3	7	T-VCT 9CX0.75mm ²		Character	STOP	⊕ €	$\Theta\Theta$	Ø Ø			
-	7PBNEH	6	'	1-401 9000./3111111	_	Contact	1b	4a+2b	2a	2a			



Standard Specifications Quick Reference

Hoist main unit

Capacity	Hoisting 9	Speed (m/min)(50/60Hz)	Motor (kW)(50/60Hz)	Power	Ch	ain	Lift		See		Function	
(kg)		Main	Creep	Main	Creep	Source (phase)	Dia. (mm)	No. of falls	(m)	Type	page	Automatic Adjusting Brake	Reverse Phase Inspecting Relay	Auxiliary Brake System
250	Type Single	10/12		0.45/0.55	отеер	3	6.3	14113	3	1/4S ₂	11,12	Aujusting Drake	inspecting neray	Diake System
250	Single	10/12		0.45/0.55		3	6.3	1	6	1/4SH ₂	11,12			
250	Dual	7.2/8.5	1.8/2.1	0.43/0.33	0.08/0.1	3	6.3	1	3	1/4SN ₂	11,12			
250	Dual	7.2/8.5	1.8/2.1	0.32/0.38		3	6.3	1	6	1/4SNH ₂	11,12			
250	Single	5/6	1.0/2.1	0.25/0.3	0.00/0.1	1	6.3	1	3	1/4SN112	11,12			
250	Single	5/6		0.25/0.3		1	6.3	1	6	1/4SSH ₂	11,12			
500	Single	7.2/8.5		0.63/0.75		3	6.3	1	3	1/400112 1/2S ₂	11.12	_		_
500	Single	7.2/8.5	_	0.63/0.75	_	3	6.3	1	6	1/2SH ₂	11,12	_		_
500	Dual	7.2/8.5	1.8/2.1	0.63/0.75	0.16/0.19	3	6.3	1	3	1/2SN ₂	11,12	_		_
500	Dual	7.2/8.5	1.8/2.1			3	6.3	1	6	1/2SNH ₂	11,12			
500	Single	3.6/4.2		0.32/0.37	_	1	6.3	1	3	1/2SS ₂	11,12			_
500	Single	3.6/4.2		0.32/0.37	_	1	6.3	1	6	1/2SSH ₂	11,12			_
1,000	Single	4.6/5.5	_	0.8/1.0	_	3	7.1	1	3	1S	11,12	_	0	_
1,000	Single	4.6/5.5	_	0.8/1.0	_	3	7.1	1	6	1SH	11,12	_	Ö	_
1,000	Single	7.1/8.5	_	1.3/1.6	_	3	7.1	1	3	1F	17,18	0	0	0
1,000	Single	7.1/8.5	_	1.3/1.6	_	3	7.1	1	6	1FH	17,18	0	0	0
1,000	Dual	4.6/5.5	1.2/1.4	0.8/1.0	0.2/0.25	3	7.1	1	3	1SN	11,12	_	0	_
1,000	Dual	4.6/5.5	1.2/1.4	0.8/1.0	0.2/0.25	3	7.1	1	6	1SNH	11,12	_	0	_
1,000	Single	2.3/2.8	_	0.4/0.5	_	1	7.1	1	3	1S1	11,12	_		_
1,000	Single	2.3/2.8	_	0.4/0.5		1	7.1	1	6	1SH1	11,12	_		_
2,000	Single	2.3/2.8	_	0.8/1.0		3	7.1	2	3	2S	11,12	_	0	_
2,000	Single	2.3/2.8	_	0.8/1.0	_	3	7.1	2	6	2SH	11,12	_	0	_
2,000	Single	6.8/8.2	_	2.4/2.9		3	10	1	3	2F	17,18	0	0	0
2,000	Single	6.8/8.2	_	2.4/2.9	_	3	10	1	6	2FH	17,18	0	0	0
2,000	Dual	2.3/2.8	0.6/0.7	0.8/1.0	0.2/0.25	3	7.1	2	3	2SN	11,12	_	0	<u> </u>
2,000	Dual	2.3/2.8	0.6/0.7	0.8/1.0	0.2/0.25	3	7.1	2	6	2SNH	11,12	_	0	
2,000	Dual	6.8/8.2	1.7/2.0	2.4/2.9	0.6/0.7	3	10	1	3	2FN	17,18	0	0	0
2,000	Dual	6.8/8.2	1.7/2.0	2.4/2.9	0.6/0.7	3	10	1	6	2FNH	17,18	0	0	0
2,000	Single	1.1/1.4	_	0.4/0.5	_	1	7.1	2	3	2S1	11,12	_	_	_
2,000	Single	1.1/1.4		0.4/0.5	_	1	7.1	2	6	2SH1	11,12	_		
3,000	Single	1.5/1.8		0.8/1.0	_	3	7.1	3	3	3S	11,12	_	0	_
3,000	Single	1.5/1.8		0.8/1.0	_	3	7.1	3	6	3SH	11,12	_	0	
3,000	Single	4.1/4.9		2.4/2.9	_	3	10	2	3	3F	17,18	0	0	0
3,000	Single	4.1/4.9		2.4/2.9		3	10	2	6	3FH	17,18	0	0	0
3,000	Dual	4.0/4.8	1.0/1.2	2.4/2.9	0.6/0.7	3	10	2	3	3FN	17,18	0	0	0
3,000	Dual	4.0/4.8	1.0/1.2	2.4/2.9	0.6/0.7	3	10	2	6	3FNH	17,18	0	0	0
3,000	Single	0.8/0.9		0.4/0.5	_	11	7.1	3	3	3S1	11,12	_	_	_
3,000	Single	0.8/0.9	_	0.4/0.5	_	1	7.1	3	6	3SH1	11,12	_	_	
5,000	Single	0.9/1.1	_	0.8/1.0	_	3	7.1	5	3	5S	11,12	_	0	_
5,000	Single	0.9/1.1		0.8/1.0	_	3	7.1	5	6	5SH	11,12	_	0	_
5,000	Single	2.8/3.3		2.4/2.9	_	3	10	3	3	5F	17,18	0	0	0
5,000	Single	2.8/3.3	0.7/0.0	2.4/2.9		3	10	3	6	5FH	17,18	0	0	0
5,000	Dual	2.8/3.3	0.7/0.8	2.4/2.9	0.6/0.7	3	10	3	3	5FN	17,18	0	00	0
5,000	Dual	2.8/3.3	0.7/0.8	2.4/2.9	0.6/0.7	3	10	3	6	5FNH	17,18	0	0	0
5,000	Single	0.45/0.55		0.4/0.5	_	1	7.1	5	3	5S1	11,12	_	_	_
5,000	Single	0.45/0.55		0.4/0.5		1	7.1	5	6	5SH1	11,12	_	_	
10,000	Single	2.8/3.3	0.7/0.0	2.4/2.9×2	0.6/0.7.0	3	10	4	6	10FH	17,18	0	0	0
10,000	Dual	2.8/3.3	0.7/0.8	2.4/2.9×2	U.b/U./×2	3	10	4	6	10FNH	17,18	0	0	0
15,000	Single	1.8/2.2	0.45/0.55	2.4/2.9×2	0.6/0.7.0	3	10	6	6	15FH	17,18	0	0	0
15,000	Dual	1.8/2.2	0.45/0.55	2.4/2.9×2	U.0/U./×2	3	10	6	6	15FNH	17,18	0	0	0
20,000	Single	1.4/1.6		2.4/2.9×2		3	10	8	0	20FH	17,18	0	U	

Motorized trolley

Rated	Model	Traveling Sp	reed(m/min)	Applicable Beam Width	Min. Curve Radius	Page
Load	Name	50Hz	Hz 60Hz		(m)	Tayo
250kg-1t	1ET			75-125	1.5	
250kg-11	1ST			75-125	1.8	
2t	2ET				1.8	10 14
21	2ST	21 • 10.5	25 • 12.5	100-150	2.5	13, 14
2+	3ET			100-130	2.0	17, 18
3t -	3ST			3.0		
5t	5ET			125-175	3.0	

Chain driven trolley

Rated Load	Model Name	Applicable Beam Width (mm)	Min. Curve Radius (m)
250-500kg	1/2BC(H)	75-125	1.0
1t	1BC(H)	75-125	1.2
2t	2BC(H)	100-150	1.5
3t	3BCH	100-130	1.5
5t	5BCH	125-175	2.4

Crane saddle

Model Configuration	Max. Wheel Load (t)	Max. Span (m)	Traveling Speed (m/min)	Model Name	Main Unit Frame Structure
	1	10		TL5-10	Inverted hat
	2.8	12		TL5-28	cross-section structure
Toprun Type	1	10	21/25	TH₅-10	
Crane Saddle	2.8	12	21/23	TH₅-28	Double channel structure
Grane Saudie	1 3 16	(TH ₅ -10, TH ₅ -28			
	5.6	18		TH₅-56	Use uniform thickness channel steel)
	11.2	20	25/30	TH-112	
Suspension	0.6	10		SL-6	L-shaped frame structure
Crane Saddle	1	10	21/25	SL ₅ -10	Double channel structure
orane Saudie	2.8	12		SL ₅ -28	(SLs-10, SLs-28 Use uniform thickness channel steel)

Manual driven trolley

Rated Load	Model Name	Applicable Beam Width (mm)	Min. Curve Radius (m)
250-500kg	1/2BP	75-125	1.0
1t	1BP	75-125	1.2
2t	2BP	100-150	1.5

LONG LIFE BRAKE UNIT S F

Disk type Electro-Magnetic brake system for steady operation and long life.

AUTOMATIC ADJUSTING BRAKE

are equipped with patented Automatic Adjusting Brake for easier maintenance and added U.S. PAT. 3908802

Germany

PAT. 2354044





LIMIT SWITCH (Upper and Lower) S F

interrupt motor power to prevent hook overtravel and hazardous condition such as chain kink.

AUXILIARY BRAKE SYSTEM | F

F series hoists equipped with auxiliary brake.



PLUG-IN CABLES S F

reduce maintenance time and installation.

ELECTRO-MAGNETIC CONTACTOR S F

with mechanical-interlocking against line short by mechanical shock.

• REVERSE PHASE INSPECTING RELAY S F

cut control circuit when reverse phasing. Except the 3 phase models of 250 kg and 500 kg, and single phase models.

POWER CHAIN S F

special (patented) alloy steel chain surface hardened for optimum strength and wear resistance. (U.S. PAT. 3830054)

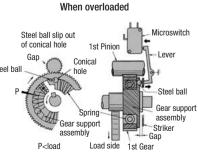
CHAIN CONTAINER S F

as standard part for safer operation.

is rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked. The 24 volt control circuit reduce shock hazard to the

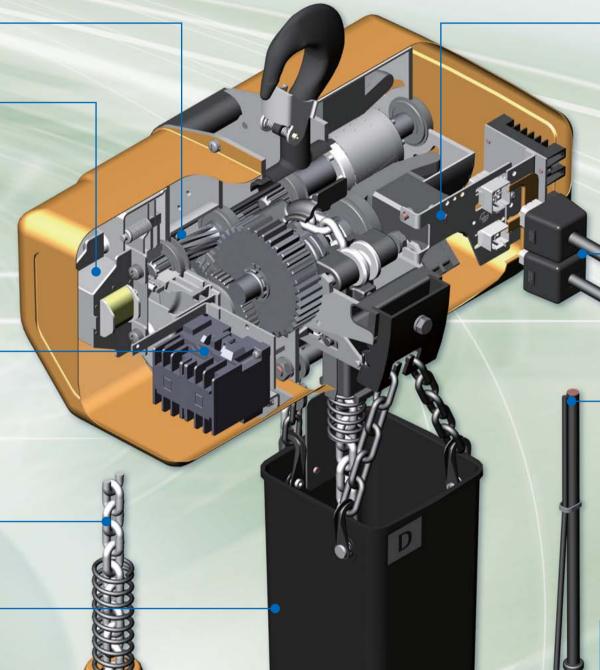
Unique, patented over load protection device is available on all

models upon request. U.S. PAT. 4103873 CANADA PAT. 1062232 Others



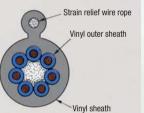
LOWER HOOK S F

is heat-treated and equipped with safety latch and 360° swivelling.



PUSHBUTTON CABLE S F

is molded with strain relief wire rope into one body. This assures easier and safer operation.



• HITACHI OVERLOAD LIMITER S option F option

Outline

AUXILIARY BRAKE SYSTEM | F

F series hoists equipped with auxiliary brake.

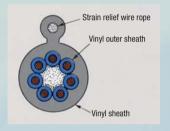


PLUG-IN CABLES S F

reduce maintenance time and installation.

PUSHBUTTON CABLE S F

is molded with strain relief wire rope into one body.
This assures easier and safer operation.



PUSHBUTTON SWITCH S F

is rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked. The 24 volt control circuit reduce shock hazard to the operation.

EMERGENCY STOP BUTTON

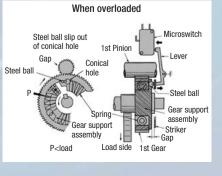
The chain hoist can be stopped in emergency cases that are caused by overdrive or erroneous operation.



HITACHI OVERLOAD LIMITER S F

Unique, patented over load protection device is available on all

models upon request. U.S. PAT. 4103873 CANADA PAT. 1062232 Others



HELICAL GEARING S F

used where practical to provide quiet operation.

LONG LIFE BRAKE UNIT S F

Disk type Electro-Magnetic brake system for steady operation and long life.

• AUTOMATIC ADJUSTING BRAKE | F

are equipped with patented Automatic Adjusting Brake for easier maintenance and added safety. U.S. PAT. 3908802

Germany

PAT. 2354044



ELECTRO-MAGNETIC CONTACTOR S F

with mechanical-interlocking against line short by mechanical shock.

• REVERSE PHASE INSPECTING RELAY S F

cut control circuit when reverse phasing. Except the 3 phase models of 250 kg and 500 kg, and single phase models.

POWER CHAIN S F

special (patented) alloy steel chain surface hardened for optimum strength and wear resistance. (DIN-5684-8)

CHAIN CONTAINER S F

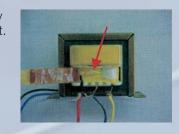
as standard part for safer operation.

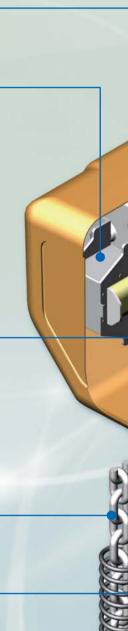
LOWER HOOK S F

is heat-treated and equipped with safety latch and 360° swivelling.

TRANSFORMER

Fuse is built in a primary side to prevent overheat.





Sseries

Electric chain hoist

Suspension type

Single speed model

Dual speed model

Single phase model



■ Specifications table

SINGLE SPEED

(3 phase 220/380-415V 50Hz) S(H)

Rated Load		(kg)	250	500	1,000	2,000	3,000	5,000	
Model Name			1/4S(H) ₂	1/2S(H) ₂	1S(H)	2S(H)	3S(H)	5S(H)	
Standard Lift		(m)			3(6)			
Hoisting Speed		(m/min)	10	7.2	4.6	2.3	1.5	0.9	
Motor Output		(kW)	0.45	0.63	0.8	0.8	0.8	0.8	
Link Chain	Dia.	(mm)	<i>ϕ</i> 6.3	φ6.3	φ 7.1	φ 7.1	φ 7.1	φ 7.1	
LIIIK GIIAIII	No. of F	alls	1	1	1	2	3	5	
Rating			30%	ED		25%	6 ED		
Control Voltage			24-27V						
Power Cord Ler	igth				5m				

DUAL SPEED

(3 phase 220/380-415V 50Hz) SN(H)

Rated L	oad (kg)	250	500	1,000	2,000					
Model Na	ame	1/4SN(H) ₂	1/2SN(H) ₂	1SN(H)	2SN(H)					
Standard	d Lift (m)		3(6)							
Hoisting S	peed (m/min)	7.2/1.8	7.2/1.8	4.6/1.2	2.3/0.6					
Motor 0	utput (kW)	0.32/0.08	0.63/0.16	0.8/0.2	0.8/0.2					
Link	Dia. (mm)	<i>∲</i> 6.3	<i>∲</i> 6.3	φ7.1	φ7.1					
Chain	No. of Falls	1	1	1	2					
Rating		25% ED 20/10% ED								
Control	Voltage	24-27V								
Power Co	ord Length	5m								

All dimensions and specifications are subject to change without notice.

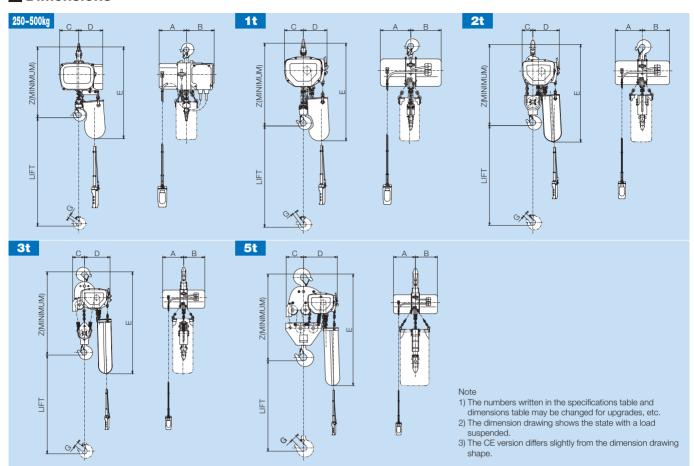
SINGLE PHASE

(1 phase 220-240V 50Hz) SS(H)2, S(H)1

, 1-			- , -	- (, ,	- ()			
Rated Lo	oad (kg)	250	500	1,000	2,000	3,000	5,000	
Model Na	ıme	1/4SS(H)2	1/2SS(H) ₂	1S(H)1	2S(H)1	3S(H)1	5S(H)1	
Standard	Lift (m)			3(6)			
Hoisting S _I	peed (m/min)	5	3.6	2.3	1.1	0.8	0.45	
Motor O	utput (kW)	0.25	0.32	0.4	0.4	0.4	0.4	
Link	Dia. (mm)	<i>∲</i> 6.3	<i>∲</i> 6.3	<i>ϕ</i> 7.1	<i>ϕ</i> 7.1	<i>∲</i> 7.1	<i>ϕ</i> 7.1	
Chain	No. of Falls	1	1	1	2	3	5	
Rating		25%	ED ED		20%	ED ED		
Control \	/oltage			24-	27V			
Power Co	ord Length	5m						

Suspension type

■ Dimensions



■ Specifications table

SINGLE SPEED

Model Name			1/4S ₂	1/4SH ₂	1/2S ₂	1/2SH ₂	18	1SH	28	2SH	38	3SH	58	5SH
Rated Load		(kg)	2	50	5	00	1,0	000	2,0	000	3,0	000	5,0	00
		Z	4:	50	4.	50	5	30	6	45	80	00	89	95
	A B C C	Α	18	31	18	181		216 216		216		216		
Dimensions		18	34	184		216 2		216 2		16	216			
			1:	25	125		1;	35	90		125		175	
DIIIIGIISIOIIS	(111111)	D	2 .00		165	1	70	215		270		34	10	
		D ₍ (CE)			200		170		215		270		34	10
		Е	6:	20	6:	20	6	30	705	775	835	1,050	1,065	1,095
		G	1	9	19		23		26		42		48	
Approx. Weight		(kg)	28	31	31	34	37	42	49	59	61	72	88	105

All dimensions and specifications are subject to change without notice.

	-		S	_		_	-
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_		 <i>7 –</i> 1		-			-

Model Nan	10	1/4SN ₂	1/4SNH2	1/2SN2	1/2SNH2	1SN	1SNH	2SN	2SNH
Rated Load	(kg)	2	50	500		1,000		2,000	
	Z	4	50	4	50	530		64	15
	Α	183		18	33	216 216			16
	В	210		2	10	24	246 246		
Dimensions	С	125		12	25	13	35	9	0
(mm)	D	18	35	185		170		215	
	D ₍ (CE)	20	00	20	00	170		2	15
	Е	62	20	62	20	680		705	775
	G	1	9	1	9	23		26	
Approx. Weight	(kg)	33	36	36	39	42	47	54	64

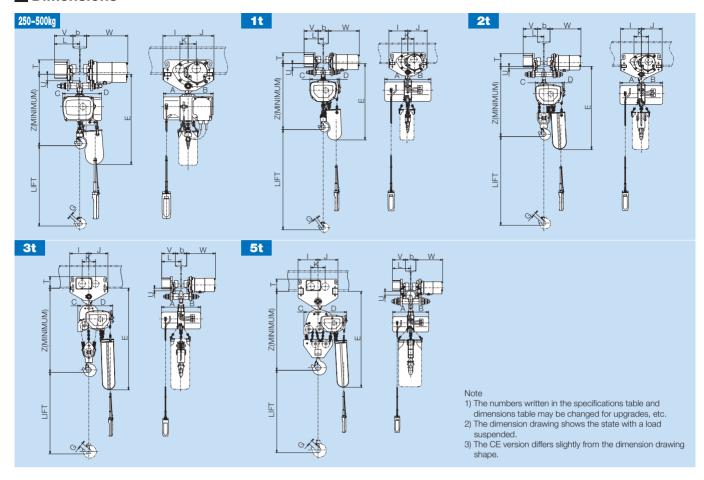
SINGLE PHASE

Model Name		1/4882	1/4SSH2	1/2\$\$2	1/2SSH2	181	1SH1	2S1	2SH1	3\$1	3SH1	581	5SH1
Rated Load	(kg)	25	50	50	00	1,0	00	2,0	000	3,0	00	5,0	000
	Z	45	450		450		30	6	45	80	00	89	95
	Α	18	31	181		24	16	24	46	24	16	24	16
	В	21	210		10	246		246		24	246		16
Dimensions	С	125		12	25	135		9	0	12	25	17	75
(mm)	D	16	165		35	17	70	2	15	27	70	34	40
	D ₁ (CE)	20	00	200		17	70	2	15	27	70	34	40
	Е	62	20	62	20	680		705	775	835	1,050	1,065	1,095
	G	1	9	1	19		3	2	6	4	2	4	8
Approx. Weight	(kg)	34	37	34	34 37		44	51	61	63	74	90	107

With motorized trolley-ET

This can be combined with a 4-point or 6-point pushbutton and used as a motorized trolley or overhead traveling crane.

Dimensions



■ Specifications table

Chain Hoist Mo	del Name	1/4S(H) ₂	1/4SN(H) ₂	1/2S(H) ₂	1/2SN(H) ₂	1S(H)	1SN(H)	2S(H)	2SN(H)	3S(H)	5S(H)
Trolley Type				1	ET			21	T	3ET	5ET
Rated Load	(kg)	2	50	5	00	1,0	000	2,0	100	3,000	5,000
	Z	523	523	523	523	600	600	700	700	865	984
	А	181	183	181	183	216	216	216	216	216	216
	В	184	210	184	210	216	246	216	246	216	216
	С	125	125	125	125	135	135	90	90	125	175
	D	165	185	165	185	170	170	215	215	270	340
	D'(CE)	200	200	200	200	170	170	215	215	270	340
Dimensions	Е	693	693	693	693	750	750	770(840)		910(1,125)	1,170(1,200)
	G	19	19	19	19	23	23	26	26	42	48
(mm)	I			1	85			2	10	210	240
	J			1	90			2	10	210	240
	K			1:	20			14	18	148	173
	L			1	82			20	00	203	219
	T			1	10			14	10	140	156
	U			3	8			1	8	16	34
	V			1:	59			17	72	175	181
	W			3	03			3.	13	316	323
Min.Curve Radi	us (m)			1.5 1.8 2.0		3.0					
Applicable Bean	am Width b (mm) 75–125 100–150			125-175							
Approx.Weight	(kg)	66(69)	71(74)	69(72)	74(77)	75(80)	80(85)	101(111)	106(116)	121(132)	174(191)

All dimensions and specifications are subject to change without notice.

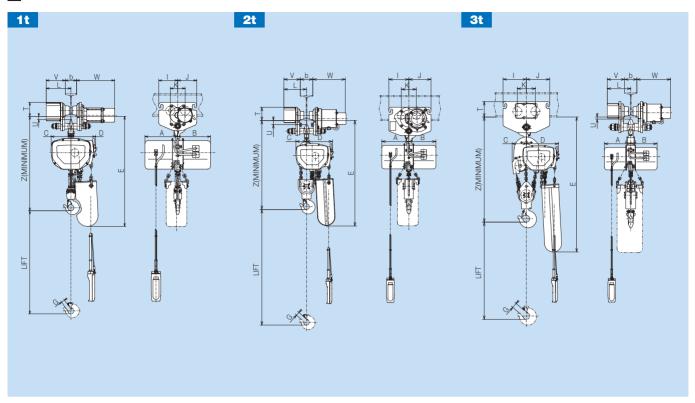
■ Motorized trolley unit specifications table

Series Name		ET series					ST series		
Model Name		1ET	1ET 2ET 3ET 5ET			1ST	2ST	3ST	
Working Load Limit	(kg)	1,000	1,000 2,000 3,000 5,000				2,000	3,000	
Travelling Spead	(m/min)		10.5	(21)			10.5		
Motor Output	(kW)	0.14(0.27)	0.30	0.6)	0.07	0.14	0.2	
Applicable Beam Width b	(mm)	75-125	100-150 125-175			75-125	100-	-150	
Rating		25%ED 25%ED							

With motorized trolley-ST

This can be combined with a 4-point or 6-point pushbutton and used as a motorized trolley or overhead traveling crane.

Dimensions



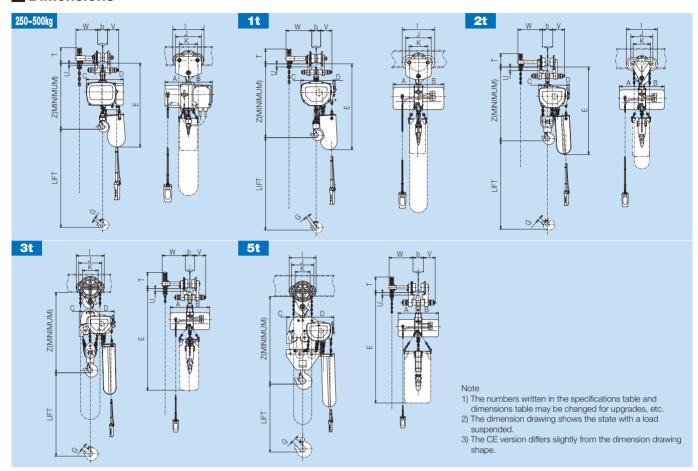
■ Specifications table

Chain Hoist Mo	del Name	1S(H)	1SN(H)	2S(H)	2SN(H)	3S(H)
Trolley Type		18	ST	2	ST	3ST
Rated Load	(kg)	1,0	100	2,	000	3,000
	Z	578	578	700	700	852
	A	216	216	216	216	216
	В	216	246	216	246	216
	C	135	135	90	90	125
	D, D'(CE)	170	170	215	215	270
	E	730	730	772	(842)	900(1,115)
Dimensions	G	23	23	26	26	42
Dimensions (mm)	I	12	25	10	60	192
()	J	12	25	1	77	192
	K	9	8	1:	20	148
	L	15	56	10	63	180
	T	10)1	1	19	140
	U	1	8	1	19	5
	V	13	30	1:	35	145
	W	25	55	2	70	280
Min.Curve Radio	us (m)	1.	.8	2	5	3.0
Applicable Bean	n Width b (mm)	75-	100	100-	-150	100-150
Approx.Weight	(kg)	60(65)	65(70)	86(96)	91(101)	109(120)

With chain driven trolley-BC

The electric chain hoist with chain driven trolley is suitable for relatively heavy loads not transported a long distance.

Dimensions



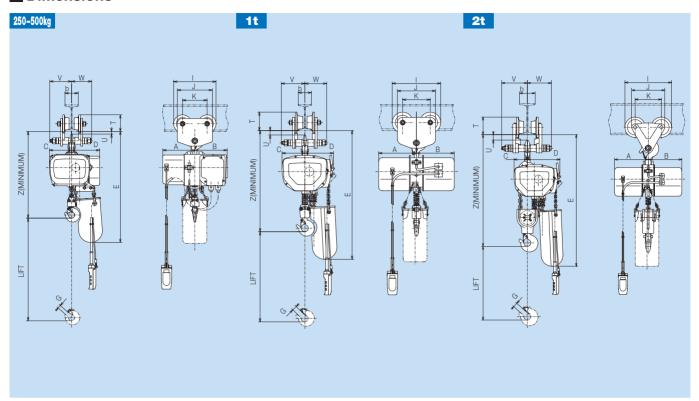
■ Specifications table

Chain Hoist Mo	del Name	1/4S(H) ₂	1/4SN(H) ₂	1/2S(H) ₂	1/2SN(H) ₂	1S(H)	1SN(H)	2S(H)	2SN(H)	3SH	5SH
Trolley type			1/2B	C(H)		1B(C(H)	2B(C(H)	3BCH	5BCH
Rated Load	(kg)	2	50	5	00	1,0	000	2,0	100	3,000	5,000
	Z	513	513	513	513	585	585	703	703	866	980
	A	181	183	181	183	216	216	216	216	216	216
	В	184	210	184	210	216	246	216	246	216	216
	С	125	125	125	125	135	135	90	90	125	175
	D	165	185	165	185	170	170	215	215	270	340
	D'(CE)	200	200	200	200	170	170	215	215	270	340
	Е	685	685	685	685	740	740	775(845)	1,130	1,190
Dimensions	G	19	19	19	19	23	23	26	26	42	48
(mm)	1		24	2		2	77	30	00	306	319
	J		19	9		2	18	2	13	240	262
	K		13	9		1	58	16	69	172	177.2
	L		_	-		_	_	_	_	_	_
	T		12	9		13	31	14	13	191	194
	U		13	3		2	3	2	2	21	30
	V		12	.4		1:	35	16	35	173	200
	W		18	8		2:	20	23	36	252	284
Min. Curve Radi	adius (m) 1.0		0		1	.2	1.5		1.5	2.4	
Applicable Bean	m Width b (mm)		75-	125		75-	-125	100-150		100-150	125-175
Approx. Weight	(kg)	44(50)	49(55)	47(53)	52(58)	58(66)	63(71)	73(86)	78(91)	116	161

With manual driven trolley-BP The electric chain hoist with manual driven trolley is suitable for relatively light loads transported a short distance.

Szeriez

Dimensions



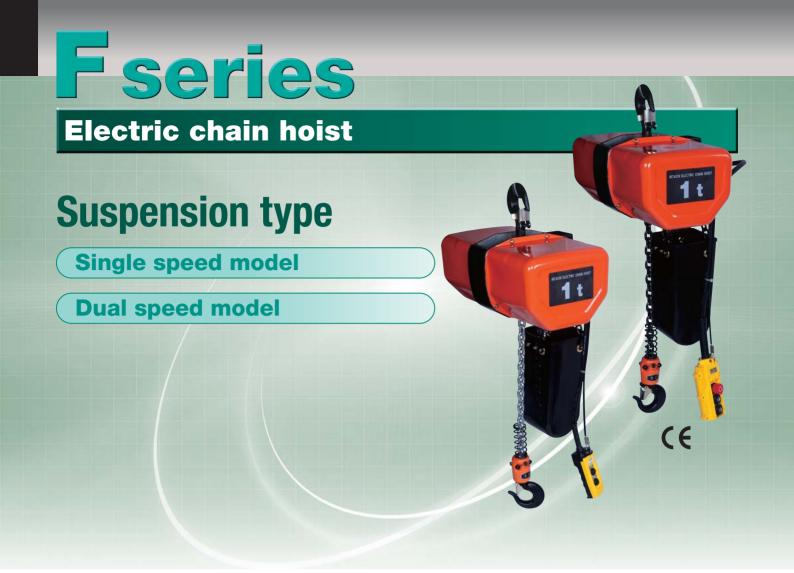
■ Specifications table

Chain Hoist Mo	del Name	1/4S(H) ₂	1/4SN(H) ₂	1/2S(H) ₂	1/2SN(H) ₂	1S(H)	1SN(H)	2S(H)	2SN(H)
Trolley type			1/2	BP		11	3P	2	ВР
Rated Load	(kg)	2	50	5	00	1,0	000	2,000	
	Z	513	513	513	513	585	585	703	703
	А	181	183	181	183	216	216	216	216
	В	184	210	184	210	216	246	216	246
	С	125	125	125	125	135	135	90	90
	D	165	185	165	185	170	170	215	215
	D'(CE)	200	200	200	200	170	170	215	215
	E	685	685	685	685	740	740	775	(845)
Dimensions	G	19	19	19	19	23	23	26	26
(mm)	[24	12		2	77	3	00
	J		19	99		19	99	2	13
	K		13	39		1:	39	1	69
	L		_	_		_	_	-	<u> </u>
	T		9	8		1	10	1	28
	U		1	3		2	3	2	22
	V		12	24		1;	35	1	65
	W		1	14		1:	25	1	55
Min.Curve Radiu	ıs (m)		1	.0	•	1	.2	1	.5
Applicable Beam	n Width b (mm)		75-125 75-125		100-150				
Approx.Weight	(kg)	38(41)	43(46)	41(44)	46(49)	52(57)	57(62)	66(76)	71(81)

■ Chain driven trolley, manual driven trolley specifications table

Classification			Chain driven trolley Manual driven trolle						olley
Model Name		1/2BC(H)	1BC(H)	2BC(H)	3BCH	5BCH	1/2BP	1BP	2BP
Working Load Limit	(kg)	500	1,000	2,000	3,000	5,000	500	1,000	2,000
Standard Lift	(m)	3(6)	3(6)	3(6)	6	6	_	_	_
Min. Curve Radius	(m)	1.0	1.2	1.5	1.5	2.4	1.0	1.2	1.5
Applicable Beam Width b	(mm)	75-	125	100-	-150	125-175	75-125		100-150

For a crane that uses a chain or manual driven trolley for transverse movement and an electric motor for travel, please purchase a 4PB(H)-C, 4PBN(H)-C type wiring unit (See page 23).



■ Specifications table

SINGLE SPEED

(3 phase 220/380-415V 50Hz) F(H)

Rated Load		(kg)	1,000	2,000	3,000	5,000	10,000	15,000	20,000
Model Name			1F(H)	2F(H)	3F(H)	5F(H)	10FH	15FH	20FH
Standard Lift		(m)		3((6)	•		6	
Hoisting Speed		(m/min)	7.1	6.8	4.1	2.8	2.8	1.8	1.4
Motor Output		(kW)	1.3		2.4	•	2.4×2		
Link Chain	Dia.	(mm)	<i>ϕ</i> 7.1	φ 10					
LIIK GIIAIII	No. of F	alls	1	1	2	3	4	6	8
Rating						30% ED		•	
Control Voltage						24-27V			
Power Cord Len	igth					5m			

DUAL SPEED

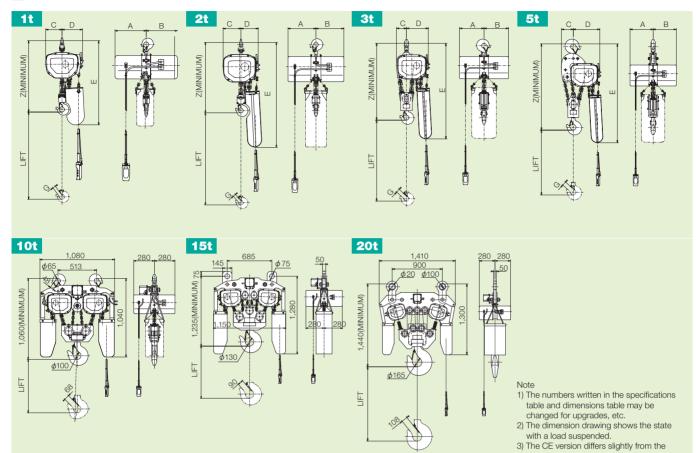
(3 phase 220/380-415V 50Hz) FN(H)

Rated Load	(kg)	2,000	3,000	5,000				
Model Name		2FN(H)	3FN(H)	5FN(H)				
Standard Lift	(m)		3(6)					
Hoisting Speed	(m/min)	6.8/1.7	4.0/1.0	2.8/0.7				
Motor Output	(kW)		2.4/0.6					
Link Chain	Dia. (mm)		φ 10					
LIIIK GIIAIII	No. of Falls	1	2	3				
Rating	•		20/10% ED					
Control Voltage			24-27V					
Power Cord Len	gth	5m						

dimension drawing shape.

Suspension type

■ Dimensions



■ Specifications table

SINGLE SPEED

Model Name			1F	1FH	2F	2FH	3F	3FH	5F	5FH	
Rated Load	d (kg)		1,000		2,0	000	3,0	000	5,0	5,000	
		Z	535		60	660		820		1,020	
		Α	25	50	28	30	28	80	2	80	
E		В	250		28	30	280		280		
Dimensions	(mm)	С	135		17	75	120		145		
		D	17	70	17	70	24	45	3	30	
		Е	68	30	845	1,060	1,090	1,100	1,295	1,305	
		G	23		2	26		42		48	
Approx. Weight		(kg)	42	47	80	87	99	113	121	142	

All dimensions and specifications are subject to change without notice.

DUAL SPEED

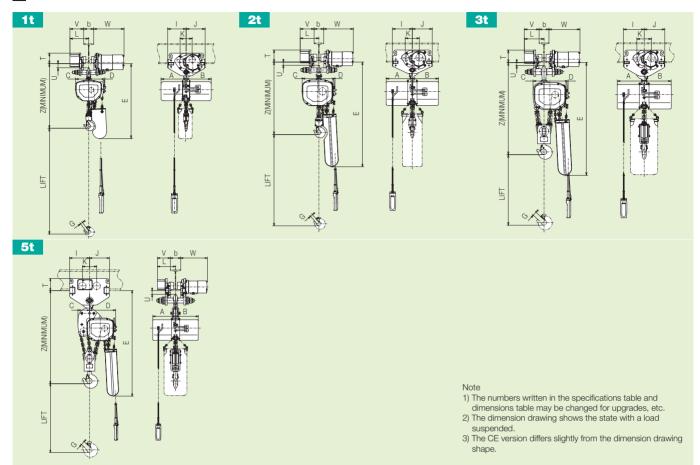
Model Name			2FN	2FNH	3FN	3FNH	5FN	5FNH	
Rated Load		(kg)	2,0	00	3,0	00	5,0	00	
		Z	66	0	82	0	1,0	20	
		Α	28	0	28	10	280		
		В	33	0	33	0	33	0	
Dimensions	(mm)	С	17	175 120		0	145		
		D	17	0	24	5	33	0	
		Е	845	1,060	1,090	1,100	1,295	1,305	
		G	26		4:	2	48		
Approx. Weight		(kg)	96	102	112	126	146	167	

All dimensions and specifications are subject to change without notice.

With motorized trolley-ET

This can be combined with a 4-point or 6-point pushbutton and used as a motorized trolley or overhead traveling crane.

Dimensions



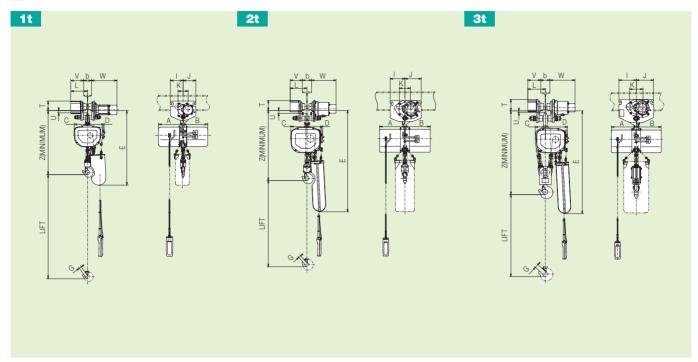
■ Specifications table

Chain Hoist Mo	del Name	1F(H)	2F(H)	2FN(H)	3F(H)	3FN(H)	5F(H)	5FN(H)
Trolley Type		1ET		ET		ET		ET
Rated Load	(kg)	1,000	2,0	000	3,0	3,000		000
	Z	604	715	715	882	882	1,112	1,112
	A	250	280	280	280	280	280	280
	В	250	280	330	280	330	280	330
	С	135	185	185	120	120	145	145
	D	170	170	170	245	245	330	330
	Е	750	945(1,125)	1,1300	1,185)	1,4	410
Dimensions	G	23	26	26	42	42	48	48
Dimensions (mm)	I	185	210		2	10	2	40
(11111)	J	190	2	10	2	10	2	40
	K	120	14	48	14	18	1	73
	L	182	20	00	20	03	2	19
	Т	110	14	40	14	10	1:	56
	U	38	1	8	1	6	3	34
	V	159	17	72	17	75	1	81
	W	303	3	13	3	16	3	23
Min. Curve Radi	ius (m)	1.5	1	.8	2	.0	3	.0
Applicable Bean	n Width b (mm)	75-125	100-	-150	100-	-150	125-175	
Approx. Weight	(kg)	80(85)	132(139)	147(154)	161(175)	176(190)	217(238)	232(253)

With motorized trolley-ST

This can be combined with a 4-point or 6-point pushbutton and used as a motorized trolley or overhead traveling crane.

Dimensions



■ Specifications table

Chain Hoist Mo	del Name	1F(H)	2F(H)	2FN(H)	3F(H)	3FN(H)
Trolley Type		1ST	25	ST	38	T
Rated Load	(kg)	1,000	2,0	100	3,0	00
	Z	582	715	715	872	872
	A	250	280	280	280	280
	В	250	280	330	280	330
	С	135	185	185	120	120
	D	170	170	170	245	245
	Е	725	935(1,115)		1,110(1	,165)
Dimoneione	mensions G	23	26 26		42 42	
(mm)	I	125	16	0	19	2
, ,	J	125	17	7	19	2
	K	98	12	0	14	8
	L	156	16	3	18	0
	T	101	11	9	14	0
	U	18	19	9	5	
	V	130	13	5	14	5
	W	255	27	0	28	0
Min. Curve Radi	us (m)	1.8	2.	5	3.	0
Applicable Bean	, ,	75-125	100-	-150	100-	150
Approx. Weight	(kg)	66(71)	117(124)	132(139)	140(161)	155(176)

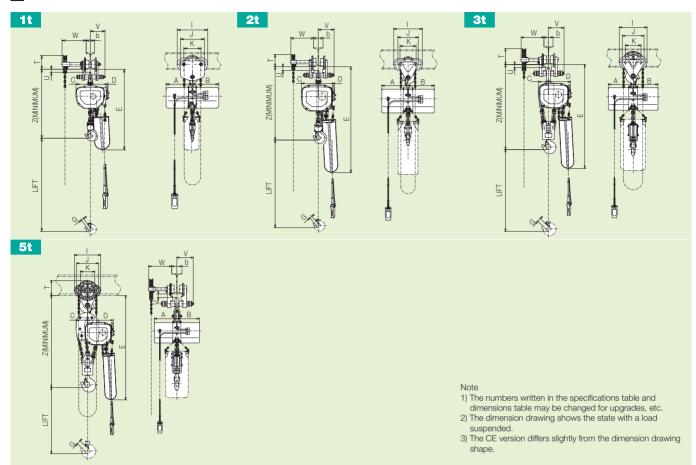
■ Motorized trolley specifications

Series Name			ET so	eries			ST series		
Model Name		1ET	2ET	2ET 3ET		1ST	2ST	3ST	
Working Load Limit	(kg)	1,000	2,000 3,000 5,000			1,000	2,000	3,000	
Travelling Spead	(m/min)		10.5	(21)			10.5		
Motor Output	(kW)	0.14(0.27)	0.3(0.6)	0.07	0.14	0.2	
Applicable Beam Width b	(mm)	75-125	100-150 125-175			75-125	100-150		
Rating		25%ED					25%ED		

With chain driven trolley-BC

The electric chain hoist with chain driven trolley is suitable for relatively heavy loads not transported a long distance.

Dimensions



■ Specifications table

Chain Hoist Mo	del Name	1F(H)	2F(H)	2FN(H)	3FH	3FNH	5FH	5FNH	
Trolley type		1BC(H)	2BC(H)		ЗВСН		5B	5BCH	
Rated Load (kg)		1,000	2,000		3,	3,000		5,000	
	Z	600	717	717	886	886	1,105	1,105	
	Α	250	280	280	280	280	280	280	
	В	250	280	330	280	330	280	330	
	С	135	175	175	120	120	145	145	
	D	170	170	170	245	245	330	330	
	Е	740	1,130	1,130	1,180	1,180	1,405	1,405	
Dimensions	G	23	26	26	42	42	48	48	
(mm)	I	277	300		306		3	19	
, ,	J	218	213		240		262		
	K	158	169		172		177.2		
	L	_	_		_		_		
	Т	131	14	43	1	91	194 30		
	U	23	2	.2	2	21			
	V	135	10	65	1	73	200		
	W	220	2:	36	2	52	2	84	
Min. Curve Radius (m)		1.2	1	.5	1.5		2.4		
Applicable Bean	n Width b (mm)	75-125	100-	-150	100-150		125-175		
Approx. Weight	(kg)	63(71)	104(114)	120(129)	157	170	198	223	

With manual driven trolley-BP

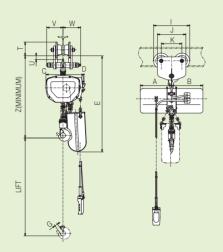
The electric chain hoist with manual driven trolley is suitable for relatively light loads transported a short distance.

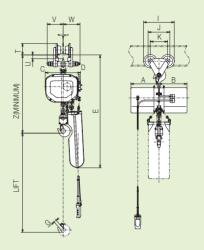


Dimensions

1t

2t





■ Specifications table

Chain Hoist Mo	del Name	1F(H)	2F(H)	2FN(H)	
Trolley type		1BP	2	2BP	
Rated Load	(kg)	1,000	2	,000	
	Z	600	717	717	
	A	250	280	280	
	В	250	280	330	
	С	135	175	175	
	D	170	170	170	
	E	740	1,130	1,130	
Dimensions	G	23	26	26	
(mm)	I	277	300		
, ,	J	218		213	
	K	158	169		
	L	<u> </u>		_	
	T	110		128	
	U	23		22	
	V	125		155	
	W	135		165	
Min. Curve Radi	us (m)	1.2		1.5	
Applicable Bean	n Width b (mm)	75-125	100)—150	
Approx. Weight	(kg)	57(62)	97(104)	113(119)	

■ Chain driven trolley, manual driven trolley specifications table

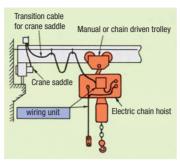
Classification			Chain driv	Manual driven trolley			
Model Name		1BC(H)	2BC(H)	3BCH	5BCH	1BP	2BP
Working Load Limit	(kg)	1,000	2,000	3,000	5,000	1,000	2,000
Standard Lift	(m)	3(6)	3(6)	6	6	_	_
Min. Curve Radius	(m)	1.2	1.5	1.5	2.4	1.2	1.5
Applicable Beam Width b	(mm)	75-125	100-	– 150	125-175	75-125	100-150

For a crane that uses a chain or manual driven trolley for transverse movement and an electric motor for travel, please purchase a 4PB(H)-C, 4PBN(H)-C type wiring unit (See page 23).

Crane wiring unit

4-point pushbutton crane wiring unit

- This is a wiring unit for connecting to the crane electro-magnetic switch and the hoist main unit.
- Connection can be done simply by just attaching to the hoist main unit.
- A unique HITACHI operation cable with a single protective wire provides excellent operability and durability.
- The pushbutton is made of drip-proof hardened plastic.
- The pushbutton cable employs a onetouch outlet to allow it to be connected easily.



Specifications table

The product is a wiring unit that combines an electric chain hoist with an crane saddle for use with manual traverse (manual or chain driven trolley) and motorized travel 4-point pushbutton cranes.

For single speed models

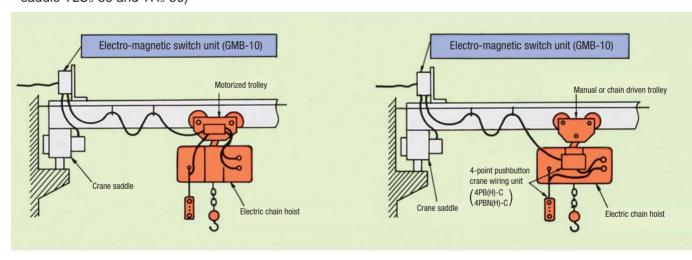
Model Name	4PB-C	4PBH-C
Lift	3m	6m
Approx. Weight	3kg	3.5kg

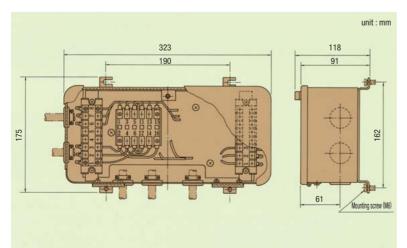
For double speed models

Model Name	4PBN-C	4PBNH-C
Lift	3m	6m
Approx. Weight	3.5kg	4kg

Electro-magnetic switch unit with crane case

- This is the electro-magnetic switch unit with a case for girder operation (24V) for when a HITACHI electric chain hoist (with motorized trolley) is used in a crane girder system. (Applicable up to HITACHI crane saddle TLU₅-56 and TH₅-56)
- Install in a freely selected location of the girder system, and the transition cables for girder and trolley, and the power cable are connected to the terminal block.





Specifications table

Model I	Name	GMB-10
Floring money.	Type	HMU-12
Electro-magnetic Contactor	Control Voltage	24V
Contactor	Current Capacity	10A
Approx. \	Weight	4kg

Dedicated electric chain hoist

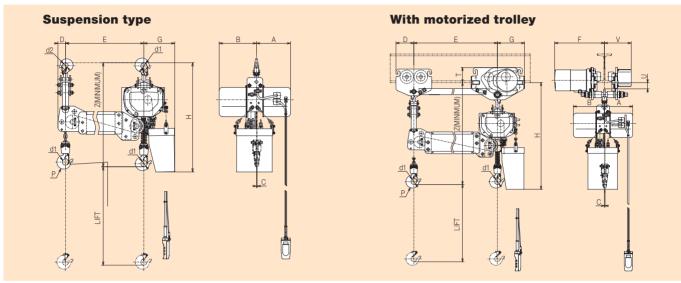


Twin hook type electric chain hoist

The HITACHI twin hook type electric chain hoist is a two-chain, two-hook type with two chain hoists in the same sprocket axis. Since there is 1 chain hoist drive, the load is kept level during hoisting. This is optimal for long items that must be hoisted from 2 points and cargo that must be kept level.



Dimensions



Specifications table

	Model (main unit)	1/4SHT	1/2SHT	1SHT		1FHT			2FHT	
				212			246			286	
		В		252			286			339	
		С		5			5			6	
		D		125(48)			125(48)		125(61)		
Dimensions	(mm)	<i>∲</i> d₁		40					45		
סוווופווסוטווס	(mm)	φ d₂		35.5 40							
		Е		sions differ slightly.							
		F	341	353	366	341	353	366	363	375	388
		G	190(170)				190(170)	210(170)		
		V	174	187	199	174	187	199	196	209	221
	With Motorized	Н	837	836	834	837	836	834	992	989	980
	Trolley	Z	744	743	741	744	743	741	877	874	865
Suspension		Н	765				765 765		925		
Z			672				672			810	
Applicable E	Beam Width	(mm)	75-125				75-125		100-150		

^{*}The suspension type is shown in parentheses ().

Basic specifications table

Model (main unit)		1/4SHT	1/2SHT	1SHT	1FHT	2FHT			
Rated Load			125kg×2	250kg×2	500kg×2	500kg×2	1t×2		
Standard Lift	(m)				6				
Hoisting Speed	(m/min)		9.2	7.1	4.6	7.1	6.8		
Traveling Speed	(m/min)				10.5				
Hoisting Motor	(kW)		0.4	0.65	0.8	1.3	2.4		
Hoisting Motor	(KVV)	(KVV)	No. of poles			2			
Traveling Motor	(kW)				0.14				
maveling word	(KVV)	No. of poles			4				
Link Chain	(di	a./falls)		φ7.1×2 φ10×2					

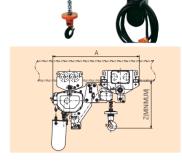
 ^{*} A load must always be applied to the lower hook P side, so please inform HITACHI when a original sling will not be used.

Dedicated electric chain hoist

Low head room type

The HITACHI low head room type has a smaller Z dimension (minimum distance between the rail bottom surface and the lower hook) making it effective for work that hoists the cargo as high as possible in structures with a low ceiling.

Hoist type	1/2SL	1SL	1FL	2FL	2.8FL	1/2SNL	1SNL	2FNL	2.8FNL	
Trolley type		1ET		2ET	3ET	16	: 1	2ET	3ET	
Hoisting Speed (m/min)	7.1	4.6	7.1	6.8	4.1	7.1/1.8	4.6/1.2	6.8/1.7	4.1/1.0	
Traveling Speed (m/min)		10.5					10.5			
Control Voltage(V)	24				24					
Link Chain Diameter	φ7.1	φ7.1	φ7.1	φ10	φ10	φ7.1	φ7.1	φ10	φ10	
No. of falls	1	1	1	1	2	1	1	1	2	
Dimensions Z	440	440	440	552	680	440	440	552	680	
(mm) A	846	846	846	1,080	1,160	846	846	1,080	1,160	



Optinal power source electric chain hoist and trolley

When the power source specifications differ, the following power source products will be manufactured.

50Hz	240V, 346V, 440V, 500V
60Hz	230V, 380V, 440V, 460V, 550V

Eclectic chain hoist with the Hi-plated chain

This comes with a corrosion-resistant Hi-plated chain. The chain specifications and strength are those of a power chain.

Hi-plated chain	Electroless nickel plating (Chemical resistance strengthening treatment, Plating thickness 8 $\mu m)$

Optional control voltage model

The HITACHI electric chain hoist control voltage is 24V, but products with a specified operating voltage can be manufactured when they must match the voltage of other devices.

Control voltage 100V 50/60Hz, 200V 50/60Hz

Eclectic chain hoist with overload prevention unit (with OL)

The HITACHI electric chain hoist that employs an "overload protection unit" was produced in response for demand for increased safety.

*Lowering operation is possible after the overload prevention device operates First push the lowering button once before beginning the operation.

Features

- Allows cargo handling work while preventing overloading.
- The operation load remains stable even after repeated operation.
- This devices was designed to avoid excessive shocks to ensure a long useful life.
- It is an electromechanical type, so it can support optional power source specifications.

With geared limit switch (UDS)

Operation principles

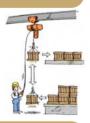
Operation of the detection unit built into the reduction gear shuts off the hoist operation circuit. This is HITACHI's unique "overload prevention unit". It detects overload operation and then stops operation while keeping the load hoisted.



Operation load : 110 to 140%

- This type has a built-in switch (UDS switch) that allows the upper and lower limit stop positions to be freely set and that outputs signals of a mid points and other locations by detecting the motor speed.
- From 2 to 8 contacts is possible.

2 of the contacts are used for the upper and lower limit switches. Unless otherwise specified, both the upper and lower limits are set at the time of shipment to be activated approximately 100 mm in front of the limit switch built into the main unit.



Traverse double speed motorized trolley series

This is suitable for applications requiring a stop system and efficient operation.

Specifications table

Trolley type	1ETN	2ETN	3ETN	5ETN
Rated load	1t	2t	3t	5t
Rating				
Applicable Beam Width (mm)	75-125 100-150			125-175

For a speed ratio of 4:1

Trolley	type	1ETN	2ETN	3ETN	5ETN					
Traveling Speed (m/min)		21/5.3								
Motor Output		0.27	/0.07	0.6/	0.15					
(kW)	No. of poles		2/8							

For a speed ratio of 2:1

Trolley	type	1ETN	1ETN 2ETN 3ETN 5ETN							
Traveling Speed	(m/min)	21/10.5								
Motor Output		0.27/0.14 0.6/0.3								
(kW)	No of noise	2/4								

- *When specifying a transverse double speed motorized trolley, the pushbutton switch configuration differs depending on whether the hoist unit and travel crane saddle are single speed or double speed, so contact HITACHI.
- *The total value for low speed and high speed is shown for the rating.

^{*} Traverse only supports linear travel

(m)



Other products with changed specifications

Lift change (extension)

- The lift can be extended within the range in the following table, so specify as needed.
- Options other than those shown in the following table are also possible depending on the conditions, so contact HITACHI.

Chain Length and Chain Container

It is necessary to use a chain container of a capacity fitted to the length of chain to be contained.

	Rated Load(kg)	Chain System	Chain Longth(m)	Lift (m) and Name of Container																					
	nateu Luau(ky)	Chain System	Chain Length(m)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	250	<i>∮</i> 6.3 × 1	LIFT+0.5			F	λX						Вх						Сх						
	500	<i>∲</i> 6.3 × 1	LIFT+0.5			F	λX						Вх						Сх						
S	1,000	φ7.1 × 1	LIFT+0.7			Ď					ŧ						F	F							
Series	2,000	φ7.1 × 2	LIFT+1.4	D		Е			F					G											
	3,000	φ7.1 × 3	LIFT+2.4		ŧ		F		(ì															
	5,000	<i>ϕ</i> 7.1 × 3	LIFT+3.9		F		Ģ																		
	1,000	φ7.1 × 1	LIFT+0.7			Ď				[
F Series	2,000	<i>∲</i> 10 × 1	LIFT+0.8	E			F								G										
	3,000	<i>ϕ</i> 10 × 2	LIFT+1.6		F			G																	
	5.000	ϕ 10 × 3	LIFT+1.8		(G																			

Tropical treatment added

The motor is varnish treated twice when it will be subjected to high humidity conditions.

Insulation grade change

The standard product uses E grade insulation, but F grade insulation is possible (motor only).

On beam first stage

The ET trolley beam width is one grade higher than the standard.

With protective cover

This is a resin coated cloth main unit protective cover.

Upper hook direct connection type

This type directly connects the trolley and hoist body using an I-hook.

Optional chain container

Plastic is the standard specification, but it can also be made of steel plate.

With thermal protector

This product can come with a thermal protector to prevent motor burnout.

Technical materials

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.

Allowable Power Cord Length

When extending power cord, cord length should be less than the values in this Table.

									Cable	Size							
	Rated Load	0.75	mm²	AWG	G #18	1.25mm ² AWG #16		#16	2.0	mm²	AWG	i #14	AWG	i #12	3.5mm ²		
	(kg)	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley	Hoist only	With Motor Trolley
	250	31	27	34	29	52	45	54	47	74	52	76	54				
S	500	27	20	29	21	46	33	48	34	74	52	76	54				
	1,000-5,000	27	20	29	21	46	33	23	18	74	52	76	54	118	86	125	92
	1,000	13	10	14	11	22	18	11	8	35	29	36	30	57	48	61	51
F	2,000-5,000	_	_		_		-			17	13	17	13	28	21	30	23

^{*}The length is calculated using 40V for the drop amount where the voltage drop only occurs in the cable. (For a power source of 400V)

About the method with a stopper

■ Wheel stopper

After the trolley has been installed on the travel rail, always install a stopper on the end of the travel rail to prevent the trolley from dropping off.

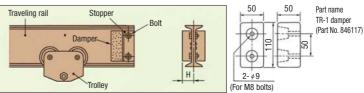
- Avoid using the stopper to stop the trolley by letting it run into the stopper.
- Using a stopper that is a different color from the travel rail is an effective means for preventing the trolley from striking the stopper because it makes the stopper stand out.

Damper

The stopper should be used with rubber or other shock absorbing material to absorb the shock when the trolley strikes the stopper. The rubber damper shown in the figure at right is available, so please make use of it.

Installation of trolley stopper

Materials (L Shaped RolledSteel Bar)	H (mm)	Bolts and Nuts
	30	M10
50×50×6	40	MAC
	50	M16
65,45,46	60	M20
03×03×0	65	IVIZU
	(L Shaped RolledSteel Bar)	(L Shaped RolledSteel Bar) (mm) 30 50×50×6 40 50 60 65×65×6 60



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