

Hitachi Electric Chain Hoist





Hitachi Super F2 Hoist has improved functionality from the previous Hitachi Chain Hoist, which has been used for a wide range of applications such as general machineries, automobiles, warehouses and furthermore. Compared to the previous Hitachi Chain Hoist, its speed, safety, durability and maintenance ability have been largely imporoved. Hitachi Super F2 Hoist is aimed for an easier use and more convenience and

Speedy

Safety

Strong

Smooth

Simple

make cargo handling more efficient and realize a higher safety.

Super Functions

Faster hoisting speed

• 40% increase of hoisting speed with single chain for 3t

• 25% increase of hoisting speed with double chain for 5t

Easier control

Cushion starting/stopping & variable speed function



Higher durability

- Rating 45%ED (High-speed 30% + Low-speed 15%)
- Protective structure against dust and water streams (IP55)

Higher safety

- · Double brake function [Electric brake + Mechanical brake (at 2nd-stage gear)]
- Overload limiter + duplex winding prevention mechanism (Slip clutch+electric limit switch)
- · Emergency stop button equipped as a standard
- Low voltage control(24V)
- Function of reverse phase inspection relay
- Anti-drop mechanism of a trolley equipped as a standard

Easier maintenance

- · All electric parts are assembled into one switch case
- One push lock type outlet
- · Easy to attach/remove with fixed upper hook pin
- Display of maintenance information: number of starting times, operation hours
- Grease → Lubrication oil: Easy to exchange lubrication just by changing oil
- Saving operation information to USB memory





Specifications table

Rated Loa	ad(kg)	2,000	3,000	5,000			
Madal name	Hoist	2SFNH ₂	3SFNH₂	5SFNH₂			
Model name	Trolley	3SF	TN ₂	5SFTN ₂			
Heisting on end(m(min)	High-speed	8.5	7.0	4.2			
Hoisting speed(m/min)	Low-speed	2.1	1.8	1.1			
	High-speed	3.0	7				
Motor output(kW)	Low-speed	0.75	9				
	High-speed	25					
Traveling speed(m/min)	Low-speed	6.3					
	High-speed						
Motor output(kW)	Low-speed	0.18					
Link shein	Dia.(mm)	¢11.2					
Link chain	No.of Falls	1 1		2			
Dating	High-speed	30%ED、90starts/h					
Rating	Low-speed		15%ED、180starts/h				

Standard specifications

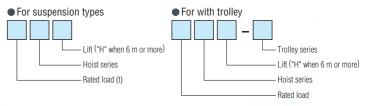
Power source (3phase)	380-415V 50Hz,440-460V 60Hz				
Operation method	Operating push button				
Control voltage	24V				
	Suspension type with manual driven				
Devuer method	trolley or chain driven trolley : with 5m				
Power method	power cable				
	With motorized trolley : no power cable				
Push button switch	3 Stop				
(dual speed)	5 Stop 1 J I I				
Color(munsell)	Orange(2.5YR 6/12),Black(N1.0)				
	IP55				
Electric protection	Push button : IP65				
Electrial protection	(Equivalent when stuffing drain hole:				
	indoor type)				
Poting*	High-speed : 30%ED,90starts/h				
Rating*	Low-speed : 15%ED,180starts/h				
Standards	Machinery : 06/42/EC				
Stanuarus	EMC : 04/108/EC				

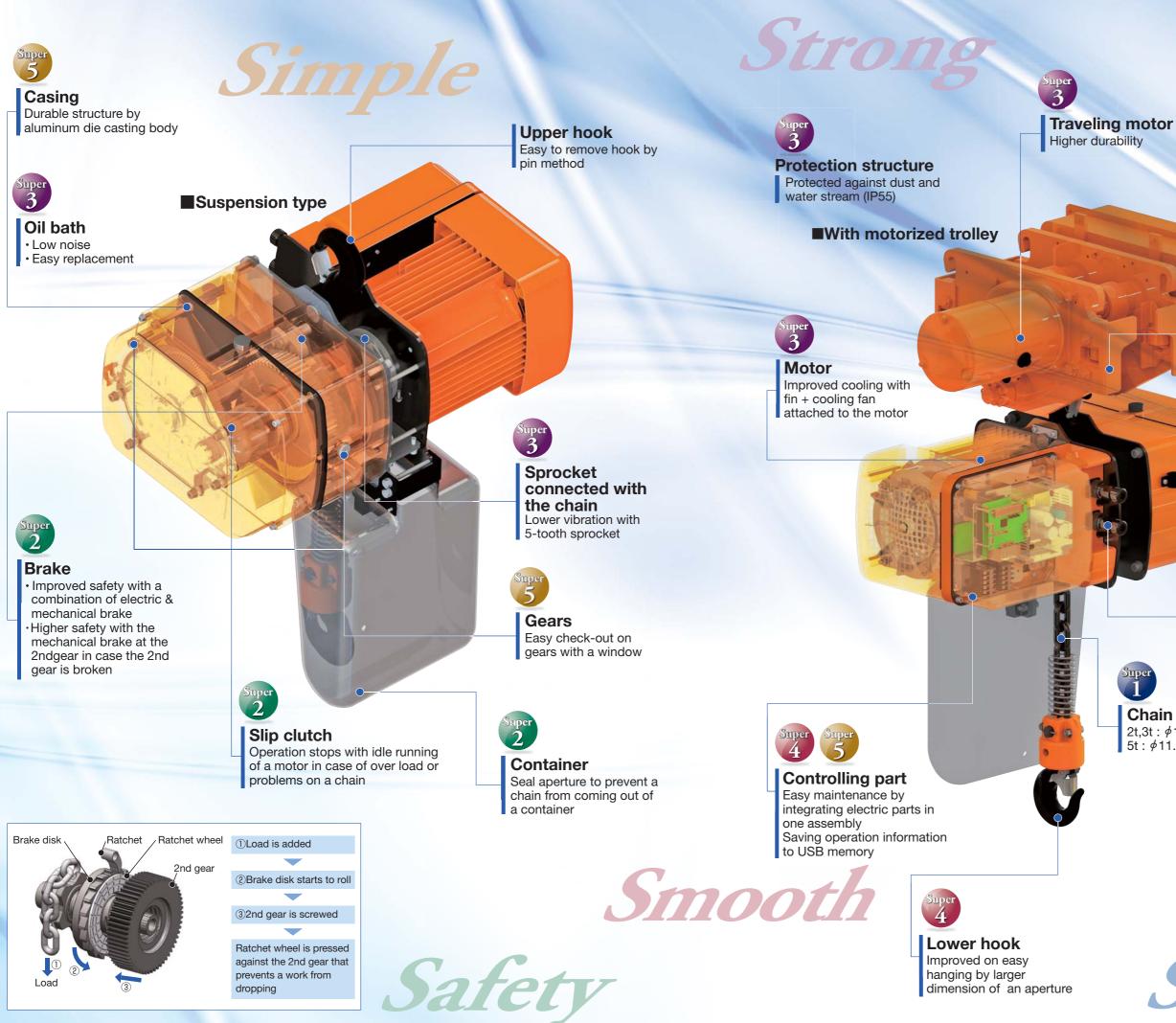
*This shows the value at a load of 63% of the rated load.

*Dual speed have an added low speed to allow time 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

The rating shows the value when the high speed and the low speed, the operation time of which is 1/4 of the high speed, are combined.

Model explanation





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Controlling part Easy maintenance by integrating electric parts in one assembly



Anti-drop metal Prevent drops fitting even when a wheel is broken.



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Outlet Easy to attach/remove outlet by "one push lock type"

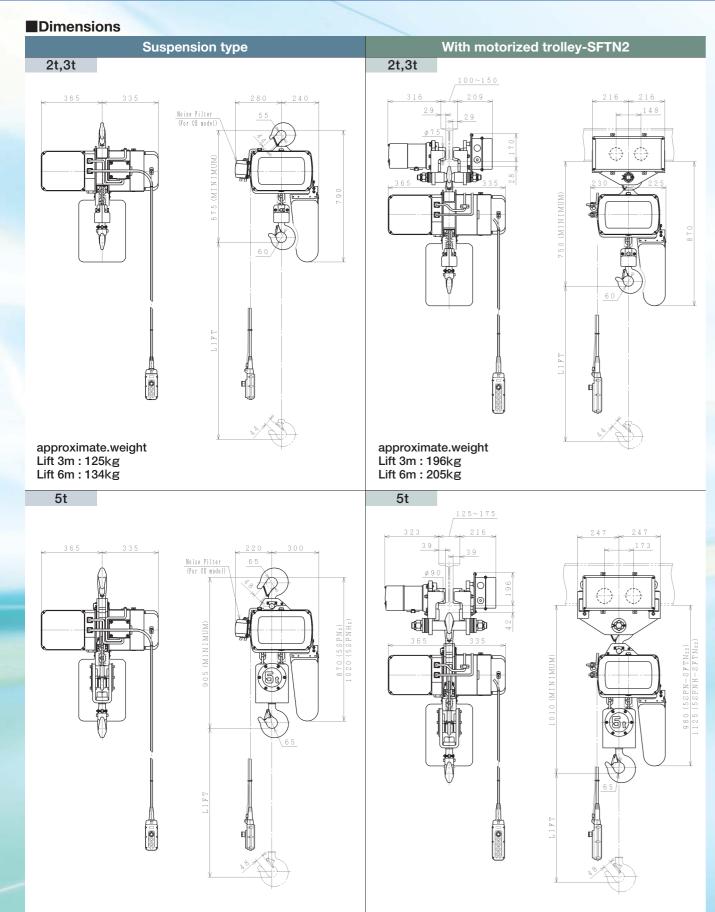


The pendant type with an emergency stop button is standard equipment



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Suspension type with motorized trolley-SFTN2



approximate.weight Lift 3m : 164kg Lift 6m : 181kg

approximate.weight Lift 3m : 259kg Lift 6m : 273kg

1. All dimensions and specifications are subject to change without notice. 2. The dimention drawing shows the state with a load suspended. 3. The length shown is for 6m lift. 4. The length in [] shows the minimum beam width of all the range. The length will be different depanding on the thickness of a beam. 5.b length shows the applicable beam width 6. If 2t hoist is combined with electric trolley, the hoist will be 3t(SF series) 7. Attached cusion or cusion mechanism to prevent the electronic parts from being damaged

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Others products with changed specifications Lift change(extension)

•The lift can be extended within the range in the following table, so specify as needed.

Chain length and chain container

It is necessary to use a chain container of a capacity fitted to

Туре	Rated	Chain	Chain	Lift(m) and name of container																	
Type	load(kg)	specification	length(m)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2,000	<i>∲</i> 11.2×1	Lift+0.6	•			Р						steel								
SFN	3,000	<i>∲</i> 11.2×1	Lift+0.6	A					В						plate						
	5,000	<i>∲</i> 11.2×2	2×Lift+1.1	A B steel plate																	

Other specifications(option)

item	
Electric limit switch	This interrupts motor pow and hazardous condition
Optional voltage	200V
Tropical treatment added	The motor is varnish treat subjected to high humidit
On beam first stage	The SFTN2 trolley beam v
Optional chain container	Plastic is a standard spec

Technical materials

Hook dimension/load block weight/chain weight

	Model	2SFN(H) ₂ , 3SFN(H) ₂	5SFN(H)2
	A	154	180
Upper hook	В	42	55
dimension	С	44	48
(mm)	D	55	65
	E	46.5	56.5
	А	161	182
Lower hook	В	42	48
dimension	С	60	65
(mm)	D	43	56.5
	E	43	56.5
Load block weig	Load block weight (kg)		28.0
Chain weight	per 1m chain	2.8	2.8
(kg)	per 1m lift	2.8	5.6

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 hits the stopper. The rubber damper shown in the figure at right is available, so please make use of it.

Hook





•Options other than those shown in the following table are also possible depending on the conditions, so contact Hitachi.

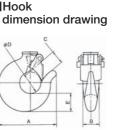
the length of chair	to be contained.
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Contont	
Content	

wer to prevent hook overtravel such as chain kink

ated twice when it will be ity conditions.

width is one grade higher than the standard. ecification, but it can also be fixed to steel plate.



Power cable allowable length

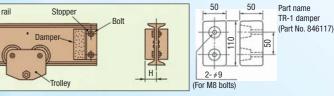
The power cable allowable length for the standard specification is shown in the following table.When extending the power cable or relay cable, make a selection after referring to the follwing table.

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

Туре	Cable size								
	2.0n	1m²	3.5mm ²						
	Hoist	With moter	Hoist	With moter					
	only	trolley	only	trolley					
$2SFNH_2$									
3SFNH ₂	17	13	30	23					
5SFNH ₂									

Installation of trolley stopper

y beam width	Materials	Н	Bolts and nuts	
(mm)	(L shaped rolled steel bar)	(mm)		
100		40	M16	
125	$50 \times 50 \times 6$	50	IVITO	
150	65×65×6	60	M20	



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Information in this brochure is subject to change without notice.

Hitachi Industrial Equipment Systems Co., Ltd.

For further information, please contact your nearest sales representative.



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

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 brochure.