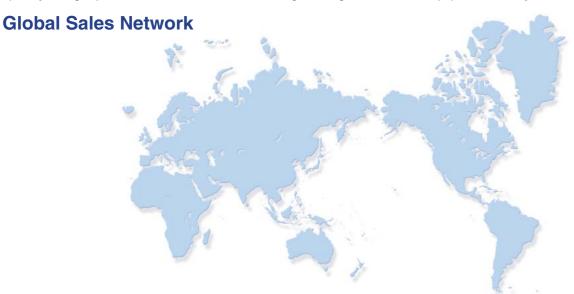
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The business facilities and other establishments of Hitachi Equipment Systems Co., Ltd. are certified under ISO 14001 (the international standard for environmental



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In terms of quality, the company is certified under ISO 9001 (the international for quality management system) and works to provide high quality in goods and service.

HITACHI HOISTS



Electric Chain Hoist 2t/2.8t/5t



Hitachi Super F 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 F Hoist is aimed for an easier use and more convenience and make cargo handling more efficient and realize a higher safety.

Super F series

Super Functions



Faster hoisting speed

Speedy

- 40% increase of hoisting speed with single chain for 3t
- 25% increase of hoisting speed with double chain for 5t



Easier control

Safety

Cushion starting/stopping & variable speed function



Higher durability

Strong

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



Higher safety

Smooth

- 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

Simple

- · 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



■Standard specifications

Power source (3phase)	380-415V 50Hz,440-460V 60Hz
Operation method	Operating push button
Control voltage	24V
	Suspension type with manual driven
Power method	trolley or chain driven trolley: with 5m
Power method	power cable
	With motorized trolley: no power cable
Push button switch	3 Stop 11 V
(dual speed)	5 (Stop) 11 (1) (2)
Color(munsell)	Orange(2.5YR 6/12),Black(N1.0)
	IP55
Clastwial mustastian	Push button : IP65
Electrial protection	(Equivalent when stuffing drain hole:
	indoor type)
Insulation class of motor	В
5	High-speed: 30%ED,90starts/h
Rating*	Low-speed : 15%ED,180starts/h
0	Machinery: 06/42/EC
Standards	EMC: 04/108/EC

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

■ Model explanation

●For si

For	suspe	ensio	n types	For	with	troll
2.8	SFN	Н		2.8	SFN	Н

①Rated load(t) ②Hoist series

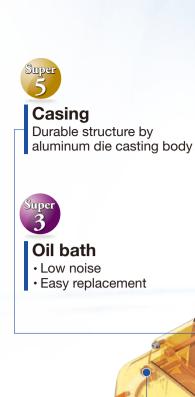
③Lift("H"when 6m or more) ④Trolley series

■Application example

Feature	Advantage
High hoisting speed	Save operating time for high lift
Cushion starting/stopping	Lower vibration of cargo
Overload preventing structure	Applicable for jib crane
Improved load ratio	Applicable for higher load ratio
Improved protective structure	Applicable for variable environment
Special lift is available by changing a chain container	Lift can be modified between 12m and 20m

^{*}Dual speed have an added low speed to allow time movement operation and improve

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 combine



Brake

· Improved safety with a

·Higher safety with the

mechanical brake

gear is broken

combination of electric &

mechanical brake at the

2ndgear in case the 2nd

Simple

Upper hook

Easy to remove hook by pin method





Sprocket connected with the chain

Lower vibration with 5-tooth sprocket



Gears

Easy check-out on gears with a window



Slip clutch

Operation stops with idle running of a motor in case of over load or problems on a chain



Safety

Container

Seal aperture to prevent a chain from coming out of a container



Protection structure

Strong

Protected against dust and water stream (IP55)

■With motorized trolley



Traveling motor

Higher durability



Controlling part

Easy maintenance by integrating electric parts in one assembly



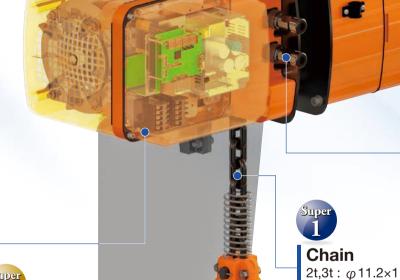
Anti-drop metal

Prevent drops fitting even when a wheel is broken.



Motor

Improved cooling with fin + cooling fan attached to the motor





5t : φ11.2×2

Outlet

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



Controlling part

Easy maintenance by integrating electric parts in one assembly



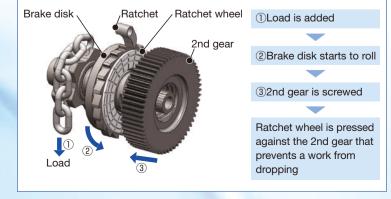
Smooth



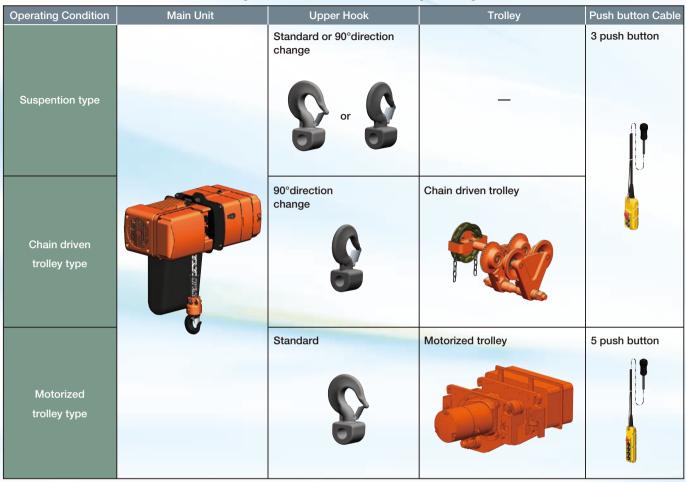
Lower hook

Improved on easy hanging by larger dimension of an aperture





■Select a model from the following that is suitable for the operating conditions.







■Combination with SFTN



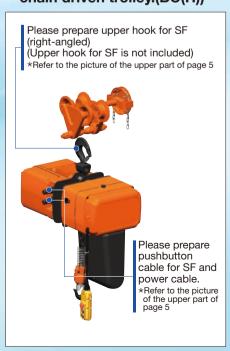
*Refer to the picture of the upper part of page 5

■Combination with existing trolley(ET2, ST2)



5

■Combination with chain driven trolley.(BC(H))



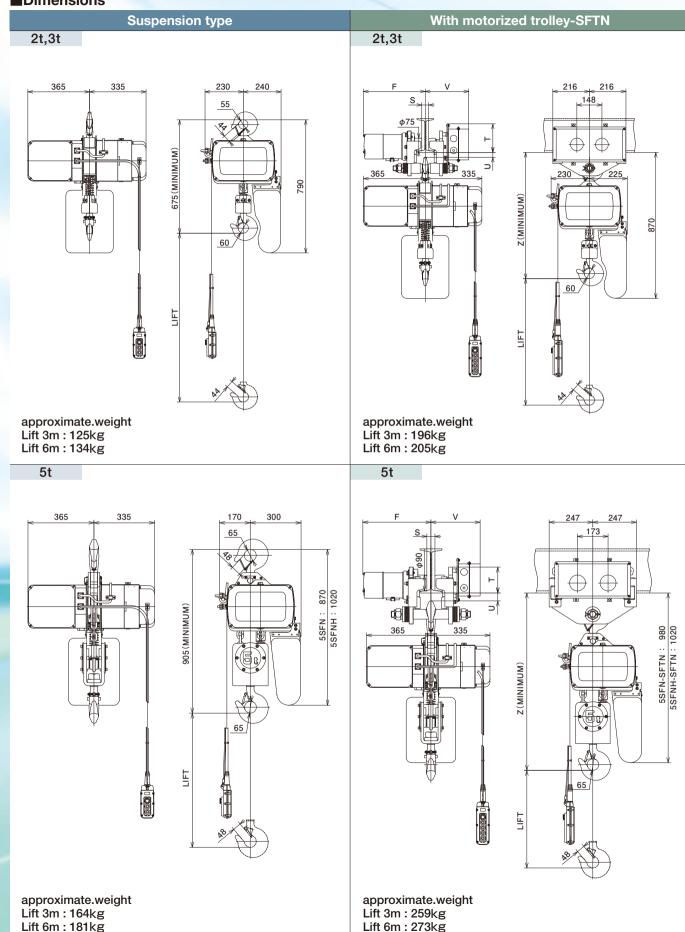
■Specifications table

Rated Load	d(kg)	2,000	3,000	5,000			
Madalmana	Hoist	2SFNH	3SFNH	5SFNH			
Model name	Trolley	38	FTN	5SFTN			
Hoioting apped/m/min)	High-speed	8.5	7.0	4.2			
Hoisting speed(m/min)	Low-speed	2.1	1.8	1.1			
Motor output(kM)	High-speed	3.0	7				
Motor output(kW)	Low-speed	0.75	9				
Travaling an add/m/min)	High-speed	25					
Traveling speed(m/min)	Low-speed		6.3				
Motor output/k/M/	High-speed	0.7					
Motor output(kW)	Low-speed	0.18					
Link chain	Dia.(mm)		φ11.2				
LITIK CHAIH	No.of Falls	1	1	2			
Pating	High-speed		30%ED、90starts/h				
Rating	Low-speed	15%ED、180starts/h					

Suspension type with motorized trolley-SFTN

Super F Series

■Dimensions



^{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

Others 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.

Type	Rated	Chain	Chain						Lift	(m)	and	nan	ne o	f co	ntai	ner					
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	φ11.2×1	Lift+0.6	_		Α			В						steel						
SFN	3,000	φ11.2×1	Lift+0.6				,	٦.						-	•				pla	ıte	
	5,000	φ11.2×2	2×Lift+1.1		Α			В						st	teel	plat	е				

■Other specifications(option)

item	Content
Electric limit switch	This interrupts motor power to prevent hook overtravel and hazardous condition such as chain kink
Optional voltage	200V
Insulation grade change	The standard product uses B grade insulation, but F grade insulation is available (motor only)
Tropical treatment added	The motor is varnish treated twice when it will be subjected to high humidity conditions.
On beam first stage	The SFTN trolley beam width is one grade higher than the standard.
Optional chain container	Plastic is a standard specification, but it can also be fixed to steel plate.

Technical materials

■ Hook dimension/load block weight/chain weight

	Model	2SFN(H), 3SFN(H)	5FNH(H)
	Α	154	180
Upper hook	В	42	55
dimension	С	44	48
(mm)	D	55	65
	E	46.5	56.5
	Α	161	182
Lower hook	В	42	48
dimension	С	60	65
(mm)	D	43	56.5
	E	43	56.5
Load block weig	jht (kg)	6.0	28.0
Chain weight	per 1m chain	2.8	2.8
(kg)	per 1m lift	2.8	5.6

Hook dimension drawing

■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.

		Cable	size	
T	2.0n	nm²	3.5n	nm²
Type	Hoist only	With moter trolley	Hoist only	With moter trolley
2SFNH				
3SFNH	17	13	30	23
5SFNH				

■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.

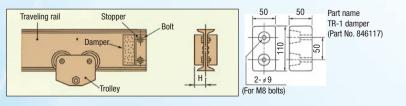
Using a stopper that is a different color from the travel rail is an effective means for preventing the trolley from striking the stopper because it makes the stopper stand out.

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.

Installation of trolley stopper

Runway beam width	Materials	Н	Dalla and make
(mm)	(L shaped rolled steel bar)	(mm)	Bolts and nuts
100	E0.7.E0.7.C	40	Mac
125	50×50×6	50	M16
150	65×65×6	60	M20





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