

Hitachi Hoists

Electric Chain Hoist



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Operating Conditions and Model Selection Method

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

Operating Conditions		Main Unit	Trolley	Pushbutton Cable	Crane Saddle	Option	
Suspension Type		S series F series P11 P17	—	Power cable Pushbutton cable 			
Manual Driven Trolley Type			BP series P16 P22	BC series P15 P21	2PB(H) For single speed 2PBN(H) For double speed		
Chain Driven Trolley Type			ST series P13 P20		4PB(H) 4PBN(H)		
Motorized Trolley Type			ET series P13 P20 *Cables between Main unit and Trolley are not attached	6PB(H) 6PBN(H)			
Motorized Trolley Motorized Travel Type			BP series P16 P22	BC series P15 P21	Wiring unit 4PB(H)-C 4PBN(H)-C	Crane saddle TL series TLM series TH series THM series SL series SLM series	Crane girder switch unit (24V operation) GMB-10
Manual Driven Trolley Motorized Travel Type							
Chain Driven Trolley Motorized Travel Type							

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 (m)	Number of Pushbutton Switch	Material of Cable		Pushbutton Switch				
				For Pushbutton Cable	For Power Cable	Character	① ↓	② ↓	③ ↓	
For Single Speed Type	2PB	3	2	T-VCT 3CX0.75mm ²	VCT 4CX2mm ²	Character	① ↓	② ↓		
	2PBH	6				Contact	2a			
	4PB	3	4	T-VCT 5CX0.75mm ²	—	Character	① ↓	② ↓	③ ↓	
	4PBH	6				Contact	2a	2a		
	6PB	3	6	T-VCT 8CX0.75mm ²	—	Character	① ↓	② ↓	③ ↓	④ ↓
	6PBH	6				Contact	2a	2a	2a	
For Dual Speed Type	2PBN	3	2	T-VCT 5CX0.75mm ²	VCT 4CX2mm ²	Character	① ↓	② ↓		
	2PBNH	6				Contact	4a+2b			
	4PBN	3	4	T-VCT 6CX0.75mm ²	—	Character	① ↓	② ↓	③ ↓	
	4PBNH	6				Contact	4a+2b	2a		
	6PBN	3	6	T-VCT 8CX0.75mm ²	—	Character	① ↓	② ↓	③ ↓	④ ↓
	6PBNH	6				Contact	4a+2b	2a	2a	

CE Version

	Type	Lift (m)	Number of Pushbutton Switch	Material of Cable		Pushbutton Switch				
				For Pushbutton Cable	For Power Cable	Character	① ↓	② ↓	③ ↓	
For Single Speed Type	3PBE	3	3	T-VCT 4CX0.75mm ²	VCT 4CX2mm ²	Character	(STOP)	① ↓	② ↓	
	3PBEH	6				Contact	1b	2a		
	5PBE	3	5	T-VCT 7CX0.75mm ²	—	Character	(STOP)	① ↓	② ↓	
	5PBEH	6				Contact	1b	2a	2a	
	7PBE	3	7	T-VCT 8CX0.75mm ²	—	Character	(STOP)	① ↓	② ↓	③ ↓
	7PBEH	6				Contact	1b	2a	2a	2a
For Dual Speed Type	3PBE	3	3	T-VCT 5CX0.75mm ²	VCT 4CX2mm ²	Character	(STOP)	① ↓	② ↓	
	3PBEH	6				Contact	1b	4a+2b		
	5PBE	3	5	T-VCT 7CX0.75mm ²	—	Character	(STOP)	① ↓	② ↓	
	5PBEH	6				Contact	1b	4a+2b	2a	
	7PBE	3	7	T-VCT 9CX0.75mm ²	—	Character	(STOP)	① ↓	② ↓	③ ↓
	7PBEH	6				Contact	1b	4a+2b	2a	2a

Standard Specifications Quick Reference

Hoist main unit

Capacity (kg)	Hoisting Speed (m/min)(50/60Hz)			Motor (kW)(50/60Hz)		Power Source (phase)	Chain		Lift (m)	Type	See page	Function		
	Type	Main	Creep	Main	Creep		Dia. (mm)	No. of falls				Automatic Adjusting Brake	Reverse Phase Inspecting Relay	Auxiliary Brake System
250	Single	10/12	—	0.45/0.55	—	3	6.3	1	3	1/4S ₂	11.12	—	—	—
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	0.32/0.38	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	0.08/0.1	3	6.3	1	6	1/4SNH ₂	11.12	—	—	—
250	Single	5/6	—	0.25/0.3	—	1	6.3	1	3	1/4SS ₂	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	1/2S 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	0.63/0.75	0.16/0.19	3	6.3	1	6	1/2SNH ₂	11.12	—	—	—
500	Single	3.6/4.3	—	0.32/0.37	—	1	6.3	1	3	1/2SS ₂	11.12	—	—	—
500	Single	3.6/4.3	—	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	—	○	—
1,000	Single	4.6/5.5	—	0.8/1.0	—	3	7.1	1	6	1SH	11.12	—	○	—
1,000	Single	7.1/8.5	—	1.3/1.6	—	3	7.1	1	3	1F	17.18	○	○	○
1,000	Single	7.1/8.5	—	1.3/1.6	—	3	7.1	1	6	1FH	17.18	○	○	○
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	—	○	—
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	—	○	—
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	—	○	—
2,000	Single	2.3/2.8	—	0.8/1.0	—	3	7.1	2	6	2SH	11.12	—	○	—
2,000	Single	6.8/8.2	—	2.4/2.9	—	3	10	1	3	2F	17.18	○	○	○
2,000	Single	6.8/8.2	—	2.4/2.9	—	3	10	1	6	2FH	17.18	○	○	○
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	—	○	—
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	—	○	—
2,000	Dual	6.8/8.2	1.7/2.1	2.4/2.9	0.6/0.7	3	10	1	3	2FN	17.18	○	○	○
2,000	Dual	6.8/8.2	1.7/2.1	2.4/2.9	0.6/0.7	3	10	1	6	2FNH	17.18	○	○	○
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	—	○	—
3,000	Single	1.5/1.8	—	0.8/1.0	—	3	7.1	3	6	3SH	11.12	—	○	—
3,000	Single	4.1/4.9	—	2.4/2.9	—	3	10	2	3	3F	17.18	○	○	○
3,000	Single	4.1/4.9	—	2.4/2.9	—	3	10	2	6	3FH	17.18	○	○	○
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	○	○	○
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	○	○	○
3,000	Single	0.8/0.9	—	0.4/0.5	—	1	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	—	○	—
5,000	Single	0.9/1.1	—	0.8/1.0	—	3	7.1	5	6	5SH	11.12	—	○	—
5,000	Single	2.8/3.3	—	2.4/2.9	—	3	10	3	3	5F	17.18	○	○	○
5,000	Single	2.8/3.3	—	2.4/2.9	—	3	10	3	6	5FH	17.18	○	○	○
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	○	○	○
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	○	○	○
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	—	2.4/2.9×2	—	3	10	4	6	10FH	17.18	○	○	○
10,000	Dual	2.8/3.3	0.7/0.8	2.4/2.9×2	0.6/0.7×2	3	10	4	6	10FNH	17.18	○	○	○
15,000	Single	1.8/2.2	—	2.4/2.9×2	—	3	10	6	6	15FH	17.18	○	○	○
15,000	Dual	1.8/2.2	0.45/0.55	2.4/2.9×2	0.6/0.7×2	3	10	6	6	15FNH	17.18	○	○	○
20,000	Single	1.4/1.6	—	2.4/2.9×2	—	3	10	8	6	20FH	17.18	○	○	○

Motorized trolley

Rated Load	Model Name	Traveling Speed(m/min)		Applicable Beam Width (mm)	Min. Curve Radius (m)	Page
		50Hz	60Hz			
250kg-1t	1ET	21·10.5	25·12.5	75-125	1.5	13, 14 19, 20
	1ST				1.8	
2ET	1.8					
2ST	2.5					
2t	3ET	21·10.5	25·12.5	100-150	2.0	
	3ST				3.0	
5ET	3.0					
5ST	5.0					
3t	7.5ET×2	10.5	12.5	150, 175	5.0	
	7.5ST×2				5.0	
10ET×2	14					
10ST×2	17					
5t	10ET×2	14	17	175, 190	Straight	
	10ST×2				Straight	

Chain driven trolley

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

Crane saddle

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

Manual driven trolley

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

S series

Electric chain hoist

Suspension type

Single speed model

Dual speed model

Single phase model



Specifications table

SINGLE SPEED (3 PHASE)

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)	50Hz	10	7.2	4.6	2.3	1.5	0.9
	60Hz	12	8.5	5.5	2.8	1.8	1.1
Motor Output (kW)	50Hz	0.45	0.63	0.8	0.8	0.8	0.8
	60Hz	0.55	0.75	1.0	1.0	1.0	1.0
Link Chain	Dia. (mm)	φ6.3	φ6.3	φ7.1	φ7.1	φ7.1	φ7.1
	No. of	1	1	1	2	3	5
Rating		30% ED			25% ED		
Power Cord Length		5m					

DUAL SPEED (3 PHASE)

SN(H)

Rated Load (kg)		250	500	1,000	2,000
Model Name		1/4SN(H) ₂	1/2SN(H) ₂	1SN(H)	2SN(H)
Standard Lift (m)		3(6)			
Hoisting Speed (m/min)	50Hz	7.2/1.8	7.2/1.8	4.6/1.2	2.3/0.6
	60Hz	8.5/2.1	8.5/2.1	5.5/1.4	2.8/0.7
Motor Output (kW)	50Hz	0.32/0.08	0.63/0.16	0.8/0.2	0.8/0.2
	60Hz	0.38/0.1	0.75/0.19	0.1/0.25	0.1/0.25
Link Chain	Dia. (mm)	φ6.3	φ6.3	φ7.1	φ7.1
	No. of Falls	1	1	1	2
Rating		25% ED		20/10% ED	
Power Cord Length		5m			

SINGLE PHASE

SS(H)₂, S(H)1

Rated Load (kg)		250	500	1,000	2,000	3,000	5,000
Model Name		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 Speed (m/min)	50Hz	5.0	3.6	2.3	1.1	0.8	0.45
	60Hz	6.0	4.3	2.8	1.4	0.9	0.55
Motor Output (kW)	50Hz	0.25	0.32	0.4	0.4	0.4	0.4
	60Hz	0.30	0.37	0.5	0.5	0.5	0.5
Link Chain	Dia. (mm)	φ6.3	φ6.3	φ7.1	φ7.1	φ7.1	φ7.1
	No. of Falls	1	1	1	2	3	5
Rating		25% ED			20% ED		
Power Cord Length		5m					

All dimensions and specifications are subject to change without notice.

F series

Electric chain hoist

Suspension type

Single speed model

Dual speed model



Specifications table

SINGLE SPEED (3 PHASE)

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)	50Hz	7.1	6.8	4.1	2.8	2.8	1.4
	60Hz	8.5	8.2	4.9	3.3	3.3	1.6
Motor Output (kW)	50Hz	1.3	2.4			2.4×2	
	60Hz	1.6	2.9			2.9×2	
Link Chain	Dia. (mm)	φ 7.1		φ 10			
	No. of Falls	1	1	2	3	4	6
Rating				30% ED			
Power Cord Length				5m			

DUAL SPEED (3 PHASE)

FN(H)

Rated Load (kg)	2,000	3,000	5,000	10,000	15,000
Model Name	2FN(H)	3FN(H)	5FN(H)	10FNH	15FNH
Standard Lift (m)	3(6)		6		
Hoisting Speed (m/min)	50Hz	6.8/1.7	4.0/1.0	2.8/0.7	1.8/0.45
	60Hz	8.2/2.1	4.8/1.2	3.3/0.8	2.2/0.55
Motor Output (kW)	50Hz	2.4/0.6		2.4/0.6×2	
	60Hz	2.9/0.7		2.9/0.7×2	
Link Chain	Dia. (mm)	φ 10			
	No. of Falls	1	2	3	4
Rating			20% ED		
Power Cord Length			5m		

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