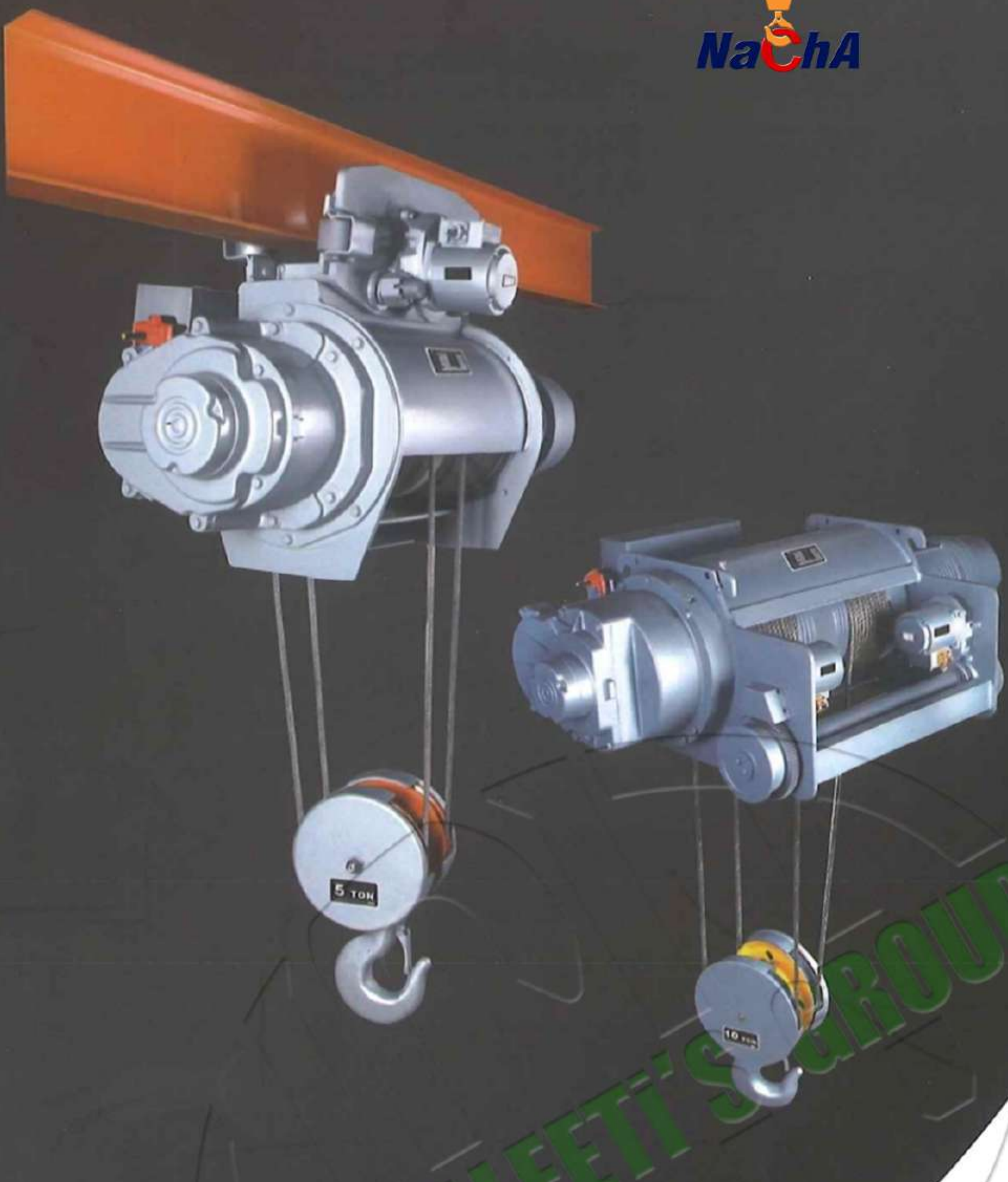
LIFTHAND

AGENT BY NACHALEETi'S GROUP

NaChA



1. Highly Reliable Braking System

- 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.

2. Hoisting Motor with a Thermal Protector

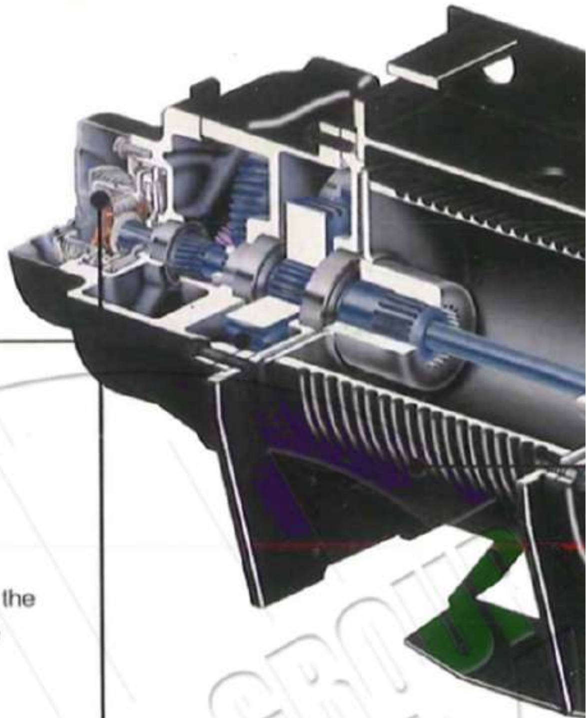
- The hoisting motor automatically stops when sensing the heat of the motor coil in order to protect the motor from burning damage caused by heat due to overwork.

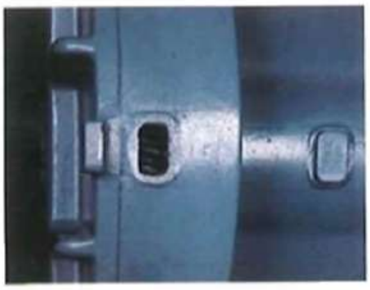
3. Efficient Maintenance is Possible

- 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 Hoist is composed of a rational system with unitized brake, motor, drum, reduction gear, and auxiliary brake.

- Disassembly and assemble are easy.
- Maintainability and serviceability are improved.



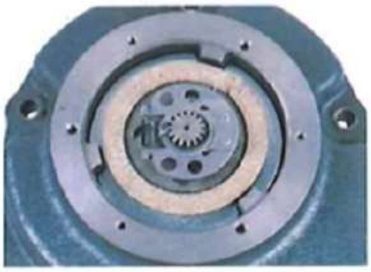


● GEAR INSPECTION WINDOW

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 nit 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.

lity Makes Hoists More Serviceable and Reliable

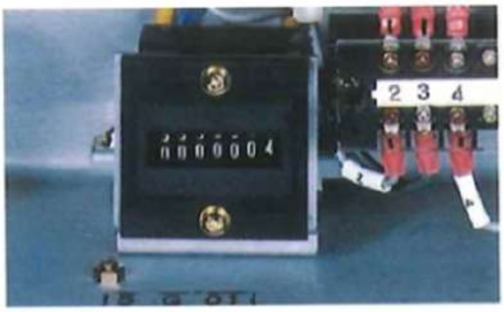
● **MOTOR UNIT**

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 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.

★ **CONTROL BOX**

● **Starting time counter**

The cumulative number of starting times is indicated on this counter. Because the total 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.

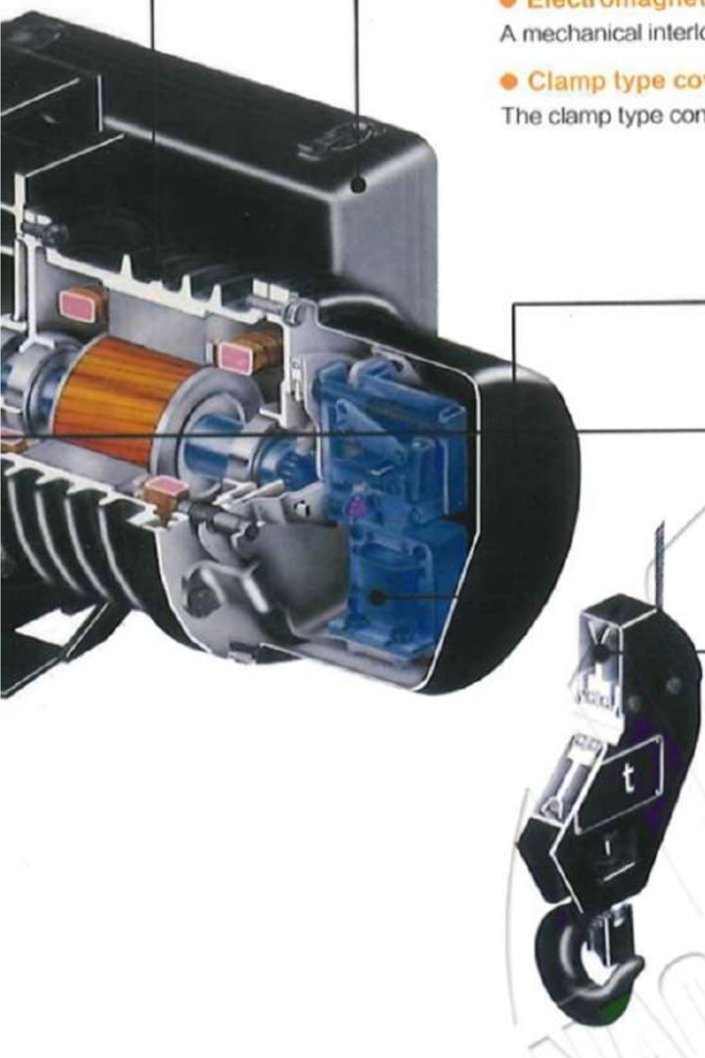


● **Electromagnetic switch with mechanical interlock**

A mechanical interlock is provided for the electromagnetic switch to prevent malfunction.

● **Clamp type cover**

The clamp type control box cover facilitates opening and closing.

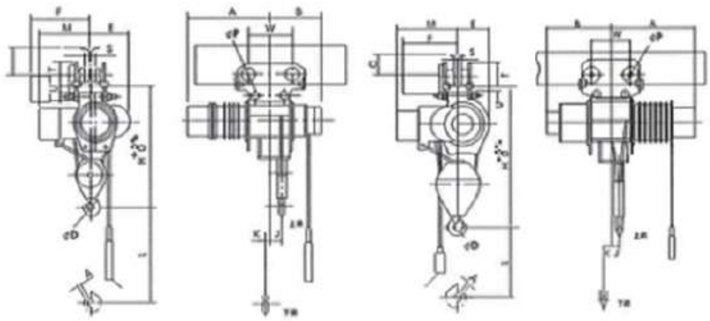


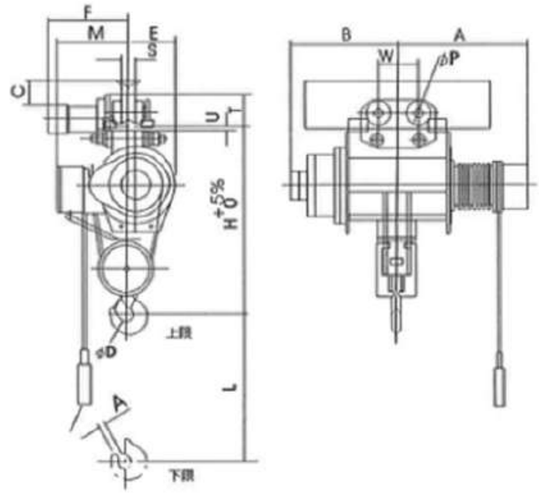
● **Brake unit**

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.

★ **STEEL DRUM and SHEAVE**

The drums (2 and 4 fall models for 2 to 5 tons, except for ultra high lift hoists) and sheaves 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 case metal ones (compared with our products).





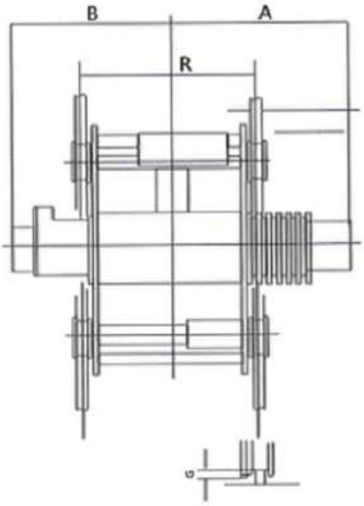
Specifications of Standard Headroom Hoist

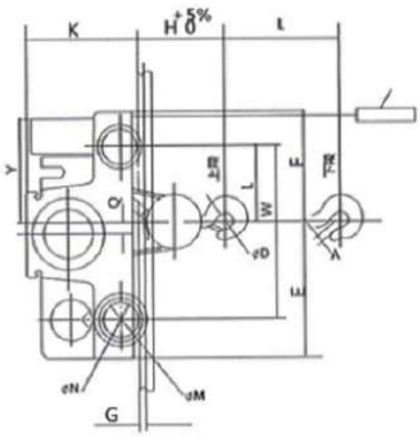
Model			1LF	2LF	3LF	5LF	7.5LF	10LF	15LF	20LF
Capacity (t)			1	2	3	5	7.5	10	15	20
Lifting height (m)			6m | 12m	6m | 12m	6m | 12m	8m | 12m	8m | 12m	8m | 12m	8m | 12m	8m | 12m
Hoist	Lifting speed (m/min)	50Hz	11	6	7.5	6.7	6.7	5	2.5	2.5
		60Hz	13	7	9	8	8	6	3	3
	Power (kw)	50Hz	3	3	5.5	7.5	9	11	8*2	8*2
		60Hz	3	3	5.5	7.5	9	11	8*2	8*2
	Motor	Current	6.44	6.44	12.8	15.6	19	22	16	18
		No.of poles	4	4	4	4	4	4	4	4
Trolley	Traversing speed (m/min)	50Hz	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21
		60Hz	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25
	Power (kw)	50Hz	0.4	0.4	0.4	0.75	0.75	0.75*2	0.75*2	0.75*2
		60Hz	0.4	0.4	0.4	0.75	0.75	0.75*2	0.75*2	0.75*2
	Motor	Current	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2
		No.of poles	4	4	4	4	4	4	4	4
	Min.curve radius (m)		1.5	1.8	2.0	3.0	Straight	Straight	Straight	Straight
Wire Rope	No.of falls (pcs)		2	2	2	4	4	4	4	4
	Composition		6× (19) -B+FC	6× (37) -B+FC	6× (37) -B+FC	6× (37) -B+FC	6× (37) +FC	6× (37) +FC	6× (39) +1	6× (37) +1
	Diameter (mm)		Φ8	Φ12	Φ14	Φ12	Φ14	Φ15.5	Φ20	Φ20
Power supply			220V–600V/3Phase/50Hz or 60Hz							
Control voltage			24V/36V/48V/110V							

Dimensions Table

Model		1LF						2LF						3LF						5LF					
Capacity (t)		1						2						3						5					
Approx dimensions (mm)	L	6000			12000			6000			12000			6000			12000			8000			12000		
	H	790						985						1115						1190					
	A	545			715			595			630			645			690			845			955		
	B	350			385			435			615			475			660			690			800		
	M	345						415						460						455					
	W	200/290						200/290						230/310						250/330					
	K	20			90			30			110			35			120			/			/		
	J	85			115			75			100			80			110			/			/		
	Φd	45						56						71						90					
	Φp	96						96						128						156/140(DRIVE /DRIVEN SIDE					
	a	23						36						42						58					
Min.curve radius(m)		1.5						1.8						2.0						3.0					
Dimension with respect to I-beam		E	F	S	T	U	C	E	F	S	T	U	C	E	F	S	T	U	C	E	F	S	T	U	C
200×100×7		255	374	42	148	47 (42)	135	220	378	42	148	42	135												
250×125×7.5		255	387	67	151	44 (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	163	102	223	32	365
Approx.weight(kg)		175			195			280			310			385			415			685			745		

Model		7.5LF				10LF				15LF			20LF
Capacity (t)		7.5				10				15			20
Approx dimensions (mm)	L	8000		12000		8000		12000		8000	12000		12000
	H	1345				1515				1865			2010
	A	1075		1150		1075		1150		1060	1160		1210
	B	830		905		885		960		750	850		900
	M	315				355				500			500
	W	570				590				705			705
	K	560		760		650		786		820			900
	J	230/310(Drive side /Driven side)				230/330(Drive side /Driven side)				300			300
	Φd	100				100				130			165
	Φp	128				156/140(Drive side /Driven side)				190			190
	a	69				69				86			108
Min.curve radius(m)		Straight				Straight				Straight			Straight
Dimension with respect to I-beam		S	T	U	F	S	T	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)		930		990		1230		1290		2340	2540		2940



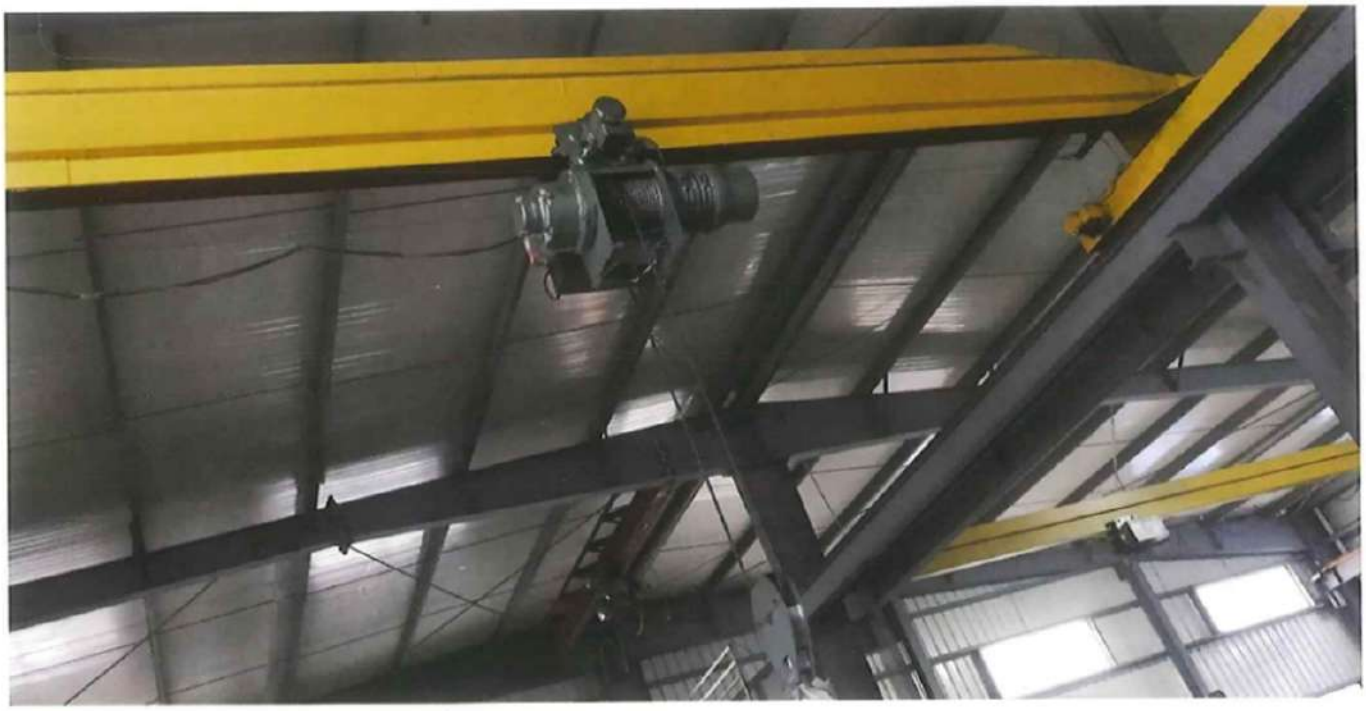


Specifications of Double-rail Hoist

Model			2LFD	3LFD	5LFD	7.5LFD	10LFD	15LFD	20LFD
Capacity（t）			2	3	5	7.5	10	15	20
Lifting height（m）			12m	6m | 12m	8m | 12m	8m | 12m	8m | 12m	8m | 12m	12m
Hoist	Lifting speed（m/min）	50Hz	6	7.5	6.7	6.7	5	2.5	2.5
		60Hz	7	9	8	8	6	3	3
	Power（kw）	50Hz	3	5	7.5	9	11	8*2	8*2
		60Hz	3	5	7.5	9	11	8*2	8*2
	Motor	Current	6.44	12.8	15.6	19	22	16	16
		No.of poles	4	4	4	4	4	4	4
Trolley	Traversing speed（m/min）	50Hz	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21	11 | 21
		60Hz	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25	13 | 25
	Power（kw）	50Hz	0.4	0.4	0.75	0.75	0.75*2	1.1	1.1*2
		60Hz	0.4	0.4	0.75	0.75	0.75*2	1.1	1.1*2
	Motor	Current	1.5	1.5	2.2	2.2	2.2	2	3
		No.of poles	4	4	4	4	4	4	4
Wire Rope	No.of falls（pcs）		2	2	4	4	4	4	4
	Composition		6×（19）+FC	6×（37）+FC	6×（37）+FC	6×（37）+FC	6×（37）+FC	6×（37）+1	6×（37）+1
	Diameter（mm）		Φ8	Φ10	Φ12	Φ14	Φ16	Φ20	Φ20
Power supply			220V–600V/3Phase/50Hz or 60Hz						
Control voltage			24V/36V/48V/110V						

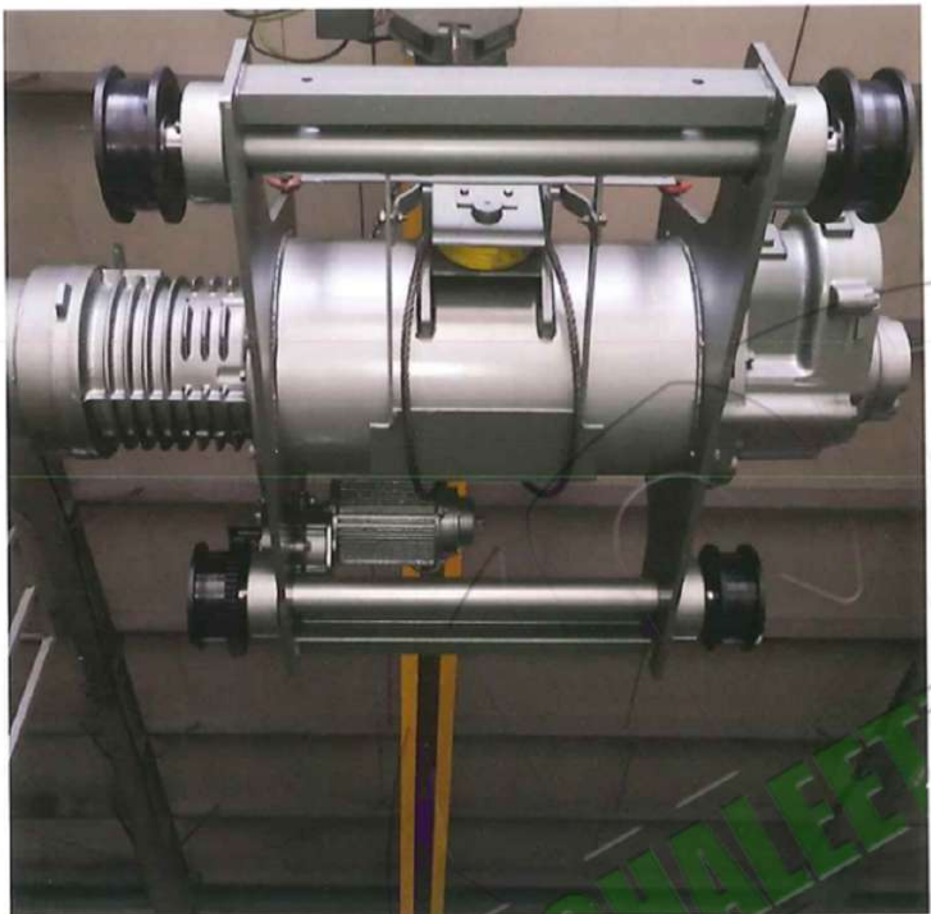
Dimensions Table

Model		2LFD	3LFD		5LFD		7.5LFD		10LFD		15LFD		20LFD
Capacity (t)		2	3		5		7.5		10		15		20
Approx dimensions (mm)	L	12000	6000	12000	6000	12000	8000	12000	8000	12000	8000	12000	12000
	H	310	360		560		515		680		785		930
	K	430	480		500		600		600		730		730
	R	900	650	950	900	1150	1000	1150	1000	1150	1000	1200	1300
	F	455	430		530		605		615		700		700
	E	425	450		550		615		650		740		740
	W	650	650		850		865		915		1040		1040
	A	835	755	915	845	955	1075	1150	1075	1150	1060	1160	1210
	B	675	570	730	690	800	830	905	885	960	750	850	900
	Φd	56	71		90		100		90		130		165
	O	40	51		55		67		70		89		91
	ΦM	160	160		160		195		195		250		250
	ΦN	190	190		190		225		225		282		282
	G	26	26		26		29		29		28		28
	I	36	42		58		69		69		86		108
	a	350	325		425		433		445		505		505
Rail(mm)		38 square steel bar or 12 kg rail					44 square steel bar or 15 kg rail				55 square steel bar or 22 kg rail		
Wheel tread width(mm)			49				53		53		66		66
Approx.weight(kg)		380	420	490	680	750	1070	1130	1260	1350	2150	2250	2450



Standard Headroom Hoist

The standard headroom hoist is widely utilized for general purposes, it boasts high performance for use in rugged jobs such as general production in factories, mining, railroads and warehouses.



Double-rail Hoist

The double-rail hoist is ideally used as lifting and traveling mechanism of an overhead 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.

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