

**Professional Design & Manufacturer** 

# **ELECTRIC CHAIN HOIST**

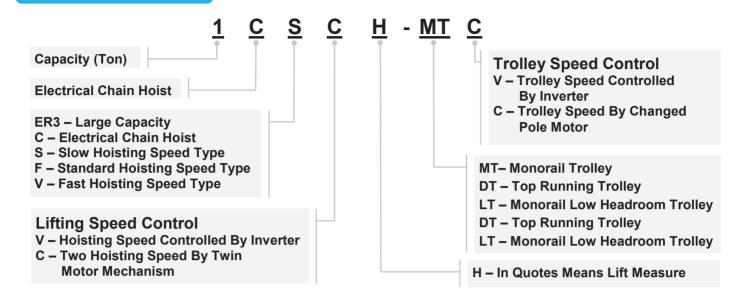




www.TaiwanHoist.com



#### **Product Code**



Power Supply - 3Φ220V/380V/415V/440V 50/60HZ Lift - Standard Lift (For Special Lengths Can Be Customized)

Standard Accessories Chain Bag×1
Push Button Switch (Cable 3M) ×1

#### Option

- Digital overload protection device
- Upper and lower limit switch < Type CS \ CSC \ CSV \ CS-LT>
- Stainless steel chains
- \* Radio remote controller

	Index	1
ER3	Large capacity electric chain crane (Single speed)	2 ~ 4
CF&CFC	Type Electric Chain Hoist (Standard)	5 ~ 6
cs	Type Electric Chain Hoist (Short)	7 ~ 8
csc	(Two Speed) Type Electric Chain Hoist (Short)	9 ~ 10
CS-LT	Type Low-Headroom Electric Chain Hoist	11 ~ 12
csv	Type Stepless Speed Control Electric Chain Hoist	13 ~ 14
CV	Type Electric Chain Hoist (Fast)	15 ~ 16
CA500	Type Electric Chain Hoist (Single phase voltage)	17
PT	Push Beam Trolley	18



Patent/Publication Number (TW) D187828

#### SIMPLY THE BEST HOISTS ON THE MARKET!!

A secondary mechanical load brake is an additional features on ER3 models only.

Aluminum Alloy Body - used in die casting process, light weight, strong structure and fast heat dissipation.

IP55 Rating - for dust and water spray resistant bodies.





#### Hook

Designed with double boom design, the card can slow down the swing caused by the single lifting point and increase the safety.





#### **Electrical Control Settings -**

The electrical box cover is equipped with a suspension strap for inspection and maintenance.

Overhanging buckle switch with emergency stop function.

High-strength forged hook - safety factor >5

With a secure snap - on card slot design for extended life.

#### **Digital Overload Protection Device (optional)**

The crane can be safely monitored and the crane can be weighed online.







Patent/Publication Number (TW) D187828

Connected in series to a motor circuit, a Current Driven Electromagnetic Brake does not release unless the motor is energized.

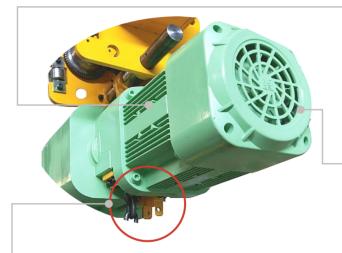
This concurrent drive increases safety of the circuit compared to separate circuits for the motor and the brake.



The brake surface is separated from the motor.



The brake connection tooth pressure angle is designed to be 30 degrees and can be repaired and replaced.





#### **Motor External Fan**

The brakes are waterproof and equipped with a fan to reduce heat build-up, improve motor running performance, and extend coil and bearing life.

#### **Friction Clutch**

Emergency overload protection to slip the force from the motor when subjected to an excessive load over the rated capacity. It is not easily compromised with changes in the surrounding temperature. In the case of irregular loading, this operates in advance to prevent the hoist body or load chain from being damaged.



#### **Limit Switch**

If the load is raised or lowered excessively, the limit switch is automatically stopped to prevent damage to the crane or chain.



Make sure that the hook is not damaged by a collision when it is in the extreme position.





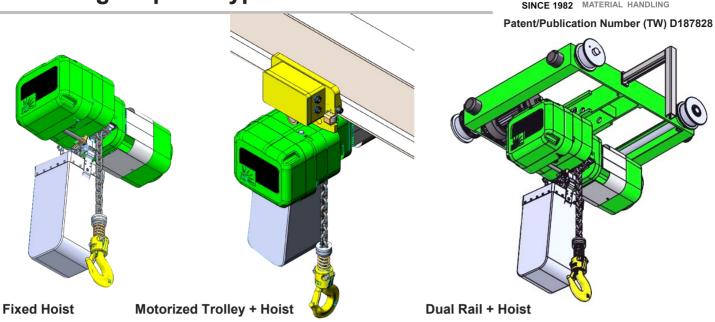
Uniquely-structured Chain Guide for smooth chain-feeding.



The guide chain, the guide chain roller and the limit device can be directly removed from the lower part of the main unit for convenient maintenance.

## **ER3 Single Speed Type**





#### 2.5 ~ 5 Ton

Torre	Hoist Only	ER3-025S	ER3-030S	ER3-050S				
Туре	Hoist + Trolley	ER3-025S-MT	ER3-030S-MT	ER3-050S-MT				
Rated Capacity (Ton)		2.5	3	5				
Lifting Motor Rat	ting %ED	60 %						
Hoist Speed	50Hz	5.7	5	2.5				
(M/min)	60Hz	6.8	6	3				
Hoist Motor (Kw)	60Hz	3.75	3.75	3.75				
Trolley Speed	50Hz	15	15	15				
(M/min)	60Hz	18	18	18				
Chain Dia X No.	Of Falls	Ф11.2 Х 1	Ф11.2 Х 1	Ф11.2 Х 2				

#### 7.5 ~ 20Ton

Torres	Hoist Only	ER3-075S	ER3-100S	ER3-100G	ER3-150G	ER3-200G
Туре	Hoist + Trolley	ER3-075S-MT	ER3-100S-MT	ER3-100G-MT	ER3-150G-MT	ER3-200G-MT
Rated Capacity	(Ton)	7.5	10	10	15	20
Lifting Motor Rat	ting %ED			60 %		
Hoist Speed	50Hz	1.7	1.4	2.5	1.7	1.4
(M/min)	60Hz	2	1.7	3	2	1.7
Hoist Motor (Kw)	60Hz	3.75	3.75	3.75 X 2	3.75 X 2	3.75 X 2
Trolley Speed	50Hz	10	10	10	10	10
(M/min)	60Hz	12	12	12	12	12
Chain Dia X No.	Of Falls	Ф11.2 Х 3	Ф11.2 Х 4	Ф11.2 Х 4	Ф11.2 Х 6	Ф11.2 Х 8



# **Standard Type Single Speed / Two Speed**

# CF · CFC SERIES



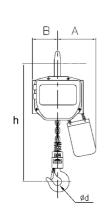
The AC-type power-off safety brake has a manual release function, which requires only one bolt to adjust maintenance, and an automatic brake clearance adjustment function.

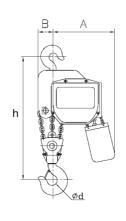


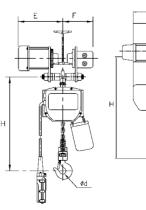


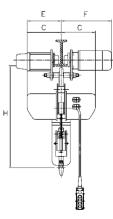
**Push-in Control Line Design** 

- ♦ 1~5 Ton (Single speed) Rated capacity
- ♦ 1~5 Ton (Two speed) Rated capacity
- ♦ Test load >125% Capacity
- ♦ Motors are available with various voltages.
- ♦ Helical Gearing used where practical to provide quiet operation.
- Plug-In Cables reduce maintenance time and installation.
- ◆ Chain sprocket is heat-treated and ground to a high tolerance ensures smooth lifting.
- ◆ Lower Hook is heat-treated and equipped with safety latch and 360 degree swiveling.
- Push button is rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked.
- ♦ Torque of brake > 125% Rated torque of motor.
- ◆ Lifting hook is made of high grade steel and is equipped with a safety latch.
- Safety factor of hook and chain sprocket and











## **CF Standard (Single Speed)**

<b></b>	Hoist Only	1CF	2CF	3CF	5CF					
Туре	Hoist + Trolley	1CF-MT	2CF-MT	3CF-MT	5CF-MT					
Rated Capacit	y (Ton)	1 2		3	5					
Hoist Speed	50Hz	7	3.5	2.3	1.4					
(M/min)	60Hz	8.4	4.2 2.8		1.7					
Hoist Motor (F	50Hz		1.	3						
HOIST WIOTOI (F	60Hz	1.6								
Trolley Speed 50Hz		15	15	15	15					
(M/min)	60Hz	18	18 18 18		18					
Chain Dia X N	o. Of Falls	Ф7.1 Х 1	Ф7.1 Х 2	Ф7.1 Х 3	Ф7.1 Х 5					
Min. Rad. Cur	vature (m)	1.3	1.5	1.8	1.8					
I Beam (mm)		75 ~ 125	100-	-150	125~175					
	A/B	200/170	200/170	250/300	300/360					
Approx.	Ød	40	45	55	65					
Dimensions	С	263	263	263	263					
(mm)	H/h	613/560	720/665	880/820	986/925					
	E/F	277/180	335/225	335/227	375/238					
N W (Ka)	Hoist Only	53 (58)	60 (70)	71 (85)	95 (120)					
N.W. (Kg)	Hoist + Trolley	78 (83)	90 (100)	125 (140)	165 (190)					

## **CFC Standard (Two Speed)**

<b>T</b>	Hoist Only	1CFC	2CFC	3CFC	5CFC						
Type	Hoist + Trolley	1CFC-MTC	2CFC-MTC	3CFC-MTC	5CFC-MTC						
Rated Cap	acity (Ton)	1	2	3	5						
Hoist Spee	ed 50Hz	5.5/1.8	2.7/0.9	1.8/0.6	1.1/0.36						
(M/min)	60Hz	6.6/2.2	3.3/1.1	2.2/0.7	1.3/0.4						
Hoist Motor 50Hz		1.3/0.45									
(Kw) 60Hz		1.6/0.55									
Trolley Speed 50Hz		20/6.6	18	17/5.6							
(M/min)	60Hz	24/8	22	20/6.6							
Chain Dia	X No. Of Falls	Ф7.1 Х 1	Ф7.1 Х 2	Ф7.1 Х 3	Ф7.1 Х 5						
Min. Rad.	Curvature (m)	1.3	1.5	1.8							
I Beam (m	m)	75 ~ 125	100	125~175							
	A/B	200/170	200/170	250/300	300/360						
Approx.	Ød	40	45	55	65						
Dimen- sions	С	263	263	263	263						
(mm)	H/h	613/560	720/665	880/820	986/925						
	E/F	277/180	335/225	335/227	375/238						
NI M (Ka)	Hoist Only	55(60)	62(72)	73(87)	97(122)						
N.W. (Kg)	Hoist + Trolley	83(88)	95(105)	130(145)	170(195)						

 $<sup>\</sup>star$  NOTE: (H) IN QUOTES MEANS LIFT MEASURE.



# CS SERIES

#### **Ultra Short Single Speed Type**



### **Suitable For All Kinds of Spaces**

- ♦ 1/6~2 Ton Rated Capacity Test load >125% Capacity Limit switch is easy to remove and install.
- ♦ Motors are available with various voltages & frequency.
- ♦ Friction torque limiter prevents the misuse of the hoist.
- ♦ It gives protection from overload, accidental over-hoisting, and over-lowering.
- ◆ Fail safety brake ensuring the load is always stopped when the control button is released.
- ♦ Torque of brake > 125% Rated torque of motor.
- ♦ Chain sprocket is heat-treated and ground to a high tolerance ensures smooth lifting.
- ◆ Lifting hook is made of high grade steel and is equipped with a safety latch.
- ♦ Safety factor of hook and chain sprocket and chains > 5.

## Also known as a safety clutch installed in the power transmission.

A gear clipped in the spring composite friction surface, and nut can be adjust the spring force to limit the size of its drive torque, when the overload torque exceeds the set value, the torque limiter will have a separation, in order to effectively protect the driven machinery and prevent **over-load** or **over-winding**.

#### **Waterproof Electrical Box Structure**

Patent/Publication Number (TW) M545390 U

The upper and lower cover sets are designed to be waterproof and drained. The side walls are provided with windows on both sides for quick and easy inspection of wiring and maintenance work.

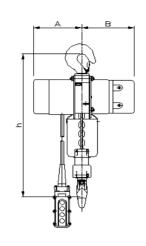


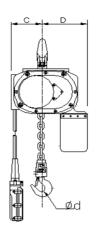
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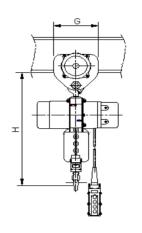
# **CS Ultra Short Single Speed Type**

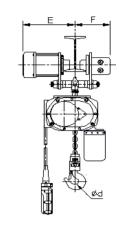












Type	Hoi	ist Only	1/6CS	1/4CS	1/2CS	1/2CSX	1CS	2CS		
Туре	Hoist	+ Trolley	1/6CS-MT	1/4CS-MT	1/2CS-MT	1/2CSX-MT	1CS-MT	2CS-MT		
Rated Capa	Rated Capacity (Ton)		0.16	0.25	0.5	0.5	1	2		
Hoist Spee	d	50Hz	12	7.6	3.8	7.6	3.8	1.9		
(M/min)		60Hz	14	9.2	4.6	9.2	4.6	2.3		
Hoist Moto	r	50Hz		0.34			0.7			
(Kw)		60Hz		0.4			0.8			
Trolley Spe	ed	50Hz	17	17	17	17	15	15		
(M/min)		60Hz	20	20	20	20	18	18		
Chain Dia	Chain Dia X No. Of Falls			Ф6.3	3 X 1		Ф7.1 Х 1	Ф7.1 Х 2		
Min. Rad. C	Min. Rad. Curvature (m)			1.2	1.2	1.3	1.3	1.5		
I Beam (mn	I Beam (mm)				75 ~ 125			100 ~150		
		Α	200	200	200	235	235	235		
		В	210 210 210		210	230	230	230		
		С	168							
		D			18	30				
Approx. Dimensions		G	216	216	216	216	240	240		
(mm)		h	380	380	380	395	395	460		
		Ød	35	35	35	37	37	40		
		Н	435	435	435	435	445	530		
		E	245	245	245	245	277	332		
		F	150	150	150	150	180	225		
N.W. (Kg)	ŀ	Hoist		35 (37)		38 (	42)	49 (56)		
14.44. (179)	Hoist	+ Trolley		52 (55)		63 (	67)	80 (87)		

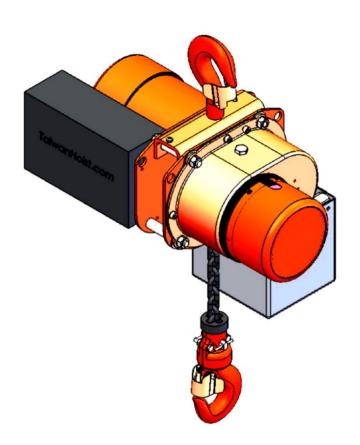
**<sup>★</sup> NOTE: (H) IN QUOTES MEANS LIFT MEASURE.** 



## CSC SERIES

#### **Suitable For All Kinds of Spaces**

- ◆ Test load >125% Capacity Limit switch is easy to remove and install.
- ♦ Motors are available with various voltages & frequency.
- Friction torque limiter prevents the misuse of the hoist.
- ♦ It gives protection from overload, accidental over-hoisting, and over-lowering.
- ◆ Fail safety brake ensuring the load is always stopped when the control button is released.
- ♦ Torque of brake > 125% Rated torque of motor.
- Chain sprocket is heat-treated and ground to a high tolerance ensures smooth lifting.
- ◆ Lifting hook is made of high grade steel and is equipped with a safety latch.
- ◆ Safety factor of hook and chain sprocket and chains > 5.





## Also known as a safety clutch installed in the power transmission.

A gear clipped in the spring composite friction surface, and nut can be adjust the spring force to limit the size of its drive torque, when the overload torque exceeds the set value, the torque limiter will have a separation, in order to effectively protect the driven machinery and prevent over-load or over-winding.

#### **Waterproof Electrical Box Structure**

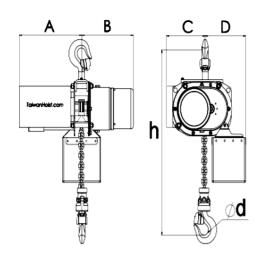
Patent/Publication Number (TW) M545390 U

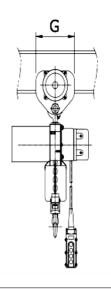
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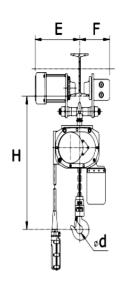


## **CSC Ultra Short Two Speed Type**









Turne	Но	ist Only	1/4CSC(H)	1/2CSC(H)					
Туре	Hois	t + Trolley	1/4CSC(H)-MT	1/2CSC(H)-MT					
Rated Cap	acity	(Ton)	0.25	0.5					
Hoist Spee	ed	50HZ	15.3 / 2.5	7.6 / 1.2					
(M/min)		60HZ	18.4 / 3	9.2 / 1.5					
	Hoist Motor 50HZ		0.62 / 0.1						
(Kw)		60HZ	0.75 / 0.12						
Trolley Sp	eed	50HZ	17	17					
(M/min)		60HZ	20	20					
Chain Dia	Chain Dia X No. Of Falls		Ф6.3	X 1					
Min. Rad.	Min. Rad. Curvature (m)		1.3	2					
I Beam (m	m)		75~125						
		Α	235	235					
		В	230	230					
		С	168	168					
		D	180	180					
Approx Dimension		G	240	240					
(mm)	7115	h	395	395					
		Φd	37	37					
		Н	445	445					
		E	277	277					
		F	180	180					
N.W. (Kg)		Hoist	39 (43)						
14.44. (ING)	Hoist + Trolley		63 (6	67)					

**<sup>★</sup> NOTE: (H) IN QUOTES MEANS LIFT MEASURE.** 



# CS - LT SERIES Low Lift Single Rail Single Speed Type

### **Suitable For All Kinds of Spaces**



The Low Headroom CS-LT series is the most economy solution to meet your toughest clearance requirements for special applications.

Allows for maximum hook height in tight clearance applications.

- ♦ 160Kg to 2 ton capacity.
- QUIET OPERA TION: The sprocket chain wheels are heat-treated and ground to a high tolerance. This ensures especially smooth lifting.
- ◆ The lifting hook is made of high grade steel and is equipped with a safety latch.
- ◆ PREVENT OVERLOADS: The friction torque limiter prevents the misuse of the hoist. It gives protection from overload, accidental over-hoisting, and over-lowering.
- ♦ The motors are available with various voltages. For operator safety, low voltage control is standard.
- ◆ Fail-safe brake torque of brake > 150% rated motor torque.
- ♦ Trolley wheel treads compatible with I or H beams.



## Also known as a safety clutch installed in the power transmission.

A gear clipped in the spring composite friction surface, and nut can be adjust the spring force to limit the size of its drive torque, when the overload torque exceeds the set value, the torque limiter will have a separation, in order to effectively protect the driven machinery and prevent over-load or over-winding.

#### **Waterproof Electrical Box Structure**

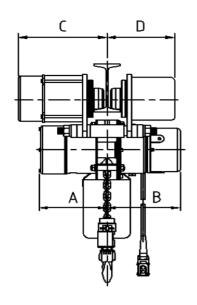
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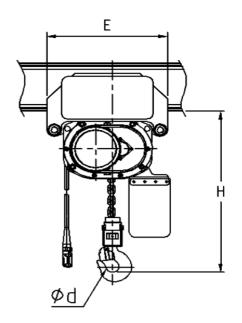
The upper and lower cover sets are designed to be waterproof and drained. The side walls are provided with windows on both sides for quick and easy inspection of wiring and maintenance work.



## **CS - LT** Low Lift Single Rail Single Speed Type







Тур	е		1/	6CS-L	т.	1/	4CS-L	т.	1/	2CS-L	.Т	1	CS-L	Т	2	CS-LT	Г
Rated Capa	city (T	on)		0.16			0.25		0.5		1			2			
Hoist Speed	ŧ	50Hz		12			7.6			3.8			3.8			1.9	
(M/min)	(M/min) 60H			14			9.2			4.6			4.6			2.3	
<b>Hoist Motor</b>	(Kw)			0.4			0.4			0.4			8.0			8.0	
Trolley Spee	ed !	50Hz		17			17			17			15			15	
(M/min)	•	60Hz		20			20			20			18			18	
Chain Dia X	No. Of	Falls	Ф	6.3 X	1	Ф	6.3 X	1	Ф	6.3 X	1	Φ	7.1 X	1	Φ	7.1 X	2
I Beam (mm)	)		7	75~12 <u>!</u>	5	75~125			75~125		75~125		5	100~150			
	Α	4	192		192			192		235			235				
	В	3	208		208		208		230				230				
	Е	<b>E</b>		346		346		346		340		380					
A	Ø	d		35			35			35			37		40		
Approx. Dimensions	Steel V	Width	н	С	D	н	С	D	н	С	D	н	С	D	н	С	D
(mm)	7	5	314	245	190	314	245	190	314	245	190	340	250	190		*	
	10	00	314	258	202	314	258	202	314	258	202	340	263	202	400	310	202
	12	25	314	271	215	314	271	215	314	271	215	340	276	215	400	322	215
	15	50		*		*		*		*			400	335	225		
N.W. (	(Kg)			52			52			52		65			86		



## **CSV** SERIES

#### **Suitable For All Kinds of Spaces**

Traditional hoist & Crane using single-speed or dual speed motor design, so operator can feel intense vibration when motor start & stop. And it is hard to control the lowering speed when you want to position the load.

Through the use of our CSV type "Stepless Hoist Speed Control electric hoist", the load in the direction of Up. Down. East. West. South. North way handling, the user can control speed, with the following advantages in any time by finger -

- Positioning load up within a few mm.
- ♦ It can reduce rampant load shaking in handling and position process.
- ♦ It can reduce vibration of building caused by the crane, especially suitable for precision manufacturing.



#### < Application >

- ♦ The need to move quickly with the displacement and at the same time the need for sophisticated group with the Legislative Assembly, and so on.
- Mold removal and position
- ♦ Removal of the items are broken
- ♦ Precision instruments and transportation equipment

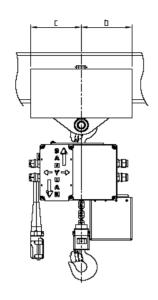


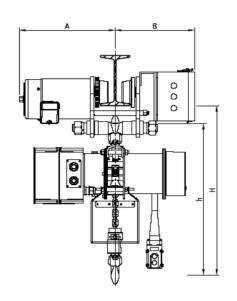
Also known as a safety clutch installed in the power transmission.

A gear clipped in the spring composite friction surface, and nut can be adjust the spring force to limit the size of its drive torque, when the overload torque exceeds the set value, the torque limiter will have a separation, in order to effectively protect the driven machinery and prevent over-load or over-winding.

## **CSV Steeples Speed Control**







Torres	Hoist Only	1/2CSVL	1/2CSVH	1CSVL					
Туре	Hoist + Trolley	1/2CSVL-MTC	1/2CSVH-MTC	1CSVL-MTC					
Rated Capacity	y (Ton)	0.5		1					
Hoist Speed	50HZ	12 ~ 0.8	5.9 ~ 0.38	3.8 ~ 0.38					
(M/min)	60HZ	14 ~ 0.9	7.1 ~ 0.46	4.6 ~ 0.46					
Hoist Motor (K	50HZ		0.4						
HOIST WOLDT (N	60HZ								
Trolley Speed	50HZ		12.2 / 10.2						
(M/min)	60HZ								
Chain Dia X No	o. Of Falls	Ф6.3 Х 1	Ф7.1 Х 1						
Min. Rad. Curv	ature (m)		1.5						
I Beam (mm)		75~125							
	Α		360						
	В		275						
Approx.	С		200	200					
Dimensions	D		200						
(mm)	h	390	390	405					
	Standard H	445	445	445					
	Low Lift H		400						
N.W. (Ka)	Hoist	46 (49)							
N.W. (Kg)	Hoist + Trolley		88 (92)						

 $<sup>\</sup>star$  NOTE: (H) IN QUOTES MEANS LIFT MEASURE.



# CV SERIES



### **Double Brake System**

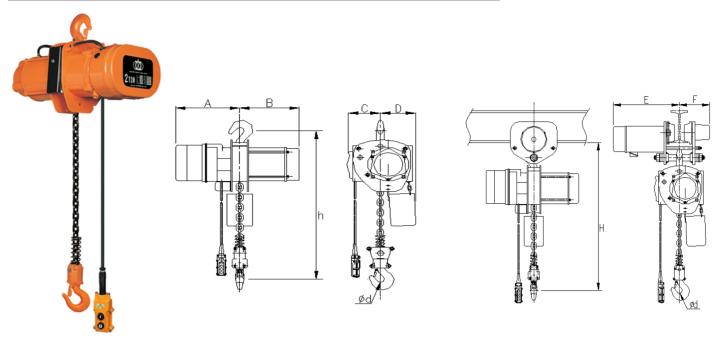
- ✓ Mechanical safety brake
- Electromagnetic power off safe brake
- ♦ 2~7.5 Ton Rated Capacity
- ♦ Test load > 125% Capacity
- ◆ Dual brake system = Mechanical load brake + Fail-safe DC brake.
- ♦ Toque of each brake > 125% rated torque of motor.
- ♦ Motors are available with various voltages.
- ♦ Helical Gearing used where practical to provide quiet operation.
- ◆ Chain sprocket is heat-treated and ground to a high tolerance ensures smooth lifting.
- ◆ Lower Hook is heat-treated and equipped with safety latch and 360 degree swiveling.
- ◆ Push button is rain-proof plastic for severe impact and corrosive atmosphere resistance and mechanically interlocked.



Mechanical brake braking force > 150% rated transmission torque

# **CV Powerful Single Speed Type**





T	Hoist Only	2CV	3CV	5CV	7.5CV					
Туре	Hoist + Trolley	2CV-MT	3CV-MT	5CV-MT	7.5CV-MT					
Rated Capa	acity (Ton)	2	3	5	7.5					
Hoist Spee	d 50Hz	6.7	5.6	2.8	1.8					
(M/min)	60Hz	8	6.7	3.3	2.2					
Hoist Moto	r 50Hz		2.5							
(Kw)	60Hz		3.7	75						
Trolley Spe	eed 50Hz	15	15	15	10					
(M/min)	60Hz	18	18	18	12					
Chain Dia	X No. Of Falls	Ф10 Х 1	Ф10 Х 1	Ф10 Х 2	Ф10 Х 3					
Min. Rad. C	Curvature (m)	1	.5	1.8	2.5					
I Beam (mr	n)	100-	~150	125~	-175					
	Α									
	В		35							
	С	180	180	180	320					
Approx.	D	200	200	245	300					
Dimensions	h	620	700	820	1000					
(mm)	Ød	45	58	60	100					
	Н	690	780	900	1070					
	E	325	330	350	-					
	F	225	227	238	-					
N.W. (Kg)	Hoist	80 (87)	84 (91)	117 (130)	140 (160)					
14.77. (119)	Hoist + Trolley	112 (119)	124 (131)	180 (193)	210 (230)					

 $<sup>\</sup>star$  NOTE: (H) IN QUOTES MEANS LIFT MEASURE.



# Single Phase Voltage

# 110/220V

#### **Electric Chain Hoist**

### Alloy steel chain for electric cranes made in Japan

The fracture safety factor is more than 5 times.

Guaranteed surface hardness HV500, test load 130% Hook with thrust bearing, 360 degree rotation under load

Chain end stopper material FCD70,

The fracture safety factor is more than 5 times.





Type : CA500

Rated Capacity: 500KG Hoist Speed: 6 M / min

Chain Length: 3M

N.W.: 19KG

**Standard Equipment** 

◆ Plug-in power cord

♦ Chain bag

 Quick release overhang button with emergency stop button



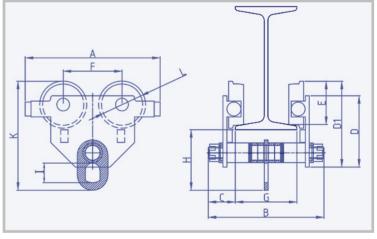
# Hand Trolley

Rated Capacity
1000 Kg
500 Kg

I Beam 64-136mm







Rated Type Capacity			Approx. Dimensions (mm)												
Туре	ype Capacity (Kg)	Α	В	С	D	D1	Е	F	G	н	ı	J	K	L	N.W. (Kg)
PT-05	500Kg	226	245	48	125	148	65	99	64-136	112	32	25	187	56	6
PT-1	1000Kg	274	235	55	145	175	88	119	64-136	123	40	30	221	84	10



# SAN YUAN CHAIN HOIST CORP.

#### **Network**

SAN YUAN meets customers' needs through the total network which can supply speedy design, production, sales, service and engineering for industrial equipment and systems. For further information, please contact your nearest sales representative.

Information in this brochure is subject to change without notice.