



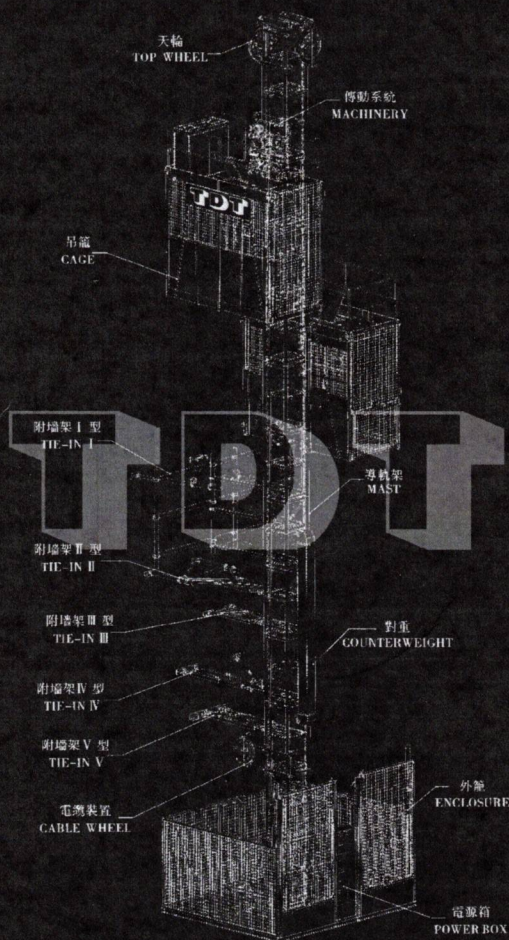
无锡华科机械设备有限

无锡市锡山区机械装备产业园胶陈

Model	Speed	Capacity	Cage size	Hosit height
SC120/120GD	0-36m/min	1200kg/1200kg	3.2*1.5*2.5m	48m
SC320/320GD	0-36m/min	3200kg/3200kg	3.6*1.5*2.5m	48m
SC320/320GD	0-36m/min	3200kg/3200kg	4.2*1.5*2.5m	48m
Additional heigt for 10m (额外增加10米)				
Freight charge in Domestic(WUXI to ShangHai)无锡到上海的运费				
Customes clearance fee报关费用				
Freight charge ShangHai to Auckland上海到奥克兰				
Loading bay-door门的费用				
Total总价				

Remarks: 1) The prices include tax. 价格已含税 2) The lift price also include hot galv:

Manufactured June 2019



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概 述 INTRODUCTION

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SC型施工升降機是一種靠齒輪齒面傳動的電梯，主要用於高層建築施工的人、貨運輸，整機的工作級別為A8。

這種電梯可以非常方便地自行安裝和拆卸，並可隨著建築物的增高而增高。

SC型施工升降機有非常可靠的電氣和機械安全系統，是建築施工中安全、高效的垂直運輸設備。

SC Hoist is a Rack and Pinion EL. Lift, used on construction site for transportation of personnel and materials, Hoist function degree is A8.

It is installed and dismantled conveniently and can grow as high as the building grow in height.

SC hoist has reliable electrical and mechanical safety device. It is efficient and safety vertical transporting equipment.

主要型號編制說明

1. SC100表示單籠，載重量為1000kg的施工升降機。
2. SC110TD表示單籠，傳動機構在吊籠上方，載重量為1100kg的施工升降機。
3. SCD200TD表示雙籠，帶對重裝置，傳動機構在吊籠上方，載重量為2000kg的施工升降機。
4. SC200/200TD表示雙籠，傳動機構在吊籠上方，每個吊籠載重量為2000kg。
5. SCD200/200TD表示雙籠，帶對重裝置，傳動機構在吊籠上方，每個吊籠載重量為2000kg。
6. SCQ200/200TD表示雙籠，傳動機構在吊籠上方，每個吊籠載重量為2000kg，導軌架傾斜。
7. SCD270/270GZ表示雙籠，帶對重裝置，每個吊籠載重量為2700kg的中速施工升降機。
8. SCD200/200G表示雙籠，帶對重裝置，每個吊籠載重量為2000kg的高速施工升降機。
9. SCD320/320GS表示雙籠，帶對重裝置，每個吊籠載重量為3200kg的高速施工升降機。

Main Hoist Denomination

1. SC100, Single cage, and load capacity: 1000kg.
2. SC110TD, Single cage, and the motor on the top of cage, load capacity: 1100kg.
3. SCD200TD, Single cage, with counterweight, and the motor on the top of cage, Load capacity: 2000kg.
4. SC200/200TD, Twin cage, and the motor on the top of cage, load capacity of one cage: 2000kg.
5. SCD200/200TD, Twin cage, with counterweight, and the motor on the top of cage, Load capacity of one cage: 2000kg.
6. SCQ200/200TD, Twin cage, and the motor on the top of cage, leaning mast, load capacity of one cage: 2000kg.
7. SCD270/270GZ, Twin cage, with counterweight, Load capacity of one cage: 2700kg.
8. SCD200/200G, Twin cage, with counterweight, Load capacity of one cage: 2000kg, high speed.
9. SCD320/320GS, Twin cage, with counterweight, Load capacity of one cage: 3200kg, high speed.

外籠

外籠由固定標準節的底盤和防護圍欄組成。單籠外籠可通過增加一些配件改變為雙籠外籠。

外籠門由機械和電氣鎖定，除非吊籠落下來，外籠門將不能打開。如外籠門未開，吊籠將不能啓動。

根據用戶需要，外籠可帶電源櫃或檢修門。

標準節

每節標準節長1508mm，截面中心距一般為650X650mm，齒條模數為8mm。

單籠升降機的標準節有一段齒條，通過增加一根齒條可以變為雙籠升降機的標準節。

多節標準節通常用 M24 螺栓相連接組成導軌架，通過附牆架與建築物固定。做為吊籠上下運行的導軌。

根據用戶需要標準節可採用熱浸鍍處理，以提高標準節的強度及防腐性能。

附牆架

有多種型號的附牆架，根據需要選擇其中任一型。附牆架可在一定範圍內調節某些尺寸。

沿導軌架高度，一般每隔3-10.5m安裝一個附牆架。

根據用戶需要，附牆架可採用熱浸鍍處理，以提高附牆架的強度及防腐性能。

吊籠

吊籠為一種鋼結構，並設有進、出口門(即單、雙開吊籠門)，可通過調整下門輪的位置，以確保門與兩軌道之間的間隙一致。

吊籠上設有安全鉤(亦可設置電氣控制)以防止吊籠從導軌架頂部脫離。

在安裝時，吊籠頂部可作為工作平臺，由安全鋼杆欄住。頂上有一蓋板門，通過配備的專用梯子，可方便地攀登到頂上進行安裝和維修。

根據用戶需要，吊籠可帶翻轉椅或操作室。

根據用戶需要，吊籠兩側可採用衝孔鋁板裝飾。

根據用戶需要，吊籠兩側可採用衝孔鋁板裝飾。

Ground Enclosure

Consists of a base to support the mast and railing. A single cage enclosure can be transformed into a twin cage enclosure by adding just a few parts.

The gate is interlocked mechanically and electrically. It can not be opened unless the cage is at the landing. The cage will not start unless the gate is closed.

Select power structure or check door according to need.

Mast Section

Each section is 1500mm long and provided with one rack for single cage hoist or two racks for twin cage hoist.

The sections are bolted together with M24 screws and nuts to form mast. The mast is tied to the building with tie-in and is the guide-rail of the cage. Hot dip galvanized according to need.

Tie-in

There are several types of tie-in. Select one of them according to need. Tie-in are available in variable sizes.

Distance between the tie-in is about 3-10.5m along the mast.

Hot dip galvanized according to need.

Cage

Cage consists of steel structure. Setting entrance and exit gates, by adjusting the situation of down gate roller, for the sake of guarantee enough space between door and two track.

Safety hook on the cage main frame prevents the cage from climbing off the top.

The cage roof with safety railing serves as working platform during erection. One can easily get up on the roof for erection and maintenance because of a trap door in the roof and a ladder in the cage.

Select chair or operate enclosure according to need.

Select decoration way according to need.

Select aluminium plate with hole according to need.

傳動機構

由電動機、電磁制動器、彈性聯軸結、蝸輪蝸杆減速機及帶動齒輪等組成。傳動機構彈性聯結在吊籠上，通過齒輪與齒條啮合，使吊籠運行。

傳動機構配備有變頻調速系統，提高了起制動的平穩性。升降速度可隨意調控。

根據用戶需要可採用德國SEW減速機及電機。

根據用戶需要，傳動機構可帶變頻調速系統，以提高起制動的平穩性；工作效率高；升降速度可方便控制；啓動電流小於額定電流；機械磨損降低，易損件壽命長；能源節約效果顯著。

限速器

單籠限速器由外殼、制動鉗鼓、離心塊、彈簧等組成。當吊籠超速時，限速器裏的離心塊克服彈簧拉力帶動制動鉗鼓旋轉，與其相連的螺釘同時旋進，制動鉗鼓與外殼接觸逐漸增加摩擦力，確保吊籠平穩制動。

三籠限速器的制動原理同單籠限速器完全一樣，具有較大的制動力矩。

限速器安裝在吊籠內。

Hoist Machinery

Consists of electrical motor, electric-magnetic brake, coupling reducing device and pinions etc. The cage climbs by means of pinions in engagement with rack.

Select alternating system to raise or reduce smoothly, the lifting speed can be controlled.

Select motor and reducing device of SEW according to use.

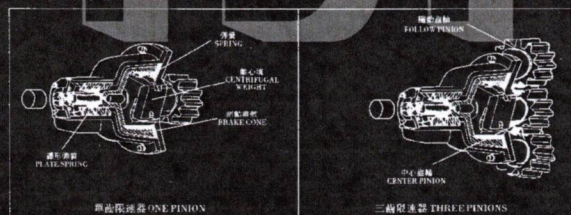
Select alternating system according to need to raise or reduce smoothly; high efficiency; speed can be controlled easily starting current is lower than rated current; the mechanical wear is reduced, power saves efficiently.

Safety Device

Consists of a circular cone, brake cone, spring, centrifugal weight and so on. When a cage over-speeds, the centrifugal weight will overcome the pressure of spring, causing the brake cone to rotate and the shaft pointed to brake cone will forward spirally. The friction force between the brake cone and crust will be increased gradually ensuring that the cage is stopped gradually.

Three-pinon safety device is similar of one pinion, it has big trip force.

The safety device is in cage.



對重

對重主要用于在不改變電能消耗下增加升降機的載重量。對重由鋼絲繩通過導軌架頂部的天輪懸掛于吊籠頂部。

升降機的進出通道不允許在對重下方連接對重的鋼絲繩為兩根。

天輪根據用戶需要可用掛式天輪或串式天輪，導軌架加高時，掛式天輪比較方便。

Counterweight Equipment

Used to increase the capacity of the hoist at unchanged power consumption. The counterweight wire rope goes via top wheel to hang above the cage roof.

Under counterweight, not allow to set footway. The counterweight has two rope.

The top wheel is hanging or sitting, the hanging wheel is freely while adding mast.

吊杆

吊杆安裝在吊籠頂上。在裝、拆導軌架時用來起吊標準節或附牆架等零部件。

手動吊杆上的手搖卷揚機具有制動功能。起吊重物時按順時針方向搖動搖把，停止搖動并平穩的鬆開卸把後，卷揚機即可制動。放下重物時，則按相反方向搖動。

吊杆可分為普通吊杆、帶壓力軸承的手動吊杆及帶壓力軸承的電動吊杆三種。其額定載重量通常為250kg。

根據用戶需要可選用電動吊杆。

電纜導向裝置

用于使接入吊籠內的電纜隨籠在吊籠上下運行時，不偏離電纜通道，保持在固定的位置，確保吊籠正常運行。

根據用戶需要，電纜導向裝置可選用電纜筒、電纜小車、電纜滑車或滑觸線。

電纜筒結構比較簡單，無專門的電纜導向軌道，因而受風力影響較大，通常只用于安裝高度不大或風力較小的場合。

電纜小車又稱自軌道或電纜導向裝置。安裝在吊籠的半部或對面的導軌架上。結構簡單，安裝方便，該型升降機的導軌的主立管不僅是吊籠運行的軌道，也是電纜小車的導向的軌道。因而受風力的影響較小，適用的場合非常普遍。

電纜滑車為附加軌道式電纜導向裝置。結構複雜，對加工鋼軌道的制作及安裝的要求較高因而僅適用於特殊要求的場合。

滑觸線為帶電的絕緣導軌，沿導軌架高度與導軌架連接，安裝在吊籠上的導電頭始終與帶電導軌接觸，從而實現了吊籠的上下運行。該導電裝置結構比較複雜，安裝要求較高，但由于其導軌的壽命較長，檢修方便，導電截面積大，因而非常適用於安裝高度很高或不需拆卸的升降機等特殊場合。

Lifting Device

The lifting device is fitted on the cage roof used to lift up mast sections, tie-in and other parts.

A brake is installed on the winch of the lifting device. Loose the handle, the winch will stop. Lift up something by rotating handle clockwise or put down something by rotating handle anticlockwise.

There are common lifting device, or with pressure bearing, or with pressure bearing with electric device the lifting weight often is 250kg.

Select electric lifting device according to need.

Cable Guiding Device

Used to keep the cable from leaving the hoist-way when cage is climbing.

Select cable basket, trolley frame, cable wheel or slide touch line according to need.

The cable is a very simple structure and without special cable guide rails, thus it can be affected by the force from wind. Normally, it is only used in the hute or no wind occasion to avoid that affection.

Namely called guide rail or cable guiding device with simple and plate structure. Assembled under or on the opposite of the mast tower, which is easy to be installed. The main erecting pipes are not only guiding rail for the cage but also for the cable trolley. Since it's not so vulnerable to be affected by wind that fit for normal occasions.

As an accessorial rail type-guiding device with more complicated structure, it is endowed with higher requirements for design and installation of the appended notching-steel frame. Thus it only used for some very particular occasions.

Slid touch wire as a power guiety device, fullrison element is like this. An insulating guide rail with electrical power attached along with the total mast tower and always connect with power head that installed on the cage, which make the can drive up and down. Although with complex structure and ended higher requirements for the installation, this slid contacting wire have many merits, for instance: long life, wider section area and easily to be repaired or checked. Thus it is applicable to some particular occasion that with lower install height or non dismantle.

安全電控系統

安全電控系統由電路裏設置的各種安全開關及其它控制器件組成。在升降機運行發生異常情況時，將自動切斷升降機電源，使吊籠停止運行，以保證升降機的安全。

吊籠的單、雙門上及吊籠頂部話板門上均設有安全開關。如任一門開啓或未關閉，吊籠均不能運行；鋼絲繩端部處設有斷繩保護開關；吊籠上裝有上、下限位開關、減速限位開關和極限開關。當吊籠行至上、下終端時，可自動停車。若此時因故不停車超過安全距離時，極限開關動作切斷總電源，使吊籠制動。此外在限速器尾蓋內設有限速保護開關，限速器動作時，通過電線切斷總電源。

超載保護器

根據用戶需要，吊籠內配置有超載保護器。當吊籠超載時，警鈴報警，吊籠不能啟動。

樓層呼叫系統

根據用戶需要，可配置升降機樓層呼叫系統。由設置在各樓層的呼叫按鈕，通過無線電發射器，將信息傳遞到吊籠內的接收頭，當樓層有人呼叫時，吊籠內的主機有樓層顯示和語音播報。

自動平層

根據用戶需要，可通過操作吊籠內通層按鈕或各樓層處按鈕，吊籠可自動運行到所需樓層。通過手動手柄開關操作，吊籠也可手動運行到所需高度。

Safety Control System

Consists of some safety switches and other control apparatus. When a hoist travels abnormally, the system will cut the power automatically and the cage will stop.

Safety switches are installed on cage gates and the trap door of cage. The cage will not start unless all gates of cage are closed. A slack rope switch is installed on the cage top. There are top and bottom limit cams, delay switch cams, and 3-phase cams on a cage. When the cage travels to the top or bottom landings, it can be stopped automatically. If the cage is not stopped within the safety range, the 3-phase switches will cut the power to stop, the cage will be braked. There is a micro switch in the safety device.

Overload device

Select overload alarm equipment in cage according to need, the alarm rings and cage can't start while overload.

Layer-calling system

Select layer-calling system according to need, when calls at layer, the receiver receive the information, picture and sound happen on main unit in cage.

Auto-layer stop

Operate layer button in cage or at any layer according to need. The cage can reach the layer automatically. Operate handle switch, the cage can reach any height.

