



上海振华重工 (集团) 宁波传动机械有限公司 ZPMC NINGBO TRANSMISSION MACHINERY CO.,LTD. 宁波伟隆传动机械有限公司 NINGBO WEILONG TRANSMISSION MACHINERY CO.,LTD.

## 一、DLC系列电缆拖车简介

DLC系列电缆拖车可使用于环境温度在-30℃~+50℃之间,相对湿度不大于95%,最大可操作风速8级(蒲福级),最大可承受风速12级(蒲福级),最大可承受风速12级(蒲福尔、

等各种工况。并具有以下特点: 行走轮、侧水平轮、反滚轮都采用 聚胺脂材料,其具有耐磨性好,有弹性 抗冲击,噪声低等特点,正常使用寿命 为20000小时;

电缆拖车的前后两端安装了橡胶缓,能有效吸收冲击能量,并有极佳 冲块,

的抗撕裂性能,使用寿命长; 标准件采用热浸锌或不锈钢材质制作,抗腐蚀性好; 特别的设计使各行走轮、侧水平

轮、

的工况。

#### I. Brief

DLC series cable towing trolley is use at workplace as: ambient temperature at range of -30°C ~+50°C, relative humility less than 95%, maximum operating wind speed 8 class, maximum carrying wind speed is up to 12 class.

The walking wheel, side horizontal wheel, reverse rolling wheel are made of polyurethane with flexibility and little noise, their normal life can be 20000.

Rubber dampers are install on front and behind end, for absorbing impact energy, and also with tearproof performance, long service life.

standard parts are made by stainless steel or galvanized.

Special design of all wheels with water proof bearings, and are all self lubricant bearings, easy to maintenance.

Series DLC50 towing trolley suit for high speed and heavy loading working condition.



●1部首拖车 ●1部托拖车(见图3),托拖车只在 中拖车大于10部以上才要求装,并要求 中抱年人于10部以上才安浓表,并安浓 施加一个动力给托拖车进行运行。托拖 车安装于所有中拖车的中间。 ●所有的拖车都运行于一个导轨, 所有的电缆都平铺在鞍梁板上。

●所有的拖车都要正确匹配相对应 的运行导轨(运行导轨为20#和25#工字 钢)

●其它另行约定。

active towing trolley only append when cable trolley's quantity more than 10 pieces. the active towing trolley need a power to run, it is installed on middle of all cable trolleys.

All towing trolleys run on one railway, all cable are align on nek surface.

All trolleys must run on correct railway (20# and 25#H steel.).

Other conditions can be discussed with manufacturer.

## 二、结构型式和标记

DLC系列电缆拖车分为多种型式结构,具体选型请参照下列标记示例:

标记示例:DLC(A)(B)(C)(D) DLC为吊挂式电缆拖车代号 (A)为40,表示鞍梁板规格330 (A)为50,表示鞍梁板规格530 (B)为100,表示电缆中车 (B)为200,表示电缆首车 (B)为200,表示电缆首车 (B)为300,表示电缆尾车 (B)为400,表示电缆托车 (C)为A,表示配20#工字钢 (C)为B,表示配25#工字钢 (D)为X,表示卸船机刚性牵引 (D)为XL,表示卸船机柔性牵引 (D)为S,表示双层吊挂拖令

<u>DLC 40 100 A X</u>,表示鞍梁板规格 330,电缆中车,配20#工字钢导轨,用 于卸船机刚性牵引。

电缆拖车的规格型号根据 《电缆拖车每跨电缆参数表选型 表》中的每跨电缆参数进行,详 见表1:

#### 表1:电缆拖车每跨电缆参数选型

## **II.STRUCTURE AND SIGN**

DLC series towing trolley have several type, below for selection.

Sign example: DLC(A)(B)(C)(D)

DLC, Code for towing trolley.

(A) is 40, express as nek surface is 330 width

(A) is 50, express as nek surface is 530 width

(B) is 100, express as cable trolley

(B) is 200, express as towing clamp

(B) is 300, express as end clamp

(B) is 400, express as active cable trolley

(C) is A, express as use 20# H steel

(C) is B, express as use 25# H steel

(D) is X, express as rigidity drive of ship-unloader

(D) is XL, express as flexibility drive of ship-unloader

(D) is S, express as double layers of festoon system.

<u>DLC 40 100 AX</u>, express as with 330 width nek surface, cable trolley, fit for 20#H steel railway, appliance for rigidity drive of ship-unloader.

Cable towing trolley's size selection according to cable parameters of table 1 of *«each* span cable parameters of cable towing trolley selection table»

Table 1 Cable parameters per span of cable towing
trolley for selection

拖车系列	适用电缆	静负荷 (每跨电缆重)	配涨力带	
Series Size	Suitable Cable	Weight per span	Running Speed	Num. of Strap
DLC40	$\leqslant \Phi$ 50	120kg	≪240m/min	2根Pieces
DLC50	$\leq \phi 62$	200kg	$\leq$ 240m/min	4根Pieces

## 三、电缆拖车的选用

**III.**Selection



图2 Figure2

根据图2示例,通过每个拖车的相关参数(详见图3和表1、2)可运算滑车的数量和电缆长度、排列方式。

As figure2 show, With every trolley relative value(for detail see figure3,table1, table2),can determine trolley quantity, and cable length and arrange method.

The determinate principle of space of cable trolleys is after cable is in storage state, the cable height will not affect the crane's working safety and cable's static load is in range of permission. the length of towing steel wire is: space distance of trolleys, strap length is: 0.7 time of space distance of trolleys. To avoid shake at horizontal in high speed running, the cable clamp is need in 2/3 place of space distance of trolleys, or use fix ring at each span. the ring size is determined according to cable arrange by manufacturer.

# 四、技朮参数和外型尺寸 (图3和表2)

# IV.**Technical value and** dimension size (figure3 and table2)



图3 Figure3

#### 表2:电缆拖车的相关外形尺寸

#### Table2 Dimension of DLC series cable towing trolley

拖车型号	工字钢	А	В	С	D	Е	F1	F2	F3	G	Н	J	K	L	М	N										
Type of Towing	H steel								15																	
DLC40100A							576																			
DLC40200A	- 20a(20b)	Φ112	Φ112	10	120			570		-							-									
DLC40300A				Ψ112	<b>Ψ112</b>	$\Psi^{112}$	$\Psi^{112}$	Ψ112	$\Psi \Pi \Sigma$	2 10		Ψ112 10	120			_	498					_				
DLC40400A					612	2 332		_	786	300	91	124	121	280	440	430										
DLC40100B		A 120				012	552	576	_		500	71	127	_	200	110										
DLC40200B	25a(25b)		Φ120	11	138			570		_							—									
DLC40300B	258(250)	$23a(230) = \Psi^{12}$		Ψ120	Ψ120	Ψ120	Ψ120	Ψ120	Ψ120 11	$\Psi$ 120	Φ120 11		120 11	150	58		_	498					_			
DLC40400B																		_	786				117			430
DLC50100B	- 25a(25b)	Φ120	Φ120	Ф 120	Φ120	Φ120	Ф120	A 120	<b>Φ</b> 120	<b>መ</b> 120	<b>Φ</b> 120		11				662	_					_			
DLC50200B												20 11		11	138			002		_						
DLC50300B										1 138			_	584					_							
DLC50400B					641	534		—	897	365	91	130	117	494	455	463										
DLC50100A							662																			
DLC50200A	20a (20b)	Φ112	10	120			002									-										
DLC50300A		20a (200)	$\Psi^{112}$	$\Psi^{112}$	2 10	10	120			_	584					_										
DLC50400A								—	897				121			463										

## 五、电缆拖车轨道安装与维护

安装和日常维护时请注意:

1、对于导轨焊接对接处, 应平整

光滑偏差小于0.2mm,否则要求对接口 进行打磨处理以达到使用规范。 2、在安装运行和日常使用时对于 导轨表面进行清洁处理,还会使导轨上

动态面近1月202年,小云使导机工的渣粒对于拖车的行走轮进行损坏。
3、拖车装配导轨后,各拖车的橡胶缓冲块应成一条线,相互间的位置偏移小于5mm,特别对于首、托、尾三车 与中车的缓冲块位置。

3 4、拖车装配好以后,两车的行走 轮与工字钢的接触面观察时,以不透光 线为基准。侧水平轮的间隙请按"电缆 拖车的相关外形尺寸"进行检测。

10年的相关外形尺寸"近11位侧。 5、调试运行和日常使用时,请在 开机以前对于各拖车间的每跨电缆进行 观察,确认电缆无缠绕或打结现象,并 观察牵引镀塑钢丝和涨力带无断裂现

6、每隔半年对于电缆拖车中的相关紧固件进行检测。标准件的扭紧力矩见表3:

表3:标准件的扭紧力矩

#### V. Installation & maintenance

Notice of installation and maintenance:

1.To welding connection of railway, the even tolerance less than 0.2mm, otherwise the connection must be burnished to match requirement.

2. Cleaning railway surface in maintenance will prevent walking wheel from damage by dreg on railway.

3. After installing the towing trolleys on railway, all rubber dampers must be in one line, their tolerance must be less than 5mm, special to rubber dampers of towing trolley, active towing trolley and end clamp.

4.After installing the towing trolleys on railway, check the tough surface of the two walking wheel to railway, their must not any ray pass through. check the side horizontal wheel space according to "dimension size".

5. In testing and running, check all span spaces that the cable must be neither any knot nor any twist, and the steel wire or strap has not any break.

6. Check and re-tighten fastener every 6 month. the pre-tighten torque see table3.

Table3 the pre-tighten torque

序号 No.	螺纹规格 Bolt size	扭紧力矩(Nm) Pre-tighten torque
1	M12	60
2	M16	150
3	M20	420

## **六、订货需知**

订货时需提供电缆规格表或 电缆排列图。对于特殊规格的电 缆拖车,如双层电缆拖车等,请与 我具体联系。

### VI. Ordering notice

Please Provide cable specification and cable arrangement figure in ordering. For other special cable towing trolleys, such as double layers cable, etc., please link us.

-6---



# NOVEL TOWING TROLLEY BRING MORE BENEFITS FOR YOU!

## 正在运行由的DLC新型电缆拖车



青岛港岸桥使用现场 DLC type cable towing trolley is working at Qingdao port P.R.China.

DLC type cable towing trolley is working at site.



阿联酋岸桥使用现场 DLC type cable towing trolley is working at United Arab Emirates port.

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