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SC200/200EB-A1 节能型施工升降机

SC200/200EB-A1 Energy-saving

Construction Hoist

产品样本

Stylebook

中联重科建筑起重机械有限责任公司

SC200/200EB-A1 节能型施工升降机

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校 对 Proofreader: 田苗苗

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1. 配置表

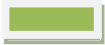
1. Configuration

机型 Type	SC200/200EB-A1、SC200EB-A1		
配置代号 Configuration	4S2050		
定义 Designation	高效传动、集成化一体式控制系统、精英版操作台、升降机远程管理系统、变频闭环控制、人脸识别、自动平层 High-efficiency, Integrated control system, super operation table, remote management system, inverter closed loop control, face recognition, automatic landing		
参数配置表 parameter configuration			
基本参数 basic parameter			
产品型号 Type	SC200EB-A1 (4S2050)	SC200/200EB-A1 (4S2050)	
额定载重量 Rated load	2000kg	2×2000kg	
吊笼尺寸 (长*宽*高) Specification of Cage (length*width*height)	3.2m×1.5m×2.5m		
提升速度 Lifting speed	0~50m/min		
电机功率 Motor power	2×11/18.5kW (50/87Hz)	2×2×11/18.5kW (50/87Hz)	
减速机速比 Reductor ratio	1:18.98		
防坠安全器 Safety device	SAJ40-1.2A		
标准节尺寸 Size of mast section	650mm×650mm×1508mm		
升降机远程管理系统 remote management system			
设备管理 Equipment management	●		
故障报警	●		

Failure warning	
状态查询 Status inquiry	●
维保管理 Maintenance management	●
机手管理 Driver management	●
GPS 定位 GPS location	●
远程监控 Remote control	●
工程管理 Project management	●
高效平稳传动 High-efficiency smooth transmission system	
高效减速机 High-efficiency reductor	●
防松背轮 Prevent loosing back wheel	●
防松滚轮 Prevent loosing idler wheel	●
缓冲连接杆 Buffer link	●
电机(带编码器) Motor(with the encoder)	●
防坠落 Prevent falling	●
吊笼 cage	
230 立柱 230 column	●
装饰铝板 Decorative Aluminium plate	●
安全器防护罩 Safety device cover	●
LED 照明灯	●

LED lamp	
司机室风扇 Fan for cab	●
封闭式滑槽 Closed slide way	●
司机室 (带推拉窗、钢化玻璃) Cab (with sash window and stalinite)	●
舒适型座椅 Comfortable seat	●
工具箱 Tool box	●
集成化一体式控制系统 Integrated control system	
变频 Frequency conversion	●
SIM 卡 SIM card	●
超载保护器 Overload protection	●
防粘连功能 Anti-adhesion function	●
里程显示 Milage displaying	●
运行时间显示 Running time displaying	●
电流电压检测 Current and voltage measuring	●
防冲顶限位装置 Prevent running to top device	●
BWM 操作台 BWM operation table	
BWM 操作台 BWM operation table	(4S 精英版) Super
自动平层	●

Automatic landing	
人脸识别器 Face recognition device	●
故障诊断 Fault diagnosis	●
状态提示 Status displaying	●
楼层显示 Landing displaying	●
载荷显示 Load displaying	●
黑匣子功能 Black box function	●
后备电源应急楼呼供电 Back-up source supply power for emergency landing call	●
集成无线楼层呼叫系统 Wireless integrated landing call system	●
楼层语言播报 Landing broadcast	●
附件 accessories	
快装式外围栏 Quick-assembled outside enclosure	●
II D 型附墙(3m~3.6m) II-type D mast tie(3m~3.6m)	●
II D-VA 通用型附墙 A (3m~3.6m)/(1.9m~2.2m) II D-VA-type mast A tie(3m~3.6m)/(1.9m~2.2m)	○
II D-VA 通用型附墙 B (3m~3.6m)/(1.7m~2.0m) II D-VA-type mast B tie(3m~3.6m)/(1.7m~2.0m)	○

II D-VA 通用型附墙 C (3m~3.6m)/(1.75m~2.05m) II D-VA-type mast C tie(3m~3.6m)/(1.75m~2.05m)	○
维修节 Maintenance mast	○
涂装 Painting	
极光绿 Laser green	●
工程黄配色方案 Engineering yellow	○
中联红配色方案 Zoomlion red	○
热浸锌标节 Zinc immersion mast	●
电镀锌齿条 Electro galvanizing rack	○
定制服务 (配件选装) ordered serving (optional accessories)	
自动加油机 Automatic oiling machine	○
电动吊杆 Electric suspender	○
翻板出料门 Turnover discharge door	○
司机室推拉门 Sash door for cab	○
外围栏平推门 Horizontal sliding door for outside enclosure	○
说明: “●” 标配, “○” 选配, “-” 无该项配置; Note: “●” standard configuration, “○” option configuration, “-” without configuration	
整机工业设计方案:  工程黄  中联红  极光绿	
Project of industry design: Engineering yellow Zoomlion red Laser green	

2. SC 系列施工升降机基础设置的选型

2. Selection of Concrete Foundation SC Construction Hoist

2.1 设置基础型号CM3038（适用于SC系列单笼不带司机室）

2.1 Model CM3038 (applicable to SC single-cage hoist without cab)

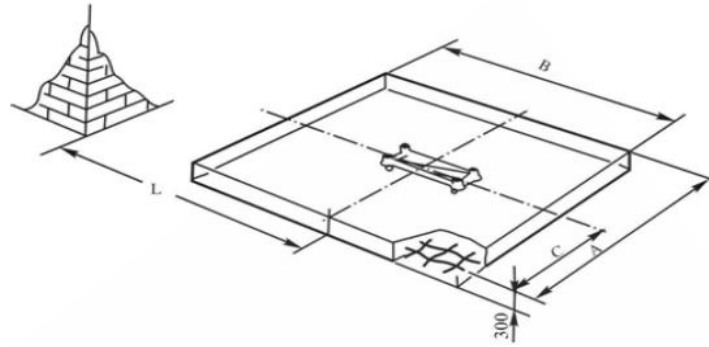


图 2.1 CM3038混凝土基础

Figure 2.1 CM3038 Concrete Foundation

表2.1 CM3038 混凝土基础详细尺寸

Table 2.1 Detailed Size of CM3038 Concrete Foundation

型号 Model	吊笼规格 Specification of Cage	基础离墙距离L Distance L between Foundation and Wall	A (mm)	B (mm)	C (mm)	
					左笼 Left Cage	右笼 Right Cage
单笼不带司 机室系列	3.2×1.5m	根据 I、II、 III、IV、V、VI 型附墙架距离 定; According to the mast tie type I, II, III, IV, V and VI;	3000	3800	2400	600

2.2 设置基础型号CM3838（适用于SC系列单笼带司机室）

2.2 Model CM3838 (applicable to SC single-cage hoist with cab)

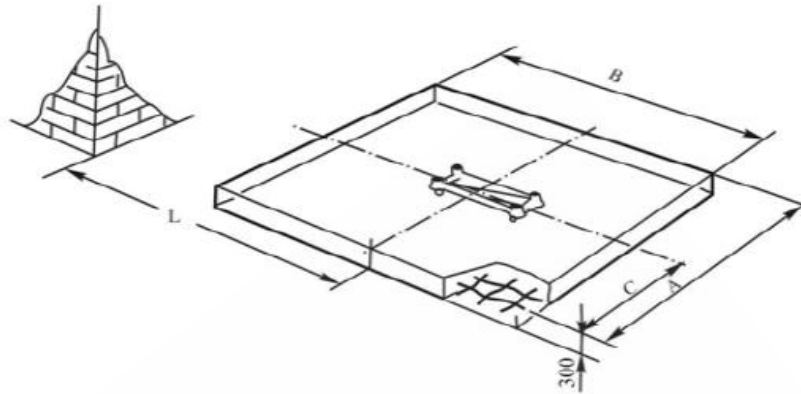


图 2.2 CM3838混凝土基础

Figure 2.2 CM3838 Concrete Foundation

表2.2 CM3838 混凝土基础详细尺寸

Table 2.2 Detailed Size of CM3838 Concrete Foundation

型号 Model	吊笼规格 Specification of Cage	基础离墙距 Distance L between Foundation and Wall	A (mm)	B (mm)	C (mm)	
					左笼 Left Cage	右笼 Right Cage
单笼带司机 室系列	3.2×1.5m	根据 I、II、 III、IV、V、 VI型附墙架 距离定； According to the mast tie type I, II, III, IV, V and VI；	3800	3800	3200	600

2.3 设置基础型号CM4638（适用于SC系列双笼不带司机室）

2.3 Model CM4638 (applicable to double-cage hoist without cab)

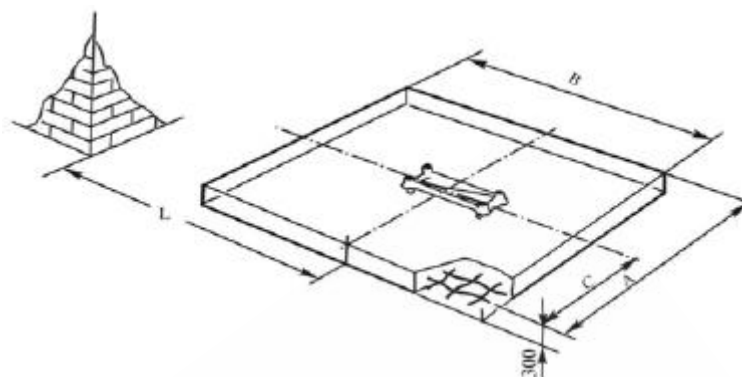


图 2.3 CM4638混凝土基础

Figure 2.3 CM4638 Concrete Foundation

表2.3 CM4638 混凝土基础详细尺寸

Table 2.3 Detailed Size of CM4638 Concrete Foundation

型号 Model	吊笼规格 Specification of Cage	基础离墙距离 Distance L between Foundation and Wall	A (mm)	B (mm)	C (mm)
双笼不带司 机室系列	3.2×1.5m	根据 I、II、 III、IV、V、VI 型附墙架距离 定; According to the mast tie type I, II, III ,IV, V and VI ;	4600	3800	2300

2.4 设置基础型号CM6238（适用于SC系列双笼带司机室）

2.4 Model CM6238 (applicable to SC double-cage hoist with cab)

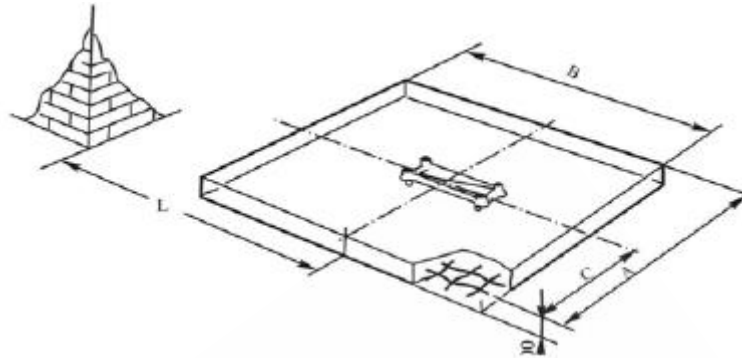


图 2.4 CM6238混凝土基础

Figure 2.4 CM6238 Concrete Foundation

表2.4 CM6238 混凝土基础详细尺寸

Table 2.4 Detailed Size of CM6238 Concrete Foundation

型号 Model	吊笼规格 Specification of Cage	基础离墙距离 Distance L between Foundation and Wall	A (mm)	B (mm)	C (mm)
双笼带司机 室系列	3.2×1.5m	根据 I、II、 III、IV、V、VI 型附墙架距离 定； According to the mast tie type I, II, III, IV, V and VI ;	6200	3800	3100

3. 标准节

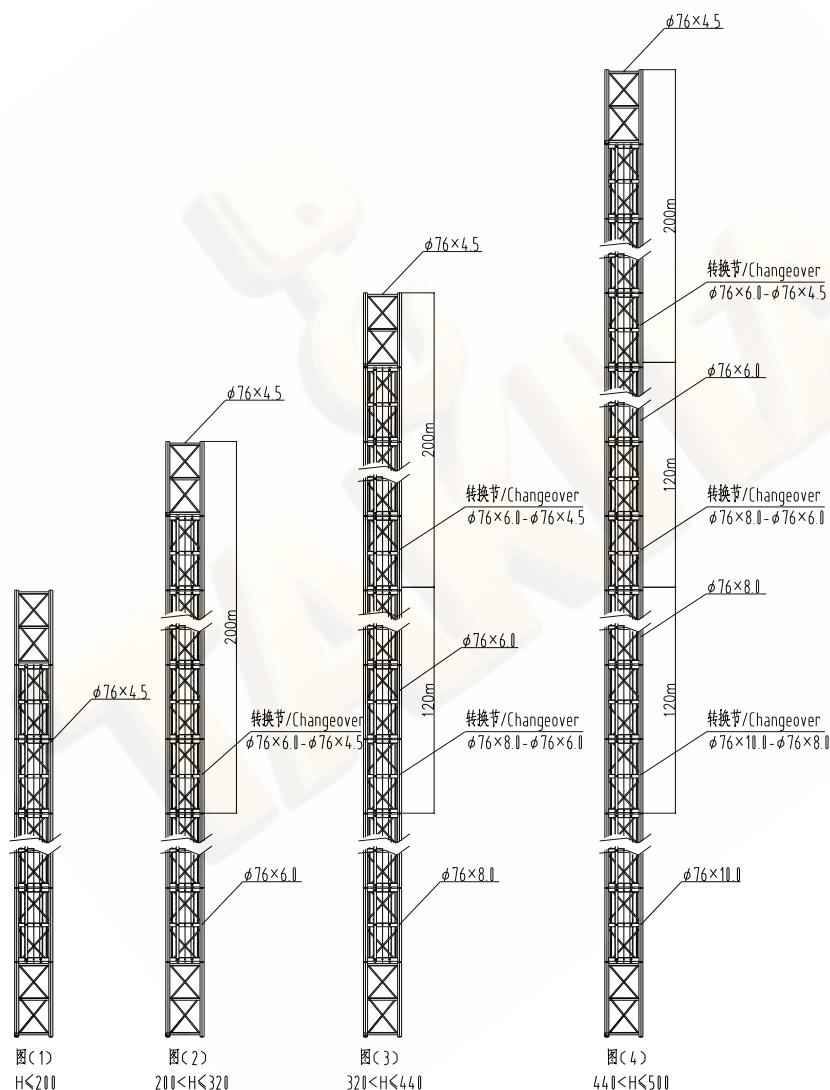
3. Mast

3.1 标准节配置

3.1 Configuration of Mast

升降机安装高度不同，标准节的配置也不同，标准节主弦管壁厚随着安装高度的增加而配置不同，在不同主弦管壁厚的标准节之间必须设置转换节。

For different installed height of hoist, the configuration of mast sections is also different. The thickness of main chord of mast section will vary as the installed height increases, and the changeover section shall be set up between the mast sections with different thickness of main chord.



注：H为导轨架安装高度

Note: H is the installed height of mast

图3.1 标准节立管壁厚配置

Figure 3.1 Thickness of Vertical Tube of Mast section

标准节规格选择示例：

Example for selection of specification of mast section:

导轨架的安装高度为500m时，根据标准节立管壁厚配置图3.1，可知：

When the installed height of mast is 500m, the thickness of mast section is indicated in Figure 2.1-3:

表3.1 不同安装高度时标准节的配置

Table 3.1 Erection of Mast sections for Different Installed Height

安装高度 Installed Height 安装数量 Installed Number 标准节规格 Specification of Mast section	200m	320m	440m	500m
$\Phi 76 \times 4.5\text{mm}$	133	133 (含一节转换节) 133 (including one changeover section)	133 (含一节转换节) 133 (including one changeover section)	133 (含一节转换节) 133 (including one changeover section)
$\Phi 76 \times 6.0\text{mm}$	0	79	80 (含一节转换节) 80 (including one changeover section)	80 (含一节转换节) 80 (including one changeover section)
$\Phi 76 \times 8.0\text{mm}$	0	0	79	80 (含一节转换节) 80 (including one changeover section)
$\Phi 76 \times 10.0\text{mm}$	0	0	0	39
标准节合计数量 Total number of mast sections	133	212	292	332

4. SC 系列施工升降机附墙架的选型

4. Selection of Mast tie for SC Industrial Hoist

目前SC系列施工升降机附墙架标配型号为ⅡD型，以下型号附墙架为选配，如以下型号附墙架不满足使用要求，可根据用户要求及实际使用工况另行设计附墙架。

At present, the standard type of mast tie for SC series construction hoist is ⅡD, and the others types are optional types. If these types of mast tie cannot be satisfied with the user's requirement, we can design new type according to the actual working condition and the user's requirement.

4.1 SC 系列施工升降机附墙架的型号

4.1 Types of Mast tie of SC Construction Hoist

4.1.1 I 型附墙架

4.1.1 I-type Mast tie

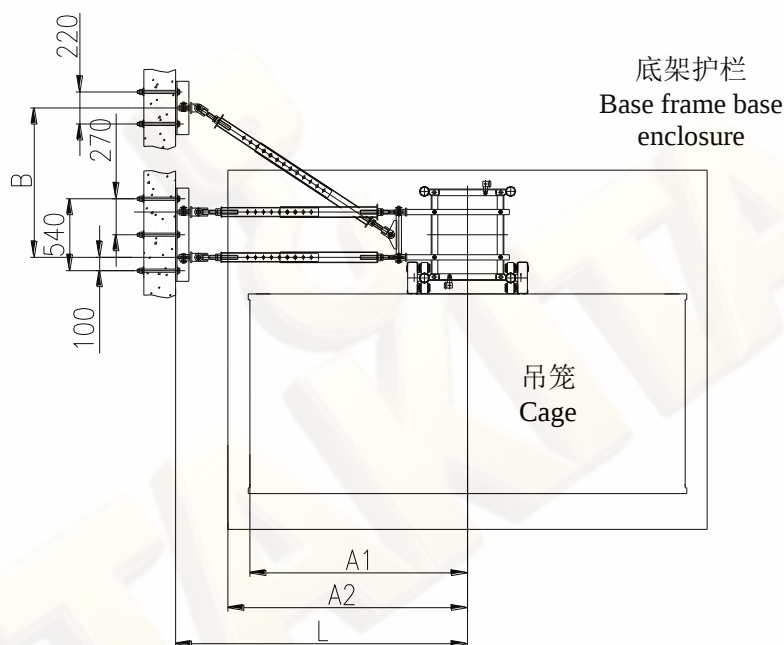


图4.1-1 I型附墙架示意图

Figure 4.1-1 Schematic Diagram for I-type Mast tie

主要用于：适用于附墙距离比较近，载重不大的单笼施工升降机

Applicability: Applicable to the single-cage construction hoist which is relatively close to wall and the carrying capacity is not high

表4.1-1 I型附墙架连接尺寸

Table 4.1-1 Connection Size of I-type Mast Tie

吊笼规格 Specification of Cage	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	1800-2500	1650	1800	1000-1570
3.0×1.3m		1540	1700	1000-1570

4.1.2II型附墙架（推荐使用IID型附墙架）

4.1.2II-type Mast Tie (IID mast tie recommended)

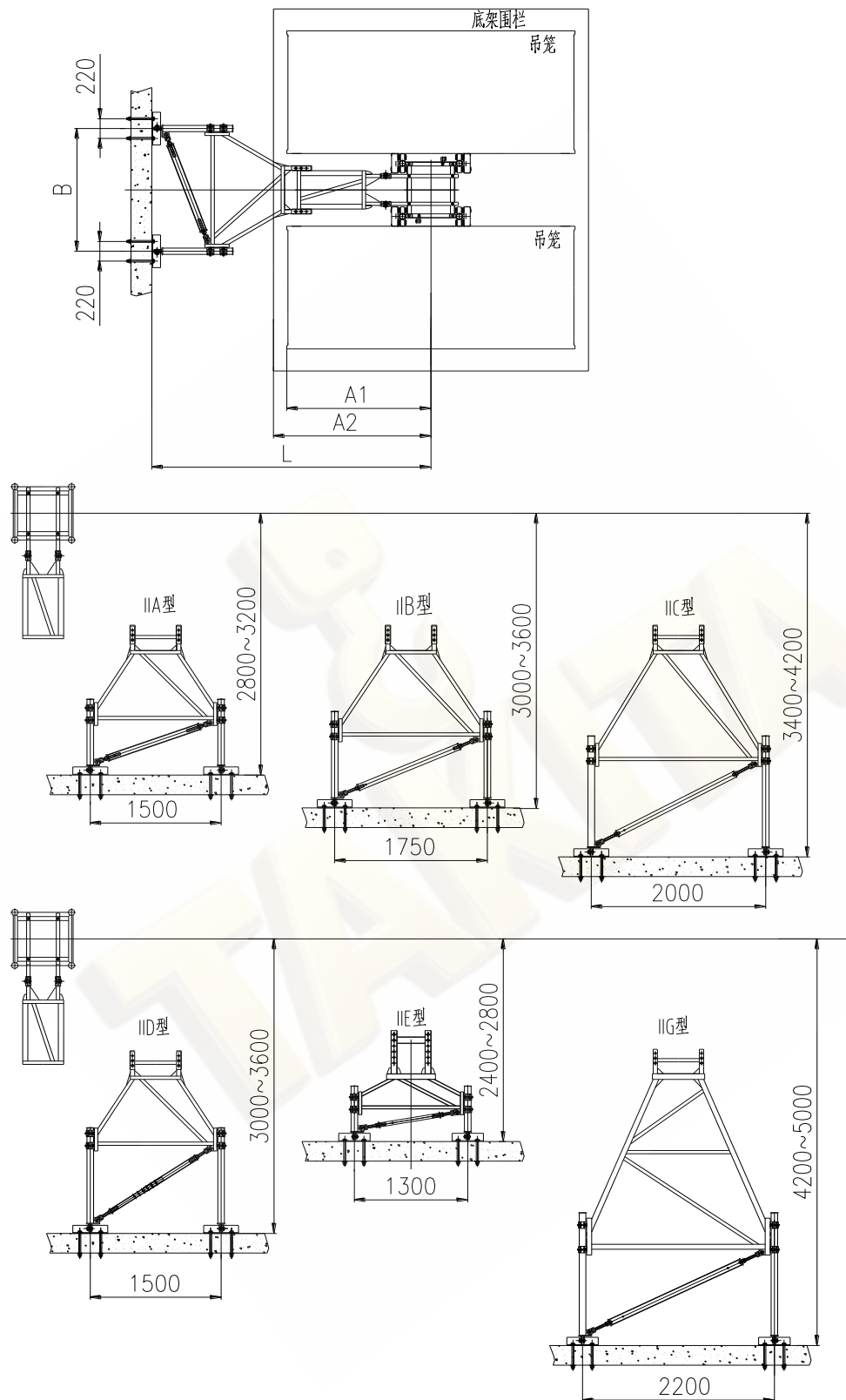


图4.1-2 II型附墙架示意图

Figure 4.1-2 Schematic Diagram for II-type Mast Tie

表 4.1-2 II 型附墙架连接尺寸

Table 4.1-2 Connection Size of II-type Mast Tie

吊笼规格 Specification of Cage	型号 Model	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	IIA	2800-3200	1650	1800	1500
	IIB	3000-3600			1750
	IIC	3400-4200			2000
	IID	3000-3600			1500
	IIE	2400~2800			1300
	IIG	4200~5000			2200
3.0×1.3m	IIA	2800-3200	1540	1700	1500
	IIB	3000-3600			1750
	IIC	3400-4200			2000
	IID	3000-3600			1500
	IIE	2400~2800			1300
	IIG	4200~5000			2200

4.1.3 III型附墙架

4.1.3 III-type Mast Tie

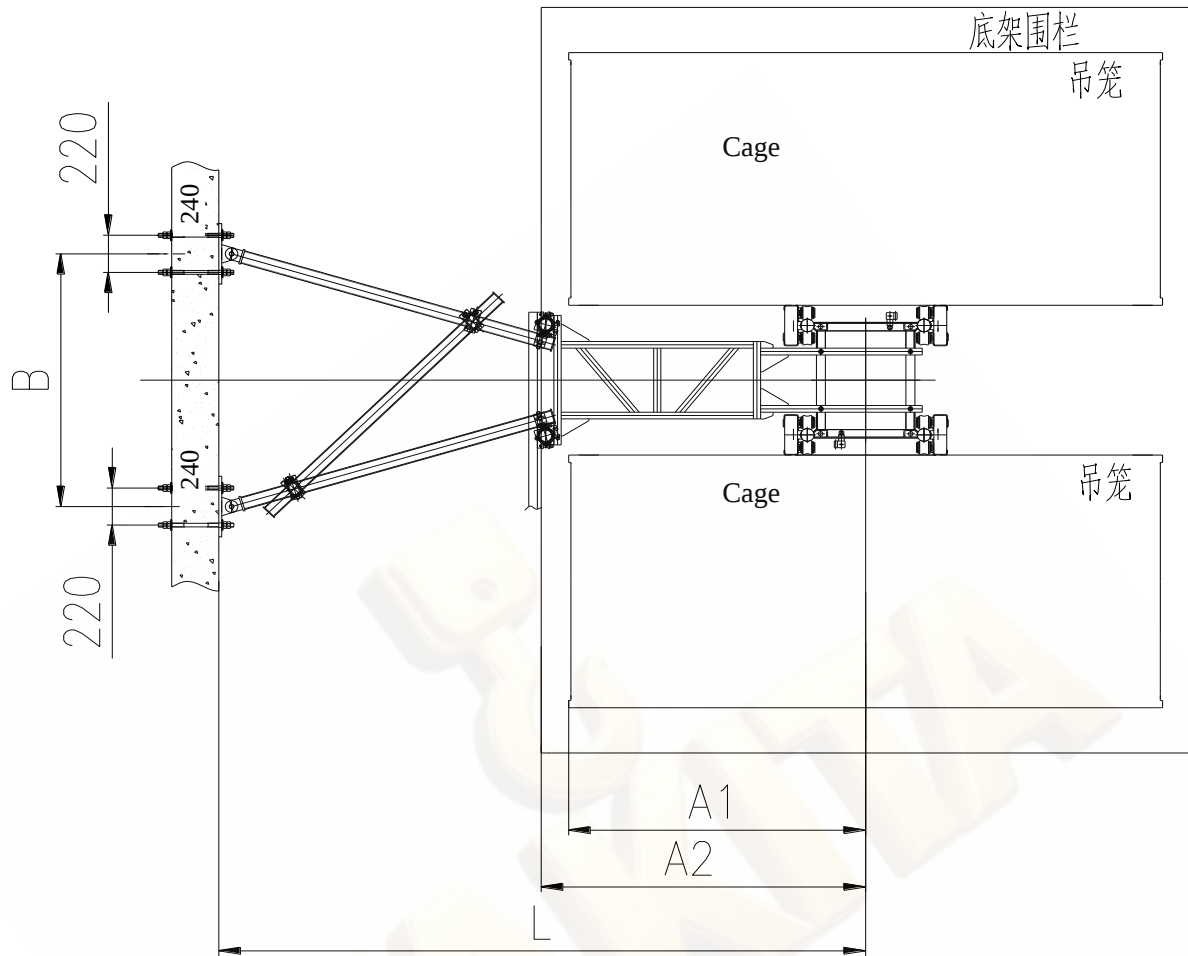


图4.1-3 III型附墙架示意图

Figure 4.1-3 Schematic Diagram for III-type Mast Tie

表4.1-3 III型附墙架连接尺寸

Table 4.1-3 Connection Size of III-type Mast Tie

吊笼规格 Specification of Cage	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	3000-3600	1650	1850	1200-1600
3.0×1.3m	3000-3600	1540	1750	1200-1600

4.1.4IV型附墙架

4.1.4IV-type Mast Tie

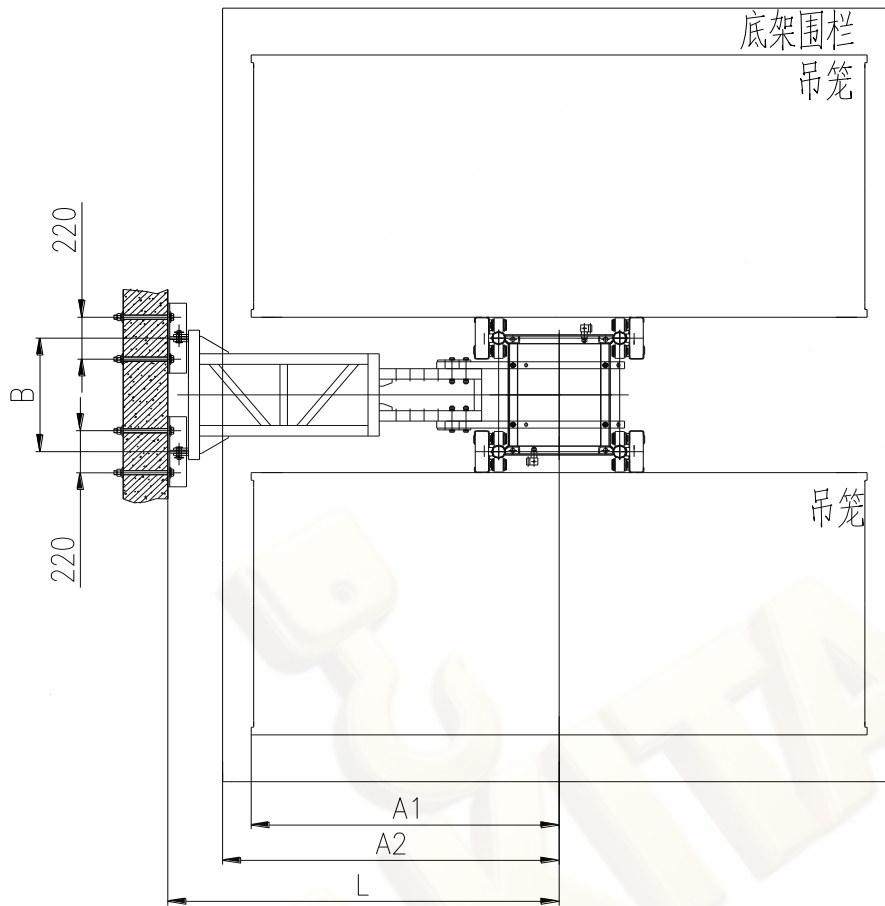


图4.1-4 IV型附墙架示意图

Figure 4.1-4 Schematic Diagram for IV-type Mast Tie

表4.1-4 IV型附墙架连接尺寸

Table 4.1-4 Connection Size of IV-type Mast Tie

吊笼规格 Specification of Cage	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	1800-2100	1650	1800	650
3.0×1.3m	1800-2100	1540	1700	650

4.1.5V型附墙架

4.1.5V-type Mast Tie

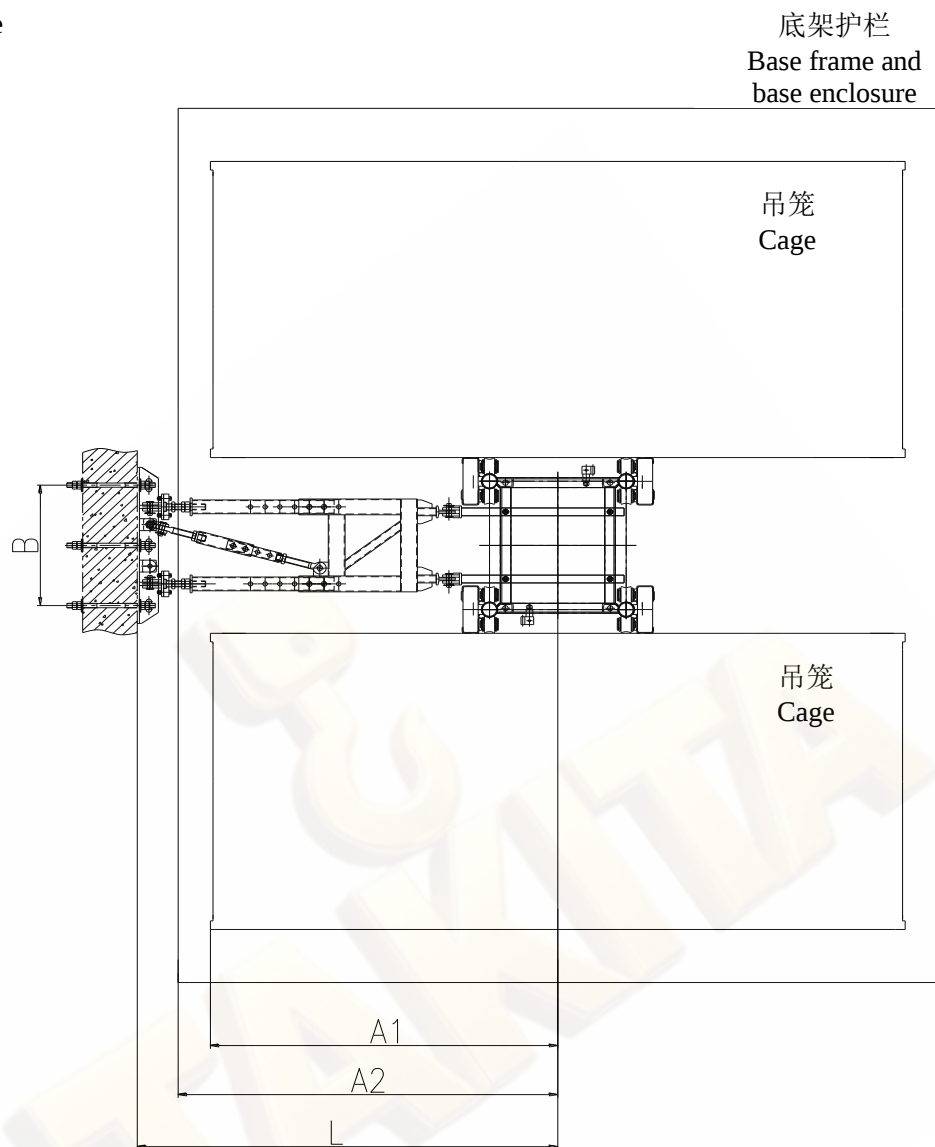


图4.1-5 V型附墙架示意图

Figure 4.1-5 Schematic Diagram for V-type Mast Tie

表4.1-5 V型附墙架连接尺寸

Table 4.1-5 Connection Size of V-type Mast Tie

吊笼规格 Specification of Cage	型号 Model	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	VA	1700-2000	1650	1800	610
	VB	2000~2300			
3.0×1.3m	VA	1700-2000	1540	1700	610
	VB	2000~2300			

4.1.6 IID-VA型通用附着装置A、B和C

4.1.6 IID-VA-type Mast Tie A、B and C

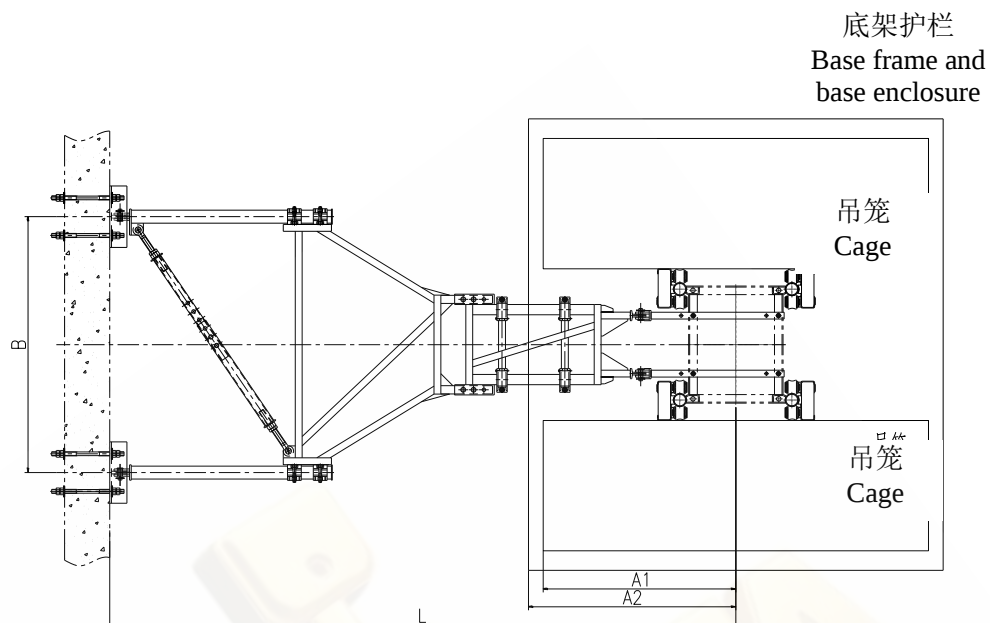


图4.1-6 IID-VA型通用附墙架A和C示意图

Figure 4.1-6 Schematic Diagram for IID-VA-type Mast Tie A and C

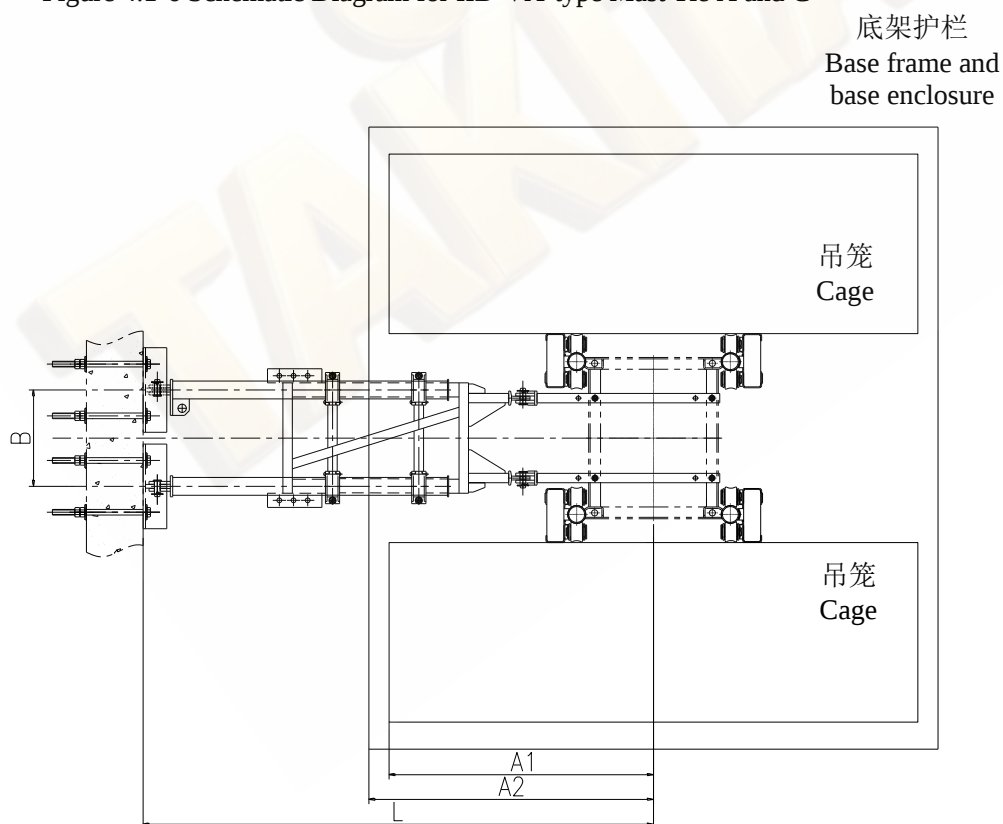


图4.1-6 IID-VA型通用附墙架A和C中V型用示意图

Figure 4.1-6 Schematic Diagram for IID-VA-type Mast Tie A and C for V type

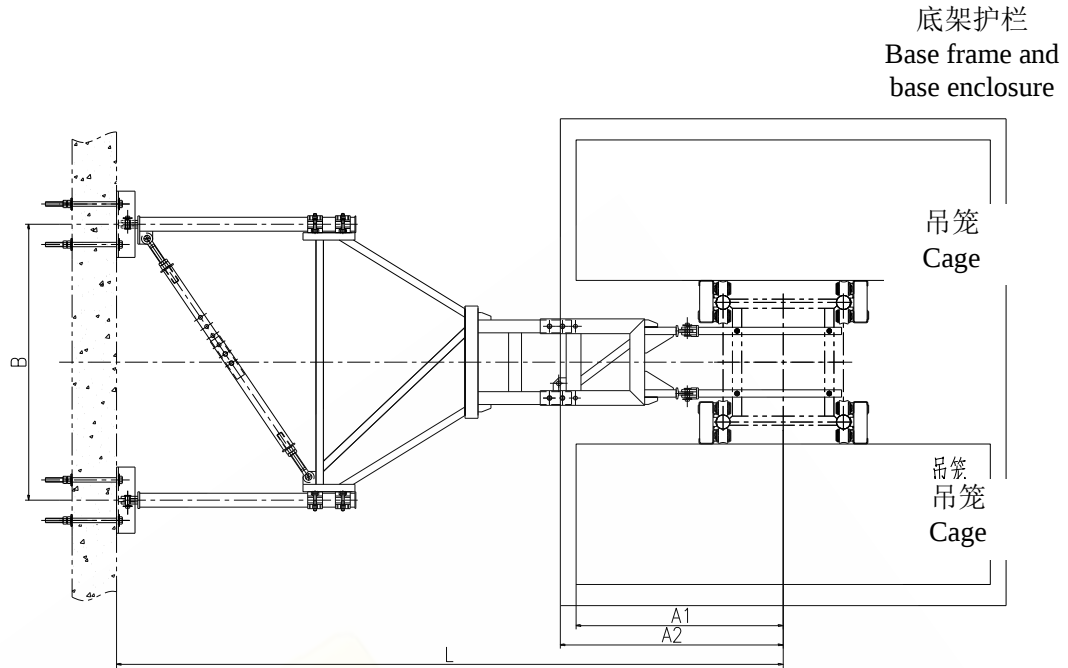


图4.1-7 IID-VA型通用附墙架B示意图

Figure 4.1-7 Schematic Diagram for IID-VA-type Mast Tie B

表4.1-6 IID-VA型通用附墙架连接尺寸表

Table 4.1-6 Connection Size of IID-VA-type Mast Tie

吊笼规格	通用型号	型号	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	IID-VA型通用附着装置A	IID	3000~3600	1650	1800	1500
		V	1900~2200	1650	1800	410
	IID-VA型通用附着装置B	IID	3000~3600	1650	1800	1500
		V	1700~2000	1650	1800	610
	IID-VA型通用附着装置C	IID	2800~3400	1650	1800	1500
		V	1750~2050	1650	1800	450
3.0×1.3m	IID-VA型通用附着装置A	IID	3000~3600	1540	1700	1500
		V	1900~2200	1540	1700	410
	IID-VA型通用附着装置B	IID	3000~3600	1540	1700	1500
		V	1700~2000	1540	1700	610
	IID-VA型通用附着装置C	IID	2800~3400	1650	1800	1500
		V	1750~2050	1650	1800	450

4.1.7 VI型附墙架

4.1.7 VI-type Mast Tie

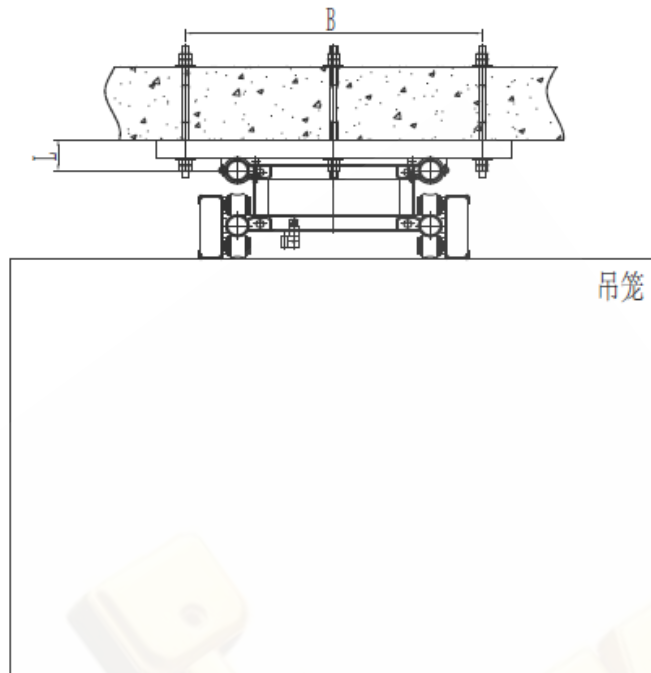


图4.1-8 VI型附墙架示意图

Figure 4.1-8 Schematic Diagram for VI type Mast Tie

表4.1-7 VI型附墙架连接尺寸表

Table 4.1-7 Connection Size of VI type Mast Tie

吊笼规格	L (mm)	A1 (mm)	A2 (mm)	B (mm)
3.2×1.5m	111	/	/	1000
3.0×1.3m	111	/	/	1000

4.2 附墙架与墙的连接

4.2 Connection between Mast Tie and Wall

4.2.1 SC 系列施工升降机附墙架与墙的连接

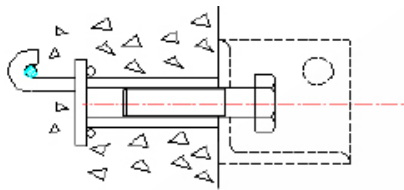
4.2.1 Connection between Wall and Mast Tie of SC Construction Hoist

附墙架与墙的连接有以下几种方式：

The connection between mast tie and wall can be realized in the following manners:

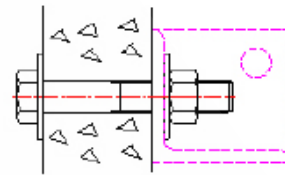
[例1] 与墙上预埋件相连接

[Example 1] Connected with embedded part in wall



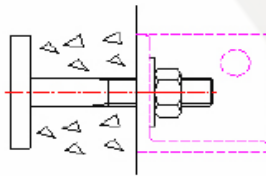
[例2] 用穿墙螺栓固定

[Example 2] Fixed with wall-penetrating bolt



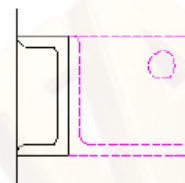
[例3] 预埋螺栓

[Example 3] Embedded bolt



[例4] 与钢结构焊接

[Example 4] Welded onto steel structure



[例5] 化学螺栓

[Example 5] Chemical bolt

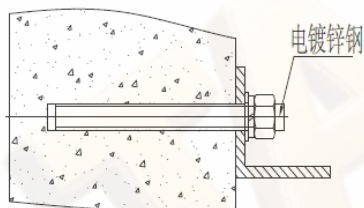


图4.2-1 SC系列施工升降机附墙架与墙的连接方式

Figure 4.2-1 Mode of Connection between Wall and Mast tie of SC Construction Hoists