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This direction made of in Chinese and English, in event of conflicts or imcertainty of meaning, the Chinese version shall prevail.  
For modification of product specification subjects to continuous betterment in development of Maxloadc&h products, no notice will be given separately.



## 上海拓起起重设备有限公司

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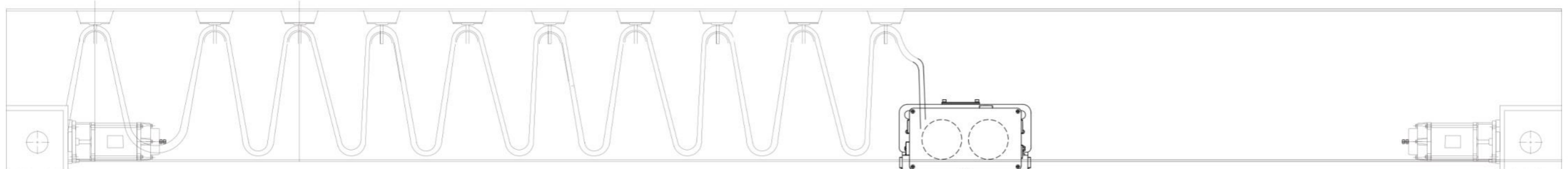
# MAXLOADC&H<sup>®</sup>



## 环链电动葫芦 Electric Chain Hoist







## 公司简介

上海拓起起重设备有限公司作为专业的电动葫芦和起重机整机的制造、服务商，拓起公司勇于创新，追求技术进步，精益求精，致力于为客户提供专业、安全、更经济的起重机解决方案，并依托我们的技术和研发中心，为客户提供个性化的物料搬运解决方案，满足客户对物料搬运、工艺布局、提升效率的要求。

拓起公司提供全面的起重产品和服务，产品覆盖环链电动葫芦、钢丝绳电动葫芦、KBK组合式轻小型起重机等工业起重产品。

拓起公司引进欧洲先进技术工艺，本土生产制造。产品具备高性价比，低噪音，低能耗，工作级别高。并且改良造型，优质做工，是现代化企业起重机及物料搬运的最佳合作伙伴。

拓起公司的产品均通过ISO9001、德国TUV、欧盟CE、瑞士SGS等国际认证，在全球范围内被广泛应用于汽车工业、新能源产业、储能行业、模具加工、机械加工、包装运输业、航空航天等领域。

## Company Profile

**Shanghai Maxload Cranes & Hoists Co., Ltd.** as a professional Electric Hoist and Overhead Crane Accessories manufacturing, service providers, **Maxloadc&h** company innovation, the pursuit of technological progress, excellence, committed to providing customers with professional, safety, more economical crane solutions, and relying on our technology and R&D center, to provide customers with personalized material handling solutions.

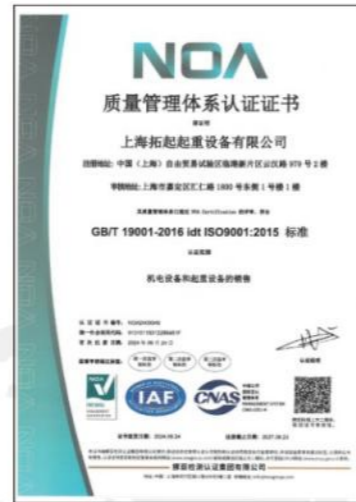
The **Maxloadc&h** company provides a comprehensive range of lifting products and services, products covering electric chain hoist, wire rope hoist, KBK Light crane system and other industrial lifting equipments. The introduction of European advanced technology, local manufacturing. Products with high cost performance, low noise, low energy consumption, high working level.

The **Maxloadc&h** company products have passed ISO9001:2015, Germany TÜV, EU CE, Switzerland SGS and other international certifications, and are widely used in the automotive industry, new energy industry, energy storage industry, mold processing, mechanical processing, packaging and other fields around the world.

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2015 研发并生产HHER,DMG系列葫芦  
2015 designed and produced  
HHER,DMG Series Hoists

2019年通过ISO9001认证  
2019 Passed ISO9001

2024年获得TUV认证  
2024 Won TÜV (Germany)  
Certification

2014

2015

2017

2019

2022

2024

2014 公司成立，主要代理并销售  
德马格，KITO等进口品牌电动葫芦  
2014 Enterprise started,  
mainly as distributor of Demag, KITO,etc

2017年产品获得SGS, CE认证  
2017 CE,SGS Approved

2022年 研发生产舞台葫芦并获得国际专利  
2022 Stage hoist produced  
and got the international patent



# 产品型号代码 Product Model Code

| HHER                    |             | 01                  | -                   | 01                          | S   | M                           | S |
|-------------------------|-------------|---------------------|---------------------|-----------------------------|---|-----------------------------|---|
| 产品系列<br>Products Series |             | 链条回数<br>Chain Falls |                     | 起升速度<br>Lift Speed          | 结构形式<br>Hoist type  | 跑车速度<br>Trolley speed       |   |
| 代码<br>Code              | 载重<br>S.W.L | 代码<br>Code          | 链条回数<br>Chain falls | S 单速<br>Single speed        | S 固定式<br>Hook Suspension type                                     | S 单速<br>Single speed        |   |
| 0.5                     | 0.5t        | 01                  | 1                   | D 双速<br>Dual speed          | P 手动小车式<br>Plain trolley type                                     | D 双速<br>Dual speed          |   |
| 0.1                     | 01t         | 02                  | 2                   | F 变频<br>Frequency converter | M 电动小车式<br>Motorized trolley type                                 | F 变频<br>Frequency converter |   |
| 1.5                     | 1.5t        | 03                  | 3                   | E 伺服电机<br>Servo motor       | L 低净空(运行式)<br>Ultra Low-headroom type<br>(with motorized trolley) | E 伺服电机<br>Servo motor       |   |
| 0.2                     | 2t          | 04                  | 4                   |                             | U 低净空(固定式)<br>Ultra Low-headroom type<br>(Fixed type)             |                             |   |
| 2.5                     | 2.5t        | 06                  | 6                   |                             | D 洁净式(运行式)<br>Dust-proof type<br>(with motorized trolley)         |                             |   |
| 0.3                     | 3t          | 08                  | 8                   |                             | T 洁净式(固定式)<br>Dust-proof type (Fixed type)                        |                             |   |
| 0.5                     | 5t          | 10                  | 10                  |                             |   |                             |   |
| 7.5                     | 7.5t        | 12                  | 12                  |                             |   |                             |   |
| 1.0                     | 10t         |                     |                     |                             |   |                             |   |
| 1.5                     | 15t         |                     |                     |                             |   |                             |   |
| 2.0                     | 20t         |                     |                     |                             |   |                             |   |
| 2.5                     | 25t         |                     |                     |                             |   |                             |   |



**安全可靠的刹车装置/Electromagnetic brake**

电流是电磁制动器结构有强劲的制动力,确保使用时的制动要求

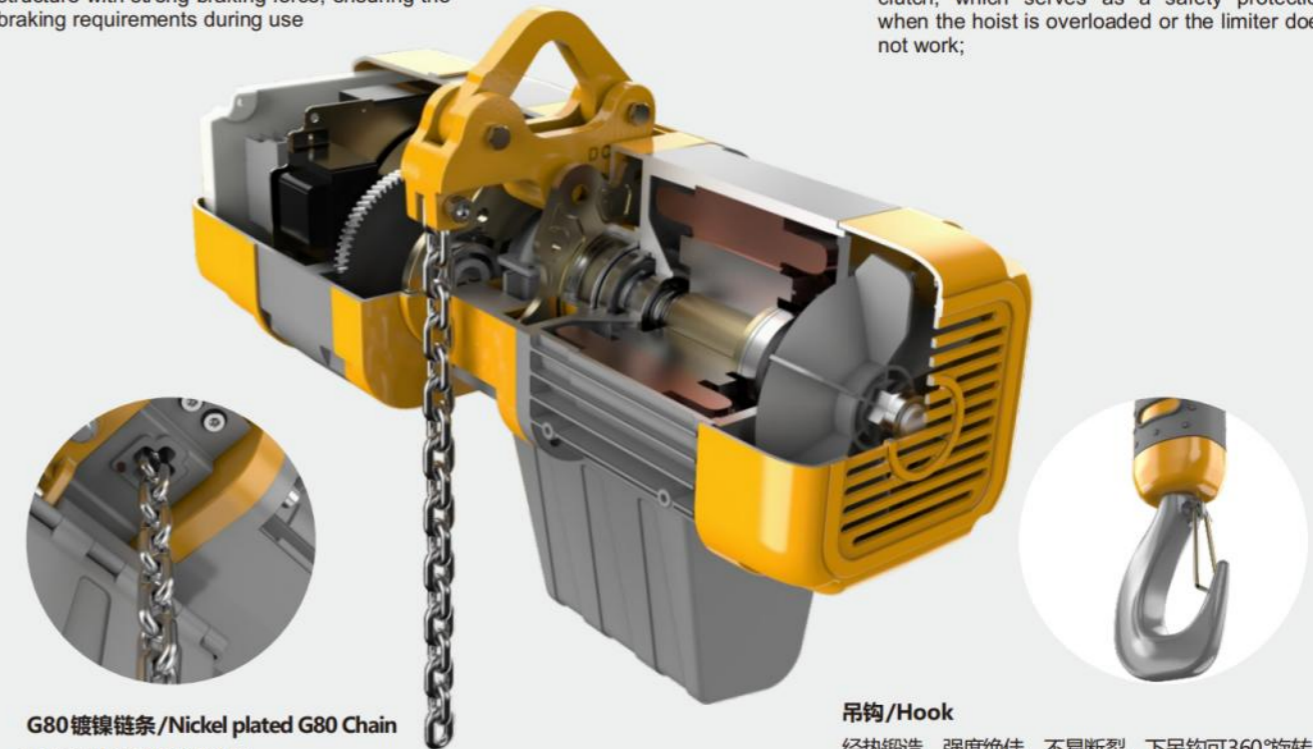
The current is an electromagnetic brake structure with strong braking force, ensuring the braking requirements during use



**摩擦离合器/Friction clutch**

减速箱配备摩擦离合器,葫芦出现超载或者限位不工作时起安全保护作用;

The reduction box is equipped with a friction clutch, which serves as a safety protection when the hoist is overloaded or the limiter does not work;



**G80 镀镍链条/Nickel plated G80 Chain**

高强度耐磨G80镀镍链条  
Heavy strength Nickel plated G80 Chain

**吊钩/Hook**

经热锻造,强度绝佳,不易断裂。下吊钩可360°旋转,附安全舌片,确保操作安全。

It is hot forging with perfect strength that is hard to break. The operation safety of the lower hook is ensured by its 360 degrees rotation and safety flap.



**S-固定式  
Suspension type**



**M- 电动小车式  
Motorized trolley type**



**P-手动小车式  
Plain trolley type**



**L-低净空(运行式)  
Ultra Low-headroom type  
(with motorized trolley)**



**U-低净空(固定式)  
Ultra Low-headroom type  
(Fixed type)**



**D-洁净式  
Dust-proof type**



**双极限限位开关/Dual Limit switch**

电动葫芦上下均采用双限位开关,防止单一限位失灵导致葫芦冲顶

The electric hoist uses double limit switches on the upper and lower sides to prevent damage to the hoist caused by a single limit failure



**一体式风冷电机/Air-cooled Motor**

风冷式电机,有效控温,适应高强度作业;

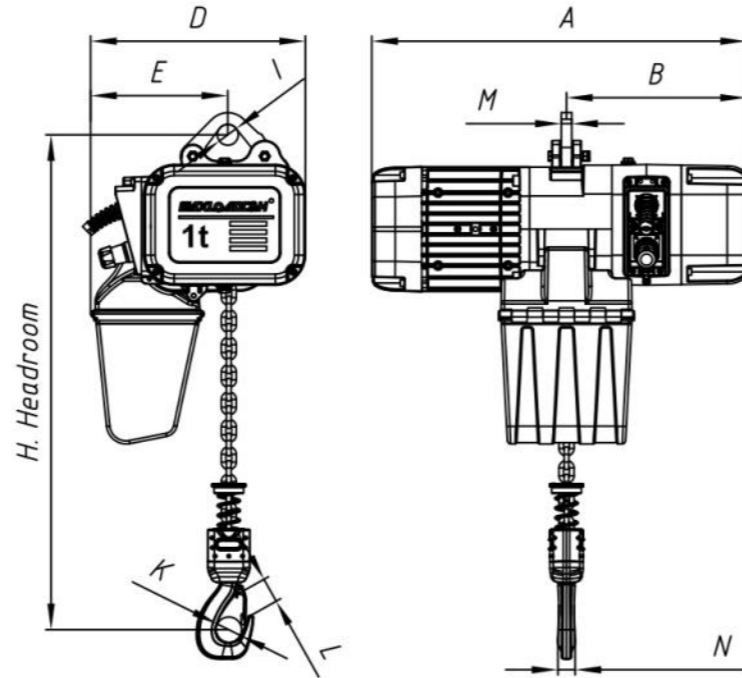
Air-cooled motor, effective temperature control, adapt to high-intensity operations



— 固定式 (1t-5t)  
— Fixed Type (1t-5t)



HHER 系列环链电动葫芦  
HHER series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1个), 控制线缆+按钮开关(1套), 无线遥控(选配)  
Standard Accessories: chain bag(1pcs), Handle switch(1pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇, 可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. HHER 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 单速/双速<br>Single speed/<br>Dual speed | 起升电机<br>Lifting motor            |                       | 载重链<br>Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage<br>(v)                                  | 实验载荷<br>Test load<br>(kg) | 净重<br>Net/Gross<br>weight (kg) |
|--------------------------|----------------------|--------------------------------------|----------------------------------|-----------------------|---|---|---------------------------|--------------------------------|
|                          |                      |                                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) |   |   |                           |                                |
| 1000kg                   | HHER01-01SS          | 单 Single                             | 6.7                              | 1.5                   | Φ7.1*21 x 1   | 220-440<br>(V)<br><br>50/60<br>(HZ)<br><br>3<br>(Phase) | 1250kg                    | 50/60                          |
|                          | HHER01-01DS          | 双 Dual                               | 6.7/2.2                          | 1.5/0.6               |   |   |                           | 55/65                          |
| 2000kg                   | HHER02-01SS          | 单 Single                             | 6.7                              | 3.0                   | Φ10.0*30 x 1  |   | 2500kg                    | 90/100                         |
|                          | HHER02-01DS          | 双 Dual                               | 6.7/2.2                          | 3.0/1.1               |   |   |                           | 95/105                         |
|                          | HHER02-02SS          | 单 Single                             | 3.3                              | 1.5                   | Φ7.1*21 x 2   |   | 2500kg                    | 90/100                         |
|                          | HHER02-02DS          | 双 Dual                               | 3.3/1.0                          | 1.5/0.6               |   |   |                           | 95/105                         |
| 3000kg                   | HHER03-01SS          | 单 Single                             | 5.5                              | 3.0                   | Φ11.2*34 x 1  |   | 3750kg                    | 90/100                         |
|                          | HHER03-01DS          | 双 Dual                               | 5.5/1.8                          | 3.0/1.1               |   |   |                           | 95/105                         |
|                          | HHER03-02SS          | 单 Single                             | 3.0                              | 3.0                   | Φ10.0*30 x 2  |   | 3750kg                    | 90/100                         |
|                          | HHER03-02DS          | 双 Dual                               | 3.0/1.1                          | 3.0/1.1               |   |   |                           | 95/105                         |
|                          | HHER03-03SS          | 单 Single                             | 2.2                              | 1.5                   | Φ7.1*21 x 1   | 3750kg  | 90/100                    |                                |
|                          | HHER03-03DS          | 双 Dual                               | 2.2/0.7                          | 1.5/0.6               |   |   | 95/105                    |                                |
| 5000kg                   | HHER05-02SS          | 单 Single                             | 2.7                              | 3.0                   | Φ11.2*34 x 2  | 6250kg  | 140/150                   |                                |
|                          | HHER05-02DS          | 双 Dual                               | 2.7/0.8                          | 3.0/1.1               |   |   | 145/155                   |                                |

尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type | 净空高度<br>Headroom<br>H | A   | B   | D   | E   | I   | M  | N  | K   | L   |
|--------------------------|------------|-----------------------|-----|-----|-----|-----|-----|----|----|-----|-----|
| 1000kg                   | HHER01-01  | 400                   | 590 | 298 | 300 | Φ31 | Φ40 | 31 | 24 | 142 | 231 |
| 2000kg                   | HHER02-01  | 560                   | 699 | 350 | 320 | Φ36 | Φ49 | 35 | 30 | 142 | 231 |
|                          | HHER02-02  | 660                   | 590 | 298 | 300 | Φ36 | Φ49 | 35 | 30 | 142 | 231 |
| 3000kg                   | HHER03-01  | 710                   | 699 | 350 | 465 | Φ43 | Φ59 | 42 | 35 | 142 | 231 |
|                          | HHER03-02  | 680                   | 699 | 350 | 320 | Φ43 | Φ59 | 42 | 35 | 142 | 231 |
|                          | HHER03-03  | 680                   | 590 | 298 | 320 | Φ43 | Φ59 | 42 | 35 | 142 | 231 |
| 5000kg                   | HHER05-02  | 940                   | 699 | 350 | 465 | Φ54 | Φ60 | 45 | 43 | 142 | 231 |

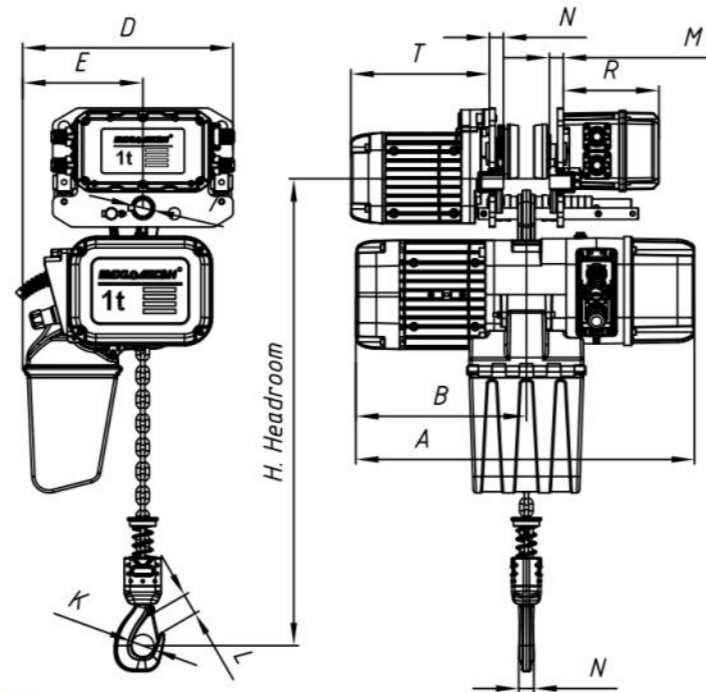
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 电动跑车运行式 (1t-5t)  
— Motorized Trolley type (1t-5t)



HHER 系列环链电动葫芦  
HHER series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套), 电动跑车(1套), 控制线缆+按钮开关(1套), 无线遥控(选配)  
Standard Accessories: chain bag(1 pcs), Motorized Trolley(1 pcs), Handle switch(1 pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇, 可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. HHER 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 单速/双速<br>Single speed/<br>Dual speed | 起升电机<br>Lifting motor            |                       | 运行电机<br>Travelling motor            |                       | 载重链<br>Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工字钢<br>Flange width<br>(mm) | 电压<br>Voltage<br>(v)          | 实验载荷<br>Test load<br>(kg) | 净重<br>Net/Gross<br>weight (kg) |
|--------------------------|----------------------|--------------------------------------|----------------------------------|-----------------------|-------------------------------------|-----------------------|---|-----------------------------|-------------------------------|---------------------------|--------------------------------|
|                          |                      |                                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) | 运行速度<br>Travelling speed<br>(m/min) | 输出功率<br>power<br>(kW) |   |                             |                               |                           |                                |
| 1000kg                   | HHER01-01SM          | 单 Single                             | 6.7                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   | 53-153                      | 220-440<br>(V)                | 1250kg                    | 85/105                         |
|                          | HHER01-01DM          | 双 Dual                               | 6.7/2.2                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 90/110                         |
| 2000kg                   | HHER02-01SM          | 单 Single                             | 6.7                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 1  | 87-178                      | 220-440<br>(V)                | 2500kg                    | 130/150                        |
|                          | HHER02-01DM          | 双 Dual                               | 6.7/2.2                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
|                          | HHER02-02SM          | 单 Single                             | 3.3                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 2   |                             |                               |                           | 130/150                        |
|                          | HHER02-02DM          | 双 Dual                               | 3.3/1.0                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
| 3000kg                   | HHER03-01SM          | 单 Single                             | 5.5                              | 3.0                   | 11                                  | 0.5                   | Φ11.2*34 x 1  | 100-178                     | 50/60<br>(HZ)<br>3<br>(Phase) | 3750kg                    | 140/160                        |
|                          | HHER03-01DM          | 双 Dual                               | 5.5/1.8                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-02SM          | 单 Single                             | 3.0                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 2  |                             |                               |                           | 140/160                        |
|                          | HHER03-02DM          | 双 Dual                               | 3.0/1.1                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-03SM          | 单 Single                             | 2.2                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   |                             |                               |                           | 140/160                        |
|                          | HHER03-03DM          | 双 Dual                               | 2.2/0.7                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
| 5000kg                   | HHER05-02SM          | 单 Single                             | 2.7                              | 3.0                   | 11                                  | 0.75                  | Φ11.2*34 x 2  | 100-178                     | 220-440<br>(V)                | 6250kg                    | 215/235                        |
|                          | HHER05-02DM          | 双 Dual                               | 2.7/0.8                          | 3.0/1.1               | 3.5/11                              | 0.3/0.75              |   |                             |                               |                           | 220/240                        |

尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type | 净空高度<br>Headroom<br>H | A   | B   | D   | E   | I  | M  | N  | K  | L  | T   | R   |
|--------------------------|------------|-----------------------|-----|-----|-----|-----|----|----|----|----|----|-----|-----|
| 1000kg                   | HHER01-01  | 516                   | 590 | 276 | 368 | 210 | 31 | 24 | 25 | 42 | 32 | 242 | 167 |
| 2000kg                   | HHER02-01  | 600                   | 699 | 350 | 422 | 264 | 36 | 28 | 35 | 52 | 42 | 242 | 167 |
|                          | HHER02-02  | 600                   | 590 | 276 | 406 | 245 | 36 | 28 | 35 | 52 | 42 | 242 | 167 |
| 3000kg                   | HHER03-01  | 645                   | 699 | 350 | 478 | 307 | 43 | 30 | 34 | 59 | 48 | 242 | 167 |
|                          | HHER03-02  | 820                   | 699 | 350 | 480 | 306 | 43 | 30 | 34 | 59 | 48 | 242 | 167 |
|                          | HHER03-03  | 762                   | 590 | 276 | 425 | 290 | 43 | 30 | 34 | 59 | 48 | 242 | 167 |
| 5000kg                   | HHER05-02  | 810                   | 699 | 350 | 500 | 300 | 54 | 35 | 44 | 60 | 48 | 242 | 167 |

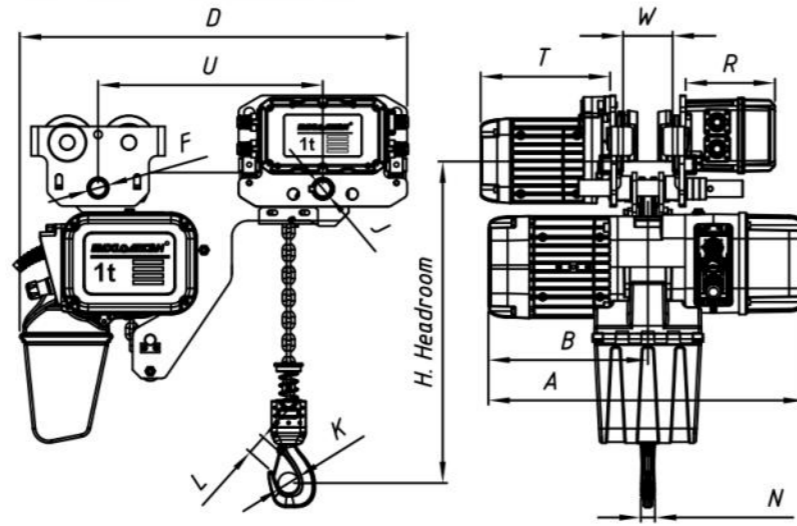
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 低净空运行式 (1t-5t)  
— Ultra Low-headroom type (1t-5t)



HHER 系列环链电动葫芦  
HHER series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套), 电动跑车(1套), 手动跑车(1套), 控制线缆+按钮开关(1套), 无线遥控(选配)  
Standard Accessories: chain bag(1 pcs), Motorized Trolley(1 pcs), Manual Trolley(1 pcs), Handle switch(1 pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇、可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. HHER 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 单速/双速<br>Single speed/<br>Dual speed | 起升电机<br>Lifting motor            |                       | 运行电机<br>Travelling motor            |                       | 载重链<br>Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工字钢<br>Flange width<br>(mm) | 电压<br>Voltage<br>(v)          | 实验载荷<br>Test load<br>(kg) | 净重<br>Net/Gross<br>weight (kg) |
|--------------------------|----------------------|--------------------------------------|----------------------------------|-----------------------|-------------------------------------|-----------------------|---|-----------------------------|-------------------------------|---------------------------|--------------------------------|
|                          |                      |                                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) | 运行速度<br>Traversing speed<br>(m/min) | 输出功率<br>power<br>(kW) |   |                             |                               |                           |                                |
| 1000kg                   | HHER01-01SL          | 单 Single                             | 6.7                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   | 53-153                      | 220-440<br>(V)                | 1250kg                    | 85/105                         |
|                          | HHER01-01DL          | 双 Dual                               | 6.7/2.2                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 90/110                         |
| 2000kg                   | HHER02-01SL          | 单 Single                             | 6.7                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 1  | 87-178                      | 220-440<br>(V)                | 2500kg                    | 130/150                        |
|                          | HHER02-01DL          | 双 Dual                               | 6.7/2.2                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
|                          | HHER02-02SL          | 单 Single                             | 3.3                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 2   |                             |                               |                           | 130/150                        |
|                          | HHER02-02DL          | 双 Dual                               | 3.3/1.0                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
| 3000kg                   | HHER03-01SL          | 单 Single                             | 5.5                              | 3.0                   | 11                                  | 0.5                   | Φ11.2*34 x 1  | 100-178                     | 50/60<br>(HZ)<br>3<br>(Phase) | 3750kg                    | 140/160                        |
|                          | HHER03-01DL          | 双 Dual                               | 5.5/1.8                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-02SL          | 单 Single                             | 3.0                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 2  |                             |                               |                           | 140/160                        |
|                          | HHER03-02DL          | 双 Dual                               | 3.0/1.1                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-03SL          | 单 Single                             | 2.2                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   |                             |                               |                           | 140/160                        |
|                          | HHER03-03DL          | 双 Dual                               | 2.2/0.7                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
| 5000kg                   | HHER05-02SL          | 单 Single                             | 2.7                              | 3.0                   | 11                                  | 0.75                  | Φ11.2*34 x 2  | 100-178                     | 220-440<br>(V)                | 6250kg                    | 215/235                        |
|                          | HHER05-02DL          | 双 Dual                               | 2.7/0.8                          | 3.0/1.1               | 3.5/11                              | 0.3/0.75              |   |                             |                               |                           | 220/240                        |

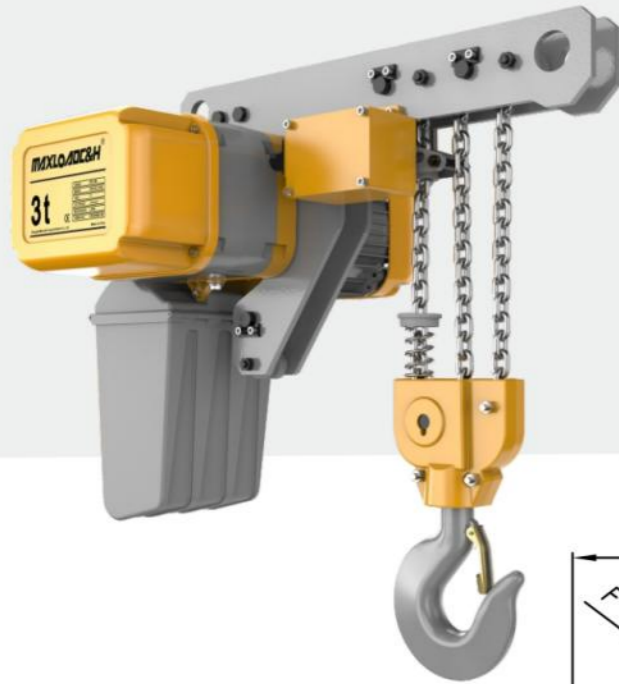
尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type | 净空高度<br>Headroom<br>H | A   | B   | D   | U   | F    | J    | W       | N  | K  | L  | T   | R   |
|--------------------------|------------|-----------------------|-----|-----|-----|-----|------|------|---------|----|----|----|-----|-----|
| 1000kg                   | HHER01-01  | 397                   | 590 | 298 | 725 | 420 | 31.5 | 31.5 | 51-153  | 25 | 42 | 32 | 242 | 167 |
| 2000kg                   | HHER02-01  | 470                   | 699 | 350 | 865 | 514 | 31.5 | 36.5 | 82-178  | 35 | 52 | 42 | 242 | 167 |
|                          | HHER02-02  | 480                   | 590 | 298 | 730 | 423 | 31.5 | 37   | 82-178  | 35 | 52 | 42 | 242 | 167 |
| 3000kg                   | HHER03-01  | 500                   | 699 | 350 | 892 | 529 | 36.5 | 43.5 | 100-178 | 34 | 59 | 48 | 242 | 167 |
|                          | HHER03-02  | 570                   | 699 | 350 | 880 | 514 | 36.5 | 43.5 | 100-178 | 34 | 59 | 48 | 242 | 167 |
|                          | HHER03-03  | 555                   | 590 | 298 | 865 | 546 | 36.5 | 43.5 | 100-178 | 34 | 59 | 48 | 242 | 167 |
| 5000kg                   | HHER05-02  | 605                   | 699 | 350 | 930 | 536 | 43.5 | 54.5 | 100-178 | 44 | 60 | 48 | 242 | 167 |

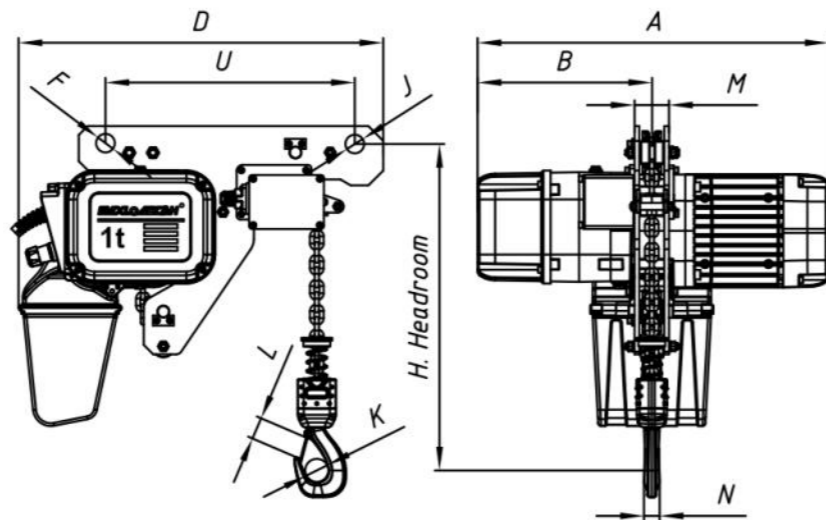
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 低净空固定式 (1t-5t)  
— Ultra Low-headroom Fixed type (1t-5t)



HHER 系列环链电动葫芦  
HHER series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套), 控制线缆+按钮开关(1套), 无线遥控(选配)

Standard Accessories: chain bag(1 pcs), Handle switch(1 pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇、可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. HHER 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Product code | 单速/双速<br>Single speed/<br>Dual speed | 起升电机<br>Lifting motor            |                       | 运行电机<br>Travelling motor            |                       | 载重链<br>Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工字钢<br>Flange width<br>(mm) | 电压<br>Voltage<br>(v)          | 实验载荷<br>Test load<br>(kg) | 净重<br>Net/Gross<br>weight (kg) |
|--------------------------|--------------------|--------------------------------------|----------------------------------|-----------------------|-------------------------------------|-----------------------|---|-----------------------------|-------------------------------|---------------------------|--------------------------------|
|                          |                    |                                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) | 运行速度<br>Travelling speed<br>(m/min) | 输出功率<br>power<br>(kW) |   |                             |                               |                           |                                |
| 1000kg                   | HHER01-01SU        | 单 Single                             | 6.7                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   | 53-153                      | 220-440<br>(V)                | 1250kg                    | 85/105                         |
|                          | HHER01-01DU        | 双 Dual                               | 6.7/2.2                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 90/110                         |
| 2000kg                   | HHER02-01SU        | 单 Single                             | 6.7                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 1  | 87-178                      | 220-440<br>(V)                | 2500kg                    | 130/150                        |
|                          | HHER02-01DU        | 双 Dual                               | 6.7/2.2                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
|                          | HHER02-02SU        | 单 Single                             | 3.3                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 2   |                             |                               |                           | 130/150                        |
|                          | HHER02-02DU        | 双 Dual                               | 3.3/1.0                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 135/155                        |
| 3000kg                   | HHER03-01SU        | 单 Single                             | 5.5                              | 3.0                   | 11                                  | 0.5                   | Φ11.2*34 x 1  | 100-178                     | 50/60<br>(HZ)<br>3<br>(Phase) | 3750kg                    | 140/160                        |
|                          | HHER03-01DU        | 双 Dual                               | 5.5/1.8                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-02SU        | 单 Single                             | 3.0                              | 3.0                   | 11                                  | 0.5                   | Φ10.0*30 x 2  |                             |                               |                           | 140/160                        |
|                          | HHER03-02DU        | 双 Dual                               | 3.0/1.1                          | 3.0/1.1               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
|                          | HHER03-03SU        | 单 Single                             | 2.2                              | 1.5                   | 11                                  | 0.5                   | Φ7.1*21 x 1   |                             |                               |                           | 140/160                        |
|                          | HHER03-03DU        | 双 Dual                               | 2.2/0.7                          | 1.5/0.6               | 3.5/11                              | 0.2/0.5               |   |                             |                               |                           | 145/165                        |
| 5000kg                   | HHER05-02SU        | 单 Single                             | 2.7                              | 3.0                   | 11                                  | 0.75                  | Φ11.2*34 x 2  | 100-178                     | 220-440<br>(V)                | 6250kg                    | 215/235                        |
|                          | HHER05-02DU        | 双 Dual                               | 2.7/0.8                          | 3.0/1.1               | 3.5/11                              | 0.3/0.75              |   |                             |                               |                           | 220/240                        |

尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type | 净空高度<br>Headroom<br>H | A   | B   | D   | U   | F    | J    | M  | N  | K  | L  |
|--------------------------|------------|-----------------------|-----|-----|-----|-----|------|------|----|----|----|----|
| 1000kg                   | HHER01-01  | 397                   | 590 | 298 | 725 | 420 | 31.5 | 31.5 | 24 | 25 | 42 | 32 |
| 2000kg                   | HHER02-01  | 470                   | 699 | 350 | 865 | 514 | 31.5 | 36.5 | 28 | 35 | 52 | 42 |
|                          | HHER02-02  | 480                   | 590 | 298 | 730 | 423 | 31.5 | 37   | 28 | 35 | 52 | 42 |
| 3000kg                   | HHER03-01  | 500                   | 699 | 350 | 892 | 529 | 36.5 | 43.5 | 30 | 34 | 59 | 48 |
|                          | HHER03-02  | 570                   | 699 | 350 | 880 | 514 | 36.5 | 43.5 | 30 | 34 | 59 | 48 |
|                          | HHER03-03  | 555                   | 590 | 298 | 865 | 546 | 36.5 | 43.5 | 30 | 34 | 59 | 48 |
| 5000kg                   | HHER05-02  | 605                   | 699 | 350 | 930 | 536 | 43.5 | 54.5 | 35 | 44 | 60 | 48 |

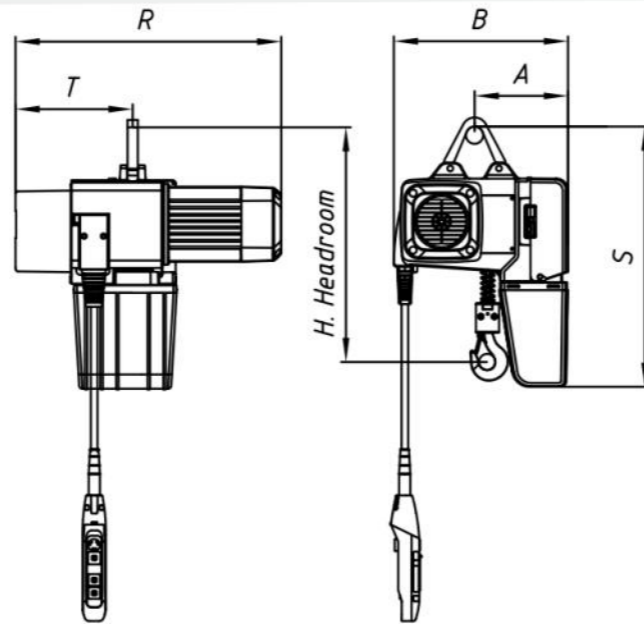
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 固定式 (125kg-2000kg)  
— Fixed type (125kg-2000kg)



DMG 系列环链电动葫芦  
DMG series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套), 控制线缆+按钮开关(1套), 无线遥控(选配)  
Standard Accessories: chain bag(1 pcs), Handle switch(1 pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇, 可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. DMG 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升电机<br>Lifting motor            |                       | 载重链<br>Load chain              | 工作电压<br>Voltage (v)                             | 实验载荷<br>Test load (kg) | 净重<br>Net/Gross<br>weight (kg) |
|--------------------------|----------------------|----------------------------------|-----------------------|--------------------------------|---|------------------------|--------------------------------|
|                          |                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) | 直径 x 回数<br>Dia x falls<br>(mm) |   |                        |                                |
| 125kg                    | DMG0.125-01DS        | 8/2                              | 0.4/0.1               | Φ5.1 x 1                       | 220-440<br>(V)<br>50/60<br>(HZ)<br>3<br>(Phase) | 156                    | 28                             |
|                          | DMG0.125-01DSF       | 13/3.2                           | 0.75/0.2              | Φ5.1 x 1                       |   |                        | 28                             |
| 250kg                    | DMG0.25-01DS         | 8/2                              | 0.4/0.1               | Φ5.1 x 1                       |   | 312                    | 28                             |
| 500kg                    | DMG0.5-01DS          | 8/2                              | 0.75/0.2              | Φ5.1 x 1                       |   | 625                    | 28                             |
|                          | DMG0.5-02DS          | 4/1                              | 0.4/0.1               | Φ5.1 x 2                       |   |                        | 28                             |
| 1000kg                   | DMG01-01DS           | 8/2                              | 1.5/0.37              | Φ7.1 x 1                       |   | 1250                   | 42                             |
|                          | DMG01-02DS           | 4/1                              | 0.75/0.2              | Φ5.1 x 2                       |   |                        | 42                             |
| 2000kg                   | DMG02-02DS           | 4/1                              | 1.5/0.37              | Φ7.1 x 2                       |   | 2500                   | 53                             |

尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type     | 净空高度<br>Headroom<br>H | A   | B   | S   | L   | R   | T   |
|--------------------------|----------------|-----------------------|-----|-----|-----|-----|-----|-----|
| 125kg                    | DMG0.125-01DS  | 470                   | 201 | 288 | 470 | 440 | 260 | 164 |
|                          | DMG0.125-01DSF | 490                   | 201 | 315 | 495 | 464 | 260 | 164 |
| 250kg                    | DMG0.25-01DS   | 470                   | 201 | 288 | 470 | 440 | 260 | 164 |
| 500kg                    | DMG0.5-01DS    | 490                   | 201 | 315 | 495 | 464 | 260 | 164 |
|                          | DMG0.5-02DS    | 540                   | 201 | 315 | 470 | 440 | 260 | 164 |
| 1000kg                   | DMG01-01DS     | 600                   | 340 | 343 | 680 | 548 | 305 | 190 |
|                          | DMG01-02DS     | 560                   | 315 | 315 | 495 | 464 | 260 | 164 |
| 2000kg                   | DMG02-02DS     | 670                   | 340 | 343 | 690 | 548 | 290 | 200 |

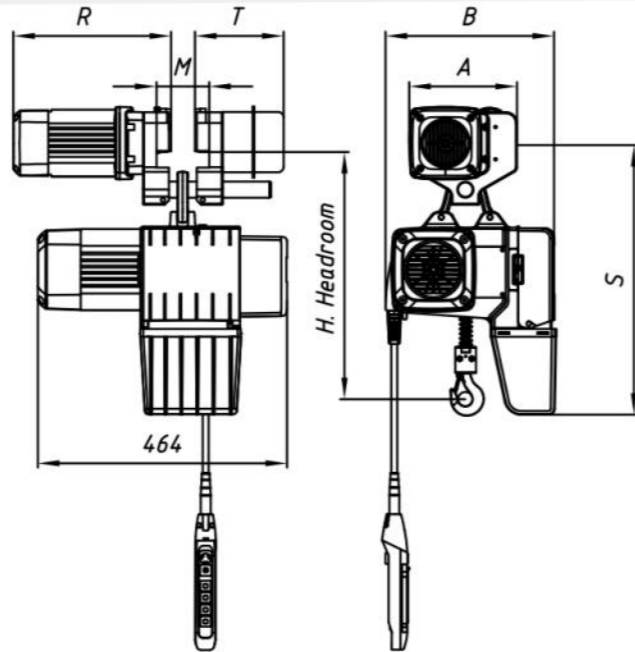
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 电动跑车运行式 (125kg-2000kg)  
— Motorized Trolley type (125kg-2000kg)



DMG 系列环链电动葫芦  
DMG series  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套), 控制线缆+按钮开关(1套), 无线遥控(选配)

Standard Accessories: chain bag(1 pcs), Handle switch(1 pcs), remote control(Optional)

1. 内置式摩擦离合器, 当葫芦超载或限位失效时起安全保护作用;
2. 上下限位均采用双限位开关, 防止单限位失效导致葫芦冲顶;
3. 采用风冷式电机, 独特的散热片结构以及强排风扇, 可有效控制电机温度、适应高强度作业;
4. 制动系统均采用电流式电磁制动器, 强劲有力, 没有热衰减, 有效保证制动力矩;
5. 电动葫芦配备总接触器, 一键启动, 一键停止;
6. 控制手柄均配备启动+急停按钮(防护等级IP56);
7. 电动葫芦取得欧盟CE认证(符合指令2006/42/EC, 2014/35/EU, 2014/30/EU);
8. DMG 系列电动葫芦均可选配: 超载限制器、电机过热保护器、无线遥控器等;

参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升电机<br>Lifting motor            |                       | 运行电机<br>Travelling motor            |                       | 载重链<br>Load chain<br>直径 × 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage (v)                             | 实验载荷<br>Test load (kg) | 净重<br>Net/Gross<br>weight (kg) |   |      |     |
|--------------------------|----------------------|----------------------------------|-----------------------|-------------------------------------|-----------------------|---|---|------------------------|--------------------------------|---|------|-----|
|                          |                      | 起升速度<br>Lifting speed<br>(m/min) | 输出功率<br>power<br>(kW) | 运行速度<br>Travelling speed<br>(m/min) | 输出功率<br>power<br>(kW) |   |   |                        |                                |   |      |     |
| 125kg                    | DMG0.125-01DM        | 8/2                              | 0.4/0.1               | 10 or 5/20                          | 0.4                   | Φ5.1 x 1  | 220-440<br>(V)<br>50/60<br>(HZ)<br>3<br>(Phase) | 156                    | 55                             |   |      |     |
|                          | DMG0.125-01DMF       | 13/3.2                           | 0.75/0.2              |                                     |                       |   |   |                        | 55                             |   |      |     |
| 250kg                    | DMG0.25-01DM         | 8/2                              | 0.4/0.1               |                                     |                       |   |   | 312                    | 55                             |   |      |     |
| 500kg                    | DMG0.5-01DM          | 8/2                              | 0.75/0.2              |                                     |                       |   |   | 0.4                    | Φ5.1 x 1                       | 220-440<br>(V)<br>50/60<br>(HZ)<br>3<br>(Phase) | 625  | 61  |
|                          | DMG0.5-02DM          | 4/1                              | 0.4/0.1               |                                     |                       |   |   |                        |                                |   |      | 61  |
| 1000kg                   | DMG01-01DM           | 8/2                              | 1.5/0.37              |                                     |                       |   |   | 0.4                    | Φ7.1 x 1                       |   | 1250 | 83  |
|                          | DMG01-02DM           | 4/1                              | 0.75/0.2              |                                     |                       |   |   |                        |                                |   |      | 104 |
| 2000kg                   | DMG02-02DM           | 4/1                              | 1.5/0.37              |                                     |                       |   |   | 0.4                    | Φ7.1 x 2                       |   | 2500 | 122 |

尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 型号<br>Type     | 净空高度<br>Headroom<br>H | A   | B   | S   | L   | R   | T   | M       |
|--------------------------|----------------|-----------------------|-----|-----|-----|-----|-----|-----|---------|
| 125kg                    | DMG0.125-01DM  | 470                   | 201 | 288 | 470 | 440 | 260 | 164 | 100-200 |
|                          | DMG0.125-01DMF | 490                   | 201 | 315 | 495 | 464 | 260 | 164 | 100-200 |
| 250kg                    | DMG0.25-01DM   | 470                   | 201 | 288 | 470 | 440 | 260 | 164 | 100-200 |
| 500kg                    | DMG0.5-01DM    | 490                   | 201 | 315 | 495 | 464 | 260 | 164 | 100-200 |
|                          | DMG0.5-02DM    | 540                   | 201 | 315 | 470 | 440 | 260 | 164 | 100-200 |
| 1000kg                   | DMG01-01DM     | 600                   | 340 | 343 | 680 | 548 | 305 | 190 | 100-200 |
|                          | DMG01-02DM     | 560                   | 315 | 315 | 495 | 464 | 260 | 164 | 100-200 |
| 2000kg                   | DMG02-02DM     | 670                   | 340 | 343 | 690 | 548 | 290 | 200 | 100-200 |

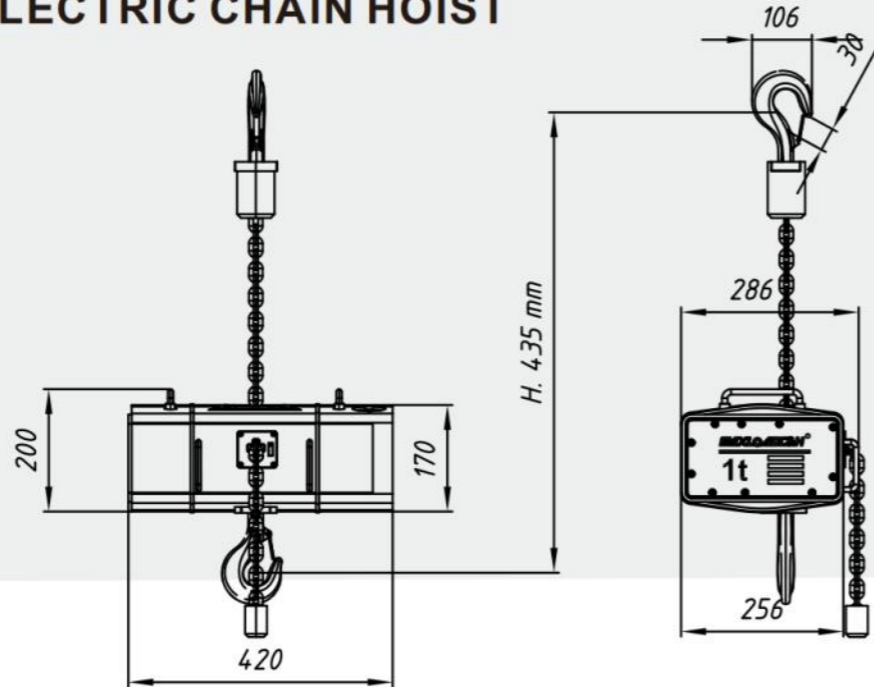
1. Built-in friction clutch acts as a safety protection when the hoist is overloaded or the limit fails;
2. Both the upper and lower limits adopt double limit switches to prevent the failure of a single limit and causing the hoist to top out;
3. It adopts air-cooled motor, unique heat sink structure and strong exhaust fan, which can effectively control the motor temperature and adapt to high-intensity operations;
4. The braking systems all use current-type electromagnetic brakes, which are powerful and have no thermal attenuation, effectively ensuring the braking torque;
5. The electric hoist is equipped with a main contactor, one-button start and one-button stop;
6. The control handles are equipped with start + emergency stop buttons (protection level IP56);
7. The Hoists has obtained EU CE certification (2006/42/EC, 2014/35/EU, 2014/30/EU);



— 舞台吊电动葫芦 (倒吊葫芦) (0.5t&1t)  
— Stage use Electric Chain Hoist (0.5t&1t)



HHST系列 D8+ 舞台电动葫芦  
HHST series D8+ LOADMASTER  
ELECTRIC CHAIN HOIST



标准配件: 链条袋(1套)、航空箱 (1套); 选配: 控制线缆+集中控制盒;  
Standard Accessories: chain bag(1 pcs), Flight case(1 pcs); Optional: Handle switch, Synchronous Controller;

拓起公司HHST系列D8+为舞台专用电动葫芦, 又称爬式电动提升机, 可实现正挂或者倒挂两种吊装和安装方式。

主要适用于舞台搭建领域固定安装, 商场条幅吊装, 适用于舞台搭建、流动演出、舞台置景、音响灯光布置、条幅吊装。在剧院、各种类型的竞技场和运动场所均广泛使用。

HHST系列电动葫芦可单控货多机联动设计, 满足您的各种作业需求。

The Maxloadc&h Company's HHST D8+ LOADMASTER series is a stage-specific electric chain hoist that can be hoisted in two ways: upright or inverted.

Mainly suitable for stage installation in the field of stage construction, shopping mall banner hoisting, suitable for stage construction, mobile performances, stage scenery, sound and lighting arrangement. It is widely used in theaters, various types of arenas and sports venues.

HHST series D8+ electric chain hoist can be designed with single control or multi-machine linkage to meet your various operational needs.

| 产品型号<br>Model | 额定载荷<br>S.W.L.<br>(kg) | 起升高度<br>H.O.L.<br>(meter) | 起升速度<br>Lifting speed<br>(m/min) | 电机功率<br>Power<br>(kw) | 电磁刹车<br>Electromagnetic<br>brake | 极限限位<br>Limit switch | 链条规格<br>Chain size<br>(mm) | 电压<br>Voltage<br>(v)                            | 工作等级<br>Working grade                           | 试验载荷<br>Test load | 净毛重<br>Net/Gross<br>weight<br>(kg) |       |
|---------------|------------------------|---------------------------|----------------------------------|-----------------------|----------------------------------|----------------------|----------------------------|---|---|-------------------|------------------------------------|-------|
| HHST-500S     | 500kg                  | 20/24/28/32               | 8                                | 0.9                   | 单<br>Single brake                | 不含<br>Not included   | Φ7.0*20                    | 220-440<br>(V)<br>50/60<br>(HZ)<br>3<br>(Phase) | Ip66  | 1500kg            | 60/80                              |       |
| HHST-500S+    |                        | 20/24/28/32               | 8                                | 0.9                   | 双<br>Dual brakes                 | 包含<br>Included       | Φ7.0*20                    |   | Ip66  | 1500kg            | 61/80                              |       |
| HHST-500D8    |                        | 20/24/28/32               | 8                                | 0.9                   | 单<br>Single brake                | 不含<br>Not included   | Φ7.0*20                    |   | Ip66  | 1500kg            | 60/80                              |       |
| HHST-500D8+   |                        | 20/24/28/32               | 8                                | 0.9                   | 双<br>Dual brakes                 | 包含<br>Included       | Φ7.0*20                    |   | Ip66  | 1500kg            | 61/80                              |       |
| HHST-1000S    | 1000kg                 | 20/24/28/32               | 4                                | 0.75                  | 单<br>Single brake                | 不含<br>Not included   | Φ7.0*20                    |   | 220-440<br>(V)<br>50/60<br>(HZ)<br>3<br>(Phase) | Ip66              | 1500kg                             | 60/80 |
| HHST-1000S+   |                        | 20/24/28/32               | 4                                | 0.75                  | 双<br>Dual brakes                 | 包含<br>Included       | Φ7.0*20                    |   |   | Ip66              | 1500kg                             | 61/80 |
| HHST-1000D8   |                        | 20/24/28/32               | 4                                | 0.75                  | 单<br>Single brake                | 不含<br>Not included   | Φ7.0*20                    |   |   | Ip66              | 1500kg                             | 60/80 |
| HHST-1000D8+  |                        | 20/24/28/32               | 4                                | 0.75                  | 双<br>Dual brakes                 | 包含<br>Included       | Φ7.0*20                    |   |   | Ip66              | 1500kg                             | 61/80 |





1. 采用航空铝材材质，极致轻便，易于搬运；
2. 7.2倍安全系数，整机强度高，不易损坏；
3. 配备超载限制器，防止葫芦超载损坏工件或造成安全事故；
4. 制动系统均采用电流式电磁制动器，没有热衰减，有效保证制动力矩；
3. 双14nm的电磁刹车，双刹车制动系统，保证精准刹车，同步控制减少误差。
4. Ip66防护等级，防水设计适合户外使用，并完成雨天及水中浸泡的试验；
5. 自带上下限位开关，并配备可调式限位块，根据需求调整限位距离，省去反锁的控制线；

1. Made of aviation aluminum, extremely light and easy to carry;
2. 7.2 times safety factor, high strength of the whole machine, not easy to damage;
3. Equipped with overload limiter to prevent overloading of the hoist from damaging the workpiece or causing safety accidents;
4. The braking system uses current electromagnetic brakes, no thermal decay, ensuring the braking torque;
3. Dual 14nm electromagnetic brakes, dual brake braking system, to ensure precise braking, synchronous control to reduce errors.
4. IP66 protection level, waterproof design suitable for outdoor use, completed rainy & water immersion tests;
5. Comes with upper and lower limit switches, and is equipped with adjustable limit blocks, adjusts the limit distance according to needs, and eliminates the control line of anti-locking;

所有HHST/D8+系列电动葫芦均配备以下部件：  
过载保护摩擦离合器；防腐防锈G100级别镀锌链条；

The HHST/D8+ LOADMASTER Electric Chain Hoist all equipped with:  
The clutch, located outside the load path, acts as a precise overload device.  
The zinc plated or Black Phosphate Star Grade EN chain satisfies EN818-7 standards.



轮式航空箱  
Fly Case



便携式同步控制器  
Protobale Synchronous Controller



同步控制器  
Synchronous Controller



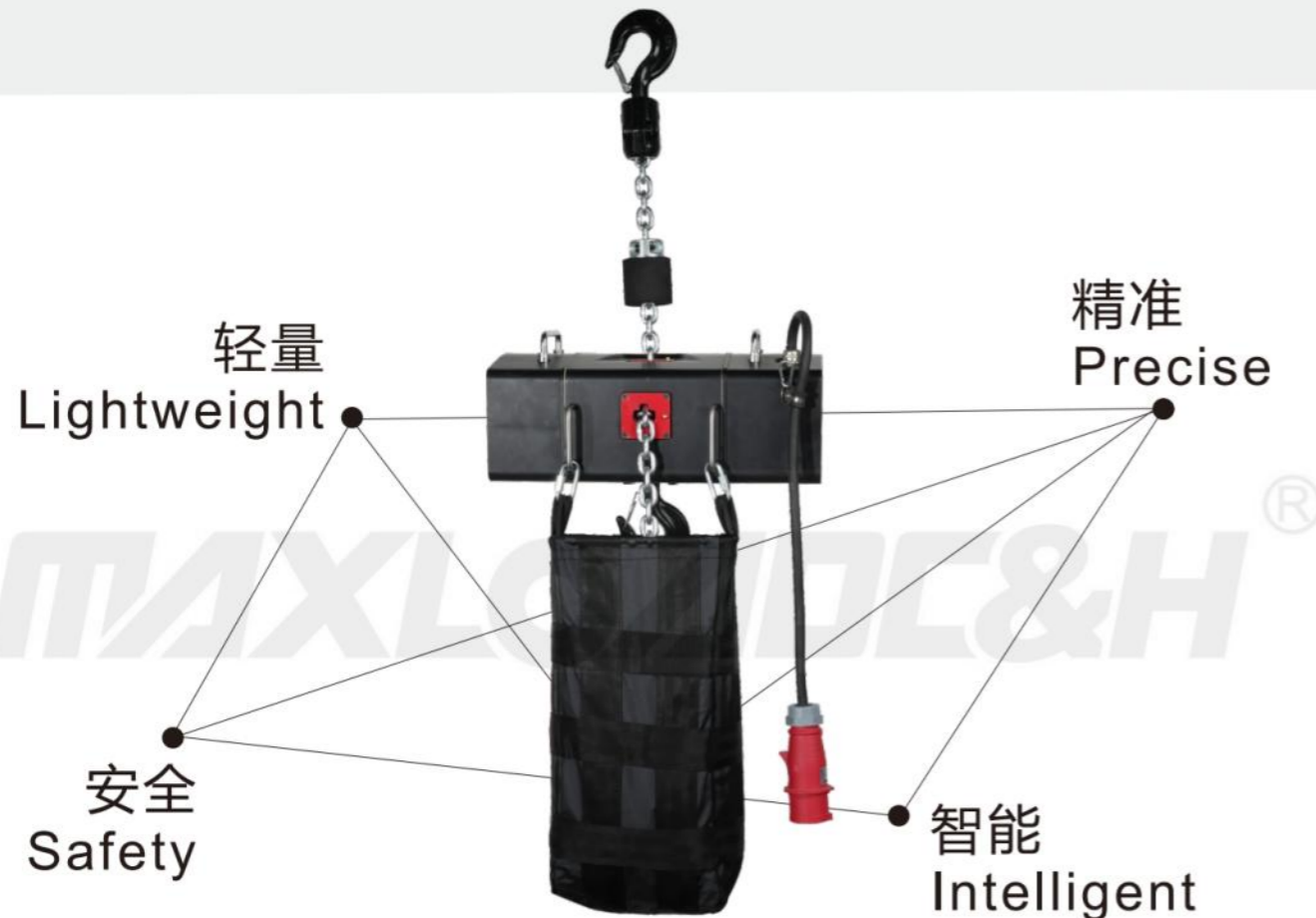
工字钢卡钳  
I-beam calipers



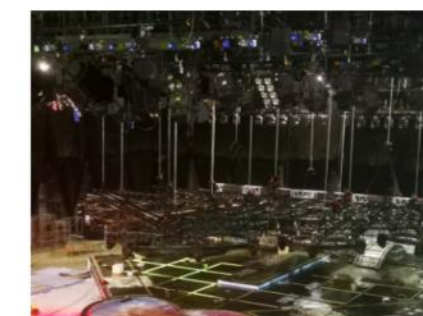
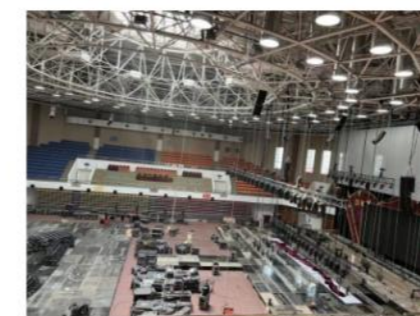
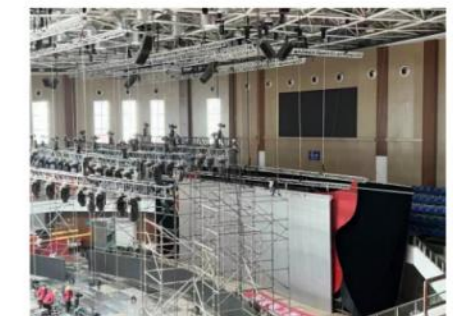
吊带  
Suspenders



拉紧器  
Tensioner



**案例展示/Case Presentation**







## HHEXP系列防爆环链电动葫芦 HHEXP series Explosion-Proof ELECTRIC CHAIN HOIST

HHEXP系列防爆电动链葫芦被广泛应用于各个工业领域。在各种可燃气体和蒸气的爆炸性环境中，必须特别注意。在这种防爆的环境中，推荐使用HHEXP系列的电动葫芦

HHEXP Serious Electric chain hoists are well accepted in various industrial fields. In explosive atmospheres of various ignitable gases and vapors, special attention must be required. In such special atmospheres, HHEXP Series Electric Chain Hoists are recommended.

产品的设计、制造及检验均符合Q/LA0003-2014 《防爆环链电动葫芦》的规定。  
The design, manufacture and inspection of this product are in compliance with the requirements of Q/LA0003-2014 "Explosion-proof Electric Chain Hoist".

|   |   |
|---|---|
| 电源                                      | 200V(50/60Hz),220V(60Hz),380V(50Hz),400V(50Hz),415V(50Hz),440V(60Hz),3相电<br>其他电压可以定制  |
| 控制电压                                    | 24/36/48V   |
| 操作方法                                    | 吊钩式按钮控制线(地面操作)<br>(2-按钮系统为钩悬挂式和手动操作型小车。4-按钮系统用于电动车类型。)  |
| 供电方法                                    | 电缆供电系统  |
| 按钮控制线, 电源线                              | 橡皮绝缘软电缆(3RNCT)  |
| 电机绝缘                                    | F级  |
| 制动系统                                    | 电机制动  |
| Power source                            | 200V(50/60Hz),220V(60Hz),380V(50Hz),400V(50Hz),415V(50Hz),440V(60Hz), 3 phase.<br>Other voltages are available upon request.  |
| Operation voltage                       | 24/36/48V   |
| Operation method                        | Pendant type push button cord (floor operation)<br>(2-push-button-system for both hook suspension type and manual operated type trolley.<br>4-push-button-system for motorized trolley type.) |
| Power supply method                     | Cable power supply system   |
| Push button cord and power supply cable | Rubber insulated flexible cable(3RNCT)  |
| Insulation of motor                     | F class   |
| Braking system for lifting and lowering | Pull-rotor motor brake  |

### 使用环境

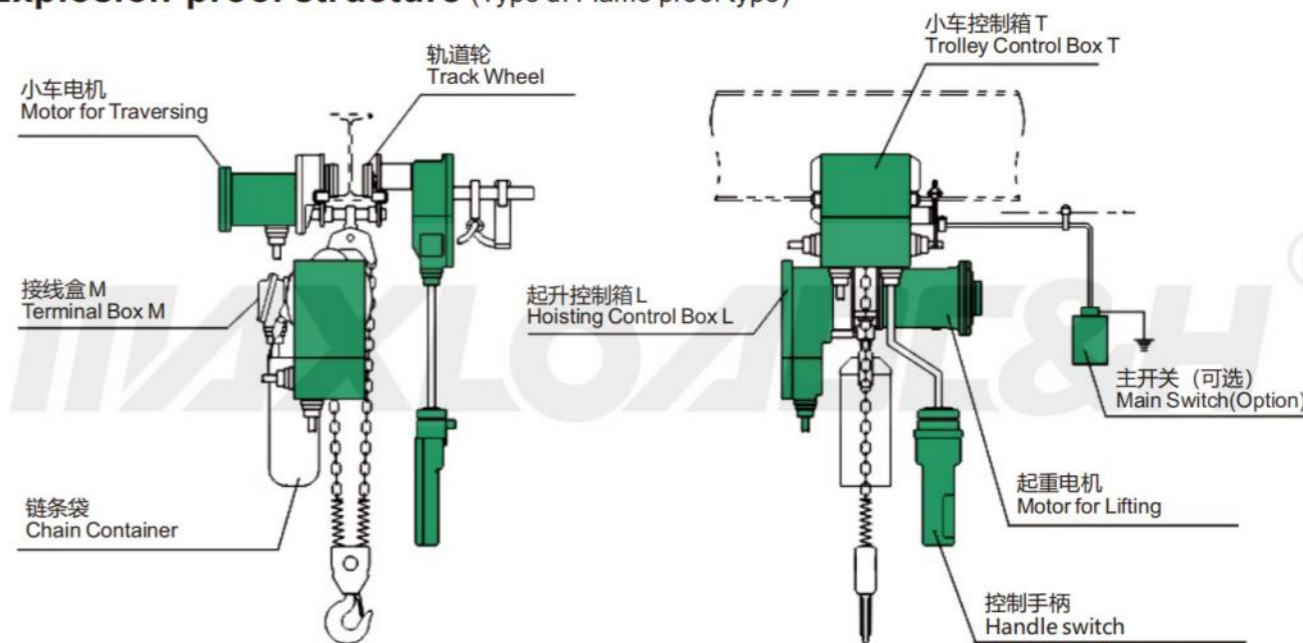
- (1)海拔1000米以下。
- (2)周围空气温度不高于+40℃，不低于-20℃。
- (3)电网波动在±10%。
- (4)相对湿度不超过95%，能防止滴水的场合。

### Usage environment

- (1) Below an altitude of 1000 meters.
- (2) The ambient air temperature should not exceed +40℃ and should not be lower than -20℃.
- (3) The fluctuation of the power grid is within ±10%.
- (4) In situations where the relative humidity does not exceed 95% and can prevent dripping.

### 防爆结构 (d型: 隔爆型外壳)

### Explosion-proof structure (Type d: Flame proof type)

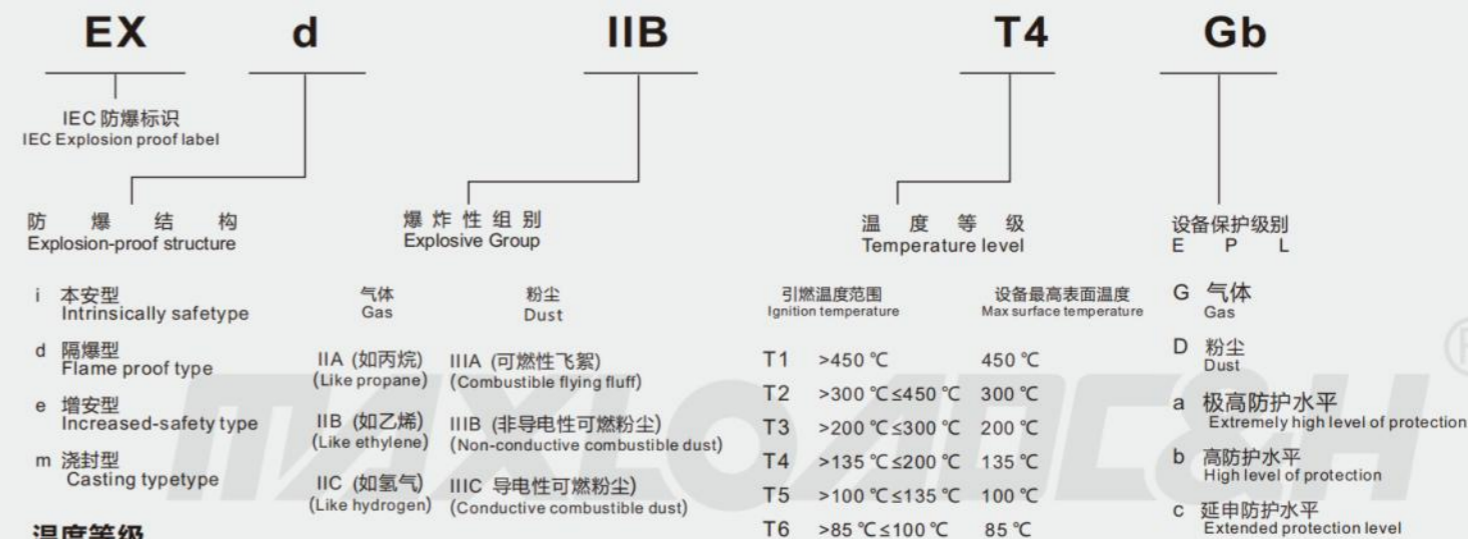


■ 防爆部件  
Explosion-proof Part

图中阴影显示部分■为防爆建设。相应的，电子部件具有足够的强度以承受在JB/T10222-2011指示的内部压力。

The section ■ in the figure shows the explosion-protected construction. Accordingly electric parts have sufficient strength to withstand the internal pressure indicated in JB/T10222-2011

## 标识关键信息/Identify key information



### 温度等级

| 最高表面温度<br>Max surface temperature | 气体温度等级 Gas temperature level  |         | 最高表面温度<br>Max surface temperature | 气体温度等级 Gas temperature level  |         |
|-----------------------------------|-------------------------------|---------|-----------------------------------|-------------------------------|---------|
|                                   | 设备标识 Equipment identification | NEC 500 |                                   | 设备标识 Equipment identification | NEC 500 |
| 450℃                              | T1                            | T1      | 200℃                              | T3                            | T3      |
| 300℃                              | T2                            | T2      | 180℃                              | T3A                           |         |
| 450℃                              | T2A                           |         | 165℃                              | T3B                           |         |
| 300℃                              | T2B                           |         | 160℃                              | T3C                           |         |
| 450℃                              | T2C                           |         | 135℃                              | T4                            | T4      |
| 300℃                              | T2D                           | 120℃    | T4A                               |                               |         |
|                                   |                               | 100℃    | T5                                | T5                            |         |
|                                   |                               | 85℃     | T6                                | T6                            |         |

粉尘指示最高表面温度，单位为℃。

| 组别一 Group 1    | 爆炸性气体环境 Explosive gas environment        |
|----------------|--|
| 细分 Subdivision | 典型气体 Typical gas                         |
| IIA            | 丙烷 Propane                               |
| IIB            | 乙烯 Ethylene                              |
| IIC            | 氢气 Hydrogen                              |
|                | 乙炔 Acetylene                             |
| 组别二 Group 2    | 爆炸性粉尘环境 Explosive dust environment       |
| 细分 Subdivision | 典型粉尘 Typical dust                        |
| IIIA           | 可燃性飞絮 Combustible flying fluff           |
| IIBB           | 非导电性可燃粉尘 Non-conductive combustible dust |
| IICC           | 导电性可燃粉尘 Conductive combustible dust      |

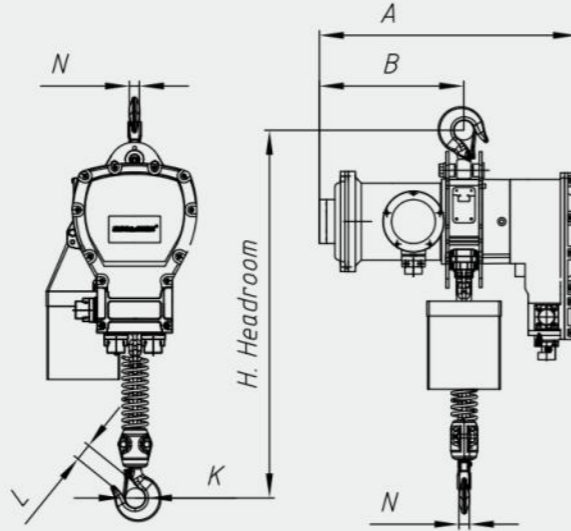


# 1t-5t HHEXP...SS/BT4

HHEXP/BT4 series  
防爆环链电动葫芦  
Explosion-Proof Electric Chain Hoist



Ex d IIB T4 Gb\_(IEC 60079-0)  
Ex tD A21 IP65 T135°\_(GB12476-2013)

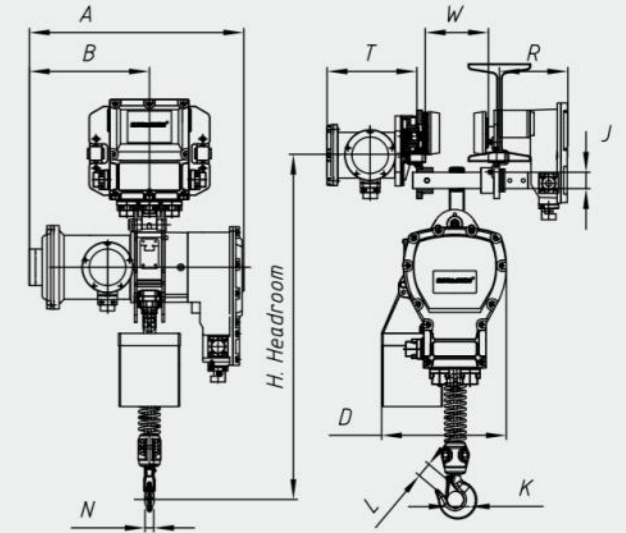


# 1t-5t HHEXP... SM/BT4

HHEXP/BT4 series  
防爆环链电动葫芦  
Explosion-Proof Electric Chain Hoist



Ex d IIB T4 Gb\_(IEC 60079-0)  
Ex tD A21 IP65 T135°\_(GB12476-2013)



## 参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升高度<br>H.O.L.(mtr) | 起升电机/Lifting motor         |            |                       | 载重链/Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage (v) |
|--------------------------|----------------------|---------------------|----------------------------|------------|-----------------------|--|---------------------|
|                          |                      |                     | 起升速度/Lifting speed (m/min) |            | 输出功率<br>power<br>(kW) |  |                     |
|                          |                      |                     | 单速/1-speed                 | 双速/2-speed |                       |  |                     |
| 1000kg                   | HHEXP01-01SS/BT4     | 4                   | 6.8                        | 7.2/2.4    | 1.5                   | 3<br>(Phase)<br>220-440<br>(V)<br>50/60<br>(Hz)  |                     |
| 2000kg                   | HHEXP02-01SS/BT4     | 4                   | 6.8                        | 6.8/2.3    | 3.0                   |  |                     |
|                          | HHEXP02-02SS/BT4     | 4                   | 3.4                        | 3.6/1.2    | 1.5                   |  |                     |
| 3000kg                   | HHEXP03-01SS/BT4     | 4                   | 5.4                        | 5.4/1.8    | 3.0                   |  |                     |
|                          | HHEXP03-02SS/BT4     | 4                   | 3.4                        | 3.4/1.1    | 3.0                   |  |                     |
| 5000kg                   | HHEXP05-02SS/BT4     | 4                   | 2.7                        | 2.7/0.9    | 3.0                   |  |                     |

## 尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 净空高度<br>Headroom<br>H | A   | B   | K  | L  | N  |
|--------------------------|----------------------|-----------------------|-----|-----|----|----|----|
| 1000kg                   | HHEXP01-01SS/BT4     | 650                   | 600 | 330 | 40 | 31 | 24 |
| 2000kg                   | HHEXP02-01SS/BT4     | 770                   | 725 | 350 | 49 | 35 | 30 |
|                          | HHEXP02-02SS/BT4     | 740                   | 600 | 330 | 49 | 35 | 30 |
| 3000kg                   | HHEXP03-01SS/BT4     | 840                   | 725 | 350 | 59 | 42 | 35 |
|                          | HHEXP03-02SS/BT4     | 920                   | 725 | 350 | 59 | 42 | 35 |
| 5000kg                   | HHEXP05-02SS/BT4     | 1015                  | 725 | 350 | 60 | 45 | 43 |

## 参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升高度<br>H.O.L (mtr) | 起升电机/Lifting motor         |            |                       | 运行电机/Travelling motor               |                       | 载重链/Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage (v) |
|--------------------------|----------------------|---------------------|----------------------------|------------|-----------------------|-------------------------------------|-----------------------|--|---------------------|
|                          |                      |                     | 起升速度/Lifting speed (m/min) |            | 输出功率<br>power<br>(kW) | 运行速度<br>Travelling speed<br>(m/min) | 输出功率<br>power<br>(kW) |  |                     |
|                          |                      |                     | 单速/1-speed                 | 双速/2-speed |                       |                                     |                       |  |                     |
| 1000kg                   | HHEXP01-01SM/BT4     | 4                   | 6.8                        | 7.2/2.4    | 1.5                   | 11 or 21                            | 0.4                   | 3<br>(Phase)<br>220-440<br>(V)<br>50/60<br>(Hz)  |                     |
| 2000kg                   | HHEXP02-01SM/BT4     | 4                   | 6.8                        | 6.8/2.3    | 3.0                   |                                     |                       |  |                     |
|                          | HHEXP02-02SM/BT4     | 4                   | 3.4                        | 3.6/1.2    | 1.5                   |                                     |                       |  |                     |
| 3000kg                   | HHEXP03-01SM/BT4     | 4                   | 5.4                        | 5.4/1.8    | 3.0                   |                                     |                       |  |                     |
|                          | HHEXP03-02SM/BT4     | 4                   | 3.4                        | 3.4/1.1    | 3.0                   |                                     |                       |  |                     |
| 5000kg                   | HHEXP05-02SM/BT4     | 4                   | 2.7                        | 2.7/0.9    | 3.0                   | 0.75                                | Φ 11.2*34 x 2         |  |                     |

## 尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 净空高度<br>Headroom<br>H | W       | A   | B   | D   | K  | L  | N  | J  | R   | T   |
|--------------------------|----------------------|-----------------------|---------|-----|-----|-----|----|----|----|----|-----|-----|
| 1000kg                   | HHEXP01-01SM/BT4     | 650                   | 80-160  | 600 | 330 | 300 | 40 | 31 | 24 | 31 | 224 | 298 |
| 2000kg                   | HHEXP02-01SM/BT4     | 770                   | 82-178  | 725 | 350 | 430 | 49 | 35 | 30 | 36 | 224 | 298 |
|                          | HHEXP02-02SM/BT4     | 740                   |         | 600 | 330 | 300 | 49 | 35 | 30 | 36 | 224 | 298 |
| 3000kg                   | HHEXP03-01SM/BT4     | 840                   | 100-180 | 725 | 350 | 470 | 59 | 42 | 35 | 43 | 224 | 298 |
|                          | HHEXP03-02SM/BT4     | 920                   |         | 725 | 350 | 430 | 59 | 42 | 35 | 43 | 224 | 298 |
| 5000kg                   | HHEXP05-02SM/BT4     | 1015                  |         | 725 | 350 | 430 | 60 | 45 | 43 | 54 | 224 | 298 |

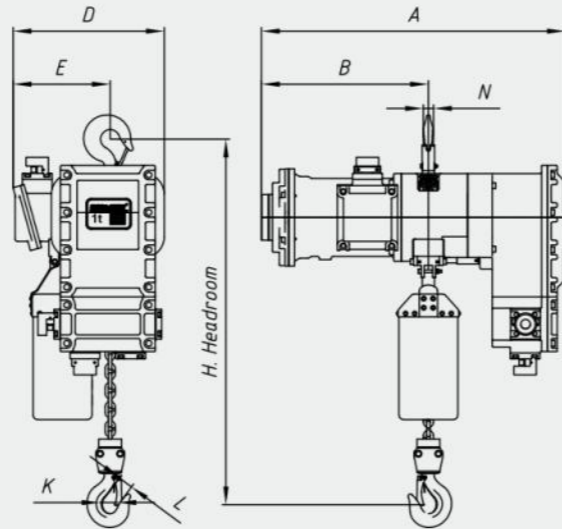


# 1t-5t HHEXP...SS/CT4

HHEXP/CT4 series  
防爆环链电动葫芦  
Explosion-Proof Electric Chain Hoist



Ex d IIC T4 Gb (IEC 60079-0)  
Ex tDA21 IP65 T135° (GB12476-2013)



## 参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升高度<br>H.O.L. (mtr) | 起升电机/Lifting motor        |               |                       | 载重链/Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage (v) |
|--------------------------|----------------------|----------------------|---------------------------|---------------|-----------------------|--|---------------------|
|                          |                      |                      | 起升速度/Lifting speed(m/min) |               | 输出功率<br>power<br>(kW) |  |                     |
|                          |                      |                      | 单速/Single speed           | 双速/Dual speed |                       |  |                     |
| 1000kg                   | HHEXP01-01SS/CT4     | 4                    | 6.8                       | 7.2/2.4       | 1.5                   | 3<br>(Phase)<br>220-440<br>(V)<br>50/60<br>(Hz)  |                     |
| 2000kg                   | HHEXP02-01SS/CT4     | 4                    | 6.8                       | 6.8/2.3       | 3.0                   |  |                     |
|                          | HHEXP02-02SS/CT4     | 4                    | 3.4                       | 3.6/1.2       | 1.5                   |  |                     |
| 3000kg                   | HHEXP03-01SS/CT4     | 4                    | 5.4                       | 5.4/1.8       | 3.0                   |  |                     |
|                          | HHEXP03-02SS/CT4     | 4                    | 3.4                       | 3.4/1.1       | 3.0                   |  |                     |
| 5000kg                   | HHEXP05-02SS/CT4     | 4                    | 2.7                       | 2.7/0.9       | 3.0                   |  |                     |

## 尺寸信息/Dimension Information

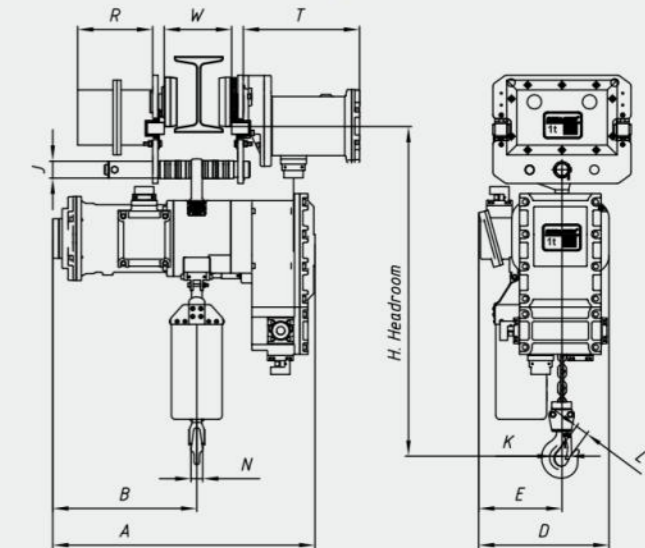
| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 净空高度<br>Headroom<br>H | A   | B   | D   | E   | K  | L  | N  |
|--------------------------|----------------------|-----------------------|-----|-----|-----|-----|----|----|----|
| 1000kg                   | HHEXP01-01SS/CT4     | 600                   | 600 | 330 | 300 | 176 | 40 | 31 | 24 |
| 2000kg                   | HHEXP02-01SS/CT4     | 800                   | 725 | 350 | 430 | 265 | 49 | 35 | 30 |
|                          | HHEXP02-02SS/CT4     | 750                   | 600 | 330 | 300 | 230 | 49 | 35 | 30 |
| 3000kg                   | HHEXP03-01SS/CT4     | 845                   | 675 | 325 | 430 | 265 | 59 | 42 | 35 |
|                          | HHEXP03-02SS/CT4     | 950                   | 675 | 325 | 430 | 320 | 59 | 42 | 35 |
| 5000kg                   | HHEXP05-02SS/CT4     | 1030                  | 675 | 325 | 430 | 325 | 60 | 45 | 43 |

# 1t-5t HHEXP... SM/CT4

HHEXP/CT4 series  
防爆环链电动葫芦  
Explosion-Proof Electric Chain Hoist



Ex d IIC T4 Gb (IEC 60079-0)  
Ex tDA21 IP65 T135° (GB12476-2013)



## 参数规格/Parameter Specification

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 起升高度<br>H.O.L. (mtr) | 起升电机/Lifting motor         |            |                                     | 运行电机/Travelling motor |     | 载重链/Load chain<br>直径 x 回数<br>Dia x falls<br>(mm) | 工作电压<br>Voltage (v) |
|--------------------------|----------------------|----------------------|----------------------------|------------|-------------------------------------|-----------------------|-----|--|---------------------|
|                          |                      |                      | 起升速度/Lifting speed (m/min) |            | 运行速度<br>Travelling speed<br>(m/min) | 输出功率<br>power<br>(kW) |     |  |                     |
|                          |                      |                      | 单速/1-speed                 | 双速/2-speed |                                     |                       |     |  |                     |
| 1000kg                   | HHEXP01-01SM/CT4     | 4                    | 6.8                        | 7.2/2.4    | 1.5                                 | 11 or 21              | 0.4 | 3<br>(Phase)<br>220-440<br>(V)<br>50/60<br>(Hz)  |                     |
| 2000kg                   | HHEXP02-01SM/CT4     | 4                    | 6.8                        | 6.8/2.3    | 3.0                                 |                       |     |  |                     |
|                          | HHEXP02-02SM/CT4     | 4                    | 3.4                        | 3.6/1.2    | 1.5                                 |                       |     |  |                     |
| 3000kg                   | HHEXP03-01SM/CT4     | 4                    | 5.4                        | 5.4/1.8    | 3.0                                 |                       |     |  |                     |
|                          | HHEXP03-02SM/CT4     | 4                    | 3.4                        | 3.4/1.1    | 3.0                                 |                       |     |  |                     |
| 5000kg                   | HHEXP05-02SM/CT4     | 4                    | 2.7                        | 2.7/0.9    | 3.0                                 |                       |     |  | 0.75                |

## 尺寸信息/Dimension Information

| 额定载荷<br>Capacity<br>(kg) | 产品型号<br>Product code | 净空高度<br>Headroom<br>H | W       | A   | B   | D   | E   | K  | L  | N  | J  | R   | T   |
|--------------------------|----------------------|-----------------------|---------|-----|-----|-----|-----|----|----|----|----|-----|-----|
| 1000kg                   | HHEXP01-01SM/CT4     | 650                   | 80-160  | 600 | 330 | 300 | 176 | 40 | 31 | 24 | 31 | 224 | 298 |
| 2000kg                   | HHEXP02-01SM/CT4     | 770                   | 82-178  | 725 | 350 | 430 | 265 | 49 | 35 | 30 | 36 | 224 | 298 |
|                          | HHEXP02-02SM/CT4     | 740                   |         | 600 | 330 | 300 | 230 | 49 | 35 | 30 | 36 | 224 | 298 |
| 3000kg                   | HHEXP03-01SM/CT4     | 840                   | 100-180 | 725 | 350 | 470 | 265 | 59 | 42 | 35 | 43 | 224 | 298 |
|                          | HHEXP03-02SM/CT4     | 920                   |         | 725 | 350 | 430 | 320 | 59 | 42 | 35 | 43 | 224 | 298 |
| 5000kg                   | HHEXP05-02SM/CT4     | 920                   |         | 725 | 350 | 430 | 325 | 60 | 45 | 43 | 54 | 224 | 298 |

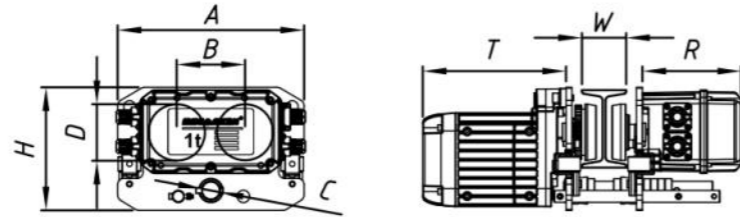


## HMT 电动小车 HMT Motorized Trolley



### 尺寸信息/Dimension Information

| 型号/Product Code                  |   | HMT-0.5 | HMT-01 | HMT-02 | HMT-03 | HMT-05 | HMT-7.5 | HMT-10  |
|----------------------------------|---|---------|--------|--------|--------|--------|---------|---------|
| 载荷/Capacity                      |   | 500kg   | 1000kg | 2000kg | 3000kg | 5000kg | 7500kg  | 10000kg |
| 单位/Unit (mm)                     | A | 315     | 316    | 340    | 400    | 500    |         |         |
|                                  | B | 111     | 127    | 142    | 157    | 192    |         |         |
|                                  | C | Φ31     | Φ36    | Φ43    | Φ54    | Φ70    |         |         |
|                                  | D | Φ95     | Φ110   | Φ124   | Φ139   | Φ175   |         |         |
|                                  | H | 206     | 222    | 248    | 290    | 370    |         |         |
|                                  | T | 242     |        |        |        |        |         |         |
|                                  | R | 167     |        |        |        |        |         |         |
| 运行速度 (m/min)<br>Travelling Speed |   | 10(20)  |        |        |        | 10     | 10      |         |
| 最小转弯半径 (mm)<br>Min. Radius Curve |   | 800     |        | 1000   | 1800   | 2500   |         |         |
| 净重/Net Weight (kg)               |   | 22      | 41     | 49     | 61     | 82     | 138     |         |



## HPT 手动小车 HPT Plain Trolley



### 尺寸信息/Dimension Information

| Product Code 型号                 |   | HPT-0.5 | HPT-01 | HPT-02 | HPT-03 | HPT-05 |
|---------------------------------|---|---------|--------|--------|--------|--------|
| Capacity 载荷                     |   | 500kg   | 1000kg | 2000kg | 3000kg | 5000kg |
| Unit 单位 (mm)                    | A | 250     | 310    | 358    |        |        |
|                                 | B | 115     | 138    | 156    |        |        |
|                                 | C | Φ31     | Φ36    | Φ43    | Φ54    |        |
|                                 | H | 149     | 178    | 208    |        |        |
|                                 | D | Φ101    | Φ116   | Φ140   |        |        |
|                                 | d | Φ70     | Φ84    | Φ93    |        |        |
| Min. Radius Curve<br>最小转弯半径(mm) |   | 600     | 1000   | 1200   |        |        |
| Unit Weight 净重(kg)              |   | 5.5     | 9.5    | 14.5   | 24.5   | 37.8   |



## 电动葫芦等级划分/Hoist Classifications

### ISO/JIS

| State of loading   | Total duration of use (h) |     |     |     |      |      |      |       |       |
|--|---------------------------|-----|-----|-----|------|------|------|-------|-------|
|  |                           | 200 | 400 | 800 | 1600 | 3200 | 6300 | 12500 | 25000 |
| Light<br>Mechanisms subjected very rarely to the maximum load and, normally, to light loads                    |                           | -   | -   | M1  | M2   | M3   | M4   | M5    | M6    |
| Moderate<br>Mechanisms subjected fairly frequently to the maximum load but, normally, to rather moderate loads |                           | -   | M1  | M2  | M3   | M4   | M5   | M6    | -     |
| Heavy<br>Mechanisms subjected frequently to the maximum load and, normally, to loads of heavy magnitude        |                           | M1  | M2  | M3  | M4   | M5   | M6   | -     | -     |
| Very heavy<br>Mechanisms subjected regularly to the maximum load   |                           | M2  | M3  | M4  | M5   | M6   | -    | -     | -     |

This classification refers to ISO 4301-1 and applies to the mechanical components including gears and bearings except for consumable parts.

### ASME HST

| Hoist duty class | Typical areas of application  | Operation time ratings at $K=0.65$ |                     |                                   |                    |
|------------------|---|------------------------------------|---------------------|-----------------------------------|--------------------|
|                  |   | Uniformly distributed work periods |                     | Infrequent work periods           |                    |
|                  |   | Max. on time, min/ hr              | Max. No. starts/ hr | Max. on time from cold start, min | Max. No. of starts |
| H2               | Light machine shop fabricating, service, and maintenance; loads and utilization randomly distributed; rated loads infrequently handled  | 7.6 (12.5%)                        | 75                  | 15                                | 100                |
| H3               | General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed  | 15 (25%)                           | 150                 | 30                                | 200                |
| H4               | High volume handling in steel warehouses, machine shops, fabricating plants and mills, and foundries; manual or automatic cycling operations in heat treating and plating; loads at or near rated load frequently handled | 30 (50%)                           | 300                 | 30                                | 300                |

The grade symbols are identical to those of ASME HST-1M. (Performance standard for Electric Chain Hoist)

### FEM Relation between ISO-and FEM-Denominations

| 1 D <sub>m</sub>                        | 1 C <sub>m</sub> | 1 B <sub>m</sub>        | 1 A <sub>m</sub> | 2 m              | 3 m              | 4 m              | 5 m              | Class of operation time | Average operating time per day (in hours) | Calculated total operating time (in hours) |
|---|------------------|-------------------------|------------------|------------------|------------------|------------------|------------------|-------------------------|---|--|
| M 1                                     | M 2              | M 3                     | M 4              | M 5              | M 6              | M 7              | M 8              |                         |   |  |
| Load spectrum                           | Cubic mean value | Class of operation time |                  |                  |                  |                  |                  |                         |   |  |
|   |                  | V 0.06                  | V 0.02           | V 0.25           | V 0.5            | V 1              | V 2              | V 3                     | V 4                                       | V 5  |
|   |                  | T 0                     | T 1              | T 2              | T 3              | T 4              | T 5              | T 6                     | T 7                                       | T 8  |
| Average operating time per day in hours |                  |                         |                  |                  |                  |                  |                  |                         |   |  |
|   |                  | ≤0.12                   | ≤0.25            | ≤0.5             | ≤1               | ≤2               | ≤4               | ≤8                      | ≤16                                       | >16  |
| 1 L1                                    | K≤0.50           | -                       | -                | 1 D <sub>m</sub> | 1 C <sub>m</sub> | 1 B <sub>m</sub> | 1 A <sub>m</sub> | 2 m                     | 3 m                                       | 4 m  |
| 2 L2                                    | 0.50<K≤0.63      | -                       | 1 D <sub>m</sub> | 1 C <sub>m</sub> | 1 B <sub>m</sub> | 1 A <sub>m</sub> | 2 m              | 3 m                     | 4 m                                       | 5 m  |
| 3 L3                                    | 0.63<K≤0.80      | 1 D <sub>m</sub>        | 1 C <sub>m</sub> | 1 B <sub>m</sub> | 1 A <sub>m</sub> | 2 m              | 3 m              | 4 m                     | 5 m                                       | -  |
| 4 L4                                    | 0.80<K≤1.00      | 1 C <sub>m</sub>        | 1 B <sub>m</sub> | 1 A <sub>m</sub> | 2 m              | 3 m              | 4 m              | 5 m                     | -   | -  |
|   |                  | V0.06                   | T0               | ≤0.12            | 200              |                  |                  |                         |   |  |
|   |                  | V0.12                   | T1               | ≤0.25            | 400              |                  |                  |                         |   |  |
|   |                  | V0.25                   | T2               | ≤0.5             | 800              |                  |                  |                         |   |  |
|   |                  | V0.5                    | T3               | ≤1               | 1,600            |                  |                  |                         |   |  |
|   |                  | V1                      | T4               | ≤2               | 3,200            |                  |                  |                         |   |  |
|   |                  | V2                      | T5               | ≤4               | 6,300            |                  |                  |                         |   |  |
|   |                  | V3                      | T6               | ≤8               | 12,500           |                  |                  |                         |   |  |
|   |                  | V4                      | T7               | ≤16              | 25,000           |                  |                  |                         |   |  |
|   |                  | V5                      | T8               | >16              | 50,000           |                  |                  |                         |   |  |

The grade symbols are identical to those of FEM 9.511. (Rules for Design of Serial Lifting Equipment: Classification of Mechanisms)