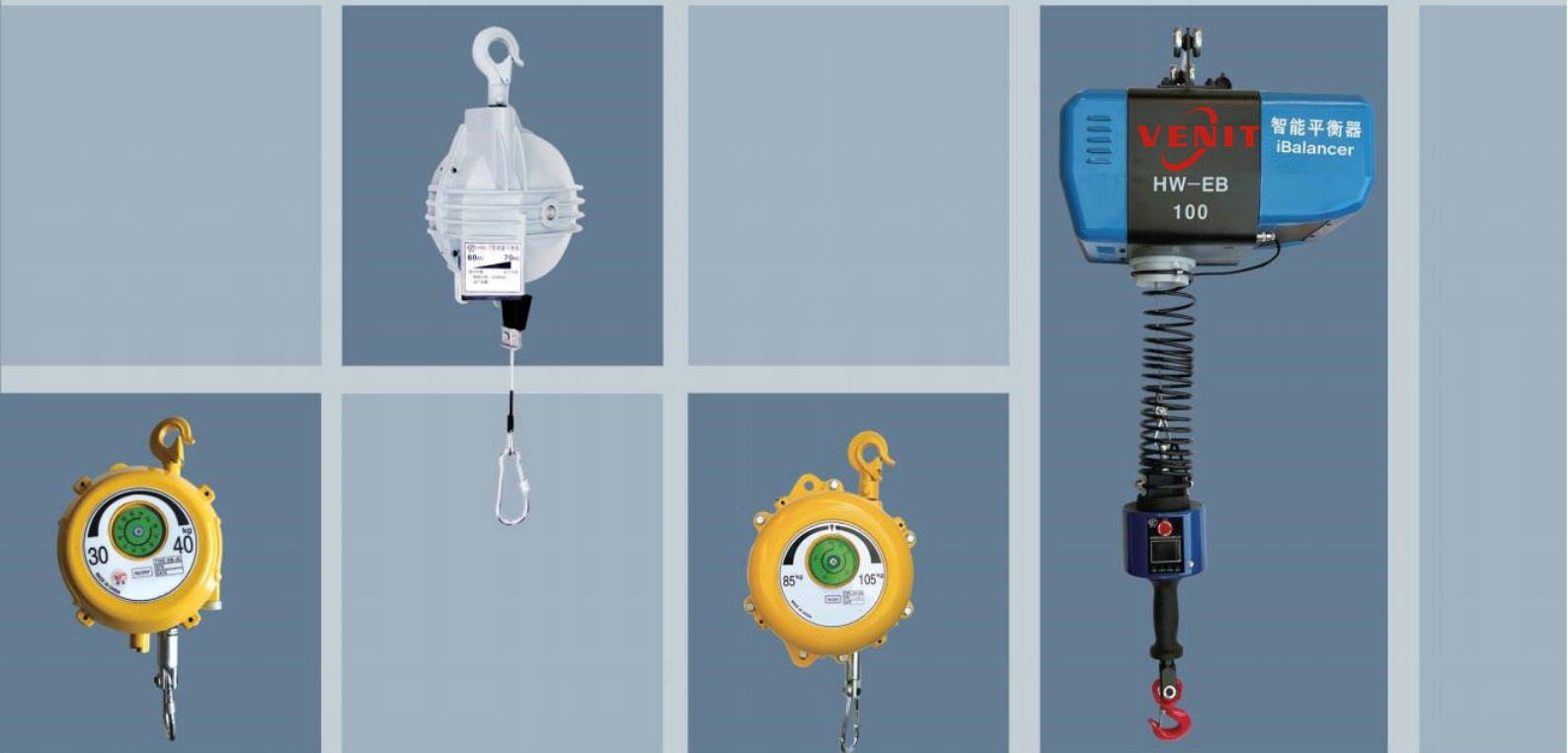




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HW系列弹簧平衡器

HW series Spring Balancer



HW-T系列弹簧平衡器

HW-T series Spring Balancer



HW-EB智能提升机

HW-EB series Intelligent Hoist



# HW弹簧平衡器-微型 (可选带自锁装置)

HW series Spring Balancer - micro (Optional with self-locking device)



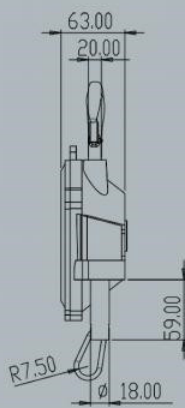
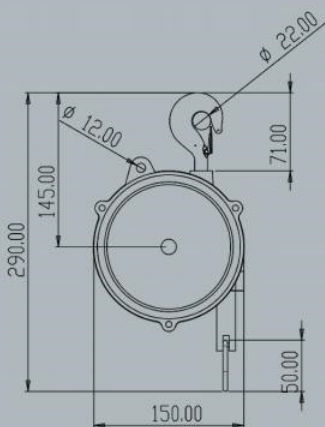
上钩  
Upper hook

保险孔  
Safety hole

调节轴  
Adjusting shaft

手柄  
Handle

下钩  
Lower hook



**载重范围:** 0.5kg-7kg

**行程:** 1.9米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨铝合金铸件。

**绳索:** 高强度钢丝绳带缓冲橡胶。

**弹簧:** 高强度平面卷簧专用弹簧钢, 可通过背后调节轴进行无极载荷调节。

**适用场景:** 悬挂各类小型手动操作工具, 如电动螺丝刀、气动螺丝刀、手动打标机、测量仪器等。

**自锁装置:** 选用自锁款时, 壳体背部会有一块自锁刹盘, 使用时须将平衡器重量调至略大于悬挂物, 当悬挂物快速回缩时即可锁住。

**Load range:** 0.5kg-7kg

**Rope length:** 1.9m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** high-strength wear-resistant aluminium alloy castings.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** Hanging various small manual operation tools, such as electric screwdrivers, pneumatic screwdrivers, manual marking machines, measuring instruments, etc.

**Self-locking device:** When choosing a self-locking model, there will be a self-locking brake disc on the back of the housing. When using it, the weight of the balancer must be adjusted to slightly greater than that of the suspended object. The self-locking mechanism will engage when the suspended object quickly retracts.

型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-1.5	0.5-1.5	1.9	1.5
HW-3	1-3	1.9	1.5
HW-5	3-5	1.9	1.5
HW-7	5-7	1.9	1.5

# HW 弹簧平衡器-小型

HW series Spring Balancer - small



**载重范围:** 5kg-15kg

**行程:** 1.8米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨尼龙, 可减少对钢丝绳的磨损。

**绳索:** 高强度钢丝绳带缓冲橡胶。

**弹簧:** 高强度平面卷簧专用弹簧钢, 可通过调节轴进行无极载荷调节。

**适用场景:** 悬挂各类小型手动操作工具、分体式悬挂焊机的电缆。

**远程锁定装置:** 远程锁定功能是在原本传统的锁定功能上改进的, 将锁止装置从侧面调整到下面, 避免了登梯操作的风险, 操作时只需用远程杆配备抓钩即可进行远程锁定。

**Load range:** 5kg-15kg

**Rope length:** 1.8m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** High-strength and wear-resistant nylon, which can reduce the wear and tear on the steel wire rope.

**Rope:** High-strength steel wire rope with cushioned rubber.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** Suspension of various small manual operation tools and the cables of split-type suspension welding machines.

**Remote locking device:** The remote locking function is an improvement on the traditional locking function, which moves the locking device from the side to the bottom to avoid the risk of ladder operation. When operating, remote locking can be performed with a remote rod equipped with a hook.

型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-9	5-9	1.8	4.5
HW-15	9-15	1.8	4.5

# HW弹簧平衡器-中型

## HW series Spring Balancer - medium

**载重范围:** 5kg-30kg

**行程:** 1.5米/2.3米/2.8米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨铝合金铸件。

**绳索:** 高强度钢丝绳带缓冲橡胶。

**弹簧:** 高强度平面卷簧专用弹簧钢, 可通过调节轴进行无极载荷调节。

**适用场景:** 悬挂各类小型手动操作工具、分体式悬挂焊机的电缆。2.3米和2.8米加长行程的适用于悬挂屠宰机械。

**远程锁定装置:** 远程锁定功能是在原本传统的锁定功能上改进的, 将锁止装置从侧面调整到下面, 避免了登梯操作的风险, 操作时只需用远程杆配备抓钩即可进行远程锁定。

**可选配置:** 可选配2.3米行程和2.8米行程。

**Load range:** 5kg-30kg

**Rope length:** 1.5m/2.3m/2.8m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** High-strength wear-resistant aluminium alloy castings.

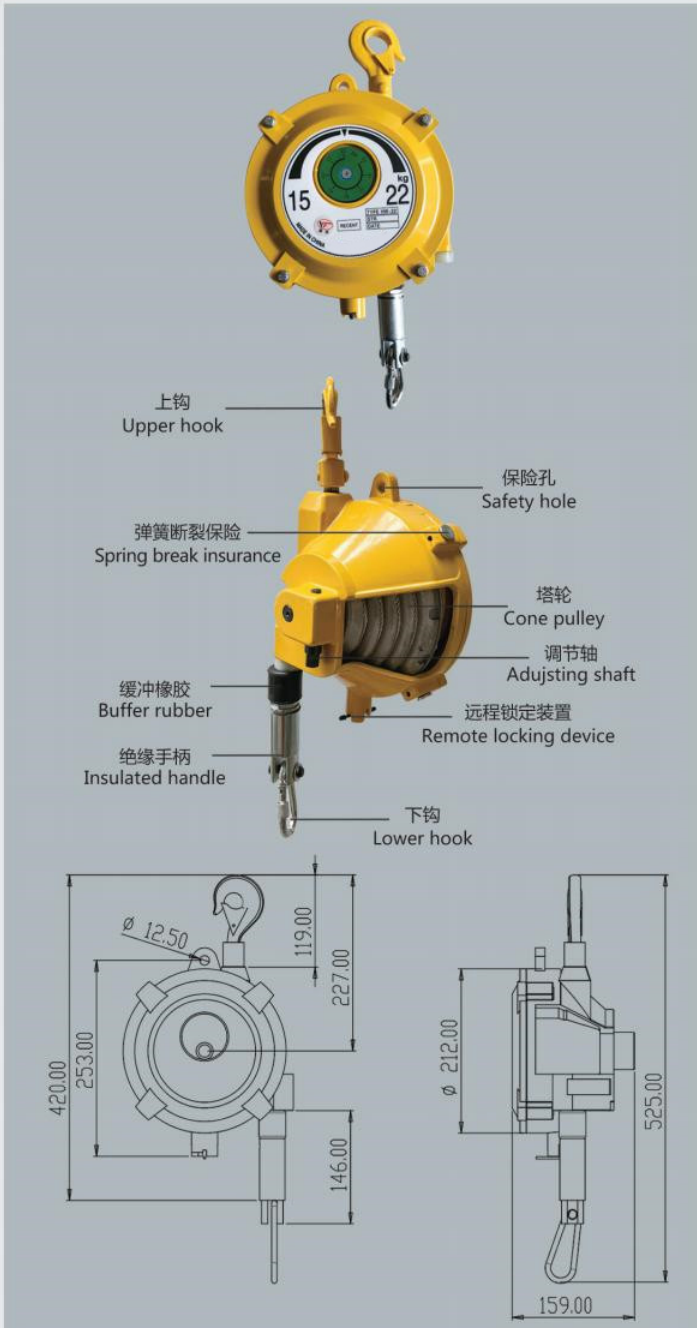
**Rope:** High-strength steel wire rope with cushioned rubber.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** Suspension of various small manual operation tools and the cables of split-type suspension welding machines. The 2.3-meter and 2.8-meter extended stroke models are suitable for hanging slaughterhouse machinery.

**Remote locking device:** The remote locking function is an improvement on the traditional locking function, which moves the locking device from the side to the bottom to avoid the risk of ladder operation. When operating, remote locking can be performed with a remote rod equipped with a hook.

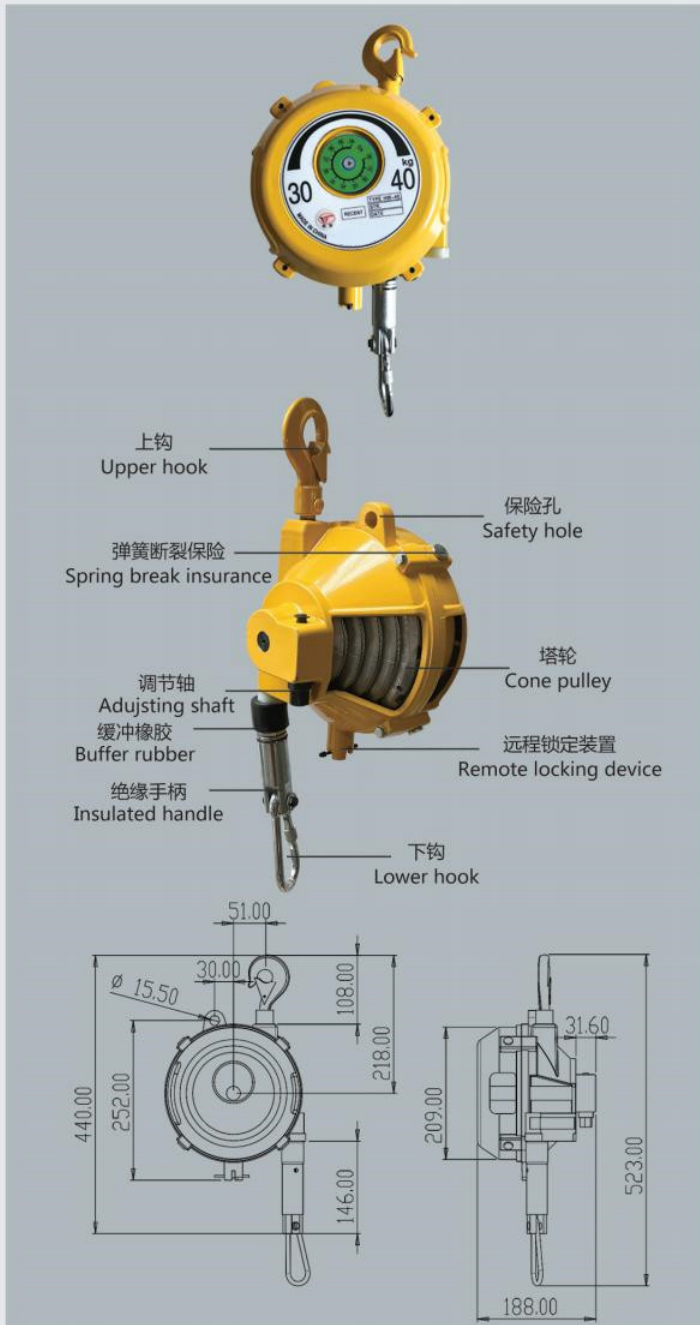
**Optional configuration:** It is possible to select the 2.3-meter stroke and 2.8-meter stroke options.



型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-9	5-9	2.3/2.8	9
HW-15	9-15	2.3/2.8	9
HW-22	15-22	1.5/2.3/2.8	9
HW-30	22-30	1.5/2.3/2.8	10

# HW弹簧平衡器-大型

## HW series Spring Balancer - large



**载重范围:** 30kg-80kg

**行程:** 1.5米/2.3米/2.8米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨铝合金铸件。

**绳索:** 高强度钢丝绳带缓冲橡胶, 并配备绝缘手柄。

**弹簧:** 高强度平面卷簧专用弹簧钢, 可通过调节轴进行无极载荷调节。

**适用场景:** 悬挂各类分体式悬挂焊机的主机以及一体式悬挂焊机的主机, 2.3米和2.8米加长行程的适用于悬挂屠宰机械所需的开片机等。也可集成到机器中使用。

**远程锁定装置:** 远程锁定功能是在原本传统的锁定功能上改进的, 将锁止装置从侧面调整到下面, 避免了登梯操作的风险, 操作时只需用远程杆配备抓钩即可进行远程锁定。

**可选配置:** 可选配2.3米行程和2.8米行程。

**Load range:** 30kg-80kg

**Rope length:** 1.5m/2.3m/2.8m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** High-strength wear-resistant aluminium alloy castings.

**Rope:** High-strength steel wire rope with cushioned rubber and equipped with insulated handle.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** It is suitable for suspending the mainframe of various split-type suspension welding machines and integrated suspension welding machines. The 2.3-meter and 2.8-meter extended stroke models are suitable for hanging equipment such as slicers required for hanging slaughterhouse machinery. It can also be integrated for machine use.

**Remote locking device:** The remote locking function is an improvement on the traditional locking function, which moves the locking device from the side to the bottom to avoid the risk of ladder operation. When operating, remote locking can be performed with a remote rod equipped with a hook.

**Optional configuration:** It is possible to select the 2.3-meter stroke and 2.8-meter stroke options.

型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-40	30-40	1.5/2.3/2.8	10
HW-50	40-50	1.5/2.3/2.8	11
HW-60	50-60	1.5/2.3/2.8	12
HW-70	60-70	1.5/2.3/2.8	13
HW-80	70-80	1.5/2.3/2.8	13



# HW弹簧平衡器-重型

## HW series Spring Balancer - heavy



载重范围: 80kg-200kg

行程: 1.7米

壳体: 高强度耐磨铝合金铸件。

塔轮: 高强度耐磨铝合金铸件。

绳索: 高强度钢丝绳带缓冲橡胶, 并配备绝缘手柄。

弹簧: 高强度平面卷簧专用弹簧钢, 可通过调节轴进行无极载荷调节。

适用场景: 悬挂重型气动工具、重型悬挂焊机, 也可集成到机器中使用。

Load range: 80kg-200kg

Rope length: 1.7m

Housing: High-strength wear-resistant aluminium alloy castings.

Cone pulley: High-strength wear-resistant aluminium alloy castings.

Rope: High-strength steel wire rope with cushioned rubber and equipped with insulated handle.

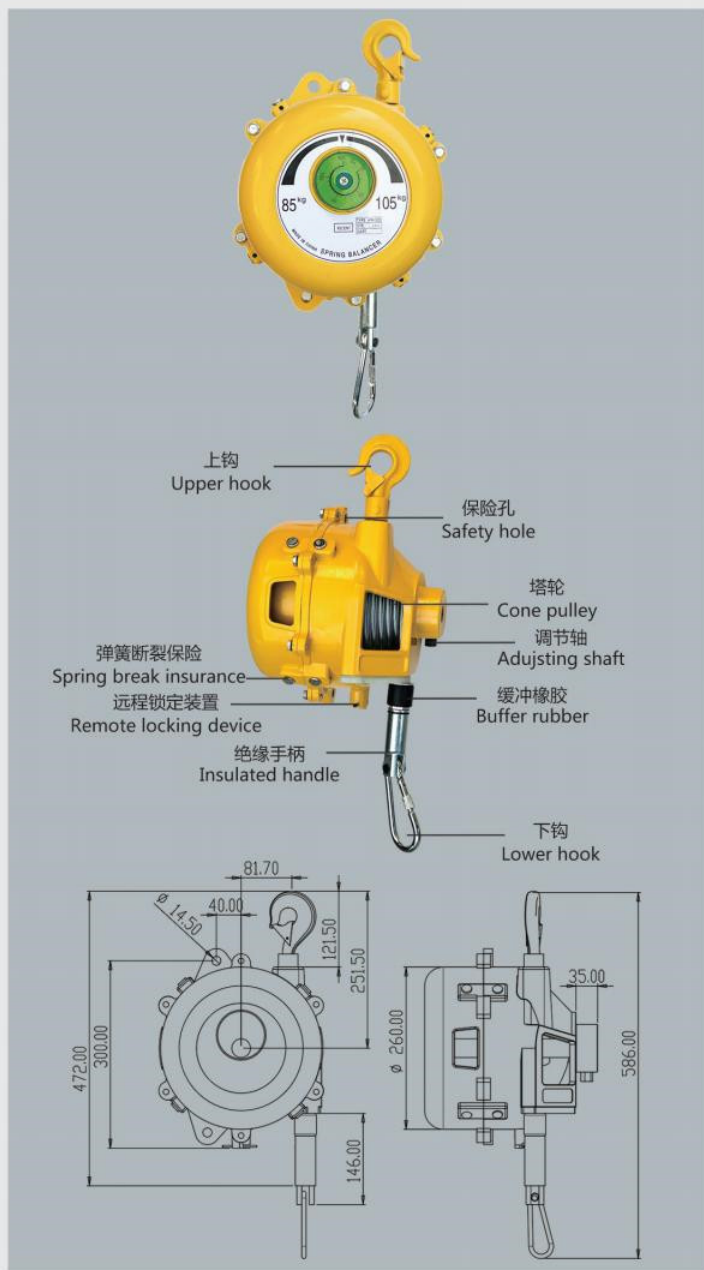
Spring: Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

Applicable scene: It is suitable for suspending heavy-duty pneumatic tools and heavy-duty suspension welding machines. It can also be integrated for machine use.

型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-100	80-100	1.7	19
HW-120	100-120	1.7	20
HW-140	120-140	1.7	21
HW-160	140-160	1.7	22
HW-180	160-180	1.7	22.5
HW-200	180-200	1.7	23

# HW弹簧平衡器-加长重型

## HW series Spring Balancer - extended



**载重范围:** 65kg-205kg

**行程:** 2米/3米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨铝合金铸件, 加大外径尺寸, 以减轻拉动的力度。

**绳索:** 高强度钢丝绳带缓冲橡胶, 并配备绝缘手柄。

**弹簧:** 高强度平面卷簧专用弹簧钢, 可通过调节轴进行无极载荷调节。

**适用场景:** 悬挂重型气动工具、重型悬挂焊机, 屠宰机械开片机等, 也可集成到机器中使用。加长行程可使其适用于更多的场景。

**远程锁定装置:** 远程锁定功能是在原本传统的锁定功能上改进的, 将锁止装置从侧面调整到下面, 避免了登梯操作的风险, 操作时只需用远程杆配备抓钩即可进行远程锁定。

**Load range:** 65kg-205kg

**Rope length:** 2m/3m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** High-strength wear-resistant aluminium alloy castings, increase the outer diameter to reduce the pulling force.

**Rope:** High-strength steel wire rope with cushioned rubber and equipped with insulated handle.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** It is suitable for suspending heavy-duty pneumatic tools, heavy-duty suspension welding machines, slaughter machinery cutting machines, etc. It can also be integrated for machine use. The extended stroke makes it applicable to more scenarios.

**Remote locking device:** The remote locking function is an improvement on the traditional locking function, which moves the locking device from the side to the bottom to avoid the risk of ladder operation. When operating, remote locking can be performed with a remote rod equipped with a hook.

型号 (Type)	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HWII-75	65-75	2/3	22
HWII-85	75-85	2/3	22.5
HWII-105	85-105	2/3	23
HWII-125	105-125	2/3	24
HWII-145	125-145	2/3	24.5
HWII-165	145-165	2/3	25.5
HWII-185	165-185	2/3	26
HWII-205	185-205	2/3	27.5



# 弹簧平衡器-组合方案

## Spring Balancer - Combination Scheme



当所需载重范围超过205公斤时，可选择两台平衡器并联的解决方案。

两台平衡器通过两块连接板连接方可使用。

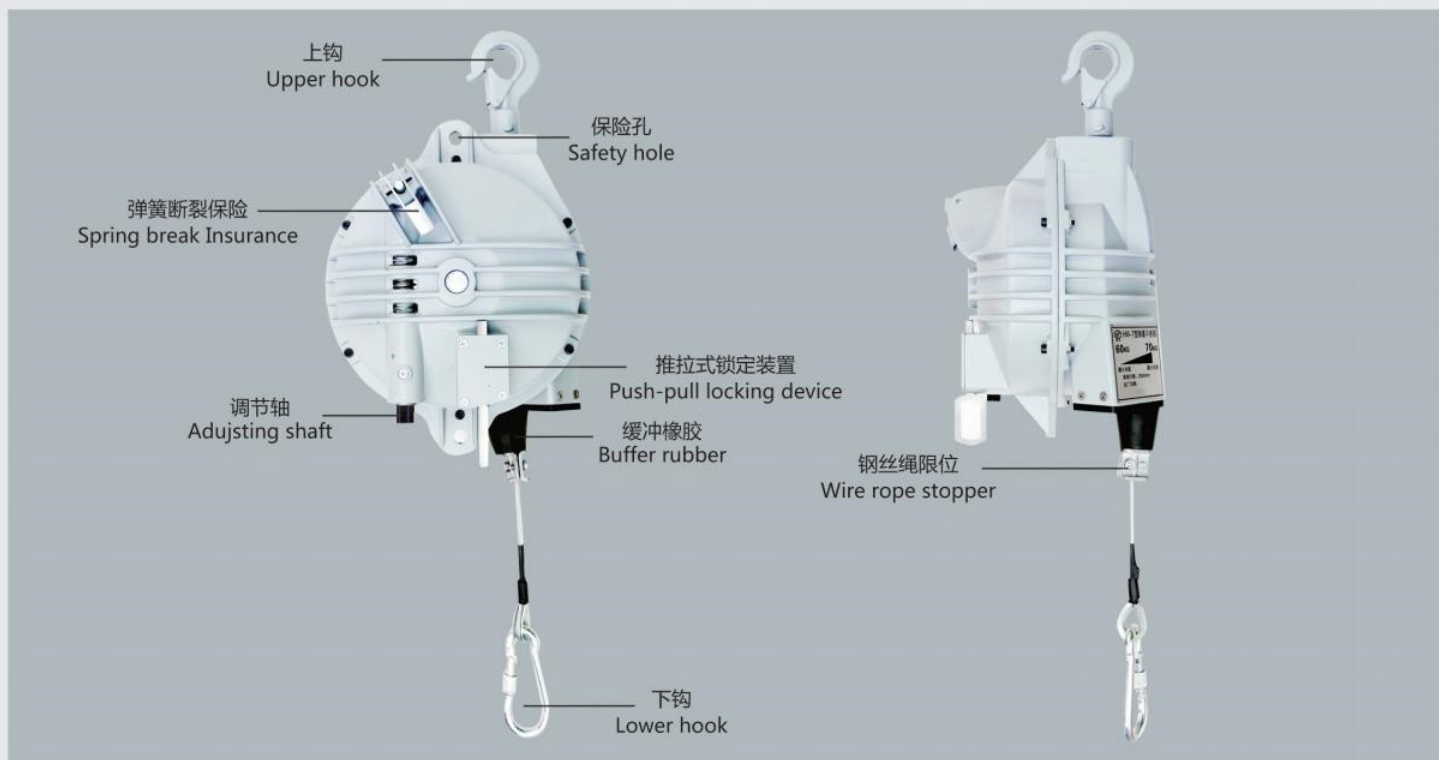
When the required load range exceeds 205 kg, a solution of two parallel balancers can be chosen.

The two balancers can be connected and used through two connecting plates.



# HW-T 弹簧平衡器

## HW-T series Spring Balancer



**载重范围:** 15kg-160kg

**行程:** 2米

**壳体:** 高强度耐磨铝合金铸件。

**塔轮:** 高强度耐磨尼龙, 可减少对钢丝绳的磨损。

**绳索:** 高强度钢丝绳带缓冲橡胶, 通过钢丝绳限位可调节钢丝绳长度。

**弹簧:** 高强度平面卷簧专用弹簧钢。

**适用场景:** 悬挂气动或电动工具、悬挂焊机, 屠宰机械等, 也可集成到机器中使用。

### 优点介绍:

- 1、平衡度提升: 采用更优质的材料制作的弹簧和全新设计的塔轮, 大大增加平衡度。
- 2、使用寿命提升: 塔轮采用全新材料, 耐磨性能提升。
- 3、使用手感提升: 加大外径尺寸, 以减轻拉动的力度。
- 4、容错率提升: 钢丝绳槽加深, 随意斜拉都不会滑槽。

### 安全装置介绍:

- 1、弹簧断裂防坠保护: 弹簧断裂时, 外部止锁装置会弹开, 有效的锁住钢丝绳, 防止所挂工件坠地。
- 2、便携式推拉锁定装置: 在需要临时锁定钢丝绳时, 只需手持一杆站在地面上拉动锁扣即可完成操作。
- 3、重物脱钩保护: 当重物突然脱钩时, 钢丝绳会自动锁住, 防止钢丝绳快速回弹伤人。
- 4、钢丝绳限位保护: 钢丝绳拉到极限时会触发机械锁定, 防止钢丝绳拉出超过限定行程后造成钢丝绳损伤。

**Load range:** 15kg-160kg

**Rope length:** 2m

**Housing:** High-strength wear-resistant aluminium alloy castings.

**Cone pulley:** High-strength and wear-resistant nylon, which can reduce the wear and tear on the steel wire rope.

**Rope:** High-strength steel wire rope with cushioning rubber; the length of the steel wire rope can be adjusted through the steel wire rope limit.

**Spring:** Special spring steel for high-strength plane coil springs, load adjustment can be performed through the rear adjustment shaft.

**Applicable scene:** Suitable for hanging pneumatic or electric tools, hanging welding machines, and slaughtering machinery, etc. It can also be integrated into machines.

### Advantages:

- 1、Improved balance: The use of higher quality materials in the spring and a new cone pulley design greatly improves balance.
- 2、Extended service life: The use of new materials in the cone pulley enhances wear resistance.
- 3、Improved handling: Increased outer diameter size to reduce pulling force.
- 4、Improved fault tolerance: The steel wire rope groove is deeper, preventing the steel wire rope from slipping even when pulled diagonally.

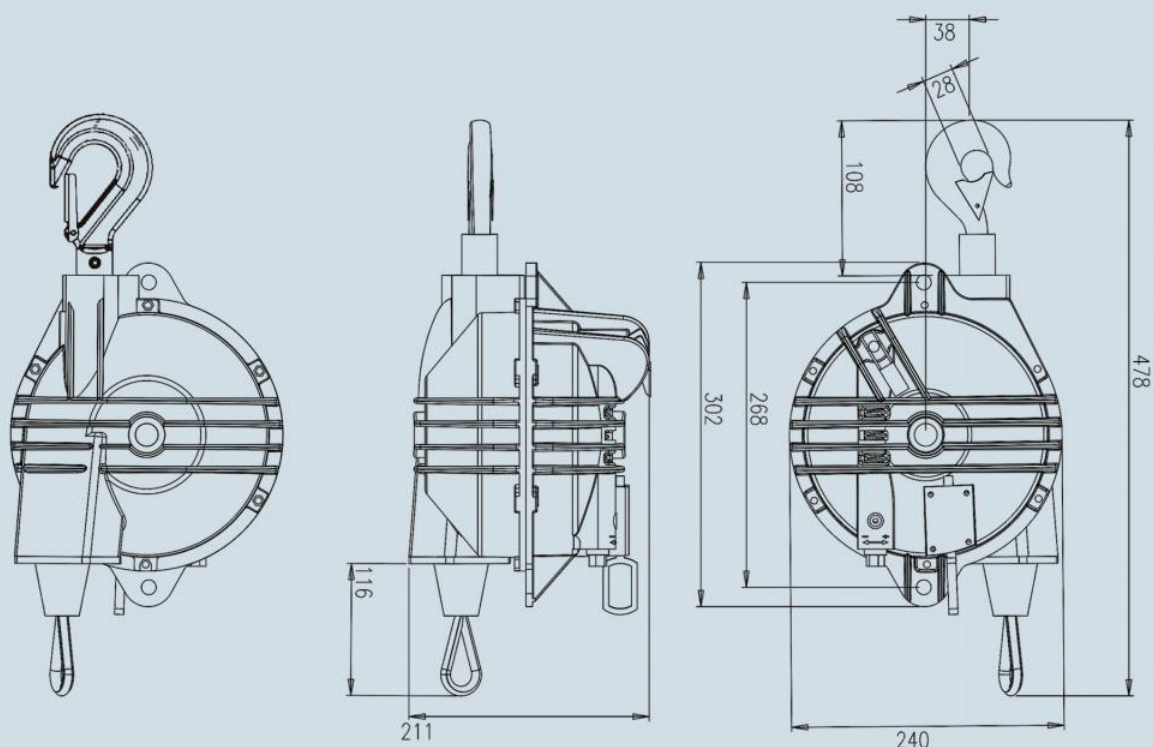
### Safety device introduction:

- 1、Anti-fall protection for spring breakage: When the spring breaks, the external locking device will open and effectively lock the steel wire rope to prevent the hung object from falling to the ground.
- 2、Portable push-pull locking device: When the steel wire rope needs to be temporarily locked, simply hold a lever and pull the lock on the ground to complete the operation.
- 3、Protection against heavy objects becoming unhooked: When a heavy object suddenly becomes unhooked, the steel wire rope will automatically lock to prevent the steel wire rope from snapping back and injuring someone.
- 4、Steel wire rope limit protection: When the steel wire rope is pulled to its limit, a mechanical lock is triggered to prevent the steel wire rope from being pulled out beyond the specified stroke and causing damage to the steel wire rope.



# HW-T 弹簧平衡器

HW-T series Spring Balancer



型号 ( Type )	承载范围(Load)(KG)	行程(Rope length)(M)	自重(Weight)(KG)
HW-T-22	15-22	2	9.8
HW-T-30	22-30	2	10
HW-T-40	30-40	2	12
HW-T-50	40-50	2	12.2
HW-T-60	50-60	2	12.5
HW-T-70	60-70	2	12.8
HW-T-80	70-80	2	13
HW-T-100	80-100	2	18.5
HW-T-120	100-120	2	18.6
HW-T-140	120-140	2	19.65
HW-T-160	140-160	2	19.85

# 智能平衡器

Intelligent Hoist



HW-EB系列智能平衡器突破了传统高端提升装置的双速限制，真正实现了无级变速，提升更顺滑。并采用多种提升模式适应各种工作环境。

The HW-EB series intelligent hoist breaks the traditional two-speed limitation of hoisting equipment and truly achieves stepless speed regulation for smoother lifting. It also adopts multiple lifting modes to adapt to various working environments.

#### 手柄介绍

- 1.手柄模式：将手部动作转化为电子信号，只需握住手柄向上或向下移动，即可抬起或降低物件。
- 2.悬浮模式：利用自动平衡功能，通过直接接触所挂物件实现物件的向上或向下运动。在悬浮模式下可以实现精准定位和放置。
- 3.定长模式：通过设置虚拟限位实现在固定工位上的上下操作，在定长模式下，工件在达到设定位置后会停止，实现更精准的定位。

#### Handle introduction:

- 1.Handle mode: converts hand movements into electronic signals, simply grip the handle and move it up or down to lift or lower objects.
- 2.Suspension mode: uses automatic balance function to move objects up or down by directly contacting the suspended object. Precise positioning and placement can be achieved in suspension mode.
- 3.Fixed-length mode: uses virtual limit settings to perform up and down operations at a fixed work station. In fixed-length mode, the workpiece will stop when it reaches the set position, achieving more precise positioning.

### 手柄按键说明

Intelligent Hoist – Folding boom crane scheme



#### 手柄功能介绍:

- 1、接通电源待液晶显示屏点亮后方可操作。
- 2、拉动手柄可以实现提升或下降的操作。
- 3、按下“悬浮/手柄模式切换按钮”可实现模式切换功能。
- 4、按下“定长”按钮进入定长模式，在此模式下可按“上限位键”或者“下限位键”对上限位和下限位进行设定，按下后立即生效。
- 5、再次按下“定长”按钮退出定长模式。
- 6、在悬浮模式下拉动手柄立即切换为手柄模式。
- 7、当发生紧急情况时，按下“急停开关”可以使手柄停止工作。

#### Introduction to handle functions:

1. Turn on the power and wait for the LCD to light up before operation.
2. Pull the handle to lift or lower.
3. Press the "suspend/handle mode switch button" to realize the mode switch function.
4. Press the "fixed length" button to enter the fixed length mode. In this mode, you can press the "upper limit key" or "lower limit key" to set the upper limit and lower limit, which will take effect immediately after pressing.
5. Press the "fixed length" button again to exit the fixed length mode.
6. Pull the handle in suspension mode to switch to handle mode immediately.
7. When an emergency occurs, press the "emergency stop button" to stop the handle.

### 智能平衡器-技术参数

Insurance Hoist – Technical parameters

技术规格 (Technical specifications)	HW-EB-80	HW-EB-100	HW-EB-300
提升载荷(Load)	80kg	100kg	300kg
行程(Rope length)	3m	3m	3m
电源(Supply voltage)	220v	220v	220v
功率(Power)	1.2KW	1.5KW	2KW
提升速度(Velocity)	36m/分钟	36m/分钟	36m/分钟
钢丝绳直径 (Wire rope diameter)	Φ4mm	Φ4mm	Φ5mm
安装形式 (Installation form)	折臂吊/轨道式框架 (Folding boom crane/Rail-type frame)	折臂吊/轨道式框架 (Folding boom crane/Rail-type frame)	轨道式框架 (Rail-type frame)

# 智能平衡器-折臂吊方案

Intelligent Hoist - Folding boom crane scheme



## 1、操作范围广

与传统的悬臂吊不同，该款折臂吊方案在可以实现360°顺畅旋转，做到整个圆周范围内操作无死角。

## 2、更灵活的应用场景

底座配有滑轮和支撑柱，可以在需要的时候推动到所需工位进行操作。

## 1、 Wide operating range:

Unlike traditional jib cranes, this folding jib crane can smoothly rotate 360 degrees, enabling operations across the entire circular range.

## 2、 More flexible application scenarios:

Equipped with casters and support posts, the base can be pushed to the required work position when needed for operation.



# 智能平衡器-框架式方案

Intelligent Hoist - Frame scheme



## 1、承重范围更大

与折臂吊相比，框架式结构更加牢固，称重范围也更大。

## 2、个性化定制方案

框架式结构可根据现场实际情况进行个性化定制，可以更好的匹配用户的需求。

## 1.Greater load-bearing capacity:

Compared to jib cranes, the frame structure is more robust and has a larger weight-bearing range.

## 2.Personalized customization solutions:

The frame structure can be personalized and customized based on the actual situation on-site, providing a better match for the user's needs.



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