

HIGH LEVEL ACCESS SOLUTIONS



目录：风机塔筒内的攀爬技术
Catalogue: Access technology for wind turbines

HAILO风电系统研发的爬梯系统

全方位的安全保障

作为铝制爬梯的发明者，Hailo将专业的攀爬系统引入欧洲风机塔筒安装领域已超过五十多年，从一开始就是这个领域内的领航者！

时至今日，在安全可靠通道和攀爬装备领域，Hailo风电系统依然是全球市场和技术方面的佼佼者之一。借助我们的爬梯系统、根据客户要求定制的升降机、智能爬梯系统、现代化的防坠落保护系统以及更多的解决方案，我们为风机塔筒设备中的系统提供一切所需设施和解决方案。

我们在4大洲遍布子公司和制造商，客户可以随时与我们遍布全球的合作伙伴和训练有素的服务工程师联系。

在我们提供的广泛服务范围内，我们的国际性培训中心-经GWO（全球风力组织）认证的安全与救援学院（SARA），充分配备了培训塔筒、视频教程和电子学习，为所有行业相关的安全培训和其他培训课程设定了相关标准。

我们满怀热情地为可持续发电和风能设备的安全做出贡献，为此，我们感到无比骄傲，在我们实施的所有项目中，您都能感受到我们的激情。

ACCESS SYSTEMS BY HAILO WIND SYSTEMS

Safety on every level

As the inventor of the aluminium ladder, Hailo introduced the professional ladder system into wind turbine installations in Europe more than 50 years ago. Hailo was therefore there right from the start!

Today, Hailo Wind Systems is one of the world's market and technology leaders for safe and reliable access and climbing solutions. With our premium ladder systems, customized service lifts, smart ladder systems, reliable movable platform, modern fall arrest system solutions and much more, we provide everything for professional access and climbing systems in wind turbines.

Thanks to our own subsidiaries and manufacturers on 4 continents, our customers have access to competent contact partners and highly-trained service engineers worldwide.

As well as the comprehensive range of services that are available, our international and GWO-certified training centre, the Safety And Rescue Academy (S.A.R.A.), with its fully equipped training tower, video tutorials and eLearning, sets the standards for all industry-related safety trainings and other training courses.

We are proud to make a contribution to sustainable power generation and additional safety in wind energy installations with passion. And you can feel this enthusiasm in all of our projects.

43,000

个
风力领域的成功
案例

77

个国家/地区
能够快速且可靠地
获得我们的高品
质服务

2,300

家客户
正在使用我们的产
品和服务



HIGH LEVEL ACCESS SOLUTIONS



爬梯
Ladder



防坠落保护系统
Fall arrest systems



助爬器
Climb assist



爬梯配件
Ladder accessories



个人防护装备
PPE

1

2

3

4

5

爬梯

Ladder



Hailo风电系统拥有几十年的专业知识，广泛的产品和我们的配套产品始终如一地为风机塔筒中的安全和可靠的设备提供最高标准的品质保证。

高质量的横档，拥有翻边专利和特殊的防滑表面，是全球客户钟爱的爬梯质量保证。

Thanks to decades of expertise, Hailo Wind Systems has a comprehensive range of fully-developed products and system solutions. Our product portfolio always provides quality at the highest level for safe and reliable equipping of wind turbines.

High-quality rungs with patented beading and special grip profile are the guarantee of the globally appreciated ladder quality by Hailo Wind Systems.

铝制爬梯

Aluminium vertical ladder



Technische Daten

Technical data

设计方案:

竖杆: 60 x 25 mm或72 x 25 mm, 方型

横档: 带防滑纹

横档尺寸: 30 x 30 mm

横档间距: 280 mm

材质:

铝

现行标准:

根据欧洲标准EN ISO 14122-4

供货范围:

- 爬梯
- 爬梯配件和安装件需单独订购。

Design:

Rails: 60 x 25 mm or 72 x 25 mm, oblong profile

Rungs: Hailo Anti-Slide-Profile

Rung dimension: 30 x 30 mm

Rung distance: 280 mm

Material:

Aluminium

Standards:

Certified according to European standards EN ISO 14122-4

Scope:

- Ladder
- Ladder equipment and installation sets can be ordered separately



左: 横档和竖杆的连接端两次翻边铆接

Left: Double beaded rail-rung connections

右: 带有防滑纹

Right: Non-slip rungs with profiling

铝制爬梯

Aluminium vertical ladder

梯长 Ladder length mm	横档数量 No. of rungs	靠墙支架 Bracket pair	竖杆 Rail 60 x 25 mm	竖杆 Rail 72 x 25 mm		竖杆 Rail 60 x 20 x 25 mm		
			梯宽 Ladder width 520 mm	梯宽 Ladder width 470 mm	梯宽 Ladder width 490 mm	梯宽 Ladder width 470 mm	梯宽 Ladder width 490 mm	梯宽 Ladder width 520 mm
560	2	2	6110321	6111321	6110621	6083021	6083321	6083621
840	3	2	6110331	6111331	6110631	6083031	6083331	6083631
1120	4	2	6110341	6111341	6110641	6083041	6083341	6083641
1400	5	2	6110351	6111351	6110651	6083051	6083351	6083651
1680	6	2	6110361	6111361	6110661	6083061	6083361	6083661
1960	7	2	6110371	6111371	6110671	6083071	6083371	6083671
2240	8	2	6110381	6111381	6110681	6083081	6083381	6083681
2520	9	2	6110391	6111391	6110691	6083091	6083391	6083691
2800	10	2	6110401	6111401	6110701	6083101	6083401	6083701
3080	11	2	6110411	6111411	6110711	6083111	6083411	6083711
3360	12	3	6110421	6111421	6110721	6083121	6083421	6083721
3640	13	3	6110431	6111431	6110731	6083131	6083431	6083731
3920	14	3	6110441	6111441	6110741	6083141	6083441	6083741
4200	15	3	6110451	6111451	6110751	6083151	6083451	6083751
4480	16	3	6110461	6111461	6110761	6083161	6083461	6083761
4760	17	3	6110471	6111471	6110771	6083171	6083471	6083771
5040	18	3	6110481	6111481	6110781	6083181	6083481	6083781
5320	19	3	6110491	6111491	6110791	6083191	6083491	6083791
5600	20	3	6110501	6111501	6110801	6083201	6083501	6083801
5880 max.	21	3	6110511	6111511	6110811	6083211	6083511	6083811

梯子标识牌 Ladder identification label



告示 Notification

Söll、LMB、Avanti、HACA及其他防坠系统供应商可根据要求预先装配。

Other materials and dimensions are available upon request.
Söll, LMB, Avanti, HACA and other supplier of fall arrest systems are available preassembled upon request.

语言 · Languages

DE · EN · FR

产品编号 · Art. No

1025179

如客户有要求，可提供其他语言。

Further languages on request



Betreten der
Windenergieanlage durch
Unbefugte verboten!

Achtung!
Gefahr durch Eisabwurf möglich!
Abstand halten!



Das Objekt
ist
abgesperrt



防坠落保护系统

Fall arrest systems



我们与全球风能领域内的大型公司和领先的专家开展密切合作，持续开发全新的产品和技术。多年以来，通过这个战略性的开发举措，我们一直是全球风力发电行业和升降机领域内的供应商领头者。

我们的一流防坠落保护系统一直秉承“安全和可靠为先”的原则，并且非常适合于改造项目。可以倍享众多优势带来的好处，重新体验防坠落保护系统带来的全新解决方案。

In close cooperation with global players and leading specialists in the wind energy sector, we are continually investing in the development of new products and technologies. This strategic development has made us the leading provider of access technology and servicelifts for wind turbines for many years. Worldwide.

Safety and Reliability always come first in connection with our first class fall arrest systems. They are also ideally suited for retrofit projects. Benefit from the extensive advantages and reexperience fall arrest systems with our innovative new solutions.

铝制爬梯，带有预装配防坠落保护轨道Hailo H-50.2，铝阳极氧化处理

Aluminium vertical ladder with pre-assembled fall arrest rail Hailo H-50.2, anodized aluminium



技术数据

Technical data

设计方案:

竖杆: 72 x 25 mm, 方型

横档: 防滑纹

横档尺寸: 30 x 30 mm

横档间距: 280 mm

防坠落轨道: H-50.2, 无孔轨道, 便于灵活安装。

材质: 阳极处理的铝轨道

认证: 根据欧洲标准 EN ISO 14122-4

供货范围:

– 爬梯、防坠落保护轨道、横档固定件、防坠落滑

轨连接件;

– 所有部件都已安装好;

– 可单独订购爬梯配件。

Design:

Rails: 72 x 25 mm, oblong profile

Rungs: Hailo Anti-Slide-Profile

Rung dimension: 30 x 30 mm

Rung distance: 280 mm

Fall arrest rail: H-50.2, unperforated rail for flexible installation

Material:

Aluminium, anodized aluminium rail

Certification:

Certified according to European standards EN ISO 14122-4, EN 131

Scope:

- Ladder, fall arrest rail, fixations on rung, fall arrest rail connector
- All components are completely assembled
- Ladder equipment can be ordered separately

横档和竖杆的连接端两次翻

Left: Double beaded rail-rung connections

带有防滑纹

Right: Non-slip rungs with profiling



铝制爬梯, 带有预装配防坠落保护轨道Hailo H-50.2, 铝阳极氧化处理

Aluminium vertical ladder with pre-assembled fall arrest rail Hailo H-50.2, anodized aluminium

梯长 Ladder length mm	横档数量 No. of rungs	靠墙支架 Bracket pair	竖杆 Rail 72 x 25 mm	竖杆 Rail 60 x 20 x 25 mm
			梯宽 Ladder width 490 mm	梯宽 Ladder width 490 mm
560	2	2	6189021	6183321
840	3	2	6189031	6183331
1120	4	2	6189041	6183341
1400	5	2	6189051	6183351
1680	6	2	6189061	6183361
1960	7	2	6189071	6183371
2240	8	2	6189081	6183381
2520	9	2	6189091	6183391
2800	10	2	6189101	6183401
3080	11	2	6189111	6183411
3360	12	3	6189121	6183421
3640	13	3	6189131	6183431
3920	14	3	6189141	6183441
4200	15	3	6189151	6183451
4480	16	3	6189161	6183461
4760	17	3	6189171	6183471
5040	18	3	6189181	6183481
5320	19	3	6189191	6183491
5600	20	3	6189201	6183501
5880 max.	21	3	6189211	6183511

H-50.2防坠落保护系统标识牌

Identification label H-50.2 fall arrest system



告示 Notification

如客户有要求, 可提供其他材料和尺寸的爬梯。

Other materials and dimensions are available upon request.

语言 · Languages

DE · EN · FR

产品编号 · Art. No

1133759

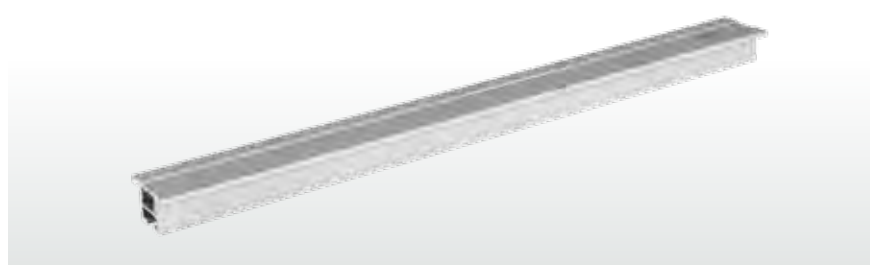
如客户有要求, 可提供其他语言。

Further languages on request

防坠落保护轨道Hailo H-50.2配件

Accessories for fall arrest rail system Hailo H-50.2

防坠落轨道H-50.2
Fall arrest rail H-50.2



材质：铝阳极氧化处理
Material: Aluminium anodized.

梯长 · Ladder length	产品编号 · Art. No
560 mm	6026021
840 mm	6026031
1120 mm	6026041
1400 mm	6026051
1680 mm	6026061
1960 mm	6026071
2800 mm	6026101
5600 mm.	6026201
5880 mm (最大) max.	6026211
可提供其他尺寸的爬梯 · Further dimensions available	

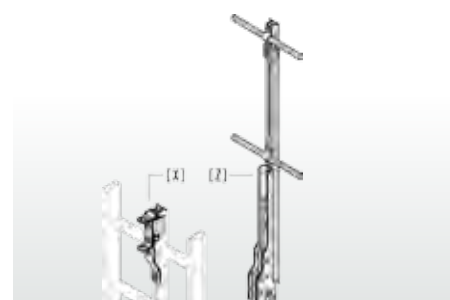
H-50.2停止装置
H-50.2 end stop



固定攀爬通道的上端和下端
To secure the upper and lower end of the climb way.

梯长 · Material	产品编号 · Art. No
Aluminium	6026221

H50.2轨道辅助装置
Plug-in device H-50.2



材质 · Material	产品编号 · Art. No
热浸锌碳钢 Hot-dip galvanized steel	6065081

H-50.2 轨道连接件
H-50.2 rail connector



用于H-50.2防坠落轨道的连接。
For the connection of H-50.2 fall arrest rails.

梯长 · Material	产品编号 · Art. No
铝 · Aluminium	6026011

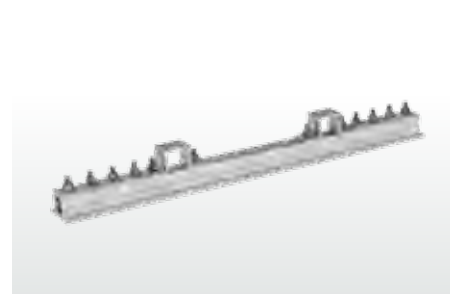
H-50.2横档与轨道固定件 (30x30mm)
Assembly set H-50.2 fixation on rung (30x30 mm)



用于将H-50.2防坠落保护滑轨固定在爬梯上。
For the fixation of H-50.2 fall arrest rails on ladders.

梯长 · Material	产品编号 · Art. No
铝 · Aluminium	6026001

H-50.2 轨道连接件 (法兰连接处)
H-50.2 rail connector flange transition



在法兰连接处很容易安装。
For easy assembly on flange transition.

梯长 · Material	产品编号 · Art. No
铝 · Aluminium	6026231

防坠落保护轨道Hailo H-50.2配件

Accessories for fall arrest rail system Hailo H-50.2

防坠落滑块 H-50.2

Fall arrester Hailo PARTNER H-50.2



H-50.2防坠落滑块按照EN353-1:2014的要求，专为H-50.2轨道设计。适用于固定的爬梯上的一款可信赖的防坠落保护装置。配备的缓冲带能有效降低坠落时的冲击力。

The Hailo PARTNER H-50.2 fall arrester is particularly designed for maximum reliability on H-50.2 fall arrest systems on vertical ladders according to EN 353-1:2014. All fall arresters are equipped with shock absorbers to minimize impact force.

信息 · Information	产品编号 Art. No
防坠落滑块 H-50.2 Fall arrester Hailo PARTNER H-50.2	6105011

包含带式下降缓冲元件的重量 (约)	1,200 kg
用户体重	50 至 136 kg
可能的倾斜角度	-3 ° 至 15 °
其他特点	导轨式防坠落保护装置最多可供 5 人同时使用
	非常容易安装在爬梯上
	可随时取下防坠止动器
	防坠止动器的滑动路段极短
	即使在涂油或脏污的导轨上也能牢牢夹紧

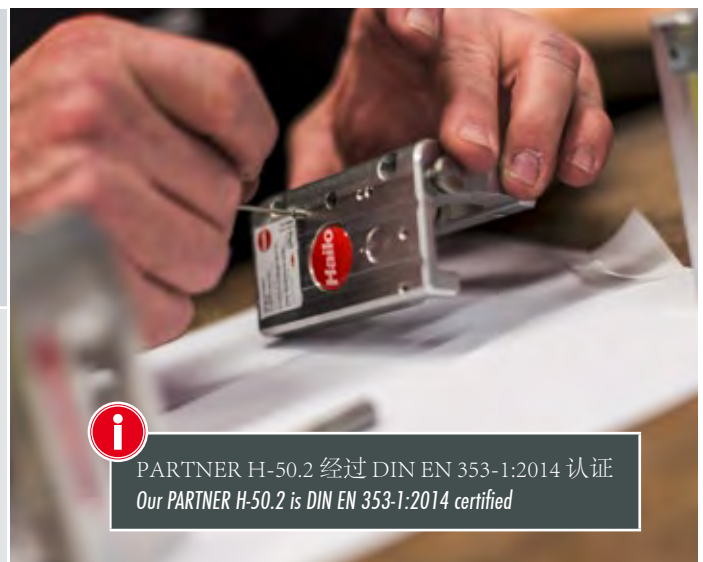
Weight incl. shock absorber (approx.)	1,200 kg
User weight	50 to 136 kg
Possible angle	-3 ° to 15 °
Features	Fall protection rail can be used simultaneously with up to 5 persons
	Very simple attachment to the ladder
	Runner detachment at any time
	Very short fall arrester slip path
	Excellent grip on rail even if dirty or oily

我们的导轨式防坠落保护装置，保证最高的安全性和可靠性：

- ✓ 高品质的铝制挤压型材
- ✓ 质量全球保证
- ✓ 连续的无网格凹槽型材
- ✓ 极好的耐用性
- ✓ 快速安装
- ✓ 长久的安全性

Our approved rail-guided fall arrest system for maximum safety and reliability:

- ✓ High-quality aluminium extruded profile
- ✓ Worldwide appreciated
- ✓ Continuous, frame-less grooved design
- ✓ Excellent durability
- ✓ Fast installation
- ✓ Long-term safety



PARTNER H-50.2 经过 DIN EN 353-1:2014 认证
Our PARTNER H-50.2 is DIN EN 353-1:2014 certified

HWS-FAS 8 防坠落保护装置

Fall arrest system FAS 8



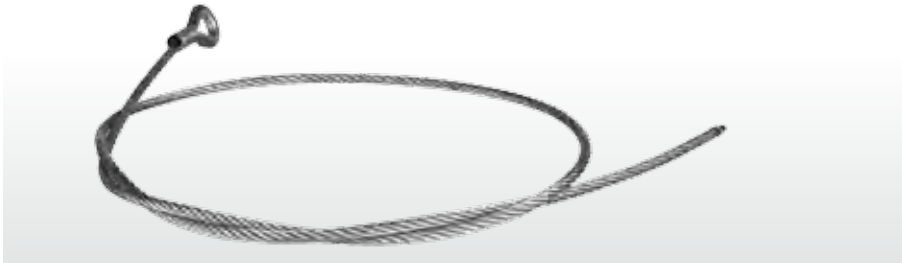
我们视产品质量和安全为第一要务，在全球范围内为客户提供最贴切的服务。

Quality, reliability and safety always come first with all of our products and services. Always made to measure for our customers - worldwide.

防坠落系统H-8配件

Accessories for fall arrest system FAS 8

FAS 8防坠钢丝绳
FAS 8 fall arrest wire rope



直径8 mm, 包括钢丝绳马眼。有不同长度可供选择。因为钢芯的加强, 变形量较小。
Diameter 8 mm, incl. cable eye stiffener. Available in different lengths. Less strain due to steel reinforcement.

材质 Material	产品编号 · Art. No
铁镀锌 · Galvanized steel	依据长度而定 · Upon request
不锈钢 · Stainless steel	依据长度而定 · Upon request

FAS 8用于中心装配, 包括预张紧控制
FAS 8 rope attachment bottom



用于中央装配。包括预张力控制。
For central assembly. Including pretension control.

材质 Material	产品编号 · Art. No
热浸镀锌钢丝绳 Hot-dip galvanized steel	6065101

HWS - FAS 8防坠系统识别标签
Identification label HWS-FAS 8 fall arrest system



FAS 8钢丝绳导向装置
FAS 8 rope guiding

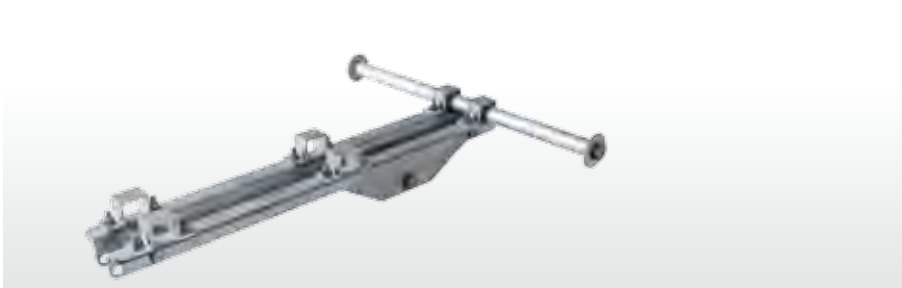


包括横档固定件和固定材料。
Incl. rung adapter and fixing material.

语言 · Languages	产品编号 · Art. No
DE · EN · FR	1122479
如客户有要求, 可提供其他语言。 Further languages on request	

材质 Material	产品编号 · Art. No
热浸镀锌钢材/尼龙 · Stahl feuerverzinkt / Polyamid · Hot-dip galvanized steel / Polyamide	6012231
不锈钢/尼龙 · Edelstahl / Polyamid · Stainless steel / Polyamide	6017171

FAS 8绳索连接顶部
FAS 8 rope attachment top



爬梯类型 · Ladder type	材质 Material	产品编号 · Art. No
470 mm, 铝 · 470 mm, Aluminium	热浸镀锌钢丝绳 · Hot-dip galvanized steel	6065371
490 mm, 铝 · 490 mm, Aluminium	热浸镀锌钢丝绳 · Hot-dip galvanized steel	6065281
520 mm, 铝 · 520 mm, Aluminium	热浸镀锌钢丝绳 · Hot-dip galvanized steel	6065381

防坠落系统H-8配件

Accessories for fall arrest system FAS 8

HWS SKC EVO防坠落滑块

Fall arrester HWS SKC EVO



HWS SKC EVO防坠落滑块按照EN353-1:2014的要求，专为防坠落系统H-8设计。适用于固定的爬梯上的一款可信赖的防坠落保护装置。配备的缓冲带能有效降低坠落时的冲击力。

The HWS SKC EVO fall arrester is particularly designed for maximum reliability on vertical ladders with HWS-FAS 8 according to EN 353-1:2014. All fall arresters are equipped with shock absorbers to minimize impact force.

信息 · Information	产品编号 Art. No
HWS SKC EVO防坠落滑块 Fall arrester HWS SKC EVO	6013101

包含带式下降缓冲元件的重量(约)	0.500 kg
用户体重	50 至 140 kg
可能的倾斜角度	-15 ° 至 15 °
其他特点	钢索式防坠落保护装置最多可供 5 人同时使用
	非常容易安装在爬梯上
	可随时取下防坠止动器
	防坠止动器的滑动路段极短
	保养和维修花费极低

Weight incl. shock absorber (approx.)	0,500 kg
User weight	50 to 140 kg
Possible angle	-15 ° to 15 °
Features	Fall protection rope can be used simultaneously with up to 5 persons
	Very simple attachment to the ladder
	Runner detachment at any time
	Very good running characteristics and easy operation
	Minimal maintenance and repairs

我们的钢索式防坠落保护装置，性价比高 并有许多独特之处：

- ✓ 不受爬梯和踏棍宽度限制
- ✓ 安装极简便快捷
- ✓ 可购买到 8 mm 钢索或不锈钢索
- ✓ 钢丝内衬，减小钢索伸长率完美适于翻新
- ✓ 实用的指示器指出准确的钢索张力

Our new cost-efficient rope-guided fall arrest system with many benefits:

- ✓ Can be used regardless of ladder and rung width
- ✓ Very easy, fast installation
- ✓ Available with 8 mm steel or stainless steel rope
- ✓ Steel insert for reduced rope elongation
- ✓ Ideal for retrofits
- ✓ Practical indicator for correct rope tension



HWS SKC EVO 经过 DIN EN 353-1:2014 认证，
不与我们的 H-8 防坠落保护装置兼容
Our HWS SKC EVO is DIN EN 353-1:2014 certified and not compatible with our H-8 fall arrest system

助爬器

Climb assist



E-Lift是一个便携式助爬系统，攀爬人员能最为高效和安全地攀爬风机。

攀爬时，E-Lift能减轻使用者80%的身体负重，让攀爬更为简便。E-Lift能根据不同的用户自动调整速度。此外，E-Lift系统还能节约多达50%的攀爬时间，显著减少风机的停机时间。

The E-Lift is a portable climb assist system which allows to climb a wind turbine in a most efficient and safe way.

While climbing, the E-Lift will assist up to 80 % of the users bodyweight which will make climbing as easy as possible. The speed will adjust automatically to the individual user. This system will allow to reduce climbing time up to 50 % which will reduce turbine downtimes significantly.

助爬器

Climb assist

E-Lift: 高效经济

E-Lift: Efficient and profitable

E-LIFT

- 攀爬时速度提高50%（节省约150小时/年）；
 - 节省80%的体力；
 - 明显减少每个风场的总投资（每个风场/维护团队只需1台）；
 - 改善了工作条件；
 - 高蓄能电池可供攀爬大约1500米；
 - 非常适合风塔改装项目；
 - 适合移动使用和固定使用；
 - 减少使用磨损件，极易进行维护*
- * 操作和维护时，请参阅使用手册。

- Up to 50 % faster ascent and descent (approx. 150 h/year)
- Up to 80 % less physical efforts
- Significant reduction of total investment per wind turbine (only one device per park/service team required)
- Significant improvement of working conditions
- Approximately 1,500 m ascent and descent per battery charge
- Ideal for retrofit projects
- Suitable for mobile and stationary use
- Easy maintenance due to the reduction of wear parts *

* Information on operation and maintenance can be found in the operating instructions.



50%

攀爬速度更快

Faster Climbing

Hailo风电系统研发的E-Lift是一款可拆卸的电机驱动助爬器，专为上下攀爬梯子而设计。凭借其独特的功能和E-Lift助爬器可以节省高达50%的攀爬时间，性价比高且优化了风机内的工作条件。

The E-Lift from Hailo Wind Systems is a portable, motorised climb assist, which is specially designed for ascents and descents on ladders. Thanks to its unique functionality and state-of-the-art technology, the E-Lift creates time savings of up to 50 %, ensures maximum profitability and optimal working conditions in wind turbines.

80%

身体负重更少

Less physical burden

简单操作即可将高品质的E-Lift助爬器安装在固定的绳索上。可根据使用者的体重调整攀爬速度，确保更为高效和舒适。由于蓄电池尺寸合适，方便携带到风场的任何一个使用地点。因此不论风场大小，该助爬器均可提供理想的解决方案。设置的多种安全功能，确保助爬器在任何风场都具有安全可靠的使用性能。

The high-quality E-Lift is installed on the stationary belt system with just a single step. The speed is adapted individually to the user weight, ensuring greater efficiency and comfort. Thanks to its generously dimensioned battery, it can be flexibly brought to any location and it is thus the ideal solution for wind farms of any size. Thanks to numerous safety functions, the E-Lift provides reliable and safe use - in every wind turbine.

助爬器

Climb assist



助爬器技术参数

Technical data

设计方案:

助爬器自重11.5 kg

使用者体重50 至 130 kg

最高可节省上下攀爬时间50 %

助力使用者体重的80 %

速度最大为 24米/分

使用温度0° C 至 50° C (电池温度大于 0° C时, 助爬器可以在 - 10° C环境下使用) 电池蓄能约 1500 米 (上下攀爬10次) 蓄电池锂电池, 11.6安,

充电时间: 5小时, 充电1000次之 后蓄能量为全新的80 %
爬梯倾斜度: 最大0-3° 或每5米5°

安全告示:

非人员运送设备

非防坠落保护装置

标准: 机械指令2006/42/EG, ISO 9001: 2008 EMC 指令
2014/30/EU, CE符合性

Design:

Dead weight: 11.5 kg

User weight: 50 - 130 kg

Time saving for ascent & descent: Max. 50 %

Assistance: 80 % of user weight

Speed: Max. 24 m/min

Use temperature: 0 °C - 50 °C (-10 °C if battery > 0 °C)

Range: Approx. 1,500 m (10 ascents and descents)

Li-ion battery: 11.6 Ah, charging time: 5 h, max. power after 1,000 charges: 80 %

Ladder tendency requirements: Max. 0 - 3 ° or 5 ° per 5 m

Safety notice:

Not a device for passenger transport.

No fall protection/PPE.

Standards:

Machinery Directive 2006/42/EG, ISO 9001:2008 EMC Directive 2014/30/EU, CE conformity



告示

Notification

根据客户的要求, 可提供不同长度的缆绳。

Various rope lengths are available upon request.

爬梯配件

Ladder accessories



风电市场，风云变幻。拥有一个能提供高质量产品和优质服务的可靠合作伙伴显得尤其重要。因此我们一直把质量，可靠性和安全性放在首位。现在如此，未来亦如此。我们同样可以提供定制的配件如：爬梯连接件，横档修复件，锚点等等。

There are few sectors anywhere in the world that have as much change as the wind energy sector. Reliable partners with high-quality products and top services are therefore essential. Quality, reliability and safety will therefore always come first for us - as well in the future.

Ladder connectors, Rung repair kits, Anchorage points and much more: An extensive portfolio of customized ladder accessories is available for our high-quality ladder systems as well.

爬梯配件

Ladder accessories

爬梯支撑件，标准件

Ladder bracket, standard



配合竖杆弧括夹或长螺杆使用。
竖杆弧括夹或长螺杆需单独订购！
数量：2件。

For fixation with rail bracket or thread-rods.

Rail brackets or thread-rods to be ordered separately.

Quantity: 2.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6098201

爬梯支撑件，一端分岔

Ladder bracket, with cross-stay



配合竖杆弧括夹或长螺杆使用。
竖杆弧括夹或长螺杆需单独订购！
数量：2件

For fixation with rail bracket or thread-rods.

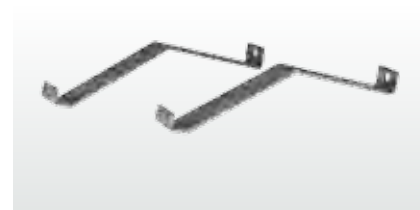
Rail brackets or thread-rods to be ordered separately.

Quantity: 2.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6098191

爬梯支撑件，标准件

Ladder bracket, standard



配合横档固定件使用。
横档固定件需单独订购！
数量：2件

For fixation with rung adapter.

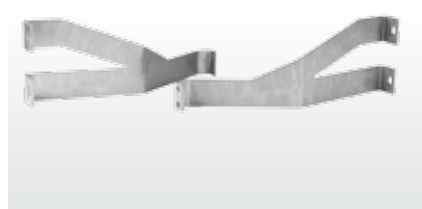
Rung adapters to be ordered separately.

Quantity: 2.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6055911

爬梯支撑件，Y型，一端分岔

Ladder bracket, with cross-stay



配合横档固定件使用。
横档固定件需单独订购！
数量：2件

For fixation with rung adapter.

Rung adapters to be ordered separately.

Quantity: 2.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6055921

爬梯短支撑件，用于线缆桥架

Ladder bracket short for cable trays



用于固定电缆线管道。
横档固定件需单独订购！

For fixation of cable trays.

Rung adapter to be ordered separately.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6008761

爬梯短支撑件

Ladder bracket short



配合横档固定件使用。
横档固定件需单独订购！

For fixation with rung adapter.

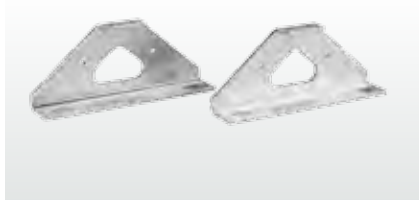
Rung adapter to be ordered separately.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6008771

爬梯配件

Ladder accessories

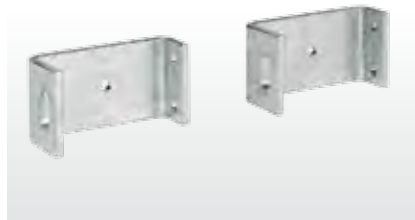
爬梯支撑件，双侧固定，对称
Ladder bracket, dual fixation, symmetrical



包括横档固定件和塔筒端固定件，热浸锌碳钢。数量：2件
Rung adapter and tower-sided fixing material included, hotdip galvanized steel. Quantity: 2.

长度 · Length	产品编号 · Art. No
150 mm	6023501
180 mm	6023511
210 mm	6023521
240 mm	6023531
270 mm	6023541
300 mm	6023551

爬梯支撑件，单侧固定，对称
Ladder bracket, single fixation, symmetrical



包括横档固定件和塔筒端固定件，热浸锌碳钢。数量：2件
Rung adapter and tower-sided fixing material included, hotdip galvanized steel. Quantity: 2.

Länge · Length	产品编号 · Art. No
150 mm	6023581
180 mm	6023591
210 mm	6023601
240 mm	6023611
270 mm	6023621
300 mm	6023631

穿过横档的固定杆
Fixation through rung



供货范围：长螺杆，自锁螺母，塑料盖帽，垫片
Scope: Thread-rod, locking nuts, washers, plastic bushings.

爬梯宽度 · Ladder widthwidth	产品编号 · Art. No
420 mm	6006371
490 mm	6006171
520 mm	6006661

竖杆弧扩夹
Rail bracket



固定材料需单独订购！
Fixing material to be ordered separately.

材质 Rail	材质 Material	产品编号 Art. No
72 x 25 mm	Aluminium · Aluminium	6004591
72 x 25 mm	Edelstahl · Stainless steel	1137299
72 x 25 mm	Stahl feuerverzinkt · Hot-dip galvanized steel	1137129
60 x 25 mm	Aluminium · Aluminium	1152979
60 x 25 mm	Stahl feuerverzinkt · Hot-dip galvanized steel	1137339
40 x 20 mm	Edelstahl · Stainless steel	1137319
40 x 20 mm	Stahl feuerverzinkt · Hot-dip galvanized steel	1137329
60 x 20 x 25 mm	Aluminium · Aluminium	1152979

竖杆弧扩夹固定件
Fixing material for rail brackets



用于将弧扩夹固定到竖杆上
数量：2件
For fixation on the ladder bracket.
Quantity: 2.

材质 Material	产品编号 Art. No
热浸锌钢材 · Hot-dip galvanized steel	6004871

爬梯配件

Ladder accessories

横档固定件
Rung adapter



横档 30 x 30 mm。数量：2件。
For rung profile 30 x 30 mm. Quantity: 2.

材质 Material	产品编号 Art. No
塑料/热浸镀锌钢材 Polyamide / Hot-dip galvanized steel	6008981

横档固定件“势能平衡”
Rung adapter "potential equalization"



横档 30 x 30 mm。
For rung profile 30 x 30 mm.

材质 Material	产品编号 Art. No
塑料/铝/热浸镀锌钢材 Polyamide / Aluminium / Hot-dip galvanized steel	6008881

可调整高度的接地固定件（竖杆）
Ground fixation on rail, adjustable



滑轨 72 x 25 mm。数量：2件
For rail 72 x 25 mm. Quantity: 2.

材质 Material	产品编号 Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6004891

可调整高度的接地固定件（横档）
Ground fixation on rung, adjustable



适用于爬梯导向的升降电梯
Suitable in connection with ladder guided service lifts.

材质 · Material	产品编号 · Art. No
热浸镀锌钢材 Hot-dip galvanized steel	6009021

内连接件(塑料)
Internal ladder-connector



竖杆尺寸72 x 25mm，数量：2件
For rail size 72 x 25 mm, Quantity: 2.

材质 · Material	产品编号 · Art. No
塑料 · Polyamide	6006331

内连接件(铝制)
Internal ladder-connector



竖杆尺寸60 x 25 mm，数量：2件
For rail size 60 x 25 mm. Quantity: 2.

材质 · Material	产品编号 · Art. No
铝 · Aluminium	6004531

轨道连接件57,1 x 17,1 x 1,2
Rail-connector 57,1 x 17,1 x 1,2



适用于导轨尺寸60 x 20 x 25 mm。
数量：2
For rail size 60 x 20 x 25 mm. Quantity: 2.

材质 · Material	产品编号 · Art. No
铝 · Aluminium	1120299

竖杆连接件
Section rail connector



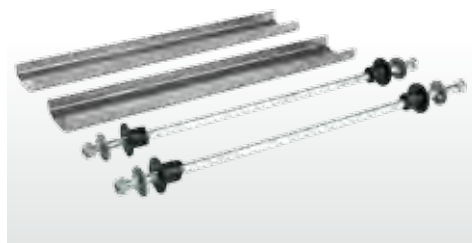
适合72*25mm和60*25mm竖杆，在爬梯导向的升降电梯中用于爬梯部件的修理更换，更换一节梯子，需4个竖杆连接件
For 72 x 25 mm and 60 x 25 mm rails. For repair exchange of ladders. For exchange of one ladder 4 section rail connectors are needed.

材质 · Material	产品编号 · Art. No
不锈钢 · Stainless steel	6008821

爬梯配件

Ladder accessories

梯子外部连接件 External ladder connector

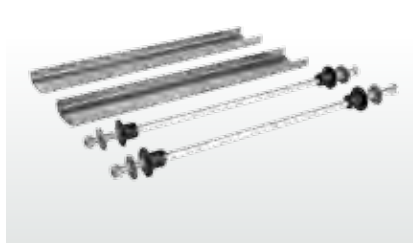


竖杆尺寸72*25mm，不能用于爬梯导向的升降电梯，供货范围：C型件，长螺杆，垫片，自锁螺母，塑料盖帽

For rail size 72 x 25 mm. Unsuitable in connection with ladder guided service lifts. Scope: C-Profiles, thread-rods, washers, locking-nuts, plastic bushings.

爬梯宽度 Ladder width	产品编号 Art. No
420 mm	6006381
470 mm	6006361
490 mm	6006391

梯子外部连接件 External ladder connector



竖杆尺寸60*25mm，不能用于爬梯导向的升降电梯，供货范围：C型件，长螺杆，垫片，自锁螺母，塑料盖帽

For rail size 60 x 25 mm. Unsuitable in connection with ladder guided service lifts. Scope: C-Profiles, thread-rods, washers, locking-nuts, plastic bushings.

爬梯宽度 Ladder width	产品编号 Art. No
520 mm	6006491

爬梯外连接件 External ladder connector



适用于尺寸为60 x 20 x 25 mm的竖杆。不能用于爬梯导向的升降电梯上。整套包括：C型件，长螺杆，垫片，自锁螺母，塑料盖帽。

For rail size 60 x 20 x 25 mm. Unsuitable in connection with ladder guided service lifts. Scope: C-Profiles, thread-rods, washers, locking-nuts, plastic bushings.

爬梯宽度 Ladder width	产品编号 Art. No
470 mm	6006501

休息平台SP 305x140 U型接头 Resting platform SP 305x140 U-connection

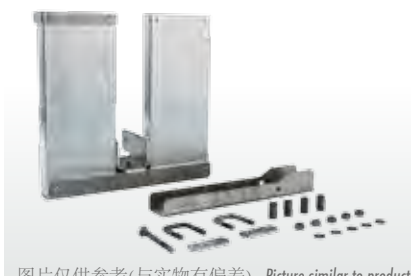


用于无防坠系统、防坠落钢丝绳系统（如HWS-FAS 8）和防坠落导轨（如H-50；HACA钢轨道）的梯子

For use on ladders without fall arrest systems, rope-guided fall arrest systems (e. g. HWS-FAS 8) and perforated fall arrest rails (e. g. H-50; HACA steel rail)

材质 Material	产品编号 Art. No
铝 / 热浸锌碳钢 Aluminium / Hot-dip galvanized steel	6065421

休息平台SP 305x140 I型接头 Resting platform SP 305x140 I-connection



图片仅供参考(与实物有偏差) · Picture similar to product

用于带有特制防坠系统（HACA VarioRail）的梯子

For use on ladders with purpose-built fall arrest systems (HACA VarioRail)

材质 Material	产品编号 Art. No
铝 / 热浸锌碳钢 Aluminium / Hot-dip galvanized steel	6065431

休息平台SP 305x140 T型接头 Resting platform SP 305x140 T-connection



用于带有未穿孔防坠导轨（如H-50.2；Avanti）的梯子上

For use on ladders with unperforated fall arrest rails (e. g. H-50.2; Avanti)

材质 Material	产品编号 Art. No
铝 / 热浸锌碳钢 Aluminium / Hot-dip galvanized steel	6065441

爬梯配件

Ladder accessories

端头盖帽
End cap for rail



防止手部受伤
数量：1件
Endcap to prevent injuries.
Quantity: 1.

竖杆·滑 轨Rail	材质 Material	产品编号 Art. No
72 x 25 mm	塑料·Plastic	1077879
60 x 20 x 25 mm	塑料·Plastic	1121119

端头盖帽
Ladder foot for rail



防止手部受伤
数量：2件
Ladder cap to prevent injuries.
Quantity: 1.

竖杆·滑 轨Rail	材质 Material	产品编号 Art. No
60 x 25 mm	塑料·Plastic	1085219
72 x 25 mm	塑料·Plastic	1124639

更换爬梯打孔模板，铝制
Drilling template for ladder exchange, Aluminium



便于更换受损爬梯部件
For an easy exchange of damaged ladder elements.

竖杆·滑 轨Rail	材质 Material	产品编号 Art. No
60 x 25 mm	铝·Aluminium	6067831
72 x 25 mm	铝·Aluminium	6067841
60 x 20 x 25 mm	铝·Aluminium	6067831

梯子更换用打孔模板，包括工具
Drilling template for ladder exchange incl. tools



便于更换损坏梯子部件。套件包括
打孔模板、夹具和钻头（10 mm和
17 mm）
For an easy exchange of damaged ladder elements. Set
including drilling template, clamp and drills (10 mm
and 17 mm)

竖杆·滑 轨Rail	材质 Material	产品编号 Art. No
60 x 25 mm	铝·Aluminium	6065301
72 x 25 mm	铝·Aluminium	6065291
60 x 20 x 25 mm	铝·Aluminium	6065301

Hailo铝梯上的锚点
Anchorage point on aluminium ladder



根据EN 795和ANSI Z359 (EN 795:2012
CEN/TS 16415 ANSI Z359.1、OSHA
1910.66、OSHA 1926.502)。特殊设计，
适合大型和小型登山扣。镀锌钢/
涂层。中央装配需要梯子另一侧上的
导轨。
According to EN 795 and ANSI Z359 (EN 795:2012
CEN/TS 16415 ANSI Z359.1, OSHA 1910.66, OSHA 1926.502).
Special design, fits for small and big carabiner hooks.
Galvanized steel / coated. Central assembly requires rail on
the opposite side of the ladder.

梯宽 Ladder width	产品编号 Art. No
490 mm, 两侧位置装配 for central assembly	6034751
490 mm, 两侧位置装配 for lateral assembly	6034761

锚点
Anchorage point



G遵循EN795和ANSI Z359
(EN795:2012 CEN/TS 16415
ANSI Z359.1, OSHA 1910.66,
OSHA1926.502)。特殊设计，用于陆
地和海上风机的小型 and 大型钩环
镀锌钢/镀层
According to EN 795 und ANSI Z359 (EN 795:2012
CEN/TS 16415 ANSI Z359.1, OSHA 1910.66, OSHA
1926.502). Special design, fits for small and big
carabiner hooks onshore and offshore.
Galvanized steel / coated.

信息 Information	产品编号 Art. No
海上风电·Onshore „C4-long“	6034481
海上风电·Offshore „C5-M long“	6034501

爬梯配件

Ladder accessories

横档维修套件的插入装置
Plug-in device for rung repair set



便于装配横档维修工具包。
For easy assembly of rung repair kits.

材质 · Material	产品编号 · Art. No
铝 · Aluminium	1119509

锚固点280
Anchorage point 280



根据EN 795、EN 50308、CEN/TS 16415、ANSI Z359.18 - 2017，批准用于最多2人，最大载重22kN。
According to EN 795, EN 50308, CEN/TS 16415, ANSI Z359.18-2017, approved for 2 person max, 22 kN maximum payload.

宽度 · Width	材质 · Material	产品编号 · Art. No
470 mm	铝 · Aluminium	6065261
490 mm	铝 · Aluminium	6065271
520 mm	铝 · Aluminium	6065281

梯子标识牌
Ladder identification label



语言 · Languages	材质 · Material	产品编号 · Art. No
DE · EN · FR	塑料 · Plastic	1025179

如客户有要求，可提供其他语言。
Further languages on request

标记锚固点280
Label Anchorage point 280



语言 · Languages	材质 · Material	产品编号 · Art. No
DE · EN	塑料 · Plastic	1121529

可提供所有通用语言
Available in all common languages

爬梯配件

Ladder accessories

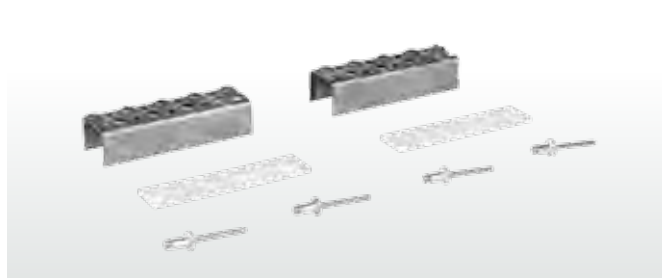
横档修复件 Rung enhancement



适用于损坏横档。
For use on damaged rungs.

梯宽 · Ladder width	材质 · Material	产品编号 · Art. No
420 mm	铝阳极氧化处理/不锈钢 Aluminium anodized / Stainless steel	6011071
420 mm	铝阳极氧化处理/热浸锌钢材 Aluminium anodized / Hot-dip galvanized steel	6012621
470 mm	铝阳极氧化处理/不锈钢 Aluminium anodized / Stainless steel	6011061
470 mm	铝阳极氧化处理/热浸锌钢材 Aluminium anodized / Hot-dip galvanized steel	6011051
490 mm	铝阳极氧化处理/不锈钢 Aluminium anodized / Stainless steel	6011081
490 mm	铝阳极氧化处理/热浸锌钢材 Aluminium anodized / Hot-dip galvanized steel	6012631
520 mm	铝阳极氧化处理/不锈钢 Aluminium anodized / Stainless steel	6011091
520 mm	铝阳极氧化处理/热浸锌钢材 Aluminium anodized / Hot-dip galvanized steel	6012611

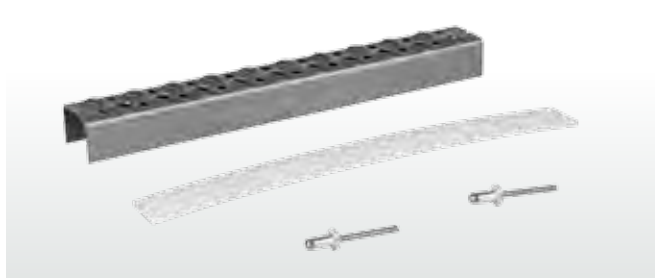
配防坠落轨道的爬梯横档保护装置 Rung protection set aluminium ladder with rail



梯宽 420 mm
For ladder width 420 mm.

Material	产品编号 · Art. No
铝/塑料 · Aluminium / Plastic	6012641
可提供其他尺寸的产品 · Further dimensions available	

铝梯横档保护装置 Rung protection set aluminium ladder



梯宽最少 420mm
For ladder width 420 mm minimum.

Material	产品编号 · Art. No
铝/塑料 · Aluminium / Plastic	6012671
可提供其他尺寸的产品 · Further dimensions available	

个人防护装置

PPE



多年来，我们的培训中心-GWO认证安全与救援学院（S. A. R. A），一直在现实的工作环境中成功进行了跨部门培训课程。防止坠落的个人安全保护设备必须满足高要求，从而起到保护人身安全的作用。因此，我们为您提供高质量的个人防护装置的使用培训。

我们从多个制造商处提供广泛的个人防护装置产品组合，如有需要，请随时联系我们的培训中心。

Our training center, the GWO-certified Safety And Rescue Academy (S.A.R.A.), has been successfully carrying out cross-sector training courses in a real working environment for many years. Personal safety equipment, preventing falls, has to fulfill high requirements since it protects from death. Therefore we provide you high quality trainings for PPE usage.

We are offering an extensive portfolio of PPE from many manufacturers. Please do not hesitate to contact our Training center:

Eva Voth, Customer Service S.A.R.A.
Email: evoth@hailo-windsystems.com
Phone: +49 (0) 2773/82 1250





我们的PPE和救援设备服务 OUR PPE AND RESCUE EQUIPMENT SERVICES

- ✓ 购买PPE和救援设备
Purchasing of PPE and rescue equipment
- ✓ 在现场或我们的培训中心进行PPE咨询和测试
PPE consulting and testing on-site or in our training center
- ✓ 定期和单次检查设备
Regular and single check of your equipment
- ✓ 符合DGUV法规的PPE专家
Expert for PPE according to DGUV regulation
- ✓ 工作、安全和救援（风力涡轮机、高货架仓库和有限空间）
Working, securing and rescue (wind turbines, high-bay warehouses and confined spaces)



海铨机电设备个人防护装备的优势： YOUR HAILO WIND SYSTEMS PPE BENEFITS:



定制产品
CUSTOMIZED PRODUCTS



最高质量标准
HIGH QUALITY STANDARDS



可靠测试
RELIABLE TESTINGS



专业培训
PROFESSIONAL TRAINING



一体化解决方案
ALL-IN-ONE SOLUTIONS

个人防护装备

给你全方位的安全呵护！

在所有可能发生潜在碰撞事故风险的工作领域都应该使用带有防坠落功能（个人防护装备）的全身式安全背带。在选择合适的个人防护装备时必须谨慎考虑，因为有些产品仅作坠落防护使用，有些产品为符合EN 358标准的集成式支撑安全背带，有些产品为符合EN 813标准的座椅式安全背带。全身式安全背带产品的主要不同之处在于其扣眼功能的不同：

全身式防坠落连接扣眼：

全身式防坠落连接扣眼主要适用于在动态下落场景下（自由落体）起到支撑保护作用。全身式防坠落连接扣眼由通过制动安全测试的PSA材料制成，拥有最好的质量和安全性。

攀登保护扣眼：

由于攀登保护扣眼自身跌落保护高度有限，所以常常与登山装备（绳/导轨）结合使用。另外，由于人体重心在下落时处于不受控状态，故该扣眼不太适合单独用作防坠落连接扣眼使用。

支撑扣眼：

支撑扣眼特别用于作为支撑使用，绝不能作为防坠落连接扣眼使用。

绳降扣眼：

绳降扣眼的功能与支撑扣眼相似，不适用于在动态下落场景使用。

PERSONAL PROTECTIVE EQUIPMENT

Safety on every level!

Whenever work is carried out at dangerous heights, a suitable safety harness combined with a high quality fall arrest system must be worn (PPE; personal protective equipment). When choosing the right personal protective equipment, it must first be decided whether it is for fall protection only, or whether a combination harness with an integrated positioning belt as per EN 358 or sit harness as per EN 813 is required. What matters most are the various properties of the connecting hardware (D-rings) on a safety harness:

Fall arrest rings:

Fall arrest rings are designed to absorb dynamic fall loads (free fall) and are also permissible for restraint. Fall arrest rings are the most important PPE connecting hardware in terms of safety and must therefore be of the highest reliability and quality.

Fall restraint rings:

Fall restraint rings are only suitable for safety when working at a limited height, in conjunction with fixed (rope- or rail-based) climbing systems. Due to the unfavourable position of the body's centre of gravity, fall restraint rings cannot provide sole protection in the way a fall arrest ring would.

Positioning rings:

Positioning rings are only suitable for holding in position and must never be used as a fall arrester.

Descending rings:

Descending rings are similar to positioning rings and are also not suitable for arresting falls.



Hailo Wind Systems CE安全背带

Hailo Wind Systems Wind Harness CE



产品规格:

- 背部和胸部区域有连接眼A
- 有2个连接眼用于工作定位
- 肩部区域有防坠环
- 增强型胸部和腹部防坠环
- 增强型材料和接缝s
- 胸部区域有两个前环，用于工具
- 腰带有2个横向定位环和舒适背部保护板（2019年更新）
- 腰带和裆带有快卸锁扣
- 长度可调的肩带、腰带和裆带
- 最长使用期限：5年r

应用范围: :

防坠、下降、定位、攀爬，救援

大小:

S至XXL（不同腰带长度）

安全认证:

CE 0194、EN361:202（全身式安全带），EN358:199（包含工作定位带的安全带），如ASK 8系绳索索（EN 358）第1360001184条

安全承重:

适用于59到140 kg的使用者

维护细节:

需半年维护一次，维护由专业人士进行。

Design:

- Fall arrest ring at shoulder region
- Enhanced breast and stomach fall arrest ring
- Enhanced materials and seams
- 2 front loops at breast region
- Hip belt with 2 lateral positioning rings and comfortable back brace
- Quick release fasteners at hip and leg belts
- Length adjustable shoulder belts, hip belt and leg belts
- Maximum period of use: 5 years

Applications:

Fall arrest, Descending, Positioning, Climbing, Rescue

Sizes:

S to XXL

Certified by:

CE 0194, EN361:202 (Full Body Harness), EN358:199 (Harness incorporating a work positioning belt), like ASK 8 tether lanyard (EN 358), Art. No. 1360001184

Safety note:

For users from 59 to 100 kg

Maintenance note:

Yearly maintenance by trained professional



信息 · Information	产品编号 · Art. No
HWS CE安全背带 S-M · HWS Wind Harness CE S-M	1360001003
HWS CE安全背带 L-XXL · HWS Wind Harness CE L-XXL	1360001004

Hailo Wind Systems ANSI安全背带

Hailo Wind Systems Wind Harness ANSI



产品规格:

- 背部和胸部区域有连接眼A
- 有2个连接眼用于工作定位
- 肩部区域有防坠环
- 增强型胸部防坠环
- 胸部区域有2个前环
- 胸部区域有两个前环，用于工具
- 腰带有2个横向定位环和舒适背部保护板
- 腰带和裆带有快卸锁扣
- 长度可调的肩带、腰带和裆带
- 最长使用期限：5年

应用范围: :

防坠、下降、定位、攀爬，救援

大小:

S至XXL (不同腰带长度)

安全认证:

ANSI Z359.11-2014, EN361:202, EN358:199

安全承重:

适用于59到140 kg的使用者

ANSI的最大承重: 6英尺自由下落时为130-310 LBS

维护细节:

经培训人员要求一年维护两次

Design:

- Fall arrest ring at shoulder region
- Enhanced breast fall arrest ring
- 2 front loops at breast region
- Hip belt with 2 lateral positioning rings and comfortable back brace
- Quick release fasteners at hip and leg belts
- Length adjustable shoulder belts, hip belt and leg belts
- Maximum period of use: 5 years

Applications:

Fall arrest, Descending, Positioning, Climbing, Rescue

Sizes:

S to XXL

Certified by:

ANSI Z359.11-2014, EN361:202, EN358:199

Safety note:

For users from 59 to 140 kg

Maintenance note:

Yearly maintenance by trained professional

信息 · Information	产品编号 · Art. No
HWS ANSI安全背带 S-M HWS Wind Harness ANSI S-M	1360001001
HWS ANSI安全背带 L-XXL HWS Wind Harness ANSI L-XXL	1360001002

防坠落全身式安全背带/安全绳 AX 60 (EN 361 / EN 358)

AX 60 safety harness / positioning belt (EN 361 / EN 358)



规格:

- 位于肩部的连接孔眼
- 位于胸前的2个连接搭环
- 位于腰带侧面的2个防坠落保护器孔眼和舒适的背部支撑
- 安全背带与腿带上的快速插入扣
- 肩带，腿带和腰带长度可调
- 最大承载：140公斤
- 最长使用寿命：10年

应用领域:

- 防坠落
- 绳降
- 支撑
- 攀登
- 救援

Design:

- Dorsal fall arrest ring
- 2 sternal fall arrest loops
- Body belt with 2 lateral positioning rings and comfortable back support
- Quick-release buckles on body belt and leg straps
- Adjustable shoulder straps, body belt and leg straps
- For users up to 140 kg
- Maximum service life: 10 years

Applications:

- Fall arrest
- Descending
- Positioning
- Climbing
- Rescue



信息 · Information

防坠落全身式安全背带产品AX 60
Safety harness AX 60

产品编号 · Art. No

1360010601

防坠落全身式安全背带/安全系绳AX 45 CB (EN 361 / EN 358)AX 45

CB safety harness / positioning belt (EN 361 / EN 358)



规格:

- 位于肩部的连接孔眼
- 位于胸前中部的连接孔眼
- 位于腰带侧面的2个防坠落保护器孔眼
- 安全腰带与腿带上的快速插入扣
- 坚固耐用的高质量带支撑背板
- 肩带、腿带和腰带长度可根据自身需求自由调节
- **最大承载: 140公斤**
- 最长使用寿命: 10年

应用领域:

- 防坠落
- 绳降
- 支撑
- 攀登
- 救援

Design:

- Dorsal fall arrest ring
- Sternal fall arrest ring
- 2 large lateral positioning rings
- Click fasteners on body belt and leg straps
- Sturdy, high-quality back support made of padded webbing
- Wide range of individual length settings
- **For users up to 140 kg**
- Maximum service life: 10 years

Applications:

- Fall arrest
- Descending
- Positioning
- Climbing
- Rescue



信息 · Information

防坠落全身式安全背带产品 AX 45 CB
Safety harness AX 45 CB

产品编号 · Art. No

1360010460





安全背带收纳包

Storage Bag Wind Harness



信息:

这款“安全背带收纳包”对于保存和防坠落个人防护装备的运输是最理想的保护袋，也可以应用于防护装备的附属装置。

应用范围:

防坠落个人防护装备以及附属装备的收纳保护袋

大小:

10升容量

安全承重:

最大承重量: 5kg

Information:

Our storage bag wind harness is the perfect product to protect and transport your Personal Protective Equipment (PPE). In addition it is also ideal to carry your PPE equipment and much more.

Applications:

Storage bag for PPE and PPE equipment

Size:

10 liter capacity

Safety note:

Maximum load: 5 kg

信息 · Information

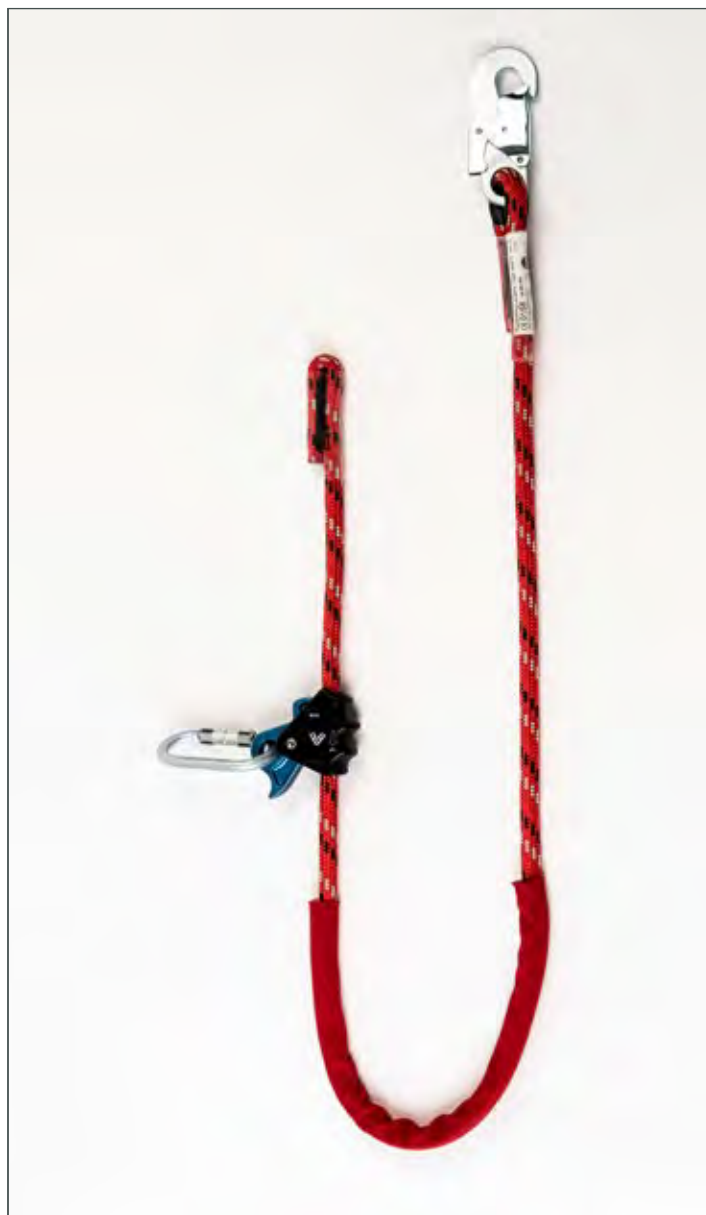
安全背带收纳包 · Storage Bag Wind Harness

产品编号 · Art. No

1360001008

定位绳 ASK 8 (EN 358)

ASK 8 tether lanyard (EN 358)



信息:

定位绳产品ASK 8已通过EN 361 / EN 358体系认证。

该产品配有缓冲带和绳索伸缩器，其长度可达1.5米。绳子（型号SK 14）直径为14毫米，并配有高质量的环形扣。

规格:

- 配有自锁型单手环形扣（型号：FS 51）的14毫米安全绳索
- 配备不锈钢椭圆形环形扣和绳索伸缩器（型号：ASK 8），绳索长度可自动调节
- 配备0.5米长度的保护绳
- 最大长度：1.5米
- 最大承载：140公斤

应用领域:

- 工作场所定位

Information:

The Hailo Wind Systems ASK 8 lanyard is certified according to EN 358.

The tether is 1.5 m long and has a shock absorber and a tie-back. The SK 14 rope is 14 mm thick and is fitted with reliable, easy-to-use carabiners.

Design:

- 14 mm kernmantle rope with FS 51 self-locking one-hand carabiner
- Adjustable length with ASK 8 tie-back and oval steel carabiner
- Including rope protector (0.5 m)
- Maximum length: 1.5 m
- For users up to 140 kg
- Maximum service life: 10 years

Applications:

- Work positioning

信息 · Information

定位绳 ASK 8, 1,5 m · Tether lanyard ASK 8, 1,5 m

产品编号 · Art. No

1360001184

单挂钩安全绳索（27毫米，符合EN 354 /355标准）

Industrial strap lanyard (27 mm) with shock absorber (EN 354/355)



信息:

海铨机电公司单挂钩安全绳索已通过EN 354 /355体系认证。

该单挂钩安全绳索，长度为1.5米。单挂钩安全绳索一端连接高质量的不锈钢环形扣（型号：FS 90），另一端连接易操作的高质量不锈钢环形扣（型号：FS 51）。

规格: :

- 配有缓冲带装置和绳带的单头连接系绳（27毫米）
- 带缓冲带的绳索一端为不锈钢单手环形扣（型号FS 51）
- 绳索另一端为不锈钢环形扣（型号FS 90）
- 水平和垂直方向上均可使用！
- 最大长度：1.5米
- **最大承载：140公斤**
- 最长使用寿命：10年

应用领域:

- 风力设备环境使用
- 售后和维护工作
- 塔楼、电线杆攀爬场景等
- 建筑工地
- 脚手架
- 消防与民防

Information:

The Hailo Wind Systems lanyard with shock absorber is certified according to EN 354 and EN 355.

The lanyard is 1.5 m long and equipped with a shock absorber. For attachment, there is one rope end with a sturdy FS 90 steel pipe hook, as well as a handy FS 51 steel pipe hook on the shock absorber.

Design:

- Single-strand lanyard with shock absorber and straps (27 mm)
- FS 51 steel one-hand carabiner on the shock absorber
- 1 rope end with FS 90 steel pipe hook
- Approved for vertical and horizontal use
- Maximum length: 1.5 m
- For users up to 140 kg
- Maximum service life: 10 years

Applications:

- Working in wind turbines
- Maintenance and servicing
- First ascent of towers, masts, etc.
- Steel construction
- Scaffolding
- Fire brigades and civil protection

信息 · Information

单挂钩安全绳索，1.5米
Industrial strap lanyard, 1,5 m

产品编号 · Art. No

1360001124

双挂钩安全绳索（27毫米，符合EN 354 /355标准）

Y-strap lanyard with shock absorber (EN 354 / EN 355) and 27 mm strap



信息:

海铨机电公司双挂钩安全绳索已通过EN 354 /355体系认证。

该双挂钩安全绳索，长度为1.5米。带缓冲带的绳索一端连接易操作的不锈钢环形扣（型号：FS 51），绳索另一端的二头连接便捷的高质量不锈钢环形扣（型号：FS 90）。

规格:

- 配有缓冲带装置和绳带的双头连接系绳（27毫米）
- 缓冲带一端为不锈钢单手环形扣（型号FS 51）
- 绳索另一端的二头为不锈钢环形扣（型号FS 90）
- 水平和垂直方向上均可使用！
- 最大长度：1.5米
- **最大承载：140公斤**
- 最长使用寿命：10年

应用领域:

- 风力设备环境使用
- 售后和维护工作
- 塔楼、电线杆攀爬场景等
- 建筑工地
- 脚手架
- 消防与民防

Information:

The Hailo Wind Systems Y-strap lanyard with shock absorber is certified according to EN 354 and EN 355.

The Y-strap is 1.5 m long and equipped with a shock absorber. For attachment, there are 2 rope ends with the sturdy FS 90 steel pipe hook as well as a shock absorber with a handy FS 51 steel pipe hook.

Design:

- Two-stranded lanyard with shock absorber and 2 straps (27 mm)
- FS 51 steel one-hand carabiner on the shock absorber
- 2 rope ends with FS 90 steel pipe hook
- Approved for vertical and horizontal use
- Maximum length: 1.5 m
- For users up to 140 kg
- Maximum service life: 10 years

Applications:

- Working in wind turbines
- Maintenance and servicing
- First ascent of towers, masts, etc.
- Steel construction
- Scaffolding
- Fire brigades and civil protection
- Fire brigades and civil protection

信息 · Information

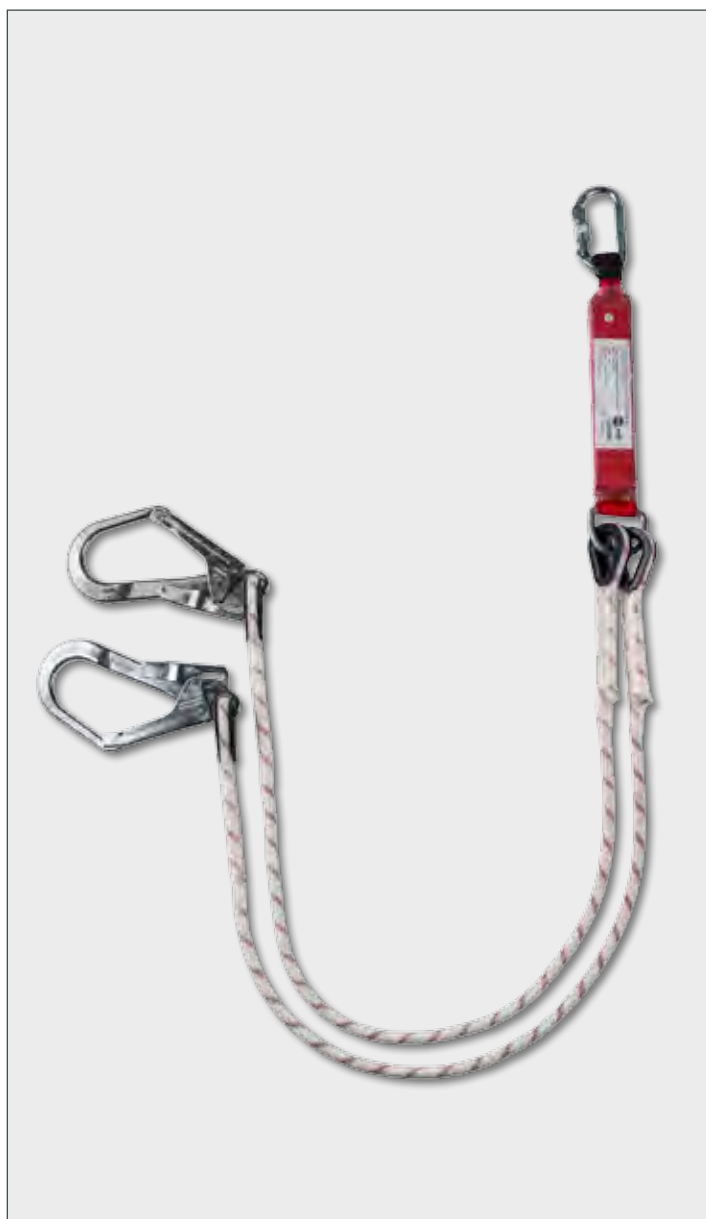
双挂钩安全绳索，1.5米 · Y-strap lanyard 1,5 m

产品编号 · Art. No

1360001126

双挂钩安全绳 (EN 355 and CNB/P/11.063:2014)

Y Lanyard Wind with shock absorber according to (EN 355 and CNB/P/11.063:2014)



信息:

根据PPE法规 (EU) 2016/425附件II中的EN 355:2002 和CNB/P/11.063:2014, 海锐机电设备带缓冲带的Y形带系索认证为第III类产品 双腿式吸能系索, 由吸能装置和两个绳索系索节段组成。系索的一端是脚手架挂钩, 另一端是钩环。

规格:

- 带缓冲带和两条绳索 (12 mm)
- 缓冲带连接两个铁挂钩
- 绳子末端连接两个管钩
- 可以垂直和水平使用
- 最大长度: 1.8 m
- 适用于不超过100 kg的使用者
- 最长使用寿命: 5年

应用领域:

- 在风力发电机中工作
- 维护和检修
- 首次登上塔架、桁架等
- 钢结构
- 脚手架
- 消防队和群众保护

Information:

The Hailo Wind Systems Y-strap lanyard with shock absorber is certified according to EN 355:2002 and CNB/P/11.063:2014 in Annex II of the PPE regulation (EU) 2016/425 as a Category III product. Twin legged energy absorbing lanyard consisting of an energy absorber and two rope lanyard sections. Lanyard terminates with a scaffold hook at one end and a carabiner at the other end.

Design:

- Two-stranded lanyard with shock absorber and 2 Ropes (12 mm)
- FS 51 steel one-hand carabiner on the shock absorber
- 2 rope ends with FS 90 steel pipe hook
- Approved for vertical and horizontal use
- Maximum length: 1.8 m
- For users up to 100 kg
- Maximum service life: 5 years

Applications:

- Working in wind turbines
- Maintenance and servicing
- First ascent of towers, masts, etc.
- Steel construction
- Scaffolding
- Fire brigades and civil protection

信息 · Information

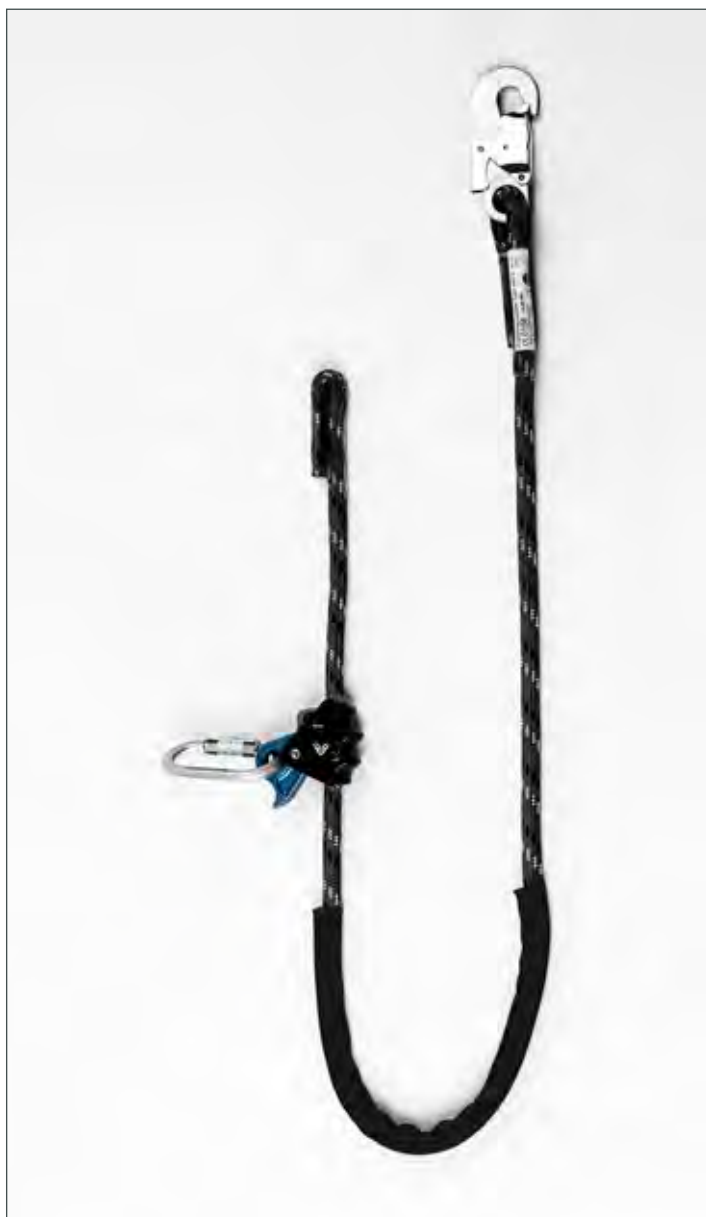
双挂钩安全绳 1.8m
Y Lanyard Wind 1,8 m

产品编号 · Art. No

1360001005

符合EN358标准的定位绳 (1.8米长)

Positioning Rope Wind 1.8m according to (EN 358)



信息:

Hailo Wind Systems定位绳已通过EN358体系认证。定位绳长度1.8米，配有缓冲带和绳索伸缩器。绳子（型号：SK12）直径为12毫米，并配有可靠易操作的O型绳索扣。

规格:

- 设计理念
- 配有自索型单手环形扣（型号：FS51）的12毫米安全绳索
- 配备不锈钢椭圆形环形扣和绳索伸缩器
- 配备0.5米长的保护绳
- 最大长度：1.8米
- 最大承重：100kg
- 最长使用寿命：5年

应用领域:

- 工作场所定位

Information:

The Hailo Wind Systems Positioning Rope Wind 1.8m is certified according to EN 358. The tether is 1.5 m long and has a shock absorber and a tie-back. The SK 12 rope is 12 mm thick and is fitted with reliable, easy-to-use carabiners.

Design:

- 12 mm Core sheath rope with FS 51 self-locking one-hand carabiner
- Adjustable length with Aluminium Rope Grap and oval steel carabiner
- Including rope protector (0.5 m)
- Maximum length: 1.8 m
- For users up to 100 kg
- Maximum service life: 5 years

Applications:

- Work positioning

信息 · Information

符合EN358标准的定位绳 (1.8米长)
Positioning Rope Wind 1.8m

产品编号 · Art. No

1360001006

逃生救援装置设备 ABS 3 a WH

ABS 3 a WH rope descender with rescue lift



信息 · Information

逃生救援装置ABS 3 a WH
ABS 3 a WH descender and rescue device

产品编号 · Art. No

1360003587

信息:

在使用个人防坠落保护系统产品前，需事先拟定好一个符合法律规定的全球性救援计划。面对危及生命的危险，需要获得快速有效的救援来达到人员疏散的目的。

因此，救援人员应该接受过相应的培训，并且在紧急情况下能够正确使用绳降和救援设备。在对救援设备进行评估和筛选时，不仅需要考虑紧急救援的场景，还必须能够保障救援演习的实施。

我们的绳降和救援设备正是在这种背景下产生的。我们的产品已通过当前国际标准认证（EN 341:2011 Klasse 1A; 1496:2006; ANSI/ASSE 359.4-2013），可靠耐用。

规格:

- 逃生救援装置设备
- 符合标准: EN 341:2011 1(A); EN 1496:2006/A; ANSI/ASSE Z359.4-2013
- 下降额定负载: 140公斤
- 上升额定负载: 140公斤
- 最大绳降高度: 200米
- 最大绳降时速: 1.5米/秒
- 设备集成了升降过程中的防坠落制动器
- 带有椭圆形不锈钢环扣的滑轮悬挂装置符合EN 362标准。
- 滚珠轴承滑轮装置
- 可切换的止回器
- 额定负载为140公斤的5600绳降装置
- 承载: 最多1人

绳子:

- 用于绳降部分的绳子: KMS 105 EN 1891:1998 A
- 环扣部分的绳子: KMS 105
- 直径: 10.5毫米
- 重量: 2.1公斤

Information:

Laws around the world require that a rescue plan be developed before personal fall protection systems are used. To combat potential life-threatening hazards, effective fall protection as well as rapid rescue and evacuation are required.

To make sure everything runs smoothly in the event of an emergency, this has to be practised using suitable descent and rescue equipment. The choice of appropriate equipment must therefore not only take account of a one-off emergency rescue, but also safe performance of regular rescue drills.

This is why our descent and rescue system has been specially developed, tested and approved in accordance with the latest international standards (EN 341:2011 Class 1A, 1496:2006, ANSI/ASSE 359.4-2013).

Design:

- Rope descender with rescue lift
- EN 341:2011 1(A); EN 1496:2006/A; ANSI/ASSE Z359.4-2013
- Rated load: 140 kg
- Rated lifting load: 140 kg
- Maximum descent height: 200 m
- Maximum descent speed: 1.5 m/s
- Shock absorber integrated in lifting function
- Swivel suspension with steel oval screw carabiner as per EN 362
- Ball-bearing swivel joint
- Switchable backstop
- 5600 metres of descent with a rated load of 140 kg
- Tested for 1 person

Rope:

- Descending rope: KMS 105 EN 1891:1998 A
- Kernmantle rope: KMS 105
- Diameter: 10.5 mm
- Weight: 2.1 kg

防坠落系统的注意事项提示

Information on fall arrest systems

防坠落系统设备的使用安全须知

在与其他个人防护产品共同使用时，请确保它们能够与本公司产品完全兼容。同时，在产品使用时需严格遵

照说明书内容进行操作。防坠落设备的防坠落绳带部分必须满足DIN EN361标准，且必须配

有缓冲带要件。安全绳必须始终与安全背带的连接扣眼处于连接状态。根据EN358标准的要求，安全背带上现有的连接扣眼仅能作为支撑目的使用，否则有跌落的可能。除非安全背带的腰带前部配有一个攀登保护的扣眼，在此情况下可以按照EN353-1标准与一个固定的攀爬装置进行连接固定。在每个工作位置上方都应该有个锚固点，且该位置越高越

好，以避免在坠落时出现晃动，同时能够将自由坠落距离限制到最短。安全绳与锚固点之间必须时刻保持紧绷状态，避免绳索松弛。用户在使用时需密切关注工作地点的空间位置，以避免与地面或其他障碍物相撞。连接装置距离障碍物的最低要求为6.75米，防坠落设备距离障碍物的最低要求为4米。根据DIN EN 354, DIN EN 355和DIN EN 362的标准要求，一个连接系绳装置（包含缓冲带和连接要件（连接扣眼））的总长度不能超过2米。同时，不允许将连接装置的长度延长，或与其它连接装置进行组合连接。如果安全背带需与合适的固定连接装置进行连接使用，需确保安全绳与之兼容，且组合后的最大长度不超过安全规定范围。

运输/仓储/维护

产品在运输过程中应放置在一个合适的袋子或箱子中。产品应在常温下贮存，放置在干燥，通风，阴凉处，并避免阳光直射。产品材料主要为聚酯，其贮存温度应控制在-20°C至60°C之间。可以使用温水和中性洗涤剂进行清洗，清洗后请使用干净的水对洗涤剂残留物进行冲洗。纺织品成分的干燥必须以自然的方式进行。产品绝对不能靠近火源或其他热源。对产品进行消毒措施时需获得厂家指导。贮存与清洗产品需严格遵照说明书内容执行。

检查/使用寿命期限

设备每隔12个月须定期由制造商或专业人员进行检查！各产品的使用寿命期限可参阅各产品的详细参数。

Safety instructions for the use of fall arrest systems

When using other personal fall protection equipment, make sure that it is fully compatible. This means you must observe the instructions for using the other products. In a fall arrest system, only one safety harness as per DIN EN 361 may be used and a shock-absorbing element must always be present. The safety rope must always be fastened to a fall arrest ring on the safety harness. Any positioning rings on a safety harness as per EN 358 may only be used for holding in position. It must be impossible for a fall to be caused by this. Any safety harness fitted with a front fall restraint ring on the body belt may only be used in conjunction with a stationary climbing system with a fixed guide as per EN 353-1. The anchor point should be located above the working position and should be as high as possible so as to avoid pendulum movements in the event of a fall and to minimise the free falling distance. The safety rope to the anchor point should always be kept taut. Ropes should not be allowed to slacken. Always pay attention to the free space required at the workplace below the user to avoid hitting the ground or any other obstacle. In the most unfavourable conditions, this space is 6.75 m for lanyards and 4.0 m for free-moving fall arresters. The length of a lanyard as per DIN EN 354 including shock absorber as per DIN EN 355 and fasteners (carabiners) as per DIN EN 362 may be up to 2.0 m. An extension or combination with other lanyards is not permitted. When using safety harnesses with a permanently attached lanyard, it is essential to ensure that they are compatible with other objects and that the safety ropes are not more than the maximum permissible length.

Transport / storage / care

When transporting the equipment, it should be kept in a suitable bag or case. The equipment should be stored in spaces that are dry, airy, shady and not too hot, out of direct sunlight, at normal room temperature. Because the equipment is mainly made of polyester, it should not be exposed to temperatures above 60 °C or below -20 °C. It can be cleaned with warm water and a neutral detergent. All detergent must be completely rinsed off with clean water. Textile components must always be allowed to dry naturally, and never close to fire or other heat sources. Disinfection may only be carried out after consulting the manufacturer. The storage and cleaning recommendations must be strictly observed!

Inspections / service life

The equipment must be inspected at least every 12 months by a qualified person or by the manufacturer! The maximum service life is stated in the product information.





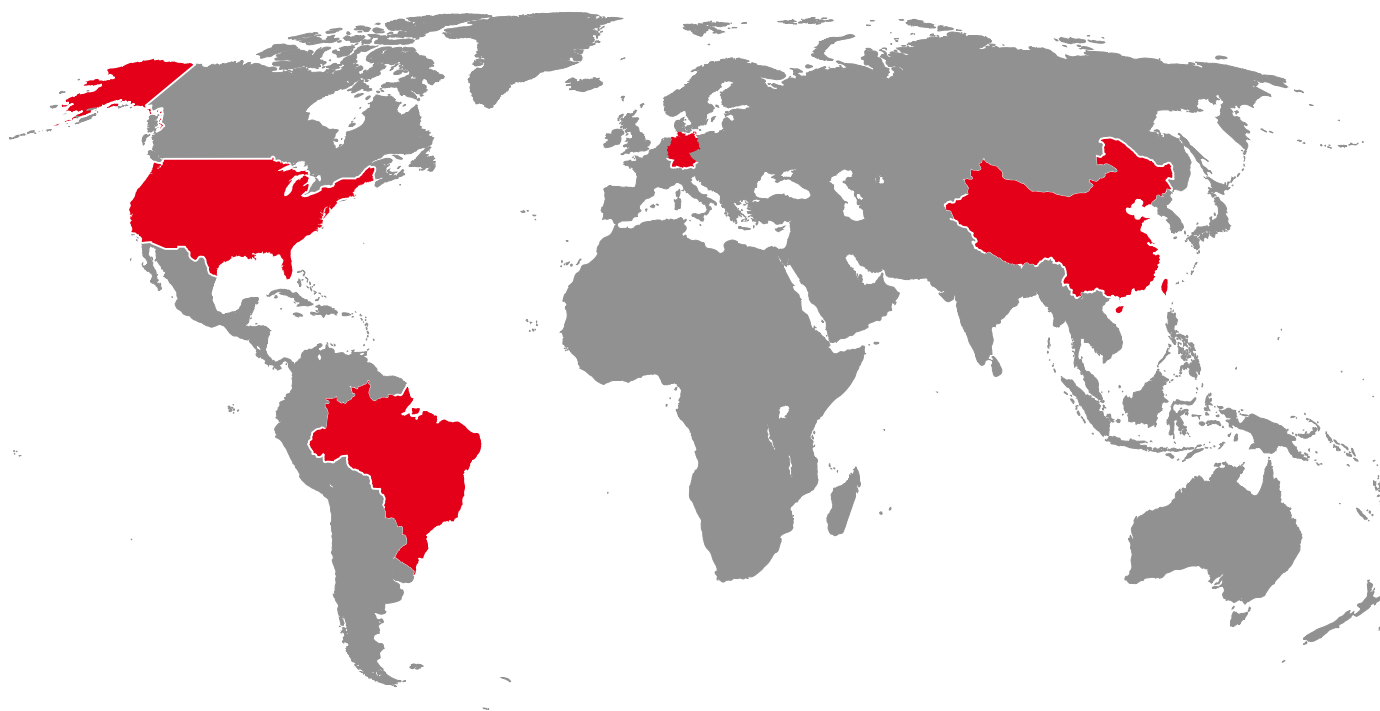
海铨机电

给你全方位的安全呵护

HAILO WIND SYSTEMS

Safety on every level!

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