

LONAKO®
Since 2002



为海上人命安全保驾护航

Escorting the Safety of Life at Sea



OUR MISSION

Escorting the Safety of Life at Sea

WWW.LONAKO.COM



公司介绍

朗纳科成立于2002年，位于美丽的中国厦门。我们始终专注于自主研发、设计和制造救生安防产品，肩负“为海上人命安全保驾护航”的使命，积极推动行业的技术创新和产品的更新迭代，持续为海上人命安全提供最可靠的保障。

LONAKO核心技术及应用成果包括：

- 2008年成功研发180°发光角度的LED专利技术，应用于LONAKO的救生衣灯、圈灯、筏灯和艇灯等系列产品，推动了救生信号灯从灯泡向LED光源切换的行业变革；
- 2012年成功将太阳能可充电技术应用于LONAKO的太阳能示位灯和航行安全灯系列产品，为小船只提供了无需外接电源的航行信号解决方案；
- 2015年成功研发水启动电池专利技术，应用于LONAKO的航空救生定位灯，全方位提升了该类产品的启动和有效工作时长，并获得CAAC、FAA和EASA的批准；
- 2020年成功研发了复合材料踏板专利技术，应用于LONAKO登乘梯和引水员梯，解决了木质绳梯易腐蚀和笨重的痛点，并为踏板消耗的森林资源提供了有效的替代方案；

朗纳科随着产品类别的拓展不断提高质量管理标准，严格履行ISO9001、ISO/IEC80079-34和CCAR-21质量控制和保障体系的要求，随时接受DNV、TUV、BV、RINA、CCS等船用产品认证机构和CAAC、FAA、EASA等民航认证机构的监督，确保“品质超越顾客和法规要求”。

我们的使命：

为海上人命安全保驾护航

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COMPANY PROFILE

LONAKO®
Since 2002

Established in 2002 in scenic Xiamen, China, LONAKO specializes in the independent research, design, and manufacture of lifesaving and security products. Guided by our mission to “Escort the Safety of Life at Sea”, our pursuit of technological innovation and product advancement has driven significant industry transformations, delivering utmost reliability and assurance for maritime safety.

LONAKO's core technologies and notable achievements include:

- In 2008, we achieved a technology patent for a LED with a 180°illumination angle. This development was integrated into lifejacket lights, lifebuoy lights, liferaft lights & lifeboat lights, driving the industry's transition from bulb to efficient LED light sources.
- In 2012, we successfully incorporated solar rechargeable technology into our solar-powered positioning lights & navigation safety lights, providing navigation signal solutions for small vessels without the need for external power sources.
- In 2015, our patented water-activated battery technology significantly enhanced activation efficiency and operational lifespan of our aviation survival locator lights, which have obtained approvals from CAAC, FAA & EASA.
- In 2020, our successful development and patent of a composite material step technology led to the launch of LONAKO embarkation & pilot ladders. This innovation addresses corrosion and weight issues of traditional wooden ladders while contributing to forest conservation.

As LONAKO expands its product offerings, we remain committed to uphold impeccable quality control and management standards, strictly adhering to ISO9001, ISO/IEC80079-34, and CCAR-21. With a steadfast commitment to exceeding customer expectations and regulatory standards, we welcome supervision and validation from esteemed marine product certification agencies such as DNV, TUV, BV, RINA, CCS, and civil aviation agencies such as CAAC, FAA & EASA.

OUR MISSION

Escorting the Safety of Life at Sea

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ALKALINE BATTERY LIFEJACKET LIGHTS

碱性电池救生衣灯



CCS

USCG
Approval



LNK-SL1 &W

- 获得MED,USCG 和CCS 认证
 - 自动水触启动
 - LED灯头外延设计，39厘米长连接线
 - 光强大于1.2cd的工作时长超过26小时（室温）
 - MED, USCG and CCS approved
 - Auto water-activated
 - Extended lamp design, 39cm wire length
 - More than 26h at >1.2cd (room temp.)
- LNK-SL1: 单功能 Flashing type
LNK-SL1W: 多功能 Flashing -Steady -SOS -Off



LNK-SL2 &W

- 获得MED, USCG 和 CCS 认证
 - 自动水触启动
 - 水触开关外延设计，64厘米长连接线
 - 光强大于1.2cd的工作时长超过26小时（室温）
 - MED, USCG and CCS approved
 - Auto water-activated
 - Extended water sensors design, 64cm wire length
 - More than 26h at >1.2cd (room temp.)
- LNK-SL2: 单功能 Flashing type
LNK-SL2W: 多功能 Flashing -Steady -SOS -Off

ALKALINE BATTERY LIFEJACKET LIGHTS



CCS

USCG
Approval

碱性电池救生衣灯



LNK-SL3 &W

- 获得MED,USCG 和CCS 认证
 - 自动水触启动
 - 光强大于1.2cd的工作时长超过26小时（室温）
 - 5年有效期（自生产之日起）
 - MED, USCG and CCS approved
 - Auto water-activated
 - More than 26h at >1.2cd (room temp.)
 - 5 years shelf life
-
- LNK-SL3: 单功能 Flashing type
 - LNK-SL3W: 多功能 Flashing -Steady -SOS -Off



LNK-SL5 &W

- 获得MED, USCG 和 CCS 认证
 - 手动开关控制
 - 光强大于1.2cd的工作时长超过26小时（室温）
 - 适合休闲娱乐及工作救生衣
 - MED, USCG and CCS approved
 - Manual switch type
 - More than 26h at >1.2cd (room temp.)
 - Suitable for leisure market
-
- LNK-SL5: 单功能 Flashing type
 - LNK-SL5W: 多功能 Flashing -Steady -SOS -Off

LITHIUM BATTERY LIFEJACKET LIGHT

锂电池救生衣灯



LNK-LJ-03A1&W



自动水触启动
AUTO water-activated



EC-MED Approved
by RINA



可漂浮设计
Self-floatable design

USCG
Approval

USCG Category
161.112

- 锂电池设计
- 光强大于1.5cd的工作时长超过28小时（室温）
- 符合SOLAS IMO MSC81(70)、IEC 60945:2002和ISO 24408 : 2005标准
- 5年有效期
- 含安装卡扣
- LNK-LJ-03A1: 单功能款
- LNK-LJ-03A1W: 多功能款
- Lithium battery
- More than 28h at >1.5cd (room temp.)
- MeetSOLAS IMO MSC81(70), IEC 60945:2002, ISO 24408 : 2005
- 5 years shelf life
- Mounting clip included
- LNK-LJ-03A1: Flashing type
- LNK-LJ-03A1W: Flashing -Steady -SOS -Off

ATEX LIFEJACKET LIGHT

防爆救生衣灯



LNK-LSL-3A



DNV防爆产品认证
ATEX by DNV



自动水触启动
AUTO water-activated



EC-MED Approved
by RINA



可漂浮设计
Self-floatable design

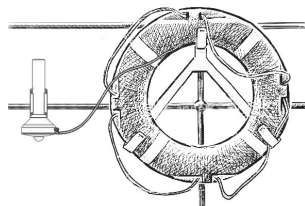
- 锂电池设计
- 光强>0.75cd的工作时长超过10小时
- 防爆标识等级 “EX II 2G Ex ia IIC T3 Gb” 适用于 1区和 2区, 最高表面温度为T3 200°C
- 5年有效期 (自生产之日起)
- 含安装卡扣
- 闪光型
- Lithium battery
- More than 10h at >0.75cd
- Ex marking “EX II 2G Ex ia IIC T3 Gb” suitable for hazardous Zone 1 and 2, T3 200°C max. surface temperature
- 5 years shelf life
- Mounting clip included
- Flashing type

LIFEBUOY LIGHTS

救生圈灯



USCG
Approval



LNK-LB-01B

- 获得MED, USCG认证
- 锂电池, 闪光型
- 光强大于2.0cd的工作时长超过24小时 (室温)
- 水触、重力双开关, 防止误启动
- 直接拉脱, 实测76米水面跌落

- MED, USCG approved
- Lithium battery, flashing type
- More than 24h at >2.0cd (room temp.)
- Water sensors and gravity dual activation
- One step launch, 76 meters drop height



LNK-LB-02B

- 获得MED, USCG认证
- 可更换碱性电池, 闪光型
- 光强大于2.0cd的工作时长超过24小时 (室温)
- 小巧紧凑, 重力开关
- 直接拉脱, 实测76米水面跌落

- MED, USCG approved
- Replaceable alkaline batteries, flashing type
- More than 24h at >2.0cd (room temp.)
- Compact size, gravity activation
- One step launch, 76 meters drop height



LNK-LB-03B

INTRINSICALLY SAFE

ATEX LIFEBUOY LIGHT

防爆救生圈灯

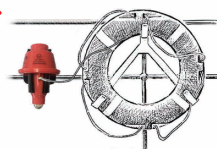


USCG
Approval

Product Features 产品特点

- ATEX 和 IEC-Ex 双重防爆认证
- MED 和 USCG 船用产品认证
- 防爆标识等级 “EX II 1G Ex ia op is IIC T4 Ga” 适用于 0区, 1区 和 2区, 最高表面温度为T4 135°C
- 光强 $\geq 2.0\text{cd}$ 下的工作时长超过20小时
- 水触和重力双开关, 防误启动
- 坚固耐用, 实测通过76米高水面跌落
- 直接从安装卡扣中随救生圈拉脱
- 随配304不锈钢的通用安装适配器
- ATEX and IEC-Ex approved by TUV-Germany
- MED and USCG marine product approval
- Ex marking “EX II 1G Ex ia op is IIC T4 Ga” suitable for hazardous Zone 0,1 and 2, T4 135°C max. surface temperature
- More than 20h at $> 2.0\text{cd}$
- Water sensors and gravity dual activation
- Robust, drop height to water up to 76 meters
- Pull out from bracket in one single action
- Universal SS304 mounting adaptor included

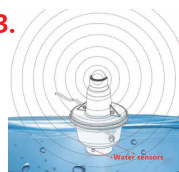
1.



2.



3.



LIFERAFT LIGHTS

救生筏灯



USCG
Approval



LNK-LR-01A

- 获得MED, USCG 认证
- 外灯光强大于4.3cd的工作时长超过18小时 (-30℃)
- 最紧凑的外灯尺寸设计
- 内灯集合于电池主体

- MED, USCG approved
- External light: More than 18h at >4.3cd (-30℃)
- Most compact external lamp size
- Interior light integrated with battery body



LNK-LR-02C

- 获得MED, USCG认证
- 外灯光强大于4.3cd的工作时长超过18小时 (-30℃)
- 大容量锂电池，性能更优越
- 结实耐用, 完全防水

- MED, USCG approved
- External light: More than 18h at >4.3cd (-30℃)
- Large capacity lithium battery, high performance
- Robust and waterproof

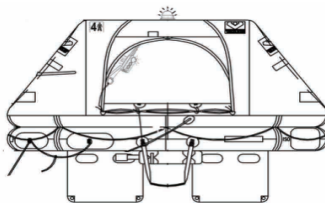
LIFERAFT LIGHTS

救生筏灯



USCG
Approval

CCS



LNK-LR-03A

- 获得MED, USCG 和CCS 认证
 - 外灯光强大于4.3cd的工作时长超过15小时 (-30°C)
 - 紧凑小巧, 内灯集合于电池主体
 - 带主体安装卡扣
- MED, USCG and CCS approved
 - External light: More than 15h at >4.3cd (-30°C)
 - Compact, interior light integrated with battery body
 - Mounting clip included



LNK-LR-05A

- 获得MED, USCG认证
 - 外灯光强大于4.3cd的工作时长超过15小时 (-30°C)
 - 最紧凑的外灯尺寸设计
 - 带主体安装卡扣
- MED, USCG approved
 - External light: More than 15h at >4.3cd (-30°C)
 - Most compact external lamp size
 - Mounting clip included

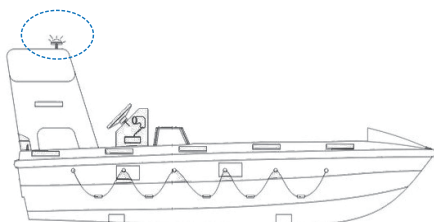
LED LIFEBOAT LIGHTS

LED救生艇灯(外灯)



USCG
Approval

CCS



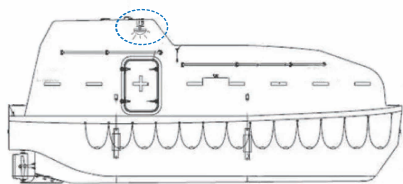
- 频闪示位灯（外灯）
- 获得MED,USCG 和CCS 认证
- 直流12V / 24V, 最低20cd光强 (法规要求4.3cd)
- 高效节能的多颗LED 并联光源
- 耐-52℃ 极地低温
- IP67防水
- 独特的反光带设计
- Exterior indicator light
- MED, USCG and CCS approved
- DC 12V / 24V, Minimum 20cd light intensity
- High efficiency and energy-saving multi-LEDs
- -52℃ Polar low temperature endurance
- IP67 waterproof
- Unique reflective SOLAS tape

LED LIFEBOAT LIGHTS

LED救生艇灯(内灯)



USCG
Approval



LNK-LBL2

- 舱顶照明灯(内灯)
- 获得MED,USCG 和CCS 认证
- 直流12V / 24V, 最低7cd光强 (法规要求0.5cd)
- 高效节能的多颗LED 并联光源
- 耐-52°C 极地低温
- IP67防水
- Interior light for illumination
- MED, USCG and CCS approved
- DC 12V / 24V, Minimum 7cd light intensity
- High efficiency and energy-saving multi-LEDs
- -52°C Polar low temperature endurance
- IP67 waterproof

MORSE SIGNAL TORCH

莫斯信号手电筒

ISO 18813:2022

Type approval by TUV



LNK-WET-02

Product Features 产品特点

- SOLAS ISO18813:2022型式认可
- 光强大于200cd的工作时长超过12小时
- IP67 防水
- 可漂浮设计
- 含包装盒，备用电池和LED灯珠
- 多功能：轻按、放开发送莫斯信号，深按锁定用于照明
- 适用于配备救生筏、艇的应急包等
- SOLAS ISO18813:2022 Type approval
- More than 12h at >200cd
- IP67 waterproof
- Self floatable design
- Box, spare LED and battery included
- Gently press & release to send Morse signal
Deeply press to lock illumination
- Suitable for emergency kits in life rafts, boats, etc.

ELECTRONIC RESCUE SIGNAL LIGHT



USCG 161.013

Type Approval
by RINA

电子求救信号灯

LNK-ERS1是手持SOS求救灯光信号设备。产品随灯配备一面日间求救旗帜。

LNK-ERS1 is a portable SOS visual distress signal device. It is equipped with a daytime distress flag.

用于烟火信号辅助设备或户外活动

Supplemental kit for pyrotechnic flares or outdoor activities

高光效多颗并联LED光源
自动发出白光SOS信号，光强>75cd

High luminous efficiency with multiple LED light sources
Automatically emit white light SOS signal of >75cd

可更换电池，光强大于75cd时连续使用超过20小时

Replaceable batteries, operating time > 20 hours at minimum 75cd

视觉距离可达10公里

Visual distance up to 10 kilometers

IP67防水，可漂浮的产品设计
IP67 waterproof, Self-floatable design

符合USCG 46 CFR 161.013和 COLREGS72标准
Complies with USCG 46 CFR 161.013 and COLREGS72 Annex IV standards



LNK-ERS1



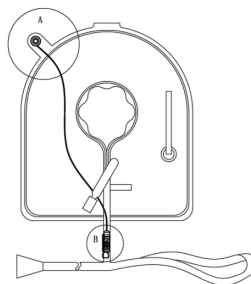
AVIATION SURVIVOR LOCATOR LIGHT



航空救生定位灯



LNK-AL15



INSTALLATION

Product Features 产品特点

- CAAC 、FAA和EASA 三重认证
- 自主电池芯获中美法三国发明专利
- 严格遵循CTSO-C85b, TSO-C85b和ETSO-C85b要求
- 淡水和海水中均能立即启动
- 光强大于1cd的工作时长超过10小时 (1°C)
- 电池反应物完全环保无害、无异味
- 优越的防潮性能
- 产品设计小巧精致
- CTSOA、FAA TSO LODA & ETSOA
- Battery invention patents in China, USA and France
- Strictly meets CTSO-C85b, TSO-C85b and ETSO-C85b
- Activates immediately in both fresh or sea water
- More than 10h at >0.1cd (1°C)
- Environmentally friendly, no toxic reactant
- Excellent anti-humidity performance
- Compact and light weight design

USCG LIFEJACKET LIGHT

水启动电池救生衣灯

USCG
Compliance



LNK-ML18

Product Features 产品特点

- 朗纳科专利水启动贮备电池
- 光强大于0.75cd的工作时长超过8小时
- 符合USCG 161.012标准
- 储运安全、回收处理方便
- 环保，反应物无毒无害
- 尤其适用于海军应用或其他对电池安全性能要求较高的场所
- LONAKO patented reserve battery
- More than 8h at >0.75cd
- Comply with USCG 161.012
- No shipping restriction & disposal problem
- Non-toxic, no harmful reactants
- Suitable for naval and other applications with high requirements for battery safety

SOLAR POSITIONING LIGHTS

太阳能示位灯



LNK-PL-RGW



LNK-PL-W

- 纯太阳能供电，无需外接电源线；
- 产品精致美观，配备遥控器和管卡安装适配器；
- 完全防水，防水等级IP67；
- 三种操作方式：1）手动按钮开关 2）遥控器控制 3）光敏自动感应开关；
- 一个产品多种功能，可自由切换；
- 完全充满电后工作时长：闪烁>150小时，常亮>12小时，SOS信号>20小时；
- 可视距离：环照白光常亮状态 和白光闪烁>2海里，其他光色功能>1海里。
- Pure solar power recharging, no input cable required
- Waterproof, IP67 rating, remote and pipe mounting adaptor included
- 3 Controlling methods: 1) Manual switches 2) Remote control 3) AUTO Light sensor
- One light with Multiple functions
- Working hours after fully recharged: Flashing>150h, Steady>12h, SOS>20h
- Visibility distance: 360° steady white light and flashing white light >2 N miles
Other status and light color >1 N miles

* 为使产品持续工作，需要保证充满电及不使用时关闭产品。Ensure the light is sufficiently charged and turn off when not in use.

2NM

Visual Distance

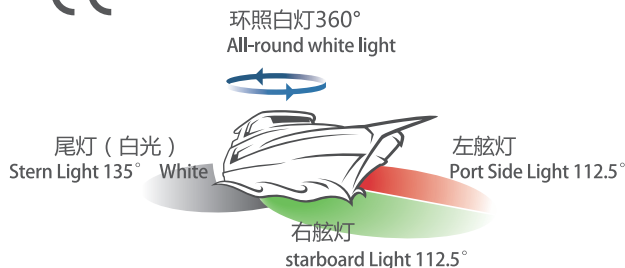
IMO
COLREGS72

RINA Type Approval



NAVIGATION SIGNAL LIGHTS

航行信号灯



LNK-NS-R
左舷灯 Port light



LNK-NS-G
右舷灯 Starboard light



LNK-NS-RG
左右舷灯组合 Bi-color navi. light



LNK-NS-W
尾灯 Stern light



LNK-ARL-W
环照白灯(锚灯) Anchor light



LNK-NS-RGW
三色航行灯+锚灯组合
Tri-color + anchor light Combination

Product Features 产品特点

- RINA型式认证
- 2海里的视觉距离
- 高亮LED光源
- 12 / 24 V兼容直流电压输入
- 底座插接式安装
- 适用于船长<12米的船舶
- RINA type approval based on COLREGS72
- 2 N miles visibility distance
- LED light source
- DC12 /24V input
- Base mount design
- Suitable for vessels (L<12m)

SOLAS LIFEBUOYS

救生圈



LNK-LB25

- 重量不小于2.5kg
- 尺寸：外径 $713\pm 10\text{mm}$ ，内径 $445\pm 10\text{mm}$
- 能支撑14.5kg的铁块在水中漂浮24小时
- 4条等长反光带，4条等长可浮把手索
- 符合SOLAS 74/96, LSA Code, IMO Res. MSC.81(70), GB 4302-2008《救生圈》标准
- Weight: $\geq 2.5\text{kg}$
- Dimensions: Outer diameter $713\pm 10\text{mm}$, inner diameter $445\pm 10\text{mm}$
- Able to support a 14.5kg iron block in water for 24h
- 4 retroreflective tapes & 4 floating lines
- Complies with SOLAS 74/96, LSA Code, IMO Res. MSC.81(70), GB 4302-2008 Lifebuoy standards

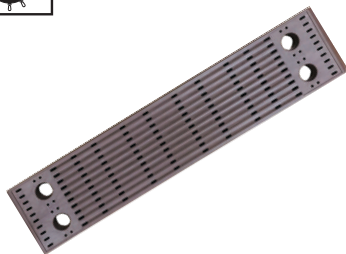


LNK-LB43

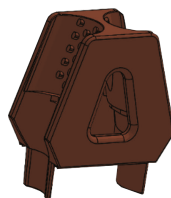
- 重量不小于4.3kg
- 尺寸：外径 $750\pm 10\text{mm}$ ，内径 $468\pm 10\text{mm}$
- 能支撑14.5kg的铁块在水中漂浮24小时
- 4条等长反光带，4条等长可浮把手索
- 符合SOLAS 74/96, LSA Code, IMO Res. MSC.81(70), GB 4302-2008《救生圈》标准
- Weight: $\geq 4.3\text{kg}$
- Dimensions: Outer diameter $750\pm 10\text{mm}$, inner diameter $468\pm 10\text{mm}$
- Able to support a 14.5kg iron block in water for 24h
- 4 retroreflective tapes & 4 floating lines
- Complies with SOLAS 74/96, LSA Code, IMO Res. MSC.81(70), GB 4302-2008 Lifebuoy standards

COMPOSITE STEP & STEP FIXTURE FOR ROPE LADDERS

复合材料踏板&踏板夹具



LNK-LDS1



LNK-LSF1

- 满足ISO5489:2008登船梯及ISO799-1:2019引航员梯标准对塑料踏板的要求
- 复合材料按照ISO877-2:2016标准通过一年暴晒试验，耐老化、耐盐雾、耐腐蚀、抗UV等性能均比木质踏板优越
- 最大耐压载荷可达1100kg
- 踏板镂空设计，减少风阻，确保使用时梯子稳定性好
- 从复合材料配方到踏板成型均为自主设计，整套生产流程均为全自动化制造，确保踏板品质稳定，保持与设计 and 认证的一致性
- 减少木质踏板的应用，对自然资源友好，综合性价比传统木质踏板高
- 踏板材料可回收再利用

-
- Meets ISO 5489:2008 Embarkation Ladder and ISO 799-1:2019 Pilot Ladder
 - Passed ISO 877-2:2016 1-Year Environmental Aging Test to be used as a replacement for wood
 - Able to sustain 1100kg loading with minimal residual deflection after load is released
 - Better stability performance through drainage system that reduces wind resistance and water retention
 - Consistent quality compared to traditional wooden steps resulting from fluctuations in natural wood quality
 - Predictable and scalable production to meet global demand
 - Material of the step can be recycled and reused
-

COMPOSITE EMBARKATION LADDERS



复合材料登乘梯

产品特点：

- 符合ISO 5489:2008 登乘梯标准
- 踏板和三角木采用朗纳科自主开发的复合材料
- 边索使用丙纶芯涤纶外皮三股绳，符合ISO 1181:2004标准
- 各项性能指标均超越ISO 5489:2008标准及ISO 1181:2004绳梯标准要求，解决木质踏板绳梯的不耐腐蚀和老化的行业痛点
- 替代木质踏板可减少木材资源的浪费，材料回收可再利用，真正环境友好

Product Features:

- Complies with ISO 5489:2008 Embarkation Ladder standard
- Ladder steps and step fixture made with LONAKO composite material that meets ISO 877-2:2016
- Secured with triple-strand polypropylene/polyester blend rope (polypropylene core with polyester outer sheath), comply with ISO 1181:2004 standard
- Performance parameters exceed requirements in ISO 5489:2008 / ISO 1181:2004, such as excellent corrosion and aging resistance
- Environmentally friendly: forests are conserved, and step material can be recycled and reused



LNK-ELD Series

COMPOSITE PILOT LADDERS

复合材料引水员梯



产品特点：

- 符合ISO 799-1:2019 引水员梯标准
- 短踏板、1.8米长踏板和三角木均采用朗纳科自主开发的复合材料
- 边索使用丙纶芯涤纶外皮三股绳，符合ISO 1181:2004标准
- 各项性能指标均超越ISO 799-1:2019标准及ISO 1181:2004绳梯标准要求，解决木质踏板绳梯的不耐腐蚀和老化的行业痛点
- 替代木质踏板可减少木材资源的浪费，材料回收可再利用，真正环境友好

Product Features:

- Complies with ISO 799-1:2019 Pilot Ladder standard
- Ladder steps , 1.8m Spreader steps and step fixtures made with LONAKO composite material that meets ISO 877-2:2016
- Secured with triple-strand polypropylene/polyester blend rope (polypropylene core with polyester outer sheath) , comply with ISO 1181:2004 standard
- Performance parameters exceed requirements in ISO 799:1-2019 / ISO 1181:2004 such as excellent corrosion and aging resistance
- Environmentally friendly: forests are conserved, and step material can be recycled and reused

LNK-PLD-Series

企业价值观 OUR VALUES



市场业绩 OUR MARKET



NOTES 备忘录

[illegible]



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