



欣达 D型锁扣 使用说明书

型号 **A-3101/A-3102/A-3104/HH-8136**

ver.202608/A

警告

- 使用本设备的相关活动本身存在固有风险，可能导致重伤甚至死亡。您必须为自身的行为和决策负责。
 - 使用前请阅读并理解本使用说明。
 - 使用本产品前，您必须接受足够的培训，掌握相关基础操作与技术知识。
 - 本产品不可超极限使用，也不可用于设计用途以外的其他场景。
 - 若您对本手册存在疑问或理解困难，请联系欣达。
- 地址：中国浙江省金华市东阳市白云街道望江社区新潮路19号
- 浙江冰峰户外用品有限公司
- 电话：+86 400-8856993

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通过ISO9001质量管理体系认证

贴条码处



安全注意事项

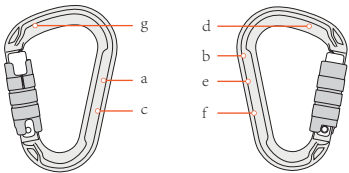
这份说明书将向您解释如何正确使用您的装备。这里只描述确定无误的技术和使用方法。警告标记将告知您使用该装备时的潜在危险，但并不详尽无遗。您有责任阅读每一条警示且正确使用您的装备。任何错误的使用都将造成额外危险。如果您有任何疑问或对于理解这些文件有困难的话，请联系欣达。

	表示有产生严重伤害或死亡的风险
	表示有潜在意外或伤害风险
OK!	表示正确的使用方法
	表示错误的使用方法

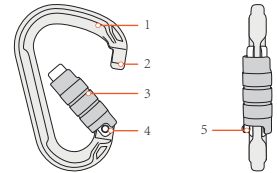
类别

	三段自动主锁	二段自动主锁	丝扣主锁
A-3101			
A-3102			
A-3104			
HH-8136			

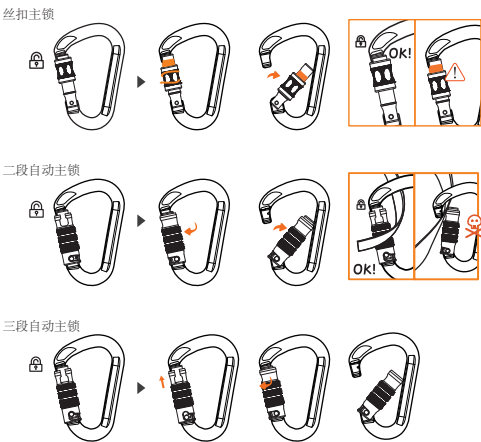
标记说明



部件名称



打开方式



使用说明

适用范围

主锁属于个人防护装备（PPE），适用于攀岩、洞穴探险、溪降、绳索作业、救援场景。

⚠️ 严禁用于工业起重吊装作业。

适用环境温度：-20℃ ~ 50℃。

带锁主锁

- A.丝扣锁:手动旋转锁筒完成上锁;
- B.双动自动锁:锁筒自带自锁功能，旋转锁筒即解锁;
- C.三动自动锁:锁筒自带自锁功能，先抬起再旋转锁筒解锁;

拉力说明

MBS：最小破断强度

↔️ 主轴最小破断载荷：锁门闭合状态下主轴抗拉强度；

↕️ 副轴最小破断载荷：锁门闭合状态下副轴抗拉强度；

↔️ 开门主轴最小破断载荷：锁门完全打开状态下主轴抗拉强度；

型号	主轴最小破断载荷 (kN)	副轴最小破断载荷 (kN)	开门主轴最小破断载荷 (kN)	锁门开口宽度 (mm)	总长 (mm)	总宽 (mm)	EN12275 分类	UIAA 认证	材质
A-3101	26	10	9	23	117	76	/	/	AL
A-3102	26	10	9	23	117	76	/	/	AL
A-3104	26	10	9	23	117	76	/	/	AL
A-3102	35	15	10	21	122	69	/	/	AL
A-3102	35	15	10	21	122	69	/	/	AL
A-3102	35	15	10	21	122	69	/	/	AL
A-3104	26	10	7	21	114	74	/	/	AL
A-3104	26	10	7	21	114	74	/	/	AL
HH8136	25	8	9	30	110	74	/	/	AL

（具体数值参照参数表格）

主要材质：铝合金

标记说明

A：负责生产厂商名称或上市的品牌名称；**B：**提醒用户使用产品前必须阅读说明书的提示**LOGO**；**C：**产品货号；**D：**产品序列号；**E：**断裂负荷；**F：**执行标准；**G：**生产日期。

部件名称

- 1.锁身；2.鼻头；3.锁门；4.锁门转轴；5.上锁系统

配件兼容性

- 1.主锁作为连接件，配套于防坠、限位、绳索作业、救援整套防护系统；适配代表配件之间配合无安全冲突。不同造型主锁适配场景不同：普通直门 / 弯门用于攀岩；螺纹锁适合恶劣环境；自动锁适合频繁开合、易接触杂物工况。**
- 2.铝合金主锁自重轻，适合需要频繁手持的场景。**
- ⚠️主锁承受拉力时，禁止开启锁门。**
- 3.使用前确认主锁与整套系统配件适配，配套挽绳等装备需符合对应国家标准（如 EN354 作业挽绳标准）。**

安全检查规范

每次使用前检查

- 检查锁门、弹簧、锁脊、锁鼻无磨损、裂纹、变形、锈蚀；
 - 锁门卡口无杂物堵塞，锁紧机构开合顺畅。
- 备注：表层涂层磨损会加速金属氧化锈蚀。

使用过程中

- 确认主锁完整扣入配套装备；
- 锁门完全闭合无异物卡滞；
- 拉力沿长轴方向；杜绝杠杆受力、挤压、横向错载等危险受力方式。
- ⚠️ 异物卡入、撞击都可能导致锁门意外松脱。

附加安全须知

- 使用者身体状况必须满足高空作业要求；高空无意识悬空会造成重伤甚至死亡，作业前必须制定完整救援预案。
- 攀岩时需考虑滑轮效应：坠落冲击会使顶部锚固点受力放大至 **1.7** 倍。
- 锚固点位置需高于使用者连接点位；防坠系统计算安全净距时，需计入主锁长度，避免坠落撞击地面或障碍物。
- 整套防护系统的整体强度由最弱部件决定。
- 避免绳索、编织织带与尖锐棱角、粗糙表面摩擦。
- 作业前完成风险评估并落实防护措施。
- 禁止单人独立高空作业，必须备好救援方案与配套救援工具，应对突发险情。

使用年限、定期检测与报废标准

- 合规干燥环境存放，金属无固定存储年限；
- 发生误用、坠落冲击、配件不兼容等情况，单次使用后就可能需要报废；
- 实际使用寿命取决于使用频次、强度与恶劣工况（海水、化学品、泥沙、极端湿度会大幅缩短寿命）；日常检查直接影响装备使用周期。
- 除每次使用前后检查外，每年至少开展一次全面专业检测，使用强度越高，检测频次越高，完整留存检测记录。
- 检测人员必须具备专业资质或厂家官方授权。

检测项目

- 整机无锈蚀、熔损、裂纹、过度磨损、变形、污渍；
- 锁门开合、旋转顺滑；
- 产品的标识清晰可辨。出现变形、锁门卡顿等不合格项，需维修或报废，也可寄回厂家深度检测。

满足以下任一条件，立即报废

- 无完整使用历史记录；
- 对产品强度、安全性能存在任何疑虑；
- 未通过个人防护装备专业检测；
- 锁门、锁紧机构出现故障；
- 不符合现行最新法规标准；
- 承受过高空坠落冲击或超大载荷。

报废处理方式

使用不可擦除标签标记报废，或钻孔、切割销毁防止二次使用；也可寄回厂家统一处置。

责任说明

- 使用者对自身全部操作与判断承担全部责任；无法承担安全责任则禁止使用本品。
- 仅持证专业人员、或在资深专业人员全程监护下可使用本产品。
- .使用前必须完成理论 + 实操培训，掌握装备正确使用及整套防护系统安全知识。
- 产品销往其他国家 / 地区时，说明书需配套当地语言版本。
- 欣达（XINDA）不承担任何非产品质量问题引发的直接、间接人身 / 财产损失。

储存与运输

金属主锁残留水渍、污渍需冲洗干净且晾干，存放于干燥环境。禁止接触摩擦物、重物、化学品、尖锐棱角、热源等，以上物品会永久损伤锁体。金属主锁需要用专用容器存放、运输，全程遵循存储规范。建议指定专人统一管理设备领用、存放。

维护保养

- 规范保养存放可延长设备寿命，保障作业安全。
- 磨损修复：若被金属硬物刮擦、表面粗糙出现浅划痕，可用细砂纸轻轻抛光；划痕、磨损深度不得超过 1 毫米。
- 清洁：使用 20℃ 清水搭配软毛刷清洗内外，禁止高压水枪冲洗；严禁工业洗涤剂；清水冲洗后自然阴干，禁止烘烤。
- 长期使用会造成转轴润滑缺失，建议定期加注润滑油 / 润滑脂。
- ⚠️ 警示：严禁私自改装、改动锁体结构、违规保养；所有维修仅可返回欣达原厂处理。

有限质保

欣达提供 3 年质保，仅覆盖原材料与生产工艺缺陷。质保除外情况：正常使用磨损、变形、氧化锈蚀、私自改装、误用、存放不当、保养缺失、用于设计外场景。

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INSTRUCTION FOR USE D-CARABINERS

TYPE A-3101/A-3102/A-3104/HH-8136

ver.202608/A

WARNING

○Activities involving the use of this equipment are inherently dangerous and can lead to severe injury or even death. You must be responsible for your actions and decisions.

○Read and understand the instructions before use. Before using this product, it is essential to have got adequate training, understood and mastered the basics and techniques.

○This product must not be used beyond its limits, nor be used for any purpose other than for which it is designed. If you have any doubts or difficulties in understanding this manual, please contact XINDA.

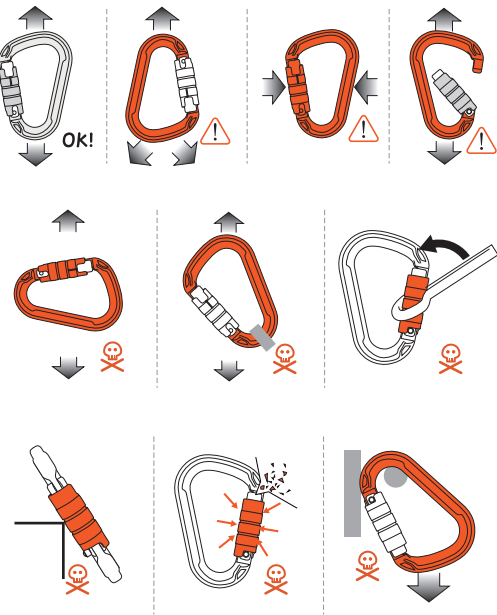
Zhejiang Bingfeng Outdoor Product Co., LTD
Phone number: +86 400-8856993
No.19 Xinchao Road, Wangjiang Community, Baiyun Street, Dongyang City, Jinhua City, Zhejiang Province, China.

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设备检测记录表 EQUIPMENT RECORD					
产品(Product):					
型号(Model&type):		品牌Trade name 欣达(XINDA)		型号识别码(ID number):	
生产厂家 Manufacturer: 欣达XINDA		产地: 中国		联系方式 +86 400-8856993 info@xindaoutdoor.com www.xindasafety.com	
生产日期 / 报废期限 Year of manufacture/life expiry date				采购日期 Purchase date	首次使用日期 Date first put into use
其他备注 (文件编号等) Other relevant information(e.g. document number)					
定期检验与维修履历 PERIODIC EXAMINATION AND REPAIR HISTORY					
日期 Date	检查项目 Inspections	记录事由 Reason for entry (periodic examination or repair)	缺陷记录、维修内容 及相关说明 Defects noted, repairs carried out and other relevant information	检测人员签字 Name and signature of competent person	下次检测 到期日 Periodic examination next due date

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Important Notes



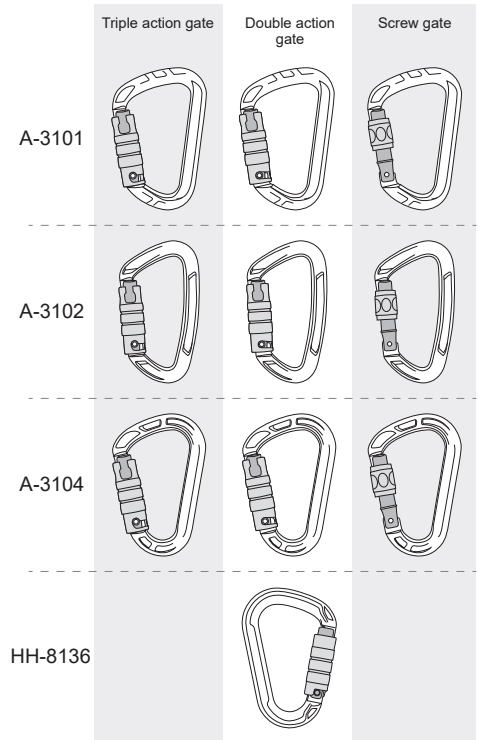
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Safety precautions

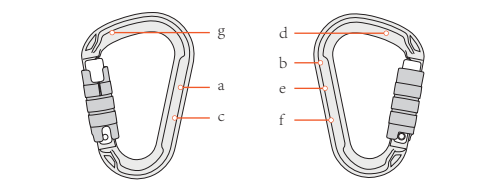
This manual explains how to use the equipment and only appropriate techniques and uses are described. Warning signs tell the potential risks but they don't cover everything. Please read every each warning carefully and use your equipment properly. Any misuse might lead to danger. If you are in doubt, please contact XINDA.

	Risk of severe injury or death
	Risk of accident or harm
	Appropriate way of
	Incorrect way of use

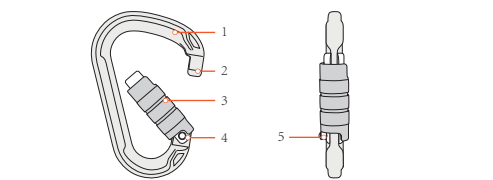
Category



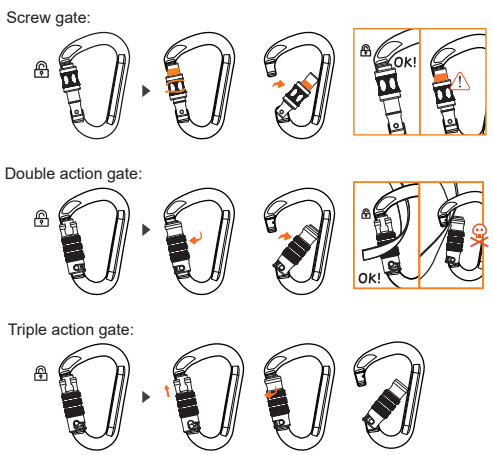
Marking



Nomenclature



How to Open



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Instructions for Use

APPLICATION

Carabiner belongs to PPE (personal protective equipment) which is designed for climbing, caving, canyoning, rope access and rescue.

⚠ Warning: Carabiners can not be used for industrial. Acceptable temperature: -20 C~50 °C.

LOCKING SYSTEM

A. Screw gate: Turn the rotating cylinder by hand to lock.
B. Double action gate: The cylinder can be self locking. Turn the cylinder and unlock.
C. Triple action gate: The cylinder can be self locking. Lift and turn the cylinder and unlock.

STRENGTH

MBS stands for minimum breaking strength.

Major axis MBS: The minimum breaking strength for the major axis when the gate is closed.

Minor axis MBS: The minimum breaking strength for the minor axis when the gate is closed.

Gate opening MBS: The minimum breaking strength for the major axis when the gate is open.

No.	Major MBS (kN)	Minor MBS (kN)	Opening MBS (kN)	Gate opening dia (mm)	Outer length (mm)	Outer width (mm)	EN12275	UIAA	Material
A-3101	26	10	9	23	117	76	/	/	AL
A-3102	26	10	9	23	117	76	/	/	AL
A-3104	26	10	9	23	117	76	/	/	AL
A-3102	35	15	10	21	122	69	/	/	AL
A-3102	35	15	10	21	122	69	/	/	AL
A-3104	26	10	7	21	114	74	/	/	AL
A-3104	26	10	7	21	114	74	/	/	AL
A-3104	26	10	7	21	114	74	/	/	AL
HH8136	25	8	9	30	110	74	/	/	AL

(see strength on the table)

MAIN MATERIAL: Aluminum Alloy.

MARKING

a): Name of the manufacturer or brand name under which the product is marketed; b): A logo reminding users to read the instructions before using the product; c): Product part number; d): Product serial number; e): Breaking load; f): Applicable standards; g): Date of manufacture.

NOMENCLATURE

1. Lock body; 2. Nose; 3. Door lock; 4. Door lock hinge; 5. Locking mechanism

COMPATIBILITY

○ Carabiners are used as connecting elements in personal fall protection systems, i.e. fall arrest, rope access, restraint and rescue systems. Good compatibility means good functional interaction. Different shaped carabiners are suited to different equipment and environment. Carabiners are for climbing; Screw gate carabiners are for harsh environment; Auto lock carabiners work well when they are frequently opened and closed and come into contact with foreign objects.

○ Aluminum carabiners are lighter and finer for most situations and the environment where handiness is required.

⚠ Warning: The connector cannot be opened when under load.

Verify that this product is compatible with the other elements of the system in your application (compatible = good functional interaction). Equipment used with your connector must meet current standards in your country (e.g. EN 354 lanyard for work).

SAFETY CHECK

Before each use:

- Verify that the condition of the gate, the spring, the main body, the nose are free of wear, cracks, deformation, corrosion...
- Verify that there are no foreign objects in the eye and the locking system works well and the locking system works well.

Note: The wear of the coated surface will accelerate the process of oxidation and corrosion.

During each use:

- Verify that the carabiner is clipped into other equipment;
- Verify that the gate closes well and no other foreign objects will obstruct the locking system;
- Verify that the load is on the major axis;
- Verify that there is no complicated loading such as leverage pressure, extrusion or cross loading.

⚠ Warning: Any foreign objects or shocks might unlock the carabiner.

ADDITIONAL INFORMATION:

- The user's health and body condition must be fit for working at heights. Unconscious suspension at height can lead to severe injury or even death. Ensure that a rescue procedure is in place.
- The pulley effect should be taken into consideration when climbing. Any impact on the climber will increase the loading on the top anchor by 1.7 times.
- In the industrial use, the breaking load of a single anchor

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point must be 12kN at least or meet the standards of EN 795. The position of anchor should be higher than the user's connection. In a fall arrest system, it is essential to take the length of carabiners into consideration and check the required clearance below the user in order to avoid any impact with the ground or with an obstacle in case of a fall.

- In a safety system, the weakest component determines the strength of the whole system.
- Avoid that the rope and other braided fabric rub against sharp edges or rough surfaces.
- A risk assessment is needed, and protection measures should be taken before use.
- Working alone is not allowed, and you should have a rescue plan and the means to implement it in case of encountered difficulties.

LIFE SPAN, REGULAR INSPECTION AND RETIREMENT

- No storage limit for the metal in the proper environment; the plastic parts of the equipment can be stored up to 10 years and the rubber parts can be up to 3 years.
- The equipment may need to be retired only after one use because of misuse, accidents or compatibility problems.
- The practical lifespan depends on the type and intensity of usage, harsh environment (marine environment, extreme temperatures, sand and mud etc.). Equipment check has great effect on the lifespan. The comprehensive inspection is required once every 12 months minimum, apart from normal check before use, during use and after use. The greater the intensity of use, the more checks you need. Record the results of the inspection.
- The inspector must be competent or authorized by the manufacturer.

INFORMATION INCLUDED ON THE INSPECTION MANUAL

Model number/data matrix/purchase date/manufacture date/first time to use/standards/inspection date/records (malfunction, condition, user's usage record) /results and suggestions (to retire the equipment or not)/next inspection date/inspector's data (name and contact).

WHEN TO RETIRE YOUR EQUIPMENT:

- You don't know its usage history.
- You doubt about its performance, strength or safety.
- It fails to pass PPE inspection.
- Malfunctions are found.
- It fails to meet updated regulations or standards.
- It has been subjected to a major fall or load.

HOW TO RETIRE YOUR EQUIPMENT

Mark it with irremovable labels or destroy it as to prevent further use. For instance, drill or cut it. Or return it to the manufacturer for disposal.

RESPONSIBILITIES

- You are responsible for your actions and decisions. If you cannot take the responsibilities, don't use it.
- Only qualified person or one under supervision of a competent and experienced person can use this product.
- You must take training course including theory and practice, basics for working at height, proper ways to use and relevant safety system knowledge before use.
- When it is resold to other countries or regions, the instruction manual must be made in local languages.
- XINDA is not responsible for any direct or indirect non-quality induced consequences.

STORAGE AND TRANSPORT:

Remaining fluid and other stain on metal equipment must be rinsed and dried and then stored in a dry environment. The equipment must not come into contact with abrasion, load, chemicals, sharp edges or heat source etc. as those are inherently harmful. Metal equipment must be specially stored in the container and transported in compliance with storage requirements.

The use and storage of the product is suggested to be taken care of by accountable people.

MAINTENANCE

Proper maintenance and storage can extend the lifespan of the equipment and also guarantee the user's safety.

- Wear treatment: You can polish the carabiner surface with sandpaper when it is worn by sharp metal (like hangers), becoming rough or having cracks.
Note: The depth of the wear or cutting nick cannot be over 1mm!
- Cleaning: Use clean water (20°C) and soft brush to rinse the external and internal of the product. No high-pressure water. No industrial-grade cleansers. Rinse afterwards and dry it naturally. No heat drying.
- Long time use of the equipment will reduce the lubrication of the parts such as pivots. Lubricating oil or grease is suggested to be in use.
- Warning: No modification, alternation or improper maintenance is allowed. It can only be repaired in the XINDA factory.

LIMITED WARRANTY:

XINDA provides a 3-year warranty against any material or manufacturing defects. Exclusions: normal wear and tear, deformation, oxidation, modifications or alterations, misuses, incorrect storage, poor maintenance, uses for which this product is not designed.

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