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# 3S INDUSTRY





# COMPANY PROFILE

## 3S LIFT IS A LEADING GLOBAL SUPPLIER OF ACCESS EQUIPMENT & SERVICES FOR PEOPLE WORKING AT HEIGHT

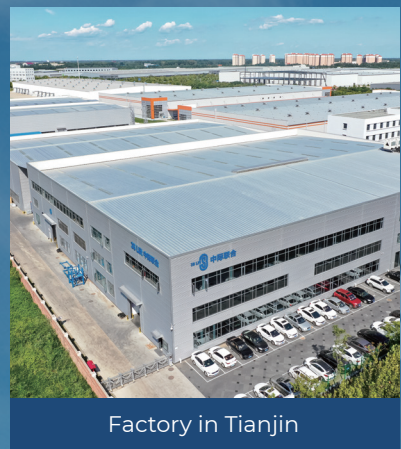
Founded in 2005 , 3S LIFT was listed on stock market in 2021. The company's compound growth rate of revenue and profit in 2022 exceeded 40%.

Headquartered in China, 3S LIFT has subsidiaries in the United States, Germany, India, Japan, Australia and Brazil.

There are over 900 employees globally, including 300 technicians.

Thanks to our spirit of innovation, we have obtained over 100 global certificates in accordance with ISO and OSHA, and 130 Intentional patents.

The main market for 3S products is the wind industry and our solutions have been applied across 61 countries and over 2,000 wind farms.



Factory in Tianjin



R&D Center in Beijing



North America Branch in Texas



Europe Branch in Hamburg



India Branch in Chennai



Japan Branch in Tokyo

# GLOBAL BUSINESS



- Headquarters in China
- Subsidiaries
- Distributor Network
- Countries where products are mainly used in Construction industry
- Countries where products are mainly used in the wind power industry

SERVICE LIFT <b>NO.1</b> in Global Sales	CLIMB AUTO SYSTEM <b>NO.1</b> in Global Sales	FALL PROTECTION SYSTEM <b>NO.1</b> in Global Sales
OFFSHORE PLATFORM CRANE <b>NO.1</b> in Domestic Sales	<b>NO.3</b> in Global Sales	AUTO DESCENDING DEVICE <b>NO.1</b> in Global Sales



# Ladder Hoist

Performance Data	
Plug-in model	MH03L250 - expert
Rated load(kg / lbs)	250 / 552
Lifting speed(m / min   ft / min)	30 / 98 (double speed)
Smooth start /stop	Yes
IP class	IP 54 (electrical)
Operating temperature(°C)	-20 – +40
Drive unit weight(kg / lbs)	80 / 176
Noise level(db)	72 - 76
Wire rope diameter (mm   inch)	6   1/4
Power supply(v)	230 / 110 , Frequency adaptation
Over load detection	VFC control (10% surplus)



## Competitive features

- Tool- free installation.
- Various carrier platforms meet almost any scenario.
- Soft start and stop thanks to the frequency conversion control system.
- Easy to transport, it can be suitable for regular truck.
- Various safety functions, fall protection, overload detection, power outage protection, emergency braking device and etc.





# Battery Ladder Hoist

Performance Data	
Battery model	MH04L120
Power supply (w)	550
Battery voltage	2 pcs × 18 v / 5 Ah
Bahery brand	Dewalt
Rated load (kg / lbs)	120 / 265
Max. lifting height (m / ft)	10 / 33
Lifting speed (m / min   ft / min)	15   49
Wire rope diameter(mm   inch)	5   1 / 5 , Stainless Steel
Waterproof	IP 54 (electrical)
Over load detection	Current overload



## Competitive features

- Multi-purpose. solar panel platform & universal platform.
- Easy installation. It takes two people 2.5 minutes to assemble 10 m guide rail and 5 minutes to put it in place.
- Automatic Transition. The hoist has automatic transition feature, allowing the load carrying platform to transit to the roof and facilitating unloading process.
- Fall Protection.The driving unit will instantly lock on the guide rail if the power goes off.
- 30+ cycles (10 m) fully loaded (120 kg/265 lbs) per charge, batteries will partially recharge during descent process.





# Trailer Lift

Performance Data		
Model	3S - YT724	3S - YT836
Max. travel speed (km / h)	90	45
Rated load (kg)	250	400
Max. rail length (m)	24	36
Max. lifting speed (m / min)	24 / 48	48 / 48
Dead weight (t)	1.4	2.8
Power supply (electric model)	Electric motor	Petrol engine
Engine (motor) power (kW)	3 (230 V , 50 Hz)	13
Control voltage (v)	DC 12	DC 12
Chassis dimensions(L, W) (mm)	4990 x 1399	6400 x 1880



## Competitive features

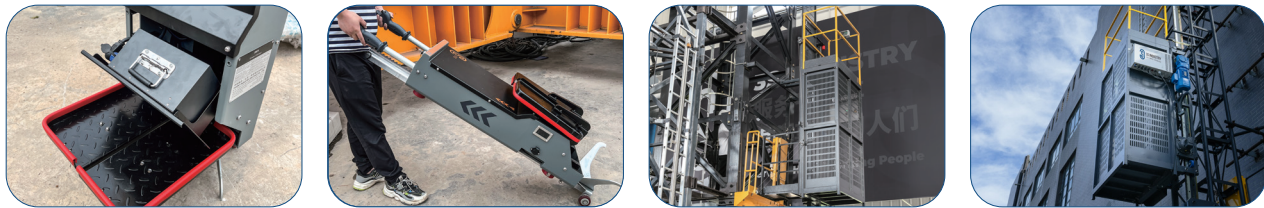
- The device is installed on the axle of the vehicle and can be towed at a maximum speed of 45 km/h, allowing for quick transportation to the intended destination.
- Compact in structure, upon arrival at the construction site, there is no need for additional installation or deployment; the telescopic arm can be extended immediately for construction operations.
- The platform can be equipped with various materials and is widely applicable in multiple construction scenarios such as lifting building materials, moving furniture, and lifting solar panels. Special materials can also be customized for dedicated platforms.





# Tower Climber

Performance Data		Performance Data	
Model	T150	Model	TL20
Rated weight (kg)	70	Rated Weight (kg)	280
Rated Load (kg)	150	Rated load (kg)	200
Rated speed (m / min)	18 (2 minutes to reach the top of a 40 meter tower crane)	Rated Speed (m / mim)	24
Battery range (m)	≤ 1500 (40 round trips on a 40 meter tower crane)	Max. height (m)	150
IP rating	IP 65	Dimensions (m × m)	0.6 × 1.1 × 2.0
Operating temperature (°C)	-20 – +55	Power supply	380 V, 3 P+N+PE, 50 / 60 Hz
Ambient wind speed (m / s)	≤ 13 (wind force: 6)	Motor (kW)	2.2
Service life (years)	10	Length of standard rail section (m)	1.5
Rated voltage	Adapt to regional outlet	Rack and pinion gear module	6
Standards	Directive 2006 / 42 EN 1495 Lifting platforms EN 12100 - 1 Safety of machinery EN 13849 - 1 Safety of machinery - Safety - related parts of control systems CE, ETL	Control voltage(v)	24



## Competitive features

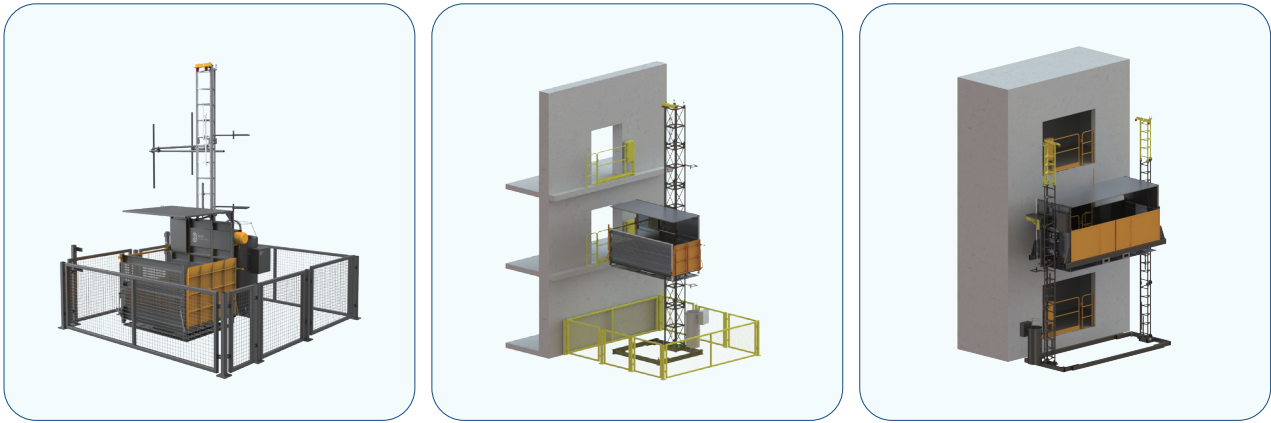
- Access the working height without ladder climbing. No more physical fatigue. Comfortable operation with ergonomic two-handle start-up switch system.
- Five safety features: Redundant Fall Protection Systems (independent Fall Arresters for the operator and the lift). Upper/lower limit function, overload protection, two-handle start-up switch system, low-power protection.
- Tower Climber can be applied in various industries, such as tower cranes, wind turbine tower, high-voltage power transmission tower, cooling tower, warehouse storage, Refinery, Grain Silo, and bridge tower inspections etc.
- The Tower Climber is easy to operate simply by pressing two handle switches simultaneously. The upper/lower limit function ensures the Climber stops automatically when it reaches the top or the bottom of the ladder.





# Transport Platform

Performance Data			
Model	3S 500 H / HP	3S 1500 H / HP	3S 2000 H / HP
Rated load (kg)	500	1500	2000
Rated load (person)	3	7	7
Max. speed with materials (m / min)	24	24	24
Max. speed with persons (m / min)	12	12	12
Platform dimensions (length × width) (mm)	1700 × 1400	3200 × 1400	4300 × 1700
Maximum height (m)	100	100	100
Power supply	400 V, 3 P+N+PE, 50 Hz	400 V, 3 P+N+PE, 50 Hz	400 V, 3 P+N+PE, 50 Hz
Motor (kW)	5.5	7.5	2 × 7.5
Operating temperature (°C)	-20~ + 40	-20~ + 40	-20~ + 40
Corrosion resistance class	C4	C4	C4



## Competitive features

- Automatic landing.
- Two kinds of operations: operation on the ground and operation in the cage during maintenance only.
- Canopy is optional.
- Cage size and parameters can be designed according to customer's requirements.





# Mast Climbing Work Platform-Single Mast

## Performance Data

Model	MCWP 450 - S
Platform load (kg)	1400 - 2300
Platform dimensions (length × width) (m)	(4.2 - 10.2) × 1.2
Lifting capability (m)	200
Lifting speed (m / min)	8 ± 8%
Power supply	400 V, 3 P + N + PE, 50 / 60 Hz
Motor (kW)	5.5
Standard mast section model (mm)	450 × 450 × 1508
Rack and pinion tooth module	m = 8
Overspeed safety device	SAJ40 - 0.5

## MCWP450-S Configurations

		A: Drive unit section		B: 1.5 m Work platform	
Platform load (kg)	Configuration	Maximum effective load (kg)		Components weight (kg)	
4.2	B   A   B	2300		1360	
7.2	B   B   A   B   B	2000		1680	
10.2	B   B   B   A   B   B   B	2000		2000	

### Competitive features

- LCD screen display, daily maintenance, fault alarm, clear at a glance, improving safety of operation.
- Two operating modes for carrying people and cargo correspond to two speeds, safe and efficient.
- Made of high-strength materials for durability and reliability. This ensures long-last stable operation of the equipment under harsh working condition.





# Mast Climbing Work Platform-Twin Mast

Performance Data	
Model	MCWP 450 - T
Platform load (kg)	2500 - 4500
Platform dimensions (length × width) (m)	(8.4 - 29.4) × 1.2
Lifting capability (m)	200
Lifting speed (m / min)	8 ± 8%
Power supply	400 V, 3 P+N+PE, 50 / 60 Hz
Motor (kW)	2 × 5.5
Standard mast section model (mm)	450 × 450 × 1508
Rack and pinion tooth module	m = 8
Overspeed safety device	2 × SAJ40 - 0.5

MCWP450-T Configurations			
Platform load (kg)	Configuration	A: Drive unit section	B: 1.5 m Work platform
		Maximum effective load (kg)	Components weight (kg)
8.4	B A B B A B	4500	2640
9.9	B A B B B A B	4500	2800
15.9	B B A B B B B B A B B	3900	3440
17.4	B B A B B B B B B A B B	3750	3600
20.4	B B A B B B B B B B B A B B	3450	3920
23.4	B B A B B B B B B B B B B A B B	3150	4240
26.4	B B B A B B B B B B B B B B A B B B	2850	4560
29.4	B B B B A B B B B B B B B B B A B B B B	2500	4880





# Industrial elevator

Performance Data	
Model	SL50
Rated load (kg)	500
Capacity (Persons)	3
Speed (m / min)	0 - 36
Motor (kW)	7.5
Power supply	400 V, 50 / 60 Hz, 3 P + PE
Dimensions (mm)	780 × 1040 × 2000
Service life (years)	40



## Competitive features

- Multiple protection mechanism.
- Rack and pinion guide rail.
- Dual power supply mode.
- Overhead drive system layout.
- Tailored according to specific projects.





# Industrial elevator

Performance Data	
Model	SL200
Rated load (kg)	2000
Capacity (Persons)	18
Speed (m / min)	0 - 36
Motor (kW)	2×15
Power supply	400 V, 50 / 60 Hz, 3 P + PE
Dimensions (mm)	3000 × 1500 × 2200
Service life (years)	40



## Competitive features

- Multiple protection mechanism.
- Rack and pinion guide rail.
- Dual power supply mode.
- Overhead drive system layout.
- Tailored according to specific projects.





# Construction Hoist

## Performance Data

Series	Model	Rated load (kg)	Speed (m / min)	Motor power (kW)	Inverter power (kW)
3S - 450	SC 100 / 100	1000	0 - 35	2 × 10.5	22
			0 - 46	2 × 13	30
			0 - 54	2 × 16	37
			0 - 63	2 × 20	45
	SC 200 / 200	2000	0 - 35	2 × 13	30
			0 - 46	2 × 20	45
			0 - 54	2 × 20	45
			0 - 63	2 × 26	75
3S - 650 A	SC 100 / 100	1000	0 - 35	2 × 9.5	22
			0 - 46	2 × 13	30
			0 - 54	2 × 16	37
			0 - 63	2 × 20	45
			0 - 96	3 × 20	75
	SC 200 / 200	2000	0 - 35	2 × 13	30
			0 - 46	2 × 20	45
			0 - 54	2 × 20	45
			0 - 63	2 × 26	75
			0 - 96	3 × 28	110
	SC 300 / 300	3000	0 - 35	2 × 20	45
			0 - 46	3 × 20	75
			0 - 54	3 × 20	75
			0 - 63	3 × 26	90
			0 - 96	3 × 35	132

## Performance Data

Series	Model	Rated load (kg)	Speed (m / min)	Motor power (kW)	Cage size (L x W x H) m
3S - 650 B	SC 100 / 100	1000	35	2 × 9.5	3.2 × 1.5 × 2.3
	SC 200 / 200	2000	35	3 × 11	3.2 × 1.5 × 2.3

### Competitive features

- The whole hoist lifting, installation, disassembly is convenient and quick.
- Variable frequency drive, smooth braking, reduce impact, reduce failure rate.
- Automatic layer selection, flat layer function, easy to operate; Can be equipped with face recognition system.
- Can be customized according to user needs.





# Retractable Discharge Platform

Performance Data					
Model	S X P250	MLP2200 - H	MLP3400 - H	CNH32	CNH42
Outer width(mm)	2280	2200	3400	3165	4165
Inner width(mm)	1680	1740	2900	2500	3500
Front and rear support spacing(mm)	1600	2300	2000	2235	2235
Distance between left and right supports(mm)	2000	2050	3250	2965	3965
Minimum support spacing(mm)	2600	2400	2400	2420	2420
Maximum support spacing(mm)	4000	3300	3300	3700	3700
Shrinkage length(mm)	3600	5805	5700	5500	5500
Development length(mm)	5370	9435	9200	8500	8500
Fixed frame extension length(mm)	1130	1450	1200	1400	1400
Distance of front support from wall(mm)	652	1695	/	1635	1635
Active frame extends length(mm)	1870	3800	3800	3005	3005
Overhang distance(mm)	3000	/	/	/	/
Maximum total load (uniform distribution)(t)	2.5	5	5	10	10

Note: Size can be customized



## Competitive features

- The bearing platform is retractable and can be used by multiple vertical platforms at the same time.
- The telescopic platform is folded as a whole for transportation, saving transportation costs.
- Simple structure and convenient installation and disassembly.
- The platform size and carrying capacity can be customized according to user requirements.
- Suitable for residential structures, frame shear structures and other construction engineering fields.





# Swivel Arm Hoist

Performance Data	
Model	RH - T250
Max rated load (kg)	250
Speed (m / min)	22 - 28
Motor	1.5 kW, 230 v, 50 Hz
Duty cycle	S3 (60%)
Diameter of wire rope (mm)	5 (1770 MPa)
Nominal tensile strength (Mpa)	1770
Hoist height (m)	25 / 50
Swivelling frame (m) (swivel radius)	0.8
Operating temperature (°C)	-20~ + 40
Noise (dB)	< 85
Insulation class of the whole machine	F
IP level	motor IP 54, control box IP 55



## Competitive features

- Durable and suitable for complex scenarios and working conditions.
- Modular design and convenient installation.
- High work efficiency and simple operation.
- Easy disassembly and maintenance.





# Traction hoist(integrated type)

Performance Data					
Model	Rated load (kg)	Lifting speed (m / min)	Wire rope diameter (mm)	Wire rope length (m)	Motor power (kW)
TH5OOB	500	9	8.3	80	1.5
TH7OOB	700	9	9.1	70	1.8
TH10OOB	1000	9	10.2	60	2.2



## Competitive features

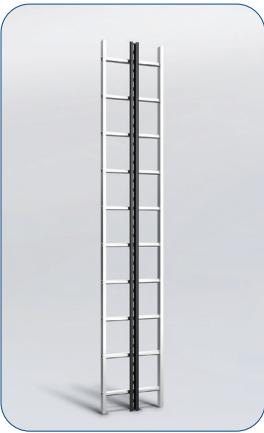
- High-precision load detection, with alarm and automatic shutdown upon detection of overload to ensure equipment safety.
- Overspeed safety device for fall protection.
- Upper limit device for automatic detection, triggering an emergency stop after activation.
- High reliability through extensive market application experience.
- Automatic rope arranging device, ensuring even distribution of the rope.
- High-strength swivel hook, preventing the steel wire rope from twisting with the load and extending its lifespan.
- Automatic rope collecting reel, capable of synchronizing with the winch's movement.
- Optional counter and handheld remote control.





# Guide Rail Fall Protection System

Performance Data			
Model	TF - R	TF - R5	TF - F
Catagory	Guide rail fall arrest		
Guide rail type	Internal sliding type	Internal sliding type	External snap-on type
Applicable ladder	Aluminum or steel ladder		
Max.static load(kN)	16		
Certificates	Comply with the corresponding certification of the fall arrester		
Compliant standard	EN 353 - 1 : 2014 + A1 : 2017 ANSI A 14.3 CSA Z 359.2.1 GB / T 24542 - 2009		



TF - R



TF - R5



TF - F

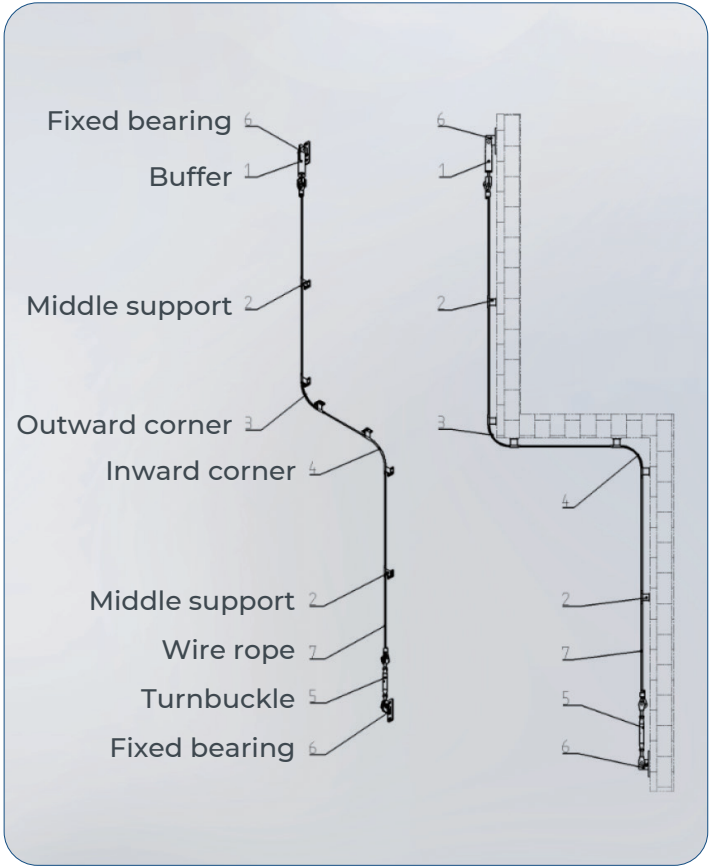
## Application

- Our Guide Rail Fall Protection System TF - R / TF - R5 / TF - F consists of two components: a guide rail and a Fall Arrester.
- The Fall Arrester moves with the technician, travelling along the guide rail. Made from high-strength aluminum alloy that is resistant to acid, alkali and corrosion, our fall protection systems are suitable for deployment even in the harshest conditions. The system is suitable for installation on any aluminum or steel ladder.





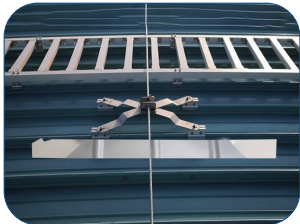
# Horizontal Lifeline System



## Competitive features

- **Flexible solutions**  
It can be applied to a variety of roofing, and can be customized as required by the customers.
- **Extensive experience in research, development and production**  
With more than 100,000 successful cases, 3S LIFT has over 20 years of experience in the development, test, production and application of fall arresters.
- **Excellent user experience**  
It is easy, convenient, safe and reliable for installation and usage.
- **Certification test**  
It has been certified by the laboratories of 3rd parties.
- **After-sale service**  
The staff in global after-sale service center can provide round-the-clock online service, make response in 48 hours, propose solutions in 72 hours and arrive on site in 96 hours.

## Product series



3S Horizontal Lifeline System fixed on color steel tile roof.



3S Horizontal Lifeline System fixed on wall anchor points.



3S Horizontal Lifeline System fixed on the roof by bolts.



3S Horizontal Lifeline System attached to the counterweight.



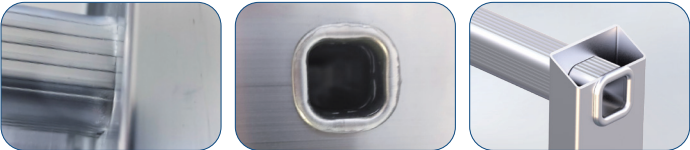


# Aluminum Ladder

Performance Data	
General width specifications(mm)	470 / 490 / 520 / 575
Ladder width(mm)	300 - 1000 (can be customized)
Standard ladder section length(mm)	5880
Standard rung spacing(mm)	280
Rung specifications(mm)	30 x 30
Stile specifications(mm)	60 x 25 / 72 x 25 / 74 x 25
Standard	GB / T 17889.2 ; GB / T 17888.4 ; EN 131-2 ; EN ISO 14122 ; DIN 18799 ; AS 1657 ; ANSI - ASC A 14.3 ; OSHA 1910.23 ; OSHA 1926.1053
Certification	CE



## Ladder manufacturing



The ladder is connected by flaring and riveting to ensure that it can be assembled firmly with high quality, good ability of crush and shock resistance, so that the ladder rung can be connected firmly to the ladder stile.

## Competitive features

- There are a variety of methods to install the ladder, these methods allow flexible installation of the ladder.
- The ladder can not only be used directly for climbing and used as the guide of service lift, but also as the installation base of Climb Auto System, Climb Assist System and other products.





# LADDER WITH SAFETY CAGE

## Ladder Performance Data

Material	High - strength aluminium alloy	Zinc aluminium magnesium steel
Dimensions(mm)	470 / 490 / 575	470 / 490
Ladder width(mm)	400 ~ 1000	400 ~ 1000
Standard section length(mm)	5880	5880
Rung spacing(mm)	280	280
Rung(mm)	30 × 30	30 × 30
Ladder stile(mm)	60 × 25 72 × 25 74 × 25	60 × 25
Standard	EN 131、ISO 14122-4 ANSI - ASCA 14.3 OSHA 1910.27 AS 1657, DIN 18799-1	EN 131、ISO 14122 - 4 ANSI - ASCA14.3 OSHA 1910.27 AS 1657, DIN 18799 - 1
Certification	CE	

## Safety Cage Performance Data

Specifications	Fixed safety cage	Foldable safety cage
Hoop diameter(mm)	650 ~ 800	600 ~ 650
Distance between hoops(mm)	With 3 upright bars: ≤ 900 With 5 upright bars: ≤ 1500	≤ 800

\*Non-standard customization is available



### Competitive features

- In addition to the safety cage, the fall protection lifeline system can to provide a secondary protection.
- The ladder is manufactured using the expanding and flaring riveting technology, and has reinforcement blocks at joints. This eliminates the risk of weld looseness, and makes the ladder capable of withstanding higher bearing capacity and impacts.
- The safety cage is small and light. Some safety cages are removable and are easy for transport.





# Full-Body Harness

Performance Data		
Model	11011050	SA - 01001
Description	5 attachment points 7 adjustments	5 attachment points 5 adjustments
Certificates	ANSI	CE, LA
Standard	ANSI Z359.11- 2021	GB 6095 - 2021; EN 361; EN 358 EN 813; AS / NZ S 1891.1 : 2007
Static load(kN)	16	15
Rated load(kg)	140	100
Service life(years)	5	5
Material	Webbing: 1000 D Polyester fiber; Hardware: Aluminum alloy; Storage bag: Elastic + Retainer plate; Pad: 3D mesh fabric + EVA	Webbing: Nylon; Hardware: Aluminum alloy; Storage bag: Elastic + Retainer plate; Pad: 3D mesh fabric + EVA



11011050



SA - 01001

## Competitive features

- Preferred material.
- Aviation grade aluminum alloy attachments, light weight and high strength.
- Upgraded sewing process and coating techniques make webbing wearresistant, waterproof and oilresistant.
- Wear-resistant waist support plate is replaceable and saves production and management costs.
- Multiple adjustment buckles are suitable for the operators of different sizes.
- Comfortable and breathable waist pad relieves fatigue from long operation.
- The green prompt sign on the quick connect buckle indicates that is fastened.
- Left and right pads with different colors, convenient and fast to wear.
- Strap keepers prevent safety hazards caused by redundant straps.

# Safety Lanyard

Performance Data						
Model	12100120	12100110	SC - 01001	SC - 02001	SD - 01001	SE - 01001
Description	General industry double - leg lanyard	General industry double - leg lanyard Type B	Wind power double - leg lanyard		Wind power work positioning lanyard	Wind power flexible anchor line
Certification	ANSI	CE				
Standard	ANSI Z359.13 - 2013	GB 24543 - 2009 GB / T 24538 - 2009 GB / T 23469 - 2009 EN 354 - 2010 EN 355 - 2002 EN 362 - 2004	GB 24543 - 2009 GB / T 24538 - 2009 EN 354 - 2010 EN 355 - 2002 AS / NZS 1891.5 - 2020		GB 24543 - 2009 EN 358 - 2018 EN 365 - 2004	GB 24543 - 2009 EN 358 - 2018 EN 353 - 2 - 2002 EN 795 - 2012
Static load(kN)	22					
Rated load(kg)	140	100				
Service life (years)	3					
Material	Lanyard: Nylon; Shock absorber: High-strength polyester; Carabiner & Snap hook: Aluminum alloy					
Length(m)	1.8	1.5	1.5	1.5	1.5	Customized
Diameter(mm)	12	12	14	14	12	12
Static impact force of shock absorber(kN)	≤ 8	≤ 6	≤ 6	≤ 6	/	/



12100120



12100110



SC - 01001



SC - 02001



SD - 01001



SE - 01001

## Competitive features

- The safety Lanyard is made of synthetic fiber material and intended for connecting with the Full-Body Harness. It is designed to provide secondary protection for the operator working at height.
- Full-Body Harness and Safety Lanyard are a pair of combined protective equipment. They are the main personal protective equipment to prevent falls and protect the safety of workers at heights. The two must be used together.