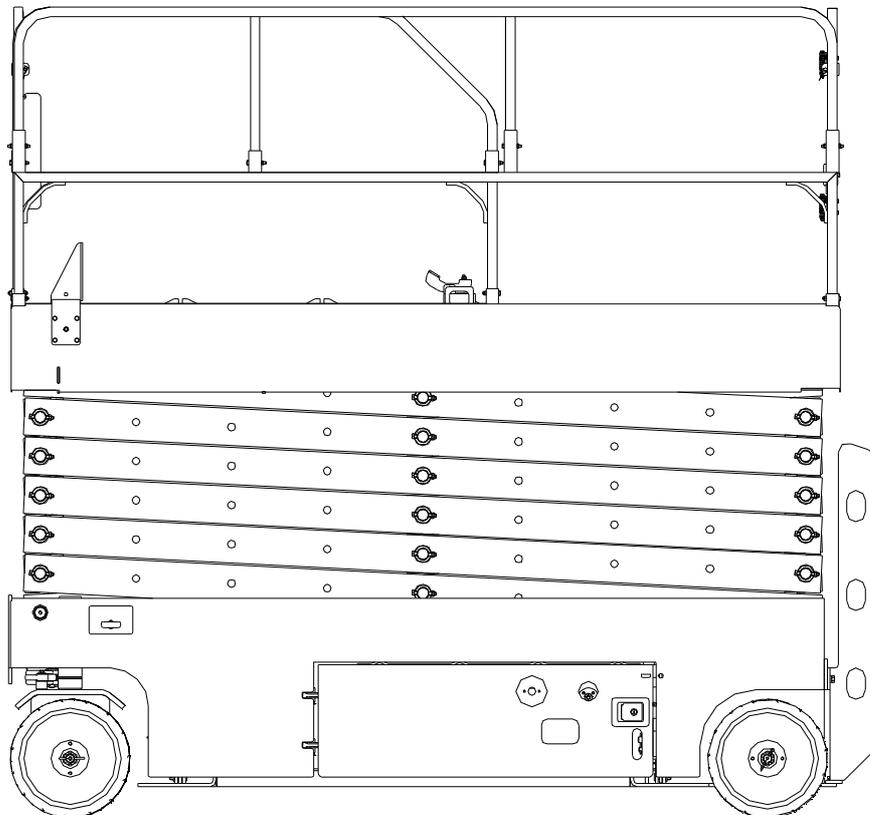




Hunan Sinoboom Heavy Industry Co., Ltd.

Technical Offer

GTJZ1412



I. Company Profile

Founded on 28th Feb, 2008, Hunan SINOBOOM Heavy Industry Co., Ltd. is situated in Changsha, Hunan Province, China, known as the capital of engineering machinery in this country. This company is specialized in research, development, manufacturing, sale and service of aerial work equipment. There are four series of aerial work platforms, including self-propelled articulated boom lift /telescopic boom lift /scissor lift and spider lift, with working height from 6-44m. So far, the products have sold well all over China and the overseas market, e.g. Southeast Asia, Australia, Middle East, South America and Europe.

As a pioneer of aerial work platforms of China, the company owns the proprietary core technology and 30 items of intellectual property. Also sinoboom has come to be a member of IPAF (International Powered Access Federation) and China Engineering Machinery Association. In 2010, SINOBOOM was listed as one of key enterprises under four RMB100-billion industrial clusters (for equipment manufacturing) supported by the government. Meanwhile, SINOBOOM has passed the Australian ADR, European CE and Russian GOST.

Our products are widely used for ship building and repairing construction, civil engineering, electric power, communications, gardening, advertising, venues and stadiums, airport, harbor and various large factories and mines. It can satisfy the requirements of different customers in vary of industries.

Covering 200,000 m², Ninxiang County Jinzhou Industrial Park is an important carrier for sinoboom to develop further. The total investment in this program is approximately RMB 500,000,000. The area of Phase 1 is 66,667 m². The total building area is approximately 41,000 m², including 25,000 m² premises, e.g. Assembly Shop, Structure Shop, Coating Shop, Product Test Laboratory, Electric Laboratory, Hydraulic Laboratory, Office Building, Dormitory, etc. Phase 1 had been put into operation in April 2013. The production capacity will exceed RMB 500 million in value.

Vision decides height, height determines strength. With "Integrity brings business, Science makes progress", we are looking forward to cooperate with friends over the world.



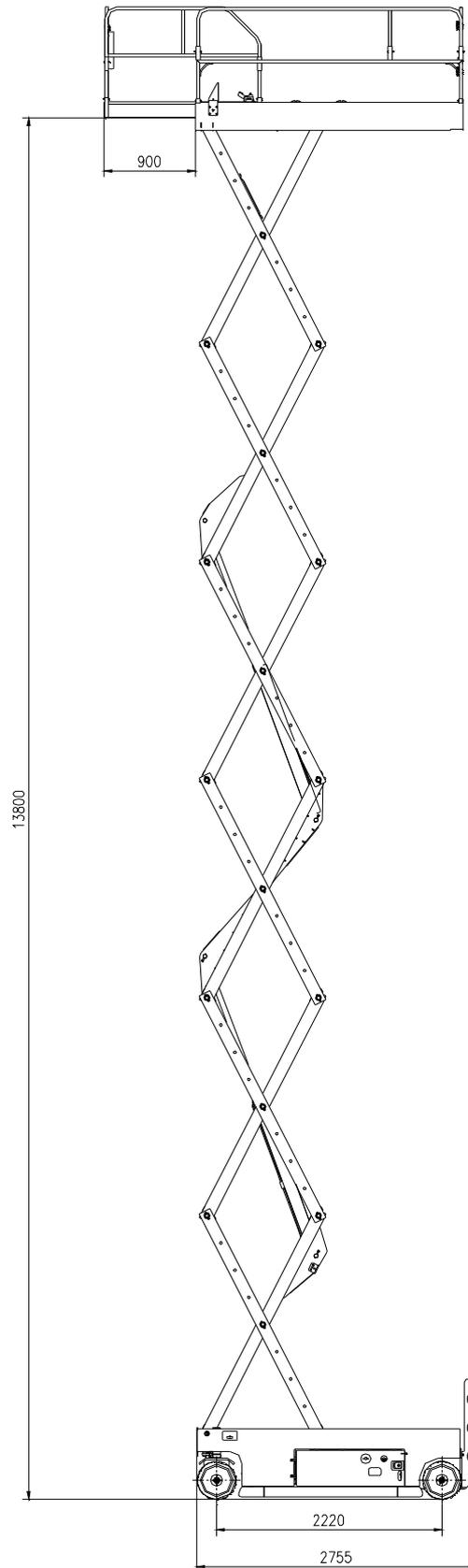
1、 Technical Parameters

GTJZ1412 Self-propelled Electric Scissor Lift:

| Technical Parameters | GTJZ1412 |
|---|------------------|
| Max. platform Height | 13.8m |
| Max. working Height | 15.8m |
| Extension outreach | 0.9m |
| Turning radius (outside) | 2.56m |
| Turning radius (inside) | 0m |
| Grade ability | 25% |
| Load capacity (Platform) | 227kg |
| Driving Speed(stowed) | 0~3.2km/h |
| Driving Speed (raised) | 0~0.8km/h |
| Rising speed (Without loading) | 75s~85s |
| Falling speed (Without loading) | 55s~63s |
| Max. allowable wind speed(indoor) | 0m/s |
| Max. allowable wind speed(outdoor) | 12.5m/s |
| Max. allowable wind slope(front/back) | 3° |
| Max. allowable wind slope(right/left) | 1.5° |
| Max. platform occupants(indoor) | 2 persons |
| Max. platform occupants(outdoor) | 1 person |
| Max. allowable side force(indoor) | 400N |
| Max. allowable side force(outdoor) | 200N |
| Dimensions | |
| Overall length(stowed) | 2.76m |
| Overall width (stowed) | 1.25m |
| Overall height(stowed, guardrail folded) | 2.20m |
| Overall height(stowed,guardrail unfolded) | 2.60m |
| Grand Clearance | 0.1m |
| Wheelbase | 2.22m |
| Platform size(L x W x H) | 2.64mx0.81mx1.1m |
| Overall weight(indoor/outdoor) | 3100kg |
| Tire | 380x125mm/ solid |
| Hydraulic oil tank vol. | 14L |
| Hydraulic system tank vol. | 25L |
| Battery | 6Vx4/260Ah |
| Control voltage | 24V DC |
| Power unit | 24V DC , 4.5kw |
| Drive & steer model | 2WD,front-wheel |
| Input voltage of charger | 100~240V AC |

| | |
|---------------------------|--------------|
| Output voltage of charger | 25A |
| Hydraulic system pressure | 24Mpa |
| Brake | 2 rear-wheel |

2、 Drawings of product design



3. Technical Configuration

GTJZ1412 Standard Configurations:

| No. | Items | Producer |
|-----|------------------|------------------|
| 1 | Driving motor | USA WHITE |
| 2 | Brake | USA WHITE |
| 3 | Hydraulic valve | USA Hydraforce |
| 4 | Power unit | China |
| 5 | Battery | USA Trojan |
| 6 | Scissor assembly | SINOBOOM |
| 7 | Platform | SINOBOOM |
| 8 | Chassis | SINOBOOM |
| 9 | Painting | SINOBOOM |
| 10 | Electric system | USA Deltatech |
| 11 | Hydraulic system | SINOBOOM |
| 12 | Pressure sensor | Switzerland Huba |
| 13 | Others | SINOBOOM |

GTJZ1412 Optional configuration:

- 1、 Platform AC power
- 2、 Environmental non-maintenance battery
- 3、 Chassis conduction band
- 4、 Charging cable apply to socket standards from different countries.

4、 Product Feature

General Introduction

Hunan Sinoboom Heavy Industry is always for better access solutions. Among its equipment families, the self-propelling scissor lift is powered by battery, with the operator driving it by the full proportional hydraulic control system like driving a car. With the compact design, some models can pass any narrow gate or door way.

Featured with high stress steel, compact size, big load and good stability, the Sinoboom electrical scissor lift can be driven forward, backward, turning, with the safety alarm indicating when necessary, sending people into the air for working to 13.6m and with 320kg payload.

The CE certificate (applicable for EU area) and Australia Design Registration (for Australia) also verify Sinoboom machines in some terms.

Power System

Imported from Trojan of United State, the capacity of foursome serial batteries can reach to 260Ah, and it can be used about 8 hours under general conditions. There is a battery charger adaptive voltage 100~240v inside the machine and a charging indicator outside. The charging indicator will give a signal when full charge finished.

With the battery meter the user could easily notice the battery volume and the working hour remaining.

Imported electrical motor and electrical motor controller could avoid the current surge and make the entire machine stable and reliable.

Hydraulic System

An open type hydraulic system has applied with explosion prevention strobe and emergency drop switch, making sure that the operator can be lower down safely in case of any emergency. The structure of double lifting cylinder is to keep the stable pressure of system and no impact, the error is small by the inspection of the pressure sensor.

Electric System

Controlled by PLC, the machine could perform more accurate for lifting, moving and turning actions. The protection grades reach to IP65 for the enclosed type

charger and other major electrical components. Using special materials for the platform control cables (7 core), spiral cables for the control box, it is more convenient to operate and remove.

Driving & Steering

The machine is self-propelled with steering function, 2 wheel driving and 2 wheel steering.

The hydraulic oil passes over the controlling strobe cube in order to providing the lifting, driving and steering functions.

Non-marking tire help to prevent the damage to the floor and stuck by the impurities.

Control System

The chassis and platform are both equipped with the ground control and platform control panel.

The ground control provides the lifting feature and the platform control panel provides all functions include lifting, steering, driving and so on.

The one handed proportional joystick made in USA provides flexibility, and can be satisfactory for the operators in many different situations.

By optimizing the control mode and control procedures, the machine operation is more user-friendly on the premise of the assurance of safety and reliability.

The operation procedure is simplified and workable for both indoor and outdoor environment. The machine can work on heeling condition with maximum gradient of longitudinal 3 degrees, lateral 1.5 degrees. The machine could keep moving in high speed. When the pit protection board is not fully open, the moving function of machine is limited, while the platform may continue to rise with sound and light alarm, it is more efficient for working.

Platform Load Capacity

The loading capacity of the platform is up to 227kg.

Platform can be horizontally extended and the extension platform carrying up to 120kg, it is highly expands the working area.

Safety Performance

Equipped with imported level switch, weight sensor and travel switch, controlled by advanced control procedures, the machine is more safety for equipment and workers.

A safety bar has attached on the prong part of the machine, to guarantee the safety of the serviceman while they repairing the machine.

Others

- 1 Equipped with forklift slots and hoisting hole;
- 2 The main components of machine using electrophoretic coating process, it prevents both the internal and external parts from rust;
- 3 The imported special bearings jointing the scissor parts by shaft sleeve are with good lubrication performance and free of maintenance.
- 4 The working platform is made from pattern-steel plate which improves the antiskid effect. The drain hole on the platform prevents ponding.
- 5 the folded guardrail is standard-equipped.

5. Inspection

- I Sinoboom will conduct the inspection as per EN280 standard or special configurations if any;
- I Clients can perform the receiving test as per below guide table:

| Inspection Item | Status | Result |
|---------------------------------|--------|--------|
| ü Overall inspection | | |
| Surface inspection | | |
| Bolts state inspection | | |
| Labels inspection | | |
| Instrumentation inspection | | |
| 2、 Ground control | | |
| Key switch | | |
| Emergency stop switch | | |
| Re-start delay | | |
| 3、 Platform control | | |
| Emergency stop switch | | |
| Re-start delay | | |
| Platform extension | | |
| Scissors raised | | |
| Scissors lowed | | |
| High-speed travel | | |
| Low-speed travel | | |
| 4、 Safety | | |
| Loading test | | |
| Control panel | | |
| Gradeability | | |
| Lock function for scissor raise | | |

6. Warranty policy

1) General Condition

Under normal operating conditions, Sinoboom provides the following warranty service based on that the machines are operated and maintained correctly as per instruction in the Operation and Maintenance Manual.

2) Warranty range

- I Warranty service and parts including: Structure parts, most of the hydraulic parts, most of the electric parts or related system failure which are under correct operation and regular maintenance following the Operation & Maintenance manual.
- I Warranty parts excluding: All wearing parts (Engine filter elements including air/engine oil/diesel oil, hydraulic system filters, cylinder sealing elements, all the fuses, relays, etc.) , failures caused by hydraulic system cleansing.

3) Warranty contents

- I The machine cannot start or use normally by any reasons such as parts problem, design problem or manufacture problem;
- I Any operation failure caused by welding defect;
- I Joystick failure or hydraulic oil leak caused by the manufacturer assembly process;
- I Engine and motors' warranty will follow the parts manufacturers' warranty manual;
- I Any difference which cannot reach an agreements will follow the third party's inspection reports;

4) Other related service

- I Free remote guidance about installation and adjustment for new delivery machine;
- I Periodically inspect the machines condition and instruct maintenance and repair, free within the warranty period and at cost when out of warranty;
- I Free parts replacements for quality claims within the warranty period, and at cost when out of warranty;
- I Long time technical service, maintenance services and training services after warranty period, parts and labor will be at cost;

5) "5+2+1" Warranty period

- I The big structure parts including chassis, turntable, booms, outriggers, telescopic shafts, engine bracket, will be guaranteed five years or operation time add up to 6000 hours, whichever comes first;
- I The complete appliance will be guaranteed one year or operation time add up to 2000 hours, whichever comes first;

- I Detailed guarantees classification and timetable please refer to the list in the sinoboom warranty manual;
- I Warranty period will be calculated starting from the machines arrival at buyers' stock yard;
- I After the warranty period, Sinoboom still offers life-long maintenance, spare parts supply and technical support services with cost charged.

6)Conditions not applied to this Warranty Policy

- I Not following the manuals to operate the machines, nor to maintain the machines periodically;
- I Rebuilt, parts replace or personally repair without Sinoboom aforehand confirmation from Sinoboom;
- I Parts normal wear under daily usage;
- I Usage of parts which are not sinoboom original parts without aforehand confirmation from Sinoboom;
- I Machines are wrongly installed or used, or machines are used under abnormal conditions, or machines are treated with improper parts like fuel oil, engine oil or lubricating oil; event under accident or fire or other force majeure.
- I Continuous operations on the machines even spotted some problems or failures without timely quality claim, which results further damages.

7)Our service promises

- I Our service team is 24 hours available online to receive your quality claims;
- I We will reply your phone call or emails within 2 hours by receiving;
- I For better, faster and exact service, you will have to fill and report your claims under our sheets and related requirements;
- I If any claims about our service, we will quickly react and give you a reasonable response accordingly;
- I Sinoboom reserves the right of final explanation about the above warranty policy;

SINOBOOM CE Certificates - For European market

Client: Hunan Sinoboom Heavy Industry Co., Ltd.
278 Renxin Road,
Changsha,
Hunan,
P.R.China

SGS United Kingdom Limited
Unit 10
Sovereign South Industrial
Estate
Sovereign
Dartford
DA9 5AD

CERTIFICATE OF ADEQUACY
Page 1 of 1

SGS Reference: CDT138943/MP
Date of Issue: 17th May 2016
Product description: Electric chain hoist
Model Type: GTJZ 06, GTJZ 08, GTJZ 10

Assessment Performed: Assessed for compliance with the requirements of Annex VI of the Machinery Directive 2006/42/EC (Annex VI)

Conclusion: In the opinion of SGS the submitted technical file as assessed as OUCS 12108 satisfied the requirements of the Machinery Directive 2006/42/EC.

Issue No: 1 **Valid until:** 16th May 2018

Authorized Signatory:
F. Huggins
F. Huggins
Principal Test Engineer

CE

SGS PAPER
10063018

Client: Hunan Sinoboom Heavy Industry Co., Ltd.
278 Renxin Road,
Changsha,
Hunan,
P.R.China

SGS United Kingdom Limited
Unit 10
Sovereign South Industrial
Estate
Sovereign
Dartford
DA9 5AD

EC TYPE EXAMINATION CERTIFICATE
Page 1 of 1

SGS United Kingdom Ltd is a notified body approved by the DTI under the Machinery Directive 2006/42/EC
Certificate No: 99C 140
Approval Number: 0053

Date of Issue: 17th May 2016
Product: Electric chain hoist
Model Type: GTJZ 06, GTJZ 08, GTJZ 10
Manufacturer: Hunan Sinoboom Heavy Industry Co., Ltd.
Date of Issue: 17th May 2016
Technical file reference No.: OUCS1010
Assessment Performed: Type examination with reference to: Conformity to Annex II and Annex I, the Essential Health and Safety Requirements of the Machinery Directive 2006/42/EC section 1
Standards referenced: EN 280:2001+A2:2009; EN ISO 14121:1:2007
Conditions Subject to Issue: Assessment of information contained in Technical File OUCS1010 and referenced against file CDT138943/MP
Conclusion: In the opinion of SGS the submitted technical file satisfies the requirements of the Machinery Directive 2006/42/EC

Issue No: 1 **Valid until:** 16th May 2018

Authorized Signatory:
F. Huggins
F. Huggins
Principal Test Engineer

CE

SGS PAPER
10063018

Client: Hunan Sinoboom Heavy Industry Co., Ltd.
278 Renxin Road,
Changsha,
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P.R.China

SGS United Kingdom Limited
Unit 10
Sovereign South Industrial Estate
Sovereign
Dartford
DA9 5AD

CERTIFICATE OF COMPLIANCE
Page 1 of 1

SGS Reference: CDT138943/MP
Date of Issue: 17th May 2016
Product description: Electric chain hoist
Model Type: GTJZ 06, GTJZ 08, GTJZ 10
Assessment Performed: Assessed for compliance with the requirements of Annex VI of the Machinery Directive 2006/42/EC (Annex VI)

Conclusion: The submitted sample was found to comply with the test specification 1999234 to 2006/42/2004 LVD therefore deemed to offer the degree of safety required by the Electrical Equipment (Safety) Regulations 2004, (UK implementation of Directive 2006/95/EC).

Issue No: 1 **Valid until:** 16th May 2018

Authorized Signatory:
F. Huggins
F. Huggins
Principal Test Engineer

CE

SGS PAPER
10063018

SINOBOOM ADR Certificates- For Australia & New Zealand market



SINOBOOM GOST-TR3 Certificates – For Russia

| РОССИЙСКАЯ ФЕДЕРАЦИЯ СЕРТИФИКАТ СООТВЕТСТВИЯ (обязательная сертификация) | |
|---|---|
| № <u>C-CN.AG75.B.21950</u> <small>(номер сертификата соответствия)</small> | ТР <u>1664341</u> <small>(учетный номер бланка)</small> |
| ЗАЯВИТЕЛЬ Hunan SINOBOOM Heavy Industry Co.,Ltd. Адрес: 27# Nan'er Rd, Economic & Technical Development Zone, Changsha, Hunan, China 410100, Китай. Телефон 0086 731 87116500, факс 0086 731 87116516. <small>(наименование и место нахождения заявителя)</small> | |
| ИЗГОТОВИТЕЛЬ Hunan SINOBOOM Heavy Industry Co.,Ltd. Адрес: 27# Nan'er Rd, Economic & Technical Development Zone, Changsha, Hunan, China 410100, Китай. <small>(наименование и место нахождения изготовителя продукции)</small> | |
| ОРГАН ПО СЕРТИФИКАЦИИ ООО «ПродМашТест». 127015, Москва, Бумажный пр., 14, стр. 1 <small>(наименование и место нахождения органа по сертификации)</small> Телефон/факс: (495) 7634799/(495) 7634799. ОГРН: 1117746593557. Аттестат рег. № РОСС RU.0001.11AG75 выдан 28.10.2011г. Федеральным агентством по техническому регулированию и метрологии. ПОДТВЕРЖДАЕТ, ЧТО Подъемники с рабочими платформами самоходные, моделей : GTJZ06, GTJZ08, GTJZ10, GTJZ12, GTJZ16, GTZZ14E, GTZZ15, GTZZ15J, GTZZ18, GTZZ25, GTBZ20, GTBZ22, GTBZ25, GTBZ26, GTBZ27, GTBZ28, GTBZ30, GTBZ32, GTBZ36, GTBZ38, GTBZ40, GTBZ42. Серийный выпуск. <small>(наименование и место нахождения изготовителя продукции)</small> | |
| | код ОК 005 (ОКП) 48 3700 |
| СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ Технический регламент в безопасности машин и оборудования (Постановление Правительства РФ от 15.09.2009 N 753) <small>(наименование технического регламента (технических регламентов), на соответствие требованиям которого (которых) проводится сертификация)</small> | |
| | код ЕКПС код ТН ВЭД России 8428 90 909 0 |
| ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ протокол исследований № 66918-48 от 13.02.2013 г. Испытательная лаборатория ООО «ПродМашТест», рег. № РОСС RU.0001.21AB79 от 28.10.2011г., адрес: 127015, Москва, Бумажный пр., 14, стр.1 <small>(наименование и место нахождения испытательной лаборатории)</small> | |
| ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ <small>(наименование представленных заявителем в орган по сертификации в качестве доказательств соответствия продукции требованиям технического регламента (технических регламентов))</small> | |
| СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с <u>14.02.2013</u> по <u>13.02.2016</u> | |
|  | Руководитель <small>(заместитель руководителя)</small> органа по сертификации <small>(подпись, инициалы, фамилия)</small> Мыльцев В.В. |
| | Эксперт (эксперты) <small>(подпись, инициалы, фамилия)</small> Чугунов А.А. |

8. SINOBOOM PHOTOS

Assemble workshop glance



GTJZ0408S/0608S-GTJZ0608/0808-GTJZ1012/Z1212 group show



GTJZ1012E for shopping mall external cleansing



GTJZ0608 for facility maintenance



GTJZ0808 for construction jobsite



GTJZ1212 In warehouse for goods sorting



GTJZ10 for outdoor advertisement



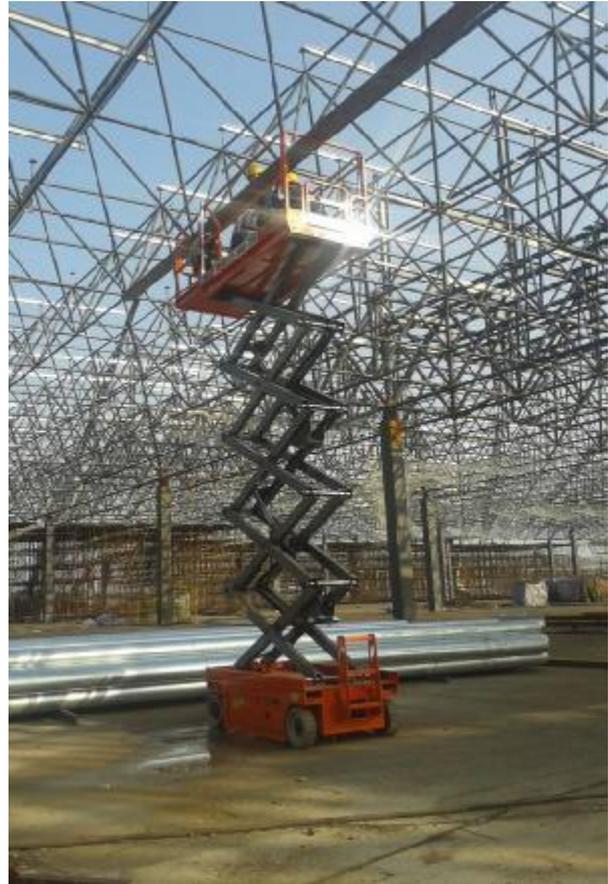
GTJZ10 being used in Ukraine Airport



GTJZ0808 working for store decoration



GTJZ1012 / GTJZ1212 working for FAW-Volkswagen Automobile new facility



2014 Shanghai BAUMA Exhibition

