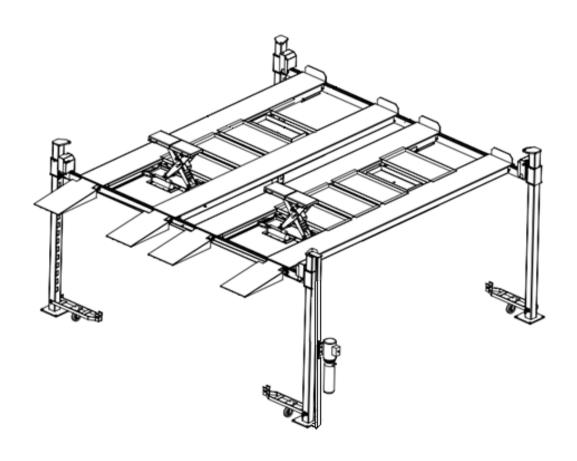


Movable 4-COLUMN SIDE BY SIDE PARKING LIFT

Model: Goliath XIt



Installation & Operation Manual

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Safety Cautions

1.1 Important statements

Please do note the tonnage mark on the machine. Do not try to lift any load that exceeds the rated lifting capacity.

Please read this manual carefully before installation and use of the lift, to avoid any property loss or personal injury caused by faulty operation.

No one is allowed to modify the control part and other mechanical parts of the machine without the manufacturer's permission.

1.2 Instructions for qualification of operators and users

- 1.2.1 Only personnel who have received professional training are allowed to operate and use the lift.
- 1.2.2 Electrical connection must be performed by qualified electricians.
- 1.2.3 Nonprofessionals shall not approach the lifting area.

1.3 Cautions

- 1.3.1 Do not install the lift on asphalt or tar ground. Concrete thickness must meet requirement.
- 1.3.2 Please read and understand Safety Cautions carefully before operation of the lift.
- 1.3.3 The lift shall not be used outdoor if not being customized to special requirements.
- 1.3.4 Hands and feet shall be away from moving parts of the lift. Move hands and feet away when the machine is descending, to avoid being crushed.
- 1.3.5 Only personnel who have received professional training are allowed to operate and use the lift.
- 1.3.6 Operators are not allowed to wear fat and loose clothes, to avoid being clamped by any moving part when the machine is descending or rising.
- 1.3.7 Ground around the lift must be kept clean and tidy, with no stacking of materials, in order to avoid accident.
- 1.3.8 The lift is designed to lift the entire car, not part of it. Do not try to lift any car beyond the rated lifting capacity.
- 1.3.9 Do make sure the safety lock of the lift is locked when personnel are working undercar.
- 1.3.10 Lifting block of the lift must be put at a place suggested by the car manufacturer, and then the car shall be lifted slowly. Check the car is stable without any risk of tipping, overturn or falling, before lifting it to the desired height.
- 1.3.11 Check whether any part is broken and check synchronicity of the machine and flexibility of moving parts at any time. Perform regular maintenance. Once any anomaly is detected, stop use immediately and contact your dealer.
- 1.3.12 Please lower the machine to the lowest position and turn off power after operation.
- 1.3.13 It is not allowed to modify any part of the lift without the manufacturer's permission.
- 1.3.14 If the machine is to stand idle for a long period of time, the user shall
 - a. Turn off power;
 - b. Drain off hydraulic oil;
 - c. Lubricate moving parts with hydraulic oil.

Note: Do not drain liquid at random, in order to protect environment.

1.4 Safety signs



1.5 Noise standard

The lift makes noises less than 75dB. For your health, it is suggested to provide a noise meter in your operating area.

1.6 Training

Only personnel who have received professional training are allowed to operate and use the lift. We take pleasure in helping you if the manufacturer's professional training is needed.

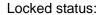
Introduction of Product

2.1 Product description

This lift is a mobile parking lift. Its main parts include columns, tracks, movable brackets, oil cylinder and power unit.

When the power unit is powered, gear pump starts to work. Hydraulic oil pushes cylinder rod up, pulling steel cable and hence raising tracks. During lifting, safety rack engages with safety lock automatically to make sure that no falling is caused by possible faults of the hydraulic system. This lift is provided with a 24V safety electric control system for the protection of operator safety.

Safety structure chart:



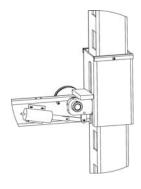


Fig. 1

Unlocked status:

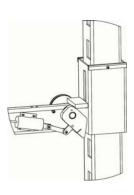


Fig.2

2.2 Technical parameters

| Model | Rated lifting capacity | Lifting time | Lifting range | Power supply |
|-------|------------------------|--------------|---------------|--------------|
| | 10000 LBS | 50 Sec | 85" | |

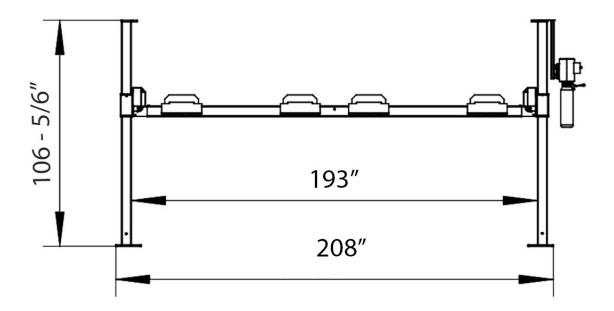


Fig. 3

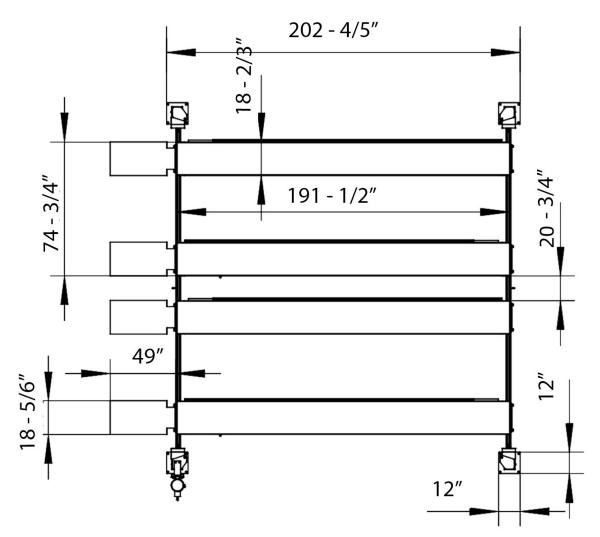


Fig. 4

2.3 Main structure chart

- 1: Control case mounting bar
- 2: Manual lock-release handle
- 3: Power unit / Motor pump
- 4: Main platform
- 5: Wheel rack
- 6: Offside platform
- 7: Column and cap
- 8: Cross beam
- 9: Approach ramp

Option accessories:

- 10: Plastic oil pan
- 11: Tool tray
- 12: Rolling jack

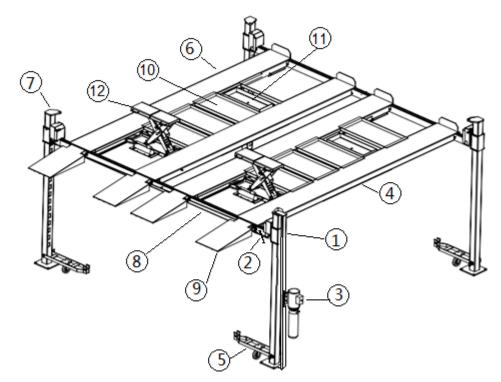


Fig. 5

Installation Instructions

3.1 Preparation before installation

- 3.1.1 Installation tools and lifting equipment
 - Two open-end wrenches (17-19),
 - 20 inch adjustable wrenches
 - One 5mm screwdriver
 - 12L46# anti-wear hydraulic oil
 - · One 1ton lifting equipment
 - · One measuring tape, one chalk
- 3.1.2 Check against Packing List Attachment 1 (Packing List of Entire Machine)

Unpack the package and check whether the parts are complete against Attachment 1 (Packing List of Entire Machine). Contact your dealer or the manufacturer immediately once any omission is detected. SCOOR and the dealer will not take any responsibility for and solve any problem for free, if any missing part is detected but the machine is still installed with the missing part unresolved.

3.1.3 Requirements for ground

This lift must be installed on flat and solid concrete ground, with the concrete strength being above 3000psi and the thickness being 200mm or greater, Within whole area the flatness error being less than 5mm. Newly poured concrete shall be cured for more than 20 days in dry condition without direct exposure to sunshine.

3.2 Cautions for installation

- 3.2.1 Conduits and electric wires must be connected correctly, to avoid oil leakage and loosening of wires.
- 3.2.2 All the bolts must be tightened.
- 3.2.3 No car shall be put on the machine during trial run.

3.3 Installation procedures

Step 1: selection of a proper installation site

This lift shall be installed indoor. It shall be installed on solid concrete ground, not on any expansion joint of cement ground. It must not be installed on the second or higher floor, without permission of relevant building personnel.

Step 2: determination of layout

When installation site is selected, mark positions of four columns with a measuring tape and a chalk and make sure two diagonal lines equal each other. See the following drawing (Fig.6)

The space from column to wall must be kept as more than 800mm for safe walking.

space ≥800mm space ≥800mm

7382 7382

main column w. control case space ≥800mm

space ≥800mm

Fig. 6

Step 3: Unloading and unpacking (Fig. 7-10)





Fig. 7





Fig. 9

Step 4: installation of column and cross beams (Fig. 11- 24)





Fig. 10

Fig.11







Fig. 13 Fig. 14

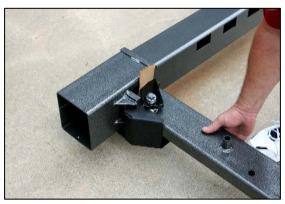




Fig. 15









Fig. 18



Fig. 19



Fig. 20





Fig. 21 Fig. 22



Fig. 23

Step 5: installation of platforms (Fig. 25-30)



Fig. 24



Fig. 25



Fig. 26





Fig. 28



Fig. 29



Fig. 30

Step 6: installation of steel cable (Fig. 31-35)

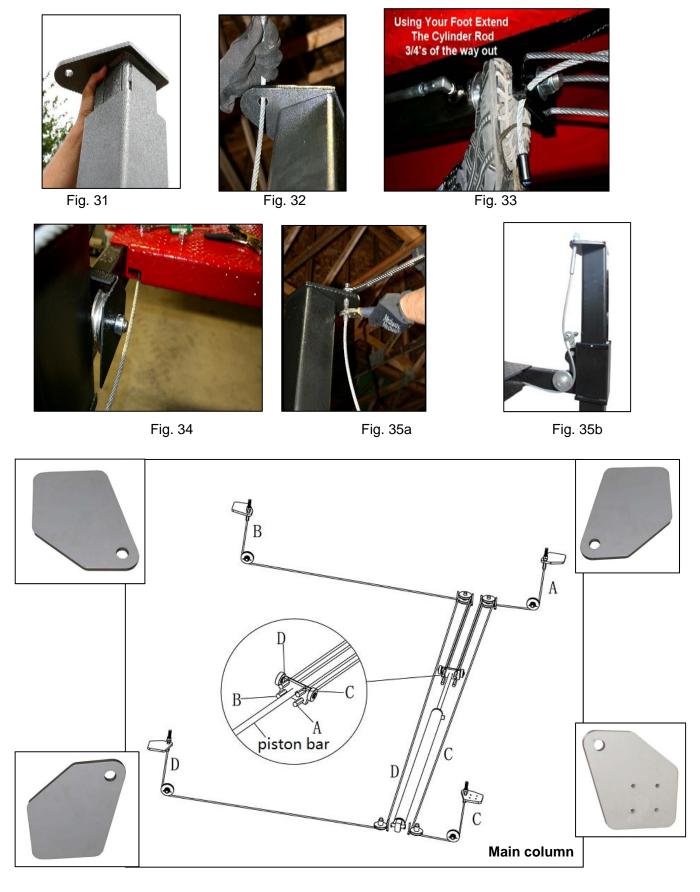


Fig. 36

Step 7: Installation of safety lock-release device (Fig. 37-38)

Mount on the items on the crossbeam as Fig. 23 -- Fig. 25

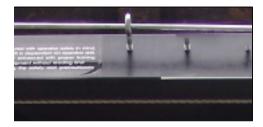


Fig. 37





Fig. 38b



Fig. 38c

Fig. 38a

Step 8: Motor pump & connecting

Fix the motor pump mounting bar on the main column by bolts and screws. It can be on the side or in the front.

Then mount the motor pump and the control case on the bar by bolts and nuts also.

Fill 12L HM46# anti-wear hydraulic oil into the oil tank.

Note: only fill up the tank while the platforms on at lowest / floor position

Connect the hydraulic hose from motor pump to cylinder under main platform through a fitting.



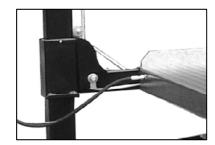


Fig. 41



Fig. 39

Step 9:Power hooking:

Power supply: 240V, 50Hz, single phase, 15A.

Fig. 40

Make the Electrical hookup to the power control case (240V Single Phase). It is recommended that a 240 Volt, 15Amp twist lock plug be installed in the power line just ahead of the power control case. Size wire for 20 amp circuit.

Warning: the wiring must comply with local code. Have a certified electrician make the electrical hook-up

to the power control case and motor pump. Protect each circuit with time delay fuse or circuit breaker 240V single Phrase, 50 Hz 15 Amp. Motor cannot run on 60hz without a physical change to motor.

Step 10: steel rope tension adjusting

Note: the four locks must be at same height while doing this.

After the four safety locks totally rest on the same height, (if not, loose the steel rope nut on the column top), turn the nut on the column top to shorten the rope on each column so that the tension of the ropes are almost same. Please keep the lock still rest on the rack (It is about to leave the rack but not).

Step 11: trial running (the machine must be unloaded)

Turn on the power switch on the electric control box and press the UP lifting button until the steel ropes are tensioned. Then release the button. It is very important to check whether all of 4 steel ropes stay within the rope groove at this moment.

Then press the UP button again until the machine rises to the highest position. It shall be stopped by the upper limit switch. If not, please adjust the angle of the touching bar on the switch to make it working.

While rising, the locks will knock the columns making 'Clang-Clang' noise. It is normal that the sound may not synchronous. It depends on the leveling of the ground and the tension on each rope.

Press the LOCK button. The locks will rest on the racks of the columns. (Note: at the max. height, always press LOCK before press DOWN to protect the hydraulic system)

Then press DOWN button. The lift will go up for several seconds then lower down by gravity until the DOWN button is released. In the lowering, pay attention to the locks, until the machine descends to the lowest position.

While the platforms near the ground, the lower switch will be touched and make warning beeps. If not, adjust the touching bar on the lower switch to make it work.

Note: If any lock does not released before going down, the platforms will not be leveling. Try to prolong the time delay in step of 0.5 second until all locks released before platforms moving down.

3.4 Last check

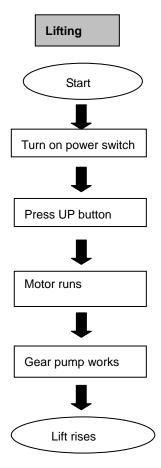
- a. There must be no oil leakage in the hydraulic system including motor pump, valves, hose, cylinder and all connections.
- b. Steel cable nuts must be tightened and locked on the column top.
- c. All electric wiring / connection are perfect.
- d. The platforms are leveling. (Note: this is depended on the floor and cable adjusting)

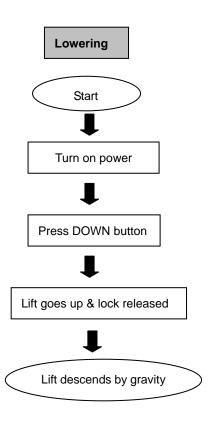
Operation Instructions

4.1 Cautions for operation

- 4.1.1 All the conduit connections shall be checked. Operation may not be performed unless it is confirmed that there is no oil leakage.
- 4.1.2 Operation is not allowed where safety device is faulty.
- 4.1.3 Check whether the center of gravity of the car to be lifted is at the center of the lifting platform. If not, please adjust the center of gravity before lifting.
- 4.1.4 In the lifting/lowering process, operators and all the other relevant personnel shall stand within safe areas.
- 4.1.5 When the platform is raised to the desired height, operators shall turn off power when leaving the control box, to avoid faulty operation by other personnel.
- 4.1.6. Make sure the safety lock of the lift is locked before personnel operate under car. Make sure nobody is under the car before lifting/lowering operation.

4.2 Operation flow chart





4.3 Operating procedures

WARNING: Read and understand the operation instructions before operating this machine

Raising a vehicle:

- 1. .Drive a car through the ramp on the platforms. Then stop it in the middle of the platform. Pull parking brake (It is better put some wood to block the wheel).
- 2. Press the UP button to raise the car a small distance above the ground. Then check the status of the car again.
- 4. Lift the car to the desired height. Press LOCK button and press down the emergency stop switch. Power light goes out.

Lowering the lift:

- 1. Turn on emergency stop button to make the control box be powered.
- 2. Press DOWN button to lower the platform.
- 3. Drive the car off after the lift descends to ground.

Moving the lift:

Note: only lift itself allow to be moved by the wheels. No load is permitted on the lift while moving.

- 1. Empty the lift by driving away the vehicle.
- 2. Lift up the platforms to two feet high.
- 3. Mount on the wheel racks.
- 4. Lower down the platforms till the cross beams rest on the wheel racks and the column leaving the ground.
- 5. Push the columns to move the lift to new position.
- 6. Rise up the platforms again.
- 7. Take away the wheel racks.
- 8. Lower down the platforms to ground.

Faults and Solutions

Note: If you could not troubleshoot any fault, please ask the manufacturer for help. We will help you solve the problem as soon as possible. Provision of relevant information and photos of the fault allows the manufacturer to solve the problem faster.

| Fault | Reason | Solution | |
|-----------------------------|---|--|--|
| | Electric wire connection is poor. | Check and connect wires correctly. | |
| Motor does not run and | Wires are broken and motor is burned. | Replace the motor. | |
| lift does not work. | Wires are broken. Limit switch works poorly or is | Connect wires correctly. Adjust or replace limit | |
| | damaged. | switch. | |
| | Motor reverses. | Correct electric wire connection. | |
| | Overflow valve is loose or blocked. | Adjust or clean overflow valve. | |
| Motor rotates but lift does | Gear pump is broken. | Replace gear pump. | |
| not work. | Hydraulic oil is insufficient. | Add hydraulic oil. | |
| | Oil suction pipe is loose or drops. | Tighten oil suction pipe. | |
| | Buffer valve is loose or blocked. | Tighten or clean buffer valve. | |
| | Check if there is oil leakage at any conduit. | Replace conduit. | |
| | Cylinder is sealed poorly. | Replace seals. | |
| Slow unloading occurs | One-way valve is sealed poorly. | Disassemble, clean, resolve, or replace | |
| after lifting. | Overflow valve works poorly. | Disassemble, clean, resolve, or replace | |
| | Manual unloading valve or electromagnetic unloading valve works poorly. | Disassemble, clean, resolve, or replace | |
| | Filter clogs up. | Clean, resolve, or replace | |
| | Oil pressure is mixed with air pressure. | Add hydraulic oil. | |
| Slow lifting | Overflow valve is not well adjusted. | Adjust. | |
| | Hydraulic oil turns hot (above 45°). | Replace hydraulic oil. | |
| | Seals of cylinder are worn out. | Replace seals. | |
| | Throttle valve for lowering is blocked by obstacle. | Clean, resolve or replace. | |
| Olavy Iv | Hydraulic oil is not clean. | Replace hydraulic oil. | |
| Slow lowering | Explosion-proof throttle valve is blocked by | Replace explosion-proof throttle valve. | |
| | There is obstacle in conduit. | Replace conduit. | |

Maintenance Instructions

Simple routine maintenance at low cost can ensure normal operation and safety of the machine. The frequency of routine maintenance may be determined on the basis of the frequency suggested as below and according to operating environment and times of the lift.

6.1 Items to be checked before operation every day

Operators must perform inspection before operating the machine. It is very important to check safety lock, which must be checked every day. Inspection in advance prevents serious loss, waste of time and personal injury.

- . Check the locked status of the mechanical safety lock before and during operation.
- . Check connection and possible leakage of hydraulic hose and connection.
- . Check electric connection.
- . Check whether anchors are tight.
- . Check connection of lifting / lowering brackets.

6.2 Items to be checked weekly

- . Check flexibility of moving parts.
- . Check conditions of safety parts.
- . Check volume of hydraulic oil by pressing the lifting button to raise the platform to the highest position. If it fails to reach that position, hydraulic oil in the oil tank is insufficient and shall be added.
- . Check whether anchors are tight.

6.3 Items to be checked monthly

- . Check whether bolts are tight.
- . Check sealing of hydraulic system. If oil leakage is detected, tighten the joint.
- . Check lubrication and wear of parts that need lubrication. Once any damage is detected, replace the damaged part promptly.

6.4 Items to be checked yearly

- . Drain the oil tank off to check status of hydraulic oil.
- . Check lubrication and wear of parts that need lubrication. Once any damage is detected, replace the damaged part promptly.

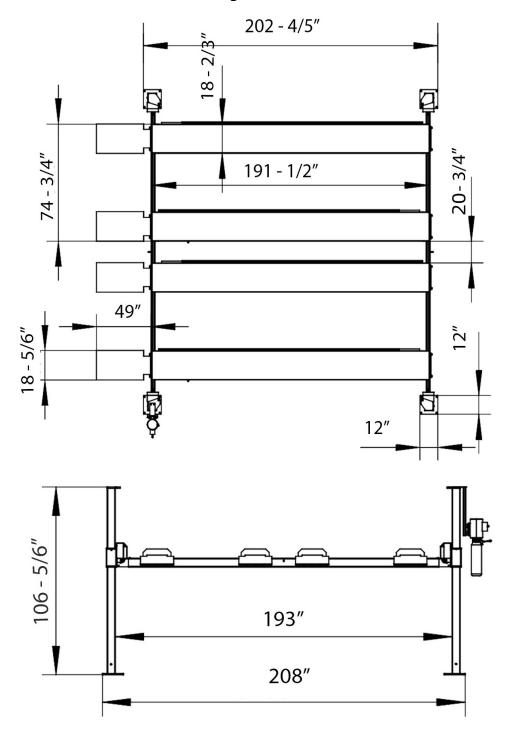
Warning: If the machine is maintained in strict accordance with the aforesaid requirements, the machine will be in normal working conditions all the time and most of accidents can be avoided.

Attachments

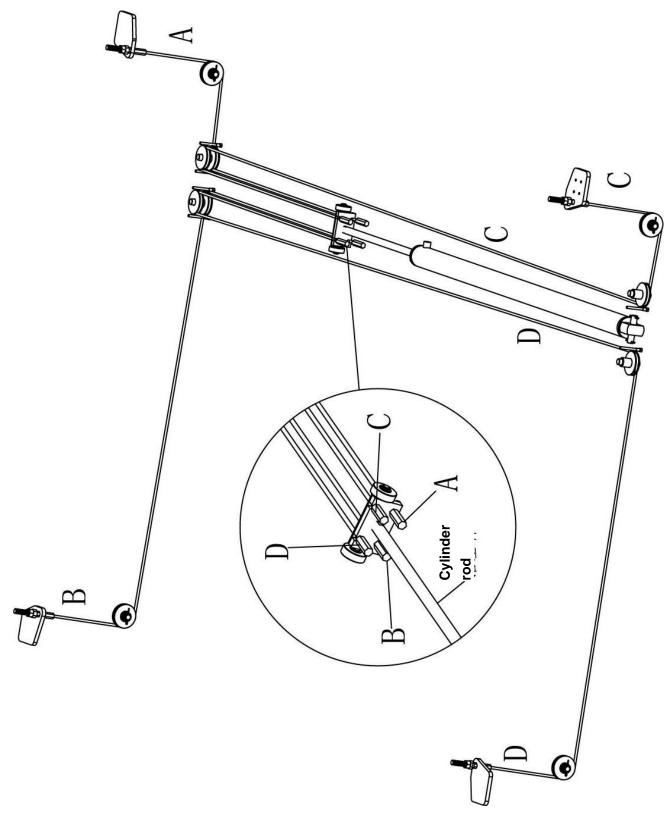
Attachment 1 - Packing List of Entire Machine

| 1 | Parking lift | 9XLE | Component | 1 |
|---|--------------------------|------|---------------|---|
| 2 | Carton box of power unit | | Standard part | 1 |

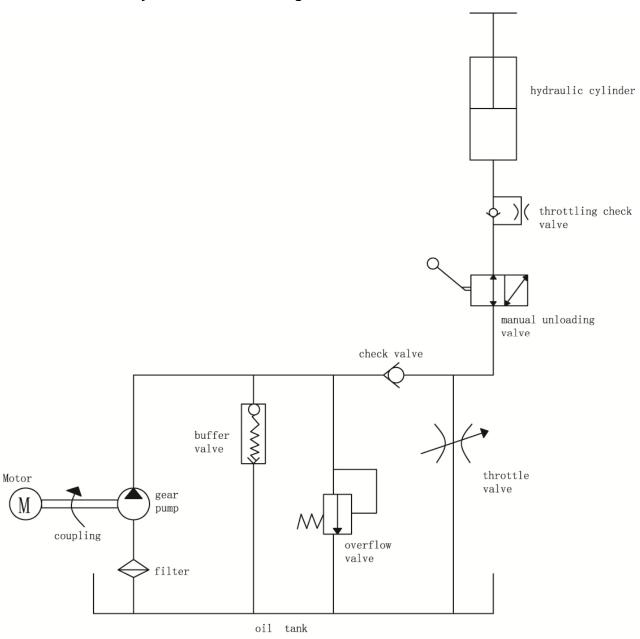
Attachment 2– Overall Dimension Drawing



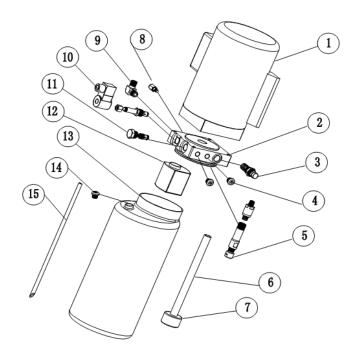
Attachment 3 –Winding Pattern of Wire Rope



Attachment 4 - Hydraulic Schematic Diagram



Attachment 5- Exploded View of Pump Station



| S/N | Name | Quantity |
|-----|---------------------------------|----------|
| 1 | Motor | 1 |
| 2 | Hydraulic valve board | 1 |
| 3 | Overflow valve | 1 |
| 4 | Plug | 2 |
| 5 | Buffer valve | 1 |
| 6 | Oil suction pipe | 1 |
| 7 | Filter | 1 |
| 8 | Throttle valve | 1 |
| 9 | Conduit joint | 1 |
| 10 | Electromagnetic unloading valve | 1 |
| 11 | One-way valve | 1 |
| 12 | Gear pump | 1 |
| 13 | Oil tank | 1 |
| 14 | Oil tank cover | 1 |
| 15 | Return oil pipe | 1 |

Attachment 6 - Exploded View of Machine

