

# FLOOD PREVENTION CHAPTER



## Flood Control Toolkit

No.: FXWZ-01

### Scope of use

Suitable for flood rescue, water

### Technical parameters

1. Flood control toolkit contains hammer, axe, crossaxe, hand saw, shovel, hoe, life jacket, life rope, raincoat, rain shoes, torch, machete, kettle, safety belt, towel, scrubbing set and so on.



## Thrower

No.: FXWZ-02

### Scope of use

Suitable for flood rescue and water rescue occasions.

### Technical parameters

1. Inflatable once can be used 4-6 times to speed up the rescue efficiency.
2. Working pressure: 8.5MP, weight 7.5KG (net weight without base), projectile quality 1.8KG
3. Throwing distance: water use throwing automatic inflatable lifebuoy distance  $\geq 210$  meters, land use throwing distance up to 250 meters
4. Throwing rope specification:  $\phi 3\text{mm} \times 250/210/150\text{M}$



# FLOOD PREVENTION CHAPTER



## Cowtail Rope

No.:FXWZ-03

### Scope of use

Suitable for flood rescue and water rescue.

### Technical parameters

1. water rescue ox-tail rope, mainly used for professional water rescue, assembled in PFD (professional rescue lifejacket) on the haul rope, with O-ring and professional buckle on both ends, the webbing has good tensile strength and ductile effect built-in high-strength rope, greatly enhanced tensile performance in the event of an emergency, lifejacket can be quickly separated from the ox-tail rope, to protect personal safety!



## Lifeline

No.:FXWZ-04

### Scope of use

Suitable for flood rescue and water rescue.

### Technical parameters

1. Specification: diameter 16mm length 100 meters (customized)
2. Both ends with a safety buckle, the structure of the sandwich rope load-bearing part of the continuous fiber material made of double braided, rope skin rope core is the same material, the outer skin contains two strands of light-emitting fibers
3. Head breaking strength  $\geq 27000\text{N}$ , light weight can float in the water surface.



## Surface Floating Lifeline

No.:FXWZ-05

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical parameters

1. Floating rope diameter of 10mm using polypropylene chemical fiber silk weaving production, when put on the water surface rope can float above the water surface, colorful and easy to save lives
2. Tensile strength 250-1000KG, the rope has the advantages of strong tensile strength, can float, etc., each root is 50 meters long. Also equipped with: floating ring or float or safety hook (according to the user's needs)

## Water Rescue Rope Throwing Bag

No.: FXWZ-06

### Scope of use

Suitable for flood rescue and water rescue.

### Technical parameters

- 1 built-in diameter of 8 high meters, the length of 30 meters of water rescue floating ropes
2. Rope material for polymer polypropylene, breaking load of 8KN
3. The rope can float on the water with eye-catching color.
4. The outer sound of the rope bag is made of Cordura® nylon fabric with good abrasion resistance.
5. The center of the rope bag is made of mesh, which can accelerate drainage and drying.
6. Reflective tape on both sides of the mesh for easy identification in low visibility conditions.
7. With buoyant cotton inside, the rope bag can float on the water.
8. The top of the net is designed to facilitate smooth casting movements and easier filling.
9. Plastic webbing buckle at the top for tightening the opening and attaching a safety hook.
10. Side mounting for glow sticks.



## Water rescue full helmet (no rails)

No.:FXWZ-07

### Scope of use

suitable for flood rescue, water rescue occasions.

### Technical parameters

1. standard model: length 50cm (extension length 85cm)

# FLOOD PREVENTION CHAPTER



**Water rescue  
full helmet (no rails)**

**No.: FXWZ-08**  
**Scope of use**

Suitable for flood rescue and water rescue occasions.



**Lifebuoy**

**No.: FXWZ-09**  
**Scope of use**

Suitable for flood rescue, water rescue occasions.

#### **Technical parameters**

1. Outer diameter: 710mm
2. Color: orange
3. Inner diameter: 440mm
4. Weight: 2.5kg
5. Reverse reflector area: 200cm<sup>2</sup>
6. Handle Diameter: 9mm
7. Buoyancy: 14.5kg
8. Other requirements: buoyancy quality, floating more than 24h, tensile strength, hanging 90kg weight for 30 minutes without permanent deformation of the ring body
9. With CCS China Classification Society certification



**Water Life Jacket**

**No.: FXWZ-12**  
**Scope of use**

used for firefighters and rescue personnel to protect themselves during rescue in the water.

#### **Technical Parameters**

- 1, this water rescue rapids life jacket using NBR buoyancy foam, can produce  $\geq 150N$  buoyancy. Tested  $> 90KG$  adults can get enough upward floating force (can be used as a two-person buoyancy equipment in his rescue work)
2. this product is a torrent rescue life jacket, after careful design can basically deal with all water conditions; suitable for users with chest circumference of 75 to 145 cm. 8 adjustable fastening straps can ensure that the user is comfortable and stable, the upper and lower parts of the chest are equipped with buckles to prevent the lifejacket from falling off and reserved for the 6 external D-type connection account
3. Vest design, a #10YK plastic steel open zipper on the chest placket, and the use of plastic puller buoyancy piece fixed in the fabric sandwich, 39 sewing knot reinforcement and 500D material can be lifted tear-resistant fabric, tear resistance is greater than 1,250N, fabric coated with PU waterproof coating, so that the user of this case of life jacket can cope with any complex rescue environment.
4. Lifejacket designed with underarm belt device and crotch fixation belt, must avoid the lifejacket floating problem, modular design, all the pockets of the lifejacket (front 2 back 1) are designed to be quickly disassembled for quick drainage pockets, which can be equipped with different rescue tactical tools (dive knife, walkie-talkie, strobe light, locator light, etc., and can be stored with the same volume of simple items).
5. Two sets of Velcro hand surfaces are sewn on the outside of the back large-capacity pockets, which can support the user to choose the customization needs of LOGO.
6. Four front square hanging points and four universal tactical hanging points on the chest and shoulder. Velcro allows users to use and fix knives, life jacket lights whistles or other things are handy, equipped with two and more flashlight fixing points collar design plastic drag handle, to ensure that the user is rescued in the process of rapids rescue emergency safety drag force, and in the front and back of the PFD shoulder a total of 10 stitched SOLAS marine standard high brightness reflective tape, so that at night or light the PFD has a total of 10 SOLAS marine standard reflective strips sewn on the front and back shoulders to improve visibility at night or in dark places.
7. Lower pile with attachment points for leg straps to prevent the lifejacket from being washed off by water currents.
8. In the floating position, the human mouth can be 120MM above the water surface.
9. Plastic parts are imported thickened and high elastic parts YKK UTX.



**Life jackets**

**No.: FXWZ-10**  
**Scope of use**

Suitable for rafting and stream tracing, ship life-saving, water rescue.

#### **Technical parameters**

1. Buoyancy: 75N
2. Buoyancy material: polyethylene foam
3. Plastic color: orange
4. Characteristics: zipper type in the water after 24 hours of immersion, the loss of buoyancy should be less than 5%.
5. With CCS China Classification Society certification



**Life jackets**

**No.: FXWZ-11**  
**Scope of use**

Suitable for rafting and stream tracing, ship life-saving, water rescue.

#### **Technical Parameters**

1. Buoyancy: 75N
2. Fabric 300D polyester elastic silk buoyancy
3. Material: EPE foam material
4. Color: orange-red
5. Features: Zipper type + buckle belt in the water after 24 hours of immersion, the loss of buoyancy should be less than 5%
6. With CCS China Classification Society certification



# FLOOD PREVENTION CHAPTER

## Wet Water Rescue Suit

No.: FXWZ-13

Scope of use

for firefighters and rescue personnel in the water rescue self-protection.

### Technical parameters

1. Split two-piece wet rescue suit body made of Taiwan imported super elastic cloth composite fabric: cuffs, legs, chest with Japan YKK zipper, pants, cuffs zipper to facilitate the opening of the opening to wear off convenient: pants waist with adjustable webbing to adjust the elasticity plus plastic steel buttons
2. main body red/black: lined with fleece super elastic fabric, easy to keep warm; outside super elastic fabric, elasticity can reach more than 2.5 times, very comfortable to wear; horizontal and vertical elasticity is very strong, the human body will not have a sense of constriction; cuffs, cuffs, pants light leather O processing, water is not easy to enter the warmth of the effect is very good: in the cuffs, shoulders, hips use wear-resistant materials, increasing the strength of the clothes: cuffs to increase reflective band The reflective tape on the cuffs increases the reflective effect at night
3. arm printing RESCUE reflective word: pants waist using 4CM wide five fixed fat shore fixed belt: pants right leg side of a nylon cloth three-dimensional pockets, the bottom of the 2 drainage holes pants front gear open a urinal, Velcro fastening: split design is more convenient to wear off and use for the masses of the crowd use
- 4 wet suit fabric strength 150N, seam strength 100N
- 5 the fabric of wet suit after 2000 times of cycle friction, the specimen is not worn through the wet suit reinforcing material after 6000 times of cycle friction, the specimen is not worn through
- 6 wet suit fabric under hydrostatic pressure 100kPa after 5min, the specimen does not appear water droplets leakage
7. Weight <1.8kg



## Flood Relief Clothing (Quick Dry Waters Teaching Aid Clothing)

No.: FXWZ-14

Scope of use

for firefighters and rescue personnel in the water rescue self-protection.

### Technical parameters

1. rescue clothing fabric is nylon double fabric, set wear-resistant, sweat-absorbent, quick in three kinds of protection in one
2. The color is orange-red, reflective strips for perforated reflective strips
- 3, suitable for floods, rivers, lakes, water rescue, narrow space and climbing and other rescue site body protection
4. With lightweight, cool, oil and water resistance, wear-resistant, four-side elasticity, color and logo eye-catching performance surface 5 summer Taslon double line grid parameters: yarn weaving 160D \* 70D, density 210T, grams 167 (g / m)
6. Composition: 97% polyurethane fibers, spandex 3
7. Fabric properties: quick-drying, moisture wicking, elasticity, wear-resistant, colorfastness
8. Reflective marking tape (thermal stability): at a temperature of (180±5)°C, after 5min, the surface of the reflective material is not alkalized, shedding phenomenon
9. Retro-reflective number is not less than 500cd.
10. Fabric: summer taslon double line grid parameters: yarn 160D70D, density 210T, grams 167 (g/m) Composition: polyurethane fibers 97
11. spandex 3% fabric characteristics: quick-drying, moisture wicking, elastic, wear-resistant, colorfast



## Wet Water Rescue Suit

No.:FXWZ-15

Scope of use

Suitable for water sports and rescue areas.

### Technical parameters

- 1 have 3mm thickness, super elastic chlorine rubber fabric, high elasticity compound rubber material front with zipper, wear more comfortable and convenient: knee and elbow three-dimensional cutting, make the limbs more flexible. Soft fabric, strong movement. Improve the flexibility of the joint parts, reduce the sense of constraints of the activities
2. waist, ankle, wrist with two-way zipper, can make the rescuer wear, take off the equipment are very fast and convenient; all the stitches are sewn with four needle six line sewing, the maximum extent to ensure warmth and comfort sense: in the knee beast outside the poly nitrogen cool coating potential, can provide additional protection; arms and legs with reflective strips legs have pockets, easy to tool storage
3. Rescue clothing is not detected decomposable carcinogenic aromatic amine dyes, no odor, rescue clothing is not detected formaldehyde
4. Rescue clothing water resistance: > 4, acid stains: ≥ 4, alkali stains: ≥ 4, dry friction resistance: > 4
5. Wear-resistant performance, the specimen after 100 rounds of wear, no hole phenomenon
6. Rescue clothing top breaking strength: learning 1000N7. Water rescue protective clothing weight: <1.25kg



# FLOOD PREVENTION CHAPTER



## Diving suit

No.: FXWZ-16

### Scope of use

Suitable for water sports and rescue areas.

### Technical Parameters

1. Ideal diving suit in the water, with back zipper and finger buttons in a pre-shaped cut, and fabric laminate on the chest.
2. Knee area film protection, 3mm blindstitched bonding for high warmth.



## Buoyancy Compensation Device (diving)

No.: FXWZ-17

### Scope of use

Suitable for water sports and rescue areas.

### Technical Parameters

1. Shoulder straps with double-buckle design, suitable for more divers of different sizes, the back frame is equipped with a carrying handle, easy to quickly transport equipment.
2. Both sides are equipped with spare regulator and dive instrument protection socket.



## Diving gloves

No.: FXWZ-18

### Scope of use

Suitable for water sports and rescue areas.

### Technical Parameters

1. Gloves material waterproof, anti-cut, the back of the hand for the elastic material, can be worn for a long time, comfort is very good



## Diving socks

No.: FXWZ-19

### Scope of use

Diving boots for all water temperatures.

### Technical Parameters

1. 1.5mm thick, with zipper and liner for easy on/off.
- 1.5mm thick, with zipper and liner for easy on/off.
2. Special protection for toes and heels and anti-flip flipper design.
3. One-piece molded non-slip sole.



## Water Rescue Gloves

No.: FXWZ-20

### Scope of use

Suitable for water sports and rescue areas water rescue.

### Technical Parameters

1. Suitable for water sports and rescue areas
2. Warm, wear-resistant, using 3MM high elasticity neoprene composite fabric production, three-dimensional cutting technology
3. Palm and fingers with excellent abrasion resistance, corrosion resistance and anti-cutting properties, the specimen in the 9kPa pressure, the specimen is not worn out after 8000 times of cyclic friction. Gripping performance of wet and slippery objects  $\geq 100\%$ , dexterity performance  $\geq 100\%$ .
4. with a certain degree of waterproof and tensile strength
5. gloves wearing time  $< 8S$ , gloves are easy to dry and comfortable skin contact, fluorescent logo, improve visibility of dim and foggy environment
6. Wrist with a strap to ensure that the gloves entrance adjustable adjustable elasticity
7. After wearing gloves on both hands, it can knot ropes with diameters of 9.5mm, 12.5mm and 16mm.
8. Mass  $< 150g$

# FLOOD PREVENTION CHAPTER



**Frog Shoes**

No.: FXWZ-21

**Scope of use**

Easy to put on and take off for quick reaction. Suitable for diving in the field, uneven ground.

**Technical Parameters**

1. Full rubber flippers, reinforced double side keel, central rubber keel support, three channel inflow design, quick release laces.



**Diving boots**

No.: FXWZ-22

**Scope of use**

Suitable for water sports and rescue field.

**Technical Parameters**

1.5mm neoprene warm design, rubber thick sole anti-slip, anti-stabbing, thickness up to 20 bright meters.  
2. Protective rubber layer on the instep, with a hanging mouth, and frog shoes supporting the use of



**Water Rescue Boots**

No.: FXWZ-23

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. shoes liner with 4MM imported NEOPRENE plus super elastic material, the outer side of the Oxbug and PU leather plus adjustable automatic rotation of the rope, auto-locking toe with steel head, anti-collision: heel shoe sandwich reinforced with rubber, heel with a raised rubber: the sole of the shoe with non-slip patterned membrane pressure rubber sole inside the sole of the aramid material, puncture-proof: shoes with drainage holes on the side, fitted reflective strips logo: heel plus reflective handles The inner side of the shoe cover has a 5# YKK zipper; easy to put on and take off; color: black liner with black rubber  
2. Features: outsole anti-puncture, anti-slip, fresh front package part of the anti-impact  
3. The overall warmth of the shoes is good, relatively lightweight  
4. The inner liner is made of super elastic material, with side opening zipper, easy to put on and take off: the characteristics of neoprene, water-proof, warm, water is not easy to enter, good warmth  
5. The outside of the shoe is made of wear-resistant material to prevent friction, and there are drainage holes on the side.  
6. Adjustable knob buckle in front of the shoe to automatically lock the rope and add reflective rope Pan, can adjust the tightness of the instep.  
7. The sole is molded, high elasticity and wear-resistant, non-slip and lightweight and anti-puncture effect is good.  
8. Quality ≤ 1.1kg.



**Diving cap**

No.: FXWZ-24

**Scope of use**

Suitable for water sports and rescue areas

**Technical Parameters**

1. Neck, face opening with 5cm wide, thick mm glossy leather face, can block the cold water into the  
2. Two layers of 2.5mm thick fabric at the top of the head, which can ventilate the overheated heat from the head. Can cover the head and neck of the complete semi-mounted headgear  
3. Material: three-dimensional cut manufacturing



**diving goggles**

No.: FXWZ-25

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. Simple and sturdy structure  
2. Traditional design, durable, ideal for traveling.  
3. Optical lenses with -2~-6 diopter.  
4. High-grade silicone material, non-toxic and odorless.  
5. Reliable combination structure, can be easily disassembled for cleaning and maintenance.  
6. Adjustable buckle strap, comfortable to wear.  
7. Strengthened glass lens, thickness of about 3mm, bright and wide underwater vision.

# FLOOD PREVENTION CHAPTER



breathing tube

No.: FXWZ-26

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. The mouthpiece is made of silicone, comfortable to bite, half in type, simple structure, smooth breathing.
2. Designed according to ergonomics and mechanics, with stop valve design.
3. The end of the tube is designed with anti-wave valve to prevent broken waves from being measured into the tube, and there is a one-way drain valve at the low end of the mouthpiece.
4. As long as the snorkeler is not underwater, the waterproof valve will be activated, blocking the end of the tube, so that seawater can not enter the tube, as long as the snorkeler rises to the surface of the water, the waterproof valve will automatically open the end of the tube, at this time the diver can breathe normally again!



Regulator (diving)

No.:FXWZ-27

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. Diaphragm regulator, secondary respirator with bypass tube to prevent breathing gas blockage.
2. The mouthpiece is made of silicone, which can be comfortably attached to the lips.



oxygen cylinder

No.: FXWZ-28

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. 12L aluminum alloy bottle, corrosion resistant
2. The bottle mouth thread system; M18x1.5



Submersible Instruments

No.: FXWZ-29

**Scope of use**

Suitable for water sports and rescue areas.

**Technical Parameters**

1. Pressure gauge shows the pressure of the cylinder, so that divers always know the remaining gas in the cylinder.
2. Depth gauge, can always show the depth of the diver at any time
3. Compass, divers can grasp the direction at any time
4. There are three positions for hooks around the gauge.
5. Pressure gauge with a maximum test pressure of 360 bar, depth gauge with a maximum test depth of 70 meters.



flood protection network wall

No.: FXWZ-30

**Scope of use**

It can be loaded with stones and other heavy objects to enhance the ability of impact resistance, and is widely used in flood control and rescue, dike reinforcement, stalls and earth walls, and cofferdams for water conservancy project construction.

**Technical Parameters**

1. Shape inch 5 meters x 1 meter 1 meter (total 5 cells)
2. Material: galvanized touch coal net sealing
3. Material: geotextile can be customized according to the actual size



# FLOOD PREVENTION CHAPTER

## wire mesh



No.: FXWZ-31

### Scope of use

Flood control lead wire mesh is specially made for flood control and rescue, mainly used for dyke rescue and protection, risk removal and reinforcement.

### Technical Parameters

1. Specification: 3m x 4m specification flood control lead wire mesh is made of No. 8 galvanized lead wire as the frame and No. 12 galvanized lead wire as the wire.
2. Uniform galvanized layer on the surface with consistent luster.
3. After the zinc layer firmness winding test, the surface of the zinc layer without column marks
- 4 technical standards: in line with the YB/T5294-2009 "general use of low carbon steel wire" requirements, galvanizing process using high heat plating method

## burlap (jute fiber)



No.: FXWZ-32

### Scope of use

used in flood control and rescue in loading gravel soil materials.

### Technical Parameters

1. Organization: ground: double warp plain edge: dense cloth edge
2. Material: should be jute or red
3. Hemp warp and weft density (root 10cm): Warp: 66 Weft: 32
- Needle density (needle 10cm): Side: 10 mouth, 6 breaking strength (KNm)
- Warp: 18 Weft: 20 Side: 15.5

## Movable Floodwall



No.: FXWZ-33

### Scope of use

can be loaded with stones and other heavy objects, to enhance the ability to resist the impact, in the flood control and rescue, dike reinforcement, stalls and earth walls, water conservancy projects construction cofferdams and other aspects of a wide range of applications.

### Technical Parameters

1. Suitable for use on flat ground, such as urban asphalt pavement, or concrete ground, etc. Effective water retention.
2. Height: 50cm each.
3. Size: 705\*680\*528mm
4. Material: strong UV plastic, thickness 5mm Lee each flood board for 4 kg, only 8 pieces of flood board plus 2 pieces of shrinkage board, you can solve the entrance and exit for 5 meters of the garage, compared with the sandbags, flood boards are more convenient to install, fast, and light-weight, rapid diversion of floodwaters downstream!



## Flood Control Bags

No.: FXWZ-34

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical Parameters

1. Material: thickened canvas
2. Sealing method: drawstring mouth
3. Size: 50\*25cm sand bag
4. Weight: 8kg

## Water conservancy net box



No.: FXWZ-35

### Scope of use

Usage: It can hold stones and other heavy objects to enhance the ability of impact resistance, and is widely used in flood control and rescue, dam reinforcement, earth wall, water conservancy project construction cofferdam, etc. widely used.

### Technical Parameters

1. It can be folded up when it is stored, and then assembled when it needs to be used and transported to the rescue site.
2. Specification (single external dimension after combination): 1.0m x 1.0m x 0.5m.
3. Thickness of steel plate: 3mm, width of cut: 3mm; mesh size: 100x200mm.
4. It can withstand a wide range of deformation. Each mesh edge is welded with medium 6 round steel and only one lap point is allowed. Connect 45 sides with 2.2mm galvanized low carbon steel wire ring).
5. Physical properties: yield strength > 270MPa, tensile strength > 535MPa, welded joint tension > 6KN.
6. Surface hot dip zinc treatment. Hot-dip zinc surface treatment can be preserved for 30 years without rusting under normal environment (except for man-made damage) with the ability to resist natural damage and Resistant to corrosion and adverse weather effects, can be customized according to the actual size.
7. With third-party test report



# FLOOD PREVENTION CHAPTER



## Woven bag

No.: FXWZ-36

### Scope of use

Used for loading sand, gravel and soil materials in flood control and rescue.

### Technical Parameters

1. Flood control woven bag is ordinary woven bag, self-color (primary color), warp and weft density 40x40-48x48 (root/10cm).
2. The compilation method adopts the compilation method with anti-slip characteristics.
3. The material of the flood control woven bag should be new polypropylene resin as raw material.
4. Appearance quality and physical and mechanical performance indicators should be consistent with the requirements of the national acceptance standards for flood control
5. warp breaking strength (kN/m):  $\geq 18$
6. Weft breaking strength (kN/m):  $\geq 16$
7. Warp and weft elongation at break %:  $\geq 15$
8. Slit breaking strength(kN/m):  $\geq 7$
9. Equivalent pore size(mm): 0.1-0.5
10. Friction coefficient:  $\geq 0.3$
11. Top breaking force(kN):  $\geq 1.2$
12. Vertical permeability coefficient(cm/s): 10-3-10-3



## Absorbent Expansion Bag

No.: FXWZ-37

### Scope of use

The use of high water-absorbing materials in contact with water that is the expansion of the characteristics of water to water, widely used in flood control and rescue.

### Technical Parameters

1. Suitable for use on the more level ground, such as urban asphalt pavement, or concrete ground, etc. Effective water retaining height were: 50cm each.
2. Size: 705\*680\*528mm
3. Material: strong UV plastic, thickness 5mm each flood board for 4 kg, only 8 pieces of flood board plus 2 pieces of shrinkage board, you can solve the entrance and exit for 5 meters of the garage, compared with the sandbags, flood boards are more convenient to install, fast, lightweight, rapid diversion of flood water to the downstream!



## Geotextile

No.: FXWZ-39

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical Parameters

Width 4m, length 50 meters, unit area quality 400g/m<sup>2</sup>.



## Flood Control Sandbags

No.: FXWZ-38

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical Parameters

1. Material: high-density thickened silicone
2. Model: 25cm\*40cm\*10cm
3. Capacity: sand capacity (17-20KG)



## Small pumps

No.: FXWZ-40

### Scope of use

Mainly used for urban flooding and drainage emergency work.

### Technical Parameters

1. Technical parameters supporting gasoline engine power (kw): 3.05
2. Speed(r/min): 3600
3. Inlet/outlet diameter (mm): 80
4. Specified point flow(m<sup>3</sup>/h): 39.6
5. Height (m): 5
6. Specified point head(m): 15.8
7. Specified point self-priming
8. External dimension(LxWxH)(mm): 510x405x435
9. Net weight(kg): 27

# FLOOD PREVENTION CHAPTER



Colored cloth

No.: FXWZ-41

## Scope of use

It is mainly used for seepage control, protection, isolation and reinforcement of dykes and other dangers. Execution standard: QB/T 3808-1999 composite plastic woven fabric standard.

## Technical Parameters

1. Color: red, blue and white.
2. Warp breaking strength(kN/m):  $\geq 13$
3. Weft breaking strength (kN/m):  $\geq 11$
4. Warp and weft elongation at break(%): 15~30
5. Peel strength (kN/m):  $\geq$  non-peelable
6. Longitudinal trapezoidal tear strength (kN):  $\geq 10.12$
7. Top breaking strength(kN):  $\geq 1.2$
8. Permeability coefficient(cm/s):  $\leq 10-11$
12. Vertical permeability coefficient(cm/s): 10-3-10-3



Diesel Generator

No.: FXWZ-42

## Scope of use

Suitable for flood rescue and water rescue occasions.

## Technical Parameters

1. Rated frequency(Hz): 50
2. Rated voltage(V): 400/230
3. Rated current (A): 9
4. Rated power output(kW): 5
5. Rated speed (rpm): 3000
6. DC Output: No
7. Power factor (cos): 0.8 (for KVA)
8. Net weight(kg): 100
9. Number of phases: three-phase
10. Noise level [dB(A)@7m]: 74~77
11. External Dimension(LXWXH)(mm): 720x492x650
12. Starting mode: 12V electric starter
13. Fuel: No. 0 (summer)-No. 10 (winter) diesel fuel
14. Low oil pressure warning system: Yes
15. Mailbox capacity(L): 12.5



Air compressor

No.: FXWZ-43

## Scope of use

Suitable for flood rescue and water rescue occasions.

## Technical Parameters

1. type diving breathing air rated pressure free air output (L/min) 215 maximum or rated working pressure (Barg): 330
2. Driving power(kW) 4
3. Drive mode: three-phase motor
4. Length(mm): 880 Width(mm): 480 Height(mm): 640 Weight(Kg): 99
5. Cooling system: air-cooled



Diesel Pile Driver

No.: FXWZ-44

## Scope of use

Suitable for flood control and rescue, pre-flood embankment reinforcement and other operations.

## Technical Parameters

1. Power unit diesel engine calibrated power: 485KW
2. Clutch combined speed:  $> 1200$  r/min
3. Total mass of power unit:  $< 73$  Kg2
4. Host structure form: vibration impact
5. Maximum impact energy of FM type: 110.46NM
6. Host weight:  $< 74$  Kg
7. Flexible shaft length:  $> 4$  m3
8. Working Parameters: River, lake and pond embankment (homogeneous soil)
9. Pile diameter:  $> 60-120$  mm
10. Length:  $< 3000$  mm
11. Pile sinking speed:  $> 500-1000$  mm/min



Rope cutter

No.: FXWZ-45

## Scope of use

Suitable for flood rescue, water rescue occasions.

## Technical Parameters

1. Total length 25.5cm, blade length 12.5cm.
2. With fast snap, two rubber leg straps, hard plastic sheath, single edge with 7 teeth saw, blade with hook mouth handle with mouth guard, plastic molding embedded in rubber
3. Blade material is alloy, hardness HRC38 degrees



Crowbar

No.: FXWZ-46

## Scope of use

Suitable for flood rescue, water rescue occasions.

## Technical Parameters

1. length:  $> 500$  mm
2. Thickness:  $> 16$  mm

# FLOOD PREVENTION CHAPTER



**Hammer**

No.: FXWZ-47

**Scope of use**

Suitable for flood rescue and water rescue occasions.

**Technical Parameters**

3 pounds octagonal hammer with high hardness, toughness, long service life



**Iron shovel**

No.: FXWZ-48

**Scope of use**

Applicable to the rescue process of ditching, turning the soil, probing and other work.

**Technical Parameters**

1. Manganese steel material, one meter long.



**iron hoe**

No.: FXWZ-49

**Scope of use**

Suitable for ditching, tilling, probing and digging in the process of emergency rescue.

**Technical Parameters**

1. Made of manganese steel with one meter long handle.



**Iron pick**

No.: FXWZ-50

**Scope of use**

Suitable for flood rescue, water rescue occasions.

**Technical Parameters**

1. High quality steel, with wooden handle, medium size, medium red steel pickaxe



**wooden pile**

No.: FXWZ-51

**Scope of use**

Suitable for preventing loose silt from the riverbed from sliding into the place where the bridge abutment is made, and for fixing the railings and guards against the river water.

**Technical Parameters**

1 length (m). 1-6 meters tail diameter: 8-20 mm cumulative crack length is not greater than 1/5 of the length of the pile wood, there is no penetrating cracks.

2. the diameter of the scarp is not greater than 1/4 of the diameter of the pile wood. the scarp equivalent to 1/5-1/4 of the diameter of the pile wood can not be more than 3 per 1m length; there is no obvious defects of decay.



**Stake hammer**

No.: FXWZ-52

**Scope of use**

Suitable for emergency rescue, flood control and flood prevention, dam piling, for traditional piling tools.

**Technical Parameters**

1. Wood: Litchi wood  
2. Diameter: recommended >20cm  
3. Height: recommended >40cm handle  
4. Length: 1m moderate single wooden piling hammer, made of thick texture lychee wood, kundan wood, according to the wood and other wood made by a person holding the hammer handle piling hammer on the bottom with a steel hoop wrapped to prevent the edge in the whacking process of cracking. Used for hammering small wooden piles.

# FLOOD PREVENTION CHAPTER



Gasoline Powered Pile Driver

No.: FXWZ-53

#### Scope of use

Suitable for rescue and flood control, dam piling, characterized by light weight, using gasoline power, more suitable for small diameter steel pipe piles.

#### Technical Parameters

- 1.Engine: air-cooled single-cylinder two-stroke
- 2.Weight:20.5KG
- 3.Fuel tank capacity: 1.5L
- 4.Displacement:52CC
5. Fuel: mixed oil (gasoline, two-stroke engine oil) Fuel consumption rate: 0.6L/h
- 6.Maximum power and speed:1900W/9000r/min
- 7.Dike maximum torque and speed 3.5Nm/5000r/min power
- 8.More impact frequency:700~1350BPM(times/min)
- 9.Impact energy:20~55J
- 10.Pile hole diameter:10~220mm



(Big Arm Side Shift) PV Pile Driver

No.: FXWZ-54

#### Scope of use

It is suitable for emergency rescue, flood control, dam piling, characterized by light weight, using gasoline power, more suitable for small diameter steel pipe piles.

#### Technical Parameters

- 1.Power unit calibrated power:4.85KW
- 2.Clutch combining speed:1200r/min
- 3.Total mass of power unit:7.KG
4. Host structure form: vibration impact
5. Maximum impact energy of FM type: 11046NM
6. Host weight: 74Kg flexible shaft length:4m3)
- 7 Working parameter length:3000mm
- 8Sinking pile speed:500~1000mm/min
- 9 working object:river, lake and pond embankment(homogeneous soil)
- 10Pile diameter:60~120mm



Pneumatic Pile Driver

No.: FXWZ-55

#### Scope of use

Suitable for emergency rescue, flood control and flood prevention, dam piling, using pneumatic power, power is larger, suitable for larger caliber steel pipe piles.

#### Technical Parameters

1. Supporting power: 190F
2. Gasoline engine start mode: electric start or hand pull start rated power and speed: 85kW/3600rpm
3. Air compressor: displacement 0.6M<sup>3</sup>/min, exhaust pressure 0.8Mpa
4. Gas storage tank: capacity 35L, gas supply pressure  $\geq 0.5$ Mpa
5. Pressure control mode: overpressure automatic exhaust power
6. Unit weight: 105Kg piling
- 7.Machine weight:31Ka
- 8.Working frequency:>30times/min
- 9.Working pressure:0.5Mpa
- 10.Applicable pile diameter:<48mm
- 11.Impact kinetic energy:400Nm

Hexagonal Life Saver



No.: FXWZ-56

#### Scope of use

Suitable for flood rescue, water rescue occasions, can be applied to both sides.

#### Technical Parameters

- 1.Inner diameter:100Cm
2. Outer diameter: 170Cm
- 3.Number of bearers:2
- 4.Weight:20KG, load capacity:500KG
5. Two air inlet nozzles: hexagonal shape, bottom thickness 3cm, blue air tube, yellow bottom with
6. Kit: a life raft with two paddles, with 16% \* 20 meters long life rope 1 with safety buckle

Light assault boat



No.: FXWZ-57

#### Scope of use

Suitable for flood rescue and water rescue occasions.

#### Technical Parameter

#### Technical Parameters

1. Boat material: fiberglass fender
2. Material: PVC or rubber inflatable material
3. Overall length: 5.24m Length: 4.663m Breadth: 2.07m Depth: 0.69m Draught: 0.315m
- 4.Displacement: 1.38 Speed(km/h): 50
- 5.Main engine type: Spray pump main engine



# FLOOD PREVENTION CHAPTER

## Remote Control Robot for Water Rescue

**No.: FXWZ-58**

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical Parameters

1. water speed(km/h): 38.4km/h
2. Remote control distance (meters): 855 meters
3. Manned buoyancy(k): 160kg
4. Water towing room weight(ko): 160kg
5. Up and down turning righting time(sec): 1.5secs
6. Drive power: potassium polymer rechargeable battery 1 battery continuous working time (minutes): about 60 minutes
7. Electricity fast charging time (minutes) 45 minutes
8. Driving device jet safety drive, non-spiral prize rotation mode
9. Wind and wave resistance level (meters): 1 meter
10. Weight with battery (kg): 14.86 kilograms
11. Size: 135X41X34cm
12. Online use characteristics: two robots can be side-by-side online together with remote control use



## assault boat

**No.: FXWZ-59**

### Scope of use

Suitable for flood rescue, water rescue occasions.

### Technical Parameters

1. Specification: 610 type, boat length: 6.10.05 meters boat width: 2.05 earth 0.05 meters type depth: 0.660.05 meters
2. Draught depth: 0.24s 0.02m
3. Recommended outboard power: 40-60HP
4. Nuclear load: can sit 12 people (including the driver) or 1800kg of heavy objects



## Outboard

**No.: FXWZ-60**

### Scope of use

Suitable for flood rescue and water rescue occasions.

### Technical Parameters

1. Net weight/KG: 94-108.5
2. Exhaust capacity/CC: 849
3. Cylinders: 3
4. Fuel consumption/L/h: 23
5. Screw award large output power corresponding to the number of revolutions (rim): 44.1KW (60PS)/5000
6. Oil supply: pre-mixed
7. Random Fuel Tank: 24L



## Punchbowl Trailer Rack

**No.: FXWZ-61**

### Scope of use

Suitable for flood rescue and water rescue occasions.

### Technical Parameters

1. Carrying specifications: length of about 6.46 (M) width of about 2.2 (M)
2. Vehicle size (LxWxH): about 6460x2200x800 (mm)
3. Load capacity(KG): 1.5 tons
4. Tires: 14"
5. Frame beam: adopts (3.0mm) about high-strength profiles and anti-corrosive external treatment
6. Double axle galvanized, four tires, steel rims are galvanized suitable for boat size: 5.6m-6.1m



# FLOOD PREVENTION CHAPTER

## Unmanned aerial vehicle



No.:FXWZ-62

### Scope of use

Suitable for flood rescue and water rescue occasions.

### Technical Parameters

1. Material and color: The main frame is made of quadcopter horizontal folding arm, carbon fiber material structure, color white.
2. Wingspan size (folded arm): 1400\*1400\*500mm
3. Size:1300\*1300\*450mm Fuselage wheelbase (unfolded):1100mm
4. Wheelbase:1000mm
5. Body weight(without battery):9Kg
6. Maximum load:10Kg
7. Intelligent battery(standard)222V-16000mAh-6s
8. Charger: remote control and flight battery 2 in 1
9. Flight length:35mins
10. Maximum horizontal flight speed:15m/s
11. Chart transmission distance: 5000 meters (open outdoor without disturbing)
12. Intelligent flight mode can expand the trajectory planning / heading lock / intelligent flight return
13. One-key takeoff map transmission: COFDM system, the aircraft host image output HDMI HD video
14. Hovering accuracy: vertical: +/-0.8 meters, horizontal: +/-1.0 meters
15. GPS Positioning: Integrated GPS positioning module reaches IP43 level of protection, can be flown in light rain.

## Unmanned aerial vehicle



No.: FXWZ-63

### Scope of use

Applicable to flood rescue water rescue occasions

### Technical Parameters

1. Waterproof grade: floating on the water surface (short-term immersion depth up to 600mm)
2. Body weight: 1447g (excluding battery)
3. Wheelbase: 450mm
4. Maximum rising speed:4m/s
5. Max descent speed:3m/s
6. Max flight speed:20m/s(Attitude mode)
7. Maximum flight altitude:250m(GPS mode)1.3km(Attitude mode)
8. Maximum tolerable wind speed:1. Normal wind speed=8m/s(11-16knots)(F 4)2. Gust=12m/s(22-27Knots)(F 6)Peak
9. Hovering Accuracy: 0.5 meters
10. Flight time (one charge): 20-23 minutes
11. Flight Distance:1.6km
12. Flight Weight:3KG
13. Mounting weight:1KG



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