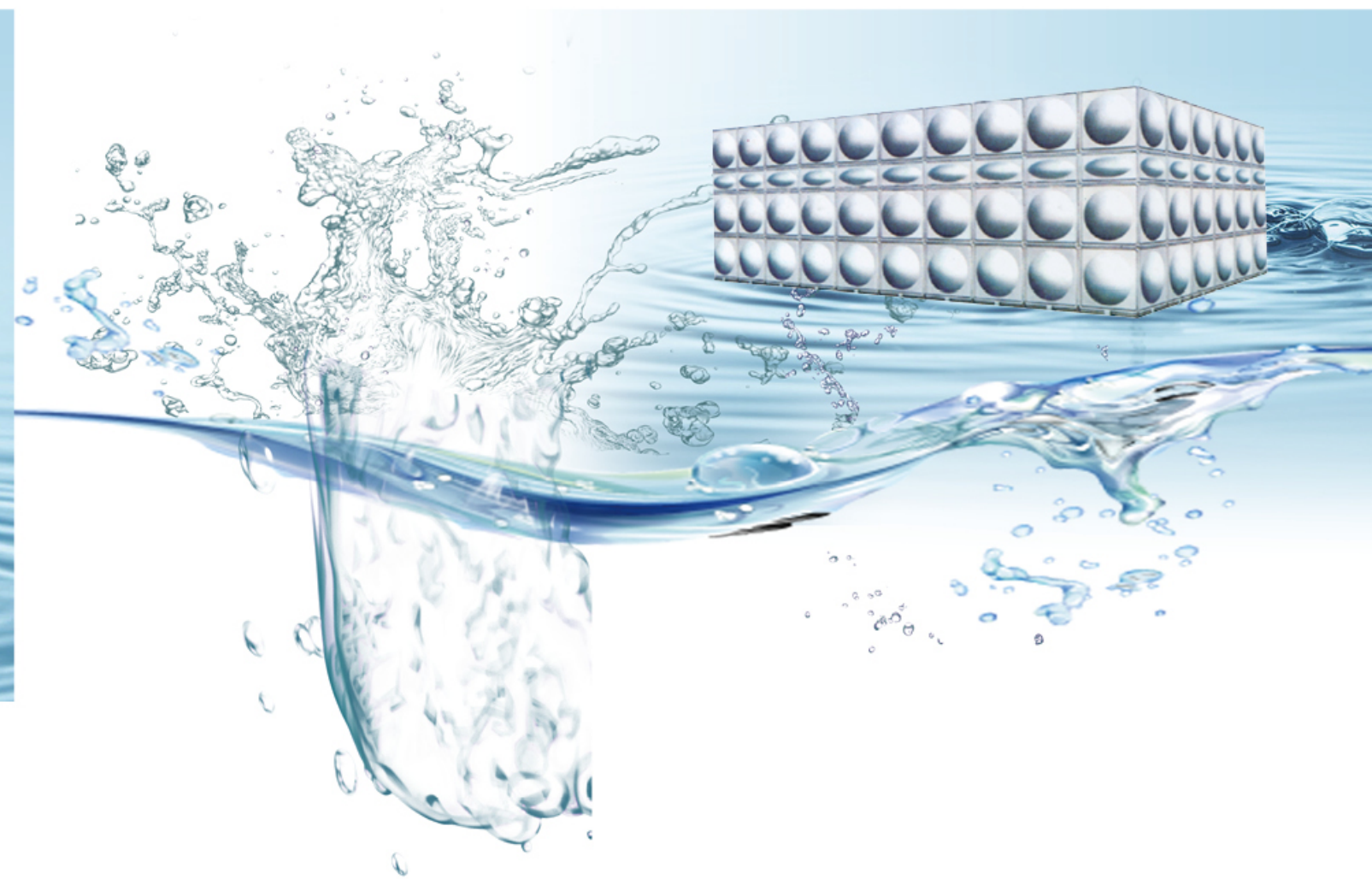
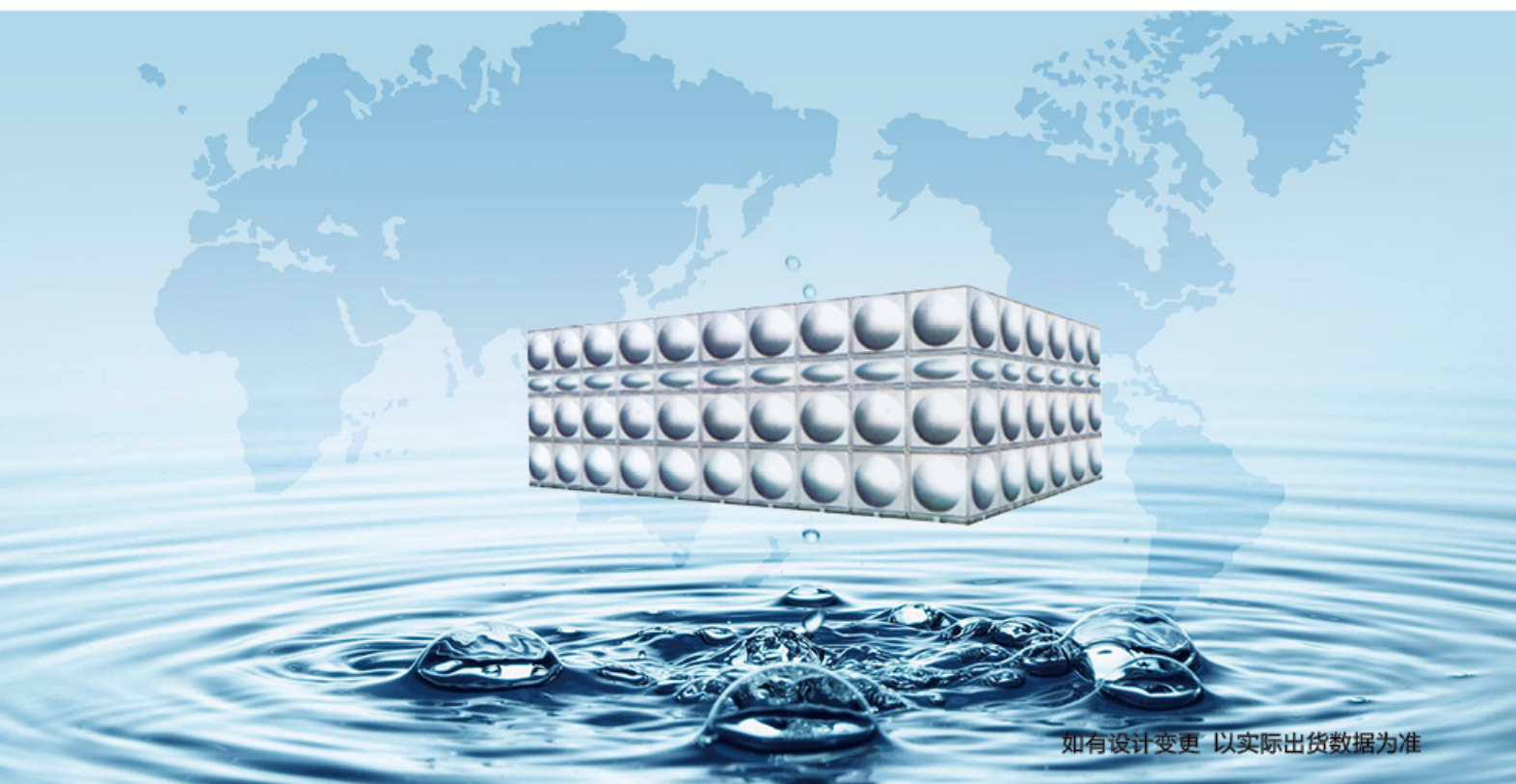




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E-mail:kcnc@sykcnt.com

## STAINLESS STEEL WATER TANK 不锈钢水箱





## 关于我们 About us

上虞科诚暖通设备有限公司位于省级高新技术产业园—浙江上虞经济开发区。公司专业生产、制造环保模块化不锈钢水箱、承压水箱、各种换热设备等暖通给排水系列产品。公司拥有现代化标准车间，具备10T起吊能力，装备拥有卷板机、数控剪板机、数控折边机、大型液压机、自动埋弧焊机、等离子切割等生产加工设备。产品广泛应用于宾馆、酒店、学校、企业、医院及高档生活小区的中央供水及采暖系统，同时承接各类非标设备。

公司技术力量雄厚，拥有一批长期从事暖通给排水设计及制造的专业人员，设计独特、制造精良，能满足不同用户的使用要求。

公司遵循“科技创新、诚信为本”的企业理念，始终坚持“创新为先、质量为本、顾客满意、持续改进”的质量方针。

公司以一流的产品质量，优质的售后服务，良好的企业信誉为阁下提供安全、放心、高效、可靠的产品和服务。

Shangyu Kecheng Heating & Ventilation Equipment Co., Ltd is located in provincial high tech industry park—Shangyu Economic Development Zone, majoring in design, production and marketing of modular stainless steel water tank, Pressure tank, and series products for heat exchanger and heating & ventilation and water supply & drainage. The company has modern standard workshop and advanced production equipments such as 10T crane, plate bending machine, NC shearing machine, NC edging machine, large-scale hydraulic press, automatic submerged arc welder, plasma cutting machine and etc. Products are widely used in the central water supply and heating system in places such as hotel, restaurant, school, enterprise, hospital and high level living community. Meanwhile, we would like to design and produce customized non-standard products.

The company enjoys strong technical strength with a number of professional in this industry for a long time, and features a unique design and sophisticated manufacture to meet different requirements.

We follow the business philosophy of “Technical Innovation and Integrity-based”, and always adhere to the quality policy of “Continuous Improvement and Strive for Perfection”.

With the excellent quality and after-sales service, as well as good enterprise reputation, we would like to provide safe, assured, high-performance, reliable products and services at your disposal.



## 关于产品 About product

模块化装配式不锈钢水箱是目前国内新型卫生环保的储水装置。与传统水箱相比，具有永不生锈、不生青苔、不漏水、清洁卫生、使用寿命长、性价比高、组装方便、冷热兼用、易于保温等一系列优点，是传统给水工艺、材料形式上的重大突破，是水泥水箱、玻璃钢水箱理想替代品。

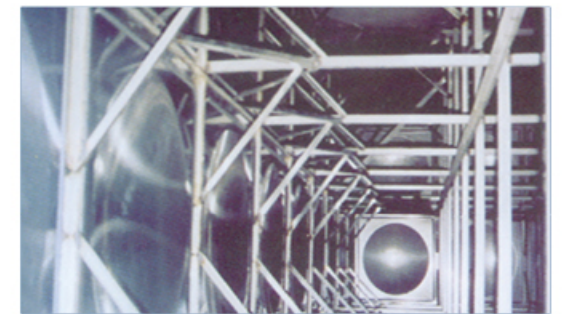
上虞科诚暖通设备有限公司在长期生产加工水箱经验基础上，研制开发了环保型模块化装配式不锈钢水箱。水箱选用进口食品级不锈钢材料，模压成型，规格不同，单板(规格：1m×1m、1m×0.5m、0.5m×0.5m)(本公司冲压面板球冠深度达80mm，比一般普通厂家深30—40mm，冲压板的承压能力是普通平板的3—4倍)，内部用不锈钢骨架拉筋结构加强水箱承压能力，配以各种不锈钢材质附件，底架用镀锌槽钢，采用氩弧焊工艺现场组装焊接而成一个结构强度较高的完美的整体水箱。无需大型吊装设备，运输便捷。公司也可以根据用户的需求量身定制，组装成不同形状、不同体积的不锈钢水箱，适用性和实用性强，给设计和施工带来便捷，与整体建筑布局相得益彰。公司生产的模块化装配式不锈钢水箱，以其稳定可靠的质量，诚信优质的服务得到广大用户的赞誉。

目前企业致力于开发各类高新产品，竭诚欢迎与各界朋友进行广泛合作，我们愿以真诚的服务，给你一个放心、安心、舒心的产品和服务。

Assembly-type modular stainless steel water tank is one of new-fashioned storage water device with sanitation and pro-environment. Compared with traditional tank, it features rustless, leakage-proof, sanitary, easier assembly, with long useful life and high cost performance. Besides, it can not only store cold water, but also hot water. Therefore, it is the ideal substitute for concrete and FRP tank.

On the basis of long-term production & processing experience of tank, we research and develop this assembly-type modular steel water tank. Adopted imported food grade SUS plate and using mold pressing process, the plate has difference specifications, that is, 1m×1m, 1m×0.5m, 0.5m×0.5m. Worthily mentioned, for our stamping plate, its depth spherical cap is up to 80mm, which is deeper than that from other factories in the industry about 30-40mm. Also, its loading capacity of stamping plate is 3-4 times higher than ordinal panel. To strengthen its bearing capacity, it adopts the framework of inside stainless steel braces with stainless steel accessories, and uses galvanized channel steel for bottom, as well as adopts the argon-arc welding technology to assemble on site. Furthermore, it need not the equipment for large scale hoisting at all and enjoys very easier transportation. Of course, we also can supply customized service to meet different requirements. KENCHENG TANK is highly being praised for its stable & reliable quality and faith & integrity service.

At present, we now apply ourselves to develop different kinds of high-tech products, and warmly welcome friends from all walks of life to cooperate widely. We assure you to provide safe, reliable, satisfying products & services with you in our sincere service & faithful principle.



### 我们的服务：Our services

温馨周到全程服务  
One-stop services

咨询、考察、签约、施工、售后服务  
Consultation, Visit, Contract, Assembly & After-sale service

### 售后服务六大法则：Six principles for after-sale service

全天恭候 Be available all day	定期回访 Regular return-visit
及时抢修 Timely repairment	保修一年 One-year guarantee
定期维护 Regular maintenance	终身服务 Lifelong service

## 适用场合 Application

a.建筑给水的调节水箱、消防水箱、贮存水箱、采暖及热水供应系统的膨胀水箱、凝结水箱、混凝土内贴不锈钢水箱。在建筑施工、道路施工、地质勘察及国防工程等临时储水箱。

b.石油、化工、食品、制药、冶金等行业酸碱储存槽、油槽、锅炉行业的补充水箱、保温水箱。

c.水处理行业的原水箱、净水箱，环保行业的污水处理槽等。

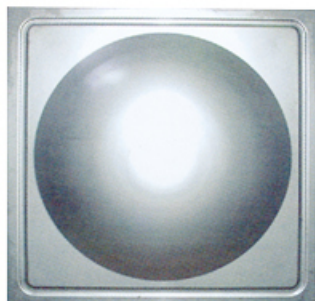
a. It can be widely used as regulating tank for water supply in building, fire water tank, storage tank, expansion tank in heating & hot water-supply system, condensation tank, and can be also used in concrete tank with stainless steel, which attached to the inside surface as well as temporary tank in building operations, road construction, geological survey and national defense construction.

b. It can be widely used as s acid-base storage tank, oil tank in the field of petroleum, chemical industry, foodstuff, pharmacy and metallurgy. Also, it can be used as supplementary tank and insulated tank in boiler industry.

c. It can be widely used as original water tank and cleaning water tank in water treatment industry, as well as sewage treatment tank in environmental protection industry.



## 性能优点 Features



### 一、永不生锈 Rustless

选用进口食品级SUS304、不锈钢板，具有较高的耐腐性，耐老化，使用寿命长，内部不滋生藻类，保证水质清洁卫生。

Adopted Imported food-grade SUS304 stainless steel plate, the unit features corrosion resistance, aging resistance with longer useful age. It has excellent water quality without algae and moss.

### 二、永不渗漏 Leakage-proof

独特的结构设计、全焊接现场组合，采用氩弧焊钨极熔化焊，无泄漏点、永不渗漏。

With its unique design and all-welded assembly on site, as well as argon-arc welding technique with tungsten electrode, it enjoys leakage-proof without any leakage point at all.

### 三、重量轻 Light weight

采用独特冲压成型工艺，选用1-3mm的薄板提升其材料强度，重量仅为普通钢板水箱的三分之一。

Adopted advanced press forming technology and 1-3mm plate to enhance its strength, its weight is only about one-third of conventional plate.

### 四、随意组合 Discretionary assembly

模块化设计标准板型（1m×1m，1m×0.5m，0.5m×0.5m），可任意组合，可满足不同尺寸规格及多边形、L型等场地需求。

Due to its modular plate (1m×1m, 1m×0.5m, 0.5m×0.5m), it could be assembled discretionarily to polygonal, L shape to meet all kinds of design requirements.

### 五、外形美观 Nice appearance

线条流畅，造型独特，设计完美。

The tank enjoys graceful lines, unique appearance and perfect design.

### 六、符合消防、建筑规范

#### Accords with the fire protection & construction rules

不锈钢水箱不易燃还可以起到初期灭火供水的作用，符合国家有关消防和建筑要求。

For its non-inflammability, it features a distinct strongpoint as storage of supplying-water for extinguishing fire which accords with the fire protection and construction rules.

## 不锈钢水箱的设计使用说明 The explanation of design



### 1、制造标准 Manufacture standard

国家建筑标准设计图集12S101。  
National architectural design standard atlas 02S101.

### 2、选用材质 Material

SUS304、SUS316L、SUS444。

### 3、适用范围 Application

各类工业、民用建筑给水、暖通、消防系统、食品、饮料、造酒、水处理行业、医药、石油、化工行业。

It is widely applied in the field of industry, civil architecture, heating ventilation, fire system, foodstuff, beverages, wine-making, water treatment, pharmacy, metallurgy, and chemical industry.

### 4、水箱附件 Accessories

进水管（配浮球阀）、出水管、溢流管、排污管、透气管、人孔、内外扶梯、镀锌槽钢。水箱的进出水管径、方位、和连接形式及用户若有特殊要求可在合同附件中说明。

Inlet-water pipe(with float valve), outlet-water pipe, over-flow pipe, drain pipe, vent pipe, man hole, inside latter, outside latter, and the galvanizing channel steel. Worthily mentioned, please stipulate details in the contract if user has specific requirements for pipe diameter, direction, connection type, and etc.

### 5、水箱施工 Assembly

由专业焊工现场采用钨极氩气保护焊接，水箱的四周应有不小于500mm的检查空间，水箱顶至屋顶应有不小于400mm的空间，并确保施工现场整洁干净，水箱保温可根据用户具有要求整体覆盖保温。

The tank will be installed by our professional engineers with tungsten-electrode argon arc welding at user's spot. The servicing space of at least 500mm should be left on all sides of the tank, and 400mm space at least for service should be left at the top of between tank and roof. The spot should be orderly and clean. Additionally, heat preservation could be covered and made according to the user's specific requirements.

### 6、水箱验收 Inspection and acceptance

关闭出水口、排污口、打开进水阀门，待水箱成满水后，3小时无渗漏、无异常声及变形为合格。

Close the outlet of water and sewage, open the inlet valve, as well as filled with water for lasting about 3 hours, the tank would be considered as qualified product if it has no any leak, abnormal noises and deformation during these time.

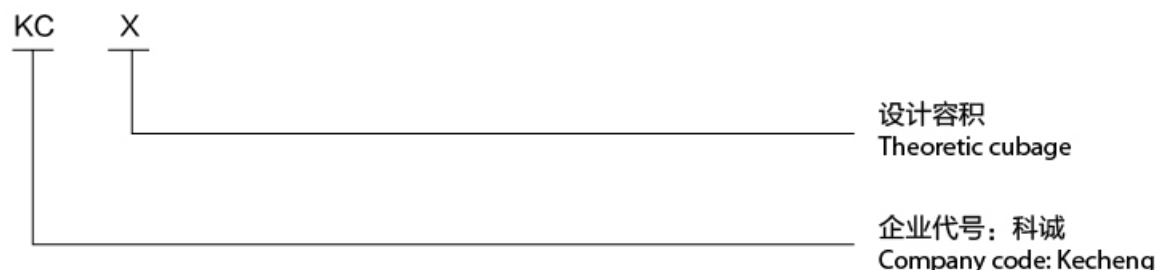
### 特别说明 Special note

水箱水质应符合GB/T 9729-2007《氯化物测定通用方法》要求，特别应严格控制水中氯离子含量不超过25mg/l，以防止水箱内部产生点蚀、应力腐蚀、缝隙腐蚀等局部腐蚀后引起水箱损坏。同时在海水环境或临海地区强烈要求建议用SUS316L或SUS444材料。

The water quality should confirm to the requirement of GB/T 9729-2007 <Sodium chloride general testing method>. Especially, chloride ion content in water should be controlled strictly less than 25mg/l in case of causing pitting, stress corrosion, crevice corrosion which are easy to damage water tank. Also, it is strongly suggested that SUS316L or SUS444 should be used in seawater environment and coastal areas.



## 规格型号 Specifications



## 装配式不锈钢焊接水箱选型指南 The guide to type selection

型号 Model	外形尺寸 Dimension			容积 Cubage m³	顶板 Roof plate mm	底板 Bottom plate mm	侧一 Side 1 mm	侧二 Side 2 mm	侧三 Side 3 mm	底架槽钢 Channel steel base
	L	W	H							
KC-1	1000	1000	1000	1	1.0	1.2	1.0	-	-	8#
KC-2	2000	1000	1000	2	1.0	1.2	1.0	-	-	8#
KC-3	2000	1500	1000	3	1.0	1.2	1.0	-	-	8#
KC-4	2000	1000	2000	4	1.0	1.5	1.2	1.5	-	8#
KC-6	2000	2000	1500	6	1.0	1.5	1.2	1.5	-	8#
KC-8	2000	2000	2000	8	1.0	1.5	1.2	1.5	-	8#
KC-10	2500	2000	2000	10	1.0	1.5	1.2	1.5	-	8#
KC-12	3000	2000	2000	12	1.0	1.5	1.2	1.5	-	8#
KC-15	3000	2500	2000	15	1.0	1.5	1.2	1.5	-	8#
KC-18	3000	3000	2000	18	1.0	1.5	1.2	1.5	-	8#
KC-20	4000	2500	2000	20	1.0	1.5	1.2	1.5	-	8#
KC-24	4000	3000	2000	24	1.0	2.0	1.2	1.5	-	8#
KC-30	4000	3000	2500	30	1.0	2.0	1.2	1.5	1.5	8#
KC-40	4000	4000	2500	40	1.0	2.0	1.2	1.5	1.5	10#
KC-50	5000	4000	2500	50	1.0	2.0	1.2	1.5	1.5	10#
KC-60	6000	4000	2500	60	1.0	2.0	1.2	1.5	1.5	10#
KC-80	8000	4000	2500	80	1.0	2.0	1.2	1.5	1.5	10#
KC-100	8000	5000	2500	100	1.0	2.0	1.2	1.5	2.0	10#
KC-120	8000	6000	2500	120	1.0	2.5	1.2	1.5	2.0	10#
KC-150	10000	5000	3000	150	1.0	2.5	1.2	1.5	2.0	10#
KC-180	10000	6000	3000	160	1.0	2.5	1.2	1.5	2.0	10#
KC-210	10000	7000	3000	180	1.0		1.2	1.5	2.0	10#

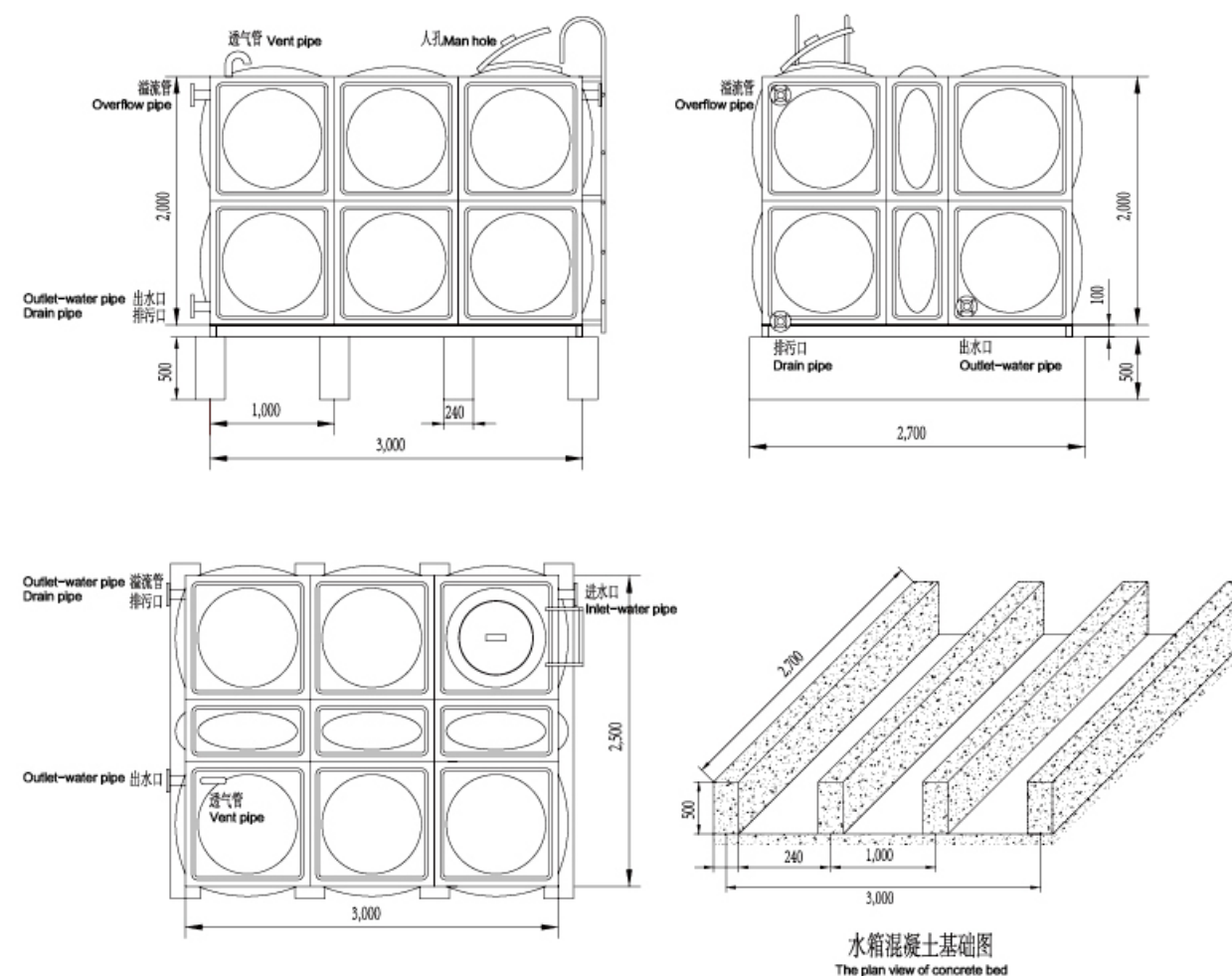
注：1、用户根据实际需要自由选择水箱尺寸，按1000mm×1000mm，1000mm×500mm，500mm×500mm。

2、若需按国家水箱标准厚度，水箱2米高的厚度为底板2.5mm，侧一2.0mm，侧二1.5mm，顶板1.5mm。水箱3米高的厚度为底板3.0mm，侧一2.5mm，侧二2.0mm，侧三1.5mm，顶板1.5mm。

NOTE: 1, users according to the actual needs the freedom to choose water tank size, according to the 1000 mm x 1000 mm and 1000 mm x 500 mm and 500 mm x 500 mm.

2, if need to standard thickness according to the national water tank, water tank two meters tall, thickness of 2.5 mm bottom, side a 2.0 mm, side two 1.5 mm, roof 1.5 mm. 3 metre high water tank the thickness of 3.0 mm for bottom, side a 2.5 mm, side two 2.0 mm, side three 1.5 mm and 1.5 mm roof.

## 产品结构示意图 Structure Diagram



## 不锈钢水箱管口表 Table of pipe connection

序号 Serial number	符号 Symbol	公称尺寸 Nominal size	数量 Quantity	连接尺寸及标准按公司标准 Connection size & standard according to factory standard	用途 Usage
1	a	600	1	HG20592-2009	人孔 Man hole
2	b	50	1	HG20592-2009	进水管 Inlet-water pipe
3	c	50	1	HG20592-2009	出水管 Outlet-water pipe
4	d	65	1	HG20592-2009	溢流管 Overflow pipe
5	e	50	1	HG20592-2009	排污管 Drain pipe
6	f	50	1	按公司标准 According to factory standard	通气管 Vent pipe
7	-	-	1	按公司标准 According to factory standard	外扶梯 Outside ladder
8	-	-	1	按公司标准 According to factory standard	内扶梯 Inside ladder



# 装配式不锈钢水箱应用材料的耐腐蚀性能 Corrosion resistance for the material of Assembly-type SS water tank

## 奥氏体不锈钢 Austenite stainless steel

制作水箱的不锈钢材料除我国00Cr18Mo2和日本SUS 444之外，其它都是奥氏体不锈钢，这类不锈钢具有很高的韧性（延伸率大于40%），冷加工和焊接性能良好。

Normally, austenite stainless steel is widely used as the material for tank, except our country's 00Cr18Mo2 and Japanese SUS444. This kind of stainless steel features high toughness and its extensibility is greater than 40%. Besides, it also has good cold-working properties and welding performance.

## 铁素体不锈钢 Ferritic stainless steel

中国00Cr18Mo2和日本SUS444材料为铁素体不锈钢，是一种含有铬18%并具有一定钼含量，且碳、氮很低的高纯铁素体不锈钢。该钢种具有优异的抗应力腐蚀、耐氯离子点腐蚀和高温抗氧化性能特点，特别适用于不锈钢水箱的材料。

Our country's 00Cr18Mo2 and Japanese SUS444 are higher purity ferritic stainless steel, which has 18% chromium and certain molybdenum content, while its content of carbon and nitrogen are very low. This kind of material features excellent stress corrosion resistance, pitting corrosion resistance to chloride ion, oxidation at high temperature. Therefore, it is the most favorable and ideal material for water tank.

## 奥氏体、铁素体不锈钢材料的耐腐蚀性能

### Corrosion resistance for austenite & ferritic stainless steel

无论奥氏体还是铁素体不锈钢材料在大气中、淡水中，耐腐蚀性能都比较好，其耐腐蚀性能差别主要取决于耐晶间腐蚀、点腐蚀、均匀腐蚀和应力腐蚀的能力。

Austenite & ferritic stainless steel have good corrosion resistance in the atmosphere and fresh water. And the mainly difference in corrosion resistance depends on the resistance to intergranular corrosion, pitting corrosion, and uniform corrosion, as well as stress corrosion.

## 结论 Conclusion

本厂选用食品级SUS304不锈钢板，在自来水介质中耐腐蚀性强，永不生锈，永久性保证水质清洁，一般场合下均可选用。SUS316L材料耐晶间腐蚀、均匀腐蚀、点腐蚀及在自来水介质中耐腐蚀比SUS444优异；SUS444材料应力耐腐蚀比SUS316L优异；应力腐蚀必须在特定的介质、环境中才会产生。一般介质无需选用SUS316L及SUS444材料。但在海水环境或临海地区强烈建议用SUS316L或SUS444材料。

We usually adopt food-grade SUS304 as material of tank, which not only have higher resistance to corrosion in the tap-water medium, but also can keep the water clean perpetually .Besides, it features rustless, and can be widely used in different fields. As to SUS 316L, it enjoys higher resistance than SUS444 to intergranular corrosion, uniform corrosion, and pitting corrosion, as well as to corrosion in the tap-water medium. However, the resistance to stress corrosion of SUS444 is better than that of SUS316L. Worthily mentioned, the stress corrosion only could be induced in specific medium or environment. Therefore, it is not necessary at all to use SUS316L or SUS444 in general medium, but it is strongly suggested to choose SUS316L or SUS444 in seawater environment and coastal areas.

## 各种不锈钢材的比较 The comparison of various stainless steel

钢种 Type of steel	成份 Content	C	Si	Mn	Ni	Cr	Mo
SUS304		≤0.08	≤1.00	≤2.00	8.00-20.00	18.00-20.00	-
SUS316L		≤0.08	≤1.00	≤2.00	16.00-18.00	16.00-18.00	2.00-3.00
SUS444		≤0.025	≤1.00	≤1.00	≤0.06	17.00-20.00	1.75-2.50

# 工程案例 Engineering cases



日本水箱案例图 Exported to Japan

出口水箱生产现场  
Export water tank on production



安哥拉水箱 Exported to Angola

水箱拉筋图  
Water tank tensile sinew figure



## 工程案例 Engineering cases

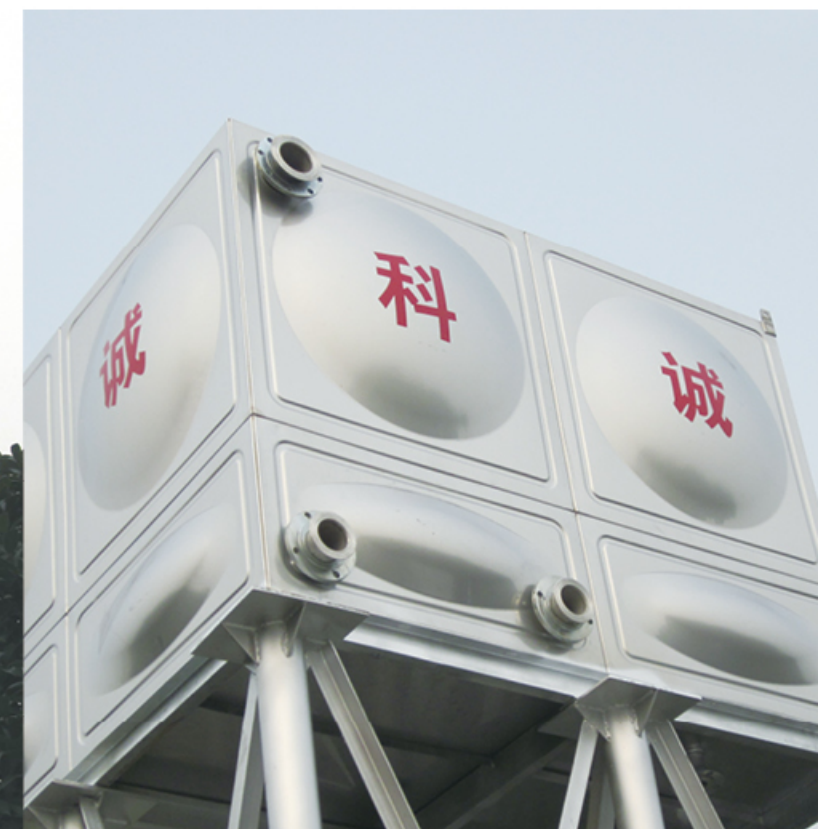


- ▶ 杭州海纳百川半导体有限公司  
Hangzhou all rivers run into sea semiconductor Co., LTD

## 工程案例 Engineering cases



- ▶ 浙江萧山国际机场  
Hangzhou International Airport



### 订货说明 Ordering instructions

- 1、企业提供的水箱进出口及其它管径，是按公司企业标准所定，如果用户有特殊要求，请在合同中注明或提供相关确认的有效图纸。
- 2、水箱所配遥控浮球装置及其它需增设的附件，根据设计要求均由用户自行配置。
- 3、如水箱需保温，保温材料采用橡塑板、聚氨酯发泡保温板；外加彩钢板或不锈钢薄板包装，价格另计。

1. Normally, we produce tank according to factory standard, and please stipulate details in the contract if you has specific requirements, or it is ok for us to make product according to drawing.
2. Based on design requirements, you should buy remote float device and extra accessories by yourselves.
3. If you need insulated tank, you can choose rubber plate or foam insulation board as insulation material. Besides, centrifugal cotton or polystyrene foam board will be used inside, while color plate or stainless sheet steel will be used as the outermost layer at your extra cost.