

PT型化学储罐、水塔

-type chemical storage tank and water tower

发泡三重层 Triple foaming layer



外层使用八碳线性低密度聚乙烯(C8-LLDPE)为主体。具有韧性好、冲击强度高优点，并额外添加紫外线吸收剂与抗氧化剂增加使用寿命

The C8-linear low density polyethylene (C8-LLDPE) is used as the main body of the exterior cover. It has advantages of good toughness, high impact strength etc., and is added additionally with ultraviolet absorbent and antioxidant to increase the use life.

中层为双层发泡层，具有增加桶体强度，保温、防震、缓冲冲击功能。

The middle layer is a double-layer foam layer, which has the functions of increasing the strength of the barrel, heat preservation, shock resistance and impact buffering.

里层为白色内衬层，可保持桶内清洁与美观。UL加强型桶槽特别使用高密度聚乙烯(HDPE)为里层，增加抗药性。

The inner cover is a white lined layer, which can keep the inner clean and beautiful. The high density polyethylene (HDPE) is especially used as the inner cover of the UL enhanced tank to enhance its resistance to drugs and corrosion.



质轻坚韧
Light and tough



耐冲击
Good impact



耐环境应力开裂
Not fragile



防震
Shock-proof



耐强酸强碱
Midori



耐热
Heatproof



耐冻
Freeze tolerance



抗老化
Anti-aging



搬运简便
Easy handling

在欧美国家广为运用的,最先进的制造工艺就是恩格尔成形法,即在回转成型的制造过程中,分数次投入不同的材料,实现了3层成型。外层为黑色抗紫外线及抗老化的聚乙烯,中间层为发泡聚乙烯,内层为高密度(HDPE)聚乙烯原料构成。与其他工艺相比,即使同等重量前提下,不仅刚性大幅提高了30%,而且单位重量比也完全超越其他工艺。

发泡三重层具有模具费用低,制造成本低廉等经济方面和性能面的优势,是海强公司最有信心推荐的优质产品。

Engel molding method is a kind of the most advanced production technics used widely in Europe and America. The technique is the different plastics were dumped into a mould separately for forming three layers during the rotational moulding. The outer layer is a black polytene layer with functions of uvioresistant and anti-aging, the middle is a layer of foamed Polyethylene, the inner layer is HDPE. In the same weight cases, the stiffness of the product not only increased by 30%, but also the unit of weight ratio is well beyond by other technologies.

Our products have advantages of the lower mould cost and production expenses, and they are of recommended by the HaiQiang Company confidently.

恩格尔成型工艺 Engel molding technology

1.原料投入 Raw material input

将所需量的原料放入模具内部,将原料微粉直径约为0.5mm的粉末以便在之后的加热过程中容易熔化。原料放入之后用螺丝或夹板之类的东西固定模具边缘,进行注塑。

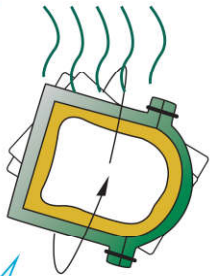
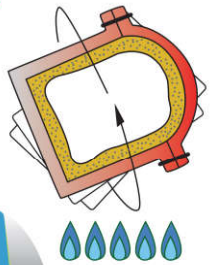
Put the raw materials into the internal mold as required and grind them into powders with 0.5mm diameter so as to make it easily melting in the heating process. After that, fix the mold edges with objects like screws or splints to carry out injection molding.



2.加热 Heating

模具利用液化气或者天然气燃烧加热转动,里面的原料熔化开始附着在模具内部。加热时间根据模具的材质,形状,原料的种类和投入量不同而不同。

The mold is heated with liquefied or natural gas and rotated at the same time, and the raw materials inside are molten and start to be attached to the inside of the mold. The heating time varies according to the different materials and shapes of the mold and the different types and input amount of the raw materials.



4.取出 Extraction

去掉注塑用的螺丝或夹板等然后取出塑料成型品。也有根据产品不同取出后为了保持形状放入制具中以约束其收缩。

Remove the screws or splints used for injection molding and then take out the finished plastic products. However, the products can also be put into the mold to constrain its shrinkage to keep its shape.

3.冷却 Cooling

待原料全部熔化附着在模具内部后,开始冷却过程。基本上是这样转动自然冷却,但是也有为了缩短时间使用水冷却的方法。等到模具内的塑胶产品脱离模具,冷却也就完成了。

When the raw materials are fully molten and totally attached to the inside of the mold, the cooling process begins. Basically the mold is rotated continuously for natural cooling. However a water-cooling method can be adopted to shorten the cooling time. The cooling finishes after the plastic product inside the mold separates from the mold.

产品特性 Product features

- **质地坚韧:** 采用纯进口聚乙烯 (polyethylene) 为主要原料。质地坚韧, 搬运简便, 内外光滑、抗震、耐冲击。民用装水不易长青苔、安装移动方便。
- **抗老化:** 原材料添加抗老化剂和紫外线吸收剂, 能有效延长桶体的老化期和使用寿命。
- **耐药性佳:** 对各类酸、碱盐具有极佳之抗蚀性、能储运绝大多数无机酸、碱、盐类溶液和部分有机溶剂。抗腐蚀性强于玻璃钢五倍, 能替代不锈钢、镍高级合金钢等材料。(见附表封底耐药性表)
- **经济耐用:** 桶体采用先进优越的滚塑成型法, 整体无焊缝且分为里、中、外三层发泡不易破裂、内外光滑、易清洗。
- **耐热耐冻:** 耐热耐冻性能极佳, 在摄氏-30℃~70℃均可使用。
- **不漏液:** 在使用期限内 (合理安装、使用、维护, 人为及不可抗力因素除外) 出水口接头和法兰使用与桶体相同材质, 采用热熔接法加工, 可省去因漏液而更换配件的麻烦。

• Firm and tenacious: The main raw material is imported polyethylene. It is in a solid quality and is easy to handle. It is smooth externally and internally smooth and resistant to vibration and impact. When used for water storage, it is unlikely to be moss-ridden and is easy to install and move.

• Ant-aging: The raw material is added with the inhibitor and ultraviolet light absorber to effectively extend the aging period and service life of the tank body.

• Satisfactorily chemicals-tolerant: It is of excellent corrosion resistance to various acid and alkali salts and can accommodate most inorganic acidic, alkaline and saline solutions and some organic solvents. Its corrosion resistance is 5 times that of glass and can substitute stainless steel, titanium, nickel, high-grade alloy steel and other materials (see the Table for Chemicals Tolerance attached in the back cover).

• mical and durable: The tank body is made with the advanced and superior rotational molding method and is entirely free from welded joint. In addition, the tank body is provided with internal, intermediate and external foaming layers, and is externally and internally smooth and easy to clean.

• Heat-resisting and freeze-resisting: It is of the optimum heat resistance and freeze resistance and can be used at -30℃~70℃.

• No leakage: within the service life (except for reasonable installation, use, maintenance, man-made and force majeure factors), the outlet joint and flange are made of the same material as the barrel, and are processed by heat welding, which can save replacement due to leakage Trouble with accessories.

应用范围 Scope of application

广泛应用于化工行业、电子业、钴镍、淀粉业、稀土业、酿造行业、高层建筑二次供水、蓄水、工业用冷却水、水处理工程、环保工程、水处理净化设备配套及各种化工原料、制剂、油品、饮品的储存和运输。

It is widely used in the chemical, electronics, cobalt nickel, starch, rare earth, and brewing industries; for the high-rise building water supply and water storage, industrial cooling water, water treatment works, and environmental works; and as the supporting equipment for water treatment and purification; as well as the storage and conveying of various raw materials, preparations, oil products and drinks.

技术参数 Technical parameters

PT-250L



直径D	650mm
人孔d	330mm
垂高h	790mm
总高H	1000mm
平均厚度 Average thickness	
A	B 特 UL
2.5	3.5 4 5

PT-400L



直径D	750mm
人孔d	330mm
垂高h	900mm
总高H	1150mm
平均厚度 Average thickness	
A	B 特 UL
2.5	3.5 4 6

PT-500L



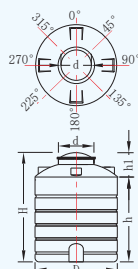
直径D	810mm
人孔d	400mm
垂高h	1000mm
总高H	1260mm
平均厚度 Average thickness	
A	B 特 UL
3	4 4.5 7

PT-600L

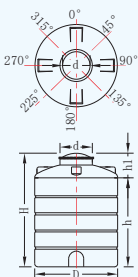


直径D	810mm
人孔d	400mm
垂高h	1180mm
总高H	1440mm
平均厚度 Average thickness	
A	B 特 UL
3	4 5 7

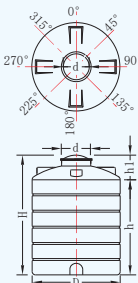
技术参数 Technical parameters

PT-1000L


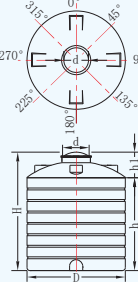
直径D	1080mm		
人孔d	400mm		
垂高h	1150mm		
总高H	1400mm		
平均厚度 Average thickness			
A	B	特	UL
3	4	6	8

PT-1500L


直径D	1210mm		
人孔d	400mm		
垂高h	1300mm		
总高H	1660mm		
平均厚度 Average thickness			
A	B	特	UL
6	7	8	10

PT-2000L


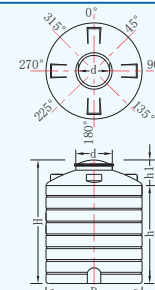
直径D	1360mm		
人孔d	400mm		
垂高h	1470mm		
总高H	1850mm		
平均厚度 Average thickness			
A	B	特	UL
6.5	8	9	11

PT-3000L


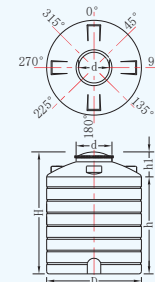
直径D	1600mm		
人孔d	400mm		
垂高h	1500mm		
总高H	1920mm		
平均厚度 Average thickness			
A	B	特	UL
7	8	10	12

注：所有尺寸标示为mm,有±5%误差,仅供参考,以实际尺寸为准! Note: All dimensions are marked in mm, with ±5% error, for reference only, the actual size shall prevail!

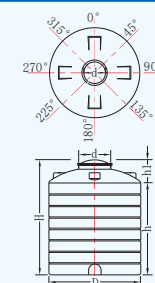
技术参数 Technical parameters

PT-4000L


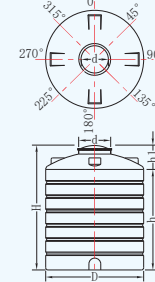
直径D	1600mm		
人孔d	400mm		
垂高h	2000mm		
总高H	2420mm		
平均厚度 Average thickness			
A	B	特	UL
7	8	10	13

PT-5000L


直径D	1850mm		
人孔d	600mm		
垂高h	1890mm		
总高H	2380mm		
平均厚度 Average thickness			
A	B	特	UL
8	9	11	14

PT-6000L


直径D	2000mm		
人孔d	600mm		
垂高h	2010mm		
总高H	2500mm		
平均厚度 Average thickness			
A	B	特	UL
8	9	11	14

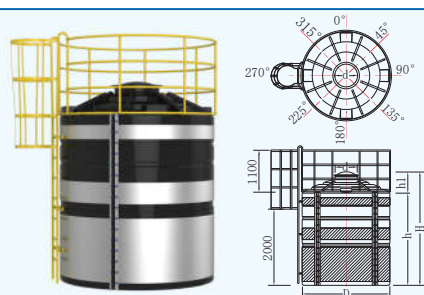
PT-8000L


直径D	2160mm		
人孔d	600mm		
垂高h	2210mm		
总高H	2750mm		
平均厚度 Average thickness			
A	B	特	UL
8	9.5	11	15

注：所有尺寸标示为mm,有±5%误差,仅供参考,以实际尺寸为准! Note: All dimensions are marked in mm, with ±5% error, for reference only, the actual size shall prevail!

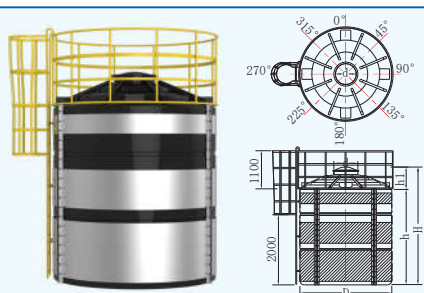
技术参数 Technical parameters

PT-10000L



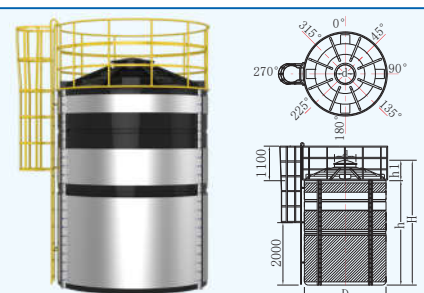
直径D	2300mm
人孔d	600mm
垂高h	2420mm
总高H	2980mm
平均厚度 Average thickness	
A	B 特 UL
8	10 12 16

PT-15000L



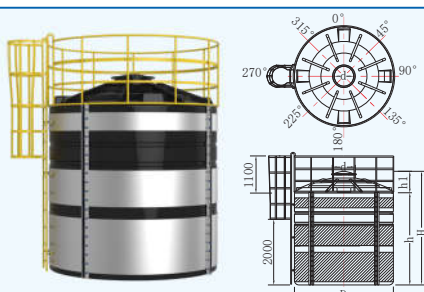
直径D	2650mm
人孔d	600mm
垂高h	2750mm
总高H	3400mm
平均厚度 Average thickness	
A	B 特 UL
	12 14 17

PT-18000L



直径D	2650mm
人孔d	600mm
垂高h	3380mm
总高H	4050mm
平均厚度 Average thickness	
A	B 特 UL
	14 15 18

PT-20000L



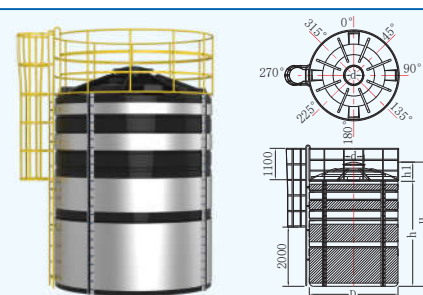
直径D	2850/3000mm
人孔d	600mm
垂高h	3300/2840mm
总高H	3970/3500mm
平均厚度 Average thickness	
A	B 特 UL
	14 16 19

注：所有尺寸标示为mm,有±5%误差,仅供参考,以实际尺寸为准!

Note: All dimensions are marked in mm, with ±5% error, for reference only, the actual size shall prevail!

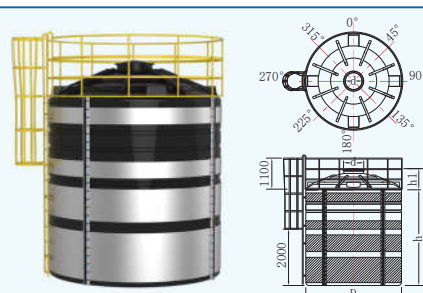
技术参数 Technical parameters

PT-25000L



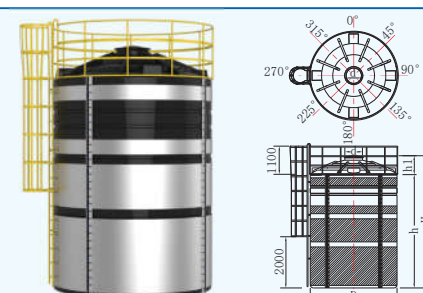
直径D	3000mm
人孔d	600mm
垂高h	3550mm
总高H	4250mm
平均厚度 Average thickness	
A	B 特 UL
	20 25

PT-30000L



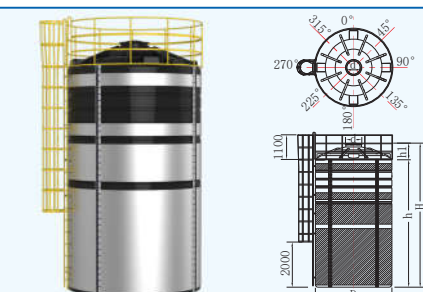
直径D	3000/3400mm
人孔d	600mm
垂高h	4460/3400mm
总高H	5140/4150mm
平均厚度 Average thickness	
A	B 特 UL
	21 25

PT-40000L



直径D	3400mm
人孔d	600mm
垂高h	4420mm
总高H	5200mm
平均厚度 Average thickness	
A	B 特 UL
	25 30

PT-50000L



直径D	3400mm
人孔d	600mm
垂高h	5660mm
总高H	6410mm
平均厚度 Average thickness	
A	B 特 UL
	31 35

注：所有尺寸标示为mm,有±5%误差,仅供参考,以实际尺寸为准!

Note: All dimensions are marked in mm, with ±5% error, for reference only, the actual size shall prevail!