



YHR TANKS & SILOS

GLASS FUSED TO STEEL

EPOXY COATED STEEL

STAINLESS STEEL



Email: sales@yhrtanks.com

Website: www.yhri.net

Tel: +86 010 6870 5137

Add: NO. 23 Building, Beijing Financial Security Industrial Park,
Fangshan District, Beijing



FOR A BETTER ENVIRONMENT

ABOUT YHR

Beijing Yingherui Environmental Technology Co., Ltd (as known as YHR), a Chinese National High-Tech Enterprise, is the global industry leading designer, manufacturer and erector of Bolted Steel Tanks and Silos. YHR has two modern and cutting-edge manufacturing facilities in Caofeidian city and Jinzhou city, Hebei Province, China.

In December 2019, YHR Environment and Guangdong Juncheng Biotechnology Co., Ltd. merged and reorganized into Junchengherui Environmental Technology Group Co., Ltd (referred to as "JCHR"). JCHR is a holding subsidiary of Guangdong Juncheng Investment Holding Co., Ltd., a Wens Group company.



A WENS GROUP COMPANY

○ The first and the largest Glass-Fused-To-Steel Tank and Epoxy Coated Steel Tank manufacturer in Asia

○ The first Chinese Glass-Fused-To-Steel Tank manufacturer certified by NSF/ANSI 61 Standard

○ YHR drafted the Chinese Standard QB/T 5379-2019 for Glass-Fused-To-Steel Tanks

OUR PRODUCTS

Glass Fused To Steel Tanks

Combines the advantages of both materials – the strength and flexibility of the STEEL and highest corrosion resistance of the GLASS.

Epoxy Coated Steel Tanks

Fusion Bonded Epoxy (FBE) is an electrostatically applied coating system with superior coverage and uniform coating thickness.

Stainless Steel Tanks

Stainless steel bolted tanks utilise the inherent corrosion resistance of stainless steel which can be used in many storage applications.



GLOBAL MARKET DISTRIBUTION

Currently YHR has delivered and built Bolted Steel Tanks and Silos in more than 60 countries and regions, this is all contributed by our local partners together.

World is big and small. The global market is very big but we can make it small by our close cooperation. Are you looking for a reliable partner? We would like to be that one.

60+
More than 60 countries and regions



OUR CLIENTS

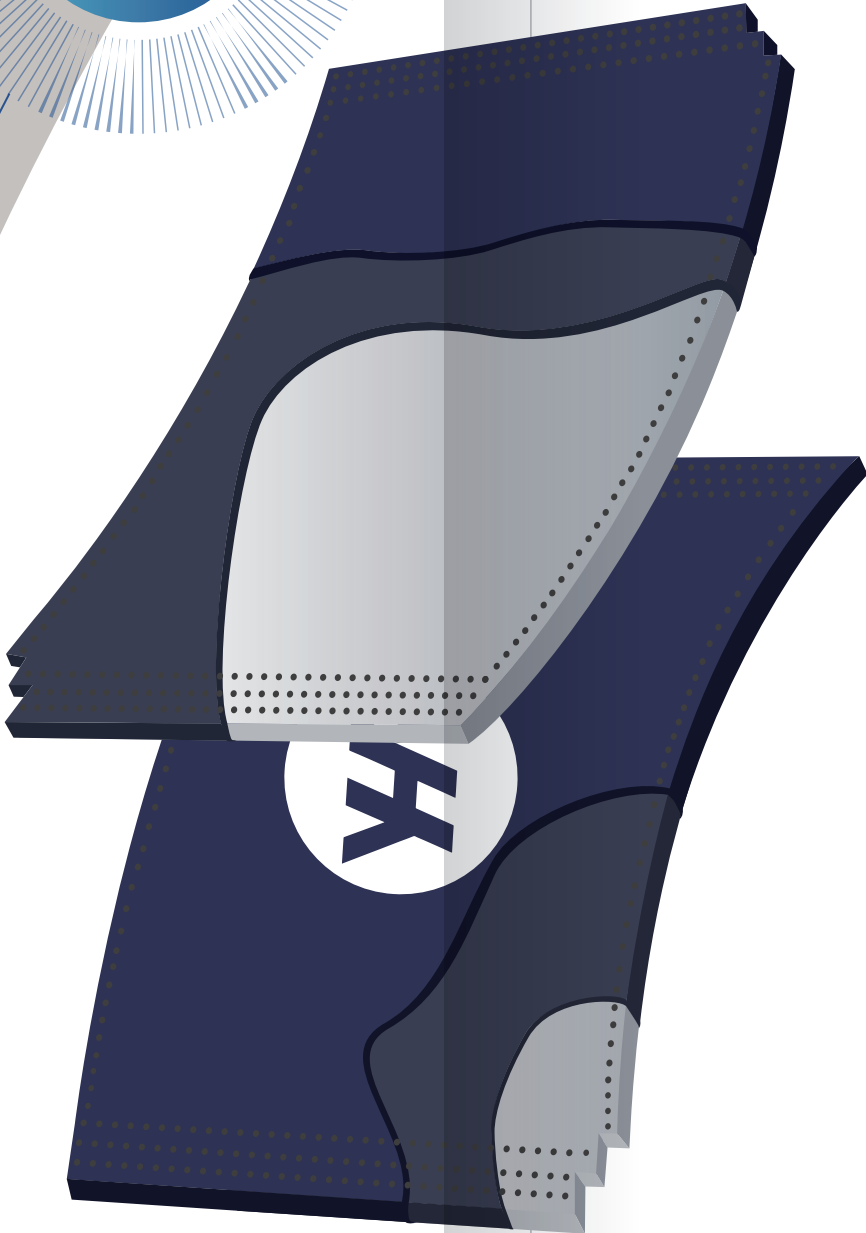
GLASS FUSED TO STEEL[®]

YHR Glass-Fused-To-Steel Technology, is a leading solution combines the advantages of both materials – the strength and flexibility of the STEEL and highest corrosion resistance of the GLASS. The Glass fused to the Steel at 1500 – 1650 deg. F (800 - 900 deg. C), become a new material: GLASS-FUSED-TO-STEEL with perfect anti-corrosion performance.

YHR has developed high-strength TRS (Titanium Rich Steel) plates specially produced for the Glass-Fused-To-Steel Technology, which can work perfectly with our glass frit and can eliminates the "Fish Scale" defect.



- Top Coat
- Base Coat
- Base Steel



01 Excellent anti-corrosion performance

02 Fast installation with better quality: design, manufacturing and quality control in factory

03 Safe, skill-free: less working aloft, no need for long time worker training

04 Less influenced by local weather

05 Maintenance-free and easy to repair

06 Possible to relocate, expand and reuse

07 Beautiful appearance

SPECIFICATION

YHR GLASS-FUSED-TO-STEEL TANK SPECIFICATION

Standard Color	RAL 5013 Cobalt Blue
Coating Thickness	0.25-0.45 mm
Coating Process	Standard 2 coats, 3 coats available
Adhesive	3450 N/cm
Elasticity	500 KN/mm
Hardness	6.0 Mohs
PH Range	Standard Grade 3~11 ; Special Grade 1~14
Holiday Test	acc. to tank application, 900V to 1500V
Service Life	more than 30 years

Standard Color

RAL 5013 Cobalt Blue	
Optional Colors:	RAL 6002 Leaf Green
	RAL 6006 Grey Olive
	RAL 9016 Traffic White
	RAL 3020 Traffic Red
	RAL 1001 Beige (Tan)

Certifications & Capabilities

- QB/T 5379-2019
- AWWA D103
- EN ISO 28765
- NFPA 22
- OHSA PT. 1910
- ISO 9001:2015
- NSF/ANSI 61
- Holiday Testing



EPOXY COATED STEEL

Fusion Bonded Epoxy (FBE) is an electrostatically applied coating system with superior coverage and uniform coating thickness. AkzoNobel high-tech RESICOAT R4-ES used on the internal surface combined with the ultra durable INTERPON D2525 on the external surface ensures high performance corrosion resistance for storage tanks and silos.

The internal coating RESICOAT R4-ES is NSF/ANSI 61 certified for drinking water contact, and the internal contact surface of every panels are zero defects tested at 1100v before delivering to the clients.



Internal Coating - RESICOAT® R4-ES

Application	Test	RESICOAT® R4-ES
Dry Film Thickness	Non-Destructive Test	6-10 mils / 150-250 microns
Hot Water Immersion 90 days, 70 °C	AWWA C550-05	Pass
Adhesion after 7 days, 90 °C water	ISO 4624	≥16MPa
Corrosion Resistance	Salt Spray ISO9227 / ASTM B117	Meets or exceeds industry norms
Impact Resistance	ASTM G14 3.2mm(1/8 in) steel plate	≥18 Joule
PH Range	-	3-13
Abrasion Resistance	Abrasion wheel ASTM 4060	CS-17, 1000g, 1000 cycles <40mg
Hardness	ISO15184 / ASTM D3363	2H
Chemical Immersion	50% NaOH, 50% H ₂ SO ₄	2 years no change
Holiday Test	1100v every panel	Discontinuity free (Zero defects at test voltage)

External Coating - INTERPON® D2525

Application	Test	INTERPON® D2525
Dry Film Thickness	Non-Destructive Test	6-9 mils / 150-230 microns (combination of an epoxy primer and polyester topcoat)
UV Resistance	Florida outdoor exposure testing	5 years
Color Stability	Florida outdoor exposure testing	5 years
Impact Resistance	ISO 6272	Pass Qualicaot Class 2 Requirements

STAINLESS STEEL TANKS



Indonesia

Gudang Garam Clove Silo Project

1630m³*15
Tank Capacity

Φ 11.39*16.72m (H)*15
Tank Dimensions

2020
Construction Time

Stainless steel is a group of iron-based alloys that contain a minimum of approximately 11% chromium that prevents the iron from rusting and provides heat-resistant properties. Stainless steel bolted tanks and silos utilise the inherent corrosion resistance of stainless steel which can be used in many liquid and dry bulk storage applications.

Without the need for any further protection stainless steel tanks and silos can give robust long-term service with the added benefit of an excellent recycling value when the tank is no longer required.



YHR TANKS & SILOS APPLICATION



Conical Steel Roof



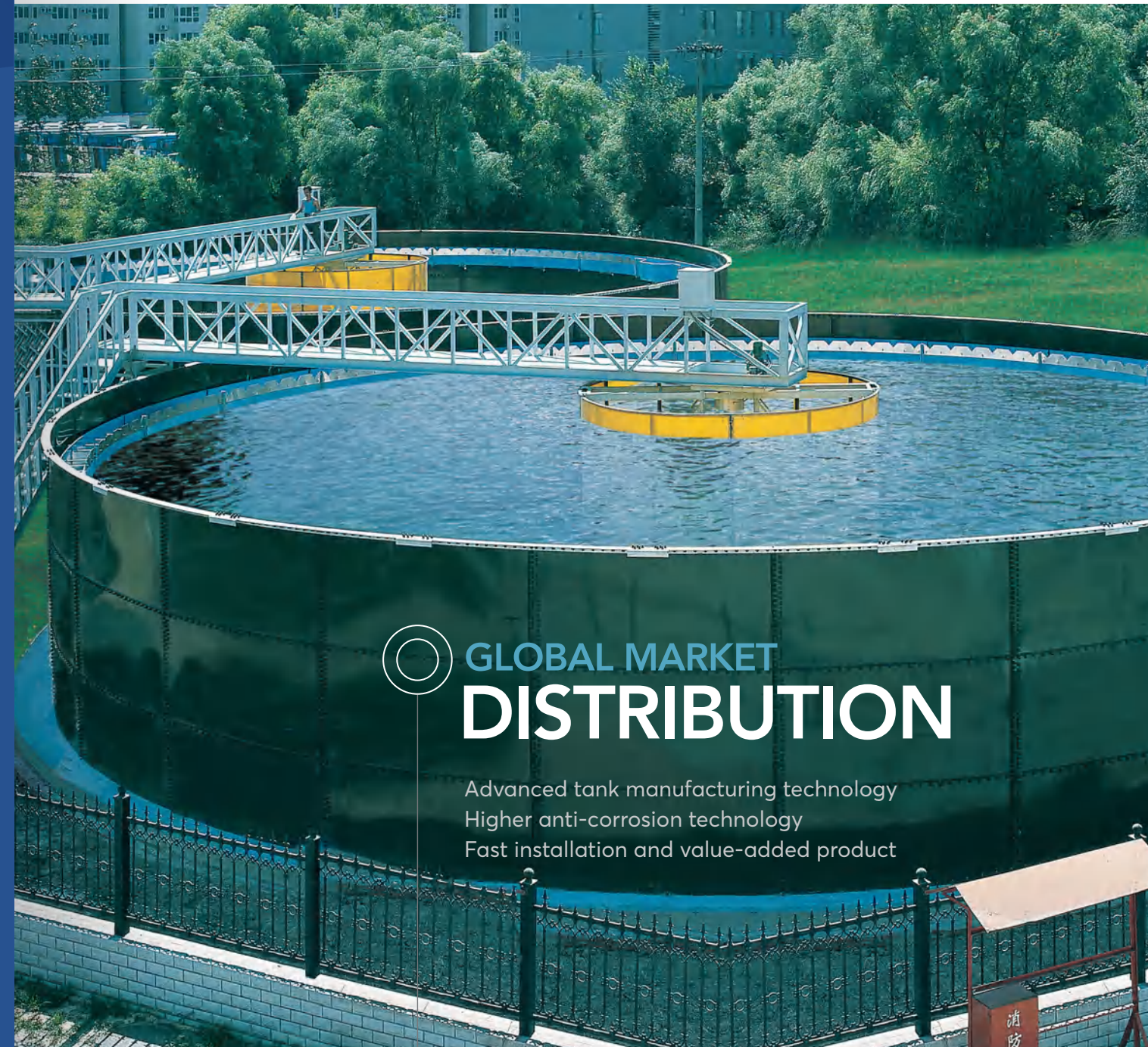
Aluminum Geodesic Dome Roof



Aluminum Trough Deck Roof



Double Membrane Roof



GLOBAL MARKET DISTRIBUTION

Advanced tank manufacturing technology
Higher anti-corrosion technology
Fast installation and value-added product



China

Olympic Park Sewage Treatment Project for 2008 Beijing Olympic Games

320m³*4
Tank Capacity

Φ 10.7 m*3.6 m(H)
Tank Dimensions

2006
Construction Time



Manila Water Potable Water Storage Project

Philippines

5390m³*4
Tank Capacity

Φ26.74*9.6 m(H)*4
Tank Dimensions

2015
Construction Time



ABEE Biogas Plant Project

Greece

170m³*2, 810m³*4
Tank Capacity

Φ7.64*3.6 m(H)*2, Φ10.7*9 m(H)*4
Tank Dimensions

2013
Construction Time



Russia

Danone WWTP Project

280m³*1, 650m³*2, 740m³*1
Tank Capacity

**Φ6.11*9.6 m(H),
Φ10.7*7.25 m(H)stainless steel tank*2,
Φ9.93*9.6 m(H)**
Tank Dimensions

2016
Construction Time



Thailand

Red Bull Malt Whiskey Alcohol Wastewater Storage Project

1740m³
Tank Capacity

Φ17.57*7.2m(H)
Tank Dimensions

2020
Construction Time



Chery Automobile WWTP Project

Brazil

110m³*2, 420m³*2
Tank Capacity

**Φ6.11*3.6 m(H)*2,
Φ12.22*3.6 m(H)*2**
Tank Dimensions

2013
Construction Time



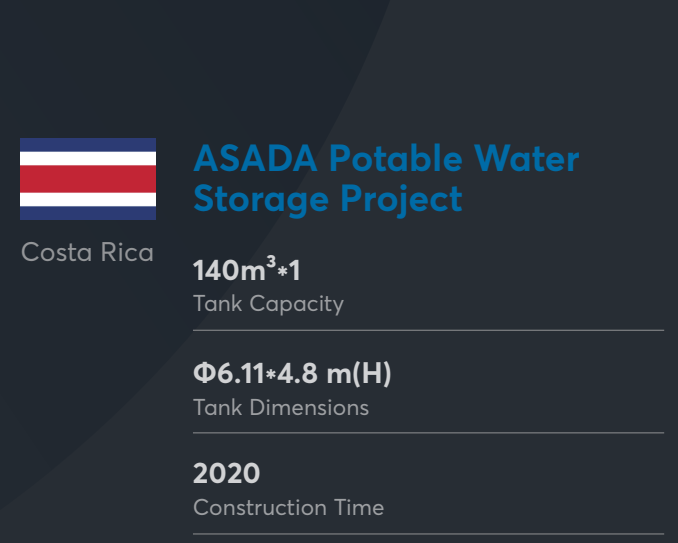
Costa Rica

ASADA Potable Water Storage Project

140m³*1
Tank Capacity

Φ6.11*4.8 m(H)
Tank Dimensions

2020
Construction Time





Chile

AB InBev WWTP Project

70m³*1, 180m³*1, 220m³*1, 460m³*1
Tank Capacity

**Φ3.82*6.0 m(H), Φ6.88*4.8 m(H),
Φ7.64*4.8 m(H), Φ9.93*6.0 m(H)**
Tank Dimensions

2019

Construction Time



Solomon Islands

Heineken Sewage Treatment Project

890m³*1, 110m³*1
Tank Capacity

**Φ13.75*6.0 m(H)*1,
Φ5.35*4.8 m(H)*1**
Tank Dimensions

2019

Construction Time



America

City of Chicago Fire Water Storage Project

500m³*1
Tank Capacity

Φ8.8*8.4 m(H)
Tank Dimensions

2020

Construction Time



Ghana

Coca-Cola Group Soft Drinks Plant Sewage Treatment Project

430m³*1, 860m³*2, 170m³*1
Tank Capacity

**Φ9.17*7.2 m(H), Φ12.99*7.2 m(H),
Φ6.88*5.4 m(H)**
Tank Dimensions

2020

Construction Time



Malaysia

Petronas (Malacca) Refinery Plant WWTP Project

700m³*3, 330m³*1, 170m³*1
Tank Capacity

**Φ12.22*6.0m(H)*3, Φ8.4*6.0m(H)
Φ6.88*4.8m(H)**
Tank Dimensions

2020

Construction Time



Cuba

Nestle Group Potable Water Storage Project

700m³*2
Tank Capacity

Φ9.17*11.4 m(H)*2
Tank Dimensions

2020

Construction Time

