DRY BULK STORAGE SOLUTIONS

GET CONNECTED TO UNMATCHED PERFORMANCE WITH TANK CONNECTION.
AT TANK CONNECTION, WE ENGINEER EXCELLENCE
Tank Connection is the leading bolted tank manufacturer for factory coated bolted storage tanks and aluminum geodesic dome covers for dry bulk and liquid storage applications. Tank Connection is a vertically integrated company assuring the best products available while maintaining competitive pricing.

WE EXCEED EXPECTATIONS
Tank Connection is committed to helping clients find success with their projects. It is the utmost devotion to the customer that drives an unyielding pursuit of excellence that is the embodiment of Tank Connection.

WE OWN A REPUTATION OF SUCCESS
Tank Connection is an employee owned company, manufacturing American-made products in multiple ISO 9001 certified facilities in the U.S. Tank Connection has built a reputation of success with a passion for safety, innovation and continuous improvement.

WE FACILITATE COMPREHENSIVE SOLUTIONS
Tank Connection focuses on listening to clients and providing them with factual information on different types of storage containment options. This approach to service clients is based on the development of a broad product line of superior storage tank products, designs and field services.
At Tank Connection, quality and safety are second nature. Tank Connection’s field installation utilizes a synchronized jack process, which allows field crews to install tanks at grade level. This process receives the highest industry ratings for quality control and safety in the field.
WHEN IT COMES TO SAFETY, WE’VE GOT BOTH FEET ON THE GROUND.

THE SAFEST FIELD INSTALLATION PROCESS IN THE INDUSTRY.

Tank Connection jacking systems are stored at various locations around the world for expeditious results at the lowest factored cost.

WE JACK THE LARGEST BOLTED TANKS IN THE WORLD FROM GRADE LEVEL.

AN ISO 9001 CERTIFIED QMS COMPANY
THE RECOGNIZED EXPERTS IN STORAGE TANK SOLUTIONS

When it comes to precision design and expert knowledge, Tank Connection maintains one of the most comprehensive engineering departments in the tank industry. With an extensive in-house staff of PE’s, project managers, and drafting services, Tank Connection is able to offer bulk storage tank construction tailored for any global location.

Starting with steel procurement at the mill and finishing with construction services in the field, all design, manufacturing, project management, system integration and field installation services are available through Tank Connection’s experienced personnel.

Tank Connection offers heavy, robust tank designs that are designed for low maintenance and long term performance. Tank Connection’s bolted RTP (rolled, tapered panel) tank construction outperforms all other types of bolted tank construction through its superior design, proprietary coating systems and safe field installation processes. Let Tank Connection’s expert industrial designers and shop technicians, with decades of experience in tank production, turn your specifications into a specialized tank built to last.

### Common Code Requirements

- IBC (International Building Code)
- UBC (Uniform Building Code)
- Eurocode
- ASCE (American Society of Civil Engineers)

### HEAVY MODULAR TANK DESIGN

**FIELD WELDED**
- **DESIGN** A
- **BEST QUALITY**
- **PANEL TYPE** Horizontal rolled
- **APPLICATION** Heavy bulk ind., power industry

**BOLTED RTP**
- **DESIGN** A
- **BEST QUALITY**
- **PANEL TYPE** Horizontal RTP
- **APPLICATION** Heavy bulk ind., power industry

**BOLTED RTP**
- **DESIGN** B
- **GOOD QUALITY**
- **PANEL TYPE** Horizontal RTP
- **APPLICATION** Heavy bulk ind., power industry

### LIGHT MODULAR TANK DESIGN

**BOLTED API12B FLANGED PANEL**
- **DESIGN** C
- **MARGINAL QUALITY**
- **PANEL TYPE** Vertical flanged
- **APPLICATION** Grain, light bulk, plastics, other

**CORRUGATED PANEL**
- **DESIGN** D
- **LOWEST QUALITY**
- **PANEL TYPE** Corrugated
- **APPLICATION** Grain
Bolted RTP design is a combination of the best features of bolted and field welded storage tanks. The modular design allows for easy shipping and safe, grade level installation. Robust construction and precision engineering make Tank Connection's bolted RTP well-adapted to all climates, geology and weather conditions. It is easy to see why it is the product of choice for dry bulk applications worldwide.
**BOLTED RTP PERFORMANCE. THE COMPETITION SIMPLY DOESN’T STACK UP.**

<table>
<thead>
<tr>
<th>BOLTED RTP DESIGN</th>
<th>API 12B DESIGN</th>
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<tbody>
<tr>
<td>Seal: EPDM gasket</td>
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<tr>
<td>Heavy modular design: Up to 1/2” plate</td>
<td>Light modular design: Up to 1/4” plate</td>
</tr>
<tr>
<td>Precision fabrication quality</td>
<td>Inconsistent flange panel fabrication</td>
</tr>
<tr>
<td>Hopper attachment: Shop welded (upper and lower compression attachment)</td>
<td>Hopper attachment: Bent plate (same as corrugated grain tanks)</td>
</tr>
<tr>
<td>Interior coating: Dry Fusion 5500 FBE™ + EXT Fusion SDP™</td>
<td>Interior coating: Powder coating primer</td>
</tr>
<tr>
<td>Exterior coating: Dry Fusion 5500 FBE™ + EXT Fusion SDP™</td>
<td>Exterior coating: Acrylic urethane</td>
</tr>
<tr>
<td>Lap joint panel connections = No leak design</td>
<td>Chime connections = Leaks</td>
</tr>
<tr>
<td>Jack-built = Grade level crews</td>
<td>Scaffold-built = Elevated crews</td>
</tr>
<tr>
<td>External ledge: None (smoothwall)</td>
<td>External ledge: Yes (2” horizontal ledge)</td>
</tr>
<tr>
<td>Internal ledge: None (smoothwall)</td>
<td>Internal ledge: Yes = Product contamination</td>
</tr>
<tr>
<td>Long life + Low maintenance</td>
<td>Limited life + High maintenance</td>
</tr>
<tr>
<td>Superior aesthetics</td>
<td>Poor aesthetics</td>
</tr>
<tr>
<td>Rating: Excellent</td>
<td>Rating: Poor</td>
</tr>
</tbody>
</table>

**COMMON TYPES OF BOLTED RTP TANKS PROVIDED BY TANK CONNECTION**

- **SKIRTED DRIVE THROUGH**
- **COLUMN ENCLOSURE**
- **FULL SKIRT**
- **BOLTED LUG**
- **SHORT SKIRT ON STRUCTURAL STEEL**
- **FLAT BOTTOM**
Superior engineering combined with advanced coating technology make Tank Connection bolted RTP designs ideal for any bulk storage application, in any environment. The modular design of a bolted RTP is a logistically sound approach as it is easily containerized for expeditious shipping and installation anywhere in the world. A long track record of versatility and durability has proven bolted RTP design to be the best storage solution for mainstream and customized applications alike.
Tank Connection has been at the forefront of innovation and technology in the storage industry since its inception. Tank Connection continues to evolve its products and their capabilities to provide the best products in the market. The hybrid tank design is a Tank Connection innovation that developed from our power utility applications. This versatile design combines the best qualities of Bolted RTP, field welded and concrete tank construction.

Game-Changing Innovation

Tank Connection provides premier tank designs including API 650, API 620, ASME and AWWA D100 construction. Tank Connection minimizes the large piece count shipped to the field to minimize field construction time frames.

Go Big! Field Welded Design

- Sand Storage, Monahans, TX
- Soybean Meal, Hanford, CA
- Limestone, Quinton, AL
- Fly Ash, Muscatine, IA
- Cement Terminal, Whangarei, New Zealand
- Carbon, Armistead, LA
Tank Connection specializes in material flow discharge systems. Tank Connection is recognized as the design and fabrication experts for functional mass flow storage systems. Flow testing depicts that functional mass flow discharge can be achieved with reduced hopper slopes by utilizing Tank Connection's proprietary fusion bond coating system. Reduced hopper slopes equate to cost savings for the client.

Tank Connection remedies the storage problems of the past by prescribing the correct variables of hopper slope, outlet size, outlet configurations, materials of construction and surface finish, active flow-aid devices, passive flow-aid devices, internal and external coatings systems, applicable codes and the correct flow type required for reliable material flow. Some standard hopper product offerings include:

- Functional mass flow
- Funnel flow
- Expanded flow
- Active/vibratory discharge
- Numerous configurations of fluidized hopper designs
- Typical hopper slopes: 45° to 70°
- Custom slopes
- Custom design chisel hopper designs
- Hopper capacities from 1,000 – 125,000 ft³

**FUNCTIONAL MASS FLOW DESIGN**
- Smooth, steep hopper
- First-in, first-out
- Fine powders deaerate
- Segregation problems are minimized
- Material is fed uniformly at constant density

**FUNNEL FLOW DESIGN**
- Lower headroom
- First-in, last-out
- Lower storage cost
- Excellent for coarse, free-flowing materials
FUSION COATING TECHNOLOGY. UNMATCHED PROCESSES. UNRIValed RESULTS.

Tank Connection maintains two state-of-the-art fusion powder coating lines, each over 200 yards (182.88 m) in length. The system and controlled station processes are unmatched by any other tank manufacturer. The proprietary fusion powder coating systems offered by Tank Connection are designed for high chemical resistance, corrosion resistance, flexibility, chip resistance, weatherability and UV protection.

STANDARD COLORS
- TC TAN  RAL1001
- TC WHITE  RAL9016
- TC LIGHT BLUE  RAL5024
- TC LIGHT GREEN  RAL6019
- TC GRAY  RAL7035

PREMIUM COLORS
- TC GRAY  RAL7035
- TC COBALT BLUE  RAL5011
- TC FOREST GREEN  RAL6005

The colors shown are printed approximations. The exact color can be viewed using RAL standard color samples.
**DURABILITY**

Impact Resistance: Per ASTM D2794

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<thead>
<tr>
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**WALL FRICTION PROPERTIES**

Reduced hopper slope = reduced tank height & lower installed cost

**CHARACTERISTICS**

- Outstanding toughness with proven weatherability
- Fusion bonded to FBE primer
- Gloss retention @ 60°: >80 ±5 GU
- Enhanced resistance to chalking or fading
- Superior exterior durability
- Best warranty in the industry
- Can not be scratched off independent of the base coating

**SPECIFICATION & PERFORMANCE**

**Film Thickness** 6-10 mils DFT

**** When EXT Fusion SDP™ topcoat is used over DRY Fusion 5500TM primer.

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**PHYSICAL PROPERTIES**

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</tr>
<tr>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060-07 (CS-10, 1000g, 3000 cycles)</td>
</tr>
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<td>Abrasion Resistance</td>
<td>ASTM D968 - 690 Liters sand</td>
</tr>
<tr>
<td>Chip Resistance</td>
<td>ASTM D3170-03</td>
</tr>
<tr>
<td>Heat Resistance: Dry</td>
<td>Temperature (°F) 300°F (149°C)</td>
</tr>
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<td>ASTM D522</td>
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<td>Pull Test</td>
<td>ASTM D4541</td>
</tr>
<tr>
<td>Scrape Adhesion</td>
<td>ASTM D2197</td>
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<td>ASTM D2247</td>
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**SPECIFICATION & PERFORMANCE**

**Film Thickness** 5-9 mils DFT

**Surface Profile** SSPC SP10 near white metal blast

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**CHARACTERISTICS**

- Superior product flow promotion qualities
- Fusion bonded to substrate surface
- Abrasion, chip and scrape resistant
- Can be repaired in the field if damaged
- Superior test performance compared to all other coatings
- Does not crack or spall
- Excellent chemical and corrosion resistance
- Best warranty in the industry

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BULK STORAGE COVERS THAT OUTPERFORM

- Strongest Space Frame Design
- Optimum Cost Efficiency
- Clear Span Design
- Factory Direct Installation
- Quick Field Installation
- Superior Aesthetics

Proprietary Node Design
The spun aluminum hub cover provides a precision seal.

New Construction
Retrofit Applications
Customized Designs

Prevents Environmental Concerns & Product Loss
Water-Tight Design
Maintenance Easy
Extended Service Life

Engineered Excellence
Custom Designed for Bulk Handling, Loading & Miscellaneous Loads

Size Range
27,100 ft³
3.3 - 33.8 m³

Corrosion Resistant
Aluminum Construction

Batten Bar Detail
Panel Batten Silicone Gasket

A Better Batten Bar
A more robust system. The only batten bar engineered with three redundant features to provide a leak-free design.

Panel Batten Silicone Gasket
ELEVATE YOUR EXPECTATIONS!

- Tank Connection designs and builds the highest quality products that will stand the test of time
- Honesty, integrity and a targeted focus on client success and satisfaction are paramount
- Tank Connection is home to the leading experts with the most experience in the industry
- Quality, technological innovation and accountability are driven by a progressive vision

WE WILL MEET AND EXCEED YOUR EXPECTATIONS!

REQUEST A QUOTE AND GET CONNECTED WITH REAL PERFORMANCE FROM THE INDUSTRY LEADER, TANK CONNECTION!

TANK CONNECTION: 3609 North 16th Street, Parsons, KS 67357
PHONE: +1 620-423-3010 EMAIL: sales@tankconnection.com
WEB: TANKCONNECTION.COM WEB: APEXDOMES.COM

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