“Racking Solutions to meet all your storage needs”

Racking System

TSSC is the leading manufacturer of racking systems offering a range of customized industrial storage & warehouse solutions to meet all storage needs. The racking systems can be broadly classified as:

- Selective Pallet Racking
- Drive In Pallet Racking
- Very Narrow Aisle Pallet Racking
- Double Deep Pallet Racking
- Multi-tier Racking

With state of the art manufacturing and storage facilities spread across Sharjah and Dubai in UAE, TSSC can meet any volume requirement in tight timelines. The facilities are equipped with fully automated powder coating line and fabrication units.

TSSC’s pallet racking storage systems are designed to allow maximum space utilization within any facility and conform to international standards. Our pallet racking systems are robust, safe, versatile and expandable.

TSSC follows ISO 9001:2008 quality management and delivers products with consistent quality standards. We differentiate our products from our competition with the use of high quality materials and accessories. In addition to the standard items we offer, our engineering department custom designs for our customers anything from a single rack component to an entire warehouse system.
INTERACK UPRIGHT

Upright is cold formed on rolling mill into omega profile, flanges have punched holes at 75mm spacing to accept bolted bracing sections.

The front face is punched with twin slots set at 75mm increments to accommodate end connectors. Interack frames are available in 3 sizes & 2 different gauges.

INTERACK BEAMS

Beams are fabricated from twin ‘G’ section, interlocked to form rectangular box section & welded at each end to compatible steel connector to effect attachment to the frame. Open section beams are available for light duty pallet loads or shelving applications.

Beams are adjustable on vertical pitch of 75mm. Each beam has steel lock to prevent accidental removal.
Selective Pallet Racking

INTERACK selective racking is the most cost effective storage system requiring minimum capital investment. It provides 100% accessibility & allows excellent stock rotation by providing direct access to all pallets. Pallets can be located, accessed & moved individually, allowing rapid handling of palletized goods.

With the system being adjustable & offering wide range of options & components, it is equipped to accommodate specialized load types.
Drive-in Racking

Drive-in and Drive-through (sometimes spelled Drive-thru) are storage rack configurations that allow the forklift to drive directly into the lane of stacked rows (called a bay). Depending on whether the bay has entry at only one end or at both ends, the system of nomenclature becomes drive-in or drive-thru pallet rack system. The difference between a drive-in and a drive-thru pallet rack system is simply whether the bays have an entry at only one end, or at both ends.

Drive-in rack systems use a common entry and exit. As the drive-in racking system has only one entrance, it uses the storage method called LIFO (last in, first out). The last pallet put into a row is the first one to be taken out.

A drive-thru storage system, with two different entry points, can also be used as a FIFO (first in, first out) storage method. The first pallet put into a row is the first one taken out from the other end. This system is most suitable for storing material with quick expiration date and wherever shelf life is a major concern.
VNA Pallet Racking

VNA (Very Narrow Aisle) racking system makes optimum use of floor area & roof height while providing high density storage with 100% accessibility & good stock rotation at the same time.

The system is served using specialized high lift fork and rotating material handling devices operating in very narrow aisles. The benefit of this is saving up to 50% in aisle width when compared to counter balance fork lift, by achieving up to double the stack height.
Double Deep Pallet Racking

In cold storage applications, where space costs a premium, double-deep racking system generates considerable cost savings. Double-deep racking is the most effective storage system in situations where stock requires to be moved quickly.

The use of double-deep stacking increases warehouse capacity by up to 30% compared to single-deep warehouse system. The fact that the telescopic fork lifts reach twice as far as normal fork lifts from one side allows the racking at each side of the aisle to be doubled. In comparison to drive-in, which is a narrow aisle racking and also requires specialized warehouse trucks, Double Deep Pallet racking offers better accessibility.
Multi-Tier Rack Supported Mezzanine

INTERACK Multi-tier racking system is the fastest way to add extra floor space within the shade of an existing building. It allows businesses to double their floor space without changing premises. It also allows to create separate zones within one centralized facility so that separate areas can be created depending on requirement.
Galvanized Gratings

Features:
• Standard Size: 3,000mm L x 200mm W x 40mm H (Length can be up to 6 meters)
• Load capacity ranging from 500kg to 1,000 kg UDL per square meters with an unsupported length of 1,000mm.
• Non-standard lengths available.
• High abrasion and corrosion resistance.
• Slotted design for better lighting.
• Ideal for mezzanine floors, walkways, staircases and beam level.

Converter

Open Type Pallet Converter:
• Stackable units
• Material: Hot Dip Galvanized or powder Coated.
• Ideal for cold storage applications.
• Space utilizer
• Compatible with all types of pallets.
• 1,000 kg- 2,000 kg load capacity.
Powder Coating

INTERACK Powder Coating stands out in the market for its highest standards of powder coating finish. This is achieved through an elaborate eco-friendly pre-treatment process followed by powder coating using our fully automated coating facility.

The surface preparation of the pretreatment plays a vital role which affects the long-term performance of the product in terms of durability and esthetic appearance. All INTERACK components are subjected to an eight-step pre-treatment, which consists of Degreasing, Pickling, and Phosphating. This elaborate process removes all traces of oil and grease, mil scales and rust and provides a layer of Iron Phospahe which acts as an anti rust layer.

Due to our elaborate pre-treatment and powder coating process, all our components possess the following properties.

- High impact resistance
- No runs or drips
- Better scratch resistance
- High abrasion resistance
- Excellent color retention

Subsequent to the pre-treatment process the components are coated with epoxy polyester powder to a thickness of 50-60 micros and it is followed by baking them in the oven.

The standard color scheme is as follows:
Frame : RAL 5005 Blue
Beam : RAL 2000 Orange
Other colors are available upon request
Quality Design Standards

All INTERACK Pallet racking components comply with strict safety regulations. The design standards that we follow to achieve this comply to:

**BS 5950 Part 1985 5**
Code of Practice for Design of Cold Formed Sections in Steel

**SEMA FEM 10.3.01**
Adjustable Beam Pallet Racking Tolerances, Deformations & Clearances

**SEMA**
Code of Practice for the Design of Static Racking

**SEMA**
Code of Practice for the use of Static Pallet Racking
Since inception in 1961, TSSC, a primary member of Harwal Group has been setting manufacturing benchmarks in the region with its engineering excellence. The ISO 9001:2008 certified company manufactures a diverse range of products and offers a range of services from its facilities spread across Sharjah, Dubai and Abu Dhabi. TSSC is the largest manufacturer of insulated panels for roofing and cladding in the Middle East. The building materials manufactured by TSSC are fire rated and carry individual product certifications. With over 4 decades of experience, state of the art manufacturing facilities and the largest production capacity in the Middle East, TSSC manufactures products to international quality standards and cater to customer demands by ensuring timely delivery and providing exceptional service.

Range of Products Manufactured by TSSC

Building Materials
- Composite Panels
- Profiled Cladding Sheets
- Seamless Roofing System
- Glass & Aluminum Systems
- Doors & Windows

Cold Storage & Transportation
- Cold Rooms
- Freezer Rooms
- Refrigerated Vehicles

Metal Storage Solutions
- Racking Systems
- Metal Sheds

Refrigerators & Coolers
- Visi coolers & Freezers
- Water Coolers
- SS Refrigerators & Freezers

Stainless Steel Equipments
- Laundry & Kitchen
- Hospital

Housing Systems
- Affordable Houses
- Modular Houses
- Portacabins
- Prefab Houses
- Telecom Shelters
- Container Converted Units

Services
- Galvanizing

Harwal Group is an international manufacturing conglomerate specialized in various manufacturing technologies with headquarters in UAE. With a diverse range of products that serve a spectrum of industries, we build valuable partnerships with our customers and provide them excellent service.

Our Group companies in the Gulf region include Cosmoplast, Interplast, Intermetal, TSSC, Technomec, Emirates Recycling, Union Beverages Factory and Harwal Containers Manufacturing. Collectively, they cater to diverse market sectors with a customer base spanning across the Middle East, Europe, USA, Asia Pacific, Africa, CIS and beyond.

In the GCC, Harwal Group is the largest converter of plastic, wood and metals into finished products. Harwal Group productlines comprise of building materials, pipeline systems, electrical and plumbing systems, prefabricated solutions, packaging materials and consumer packaging products, cold rooms & refrigerators, beverages, household and commercial equipments, furniture and other relevant allied manufacturing services. The other operations include luxury yacht chartering & brokerage and manufacturing & supply of industrial machineries which are based outside the Middle East.

Our Group companies lay great emphasis on our core values such as quality, service and dependability in order to achieve our objective of manufacturing innovative and high quality products for our customers. All our companies are ISO 9001:2008 certified and follow stringent quality parameters in manufacturing goods that meet international product specifications and standards.
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