SAVING MONEY IS REAL DEAL

CHL FORKLIFT BANGLADESH LTD.

CONTACT US

CHL FORKLIFT BANGLADESH LTD.

PHONE : +88 01774-197848

EMAIL : manager@chlforkliftbd.com

WEBSITE : www.chlforkliftbd.com

ADDRESS : Flat 09, House 17, Street 14,
Sector 13, Uttara, Dhaka,

CHL FORKLIFT BD

CHL FORKLIFT BANGLADESH LTD.

SOLUTION FOR INTEGRATED WAREHOUSING





RACK
Space-efficient storage systems

MATERIAL HANDLING
Forklifts, stackers & reach trucks

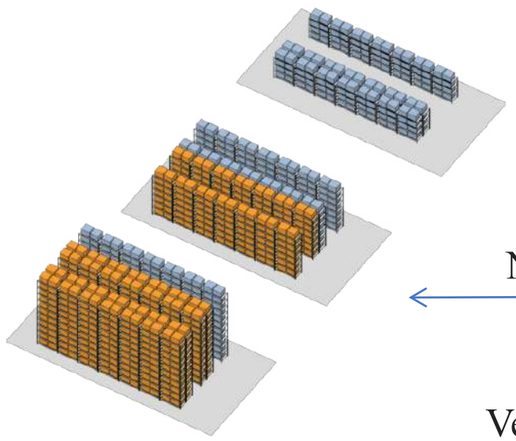
WAREHOUSE TECHNOLOGY
WCS / WMS / Automated storage

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WELCOME TO
CHL FORKLIFT BD LTD!

The **CHL BD LTD** is a professional industrial company for integrated warehouse supplier and electric forklift & electric stacker marketing company in Bangladesh.
Integrated warehousing is an indispensable component of the modern industrial system.

As the name suggests, compared with conventional warehousing, it delivers higher industrial standards, greater space utilization efficiency, and lower inventory costs.
An integrated warehousing system consists of rack system, goods handling vehicles and pallets. A fully automated stereoscopic warehousing system additionally includes inbound outbound handling equipment, the Warehouse Control System (WCS) for cargo movement and access control, as well as the Warehouse Management System (WMS) for warehouse administration and transaction logging.
For different cargo storage requirements, integrated warehousing systems fall into five categories: conventional integrated warehousing, narrow aisle integrated warehousing, very narrow aisle integrated warehousing, long material integrated warehousing, and fully automated stereoscopic warehousing.



Conventional warehousing

Narrow Aisle warehousing

Very Narrow Aisle warehousing

The core objective of the integrated warehousing solution is to significantly improve warehouse storage density and space utilization efficiency and reduce inventory costs within limited physical space through effective measures such as rationally layout cargo , narrowed down operational aisle width, and enhanced multi level storage capacity.

Our company delivers turn key overall solutions for integrated logistics and warehousing under the EPC model, covering planning and design of integrated warehouse, process design of warehouse logistics, supply of storage racks and accessories, selection and supply of warehousing equipment, as well as installation and commissioning on site.







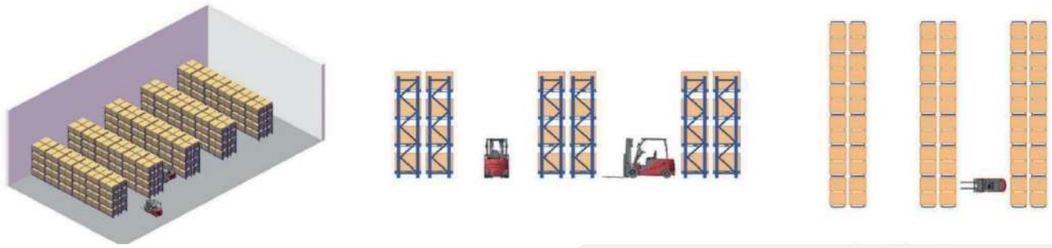
01 | SOLUTIONS FOR INTEGRATED WAREHOUSING

1. Conventional Integrated Warehousing

Applicable to: mess, special shaped cargo with large variations in unit weight and dimensions, as well as warehouses with low ceiling height.

Features:

1) Use heavy duty racks or heavy duty special pallets with a small number of tiers;
2) Relatively wide rack aisles, generally ranging from 3.5 m to 4.5 m;
3) Rack height: 0 – 6 m





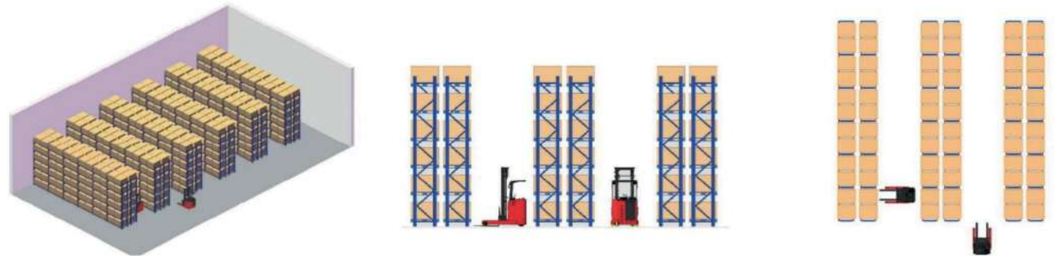
Selection of Goods handling equipment: Forklifts of the CPC / CPD / MK series are generally selected. For unit cargo of relatively light weight, low level stackers of the CDD / CTD / CPD / MB series are also available.

2. Narrow Aisle Integrated Warehousing

Applicable to: mess goods but with moderate unit weight and simple profiles, as well as warehouses with high ceiling height.

Features:

1) Use special assembled racks with a large number of tiers;
2) Narrower rack aisles, generally ranging from 2.5 m to 3 m;
3) Rack height: 0 – 12.5 m;
4) High density storage; storage efficiency is increased by 140 160 % compared with conventional warehousing.





Selection of Goods-Handling Equipment

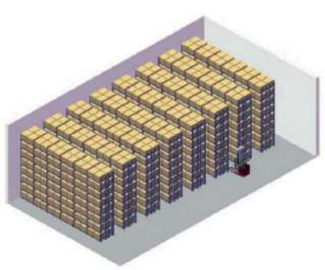
1. Low Rack Height (≤ 5.5 m): MJ Articulated Forklift, CDD/CTD/CPD/MB Stackers, CQD/MF Reach Trucks, OP Order Pickers.
2. High Rack Height (≥ 6 m): MQ Multi-Directional Forklift, MC Three-Way Stackers, MJ Articulated Forklifts, MF Reach Trucks, MH High-Level Order Pickers.

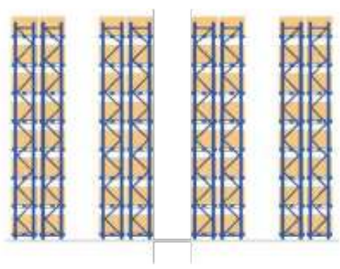
3. Very Narrow Aisle Integrated Warehousing

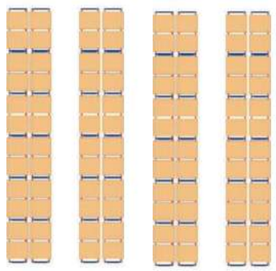
Applicable to: mess goods of low unit weight, varying dimensions and simple profiles, as well as warehouses with high ceiling height.

Features:

1) Use professional assembled racks with a large number of tiers;
2) Very narrow rack aisles, generally ranging from 1.5 m to 1.65 m;
3) Rack height: 0 – 14.2 m;
4) Ultra high dense storage; storage efficiency is increased by 200 % compared with conventional warehousing.











Selection of Goods handling equipment : Only MC series three way pallet stackers can be adopted.

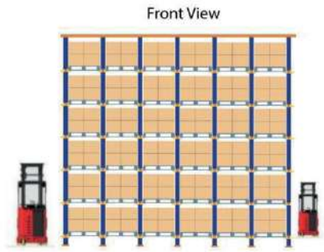
4. Channel Integrated Warehousing

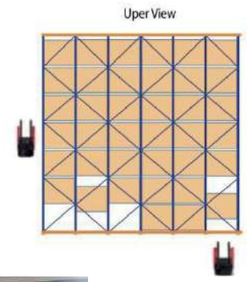
Applicable to: mess goods of single or few product categories with identical dimensions, stored in warehouses with high ceiling height. It is especially suitable for products following the principle of “first in, first out” , such as pharmaceuticals, foodstuffs and time limited chemicals.

Features:

1) Use professional assembled racks with multiple tiers; goods are loaded from one side and unloaded from the other side.
2) Internal channels in rack assembly. No aisles are reserved between racks for vehicle; vehicle operating aisles with a general width of 1.8 m 3.5 m are only arranged around the rack assembly.
3) Rack height: 0 – 12 m.
4) Ultra high dense storage; storage efficiency is increased by 300 % compared with conventional warehousing.









Selection of Goods-Handling Equipment:

Low Rack Height (≤ 5.5 m): CPC/CPD/MK Forklifts, CQD/MF Stackers, CQD Reach Trucks.
High Rack Height (≥ 6 m): MC High-Level Stackers, MF/MFE/MFZ Reach Trucks, MJ Articulat-

5. Integrated Warehousing for Long Material

Applicable to: mess goods with heavy unit weight, extra long dimensions and relatively few categories, housed in warehouses with high ceiling height.

Features:

1) Use professional assembled cantilever racks with multiple tiers;
2) Relatively narrow rack aisles, generally ranging from 2.5 m to 3 m;
3) Rack height: 0 – 11 m; storage capacity compared with normal warehousing increases by approximately 60 %;
4) Fork carriage can be extended up to 6.0 m.







Selection of Goods-Handling Equipment:

For narrow aisle warehousing of long materials, only MQ series multi-directional (four directional) forklifts shall be adopted. For conventional rack warehousing, counterbalance forklifts are also an option..

6. Fully Automated Stereoscopic Warehousing

The fully automated stereoscopic warehousing system is a complex automated and intelligent storage system integrating hardware equipment, software control and racking structures. The pallet four way shuttle type automated dense warehousing system is one of its variants.

The hardware of the pallet four way shuttle stereoscopic warehousing system mainly consists of pallet four way shuttle racks, intelligent four way shuttles, elevators for pallet cargo and shuttle layer transfer, inter layer conveying lines and other components.

The core of the system integrated software technology is the deep integration of the Warehouse Management System (WMS) and the Warehouse Control System (WCS). Combined with AGV forklifts, the system can realize short range inbound and outbound handling, automatic put away, automatic inventory inquiry and retrieval, so as to achieve fully automated operations.

Applicable to: mess goods of low unit weight, small dimensions and a wide variety of SKUs, housed in warehouses with high ceiling height.

Features:

1) Use professional shuttle rack assembly with multiple tiers;
2) No aisles between racks for vehicles can maximize utilization of storage space;
3) Has extremely high warehousing and material handling efficiency with fully automated operations;
4) The number of storage locations increases by 33 % compared with VNA warehouses; the storage efficiency rises by nearly 300 % versus conventional integrated warehousing





02 | SELECTION OF HANDLING VEHICLES

Material handling vehicles applicable to integrated warehousing systems fall into the following six major categories:



Forklifts
CB Forklift:
CHL CPC/CPD | 1–5 tons | 3–6 m lift
High-lift CB Forklift:
MiMA MK | 1.5–5 tons | 4.5–7.5 m



Electric Stackers
Low level Stacker:
CHL CBS/CDD/CPD/CTD, MiMA MB, STAXX WS |
Capacity: 0.9–2 t | Lift: 1.4–5.5 m
Order Picker:
CHL OP, MiMA MH |
Capacity: 0.15–1.5 t | Lift: 1.14–10.5 m



Reach Trucks
Mast Reach Truck:
CHL CQD, MiMA MF/MFZ |
Capacity: 1.2–3 t | Lift: 5.5–12.5 m
Fork Reach Truck:
MiMA MFE |
Capacity: 1.4–2 t | Lift: Up to 10.16 m



Multi-Directional Forklifts
Three-Way Pallet Stacker:
MiMA MC |
Capacity: 0.8–1.6 t | Lift: 9–14.2 m | Fork Rotation: 180°
Multi-Directional Forklift:
MiMA MQ |
Capacity: 1.5–8 t | Lift: 5–11 m | Travel: 360° Multi-Directional
Articulated Forklift:
MiMA MJ |
Capacity: 2–3 t | Lift: Up to 12.5 m | Mast Swing: 210° + Side-Shifter



AGV Automatic Forklifts
AGV Forklifts:
MiMA MBV/MK/MKV |
Capacity: 1.6–4 t | Lift: 1.6–6 m
AGV Stackers:
MiMA MF/MFV/MQV/MC/MB |
Capacity: 1–3.5 t | Lift: 1.6–14.2 m
AGV Pallet Trucks:



Pallet Trucks

CHL CBD | 1.5–3.5 tons
MiMA ME | 1.5–6 tons (custom up to 10 tons)
STAXX EPT/PPT | 1.5/2 tons

03 | SUPPLY OF METAL RACKS

Metal racks are a key part of modern warehousing systems, designed according to the size, weight, and type of stored goods. Our solutions include Beam Racks, Channel Racks, Cantilever Racks, and Four-Way Shuttle Racks.

Racks are manufactured from high-quality cold-rolled steel with rust protection, phosphating, and durable powder coating for high strength, long service life, and easy installation.

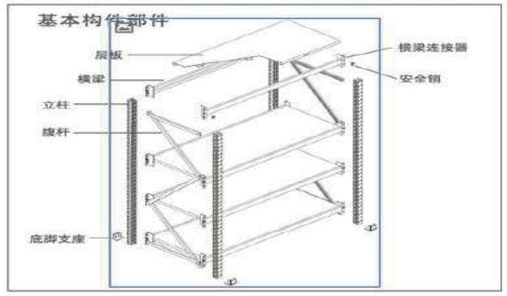
Beam Racks are the most widely used, offering simple structure, high adaptability, and easy loading/unloading. Available in Light-Duty, Medium-Duty, and Heavy-Duty options.

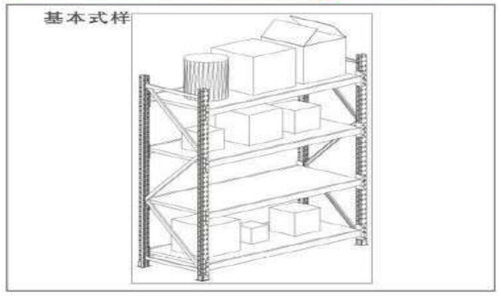
1. Light & Medium Duty Racks

100–200 kg/level (light) | 200–800 kg/level (medium)
Uprights, beams and shelf panels; dimensions based on rack size and load requirements.



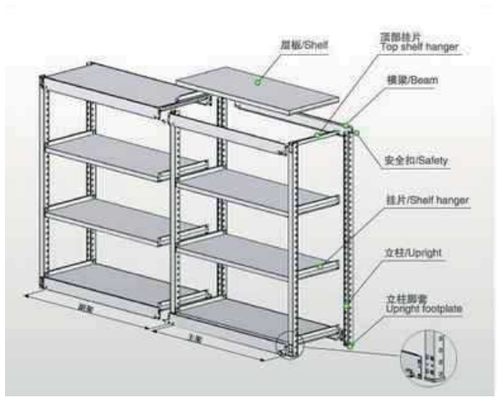


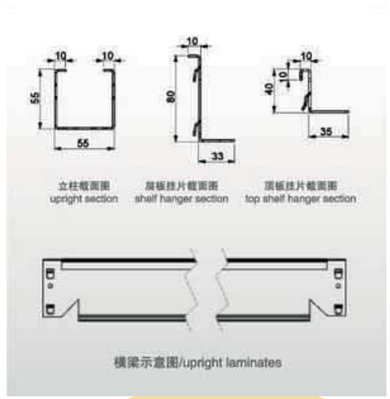




2. Heavy Duty Racks

Heavy duty racks are similar to light duty racks, yet adopt heavier gauge materials and deliver high load bearing capacity up to 800 5000 kg per tier. They feature convenient assembly and flexible height adjustment. Heavy duty racks are the most commonly used rack type for warehousing in industrial enterprises.







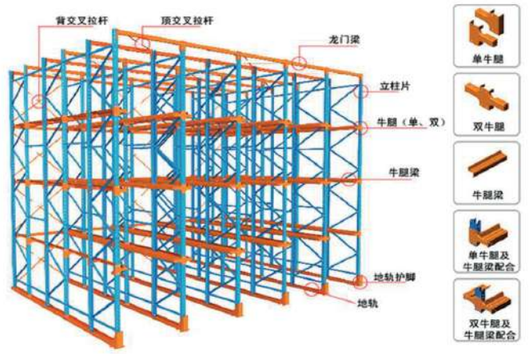


3. Channel Racks

There are two structural differences compared with beam type racks:

1.) The connecting bars between uprights are mounted on one side of the beams. This creates open spaces framed by uprights and beams, where paired beams form various runners and channel space. Goods and pallets are loaded from one side of the rack and unloaded from the other side.

2.) No operating aisles need to be reserved between racks for vehicle, which maximizes storage space utilization. Its storage capacity is approximately three times that of conventional racks, greatly reducing warehousing costs.





4. Cantilever Racks

Cantilever racks are warehousing equipment designed for storing long form materials, ring shaped goods and irregular shaped items. They consist of cantilever arms mounted onto uprights; the cantilever arms can be either fixed or adjustable.

The main structure is built with H section steel or cold formed steel uprights. Cantilever uprights are mostly made of cold rolled hollow pre punched steel sections and connected to the base by welding or bolt assemblies. The base is fitted with base plates for floor anchoring and can be fabricated from H section steel or special purpose profiles. Cantilever arms are made of square tubes, H section steel or cold formed steel. They attach to uprights via pin connections or bolted joints for adjustable vertical spacing.

Such racks are available in single sided and double sided configurations, as well as single arm and double arm variants. By load bearing capacity, they are classified into light duty, medium duty and heavy duty types. Cantilever arm length is generally within 1.5 m, with typical per arm load capacity up to 1000 kg. Standard rack height is below 2.5 m (maximum up to 6 m).



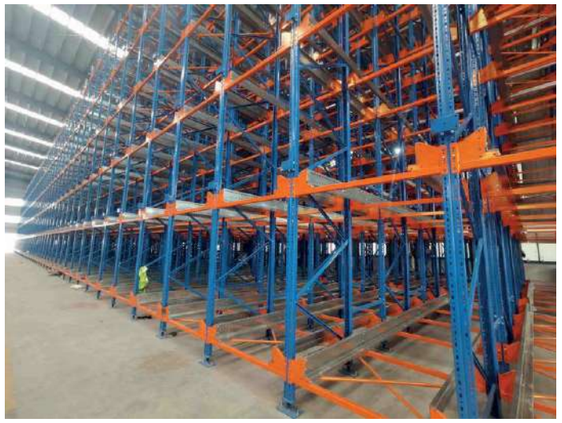


5. Four-Way Shuttle Racks

Four way shuttle racks are mainly assembled from upright frames, support beams, sub tracks, main tracks, tie rods, end supports and direction change tracks to accommodate the movement of four way shuttle vehicles.









Racking construction

Uprights, beams and steel shelf panels are cold-rolled from steel strip according to design, followed by rust removal, degreasing, phosphating and electrostatic epoxy powder coating or painting for high strength, durabilityand ease of installation

04 | OPTIONAL ACCESSORIES

Positioning Magnetic Strip

Guides three-way stackers in narrow and very-narrow aisles and helps prevent collision with racking.





Mechanical Guide Rail

Restricts and guides three-way stackers in narrow and very-narrow aisles; guide rail height ≥ 100 mm.



Racking Accessories

Stacking frames, knock-down stacking frames, steel pallets and turnover boxes.







