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## INDUSTRIAL PRODUCT RANGE



We Are Much More Than **Plastics....**



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## ABOUT US

**NILKAMAL LIMITED**, a **Rs. 1843.37 crores (US\$ 307 million)** [(F.Y. 2012-13) as on 31st March 2013] company is into manufacture of molded plastic material handling crates and furniture. We are a Public Limited company listed on the Bombay Stock Exchange. Supported by sales network of more than 400 sales personnel operating through over 51 regional offices and 39 warehouses across India. We are truly **A One Stop Shop For Material Handling Solutions**.

Our portfolio of products manufactured & marketed includes the following:

- Plastic crates & pallets
- PP Corrugated Boxes
- Textile Partition Packaging for scratch sensitive products  
(JV with ConTeyor Multibag Systems NV, Belgium)
- Storage systems in metal (Mfg JV with BITO Lagertechnik Bittmann GmbH of Germany)
- Exhaustive range of Material Handling Equipments
- Forklift Trucks & Warehousing Systems from Mitsubishi Forklift Trucks
- Very Narrow Aisle Forklift Trucks that maximize warehousing space from Aisle Master - the leading international brand of VNA trucks.
- Specialised forklift trucks for long loads and Multidirectional movement from CombiLift.
- VNA Man Up turret trucks for order picking in high density warehouses from Magaziner.
- Vacuum Lifting equipments from Vaculex
- Automated Vertical Storage & Retrieval Systems from Hanel, Germany
- Road Safety Products
- Insulated Boxes
- Insulated Fish Tubs
- Pre fab construction
- Fruit ripening chambers and cold storage
- Floating fish cages
- Underground drainage systems
- Waste Bins – Mfg roto moulded waste bins and marketing EN 840 Compliant Waste Bins from Plastic Omnium, France. Well accepted across progressive civic bodies across India.

Apart from material handling, we are India's No 1 manufacturer of plastic chairs and plastic furniture. We have also successfully ventured in home décor retail segment with our own signature store chain across major Indian cities - @home, having over 19 stores each with an approximate area over 20,000 Sq ft per store.

We have a joint venture with **CAMBRO Mfg. Co. USA** now for a significant presence in the Food & Beverage Service Business for the Hospitality Industry and count India's best Hotels and kitchen services amongst our established customers.

**Manufacturing strength – 9 Global scale factories across India, all ISO 9001:2008 Certified.**



Regd. Office & Works :  
VASDNA (UT of D & NH) (WESTERN INDIA)



KHARADPAD (UT of D & NH) (WESTERN INDIA)



BARJORA (WEST BENGAL) (EASTERN INDIA)



SINNAR (MAHARASHTRA) (WESTERN INDIA)



GREATER NOIDA (U.P.) (NORTHERN INDIA)



PUDUCHERRY (TAMIL NADU) (SOUTHERN INDIA)



HOSUR (TAMIL NADU) (SOUTHERN INDIA)



PHASE II, SAMBA (JAMMU & KASHMIR)  
(NORTHERN INDIA)



Nilkamal BITO Storage Systems Pvt. Ltd.  
PHASE II, SAMBA  
(JAMMU & KASHMIR) (NORTHERN INDIA)

### Recognitions :

Star Export House



ISO 9001 : 2008 Certification



### Joint Ventures :



### Distributorships / Marketing Agents :





## INJECTION MOLDED (SERIES) CRATES :

Nilkamal pioneered the use of Plastic crates in India and has maintained leadership position in the Indian market. Innovation, a proactive approach to customer needs has led us to offer the widest range of molded plastic crates in the Indian market, catering to practically every user segment and also creating some in the process. No wonder that we count the best and most demanding names in the Indian Industry amongst our established customers. This section gives extensive information on our range of Injection Molded Crates (also known as Series Crates) for various industries. You will find detailed lists of models and respective versions along with their outer and inner dimensions that would help you make your buying choices easier.



Giant Crates Used In Automotive Battery Assembly



Crates Used In Storage & Handling



Crates On Shop Floor Of Engineering Workshop



# INDUSTRY STANDARD CRATES

## 300 X 200 SERIES CRATES

All Crates have built-in-handles & are made from Food Grade H.D.P.E.



Model	Available Versions	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
32070	CC / CCF	300 x 200 x 70	265 x 165 x 60
32100	CC / CCF	300 x 200 x 100	265 x 165 x 95
32120	CC / CCF	300 x 200 x 120	265 x 165 x 115
32150	CC / CCF / FPO	300 x 200 x 150	265 x 165 x 145
32200	CC / CCF	300 x 200 x 200	265 x 165 x 195

## 400 X 300 SERIES CRATES

All Crates have built-in-handles & are made from Food Grade H.D.P.E.



Model	Available Version	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
43065	CC / CCF	400 x 300 x 65	365 x 265 x 60
43090	CC / CCF	400 x 300 x 90	365 x 265 x 85
43100	CC / CCF	400 x 300 x 100	365 x 265 x 95
43120	CC / CCC / CCF	400 x 300 x 120	365 x 265 x 115
43150	CC / CCF / JR	400 x 300 x 150	365 x 265 x 145
43175	CC / CCF / CH / CHF / JBC / JR	400 x 300 x 175	365 x 265 x 170
43220	CC / CCF / CH / CHF	400 x 300 x 220	365 x 265 x 215
43230	CC / CCC	400 x 300 x 230	365 x 265 x 225
43240	CC / CCC / CCF	400 x 300 x 240	365 x 265 x 235
43270	CC / CCF	400 x 300 x 270	365 x 265 x 265
43320	CC / CCF / CH / CHF	400 x 300 x 320	365 x 265 x 315



# INDUSTRY STANDARD CRATES

## 500 X 325 SERIES CRATES All Crates are made from Food Grade HDPE.



CC Version : Complete Closed



CH Version : Closed with Handle



CCF Version :  
Complete Closed With Flat Bottom



FPO Version : Front Partly Open



JBC Version :  
Jali Bottom Closed



JR Version :  
Jali (Perforated) Regular



LID53000 With Locking Clips  
For 500 x 325 series crates



Model	Available Version	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
53100	CC / CCF / CH / CHF	500 X 325 X 100	465 X 290 X 90
53150	CC / CCF / CH / CHF / JBC / JR / FPO	500 X 325 X 150	465 X 290 X 140
53200	CC / CCF / CH / CHF / JBC / FPO	500 X 325 X 200	465 X 290 X 190
53250	CC / CCF / CH / CHF / JBC / FPO	500 X 325 X 250	465 X 290 X 240
53360	CC / CCF / CH / CHF / JBC / JR	500 X 325 X 360	465 X 290 X 350

## 540 X 360 SERIES CRATES All Crates are made from Food Grade HDPE.



CC Version :  
Complete Closed



CH Version :  
Closed With Handle



JBC Version :  
Jali Bottom Closed



JR Version :  
Jali (Perforated) Regular



LID5436000 With Locking Clips  
For 540 x 360 series crates



Model	Available Version	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
5436205	CC / CCF / JR	540 X 360 X 205	510 X 328 X 195
5436275	CC / CCF / CH / CHF / JBC / JR	540 X 360 X 275	510 X 328 X 265
5436295	JR	540 X 360 X 295	515 X 335 X 285
5436300	CC / CCF / CH / CHF / JBC	540 X 360 X 300	510 X 328 X 290
5436340	CC / CCF / CH / CHF / JBC	540 X 360 X 340	510 X 328 X 330
5436400	CC / CCF / CH / CHF / JBC	540 X 360 X 400	510 X 328 X 390



# INDUSTRY STANDARD CRATES

## 600 X 400 SERIES CRATES

All Crates are made from Food Grade HDPE.



CC Version : Complete Closed



CH Version : Closed With Handle



JBC Version : Jali Bottom Closed



JR Version : Jali (Perforated) Regular



CHDW Version :  
Closed with Handle With  
Double Wall



CCC Version :  
Complete Closed with Criss  
Cross Bottom



CCF Version : Complete Closed  
With Flat Bottom



WR Version :  
Without Ribs



LID64000  
With Locking Clips

Model	Available Version	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
64080	CC / CCF / CCS / JBC / JBS / JR / JRSJ / JBF	600 X 400 X 80	565 X 365 X 75
64120	CC / CCC / CCF / CCS / CH / CHC / CHF / CHS / JBC / JBCHC / JBS / JR / JRHC / JRSJ / JBF	600 X 400 X 120	565 X 365 X 115
64150	CC / CCF / CCS / CH / CHF / CHS / JBC / JR	600 X 400 X 150	565 X 365 X 145
64160	CC / CCF / CCS / CH / CHF / CHS / JBC / JBS / JBF / JR	600 X 400 X 160	565 X 365 X 155
64175	CC / CCF / CH / CHF / JBCHC / JBCNJ / JBCNJHC	600 X 400 X 175	565 X 365 X 170
64200	CC / CCF / CH / CHF / JBC	600 X 400 X 200	565 X 365 X 195
64220	CC / CCC / CCF / CH / CHF / JBC / JBF / JR	600 X 400 X 220	565 X 365 X 215
64230	CCC / CCF / CHC	600 X 400 X 230	565 X 365 X 225
64240	CC / CCF / CH / CHF / JBC	600 X 400 X 240	565 X 365 X 235
64280	CC / CCF / CH / CHF / JBC	600 X 400 X 280	565 X 365 X 275
64285	CC / CCF / CH / CHF / JBC / JR	600 X 400 X 285	565 X 365 X 280
64300	CC / CCF / CH / CHF / JBC	600 X 400 X 300	565 X 365 X 295
64320	CC / CCC / CCF / CCFWR / CHF / CHFWR / CH / JBC / JR	600 X 400 X 320	565 X 365 X 315
64340	CCC / CCF	600 X 400 X 340	565 X 365 X 335
64350	CC / CCDW / CH / CHDW	600 X 400 X 350	565 X 365 X 345
64375	CC / CCF / CH / CHF / JBC / LSO	600 X 400 X 375	565 X 365 X 370
64400	CC / CCF / CH / CHF / JBC	600 X 400 X 400	565 X 365 X 395
64425	CC / CCC / CCF / CH / CHF / JBC	600 X 400 X 425	565 X 365 X 420
64450	CCC	600 X 400 X 450	565 X 365 X 445
64485	CC / CCF / CH / CHF / JBC / JR / FPO	600 X 400 X 485	565 X 365 X 480

# INDUSTRY STANDARD CRATES

## 600 X 400 SERIES CRATES (DW)

All Crates are made from Food Grade HDPE.



Model : CC64080 with dome handle



Model : JBC64120 with flat handle



Model : JR64120SJ with dome handle



Model : CH64175 with flat bottom



Model : CC64160 with small square bottom



Model : CC64175 with criss cross bottom



DW : Double Wall



D : Dome Handle



F : Flat Handle

VERSION	MODEL NO.	DESCRIPTION	HANDLE	CRATE DIMENSTIONS (IN MM )
64080	CCSD64080DW	Complete Closed Small Square Bottom & Dome Handle	DOME	620 X 400 X 80
	CCS64080DW	Complete Close Small Square Bottom	FLAT	600 X 400 X 80
	CCFD64080DW	Complete Closed Flat Bottom & Dome Handle	DOME	620 X 400 X 80
	CCF64080DW	Complete Closed Flat Bottom	FLAT	600 X 400 X 80
	CCC64080DW- always flat handle for criss cross stack	Complete Closed Criss Cross Bottom (with Flat Handle only)	FLAT	600 x 400 x 80
64120	CCSD64120DW	Complete Closed Small Square Bottom & Dome Handle	DOME	620 X 400 X 120
	CCS64120DW	Complete Closed Small Square Bottom	FLAT	600 X 400 X 120
	CCFD64120DW	Complete Closed Flat Bottom & Dome Handle	DOME	620 X 400 X 120
	CCF64120DW	Complete Closed Flat Bottom	FLAT	600 X 400 X 120
	CCC64120DW -always flat handle for criss cross stack	Complete Closed Criss Cross Bottom (with Flat Handle only)	FLAT	600 X 400 X 120
	JRSD64120DWSJ	Jali Regular & Dome Handle	DOME	620 X 400 X 120
	JBCSD64120DW	Jali Bottom Closed Small Square Bottom & Dome Handle	DOME	620 X 400 X 120
64160	CCSD64160DW	Complete Closed Small Square Bottom & Dome Handle	DOME	620 x 400 x 160
64175	CCSD64175DW	Complete Closed Small Square Bottom & Dome Handle	DOME	620 X 400 X 175
	CCS64175DW	Complete Closed Small Square & Flat Handle	FLAT	600 X 400 X 175
	CCFD64175DW	Complete Closed Flat Bottom & Dome Handle	DOME	620 X 400 X 175
	CCF64175DW	Complete Closed Flat Bottom & Flat Handle	FLAT	600 X 400 X 175
	CCC64175DW -always flat handle for criss cross stack	Complete Closed Criss Cross Bottom (with Flat Handle only)	FLAT	600 X 400 X 175

All Crates are available with criss cross / small square & flat bottoms except 64160 which is available with small square bottom



# JUMBO CRATES

All Crates are made from Food Grade HDPE.

**Nilkamal Ltd.**, India's leading manufacturers and pioneers in the field of material handling crates offer a wide range of high capacity storage crates. Our **Mini Jumbo, Jumbo, Maha Jumbo and Double Wall Jumbo Crates and Giant crates** are ideal for a variety of storage applications across Industries. These crates are made from hygienic food grade HDPE and are ideally suited for handling food products also. Light weight and easy to wash and clean, they are rust free and maintenance free. High volume, high capacity; ideal for storage and transportation in bulk and heavy duty applications.



CC Version : Complete Closed



CH Version : Closed With Handle



JBC Version : Jali Bottom Closed



JR Version : Jali (Perforated) Regular



DW Version : Double Wall



LID6545000 With Locking  
Clips For JUMBO Crates

Model	Available Version	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
6545195	CC / CH / JBC / JR	650 X 450 X 195	610 X 405 X 185
6545205	CC / CCF / CH / CHF / JBC / JR	650 X 450 X 205	610 X 405 X 195
6545210	CC / CH / JBC / JR	650 X 450 X 210	610 X 405 X 200
6545315	CC / CCF / CH / CHF / JBC / JR / DW	650 X 450 X 315	610 X 405 X 305
6545480	CC / CCF / CH / CHF / JBC / JR	650 X 450 X 480	610 X 405 X 470





# GIANT CRATES

All Crates are made from Food Grade HDPE.



Storage needs have grown with the growth in Industry and **Nilkamal** has always provided the right product to match. Our **GIANT CRATES** are a perfect solution to large storage needs. Made from food grade industrial HDPE, they are easy-wash, easy-clean, rust free and do not require maintenance. Easily stackable and also allow sufficient ventilation. **Nilkamal's Giant Crates** have a huge capacity of 163 litres, equal to nearly 8 smaller crates. It is an excellent choice for dumping fruits, flowers or vegetables. Ideal long lasting replacement for traditional cane / wooden or cloth lined crates for farms, nurseries, grading godowns or cold storages etc. Can also be fitted with wheels (optional) for easy mobility.



CC Version : Complete Closed With Wheels



CH Version : Closed With Handle



JBC Version : Jali Bottom Closed



JR Version : Jali (Perforated) Regular



LID85000 : Roto Molded Lid for Giant Crates

Model

85425

Available Version

CC / CH / JBC / JR / W

Outer Dimensions  
(L x B X H in mm.)

810 X 568 X 425

Inner Dimensions  
(L x B X H in mm.)

763 X 521 X 410

*Also available with wheels (Optional)*





# CONDUCTIVE CRATES

Nilkamal Conductive crates are made from specially permanent blended raw material which prevents or dissipates electric charges. They are highly recommended for the industries which are handling and using highly sensitive electronics components. The excellent characteristics of the material are highly regarded in Electronics / Electrical / Mechanical Engg., Data Processing, Mining Ammunition & in explosive manufacturing industries. All types of packaging & handling equipment manufactured, gives the necessary protection, particularly for modern electronic components, complete modules and assembled printed circuit boards & other static sensitive devices (SSD). Nilkamal has a wide range of crates, PCB holders, PCB crates, Injection Molded crates, lids & FPO crates.

**Basic Material :** Polypropylene Copolymer (PPCP) • **Conductive Additive :** Carbon Black • **Color :** Black • **Working Temperature :** Approx. 80-90°C(Continuous) , Approx. 100-110°C (Short Term) • **Surface Resistance :**  $\leq 10^4$  Ohms cm • **Volume Resistance :**  $\leq 10^5$  Ohms cm • **No Migration of corrosive substance** • **Aging Behavior :** No Derating of Conductivity Outstanding Ultraviolet Resistance



300 X 200 SERIES CRATES



400 X 300 SERIES CRATES



ELECTRO CONVEYANCE DRAWERS



PCB PANELS & CRATES



500 X 325 SERIES CRATES



600 X 400 SERIES CRATES



ELECTRO CONVEYANCE CRATES



PCB PANELS & CRATES



MAXCRATE30CON



MAXCRATE40CON

## MAX CRATES

Model	Available Versions	Outer Dimensions (L x B x H in mm.)	Inner Dimensions (L x B x H in mm.)
32100CON	CC	300 x 200 x 100	265 x 165 x 95
32150CON	CC	300 x 200 x 150	265 x 165 x 145
32200CON	CC	300 x 200 x 200	265 x 165 x 195
43090CON	CC	400 x 300 x 90	365 x 265 x 85
43120CON	CC	400 x 300 x 120	365 x 265 x 115
43175CON	CC	400 x 300 x 175	365 x 265 x 170
43220CON	CC	400 x 300 x 220	365 x 265 x 215
43320CON	CC	400 x 300 x 320	365 x 265 x 315
53100CON	CC / CCF	500 X 325 X 100	465 X 290 X 90
53200CON	CC	500 X 325 X 200	465 X 290 X 190
53250CON	CC	500 X 325 X 250	465 X 290 X 240
64120CON	CC	600 X 400 X 120	565 X 365 X 115
64175CON	CC	600 X 400 X 175	565 X 365 X 170
64220CON	CC / CH	600 X 400 X 220	565 X 365 X 215
64285CON	CC	600 X 400 X 285	565 X 365 X 280
64320CON	CC	600 X 400 X 320	565 X 365 X 315
64375CON	CC	600 X 400 X 375	565 X 365 X 370

LIDS FOR THE ABOVE SERIES CRATES (LID32000 + LID43000 + LID53000 + LID64000) ALSO AVAILABLE IN CONDUCTIVE SERIES



① FPOCRATE1CON ② FPOCRATE1PCON ③ FPOCRATE5CON  
④ FPOCRATE15CON ⑤ FPOCRATE25CON ⑥ FPOCRATE35CON









## FRONT PARTLY OPEN CRATES

Model	Available Versions	Outer Dimensions (L x B x H in mm.)	Inner Dimensions (L x B x H in mm.)
FPOCRATE1CON	FPO	95 x 102 x 52	61 x 100 x 50
FPOCRATE1PCON	FPO	95 x 102 x 52	61 x 100 x 50
FPOCRATE5CON	FPO	160 x 115 x 80	120 x 100 x 75
FPOCRATE15CON	FPO	200 x 125 x 100	160 x 105 x 190
FPOCRATE25CON	FPO	230 x 150 x 125	180 x 130 x 115
FPOCRATE35CON	FPO	300 x 210 x 160	275 x 204 x 149
FPOCRATE45CON	FPO	350 x 210 x 200	305 x 190 x 190
MAXCRATE20CON	MAX	230 x 130 x 125	-----
MAXCRATE30CON	MAX	300 x 180 x 145	-----
MAXCRATE40CON	MAX	450 x 180 x 145	-----
MAXCRATE47CON	MAX	295 x 365 x 145	-----
DWMAX20CON	MAX	110 (L) x 110 (H)	-----
DWMAX30/40CON	MAX	155 (L) x 125 (H)	-----
ECC12CON	MAX	230 X 164 X 154 (Box Size)	149 X 72 X 31 (Drawer Size)
ELECTRODRAWERCON	MAX	Crate with 3 partitions and 4 pockets	149 X 72 X 31 (Drawer Size)

# ACCESSORIES

NILKAMAL brings three decades of experience into designing plastic accessories which enhance the value of the crates in a speciality / dedicated application otherwise difficult to achieve. Standardising these accessories has helped in giving economic & quick solutions to the customer's Material Handling Problems. We are sure that these accessories will give you a perfect solution for your needs.

## TABLE HOLDERS

 <p><b>SMALL</b> : 55 mm x 35 mm</p>	 <p><b>BIG</b> : 80 mm x 52 mm</p>	 <p><b>BAJAJ SMALL</b> : 36 mm x 85 mm</p> <p><b>BAJAJ BIG</b> : 55 mm x 85 mm</p>	
 <p><b>TOYOTA</b> - 180 mm x 70 mm</p>	 <p><b>NAGARA</b> - 220 mm x 62 mm</p>	 <p><b>MARUTI</b> - 148 MM X 52 MM</p>	

## 'L' TYPE SPACERS

**L- Type Patti (without cut)**  
To increase the height of the crate  
(welded on all the 4 corners)

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**L- Type Patti (with cut)**  
To increase the strength  
& stiffness of corners of the crate

## ACRYLIC LABEL HOLDERS





Available in different sizes

## ACRYLIC FLAPS



**FPO 53150** - 214 mm x 97 mm  
(with locking pins)

Available in different sizes  
for FPO CRATES & BINS

## HANDLE ACCESSORIES

 <p>Complete Closed Handle With Grip</p>	 <p>PVC Rod with Ring for removing the rod in crates</p>	 <p>Welded And Screwed Handles provided for lifting the crates (in complete closed models)</p>
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## CLOSING COVERS



Closing Cover used as a cover for crate

## SOFT / HARD FOAM



Soft (PE) Foam



Hard (XLPE) Foam

Soft & hard foam used in crates for delicate components like tail lamp, head lamp etc.

## LEGS



Legs : For support in special applications

## 'U' TYPE CHANNEL



'U' TYPE CHANNEL  
for 3 & 5 mm. removable partitions.



# ROTO MOLDED CRATES

Innovatively designed large capacity heavy duty crates made from state of the art machinery. Prime choice of Textile Industry.



## MODELS AVAILABLE :

Model	Outer Dimensions (L x B X H in mm.)	Capacity (approx.)
RMC43150	400 X 300 X 150	14 Litres
RMC43175	400 X 300 X 175	16 Litres
RMC43220	400 X 300 X 220	20 Litres
RMC4828230	480 X 280 X 230	22 Litres
RMCOR6125350	615 X 255 X 350	40 Litres
RMC6429340	645 X 295 X 340	40 Litres
RMC5236325	525 X 365 X 325	50 Litres
RMC7842215	775 X 420 X 215	51 Litres
RMCOR6633285	660 X 330 X 285	52 Litres
RMC64285	600 X 400 X 285	60 Litres
RMC9855150	980 X 550 X 140	61 Litres
RMC7853230	780 X 530 X 230	65 Litres
RMC64320	600 X 400 X 320	70 Litres
RMC9055150	900 X 550 X 150	70 Litres
RMC5941380	595 X 410 X 380	75 Litres
RMC64375	600 X 400 X 375	80 Litres
RMC5941440	595 X 410 X 440	90 Litres
RMC6046500	600 X 460 X 500	90 Litres
RMC6047420	600 X 470 X 420	103 Litres
RMC86235	800 X 600 X 235	105 Litres
RMC9745315	975 X 450 X 315	115 Litres
RMC9746330	975 X 467 X 330	120 Litres
RMC6666312	665 X 665 X 312	125 Litres
RMC85330	810 X 568 X 330	127 Litres

Product list not exhaustive



# ROTO MOLDED CRATES

Innovatively designed large capacity heavy duty crates made from state of the art machinery. Prime choice of Textile Industry.



## MODELS AVAILABLE :

Model	Outer Dimensions (L x B X H in mm.)	Capacity (approx.)
RMC6041585	600 X 410 X 585	130 Litres
RMC6565370	650 X 650 X 370	135 Litres
RMC6666390	665 X 665 X 390	150 Litres
RMC6564430	650 X 645 X 430	150 Litres
RMC13045315	1300 X 450 X 315	155 Litres
RMC84640	815 X 410 X 640	190 Litres
RMC8242640	820 X 420 X 640	200 Litres
RMC86445	800 X 600 X 445	205 Litres
RMC8254540	820 X 545 X 540	220 Litres
RMC8256600	820 X 565 X 600	250 Litres
RMC8259660	820 X 590 X 660	265 Litres
RMC9462520	948 X 628 X 520	300 Litres
RMC1171675	1100 X 710 X 675	410 Litres
RMC9875710	980 X 750 X 710	450 Litres
RMC11476635	1140 X 760 X 635	550 Litres
RMCT400	1025 X 660 X 645	400 Litres
RMCT480	900 X 750 X 750	480 Litres
RMCT650	1195 X 750 X 760	650 Litres
RMCT950	1220 X 1070 X 830	950 Litres
RMCT1200	1530 X 1070 X 770	1200 Litres
RMCT1450	1830 X 1080 X 780	1450 Litres
REPC400	1025 X 660 X 645	400 Litres
REPC950	1220 X 1070 X 830	950 Litres
REPC1450	1830 X 1080 X 780	1450 Litres

Product list not exhaustive



## RETURNABLES FOR REVERSE LOGISTICS

**CUSTOMISED FABRICATED CRATES :** Symmetrical partition for instant visual inspection



Ideal for organised storage of OEM components.

**AUTOMOBILE CRATES :** Asymmetrical partition for engine / components assembly units





## MAINTENANCE PRODUCTS :

Behind every efficient system, there is an efficient maintenance. Keeping the system running. Ensuring that the bits and bolts are always found when and where they are wanted. Tools and spare parts for repairs and replacement. All very organized and easy to access. Nilkamal's range of Tool Storage Cabinets. Organized spaces for tools, Nilkamal's FPO and Max crates. Easy to organize, easy to access. While Nilkamal's Caster wheels keep things moving, Nilkamal's Flexi Rack Universal Storage System. Organize your space, your way.



Tool Storage Cabinets - Shop Floor Application



Front Partly Open Crates



MAX Crates



# MAINTENANCE PRODUCTS

## FRONT PARTLY OPEN CRATES & STANDS



FPO CRATE1



FPO CRATE1P



FPO CRATE5



FPO CRATE15



FPO CRATE25



FPO CRATE35



FPO CRATE45



FPO CRATE50



Model	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
FPO CRATE1	95 x 102 x 52	61 x 100 x 50
FPO CRATE1P	95 X 102 X 52	61 x 100 x 50
FPO CRATE5	160 x 115 x 80	120 x 100 x 75
FPO CRATE15	200 x 125 x 100	160 x 105 x 190
FPO CRATE25	230 x 150 x 125	180 x 130 x 115
FPO CRATE35	300 x 210 x 160	275 x 204 x 149
FPO CRATE45	350 x 210 x 200	305 x 190 x 190
FPO CRATE50	515 x 310 x 200	425 x 282 x 187



## FRONT PARTLY OPEN CRATES & STANDS



### FS-SS (Single Sided) & FS-DS (Double Sided)

#### Table Top Stands for FPO5 & FPO15

##### FPO5 :

6 Channels - 5 Vertical x 6 Horizontal = 30 Nos. on FS-SS & 60 Nos. on FS-DS

##### FPO15 :

5 Channels - 5 Vertical x 5 Horizontal = 25 Nos. on FS-SS & 50 Nos. on FS-DS

\* Also possible to accommodate 6 pcs. horizontally per channel per side

##### Stand Dimensions :

725 mm. (Width) x 685 mm. (Height) x 450 mm. (Depth)



### FS-SS (Single Sided) & FS-DS (Double Sided) Stands for

#### FPO CRATE25, 35 & 45 (Also available with Castors - Optional)

##### FPO25 :

7 Channels - 7 Vertical x 9 Horizontal = 63 Nos. on FS-SS & 126 Nos. on FS-DS

##### FPO35 :

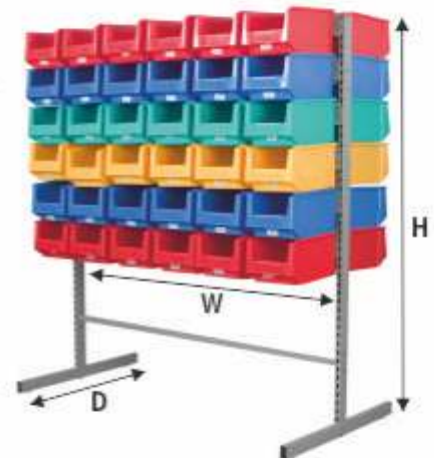
6 Channels - 6 Vertical x 6 Horizontal = 36 Nos. on FS-SS & 72 Nos. on FS-DS

##### FPO45 :

5 Channels - 5 Vertical x 6 Horizontal = 30 Nos. on FS-SS & 60 Nos. on FS-DS

##### Stand Dimensions :

1410 mm. (Width) x 1550 mm. (Height) x 740 mm. (Depth)



MOUNTING OF FPO CRATES ON LOUVRE PANEL					
Model No. : MLP4545 (457 X 457 MM)					
FPO 5 3"x4"=12	FPO 15 3"x4"=12	FPO 25 3"x3"=9	FPO 35 2"x3"=6	FPO 45 2"x2"=4	
Model No. : MLP4561 (457 X 610 MM)					
FPO 5 3"x5"=15	FPO 15 3"x5"=15	FPO 25 3"x4"=12	FPO 35 2"x4"=8	FPO 45 2"x3"=6	
Model No. : MLP4591 (457 X 915 MM)					
FPO 5 3"x8"=24	FPO 15 3"x8"=24	FPO 25 3"x6"=18	FPO 35 2"x5"=10	FPO 45 2"x4"=8	
Model No. : MLP45183 (457 X 1830 MM)					
FPO 5 3"x16"=48	FPO 15 3"x16"=48	FPO 25 3"x12"=36	FPO 35 2"x9"=18	FPO 45 2"x8"=16	

# MAINTENANCE PRODUCTS

## MAX CRATES & LOUVRE PANELS



**MAXCRATE10**

O.D. : 173 (L) x 96 (B) x 86 (H) mm.



**MAXCRATE20**

O.D. : 230 (L) x 130 (B) x 125 (H) mm.  
(Takes up to 3 dividers widthwise)



**MAXCRATE30**

O.D. : 300 (L) x 180 (B) x 145 (H) mm.  
(Takes 1 divider lengthwise & up to 3 dividers widthwise)



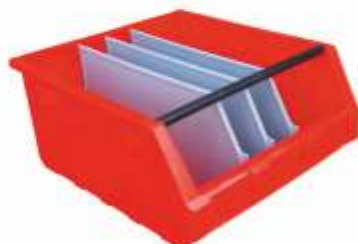
**MAX CRATE40**

O.D. : 450 (L) x 180 (B) x 145 (H) mm.  
(Takes 1 divider lengthwise & 7 dividers widthwise)



**MAX CRATE47**

O.D. : 295 (L) x 365 (B) x 145 (H) mm.  
(Takes 3 dividers lengthwise)



**MAXCRATE70**

O.D. : 450 (L) x 410 (B) x 215 (H) mm.  
(Takes 3 dividers lengthwise)



**MLP4545**

O.D. : 457 (W) x 457 (H) mm.  
Table Top Unit with Rod Stand  
& Wall Mounted also available



**MLP4561**

O.D. : 457 (W) x 610 (H) mm.  
Wall Mounted & Table  
Top Unit also available



**MLP4591L2DS2**

O.D. : 457 (W) X 910 (H) mm  
(Double Sided with 2 legs)  
(Also available with Table Top)



**MLP45183**

O.D. : 457 (W) X 1830 (H) mm  
(Also available with legs on  
Single & Dual Sided Stand)

**Model : DWMAX20**  
Width wise Dividers  
suitable for MAX Crates 20



**Model : DWFBMAX30**  
Divider Lengthwise  
For Max Crate 30



**Model : DWFBMAX40/47**  
Divider Lengthwise  
For Max Crate 40 & 47



**Model : DWFBMAX70**  
Divider Lengthwise  
For Max Crate 70



**Model : DWMAX30/40**  
Width wise Dividers  
for MAX Crates 30/40



**Model : DUSTCOVER30**  
Dust Cover For Max Crate 30



**Model : DUSTCOVER40**  
Dust Cover For Max Crate 40



**Model : FLAPMAX10**

**Model : FLAPMAX10/30/40**

Typical MAX Crate with  
Dust Cover and Flap



Close up of Dust  
Cover And Flap



### MOUNTING OF MAX CRATES ON LOUVRE PANEL

		MAX 10	MAX 20	MAX 30
<b>MLP4545</b>	<b>(457 x 457 MM)</b>	16 nos.	9 nos.	6 nos.
<b>MLP4561</b>	<b>(457 x 610 MM)</b>	20 nos.	12 nos.	8 nos.
<b>MLP4591</b>	<b>(457 x 915 MM)</b>	32 nos.	18 nos.	12 nos.
<b>MLP45183</b>	<b>(457 x 1830 MM)</b>	60 nos.	36 nos.	24 nos.

		MAX 40	MAX 47	MAX 70
<b>MLP4545</b>	<b>(457 x 457 MM)</b>	6 nos.	3 nos.	2 nos.
<b>MLP4561</b>	<b>(457 x 610 MM)</b>	8 nos.	4 nos.	3 nos.
<b>MLP4591</b>	<b>(457 x 915 MM)</b>	12 nos.	6 nos.	4 nos.
<b>MLP45183</b>	<b>(457 x 1830 MM)</b>	24 nos.	9 nos.	8 nos.



# MAINTENANCE PRODUCTS

## TOOL STORAGE CABINETS :

**Nilkamal Tool Storage Cabinets** are the ideal solutions for organized storage of your shop floor tools. You can store your tools without mix-ups, thus saving in shop floor usage. The systems are lockable, protecting your valuable tools against pilferage. **Nilkamal Tool Storage Cabinets** give you easy access to all tools stored; small items at the rear can also be easily accessed. The drawers are completely divisible to suit individual applications. Space saving, as you can store small components in high density. Movable models are also available.



Model : **NKT333-X**

Overall Dimensions : 712 x 440 x 694 mm.

Dimensions With Castors : 712 x 440 x 814 mm.

Package : 746 x 462 x 348 mm.

2 drawers : 570 x 395 x 60 mm.



Model : **NKTBS-L4006-X**

Overall Dimensions : 426 x 458 x 844 mm.

Package : 495 x 525 x 910 mm.

5 drawers : 313 x 406 x 74.5 mm.

1 drawer : 313 x 406 x 311.5 mm.



Model : **NKTBT8308D-X**

Overall Dimensions : 1412 x 745 x 662 mm.

Package : 1474 x 838 x 837 mm.

Top tray area : 1391 x 733 x 111.5 mm.

2 drawers : 371 x 675 x 79 mm.

2 drawers : 371 x 675 x 121 mm.

2 drawers : 777 x 675 x 79 mm.

2 drawers : 777 x 675 x 121 mm.



Model : **NKTBR8312-DX**

Overall Dimensions : 1412 x 745 x 947 mm.

Dimensions With Castors : 1412 x 745 x 1176 mm.

Package : 1474 x 838 x 1280 mm.

1 drawer : 1229.5 x 675 x 123 mm.

3 drawers : 371 x 675 x 79 mm.

1 drawer : 371 x 675 x 107 mm.

1 drawer : 371 x 675 x 275 mm.

3 drawers : 777 x 675 x 79 mm.

2 drawers : 777 x 675 x 107 mm.

1 drawer : 777 x 675 x 163 mm.



Model : **NKTBR5008-X**

Overall Dimensions : 910 x 550 x 947 mm.

Dimensions With Castors : 910 x 550 x 1095 mm.

Package : 990 x 640 x 1115 mm.

4 drawers : 790 x 479 x 53 mm.

3 drawers : 790 x 479 x 109 mm.

1 drawer : 790 x 479 x 221 mm.



Model : **NKTBR-L4007**

Overall Dimensions : 680 x 458 x 856 mm.

Dimensions With Castors : 680 x 458 x 995 mm.

Package : 749 x 520 x 935 mm.

5 drawers : 570 x 406 x 74.5 mm.

2 drawers : 570 x 406 x 153.5 mm.



Model : **NKTBS-L4007-X**

Overall Dimensions : 426 x 458 x 844 mm.

Package : 495 x 525 x 910 mm.

5 drawers : 313 x 406 x 74.5 mm.

2 drawers : 313 x 406 x 153.5 mm.

TBR : Roller Cabinet with Castors • TBS : Tool Cabinet with Slide • TBT : Tool Cabinet Top Chest • TC : Tool Cart • L : New Drawer Structure • X : With Ball Bearing Slide (All Dimensions are approximate)

## MAINTENANCE PRODUCTS

### WHEELS & CASTERS :

Reliable and high quality caster wheels are essential for smooth movement of goods on shop floors, warehouses as also many other applications. Nilkamal offers a wide range of caster wheels that work under taxing conditions.

**Salient features are:**

- Works in a wide span of temperature from -20° C to 85°C.
- Sizes from 3" to 8" dia
- Available in PU with cast iron core, Thermoplastic rubber (TPR), PVC as well as Nylon (black)
- Types : Fixed, Swivel and with ball bearing. Brakes optional.



UC Fixed Caster 5", 6", 8"



Swivel Caster with Break 5", 6", 8"



Nylon Caster 6", 8", 10" & 12"

Bracket surface finish – Corrosion Resistant ZN – Galvanized Zinc Finish, Top plate & fork legs made of 1/4" cold forged steel. Case hardened double ball raceways provide extra strength & durability.

### MODULAR CRATES & RACKS :

Modular storage crates and Electro Conveyance Crates are widely used in Electronics and Electrical industry for storage and movement .

**Model : HMTR**  
(Horizontal format with modular storage crate 275 / 300)  
O.D 910 (L) X 320 (B) X 615 (H) MM.  
(Also available without castors)

**Model : VMTR**  
(Vertical format with modular storage crate 275 / 300)  
O.D 500 (L) X 320 (B) X 1110 (H) MM.  
(Also available without castors)

#### MODULAR STORAGE CRATES

**MODEL : 300 With Removable Partition**  
With 3 Partitions & 4 Pockets  
(Also available **Model : 200** with 1 partition & 2 pockets)

#### ELECTRO CONVEYANCE CRATES

**MODEL : ECC12**  
Box Size : 230 (L) X 164 (B) X 154 (H) mm.  
Drawer Size : 149 (L) X 72 (B) X 31(H) mm.

#### MODULAR STORAGE CRATES & MODULAR STORAGE RACKS :

**MODEL : CC8080**  
O.D. : 80 (L) X 80 (B) X 31 (H) mm.

**MODEL : CC16080**  
O.D. : 160 (L) X 80 (B) X 31 (H) mm.

(Each rack can accommodate 24 trays respectively.)



## RETURNABLES FOR REVERSE LOGISTICS

Nilkamal pioneered the use of Plastic crates in India and has maintained leadership position in the Indian market. Innovation, a proactive approach to customer needs has led us to offer the widest range of molded plastic crates in the Indian market, catering to practically every user segment and also creating some in the process. No wonder that we count the best and most demanding names in the Indian industry amongst our established customers. This section gives extensive information on our range of Injection Molded Crates (also known as Series Crates) for various industries. You will find detailed lists of models and respective versions along with their outer and inner dimensions that would help you make your buying choices easier.



Vacuum Formed Crates For Gears



PP Corrugated Boxes



Pallet Sleeve Systems - Also Available On Rent

## RETURNABLES FOR REVERSE LOGISTICS

### SPACE SAVING CRATES (STACKABLE & NESTABLE (SN) CRATES)



Model : CH5838210



Model : JR5838210



Model : CH6238300



Model : JR6238300

Crates shown when stacked.  
(Stacked height 1430 mm.)



Stacking

Crates shown when nested.  
(Nested height 700 mm. Only)



Nesting



Model : CH63325

Model	Available Versions	Outer Dimensions (L x B x H in mm.)	Inner Dimensions (L x B x H in mm.)
5838210	CH / JBC / JR	580 X 380 X 210	553 X 353 X 205
6238300	CH / JBC / JR	626 X 381 X 300	590 X 345 X 293
63325	CH	650 X 370 X 325	485 X 300 X 295



# RETURNABLES FOR REVERSE LOGISTICS

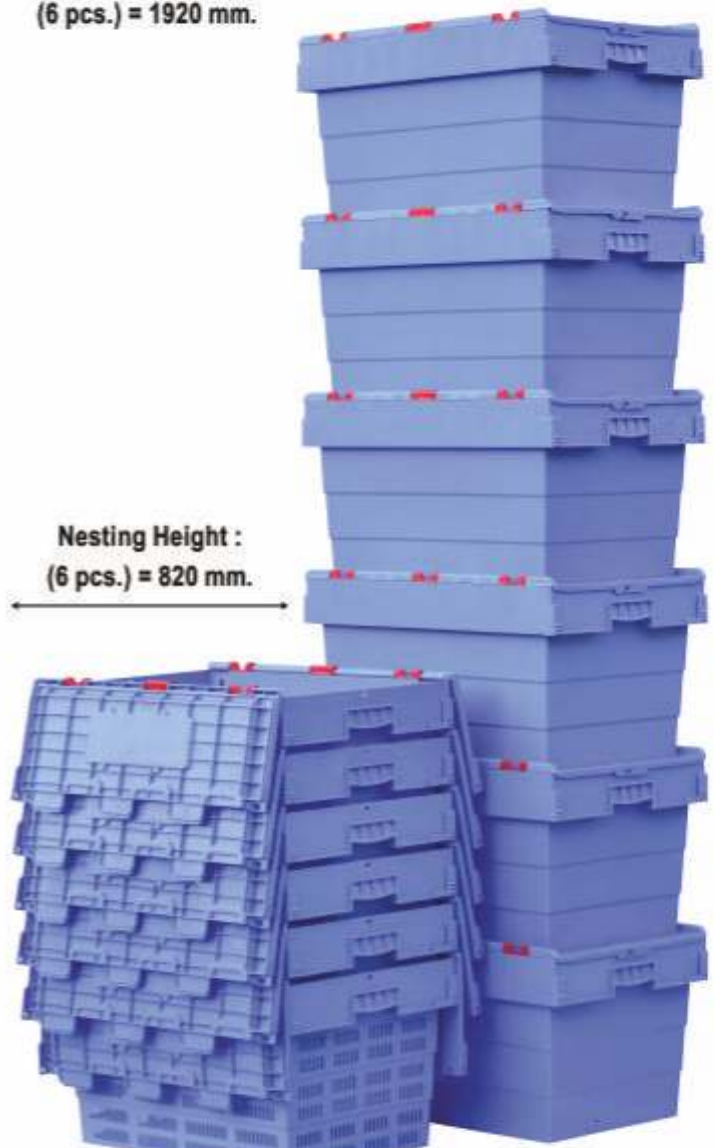
## SPACE SAVING CRATES

### ATTACHED LID CRATES



Stacking Height :  
(6 pcs.) = 1920 mm.

Nesting Height :  
(6 pcs.) = 820 mm.



Nesting

Stacking

### BAIL ARM CRATES



Model	Available Versions	Outer Dimensions (L x B X H in mm.)	Inner Dimensions (L x B X H in mm.)
64320	ALC / BA / CC / CCF / JBC / JR	600 X 400 X 320	538 X 370 X 317



# RETURNABLES FOR REVERSE LOGISTICS

## PP CORRUGATED FOLDABLE BOXES / CRATES :

Flexible, lightweight and safe to handle. Can be folded multiple times, reusable. For movement of light weight but voluminous products.





# RETURNABLES

## PALLET SLEEVE SYSTEMS - (Available On Rent)

Ideal system for maximizing space in return cycles. 100% recyclable. Saves space for return transportation.

(Available sizes : 1200 x 800 mm. / 1200 x 1000 mm.)



### QUICK ASSEMBLING :



### EASY DISMANTLING :



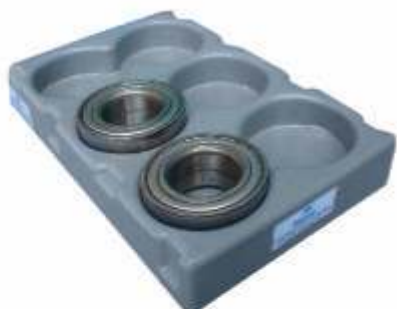
# RETURNABLES

## VACUUM FORMED CRATES :

Custom shaped crates and trays for products that need protective packaging for transportation of valuable and innovative components for automotive industry across India.



Available in Pallet size moulds :



Available in Standard series crate fitments :





## INJECTION MOLDED PLASTIC PALLETS

Nilkamal pallets are developed in close association with user industry and technological advances in material handling and storage systems. They meet environmental considerations are proven more economical in the long run, also improving storage and handling systems in the process. Nilkamal plastic pallets are easy to clean and handle and withstand commonly used chemicals, solvents and cleaning agents. This section gives detailed information about our range of **Injection Molded and Roto Molded Pallets**. You will find detailed lists of models, highlighting specific useful information about entry points and recommended mode of usage as well as detailed tabulations about foot prints and other relevant features.



3 Runner Injection Moulded Pallets - Rack Application



9 Leg Injection Moulded Pallets - Floor Application



Roto Moulded Pallets - Rack Application



AP0606 - Floor Application



Spill Pallets

# PALLET SELECTION CHART

Sr.	Model Suffix	Foot-Print - mm	Roto Molded Pallet			Injection molded Pallets									
			9-leg	3-Runner	Reversible	AP	SP	DP	OW	GMA	GMP	FP	DSP	DPR	EP
1	0606	660 x 660				●									
2	0707	750 x 750	●	●											
3	0711	720 x 1170		●											
4	8060	800x 600													●
5	0808	800 x 800		●											
6	0810	800 x 1000		●											
7	9065	900 x 650					●								
8	9075	900 x 750	●												
9	0909	900 x 900		●											
10	0912	900 x 1200		●											
11	1006	1000 x 600					●								
12	1008	1000 x 800		●			●								
13	1010	1000 x 1000	●	●		●	●		●				●		
14	1012	1000 x 1200		●		●									
15	1109	1100 x 900													●
16	1111	1100 x 1100		●		●		●	●	●	●	●			●
17	1114	1100 x 1400		●											
18	1197	1120 x 970									●				
19	1108	1130 x 830		●											
20	1198	1140 x 980													
21	1109	1150x 990		●											
22	1208	1200 x 800	●	●		●	●	●			●				●
23	1210	1200 x 1000	●	●		●	●	●	●	●	●	●		●	●
24	1211	1200 x 1100							●						
25	120105	1200x 1050		●											
26	1212	1200 x 1200	●	●	●	●		●				●		●	●
27	12510	1250x 1000	●												
28	125125	1250 x 1250	●												
29	127095	1270 x 950								●					
30	127109	1270x 1090								●					
31	1311	1300 x 1100						●				●	●		
32	131088	1310 x 880								●					
33	132110	1320 x 1100								●					
34	1385	1320 x 850		●											
35	1310	1330 x 1070		●											
36	134120	1340 x 1200		●											
37	1411	1400 x 1100		●				●				●			
38	1412	1400x 1200						●							
39	1512	1500x 1200		●				●							
40	1515	1500 x 1500			●		●	●					●		
41	1616	1600 x 1600					●	●							
42	1812	1800 x 1200	●					●							
43	1814	1900 x 950						●							
44	1818	1800 x 1430						●							
45	1995	1800 x 1800						●							

Pl. decide first about pallet foot-print . Check you need Roto molded pallet or Injection Molded pallet. This chart does not indicate pallet performance. For Roto Molded pallet refer our separate detailed brochure. Before finalizing any design, consider available MHE, Racking system, type of goods. Take Nilkamal advise for Optimizing pallet design & available colour scheme. All details subject to change without notice. We can supply selected foot-print mild steel powder coated pallets, hot dip Galvanized pallets & Wire mesh cage.

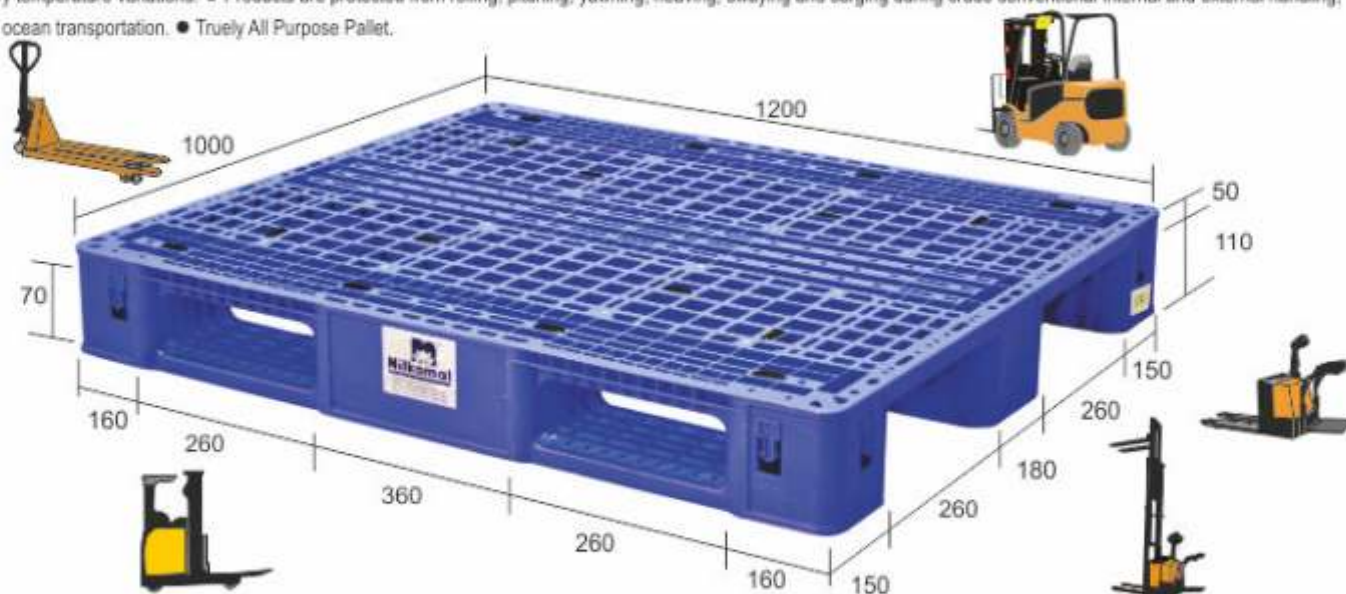
Please refer separate brochure for our Injection Molded Pallets, Roto Molded Pallets & Wire Mesh Pallets



# INJECTION MOLDED PALLETS (MODEL : AP - 1210)



- Fail-safe, anti-skid perforated design. ● Suitable with all kinds of Material Handling Equipments & all conventional racks like Pallet Storage Systems, Drive-In Rack & Also ASRS Double Deep Racks, Shuttle car etc. ● Best for use as returnable pallets with unmatched durability for all purpose heavy industrial applications. ● Can withstand heavy point loads and heavy temperature variations. ● Products are protected from rolling, pitching, yawning, heaving, swaying and surging during crude conventional internal and external handling, inland or ocean transportation. ● Truly All Purpose Pallet.




Compatible MHE :	
Equipment	Refer to Page No.
Electric Stacker	XXX
Electric Reach Stacker	XXX
Electric Reach Truck	XXX
Forklift	XXX

Small side (1000 mm) open entry suitable for all MHE. Long side with Restricted Entry suitable for Forklift, Reach truck. Recommended wider fork spread for better stability during lifting, moving, shifting load as dynamic use.



Eliminate the packing material waste, scrap filling around. Use Nilkamal load retaining Lashing Belt & Lashing PP ordinary ropes with Buckles. Save on using Reusable Load Retaining Straps.



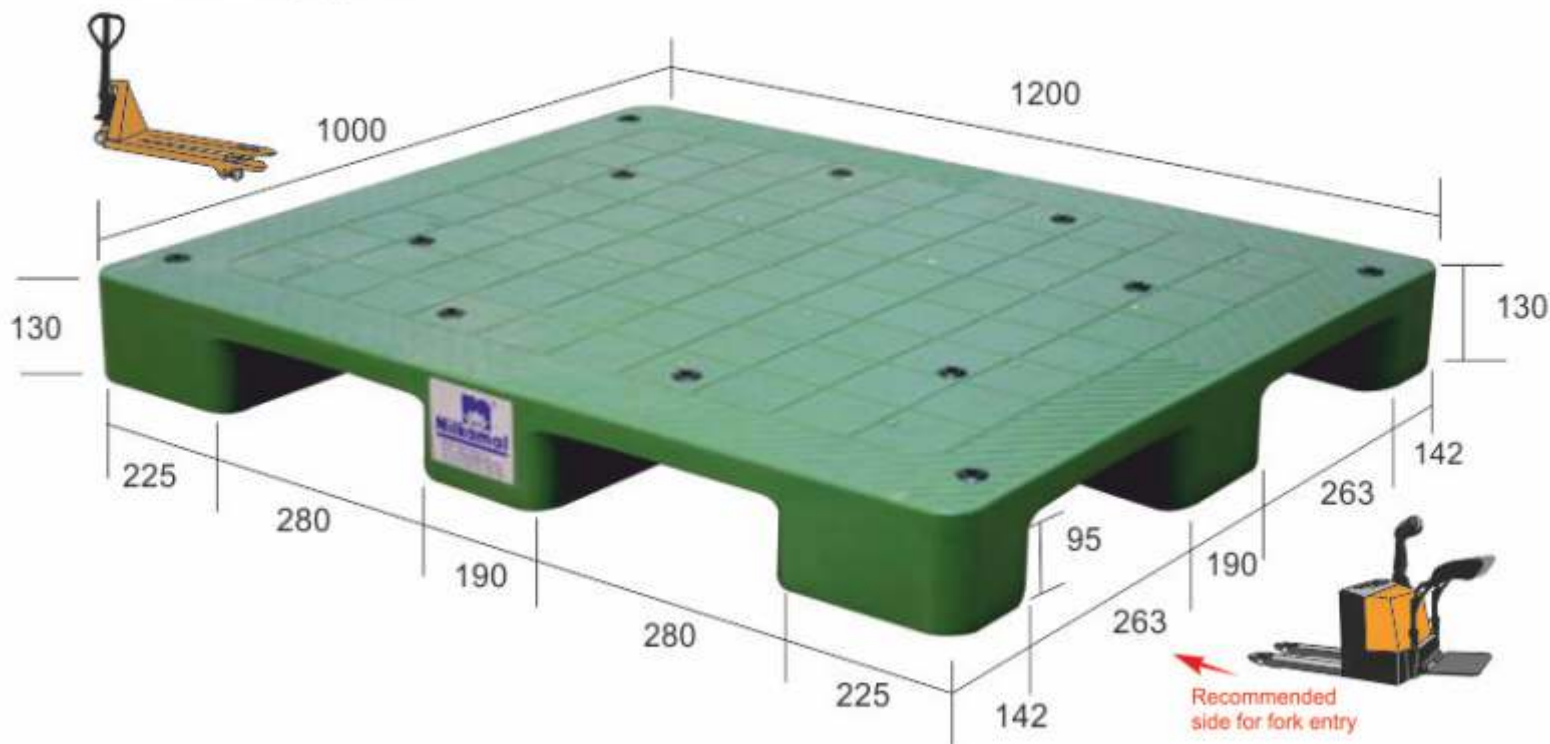
Model	Dimensions	Static Load (Kg.)	Dynamic Load (Kg.)	Racking Load (Kg.) Standard PSS	Drive-in Rack Load (Kg.)						
AP-1210-HW	1200 X 1000 X160	6000	1200	1000	1000	110	180	700	70	360	880
AP-1210-HW-SE	1200 X 1000 X160	6000	1200	1000	1000	110	180	700	70	360	880
AP-1210-HWEP	1200 X 1000 X160	6000	1200	1000	1000	110	180	700	70	360	880
AP-1210-HWEP-SE	1200 X 1000 X160	6000	1200	1000	1000	110	180	700	70	360	880
AP-1210-MW	1200 X 1000 X160	4000	1000	600~750	500~600	110	180	700	70	360	880
AP-1210-MW-SE	1200 X 1000 X160	4000	1000	600~750	500~600	110	180	700	70	360	880
AP-1210-LW	1200 X 1000 X160	3000	800	250	N.A.	110	180	700	70	360	880
AP-1210-LW-SE	1200 X 1000 X160	3000	800	250	N.A.	110	180	700	70	360	880

LW : Low Weight ● MW : Medium Weight ● HW : Heavy Weight ● SE : Safety Edge ● EP : Engineering Plastic. Safety Edge is for protection of crates, cartons, boxes etc. from slipping off during handling. All pallets have standard features of Strapping hook. The advantage of incorporating strapping hook is load gets uniformly distributed over pallet, so bending is reduced & load bearing capacity goes up. If you do not use strapping hook & belt, load bearing capacity goes down.

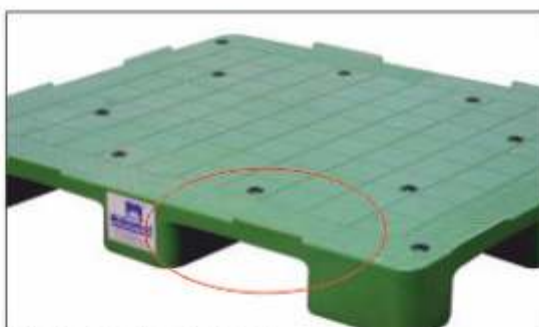


# INJECTION MOLDED PALLETS (MODEL : SP - 1210)

- Cost effective solutions for all your shop-floor handling, storage & flexible logistics systems in almost all sectors.
- Meets general hygiene conditions.
- Suitable to handle with all kinds of Material Handling Equipments.



Upside Down



With Safety Edge (Optional)

Compatible MHE :	
Equipment	Refer to Page No.
Hydraulic Hand Pallet Truck	XXX
Electric Pallet Truck	XXX
Recommend to lift from small side (1000 mm.) with wider spread fork. 9-foot pallet should be uniformly lifted to avoid pallet sagging. Do not throw, shoulder drop on flat deck.	



Model	Dimensions	Top Deck	Static Load (Kg.)	Dynamic Load (Kg.)	Racking Load (Kg.)	W			L		
						h	B	A+B+A	h	F	E+F+E
SP-1210-HW	1200 X 1000 X 130	Flat	3000	1000	N.A.	95	190	716	95	190	750
SP-1210-HW-SE	1200 X 1000 X 130	Flat	3000	1000	N.A.	95	190	716	95	190	750
SP-1210-MW	1200 X 1000 X 130	Flat	2500	750	N.A.	95	190	716	95	190	750
SP-1210-MW-SE	1200 X 1000 X 130	Flat	2500	750	N.A.	95	190	716	95	190	750

HW : Heavy Weight ● MW : Medium Weight ● SE : Safety Edge. Safety Edge is for protection of crates, cartons, boxes etc. from slipping off during handling.



# INJECTION MOLDED PALLETS

*Whatever the type of load you have, Nilkamal has the right pallet for you....*

NILKAMAL'S pallets are developed in close association with user industry and technological advances in material handling & storage systems. They are proven as viable replacements to conventional pallets. They not only meet environmental and economical considerations but also contribute in improving storage system, product distribution efficiency, product protection and enhanced human safety.

## Special Features :

- Consistent in shape & dimensions
- Light-weight yet strong & durable
- Prevent microbiological growth ● Does not absorb water or liquids
- Performance does not degrade by commonly used chemicals, solvents and cleaning agents
- Anti-slip surface prevents slippage of the load in handling and on racks
- Easy to clean and handle.

## Important Information :

- All specifications are subject to change without notice and are approximate
- Pallet load capacity is linked to your product bulk density, package dimensions, layout, MHE & rack design
- The data on pallet load capacity is indicative and based on UDL (Uniformly Distributed Load).
- Racking load stands on the capacity of the pallet rested on length direction
- It is advisable to use and test the sample for all the requirements
- We can supply **RFID embedded pallets based on customer's requirements.**
- All your requirements of M.H.E. (Material Handling / Lifting Equipments) and Storage Rack Systems are now available with Nilkamal - ex-stock.

### TILE PALLET



**AP0606 : ALL PURPOSE MULTI-PURPOSE 2 WAY, 3 RUNNER, PERFORATED DECK HEAVY DUTY PALLETS**

### LARGE SIZE PALLET



**DP 1311 : MULTI-PURPOSE 4 WAY, ANTI SLIP PERFORATED DECK REVERSIBLE PALLETS ESPECIALLY FOR WET FLOORS**



**GMP - SC** : Stackable Rackable conveyor handling



**FP Series** : Full Parameter Stack, Rack, Used with Pallet Truck



**OW Series** : One Way Stackable



**GMA Series**



**DP Series** : Reversible Pallet



**DPR Series** : Flat Deck Reversible



**GMP Series** : HACCP, Hygiene Stringent regulation pallet for wipe & clean dust

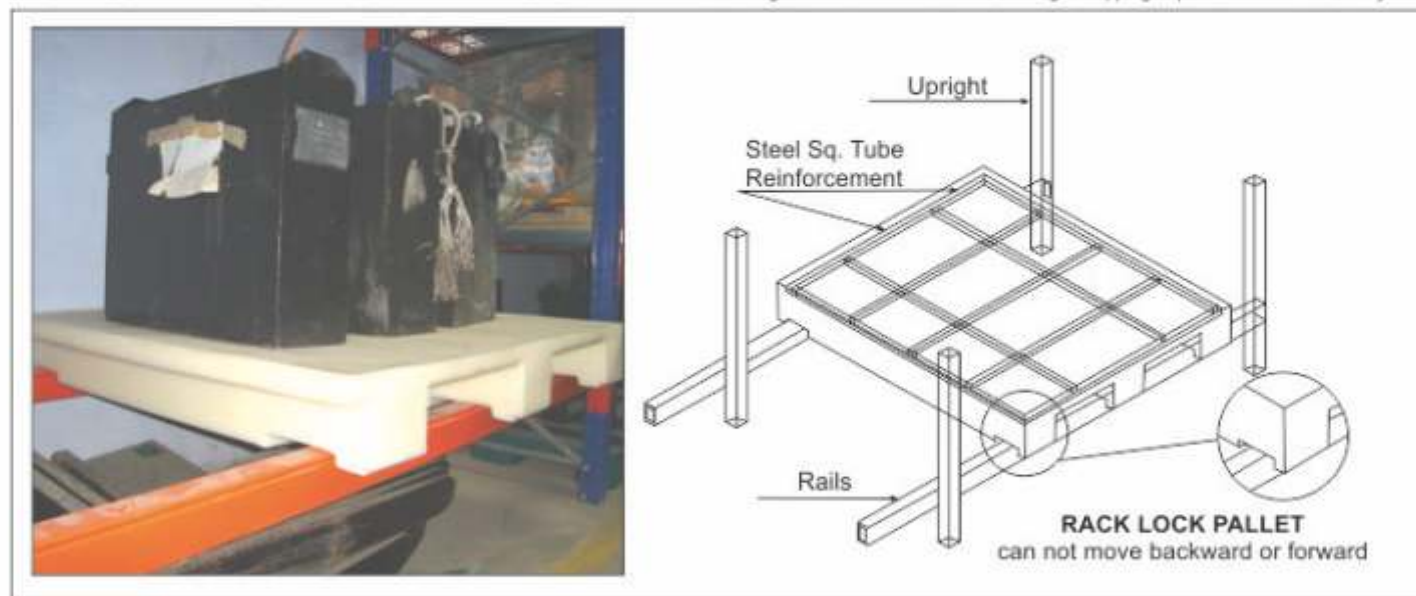


**EP Series** : Export / Nestable

# ROTO MOLDED PALLETS

- Hygienic and useful for GMP clean rooms ● Environment friendly ● Durable and cost effective ● Easy to maintain – just wipe and clean. Machine wash and steam cleaning also possible ● Resistant to commonly used chemicals ● Exclusive Rack lock for locking pallet on standard rack, ● Wings on Rail for drive-in racking ● Hi-end textures available.

**RACK LOCK PALLETS WITH STEEL RE-INFORCEMENT** : No bending even with Point Load. No shifting or slipping of pallets. Enhanced Safety



## 3 Runner Pallets : For General Usage On Rack & Floor :

With Rack Lock, Safety Edge & Wing Runners



**RP1212C3RUS1Z1**  
1200(L) x 1200(W) x 160(H) MM.

With Rack Lock & Wing Runners



**RP1210F3RUS2**  
1200 (L) x 1000 (W) x 150 (H) MM.

With Rack Lock & Flush Runners



**RP0707F3RU3**  
750 (L) x 750 (W) x 150 (H) MM.

With Flush Runners



**RP0909F3RUSJ4**  
900 (L) x 900 (W) x 150 (H) MM.

With Safety Edge & With Flush Runners



**RP1515DA3RUS6**  
1500(L) x 1500(W) x 160(H)MM.

With Rack Lock, Safety Edge & Flush Runners



**RP1010CO3RUS9**  
1000 (L) x 1000 (W) x 160 (H) MM.

With Flush Runners



**RPROLL1210F3RUJ4**  
1200 (L) x 1000 (W) x 260 (H) MM.

With Rack Lock, With Safety Edge & With 5 Flush Runners



**RP1208P5RUS6**  
1200 (L) x 800 (W) x 160 (H) mm.

## 9 Legs Pallets - For Floor Usage

With Kiss-off Bottom, Stacked Leg, Wing Leg, Kiss-off Bottom of Legs



**RP1210F9L51**  
1200 (L) x 1000 (W) x 150 (H) MM.

Flat Bottom, Tapered Leg, Flush Leg, Flat Bottom of Legs



**RP1210F9LUS53**  
1200 (L) x 1000 (W) x 160 (H) MM.

With Flat Bottom, Round Leg, Flush Leg, Flat Bottom of Legs



**RP1212F9LUS52**  
1200 (L) x 1200 (W) x 160 (H) MM.



**Customized Innovations :** Pallets for ASRS, RFID, automated hi-speed multi-tier conveyor & sensor sorting needs special deck design & texture surface. Thanks to in-house software based designing capabilities and further CNC machining facilities, we provide proprietary solutions and which has improved anti-slip property, improved feasibility with robotized handling and improved security and useful life of pallet & other value additions.



Model No : **RP1010P2R3LUSJ4.**

Dimensions : 1000X1000X150MM • Texture type : PERFORATED.

Useful for : DAIRIES AND COLD STORAGE FOR AIR CIRCULATION.



Model No : **RP1108C3RUSJ6.**

Dimensions : 1130 X 830 X 210 MM • Texture type : BIG CHEQUERED.

Useful for : HEAVY LOAD IN AUTOMOBILE INDUSTRY & OTHER GENERAL PURPOSE.



Model No : **RP1208C3RU3** • Dimensions : 1200 X 800 X 130 MM.

Texture type : CHEQUERED TOP WITH HANDLE FOR LIFTING.

Useful for : STORAGE OF CARTON BOXES FOR LIGHT APPLICATION.



Model No : **RP1208D3RUS3Z1** • Dimensions : 1200X800X160MM.

Texture type : DIAMOND TOP WITH STRAPPING SLOT.

Useful for : CARTONS AND SMALL CONTAINERS.



Model No : **RP1208180B3RUS6.**

Dimensions : 1215X810X180MM.

Texture type : BOX TYPE DESIGN. | Useful for : BOXES



Model No : **RP1385C3RUS3Z1**

Dimensions : 1320 X 850 X 165 MM • Texture type : CHEQUERED DESIGN.

Useful for : CARTONS, BOXES.

## SPILL PALLETS & DRUM PALLETS

**SPILL CONTAINMENT PALLETS :** Nilkamal's Spill Containment Pallets are an absolute must for food and pharma companies. Spillage can occur anywhere / any time and can contaminate sensitive food and pharma products or clean rooms, causing huge rejections and recalls. Nilkamal's Spill Containment Pallets are made to international standards and are an absolute necessity for your pharma or food manufacturing set-up.

### Injection Molded :



Model : **IMPC120L3RSPIIL**  
Dimensions : 1330 (L) x 670 (B) x 150 (H) mm.



Model : **IMPC200L3RSPIIL**  
Dimensions : 1330 (L) x 670 (B) x 400 (H) mm.



### Roto Molded :



Model : **RMPC100L3RSPIIL**  
Dimensions : 1300 (L) x 1300 (B) x 200 (H) mm.



Model : **RMPC525L3RSPIIL** • Dimensions : 1300 (L) x 1300 (B) x 575 (H) mm.  
Pallet with lid • Stacking : Ground +2 • Sump capacity : 525 liters



## DRUM PALLETS :



Model : **AP1111SC**  
Dimensions : 1100 (L) x 1100 (W) x 140 (H) mm. approx.  
Load Bearing : Uniformly Distributed Load :  
Static : 3600 kg. • Dynamic : 1200 kg. • Racking : 600 kg.  
Should be handled with Forklift or Pallet truck only.



Model : **DP1212**  
Dimensions : 1200 (L) x 1200 (W) x 150 (H) mm. approx.  
Load Bearing : Uniformly Distributed Load :  
Static : 6000 kg. • Dynamic : 1500 kg. • Racking : 1000 - 1500 kg.  
Should be handled with Forklift only.





## KIT CRATES :

**NILKAMAL** introduces **KIT CRATE** with Zero Defects –Best in class Quality. Safe, Clean Ergonomic Work Environment. No “non-value” duplication or added work. Communication, Standardization, Visual work place with provision for continuous improvement. Larger the load handled, the lower the cost per unit handled.

### SIDE WALLS FOLDING KIT CRATES :



Model : CH1210590

Outside Dimensions : 1200 (L) x 1000 (B) x 590 (H)



Model : CH1210975 (Folding Kit Crate with Lid)

Outside Dimensions : 1200 (L) x 1000 (B) x 975 (H)



Step Wise Assembling Process



Model : CH1210800 | Outside Dimensions : 1200 (L) x 1000 (B) x 800 (H) All four side walls fold on base pallet, 2-way fork entry, 2-Bottom Runner Design.

### BULK KIT CRATES (With closed & perforated walls) :



Model : CH1210740 (Bulk Kit Crate) | Outside Dimensions : 1200 (L) x 1000 (B) x 740 (H)

Available with solid closed walls and perforated walls and 2 way entry, 3 runner design, suitable for racking & stacking.

# ROLLING EQUIPMENTS

Nilkamal pioneered the use of Plastic crates in India and has maintained leadership position in the Indian market. Innovation, a proactive approach to customer needs has led us to offer the widest range of molded plastic crates in the Indian market, catering to practically every user segment and also creating some in the process. No wonder that we count the best and most demanding names in the Indian Industry amongst our established customers. This section gives extensive information on our range of **Injection Molded Crates** (also known as **Series Crates**) for various industries. You will find detailed lists of models and respective versions along with their outer and inner dimensions that would help you make your buying choices easier.

## PLATFORM HAND TRUCKS

PLATFORM HAND TRUCK



Model : PH100  
Capacity : 100 kgs.

ZINC CHROME PLATFORM HAND TRUCK



Model : PH350ZNCR  
Capacity : 350 kgs.



Model : PH150SS  
Capacity : 150 kgs.



MINERAL WATER SACK TROLLEY



Model : SCT250AL-7 • Capacity : 250 kgs.

WHEEL BARROW



Model : WB220 • Capacity : 220 kgs.

MULTI PURPOSE SERVICE TROLLEY



Model : SRT300 • Capacity : 300 kgs.

## HOT DIP GALVANIZED METALLIC ROLL CAGE



Model : MHDRC1170170 • Capacity : 500 kgs.



Model : MHDRC10811550 • Capacity : 500 kgs.





# METALLIC CAGES & BULK CONTAINERS

**METALLIC CAGES :** Nilkamal Full View Foldable Galvanized Metal Wire Cage is the clear choice for better bulk material handling, storage, JIT closed loop returnable systems. ● Rustproof ● Durable ● No Fire hazard ● Can withstand all kinds of environments ● Virtually indestructible ● Low weight to load ratio as containers are lighter ● No performances sacrifice in cold, hot, sultry or highly corrosive atmosphere and salt spray conditions for ocean transportation



**Metallic Wire Mesh Crates**



**Ap1210 with Pallet Cages**



**Metallic Bulk Cages**

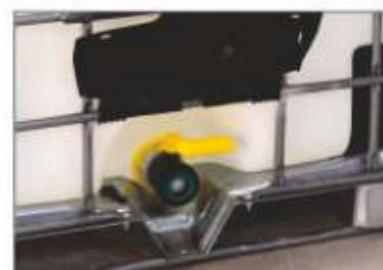


## BULK CONTAINERS :

- Reusable industrial container designed for the transport and storage of bulk liquid and granulate substances (e.g. chemicals, food ingredients, solvents, pharmaceuticals, etc).
- Stackable containers with a metal frame and a metal pallet base designed to be moved using a forklift or a pallet truck.
- Built-in tap at the base through which the contents can be poured out into smaller containers or to which a hose can be attached.

### Advantages :

- Transport more material in the same area than round drums and far more than might be shipped in the same space if packaged in consumer packs.
- The manufacturer/processor of a product can bulk package a product at one location and ship to another location at a reasonably low cost where it is subsequently packaged in final appropriate consumer packs for retail distribution.



Drainage valve for attaching pipe or tap



Drainage valve with pipe or tap



Nilkamal is the only company in India, which offers complete solutions for material handling under oneroof. Our main features & USP are :

● Latest Technology ahead of time ● Ex-stock Availability ● All products conform to European norms ( CE ). You will find detailed lists of models and respective versions along with their capacities and lift heights and their usage areas that would help you make your buying choices easier.

**Products covered are:**

1. MHE Selection Chart.....page 42
2. Manual Range.....page 43
3. Electric Range.....page 44
4. Loading/Work Platform Range..page 45
5. Forklift Range.....page 46
6. VNA Range.....page 47
7. Mitsubishi Range .....page 48-49



**Nilkamal**

**MATERIAL HANDLING**





  
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ING EQUIPMENTS

# Selection Chart

Model	Multi Purpose equipment for Vertical and Horizontal movement of goods	Dock Work	Horizontal Transport	Narrow Aisle Rack Storage	Very Narrow Aisle Rack Storage	Order Picking	Shelving	Aerial Work	Multi Level goods movement
<b>Manual Range</b>									
NK25		✓	✓						
NKLP10		✓	✓						
NKSS25		✓	✓						
NKPRV10			✓						
NKWS20			✓						
NKSHP10			✓						
NKSLT500 / NKSLT1500							✓		
NKSLT350 / NKSLT680							✓		
NKDT03			✓						
NKMS1016 / NKMS1025 / NKMS1516				✓					
NKMSA1016 / NKMSA1516				✓					
NKYTD35			✓						
NKSES1030 / NKSES1530				✓					
<b>Electric Range</b>									
NKEPT22 (AC)		✓	✓			✓			
NKES				✓					
NKRT				✓					
NKERS1545				✓					
NKCBF1032			✓	✓					
NKVOP0345						✓	✓		
NKTT4-0 - TA / NKTT60-TA			✓						
NKTT30			✓						
NKTTZ40			✓						
NKTTZ60									
Articulated Forklift					✓				
VNA - Man Up					✓	✓	✓		
<b>Electric Cart Range</b>									
NKGC2 / 4 / 6 / 8			✓						
<b>Work Platform Range</b>									
NKMWP120								✓	
NKAMWP8115								✓	
NKJCPT1212DC								✓	
NKMMSL39 (MINI)								✓	
<b>Loading Equipment Range</b>									
NKDL10		✓							
NKLT01 / 02 / 03 / 05 / 10									✓
NKSS 10 / 15									✓
NKMD10		✓							
<b>Forklift Range</b>									
NK20D / NK30D / NK50D / NK80D / NK100D	✓	✓	✓						
NK20LPG / NK30LPG	✓	✓	✓						
NK15E3W	✓	✓	✓						
NK15E / NK25E / NK30E / NK50E	✓	✓	✓						



# MATERIAL HANDLING EQUIPMENTS

## MANUAL RANGE



**STAINLESS STEEL PALLET TRUCK**  
Model : NKSS25 • Capacity (kg) : 2500

**WEIGHING SCALE PALLET TRUCK**  
Model : NKWS20 • Capacity (kg) : 2000



**LOW PROFILE PALLET TRUCK**  
Model : NKLP10 • Capacity (kg) : 1000

**PAPER ROLL VERSION PALLET TRUCK**  
Model : NKPRV10 • Capacity (kg) : 1000



**HYDRAULIC HAND PALLET TRUCK**  
Model : NK25 • Capacity (kg) : 2500

### SCISSOR LIFT TABLES



**SCISSOR HAND PALLET TRUCK**  
Model : NKSH10 • Capacity (kg) : 1000



Model : NKSLT500 / NKSLT1500  
Capacity (kg) : 500 / 1500  
Lift Height (mm) : 900 / 1000



Model : NKSLT350 / NKSLT680  
Capacity (kg) : 350 / 680  
Lift Height (mm) : 1300 / 1500



**MANUAL STACKER**  
Capacity (kg) : 1000 / 1500 Lift Height (mm) : 1600 / 2500



**SEMI ELECTRIC STACKER**  
Capacity (kg) : 1000 / 1500 Lift Height (mm) : 3000



**MOBILE FLOOR CRANE** Model : NKMFC02 • Capacity (kg) : 2000

# MATERIAL HANDLING EQUIPMENTS

## ELECTRIC RANGE

### ELECTRIC PALLET TRUCK



Model : NKEPT22(AC)

Capacity (kg) : 2200 • Lift Height (mm.) : 205



### ELECTRIC STACKER



Model : NKES

Capacity (kg) : 1200 & 1500 • Lift Height (mm) : 2900 to 6000



#### PALLET COMPATIBILITY FOR THE BOTH ABOVE MODELS



3 runner pallet : 1 way entry



9 leg pallet : 4 way entry



# MATERIAL HANDLING EQUIPMENTS

## ELECTRIC RANGE



### ELECTRIC REACH STACKER



Model : **NKERSZ1545 / 1555**

Capacity (kg) : **1500** • Maximum Lift Height (mm) : **5500**



### ELECTRIC REACH TRUCK

*Also Available On Long Term Rent*



Model : **NKRT** • Capacity (kg) : **1600 & 2000** • Lift Height (mm) : **6500 to 8500**



#### PALLET COMPATIBILITY FOR THE BOTH ABOVE MODELS



3 runner pallet : 1 way entry



9 leg pallet : 4 way entry

# MATERIAL HANDLING EQUIPMENTS

## ELECTRIC RANGE

### ELECTRIC TOW TRACTORS



Model : NKTTZ40/60

Capacity (kg.) : 4000 / 6000



SIT-ON TOW TRACTOR

Model : NKTT30 Capacity (kg.) : 3000



### VERTICAL ORDER PICKER



Model : NKVOP0345

Capacity (kg) : 300 • Platform Height (mm) : 4500





# MATERIAL HANDLING EQUIPMENTS

## WORK PLATFORM RANGE

### SELF PROPELLED AERIAL WORK PLATFORM



Model : **NKJCPT1212DC**  
Capacity (kg) : **320**  
Platform Height (mm) : **10,000**

### SELF PROPELLED MAST



Model : **NKAMWP81115**  
Capacity (kg) : **200**  
Platform Height (mm) : **9500 mm**

### MANUAL AERIAL WORK PLATFORM



Model : **NKMWP120**  
Capacity (kg) : **200** • Platform Height (mm.) : **12000**

### MINI MOBILE SCISSOR LIFTS



Model : **NKMMSL39 (MINI)**  
Capacity (kg) : **240** • Platform Height (mm.) : **3900**

# MATERIAL HANDLING EQUIPMENTS

## LOAD EQUIPMENTS RANGE

### DOCK LEVELER



Model : NKDL10/15/20 • Capacity (kg) : 10000 / 15000 / 20000

### LIFT TABLE



Model : NKLT01/ 02 / 03 / 05 / 10 | Capacity (kg) : Up to 10000



### STATIONERY STACKER



Model : NKSS 10 / 15  
Capacity (kg.) : 1000 / 1500



### MOBILE DOCK



Model : NKMD10 • Capacity (kg) : 10000 • Size (mm.) : 11300 (L) X 2100 (W) X 1650 (H) max.





# MATERIAL HANDLING EQUIPMENTS

## DRUM HANDLING EQUIPMENT RANGE

### DRUM LOADER



Model : NKDT03 • Capacity (kg) : 300



### DRUM PALLETIZER



Model : NKHD80YEL  
Capacity (kg) : 350 • Lift Height (mm.) : 280

### MANUAL DRUM STACKER



Model : NKYTD35  
Capacity (kg) : 350 • Lift Height (mm) : 1945

### PARROT BEAK ATTACHMENT FOR FORKLIFT TRUCK



Model : PARROTBEAK-1DRUM



Close-up of the drum being lifted

# MATERIAL HANDLING EQUIPMENTS

## DIESEL FORKLIFT RANGE



**3 TON**

Model : **NK30D**

Capacity (kg) : **3000**

Lift Height upto (mm.) : **6000**

Mast : **2 Stage / 2 Stage FFL / 3 Stage FFL**



**5 TON**

Model : **NK50D**

Capacity (kg) : **5000**

Lift Height upto (mm.) : **6000**

Mast : **2 Stage / 2 Stage FFL / 3 Stage FFL**



**10 TON**

Model : **NK100D**

Capacity (kg) : **10000**

Lift Height upto (mm.) : **6000**

Mast : **2 Stage / 2 Stage FFL / 3 Stage FFL**



**16 TON**

Model : **NK1600D**

Capacity (kg) : **16000**

Lift Height upto (mm.) : **6000**

Mast : **2 Stage / 2 Stage FFL / 3 Stage FFL**



## LPG FORKLIFT RANGE



Model : NK20LPG / NK30 LPG • Capacity upto (kg) : 3000  
Lift Height upto (mm.) : 6000  
Mast : 2 Stage / 2 Stage FFL / 3 Stage FFL



## ELECTRIC FORKLIFT RANGE

### 1 TON ELECTRIC FORKLIFT



Model : NKCBFL1032FFL  
Capacity (kg) : 1000 • Lift Height (mm.) : 3200

### 3 WHEEL ELECTRIC FORKLIFT



Model : NK15E3W • Capacity (kg) : 1500

### 4 WHEEL ELECTRIC FORKLIFT



Model : NK15E / NK25E / NK30E / NK50E  
Capacity upto (kg) : 5000 • Lift Height upto (mm.) : 6000  
Mast : 2 Stage / 2 Stage FFL / 3 Stage FFL • Drive Option : DC / AC





# SPECIALIZED MATERIAL HANDLING EQUIPMENTS



## Warehousing Range :



**Platform Powered Pallet Truck**  
Model : PBV20N/25NH  
Capacity (kg) : 2000-2500



**Platform Stacker**  
Model : SBV12N / 12NI /  
12NS / 16N / 16NI / 16NS  
Capacity (kg) : 1200-1600



**Stand-on Reach Truck**  
Model : RBS9/10/13/14/15/18/20/25  
/30CA/RBS9/13/14/15/18/20/25/30LCA  
RBS10 / 13WCA & RBS13WLCA  
Capacity (kg) : 900-3000



**Sit-on Reach Truck**  
Model : RB14N / 14NH / 16NC  
/ 16NHC / 16NS / 16NHS / 16N  
/ 16NH / 20NH / 25NH  
Capacity (kg) : 1400-2500



**Multi-way Reach Truck**  
Model : RBM20K / 25K  
Capacity (kg) : 2000-2500



**High Level Order Picker**  
Model : OPBH10N/10NH  
Capacity (kg) : 1000





# SPECIALIZED MATERIAL HANDLING EQUIPMENTS



## IC Forklift Range :



Model : FD80N / 90N / 100N  
/ 120N / 135N / 150AN / 160AN  
Capacity (kg) : 8000-16000



Model : FGC15N / 18N / 20CN / 20N /  
25N / 30N / 35N / 40N / 50N / 55N  
Capacity (kg) : 1500-5500



Model : FD10N / 15N / 18N / 20CN / 20N / 25N / 30N / 35AN FG(E)10N  
15N / 18N / 20CN / 20N / 25N / 30N / 35AN / FD40N / 45N / 50CN / 50N  
55N / FG40N / 45N / 50CN / 50N / 55N • Capacity (kg) : 1000-5500



## Electric Forklift Range :



Model : FB10/14/15/18/20/25  
/ 28/30CA / FB10/14/18/20/25HCA  
Capacity (kg) : 1000-3000



Model : FB13/15/18/20TCA  
Capacity (kg) : 1250-2000

# SPECIALIZED MATERIAL HANDLING EQUIPMENTS



## THE LONG LOADS SPECIALIST FORKLIFT

The CombiLift is designed to handle long-loads safely. By eliminating the need to travel with elevated long loads, the unit provides greater stability. Using patented, leading edge technology, CombiLift forklifts are equipped with a unique 4-way steering system that allows the units to travel sideways with long loads. This system gives the user multi-directional capability, delivering possible space savings of up to 100%. The CombiLift eliminates the unnecessary multiple handling of goods by being able to manoeuvre easily through doorways that are narrower than the load it carries. This results in less product damage and safer handling as well as eliminating the need for oversized doorways or conveyors.

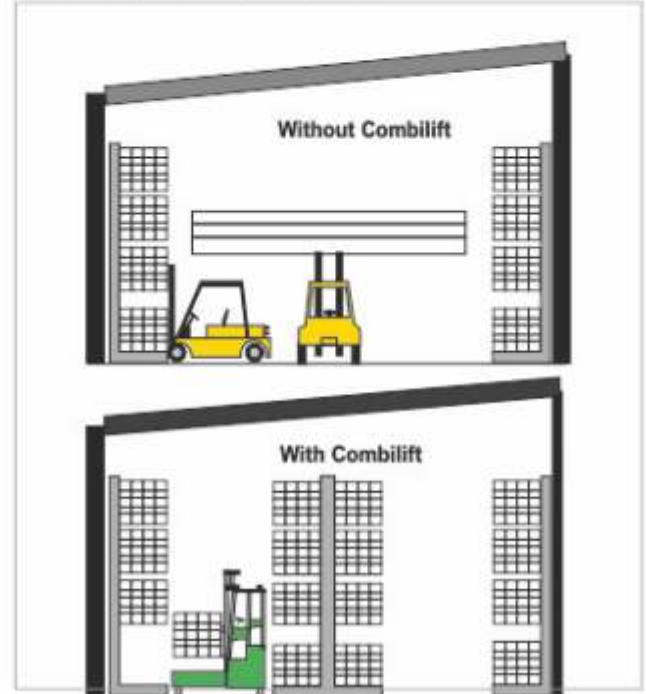


Model : **CB2500** • Lift height as high as : **7500 mm.**

Lift Capacities up to : **25000 kg.**

Type of models : **Diesel, Electric & LPG**

### How CombiLift Works For You :



Moving long goods through doorways with sideways movement



## SPECIALIZED MATERIAL HANDLING EQUIPMENTS

### THE LONG LOADS SPECIALIST FORKLIFT



Perfect for movement of long & huge pipes



Ideal for movement in narrow spaces such as Cantilever Storage Systems



# SPECIALIZED MATERIAL HANDLING EQUIPMENTS



## VERY NARROW AISLE ARTICULATED FORKLIFT

*Also Available On Long Term Rent*

- Reduces aisle widths & increases storage space
- Increases storage space by up to 50%
- Enables a dramatic reduction of working aisle widths
- Cut warehousing costs
- The 2-in-1 machine - Reach Truck and counterbalance forklift in one machine
- Lift capacities of up to 2.5 t
- Electric and LPG powered models

Maximum Lift  
Height Up to  
41 Feet  
(12.5 Metres)



Aisle Width as low as : 1750 mm. • Lift height as high as : 12500 mm.  
Lift Capacities up to : 2500 kg. • Type of models : Electric & LPG

### HOW AISLE MASTER WORKS FOR YOU



Increases the storage  
space available by up  
to 50% as compared to  
a normal ELECTRIC  
STACKER or FORKLIFT  
TRUCK







- Lifts 900 kgs. up to a massive 12.4 meters.
- Mast equipped with camera to guide positioning of pallet
- Can operate in an aisle width as narrow as 2.1 meters.



# SPECIALIZED MATERIAL HANDLING EQUIPMENTS

## THE CONTAINERS & OVERSIZED LOADS HANDLING SPECIALIST



### COMBILIFT STRADDLE CARRIER

Model : COMBI SC • Lift Capacities up to : 35000 kg.

- 2-Wheel Hydrostatic Drive
- 2-Wheel Steer
- Capable of travelling fully loaded
- 2 Minute Off-Loading From Trailer To Ground
- Excellent 360 ° Visibility From Driver Position
- Eliminates Trailers Waiting To Be Loaded And Unloaded
- Safer Stuffing / De-stuffing At Ground Level
- Low Ground Pressure When Fully Loaded
- More Economical To Run Versus Reach Stackers
- Reduced Energy Consumption
- Lighter Weight Versus Reach Stackers
- Narrow Aisles For Maximum Storage
- Rough Terrain & Ramp Friendly
- Works On Compacted Stone, Bitumen And Light Concrete
- Exceptional 3-Wheel Maneuverability Circle





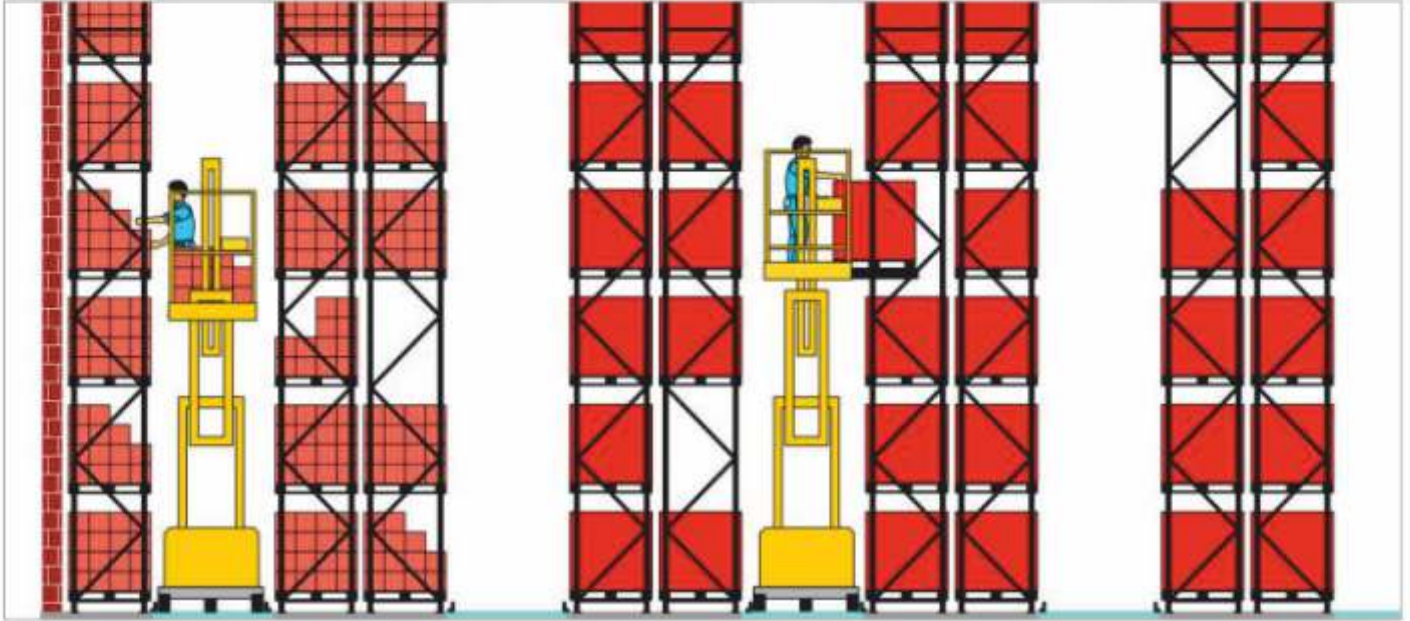
# SPECIALIZED MATERIAL HANDLING EQUIPMENTS

## MAGAZINER MAN-UP TURRET TRUCKS



*Maximise your Order Picking Efficiency!*

**Magaziner Man-Up Turret Trucks** meet the rigorous industry standards, and are also flexible to meet the space and material transport requirements of the individual customer. Compact, powerful, manoeuvrable – and above all adaptable to the customer's specific environment. Magaziner Man-Up Turret Trucks, from Magaziner Lager- & Fördertechnik, **Germany**. The perfect solution for unit load storage and individual article order selection. Since the operator rides up with the load to the desired storage location, he is afforded an equally good view of the load and its rack destination. With a minimum frame width of 1,000 mm and a maximum lift height of 9 mtrs. to 17 mtrs, the Magaziner EK series offers the optimum space utilization. Capacities range from 1.1 tons to 1.5 tons.



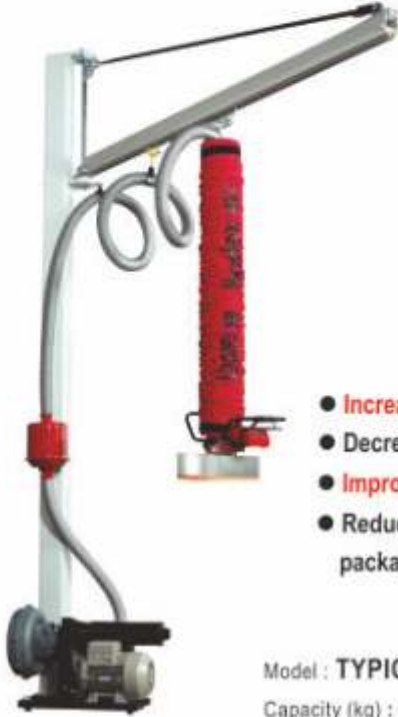
**MAN-UP TURRET TRUCKS (Very Narrow Aisle - V.N.A.) (7 Models available) | Lift height up to : 9000 mm.-17000 mm. • Lift Capacities up to : 1100-2000 kg.**





These Vacuum lifters are typically used in the following industrial segments :

- Airports • Distribution centres • Parcel carrying terminals
- Various Industrial application for lifting loads upto 200 kgs and for palletizing / depalletizing various products.



- **Increase labour productivity**
- **Decrease labour fatigue**
- **Improve handling**
- **Reduce damages to sensitive packages**

Model : **TYPICAL VACUUM LIFTER**

Capacity (kg) : Upto 200



Parcel carriers moving & scanning



Order picking at picking area



Used for sacks picking



Used for carton picking



# INNOVATIVE STORAGE SYSTEMS

**Nilkamal BITO Storage Systems Pvt. Ltd (NBSS)**, is an ISO 9001 2008 company and a 50:50 Joint Venture between **Nilkamal Ltd.**, the largest manufacturer of material handling crates and bins in India & **BITO Lagertechnik Bittmann GmbH**, a leading manufacturer of Storage systems in Europe, NBSS is into manufacture and sale of storage systems in metal. With a manufacturing facility equipped with the latest machinery imported from Europe, we are steadily growing to cater to systematic material storage needs and quick retrieving requirements right from the manufacturing level to warehousing level. Our PLC integrated "Punching- Roll forming – Cutting" line and automated powder coating line ensures international quality engineered products.



Pallet Storage Systems



Universal Storage Systems



Mezzanine Storage Systems

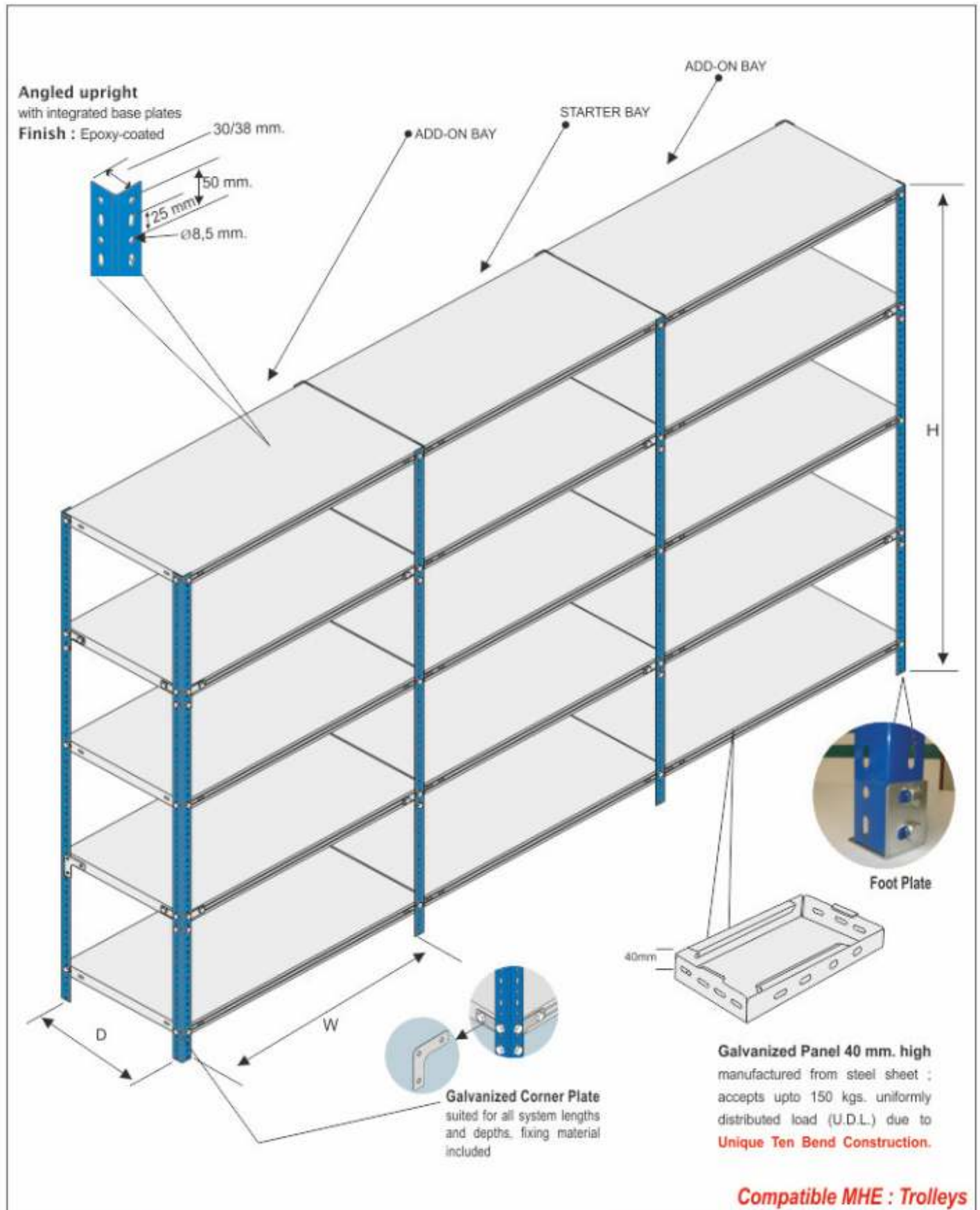


# INNOVATIVE STORAGE SYSTEMS

## UNIVERSAL STORAGE SYSTEM (USS)

### General Advantages :

- Quick and easy to assemble, mount & cost-effective installation
- Economical in long run
- Also ideal as storage for archives
- More storage capacity on less floor space
- Increased load capacity due to corner plates
- Direct access to all references
- Very good overview due to clear product presentation
- Can be integrated into almost any storage environment
- Platforms can be conveniently re-adjusted on a 25 mm pitch
- Extension bays can be added whenever required





# INNOVATIVE STORAGE SYSTEMS

**Nilkamal BITO Storage Systems Pvt. Ltd (NBSS)**, is an ISO 9001:2008 company and a 50:50 Joint Venture between **Nilkamal Ltd.**, the largest manufacturer of material handling crates and bins in India & **BITO Lagertechnik Bittmann GmbH**, a leading manufacturer of Storage systems in Europe. NBSS is into manufacture and sale of storage systems in metal. With a manufacturing facility equipped with the latest machinery imported from Europe, we are steadily growing to cater to systematic material storage needs and quick retrieving requirements right from the manufacturing level to warehousing level. Our PLC Integrated "Punching- Roll forming – Cutting" line and automated powder coating line ensures international quality engineered products.

## UNIVERSAL STORAGE SYSTEM (USS)

### General Advantages :

- Quick and easy to assemble, mount & cost-effective installation
- Economical in long run
- Also ideal as storage for archives
- More storage capacity on less floor space
- Increased load capacity due to corner plates
- Direct access to all references
- Very good overview due to clear product presentation
- Can be integrated into almost any storage environment
- Platforms can be conveniently re-adjusted on a 25 mm pitch
- Extension bays can be added whenever required





# INNOVATIVE STORAGE SYSTEMS

## UNIVERSAL STORAGE SYSTEM WITH FLEXIBLE PARTITIONS :

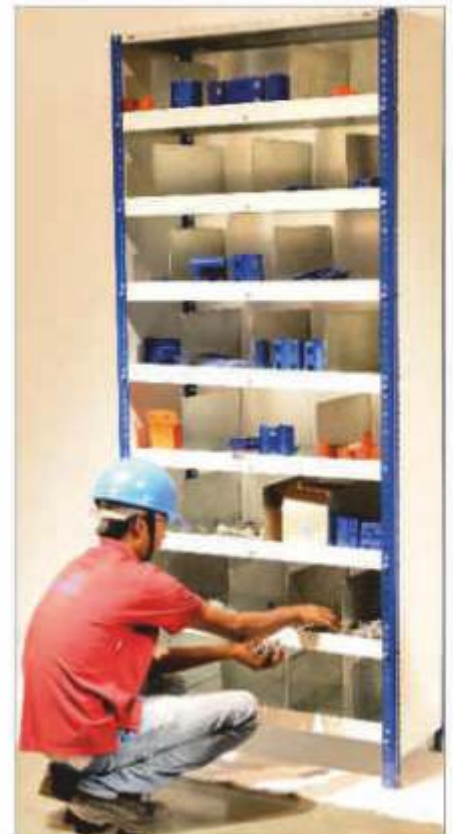
The One Product for your Non-Standard Storage Needs! Introducing a Universal Storage System with total flexibility - The NBSS Flexi-Rack. With flexible partitions and multi-slotted panels and front stopper strips, the Flexi-Rack is the perfect solution for well segregated storage of nut -bolts, tools and small components. Slotted uprights allow for adjustable levels, so you can adjust height between any two levels to your requirement. Similarly, the panels have multiple slots to take in vertical separators, so the storage space can be adjusted horizontally too. The Flexi-Rack also takes front stopper strips, thus providing security against slippage or spillover for the contents stored. The Flexi-Rack is a superior product brought to you by Nilkamal Bito Storage Systems, an Indo-German joint venture between Nilkamal Ltd and BITO Lagertechnik Bittmann GmbH



**Just adjust the flexi way...!!!** : Slotted uprights allow Flexibility to adjust levels. Slotted panels allow Flexibility to adjust horizontal space too !



**Store. Stop spilling over...!!** : Front stopper strips hold back the contents of the storage partitions from spilling over.





## LONG SPAN SHELVING SYSTEM (LSS) :

Long Span Shelving (LSS) is a product used for storing light and medium heavy goods, ranging from 150 kgs to 600 kgs. Ideal for products longer than 1300 mm and load per level greater than 200kgs. Thus the product fits in the intermediate category between the Universal Storage System (USS) and Pallet Storage System (PSS). Euro Pallets (1000 x 800mm) can be stored under the bottom level when the span is 2300mm.

Long span shelving can be used to store virtually anything, like :

- Crates • Boxes • Rolls • Files • Packets • Corrugated boxes • Paint cans
- The list can go on almost endlessly, for products between the range of applicable size and weight



Series	Frame height	Loading Levels	Shelving Depth	Beam width / Load per level
Light	2000 mm	4	600	1500 mm / 500 kg
			800	1800 mm / 400 kg
			1000	2400 mm / 325 kg
Light	2500 mm	5	600	1500 mm / 500 kg
			800	1800 mm / 400 kg
			1000	2400 mm / 325 kg
Light	3000 mm	6	600	1500 mm / 500 kg
			800	1800 mm / 400 kg
			1000	2400 mm / 325 kg
Heavy	2000 mm	4	600	1800 mm / 725 kg
			800	2400 mm / 560 kg
			1000	2700 mm / 625 kg
Heavy	2500 mm	5	600	1800 mm / 725 kg
			800	2400 mm / 560 kg
			1000	2700 mm / 625 kg
Heavy	3000 mm	6	600	1800 mm / 725 kg
			800	2400 mm / 560 kg
			1000	2700 mm / 625 kg

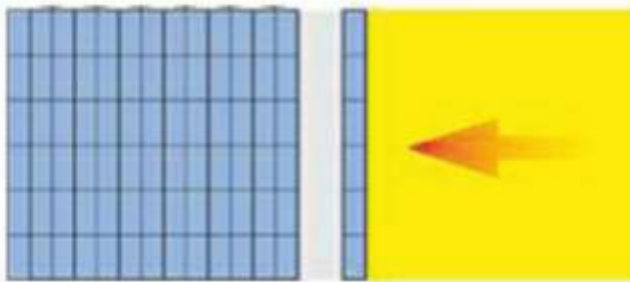
Compatible MHE : Trolley & Ladder (Refer page no. 38)

# INNOVATIVE STORAGE SYSTEMS

## MOBILE COMPACTOR STORAGE SYSTEM :

### SAVES MORE SPACE V/S A STATIC STORAGE SYSTEM :

Mobile Compactor System is based on the same components as a static system. Mounted onto light or heavy duty base units which can be moved in parallel direction to each other, the system only requires one aisle to provide access to all items in stock. Depending on the system, storage capacity increases between 100 % and 180 % respectively floor space occupation reduces by up to 50%.

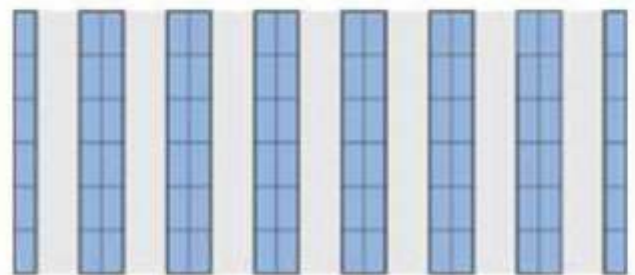


#### Configuration:

2 Static single rows (single sided use) • 6 Static double rows (double sided use)

Space requirement : 9,650 x 6,100 mm • Floor space gained : 45 %

Floor space utilization : 45 %



#### Configuration :

2 Static single rows (single sided use) • 6 Mobile double rows (double sided use)

Space requirement: 5,300 x 6,100 mm • Floor space gained : 45 %

Floor space utilization : 85 %





## MOBILE COMPACTOR STORAGE SYSTEM :

Useful for compact storage small spaces, the NBSS Mobile Compactor Systems are designed as per the floor space available and for storage and movement. Customer need is fully studied and solutions discussed prior to the final recommendation. The NBSS Mobile Compactor Systems are very Compact and provide smooth mobility and an exclusive locking system for the storage security.

### GENERAL ADVANTAGES :

- Economic storage
- Higher floor surface utilization
- Increased storage capacity
- Improved overview of all product lines on stock
- Reduction of floor space costs as compared to static storage
- Increase of storage capacity of up to 180 % over static solutions
- Good utilization of warehouse volume
- Low cost solution
- Base units accept different types of storage systems
- Up to 50 % less floor space occupied
- Direct access to all items
- Effortless manual operation with push handles or cranks

### SALIENT FEATURES :

- Custom-made compact system.
- Saves expensive floor space.
- Smooth and easy functioning.
- Prime quality materials and components.
- Locking system is provided for security.
- Built to last.

### USER INDUSTRIES :

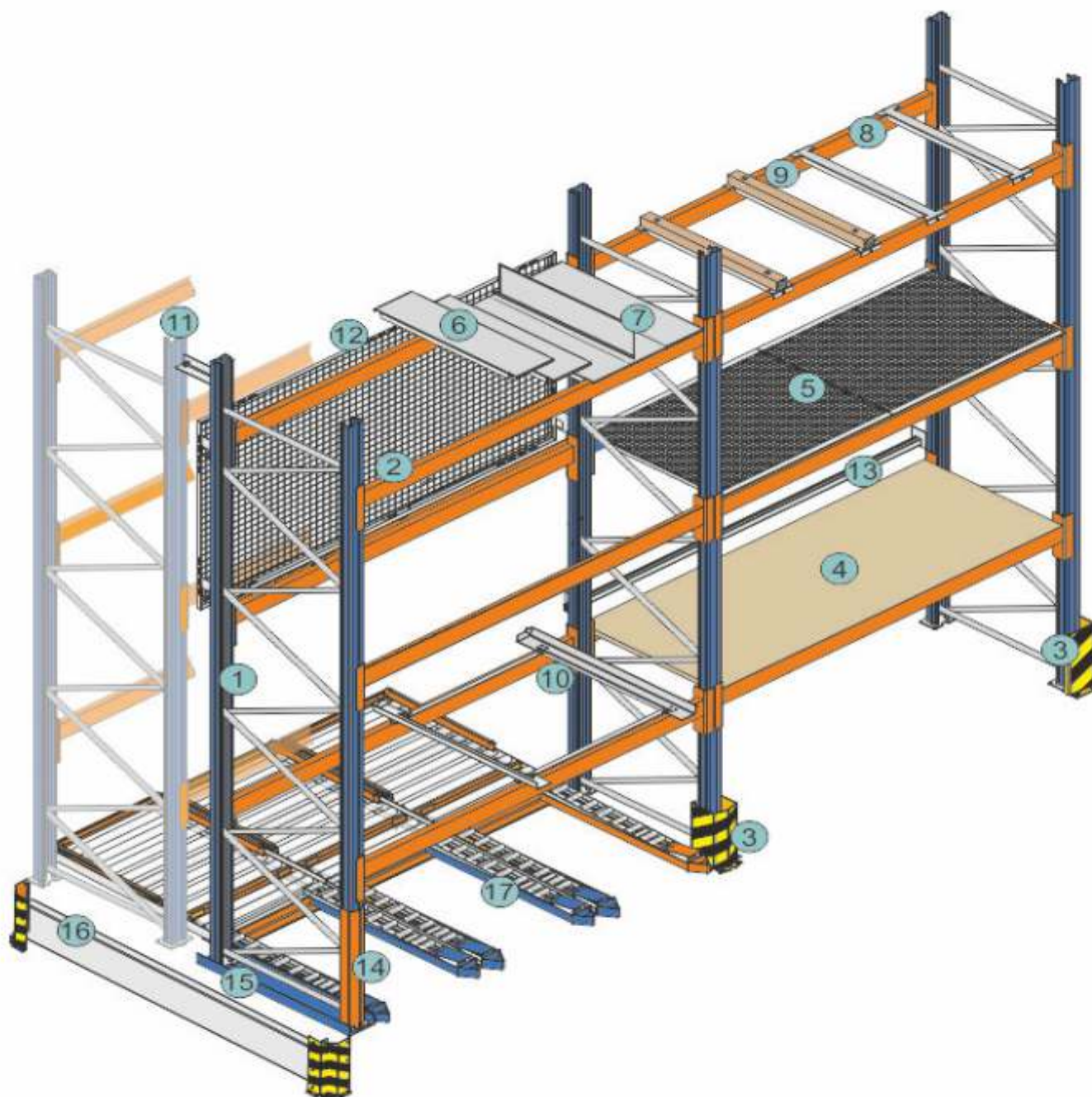
- General Industry
- Pharma & Hospitals
- Libraries & Educational Institutes
- Offices • Warehousing • Logistic Companies



# INNOVATIVE STORAGE SYSTEMS

## PALLET STORAGE SYSTEMS :

● Multiplication of storage surface by multi-tier or highbay storage systems ● Lower investment costs into real estate and buildings as compared to storage at floor level height ● Suited for a high stock rotation frequency ● Direct access to all bays (reference lines) = easy and convenient order picking ● Fast adaptation to changing reference lines without the need of exchanging your service fleet.



### Index for above schematic drawing

- |  |                            |  |
|--|----------------------------|--|
| 1 : Frame  | 2 : Beam                   | 11 : Spacer for back-to-back rows  |
| 3 : Column Guard                                 | 4 : Chipboard Decking      | 12 : Wire mesh back cladding   |
| 5 : Mesh Decking                                 | 6 : Drop-over Steel Panels | 13 : Back Stopper  |
| 7 : Divider                                      | 8 : Pallet Support Bar     | 14 : Upright protector   |
| 9 : Pallet Support bar with squared timber block | 10 : Support Tray          | 15 : Load Spreader   |
|  |                            | 16 : Row guard   |
|  |                            | 17 : Retro-fit pallet racking : Floor mounted twin track picking unit with load separator for double deep pallet storage, serviced by hand pallet truck. |

### Compatible MHE

Equipment	Refer to Page No.
Hand Pallet Truck	43
Electric Stacker	44
Electric Reach Truck	45
Electric Forklift	51
Aisle Master	56



## Racking Pallet Storage Systems :

The most popular and economical system for pallet storage. Suitable for any type of pallet size and weight to optimize storage. This system can be designed to be serviced with any type of MHE starting from hand pallet trucks at floor level to electric stackers, reach trucks, forklift trucks VNA forklift trucks etc.

Advantages : ● Cost effective, maximizes available space ● Suitable for high-bay warehouses with high storage capacity ● Direct access to all the SKU's, easy stock control ● Configuration can be easily modified or extended ● Lower costs by storing bottom level of pallets on floor



## Pallet Storage Systems with Decking Panels :

**Pallet Storage Systems with Decking Panels** facilitates storage of non palletized items. Ideal for medium to large sized items that can be handled manually. It is a flexible system for managing variety of items. Higher levels can be added by providing catwalks and multi-tier systems.

Advantages : ● Loading levels can be customised based on height of the SKU stored. ● Integration possible with suitable material handling equipment for moving material to various levels ● Goods Lifts can be added on custom fabricated staircases provided for ease of use. ● Wide range of accessories available :



**Compatible MHE :** Equipment : Trolley (Ref. Page no. xxx) ● Ladder (Ref. Page no. xxx) ● Aisle Master (Ref. Page no. xxx)



# INNOVATIVE STORAGE SYSTEMS

## Mezzanine Storage Systems :

The mezzanine system is the ideal solution for maximum utilization of building height, multiplying the effective surface area available for storage. They are stand-alone structures, easily assembled and adjustable to any space and customer needs. They use a variety of accessories, such as railings, stairs, pallet unloading points, etc. Mezzanines are either rack supported mezzanines with racks making up the ground level or pillar supported mezzanine.

### Advantages :

- Boltless assembly of all basic components ● Full length frames - no joining plates required
- Stiffening beams & additional cross bracing provide for a high load capacity & give structural safety to all bays
- Boltless adjustment of all platforms allows flexible positioning of levels ● Safe & convenient stairways secured by railing
- Useful equipment and accessories ● Galvanised surface finish (Epoxy coating upon request)

### Pillar Supported Mezzanines :



### Rack Supported Mezzanines :



Compatible MHE for both :

Trolley	Hand Pallet Truck	Electric Stacker	Electric Reach Truck	Electric Forklift
38	43	44	45	51



# INNOVATIVE STORAGE SYSTEMS

## Mezzanine Storage Systems - Our Installations



### Pillar Supported Mezzanine :



### Rack Supported Mezzanines :





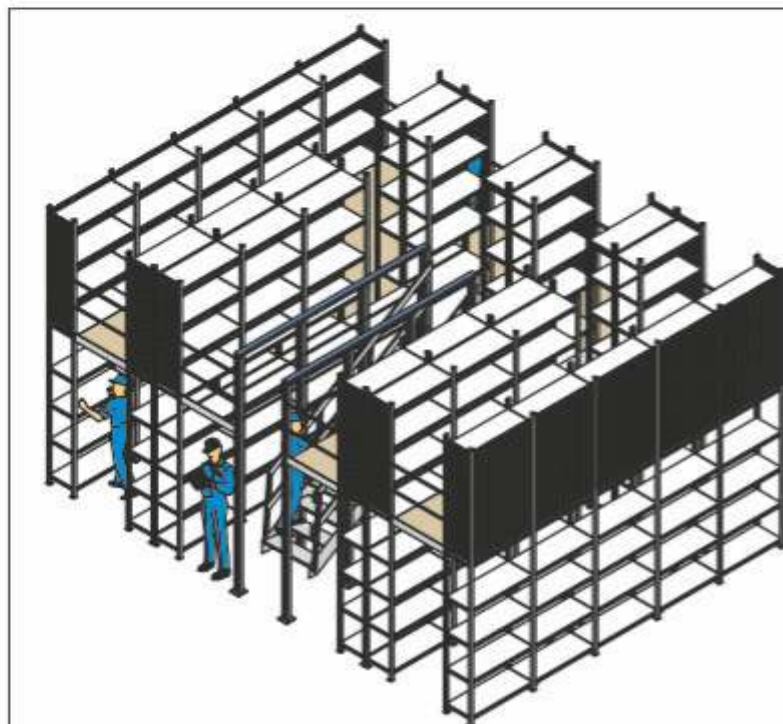
# INNOVATIVE STORAGE SYSTEMS

## Multi-Tier Storage Systems :

The **Multi Tier Storage System** is the ideal solution for manual storage where available space is limited. This storage system is selective, allows direct access to all references stored; and is adaptable to any type of unit load. This storage system gives best utilization of height by creating different aisle levels which are accessed by means of stairs. The Multi Tier Storage System is shelving built into two or more levels. The bottom shelving supports the upper levels. The uprights are heavy duty in order to bear the loads from the upper levels. Multi Tiers are often used where the storage of many articles is required.

**Advantages :** • Utilisation of storage volume can be increased by up to 100% • High degree of floor surface utilisation • Simultaneous under picking on several tiers • Additional floor space is gained for storage & assembly

### Two Tier Installation :



Movement of goods inside a Multi Tier Storage System is either manual or assisted by trolleys or even hand pallet trucks, depending on the aisle width of the system. Goods can be moved to higher levels either by Goods lift, carried up stairs (G+1) or to specially configured pallet loading locations on respective levels with suitable MHE such as :

**Compatible MHE :**

Equipment	Refer to Page No.
Trolley	38
Hand Pallet Truck	43
Electric Stacker	44
Electric Reach Truck	45
Electric Forklift	51

Multi Tier Storage Systems can be configured from either **Heavy Duty Pallet Storage Systems** capped with Decking Panels (**MTPSS**) for heavy loads or from **Universal Storage Systems** components for lighter loads per level (**MTUSS**).

## Multi-Tier Universal Storage Systems:





# INNOVATIVE STORAGE SYSTEMS

Multi-Tier Pallet Storage Systems - Our Installations





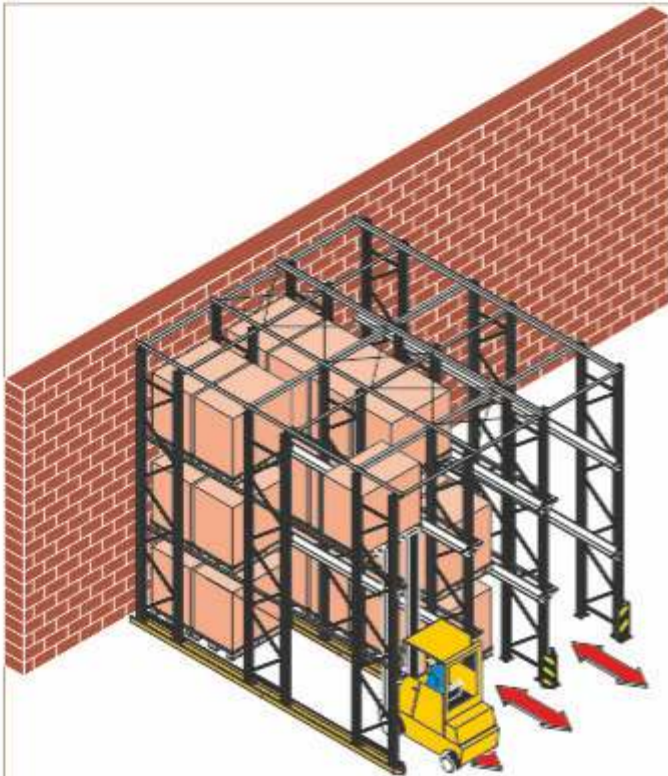
# INNOVATIVE STORAGE SYSTEMS

## DRIVE-IN SYSTEM :

This type of storage is chosen for pressure sensitive goods or unstable storage units which are stored in big quantities. The range of products stored in this system is small to medium-sized and has a low picking frequency. This storage solution is ideal for a small pallet turnover and favours an employment as seasonal store.

### General Advantages :

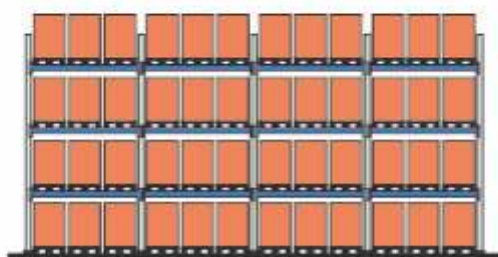
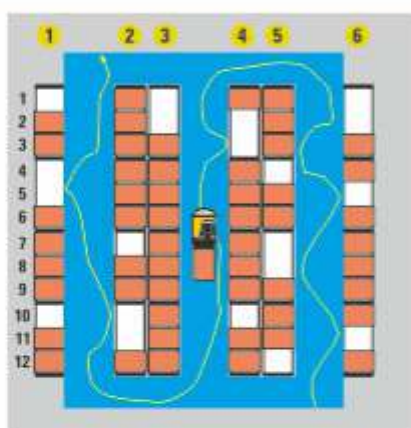
- Compact Storage according to the First In - Last Out principle
- No pressure damage
- Safe storage of pallets with unstable loads
- High volume utilization due to compact storage
- Optimum volume utilization
- Saves floor space
- Very economic pallet storage systems



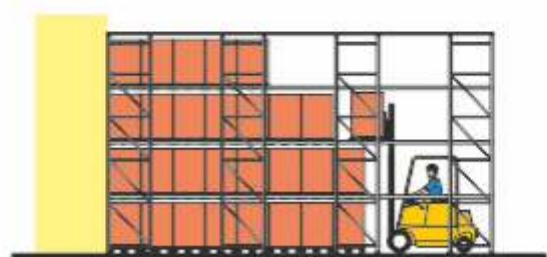
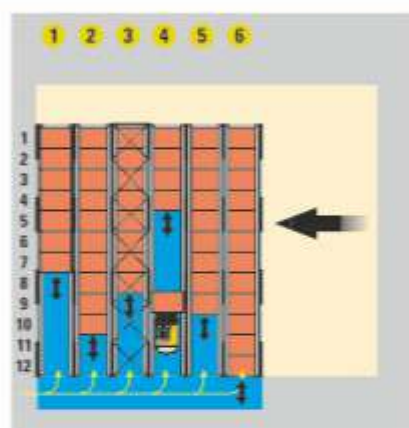
### Compatible MHE :

Equipment	Refer to Page No.
Hydraulic Pallet Truck	43
Electric Stacker	44
Electric Reach Truck	45
Electric Forklift	51
Combilift Forklift	54

### Conventional Pallet Storage Systems :



### Drive-In Pallet Storage Systems :





# INNOVATIVE STORAGE SYSTEMS

## DRIVE-IN SYSTEM - Our Installations





# INNOVATIVE STORAGE SYSTEMS

## AUTOMATED STORAGE & RETRIEVAL SYSTEM (ASRS) :

Practical storage systems for the growing Indian Industry : Optimizing space efficiency, adaptability and accessibility to all stored items. Systems for warehouses, in-process goods and shop floor. Designing specific solutions tailored to customers needs is our forte; perfection is our passion!

### General Advantages :

- Quick and easy to assemble, mount & cost-effective installation
- Economical in long run
- Also ideal as storage for archives
- More storage capacity on less floor space
- Increased load capacity due to corner plates
- Direct access to all references
- Very good overview due to clear product presentation
- Can be integrated into almost any storage environment
- Platforms can be conveniently re-adjusted on a 25 mm pitch
- Extension bays can be added whenever required



### Compatible MHE :

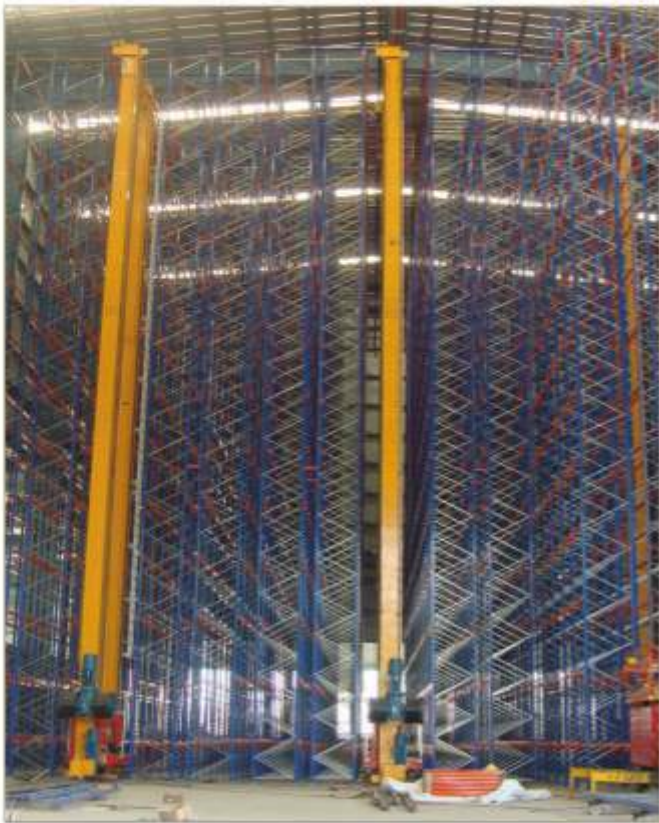
Equipment	Refer to Page No.
Electric Stacker	44
Electric Reach Truck	45
Electric Forklift	51
Aisle Master	56



# INNOVATIVE STORAGE SYSTEMS



## AUTOMATED STORAGE & RETRIEVAL SYSTEM (ASRS) - Our Installations





# INNOVATIVE STORAGE SYSTEMS

## Cantilever Storage Systems :

**Salient Features :** ● Also suitable for vertical storage ● Tubular arms for coils and vertically stored goods

● Straight arms with decking levels for flexible long loads & bulky goods.

● Inclined platform levels with decking for ergonomic order picking of bins & containers filled with small part & components.

**Cantilever Storage Systems** are designed for single or double sided use, cantilever storage systems are ideal for long loads.



Single sided use



Double sided use

**Compatible MHE :**

Equipment	Electric Stacker	Electric Reach Truck	Electric Forklift	Combilift Forklift
Refer to page no.	44	45	51	54



## Cantilever Storage Systems - Our Installations





# INNOVATIVE STORAGE SYSTEMS

## PALLET MOVER SYSTEM :

### Simple principle for maximum efficiency :

The pallet mover system consists of an automatic shuttle able to move within the drive-in channels offering a high density automated storage. Controlled by an interactive radio transmitter, the pallet mover is able to load, unload and arrange pallets into the drive-in channels. Moved by a fork lift, pallet mover operates in every channel according to the FIFO (First In First out) and LIFO (Last In First out) procedures. A forklift picks up the pallet mover unit, and places it into the center channel of the chosen rack. Thereafter, the forklift places incoming pallet loads on the pallet mover. While the forklift picks up the next pallet to be stored, the pallet mover transports the pallet quickly to its designated storage location within the rack. A wireless remote controls the movement of the pallet mover. The best use for pallet mover is in Cold Storage of food industry where temperatures can reach down to  $-30^{\circ}$ . In such an environment, storage systems have to maximise the number of pallets, feature few aisles so to optimize the ratio benefit/costs. While a pallet mover solution in itself is not a new concept the key differentiator is Nilkamal Bito Storage Systems (NBSS) which brings both specific local and international experience and expertise to work for you.

### Main advantages of AUTOSAT® :

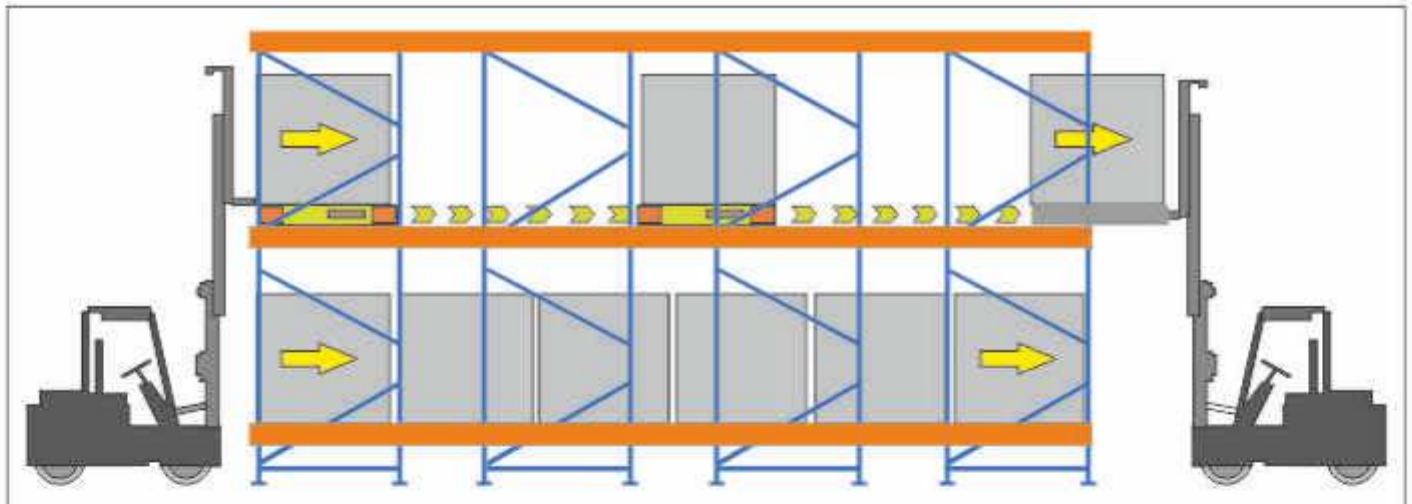
- Efficient system of compact storage for warehouses with low levels of SKU
- Optimising of storage, loading and unloading stages
- Low level of risks or stress to the warehouse operating staff
- Low level of risks or damage to the equipment -loading machinery and racks, thanks to the movement front warehouse

### Specific advantages of AUTOSAT® :

- Below Zero BZ mode for environment at low temperatures -down to  $-30^{\circ}$
- Different models to meet different pallets dimensions
- Setting of gap between pallets through the remote control
- Maximum capacity 1.500 Kg
- Interactive remote control with wave capacity 150 m in open field
- Ion Lithium battery without memory effect

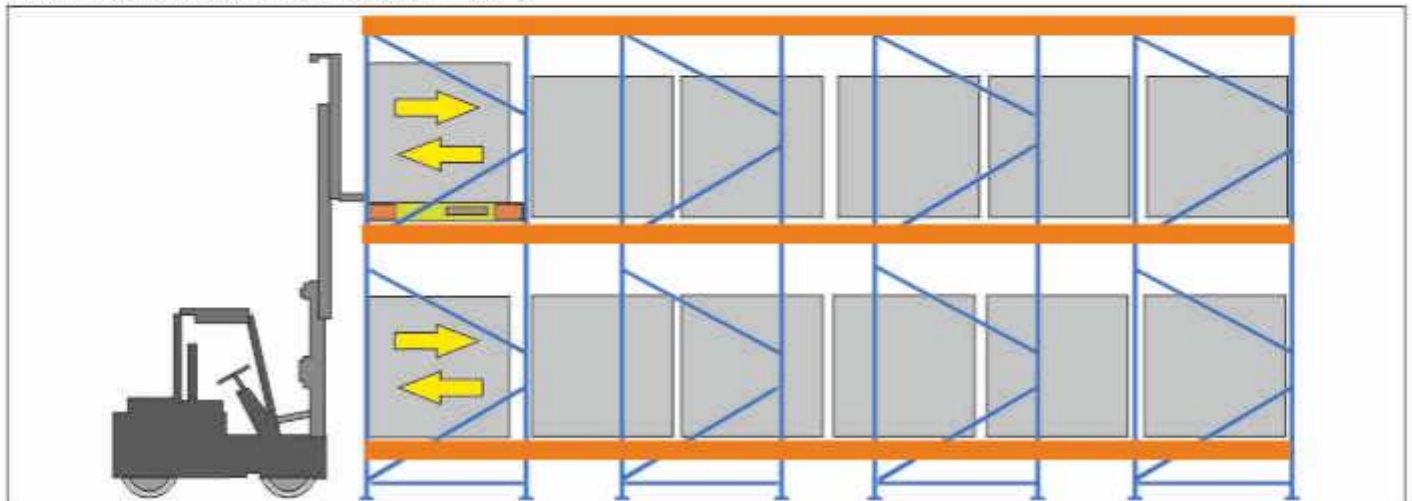
### FIRST IN FIRST OUT (FIFO) :

Storage method utilized in the food and pharmaceutical industries due to a precise management of expiry dates. It favors the picking of pallets containing goods produced earlier, hence stored as first. Autosat cooperates in this function allowing storage from one front and picking from the opposite of the racking system. It is necessary therefore, the two fronts of the racks to be free to allow storage and picking.



### LAST IN FIRST OUT (LIFO) :

Storage method utilized in the food and pharmaceutical industries due to a precise management of expiry dates. It favors the picking of pallets containing goods produced earlier, hence stored as first. Autosat cooperates in this function allowing storage from one front and picking from the opposite of the racking system. It is necessary therefore, the two fronts of the racks to be free to allow storage and picking.





# INNOVATIVE STORAGE SYSTEMS

## PALLET MOVER SYSTEM - Installations





# INNOVATIVE STORAGE SYSTEMS

## Kanban Systems :

### Available Sizes (With 5 levels) :

1,000 (W) x 800 (D) x 1,300 (H) mm

● 1,400 (W) x 800 (D) x 1,300 (H) mm

### Types :

● Both sides inclined ● One side inclined

### Accessories provided :

● Front stoppers on all levels

● 4 Nylon wheels per unit (Rubber or metal wheels can be provided on request)

### Applications :

A Kanban storage unit is ideally used for smaller and lighter parts needed frequently. It is mostly used near production or assembly areas.

### Salient Features :

- Flexible and mobile storage system for small and medium sized light weight parts
- Galvanized platforms ensure a longer rust free life
- Each level has a load carrying capacity of 150 kg UDL with a bay load of maximum 750 kg
- Sturdy construction of the trolley base stabilizes the entire unit
- High quality wheels ensure smooth and trouble free movement







# HÄNEL AUTOMATED VERTICAL STORAGE AND RETRIEVAL SYSTEMS FROM NILKAMAL



## The Hänel LeanLift, RotoMat and LockoMat

Hanel Automated Vertical Storage and Retrieval Systems save you space and time as against conventional storage systems and time to retrieve your goods • Save you occupied floor space • Saves time in retrieval • Ergonomic retrieval, no bending, stretching or climbing ladders • Protect your goods from damage and theft • Compatible with your IT systems, giving you up to the minute reports of stored goods right at your desk • Backed by Nilkamal's after sales service



LeanLift - Ultimate Storage System



RotoMat Industrial - Optimize Material Handling



RotoMat Office - Efficient files retrieval, frees costly office space



LockoMat - Ideal for costly products and data





# HÄNEL AUTOMATED VERTICAL STORAGE AND RETRIEVAL SYSTEMS FROM NILKAMAL



## Hänel Lean-Lift®

The Hänel Leanlift is both storage rationalization and goods protection in one : At the center of the cabinet is a computer-controlled positioning lift - called the 'extractor'. In front of it and behind it are the storage shelves. This is where the articles are kept in containers. The storage locations are accessed automatically under electronic control by means of the extractor, which stores or retrieves the requested container. The goods are then delivered to the retrieval area at the correct ergonomic height.

### Schematic Drawing :



With the Hänel Lean-Lift® we offer you a first-class, high-tech system for storage organization and materials handling that saves time, storage space and costs, and enables a much more efficient workflow.

#### OVER 60 % MORE SPACE :

The Hänel Lean-Lift® uses the available room height and stores parts in height-optimized positions so that no space is lost. This produces maximum storage capacity on a minimal footprint. This in turn saves costs and helps to utilize the area dedicated to storage more economically.

#### WORK TIME SLASHED :

The Hänel Lean-Lift® brings the requested item automatically to the access area in seconds, where it can be retrieved at the optimum ergonomic height. Goods to man is the motto instead of man to goods. Access times are radically reduced and order-picking performance substantially improved.

#### THE RIGHT DECISION :

If you want to improve your intralogistics and reduce costs, you should talk to our product specialists first. They will work with you to develop your own 'tailor-made intralogistics concept'.



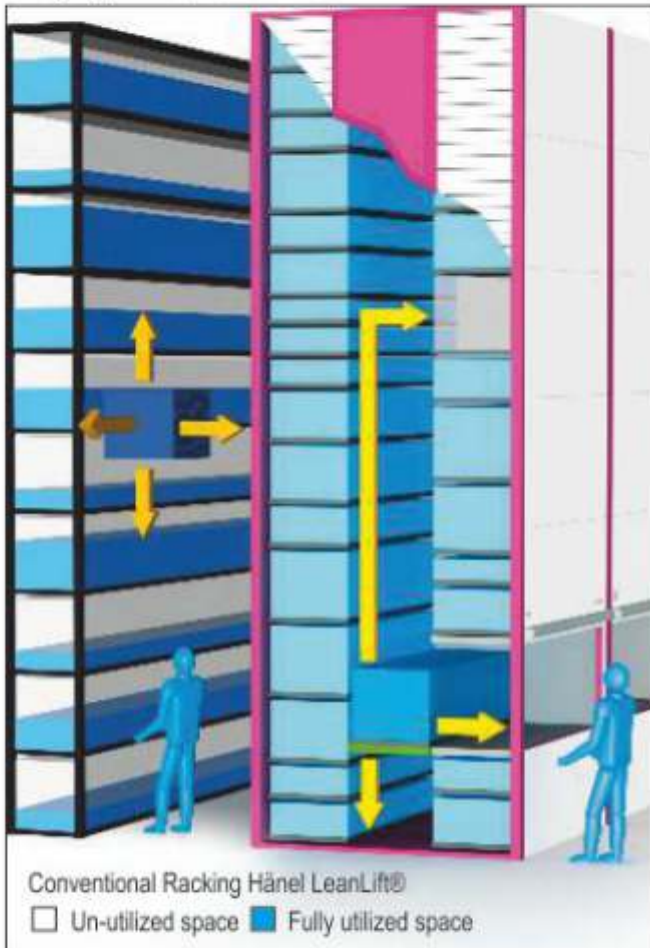


# HÄNEL AUTOMATED VERTICAL STORAGE AND RETRIEVAL SYSTEMS FROM NILKAMAL



## Distinct advantages over conventional rack storage!

**Advantages:** Over 60% more storage capacity over conventional racks • Optimum storage of highly varied parts without any loss of space • Storage capacity can be adapted step by step • More than one person at a time can operate the lift and process jobs • Retrieval times reduced • Units can be added, expanded or separated later • Better utilization of storage volume due to height-optimized storage • Decentralized storage right in the production hall.



Accurate height measurement for storing containers in the optimal packing density. Height-measuring light barriers spaced at 25 mm, 37.5 mm, 75 mm, 90 mm or 125 mm. When the container is drawn in, the highly accurate light barriers measure the articles, and the Hänel microprocessor control system finds the optimum storage location in the Hänel Lean-Lift®.



At the same time a protruding goods check is carried out. With its height sensors, profile wall and Hänel container technology, the Hänel Lean-Lift® provides vertical optimization and height optimization in one!

**Weigh each container accurately** The Hänel Lean-Lift® can be equipped



with an optional electronic 4-point weighing system to weigh each container in the access point without any loss of time. The current weight is then shown on the keyboard display. The weighing device allows the maximum load of the individual containers and that of the entire lift to be recorded. The additional payload is determined with the tare function. Container weight accurately ascertained in the access point with no loss of time thanks to the electronic weighing device

**The multi-purpose fold-down support rail**



The support rail at the access point can be raised and folded down as required. Storage containers can then be pulled out of the access point on smooth running plastic rollers. This makes work at the Hänel Lean-Lift® even more ergonomic. Heavy parts can



also be removed with a crane.

By aligning a heavy duty trolley, complete containers can be taken out of the Lean-Lift®, with the fold-down support rail. This means that even with particularly heavy parts (up to 1,000 kg per container) the container can be moved easily to the required destination. The Hänel Lean-Lift® can also handle bulky goods like Euro Pallets, engine blocks etc.

## The Hänel Multi Function Container



The Hänel Multifunction containers can be customized to handle highly diverse storage articles make highly diverse demands on the container. The containers are configured according to the weight and size of the goods handled, making each Hänel Lean-Lift unique. Hänel Multi-function containers are distortion free for smooth operation.







## HÄNEL AUTOMATED VERTICAL STORAGE AND RETRIEVAL SYSTEMS FROM NILKAMAL



### The Hänel RotoMat®

The Hänel RotoMat® creates an enormous amount of storage space on a small footprint. It works on the Ferris wheel principle, i. e. the archives come to the operator, not the operator to the archives. The space created on the footprint can be up to 60% more than using a conventional storage system.



RotoMat Operating Principle

The Hänel Rotomat® Industrial Carousel increases your storage efficiency, speeds up access times and facilitates ergonomic material handling. The extra storage capacity generated means a tremendous cost saving for you!



The Hänel Rotomat® Office Carousel filing and records management system makes use of the room height, so its compact design creates more filing capacity. This means expensive office space is freed for more efficient use.



Hanging Folder and files



Vertical Folder and files



Box files



# COLD CHAIN PRODUCTS



Multi Tier Racking System For Cold Storage



Ice Boxes



Fish Tubs



# ICE BOXES

Innovatively designed with latest technology made from food grade virgin USDA / FDA / EU approved polyethylene PU filled and UV stabilized for keeping hot items hot old items cold.



WT : Without Tap & Vending Lid



WTVL : Without Tap & With Vending Lid



With Tap & Without Vending Lid



With Drain Cap & Without Vending Lid



VL : With Tap / Drain Cap & Vending Lid



DVL : With Dual Vending Lid



Economy Insulated Ice Box



Blow Molded Ice Box

**Salient Features** Capacities Available from 20 Litres to 250 Litres (More than 60 models) With & Without Tap / Drain Cap & With & Without Vending Lid

- Manufactured from USDA / FDA / EU approved food grade polyethylene. • PU filled & UV stabilized.
- Excellent insulation maintains uniform temperature for storage & transportation of frozen food, fish, meat, confectionaries, ice cream, fruits & vegetables, chilled beverages, dairy products & pharmaceutical products.
- Hygienic, easy to clean & wash. Strong & durable. Ensures freshness of contents over a long duration.
- Stackable for space saving. • Used for storing chilled soft drinks, perishable items, snacks, pastries & frozen foods. • All the ice boxes are available with & without drain cap / tap & vending lid • Model 100 & 150 ltrs. capacity ice boxes have integral hinges. • 150 ltrs. is available with normal / single / dual / vending lid.



MODEL NO.	DIMENSIONS (L X B X H) in MM. approx.	
	Outer	Inner
RICE20LTR	410 X 290 X 320	320 X 250 X 255
RIC25LTR	500 X 335 X 303	390 X 282 X 252
RICE35LTR	542 X 452 X 239	500 X 410 X 182
RIC50LTR	645 X 405 X 420	520 X 350 X 340
BIC50LTRVL	645 X 390 X 385	570 X 315 X 300
RICE50LTR	605 X 390 X 330	510 X 350 X 285
RIC70LTR	750 X 530 X 430	650 X 430 X 305
RICE70LTROCT	750 X 480 X 380	683 X 415 X 290
RICE100LTROCT	812 X 533 X 430	743 X 464 X 330
RIC100LTR	750 X 530 X 520	650 X 430 X 390
RIC110LTR	755 X 535 X 560	655 X 435 X 392
RIC120LTR	610 X 610 X 650	510 X 510 X 500
RIC150LTR	840 X 575 X 745	680 X 450 X 600
RIC220LTR	1050 X 640 X 750	890 X 520 X 600
RIC250LTR	1015 X 700 X 758	875 X 508 X 615



Abbreviations : RIC : Roto Insulated Crate • BIC : Blow Molded Insulated Crate • WT : Without Tap / Drain Cap • VL : Vending Lid • E : Economy • OCT : Octagonal • LTR : Litres



# FISH TUBS

Innovatively designed with latest technology made from food grade virgin USDA / FDA / EU approved polyethylene PU filled and UV stabilized. Mainly used for storing marine products at the ports. All the below mentioned insulated fish tubs are available with & without lids

## ROTO MOULDED INSULATED FISH TUBS



Model : RIFT1000  
CAPACITY : 1000 LITRES  
(Other capacities available :  
310 / 460 / 660 litres)



Model : RIFT660NW  
CAPACITY : 660 LITRES

## NEW GENERATION INSULATED FISH TUBS



Model : RIFTE1000  
CAPACITY : 1000 LITRES  
(Other capacities available :  
400 / 600 litres)

## CUBE INSULATED FISH TUBS



Model : RIFT35  
CAPACITY : 1000 LITRES  
(Other capacity available : 700 litres)

## ROTO MOULDED INSULATED FISH TUBS

MODEL NO.	OUTSIDE DIMENSIONS (L X B X H) approx. in MM.	INSIDE DIMENSIONS (L X B X H) approx. in MM.	HEIGHT OF TUB WITH LID
RIFT310	915 X 715 X 710	865 X 665 X 575	765 MM.
RIFT460	1230 X 1030 X 580	1165 X 965 X 430	650 MM.
RIFT660	1230 X 1030 X 750	1165 X 965 X 600	820 MM.
RIFTNW660	1235 X 1035 X 750	1167 X 967 X 600	820 MM.
RIFT1000	1470 X 1180 X 890	1390 X 1100 X 725	965 MM.



## NEW GENERATION INSULATED FISH TUBS :

MODEL NO.	OUTSIDE DIMENSIONS (L X B X H) approx. in MM.	INSIDE DIMENSIONS (L X B X H) approx. in MM.	HEIGHT OF TUB WITH LID
RIFTE400	1200 X 1000 X 570	1135 X 935 X 380	640 MM.
RIFTE600	1200 X 1000 X 750	1135 X 935 X 560	820 MM.
RIFTE1000	1470 X 1170 X 880	1385 X 1085 X 665	960 MM.



## CUBE INSULATED FISH TUBS :

MODEL NO.	OUTSIDE DIMENSIONS (L X B X H) approx. in MM.	INSIDE DIMENSIONS (L X B X H) approx. in MM.	HEIGHT OF TUB WITH LID
RIFT25	1220 X 1085 X 890	1105 X 965 X 695	965 MM
RIFT35	1220 X 1085 X 1205	1105 X 965 X 1005	1275 MM



Abbreviations : RIFT : Roto Insulated Fish Tub • E : New Generation • NW : New Version



### RACKING SYSTEMS FOR COLD STORAGE :

Nilkamal Bito Storage Systems Pvt Ltd, our Mfg. JV with Bito Lagertechnik Bittmann GmbH, Germany, offers state of the art storage system for various applications such as seafood storage, fresh produce, fruits etc. We are an ISO 9001:2008 Organization having the latest manufacturing systems imported from Europe. With a spectrum of customers spanning India, we are at your service to offer you a comprehensive storage and handling solution.

#### MULTI TIER RACKING SYSTEM FOR COLD STORAGE :



### CAMSHELVING / CAMSHELVING ELEMENTS STORAGE SYSTEMS :

**Camshelving**  
ELEMENTS SERIES



CKD yet as strong as steel and with anti microbial surface coating, **Camshelving / Amshelving Elements** are your ideal choice for Cold Room storage. These systems are completely washable, have adjustable levels and can sustain 250 kg / level or approx 1000 kg for a 4 level bay.





# FOOD SERVICE & HOSPITALITY PRODUCTS



## *Satisfaction is equal to Motivation...!!!*

A satisfied workforce is a motivated workforce. And nothing brings more satisfaction every day than a good hot meal served in the company cafeteria. The **Cambro Nilkamal** range of food service products helps keep meals hot and desserts cold while being transported from base kitchen to cafeteria. Compartment meal trays keep the food organized for fast service. And **Cambro Nilkamal's** LCD's are indispensable for the tea / coffee breaks. Made from food grade materials, **Cambro Nilkamal** food service products are hygienic and super easy to clean. Upgrade to International food service standards with **Cambro Nilkamal** products today! **Cambro Nilkamal Pvt Ltd** is **Nilkamal's** manufacturing and marketing JV with **Cambro Mfg Co USA**, world leader in Food Service products, with a range of over 14000 products, which are preferred by top hotels and restaurants worldwide. Nilkamal now brings you the same international quality products, at affordable prices through its all India sales network, just a phone call away!



**Compartment Trays**



**Ultra Pan Carriers to keep food hot during transport**



**Insulated Beverage Containers for Tea / Coffee**



# FOOD SERVICE & HOSPITALITY PRODUCTS :

## ULTRA PAN CARRIERS : UPC400 - Keep food hot for 4 hours !

Keep your food steaming hot while it is being transported from base kitchen to your cafeteria premises. You can carry the items separately - rice, rotis & curry in spill proof Cambro GN pans fitted with Griplids® or pre-packed Cambro Nilkamal Compartment Trays designed to fit 2 in a row per level in a UPC400. Ensure workforce satisfaction with a great hot meal...!!



Cambro GN Pan with Griplid®



Loading in UPC400



Pre-packed trays in UPC400



UPC400 being loaded in vehicle

## MAKE YOUR FOOD LOOK GOOD !

Ensure staff satisfaction with a well laid out plate - Cambro Nilkamal's compartment trays, meal trays and fast food trays. Complemented by Cambro Nilkamal's virtually unbreakable poly carbonate glasses, tumblers, pitchers as well as bowls and mugs for soups and side dishes.



Colorful compartment trays



Food trays (Small) with dishes & bowls



Food trays (Big) with dishes & bowls



Unbreakable Polycarbonate Glasses & Pitchers



Compartment Trays being readied for service

## TAKE CARE OF TEA / COFFEE BREAKS WITH THE 500LCD CAMTAINER® !

- Use to hold, transport and serve hot or cold beverages for up to 4 hours
- One piece, seamless double-wall polyethylene with thick foam insulation
- Sturdy rust proof plastic latches secure lids tightly
- Equipped with a recessed spigot for easy self-serve access
- Stackable for minimized storage space
- Stack interlocking ensures stable stacking during transport and storage
- The universal favourite of caterers

Tea/Coffee Dispensers





# FOOD SERVICE & HOSPITALITY PRODUCTS



## INCREASE TABLE SERVICE EFFICIENCY :

Organize dishes, plates, cups & mugs, glasses, cutlery with Cambro ware washing products & service carts. In addition to enhancing the efficiency of food service, these products also provide safety to these fragile products during handling & automated washing operations.



Cup rack



Glass rack



Plates rack



Flatware rack for cutlery

## DO YOU WANT A ON-SITE KITCHEN...??

Upgrade to the best latest International standards of food storage with Cambro Food Storage Products. Ingredient Bins with scoops. Rust free & easily cleaned / service Camshelving & Camshelving Elements for storage of food ingredients, air tight food boxes etc.



Camshelving



Ingredient Bins



CamSquare airtight food boxes



# FOOD SERVICE & HOSPITALITY PRODUCTS

Provide better table service with the KD Service Carts & Dish Caddies !



## KD SERVICE CARTS :

Versatile body, durable and economically-priced utility cart with rails and shelves to keep contents in place. Additional shelves can be added as an option.



## ADJUSTABLE DISH CADDIES :

Adjustable towers to set up 4 or 6 columns of dishes. Can hold up to 45-60 plates. Store one size dish or a combination of different sizes in a single caddy



## CLEAN & HYGIENE BINS FOR KITCHENS & CANTEENS :

International quality products for systematic waste management in the kitchen and canteen area



Color coded pedal bins for hygienic waste segregation



Color coded wheeled bins for waste segregation



Color coded wheeled bins for waste segregation



## WASTE MANAGEMENT PRODUCTS :

NILKAMAL has come up with state-of-the-art HIGH TECH WASTE BINS. These bins are used by Municipalities, Hotels, Airports, Commercial Complexes, Residential Areas & also public places like parks etc. Salient Features : | Environmental Friendly | Long Lasting | Easy to use & maintain | Safeguards public health | Prevent diseases, safe for workers | Resistant to UV radiation



WASTE BINS - Used in soot disposal



Color Coded Wheeled Bins



Color Coded Free Stand Bins





## FREE STAND LITTER BINS :



Model : **RFLB60L1**  
Capacity : 60 litres approx.



Model : **RFLB80L1**  
Capacity : 80 litres approx.



Model : **RFLB100L1**  
Capacity : 100 litres approx.



Model : **RFLB100L2SWNLID**  
Capacity : 100 litres approx.



Industrial Application



Model : **RFLB50L2** • Capacity : 50 litres approx.



Color Coded Waste Segregation as per industrial practice



Model : **RFLB150L1** • Capacity : 150 litres approx.

Abbreviations : RFLB : Roto Molded Free Stand Litter Bin • SWN : Swinging Lid • L : Litres



**WHEELED BINS :** Used for waste collection for factories, offices and complexes.



Model : **RWB90L1**  
Capacity : 90 litres approx.



Model : **RWB120L1**  
Capacity : 120 litres approx.



Model : **RWB240L1**  
Capacity : 240 litres approx.



Foot Pedal Available (*Optional*)

## COMMUNITY WASTE COLLECTION TOOLS



**COMPACTOR COMPATIBLE WHEELED BINS FROM PLASTIC OMNIUM, FRANCE**



Model : **WB120L1**  
Capacity : 120 litres approx.



Model : **WB240L1**  
Capacity : 240 litres approx.



Model : **WB360L1**  
Capacity : 360 litres approx.



Foot Pedal Available (*Optional*)



Model : **WB660L1**  
Capacity : 660 litres approx.



Model : **WB1100L1**  
Capacity : 1100 litres approx.



Community Application Of Compactor Compatible Bins

Abbreviations : **RWB** : Roto Molded Wheeled Bins • **WB** : Wheeled Bins • **L** : Litres



## ROAD SAFETY PRODUCTS

Welcome to the Road Safety Products from Nilkamal Limited, India's No 1 Organization in Material Handling. These uniquely designed and well engineered barriers, barricades and other traffic movement regulation products facilitate easy handling and are also easy to install or fit. They are manufactured from premium grade UV stabilized virgin polyethylene material. Designed to interlock easily, Nilkamal barricades can readily form a wall. The barriers have been designed to withstand high wind pressure generated by fast moving vehicles and are also more effective, more stable and safer compared to conventional products such as drums, posts and such like used to form temporary barricades. Strips of retro-reflective sheets are also pasted on the barriers to enhance visibility during night.

### PERFORATED BARRICADE FENCES :



Model : **RMBPF20041000**

Outside Dimensions : 2020 (L) x 400 (W) x 1265 (H) mm. approx.

Available Colors : Red & Yellow



Model : **RMBPF21041000**

Outside Dimensions : 2675 (L) x 500 (W) x 1200 (H) mm. approx.

Available Colors : Red , Green & Yellow

### SAFETY BARRICADES (INTERLOCKING & WATER FILLABLE) :



Model : **RMRBDB1003620**

Outside Dimensions :

1000 (L) x 275 (W) x 620 (H) mm. approx.

Available Colors : Red & Yellow



Model : **RMRBDG10035760**

Outside Dimensions :

1000 (L) x 350 (W) x 760 (H) mm. approx.

Available Colors : Red & Yellow



Model : **RMRBDF1003855**

Outside Dimensions :

1060 (L) x 350 (W) x 855 (H) mm. approx.

Available Colors : Red & Yellow



Model : **RMRBDC1004400**

Outside Dimensions :

1125 (L) x 400 (W) x 400 (H) mm. approx.

Available Colors : Red & Yellow

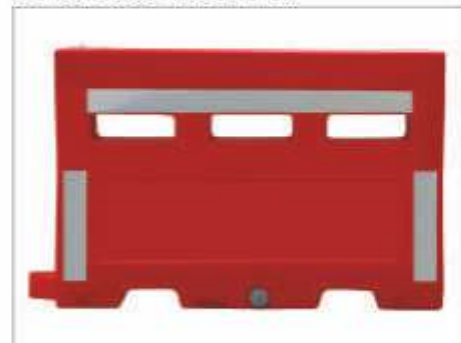


Model : **RMRBDB1306850**

Outside Dimensions :

1325 (L) x 600 (W) x 850 (H) mm. approx.

Available Colors : Red



Model : **RMRBDD15041000**

Outside Dimensions :

1640 (L) x 400 (W) x 1000 (H) mm. approx.

Available Colors : Red & Yellow



### SAFETY BARRICADES (INTERLOCKING & WATER FILLABLE) :



Model : **RMRBDA2160840**

Outside Dimensions : **2100 (L) x 600 (W) x 840 (H) mm. approx.**

Available Colors : **Red & Yellow**



Model : **RMRBDA21601000**

Outside Dimensions : **2100 (L) x 600 (W) x 1000 (H) mm. approx.**

Available Colors : **Red & Yellow**

### ROAD FENCES :



Model : **RMRF18441900**

Outside Dimensions : **1850 (L) x 440 (W) x 1885 (H)**

Available Color : **Black**



### HEXAGONAL SAFETY CONES :



**HEXAGONAL SAFETY CONE (SMALL) :**

Models : **RMHEXDC750**

**RMHEXDC750HW (Heavy Weight)**

Outside Dimensions :

**420 (L) x 370 (W) x 750 (H) mm. approx.**

Available Color : **Red**



**HEXAGONAL SAFETY CONE (BIG) :**

Models : **RMHEXDC1000**

**RMHEXDC1000HW (Heavy Weight)**

Outside Dimensions :

**420 (L) x 370 (W) x 1000 (H) mm. approx.**

Available Color : **Red**

Also Available : **HW (Heavy Weight) Models**

### ROAD LIGHT BARRIERS :



Model : **RMHLS6081275**

Outside Dimensions :

**600 (L) x 80 (W) x 1275 (H) mm. approx.**

Available Color : **Olive Green**



Model : **RMHLS45201310**

Outside Dimensions :

**450 (L) x 195 (W) x 1310 (H) mm. approx.**

Available Color : **Olive Green**





# Nilkamal Limited

MKD33a-00-01-01.11.2013



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