

# Kardex Megamat 650 Vertical Carousel Modules (VCM) 10' 5" W x 4' 3.6" D x 32' 1.2" H - 6 Carrier - Heavy Duty Very Shallow Depth Storage System

Customer Technical Spec Sheet | Model / SKU: Kardex Megamat 650.2.2450.4..6

This customer spec sheet summarizes the configured Kardex Megamat 650 Vertical Carousel Module. The unit is configured as a heavy duty goods-to-person storage system with 6 carriers and an overall size of 10' 5" W x 4' 3.6" D x 32' 1.2" H.

## Configuration Summary

Configured Product Overview	
Series	Megamat 650
Duty Class	Heavy Duty
Depth Configuration	Very Shallow Depth
Number of Carriers	6
Overall Unit Width	10 ft - 5 in. (3175 mm)
Overall Unit Depth	4 ft - 3.7 in. (1311 mm)
Overall Unit Height	32 ft - 1.3 in. (9785 mm)
Carrier Capacity (max)	1433 lbs. (650 kg.) : 127 lbs./ft <sup>2</sup>
Carrier Capacity (avg)	1433 lbs. (650 kg.) : 127 lbs./ft <sup>2</sup>
Average Carrier Payload	1365 lbs. (619 kg.)
Carrier Pitch	in. ( mm)
Carrier Clear Height	19.02 in. (483 mm)
Carrier Clear Width	96.5 in. (2450 mm)
Carrier Clear Depth	16.9 in. (428 mm)
Carrier Surface Clear Depth	16.7 in. (426 mm) due to 2mm deep front lip

## Overall Unit Specifications

Dimensions, weights, load, and installation	
Minimum Room Height for Installation	32 ft - 3.3 in. (9835 mm)
Minimum Unit Clearance in Recess	1.97 in. (50mm)
Overall Depth Note	Excludes 12.6 in. (320 mm) deep Work Counter
Storage Area per Unit	157.9 ft <sup>2</sup> (14.68 m <sup>2</sup> )
Cubic Storage per Unit	107.2 ft <sup>3</sup> (3.04 m <sup>3</sup> )
Right End Frame Weight	2313 lb. (1049 kg)
Left End Frame Weight	1892 lb. (858 kg)
Unit Weight (Empty)	7086 lb. (3214 kg)

<b>Permissible Total Unit Weight</b>	15273 lb. (6928 kg)
<b>Average Floor Load</b>	2.36 lbs. /in. <sup>2</sup> (1664 kg. /m <sup>2</sup> )
<b>Supporting Contact Surface</b>	600cm <sup>2</sup> (see "Layout Diagram") = 60000mm <sup>2</sup>
<b>Configured Surface Pressure</b>	1.133 N/mm <sup>2</sup>
<b>Maximum Imbalance Load</b>	2646 lb. (1200 kg.)
<b>Cycle Speed</b>	4.92 in./sec.

## Power and Controls

### Electrical and control details

<b>Power Supply</b>	3/PE 208V (50/60 Hz)
<b>Rated Operating Current</b>	22.9 A
<b>Fuse Protection</b>	30 A t
<b>Motor Power</b>	5.2 HP ; 3.8 kW
<b>Power Consumption, max.</b>	8.25 kVA
<b>Control Generation</b>	B&R X20 -- TIC (Total Intelligence Concept)
<b>Controller Location</b>	Right-Hand End Frame
<b>E-Stop</b>	E-Stop Location: (1) per Side Panel (2 Total)
<b>Controller</b>	OPTIC 12
<b>Virtual Site Control License</b>	Yes
<b>Not Included</b>	Communication Cable - Cat5 or Cat6 cable

Network Interface, Host communication ILA/T3, Weight Management, User Management, Web Browser access and Ergonomics Interface for fire detection (alarm system and warning sound provided by customer when applicable)

## Access Opening Specifications

### Operator access area

<b>Work Counter</b>	Table Height: 1000 mm (39.37 in.)
<b>Work Counter Details</b>	Stainless Steel (w/colored cover) / Fixed Work Counter; Max. Load 150 kg.
<b>Door Type</b>	Manual Door
<b>Door Details</b>	Adds 320mm (12.6 in.) to overall unit depth
<b>Access Included</b>	Included: Confirmation Bar (under work counter)
<b>Navigator / Interface</b>	without Legacy Interface
<b>Front Light</b>	Front Light: LED Lamps

## Construction and Finish

### Construction materials and finish colors

<b>Material</b>	Steel
<b>Core Material</b>	Galvanized or ESD Galvanized Steel
<b>Panel Color</b>	RAL 7035 LIGHT GREY
<b>Door / Under Table Color</b>	RAL 230/60/15 Silver Fir Blue
<b>Corner Profiles Color</b>	RAL 7035 Light Grey
<b>Cover Above Access Color</b>	RAL 9016 Traffic White
<b>Access Side Covers Color</b>	RAL 7016 Anthracite Grey

## Thermal and Operating Data

### Heat dissipation information

<b>Heat Dissipation Control Cabinet</b>	130W
<b>Heat Dissipation Brake Resistor</b>	1000W (50% brake mode) -> 500W
<b>Heat Dissipation Motor</b>	760W (3.8kW motor, 20%)
<b>Complete Heat Dissipation / Machine</b>	1390W

## Carrier Details

### Carrier configuration

<b>Carriers per Unit</b>	(6 ) Multipurpose Carriers
<b>Carrier Pitch</b>	in. ( mm)
<b>Carrier Clear Height</b>	19.02 in. (483 mm)
<b>Carrier Includes</b>	0.31 in. (8 mm) tall front lip
<b>Carrier Clear Width</b>	96.5 in. (2450 mm)
<b>Carrier Clear Depth</b>	16.9 in. (428 mm)
<b>Carrier Surface Clear Depth</b>	16.7 in. (426 mm) due to 2mm deep front lip
<b>Carrier Capacity (max)</b>	1433 lbs. (650 kg.) : 127 lbs./ft <sup>2</sup>
<b>Carrier Capacity (avg)</b>	1433 lbs. (650 kg.) : 127 lbs./ft <sup>2</sup>
<b>Average Carrier Payload</b>	1365 lbs. (619 kg.)
<b>Maximum Number of Cycles</b>	504622.5 - (Based on average carrier payload usage at 50% = 682 lbs. (309.5 kg.))

## Configured Shelf Details

8 of total 6 Carriers include the following shelf configurations:

<b>Shelf Configuration 1</b>	Qty 8 - (1) Non-Reinforced Shelf and (6) Supports [8.6 in.▼, 8.68 in.▲] Clear depth: 16.73
<b>Capacity per Level 1</b>	Capacity Per Level: 683 lb (max) : 61.2 lb/ft <sup>2</sup> (max)

See capacity /shelf level below, as capacity is downrated due to weight of shelf in carrier