

# Kardex Megamat 350 Vertical Carousel Modules (VCM) 12' 8.6" W x 5' 5.8" D x 32' 5.2" H - 36 Carrier - Medium Duty Storage System

Customer Technical Spec Sheet | Model / SKU: Kardex Megamat 350.2.3250.6.495.36

This customer spec sheet summarizes the configured Kardex Megamat 350 Vertical Carousel Module. The unit is configured as a medium duty goods-to-person storage system with 36 carriers and an overall size of 12' 8.6" W x 5' 5.8" D x 32' 5.2" H.

## Configuration Summary

Configured Product Overview	
<b>Series</b>	Megamat 350
<b>Duty Class</b>	Medium Duty
<b>Depth Configuration</b>	Standard Depth
<b>Number of Carriers</b>	36
<b>Overall Unit Width</b>	12 ft - 8.6 in. (3875 mm)
<b>Overall Unit Depth</b>	5 ft - 5.8 in. (1671 mm)
<b>Overall Unit Height</b>	32 ft - 5.2 in. (9885 mm)
<b>Carrier Capacity (max)</b>	772 lbs. (350 kg.) : 35.1 lbs./ft <sup>2</sup>
<b>Carrier Capacity (avg)</b>	507 lbs. (230 kg.) : 23.1 lbs./ft <sup>2</sup>
<b>Average Carrier Payload</b>	492 lbs. (223 kg.)
<b>Carrier Pitch</b>	19.5 in. (495 mm)
<b>Carrier Clear Height</b>	17.52 in. (445 mm)
<b>Carrier Clear Width</b>	128 in. (3250 mm)
<b>Carrier Clear Depth</b>	24.7 in. (628 mm)
<b>Carrier Surface Clear Depth</b>	24.6 in. (626 mm) due to 2mm deep front lip

## Overall Unit Specifications

Dimensions, weights, load, and installation	
<b>Minimum Room Height for Installation</b>	32 ft - 7.2 in. (9935 mm)
<b>Minimum Unit Clearance in Recess</b>	1.97 in. (50mm)
<b>Overall Depth Note</b>	Excludes 12.6 in. (320 mm) deep Work Counter
<b>Storage Area per Unit</b>	944.2 ft <sup>2</sup> (87.76 m <sup>2</sup> )
<b>Cubic Storage per Unit</b>	1153.8 ft <sup>3</sup> (32.7 m <sup>3</sup> )
<b>Right End Frame Weight</b>	3494 lb. (1585 kg)
<b>Left End Frame Weight</b>	2857 lb. (1296 kg)
<b>Unit Weight (Empty)</b>	15820 lb. (7176 kg)

<b>Permissible Total Unit Weight</b>	33490 lb. (15191 kg)
<b>Average Floor Load</b>	3.33 lbs. /in. <sup>2</sup> (2346 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>	2.484 N/mm <sup>2</sup>
<b>Maximum Imbalance Load</b>	2646 lb. (1200 kg.)
<b>Cycle Speed</b>	4.92 in./sec.
<b>Access Time</b>	35.67 s (1/4 Revolution)

## Power and Controls

### Electrical and control details

<b>Power Supply</b>	3/PE 208V (50/60 Hz)
<b>Rated Operating Current</b>	13.3 A
<b>Fuse Protection</b>	20 A t
<b>Motor Power</b>	3 HP ; 2.2 kW
<b>Power Consumption, max.</b>	4.8 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>	121W
<b>Heat Dissipation Brake Resistor</b>	600W (50% brake mode) -> 300W
<b>Heat Dissipation Motor</b>	400W (2.2kW motor, 20%)
<b>Complete Heat Dissipation / Machine</b>	861W

## Carrier Details

### Carrier configuration

<b>Carriers per Unit</b>	(36) Multipurpose Carriers
<b>Carrier Pitch</b>	19.5 in. (495 mm)
<b>Carrier Clear Height</b>	17.52 in. (445 mm)
<b>Carrier Includes</b>	0.31 in. (8 mm) tall front lip
<b>Carrier Clear Width</b>	128 in. (3250 mm)
<b>Carrier Clear Depth</b>	24.7 in. (628 mm)
<b>Carrier Surface Clear Depth</b>	24.6 in. (626 mm) due to 2mm deep front lip
<b>Carrier Capacity (max)</b>	772 lbs. (350 kg.) : 35.1 lbs./ft <sup>2</sup>
<b>Carrier Capacity (avg)</b>	507 lbs. (230 kg.) : 23.1 lbs./ft <sup>2</sup>
<b>Average Carrier Payload</b>	492 lbs. (223 kg.)
<b>Maximum Number of Cycles</b>	582760 - (Based on average carrier payload usage at 50% = 246 lbs. (111.5 kg.))

## Configured Shelf Details

7 of total 36 Carriers include the following shelf configurations:

<b>Shelf Configuration 1</b>	Qty 7 - (1) Non-Reinforced Shelf and (5) Supports [8.52 in.▼, 8.56 in.▲] Clear depth: 24.61
<b>Capacity per Level 1</b>	Capacity Per Level: 344 lb (max) / 211.8 lb (avg) : 15.6 lb/ft <sup>2</sup> (max) ; 9.6 lb/ft <sup>2</sup> (avg)

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