

Kardex Megamat 350 Vertical Carousel Modules (VCM) 10' 1.1" W x 4' 9.9" D x 14' 3.7" H - 14 Carrier - Medium Duty Shallow Depth Storage System

Customer Technical Spec Sheet | Model / SKU: Kardex Megamat 350.2.2450.5.495.14

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 14 carriers and an overall size of 10' 1.1" W x 4' 9.9" D x 14' 3.7" H.

Configuration Summary

Configured Product Overview	
Series	Megamat 350
Duty Class	Medium Duty
Depth Configuration	Shallow Depth
Number of Carriers	14
Overall Unit Width	10 ft - 1.1 in. (3075 mm)
Overall Unit Depth	4 ft - 10 in. (1471 mm)
Overall Unit Height	14 ft - 3.7 in. (4360 mm)
Carrier Capacity (max)	772 lbs. (350 kg.) : 55.4 lbs./ft ²
Carrier Capacity (avg)	772 lbs. (350 kg.) : 55.4 lbs./ft ²
Average Carrier Payload	745 lbs. (338 kg.)
Carrier Pitch	19.5 in. (495 mm)
Carrier Clear Height	17.52 in. (445 mm)
Carrier Clear Width	96.5 in. (2450 mm)
Carrier Clear Depth	20.8 in. (528 mm)
Carrier Surface Clear Depth	20.7 in. (526 mm) due to 2mm deep front lip

Overall Unit Specifications

Dimensions, weights, load, and installation	
Minimum Room Height for Installation	14 ft - 5.7 in. (4410 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	292.3 ft ² (27.17 m ²)
Cubic Storage per Unit	284.4 ft ³ (8.06 m ³)
Right End Frame Weight	1942 lb. (881 kg)
Left End Frame Weight	1590 lb. (721 kg)
Unit Weight (Empty)	6623 lb. (3004 kg)

Permissible Total Unit Weight	17048 lb. (7733 kg)
Average Floor Load	2.43 lbs. /in. ² (1710 kg. /m ²)
Supporting Contact Surface	600cm ² (see "Layout Diagram") = 60000mm ²
Configured Surface Pressure	1.264 N/mm ²
Maximum Imbalance Load	2646 lb. (1200 kg.)
Cycle Speed	4.92 in./sec.
Access Time	13.87 s (1/4 Revolution)

Power and Controls

Electrical and control details

Power Supply	3/PE 208V (50/60 Hz)
Rated Operating Current	13.3 A
Fuse Protection	20 A t
Motor Power	3 HP ; 2.2 kW
Power Consumption, max.	4.8 kVA
Control Generation	B&R X20 -- TIC (Total Intelligence Concept)
Controller Location	Right-Hand End Frame
E-Stop	E-Stop Location: (1) per Side Panel (2 Total)
Controller	OPTIC 12
Virtual Site Control License	Yes
Not Included	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

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

Construction and Finish

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

Thermal and Operating Data

Heat dissipation information	
Heat Dissipation Control Cabinet	121W
Heat Dissipation Brake Resistor	600W (50% brake mode) -> 300W
Heat Dissipation Motor	400W (2.2kW motor, 20%)
Complete Heat Dissipation / Machine	861W

Carrier Details

Carrier configuration	
Carriers per Unit	(14) Multipurpose Carriers
Carrier Pitch	19.5 in. (495 mm)
Carrier Clear Height	17.52 in. (445 mm)
Carrier Includes	0.31 in. (8 mm) tall front lip
Carrier Clear Width	96.5 in. (2450 mm)
Carrier Clear Depth	20.8 in. (528 mm)
Carrier Surface Clear Depth	20.7 in. (526 mm) due to 2mm deep front lip
Carrier Capacity (max)	772 lbs. (350 kg.) : 55.4 lbs./ft²
Carrier Capacity (avg)	772 lbs. (350 kg.) : 55.4 lbs./ft²
Average Carrier Payload	745 lbs. (338 kg.)
Maximum Number of Cycles	715360 - (Based on average carrier payload usage at 50% = 373 lbs. (169 kg.))

Configured Shelf Details

7 of total 14 Carriers include the following shelf configurations:	
Shelf Configuration 1	Qty 7 - (1) Non-Reinforced Shelf and (4) Supports [8.52 in.▼, 8.56 in.▲] Clear depth: 20.67
Capacity per Level 1	Capacity Per Level: 359 lb (max) : 25.8 lb/ft² (max)

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