

Kardex Megamat 180 Vertical Carousel Modules (VCM) 10' 1.1" W x 5' 4.2" D x 12' 11.9" H - 16 Carrier - Light Duty Storage System

Customer-facing technical spec sheet template based on Kardex-provided workbook data

Kardex Megamat Vertical Carousel Modules (VCM) are automated goods-to-person storage systems designed to store and retrieve parts, bins, cartons, and other organized inventory while using vertical space more efficiently. This template is structured for customer use on product pages and highlights the detailed technical information provided in the Kardex workbook, without internal pricing.

Product Overview

Product Series	Kardex Megamat 180
Model	Kardex Megamat 180.2.2450.6.381.16
Duty Class	Light Duty
Storage Type	Vertical Carousel System
Number of Carriers	16
Carrier Pitch	15"
Maximum Load per Carrier	396 lbs. (180 kg.)
Average Carrier Payload	368 lbs. (167 kg.)
Carrier Clear Height	13.35" (339 mm)
Carrier Clear Width	96.5" (2450 mm)
Carrier Surface Clear Depth	24.645"
Material	Steel
Core Material	Galvanized or ESD Galvanized Steel
Color/Finish	Light Gray

Overall Unit and Installation Data

Overall Unit Width	121.1"
Overall Unit Depth	64.2"
Overall Unit Height	12' 11.9"
Minimum Room Height for Installation	157.9"
Minimum Unit Clearance in Recess	1.97" left, right, and rear
Storage Area Per Unit	397.3 sq. ft.
Cubic Storage Per Unit	294.5 cu. ft.
Unit Weight Empty	5791 lbs.
Permissible Total Unit Weight	11,687 lbs.
Average Floor Load Fully Loaded	1.5 lbs. per sq. in.
Supporting Contact Surface	11052 mm ²
Configured Surface Pressure	1.05 N/mm ²
Maximum Imbalance Load	198 lbs. (90 kg.)
Cycle Speed	4.92 in./sec.

Power and Controls

Power Supply	3/PE 208V (50/60 Hz)
Motor Power	1.5 HP ; 1.1 kW

Control Generation	B&R; X20 - TIC (Total Intelligence Concept)
Controller Location	Right-Hand End Frame
Controller	OPTIC 12
Virtual Site Control Software License	Yes
Not Included	Communication Cable - Cat5 or Cat6 cable

Heat Dissipation and Finish

Heat Dissipation Control Cabinet	112W
Heat Dissipation Brake Resistor	500W (50% brake mode) -> 250W
Heat Dissipation Motor	220W (2.2kW motor, 20%)
Complete Heat Dissipation / Machine	582W
Color Panels	RAL 7035 Light Grey
Door / Under Table Cover Color	RAL 230/60/15 Silver Fir Blue

Access Opening Specifications

Work Counter (Table)	Table Height: 1000 mm (39.37 in.)
Door Type	Manual Door
Includes	Display LED Navigator without Legacy Interface
Additional Access Opening	N/A

Carrier and Shelf Configuration

Carrier Type	(16) Multipurpose Carriers
Configured Shelf Package	8 of total 16 carriers include (1) non-reinforced shelf and (3) supports
Shelf Clearances	[6.44 in. down, 6.48 in. up]
Shelf Configuration Clear Depth	24.61"
Capacity Per Level	170 lb max
Maximum Number of Cycles	713,280
Payload Basis	Based on average carrier payload usage at 50% = 184 lbs. (83.5 kg.)
Depth Reducers	No selection
Slip-on Lips	No selection
Distance Rails	No distance rail selected

Template note: This PDF is intended as a customer-facing technical sheet. Internal cost has been removed. Values shown are drawn from the Kardex workbook and should be refreshed per product when reused.