

Kardex Shuttle VLM Model	: SHUTTLE-01-500-3650x864x6750							
Quantity of Units	: 1							
Overall Unit Height	: 6750 mm	22 feet, 1.75 in.						
Required Room Height	: 6770 mm	22 feet, 2.52 in.						
The required room height (unit height + 20mm /0.79") is the absolute minimum measure. Possible floor / ceiling unevenness and slope must be considered therein.								
Overall Unit Width	: 3980 mm	156.69 in.						
Unit Depth	: 3073 mm	120.98 in.						
Add Extraction Table Depth	: n/a mm							
Overall Unit Depth	: 3073 mm							
1st Front MASTER access - table height (TH1)	: Floor @ 0 mm = table height 833 mm	Floor @ 0 in. = table height 32.8 in.						
2nd Front Access - table height (TH2)	: N/A							
Add Rear Access - table height (TH3)	: N/A							
Unit Weight without Trays	: 3317 kg. (7313 lbs.)	(Per unit)	TOTAL UNIT LOAD (Unit Capacity): 70000 kg. (154322 lbs.)					
Dead Weight of configured Trays	: 5236 kg. (11543 lbs.)	(Per Unit)	Unit Capacity minus Dead Weight of configured Trays: 64764 kg. (142779 lbs.)					
Unit Weight with Configured Trays (empty)	: 8553 kg. (18856 lbs.)	(Per Unit)	Payload: Max. Tray Capacity x Qty. of trays configured/unit: 29920 kg. (65962 lbs.)					
Total unit weight (w/configured Trays loaded)	: 38473 kg. (84818 lbs.)	(Maximum per Unit)	Gross Load (Payload + dead weight of trays)/unit as configured: 35156 kg. (77505 lbs.)					
Average Qty. Trays / Unit	Tray Type	Clear Width x Depth	Maximum Load/Tray kg. lbs.	Capacity/Sq.Ft. lbs.	Access Height / Lower Edge of tray bottom TH1 mm + mm = (in.)	Retrieval position /Upper edge of tray bottom TH1 mm + mm = (in.)		
0	Light	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	833 + 21 (33.62 in.)	833 + 22.5 (33.68 in.)	
0	Medium	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)	
0	Strong	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	833 + 21 (33.62 in.)	833 + 23.5 (33.72 in.)	
0	66-1-Medium-100	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)	
0	75-2-Medium-100	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)	
0	75-3-Medium-100	3650 mm x 863.6 mm	143.7 in. x 34 in.	390	860	25.4	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
68	100-3-Medium-100	3650 mm x 863.6 mm	143.7 in. x 34 in.	440	970	28.6	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
0	100-3-Medium-110	3650 mm x 863.6 mm	143.7 in. x 34 in.	500	1102	32.5	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
0	100-2-Medium-100	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
0	100-2-Medium-110	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
0	100-2-Medium-130	3650 mm x 863.6 mm	143.7 in. x 34 in.	-	-	-	833 + 21 (33.62 in.)	833 + 23 (33.7 in.)
0	121-4-Medium-100	n/a x 863.6 mm	n/a x 34 in.	-	-	-	833 + 66 (35.39 in.)	833 + 68 (35.47 in.)
0	121-4-Medium-110	n/a x 863.6 mm	n/a x 34 in.	-	-	-	833 + 66 (35.39 in.)	833 + 68 (35.47 in.)
0	121-4-Medium-120	n/a x 863.6 mm	n/a x 34 in.	-	-	-	833 + 66 (35.39 in.)	833 + 68 (35.47 in.)
0	121-4-Medium-130	n/a x 863.6 mm	n/a x 34 in.	-	-	-	833 + 66 (35.39 in.)	833 + 68 (35.47 in.)
Minimum Tray Spacing	: 125 mm / 4.92 in.	on 25 mm / 0.98 in. increments		Depends on unit drive and Tray Type selection				
Maximum Product Height	: 727 mm / 28.62 in.				Depends on Tray Type selection			
Clearance Required Above Product	: 20 mm / 0.78 in.							
Storage Surface Area Net Offered / Unit	: 214.35	Avg. Sq. Meters of Surface Area	2.307	Avg. Sq. Ft. of Surface Area				
Max. Useable Cube w/Trays installed Net / Unit	: 27.21	Approx. Cubic Meter	961	Approx. Cubic Feet				
Useable Cube @ 80% Tray Utilization /Unit	: 21.77	Approx. Cubic Meter	769	Approx. Cubic Feet				
Vertical Lifting Speed (@ 100% load)	: 57.61	meters/min.	189.00	ft./min.				
Vertical Lifting Speed if Extractor is w/o a Tray	: 90.01	meters/min.	295.30	ft./min.				
Horizontal Extractor (Storage/Removal) Speed	: 0.60	meters/sec.	23.62	in./sec.				
Pick Performance (Average Qty.)	: 94	Trays/hour (does not consider operator picking time)						
		Complete Cycle (Storage + Retrieval)		Single Cycle (Tray Retrieval only)				
Average Access Time	: 38	Seconds		20 Seconds				
Maximum Access Time	: 45	Seconds		23 Seconds				
Calculation of access times is based on: 1) Speed adjustment lift (vertical) at 100%; extractor (horizontal) at 100%. Note: 100% extractor speed is not recommended for some storage goods. All delivered units have a pre-defined setting of 70%. 2) Shutter door is set to "only closed during lift travel," i.e. tray positioned in access opening is in "fingerhold." Note: This setting is only possible with units equipped with 1 access opening. With the setting "always closed," the access times will increase by ~6 seconds. 3) Options chosen on POF: automatic extraction or pneumatic tray locking will affect times outlined above.				4) If "Speed and Control" Functions, including weight management, will not be used the 'Complete Cycle' times outlined can be reduced by 5 seconds ▼				
For very tall units which contain a large number of trays, the average and maximum access times can increase as a result of the required internal computing time of the controller during the return of stock. With time-critical units (e.g. high performance order picking units or robot handling with cycle times) a prior consultation with the factory is recommended.								
Power	: 480 / 3 / 60	(Volts / Phase / Hz)						
Maximum Power Consumption	: 15 kVA							
Connection Voltage - Recommended mains fuse	: 30 Amp Per Machine							
Connection Voltage - Mains current (FLA)	: 20.9 Amp Per Machine							
Typical Energy Consumption / STORAGE (5 cycles/hr)	: 0.74 KWh							
Typical Energy Consumption / ORDER PICKING (20 cycles/hr)	: 1.16 KWh							
Included with this configured Shuttle								
Color Panels and Load Profiles	: RAL 7035 Light Grey							
Color Shutter Door, Cover Under Access Opening	: RAL 230/60/15 Silver Fir Blue							
Color Access Opening Inside: cover and floor	: RAL 7035 Light Grey							
Color Shelf Rail Panels	: RAL 7035 Light Grey							
Side Service Panels	: 1 of 1 units include: One side Swing / one side Fixed (Standard Maintenance and Side Panels)							
Confirmed : Customer has no lateral access to the unit								
External Unit Support	: Self-supported							
External supports are Only for stand-alone units (not for units positioned side by side)!								
Tooth Belt Drive	: Yes							
Safety Shutter Door System	: Yes, required							
Overhead Lighting In Access	: LED Lighting 60 Hz							
Control Type	: TIC Unit Controls							
Storage Management System	: OPTIC							
Operator Panel / Mounting Location	: OPTIC / Outside (Right)/access							
Data interface / USB Port	: Yes							
Universal 15 A UL power socket (NEMA 5/15 socket)	: No							
Secure Site Control	: Yes, Virtual Site Control - without license software license required, and not selected at this time							
Hardware Handshake:	: No							
Access Ready Lights	: N/A							
Confirmation Bar	: Yes							
Display LED Navigator	: Yes (without Legacy Interface) 1st Front Access Opening							
Light Pointer	: Yes LED SPOT, 40 mm dia. 1st Front Access Opening							
Position Indicator Light Bar	: No							
Transport Cart	: No							
Crane and Support Frame	: No							
Extraction Table	: No							
Vertical Photocells to Monitor Extractor Column	: Yes							
ESD Equipped Trays	: No							
Height Measurement system MLG2	: Yes							
Not included:	: Communication Cable - Cat5 or Cat6 cable							