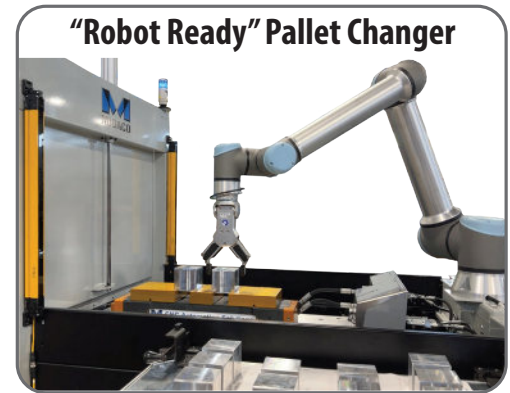




Pallet Changer Model Guide for **Haas** F1 Team **Machines** OFFICIAL MACHINE TOOL



Pallet Changers for **NEW** or **EXISTING**
HAAS Vertical Machining Centers

MIDACO Pallet Changers and Automatic Door Openers increase productivity and decrease down time. KEEP THE SPINDLE RUNNING!

Pallet Changer Model Guide for HAAS Machines



Series A16SD

ADT-1SD fits: DT-1
ADM-1SD fits: DM-1



See also: Manual M2216FL*

ADT-2SD fits: DT-2
ADM-2SD fits: DM-2



See also: Manual M2216FL*

A2216SD fits: MM2, SMM2, VF-1 & VF-1YT
A2416SD fits: DC-1
(Automatic N/A for MM or SMM)



See also Manuals:
M1614FL* for MM & SMM
M2216FL* for DC-1, VF-1, MM2 & SMM2
M2020FL* for VF-1YT



Series A30SD

A3016SD fits:
VF-2
VF-2SS
DT-3
DM-3



See also: Manual M3016FL*

A3020SD fits:
VF-2YT
VF-2SSYT
VM-2



See also: Manual M3020FL*



Series A40SD

A4020SD fits:
VF-3
VF-3SS
DC-2



See also: Manual M4020FL*

A4025SD fits:
VF-3YT & VF-3YT/50
VF-3SSYT
VM-3



See also: Manual M4025FL*



Series AS50SD

AS5020SD fits:
VF-4
VF-4SS



See also: Manual M5020FL*

AS5025SD fits:
VF-5 & VF-5/50
VF-5SS
VR-5



See also: Manual M5025FL*



Series A60SD

A6025SD fits:
VF-5XT & VF-5/50XT



See also: Manual M6025FL*

A6432SD fits:
VF-6 & VF-6/50
VF-6SS
VM-6



Manual N/A

A6440SD fits:
VF-8 & VF-8/50
VR-8



Manual N/A



Series A80SD

A8432SD fits:
VF-7 & VF-7/50



Manual N/A

A8440SD fits:
VF-9 & VF-9/50
VR-9



Manual N/A

A15032SD fits:
VF-12 & VF-12/50

A15040SD fits:
VF-14 & VF-14/50
VR-14



Manual N/A



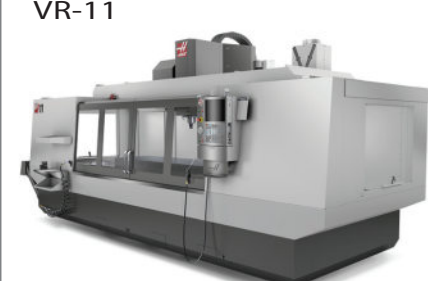
Series A120SD & A150SD

A12030SD fits:
VF-10 & VF-10/50

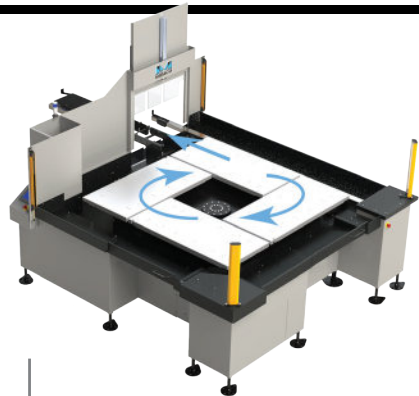


Manual N/A

A12040SD fits:
VF-11 & VF-11/50
VR-11

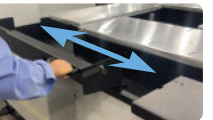


Manual N/A



Automatic 4-Pallet Pool

Available in XY pallet sizes of 28"x15" up to 50"x24"



- 4 pallets.
- 1 shuttle with 360° rotation.
- 1 cast iron receiver.
- 2 loading access stations.
- 3-sided CE Light Curtain is standard.
- NO overhead obstruction for crane loading.



"Robot Ready"

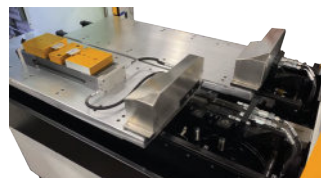
Available for Automatic Pallet Changers series A16SD through A60SD

- Automatic Pallet Changer
 - Robot/Cobot Mount
 - Hydraulic Docking System
- (does not include robot or vises, Light Curtain and Side Carts are additional options)

Additional Midaco Products for Increased Productivity and Efficiency



- AutoDoor Openers are available for Single and Double doors on VMCs, UMCs and Lathes.



- Hydraulic Docking System for automated vises. Stays charged on the pallet while in the VMC without needing hoses.

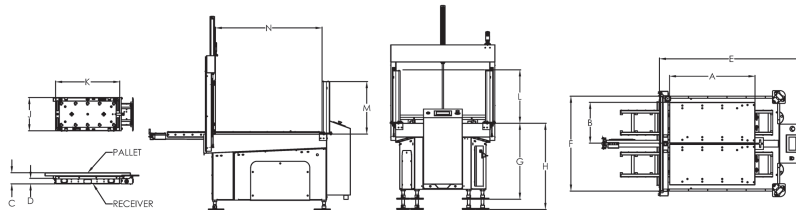


- Industrial CNC Vacuums for Chips, Oil and Coolant Extraction & Liquid Reintegration.

*All Manual Pallet Changers may require a Transfer Bridge depending on position of VMC control panel. See back of brochure for details.

Automatic Pallet Changer Specifications

Note: Diagram and image shown with optional Light Curtain



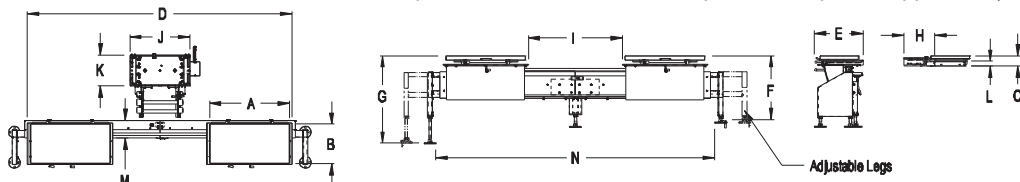
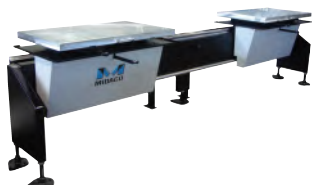
DUAL systems available with one shuttle on each side of VMC with total of 4... 6... or 8 pallets.

Automatic	A16SD	A30SD	A40SD	AS40SD	AS50SD	A50SD	A60SD	A80SD	A120SD	A150SD
Specifications	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm
Clamping Force*	4500	2041.2	5200	2358.7	5200	2358.7	7500	3401.9	7500	3401.9
Receiver Weight	95	43.1	243	110.2	243	110.2	243	110.2	594	269.4
Pallet Thickness	1.0	25.4	1.5	38.1	1.5	38.1	2.0	50.8	2.0	50.8
Pallet Load Cap**	250-500	113-227	1000†	454	1000†	454	2000	907	2000	907
A (Pallet X Dim)	22-27	559-686	30	762	40	1016	45	1143	50	1270
B (Pallet Y Dim)	14-15	356-381	15.5-19	394-483	19-24	483-610	24	609.6	19-24	483-610
C	4.1	104.9	5.2	131.3	5.2	131.3	5.7	144	5.7	144
D	2.5	63.5	2.6	65	2.6	65	2.6	65	3.8	95.3
E	45	1143.0	54.5	1384.3	68	1727.2	74.8	1899.9	78	1981.2
F	35.2	894.1	45	1143.0	45	1143.0	54.2	1376.7	57	1447.8
G (Min Height)	34.8	883.9	38	965.2	38	965.2	38	965.2	38	965.2
H (Max Height)	44.8	1137.9	49	1244.6	49	1244.6	49	1244.6	52	1320.8
J (Receiver)	13	330.2	15.5	393.7	15.5	393.7	15.5	393.7	19.5	495.3
K (Receiver)	18	457.2	30	762	30	762	30	762	50	1270
L (Door Opening)	16	406.4	20	508	20	508	20	508	28	711.2
M (LC Height)	24	621	24	621	24	621	24	621	24	621
N (LC Opening)	30-36	769-922	39.9	1014	49.9	1269	59.9	1522	58.9	1497

*At 100PSI (6.9 bar) **At 120PSI (8.2 bar) with weight evenly distributed † Optional 2000 lb (909kg) pallet load capacity with weight evenly distributed Patented. Specifications subject to change without notice.

Manual Pallet Changer Specifications

(Manual Pallet Changer may require a Transfer Bridge depending on position of VMC control panel. Contact Midaco for quote on a specific application)



Manual Series	M10FL	M20FL	M30FL	M40FL	M50FL	M60FL
Specifications	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm
Clamping Force*	4200	1906.8	4200	1906.8	5200	2360.8
Receiver Weight	80	36.3	80	36.3	243	110.3
Pallet Weight	***	***	***	***	***	***
Pallet Thickness	1	25.4	1	25.4	1.5	38.1
Pallet Load Cap**	300	136.2	300	136.2	1000†	454
A (Pallet X Dim)	16	406.4	20-22	508-559	30	762
B (Pallet Y Dim)	14	355.6	16-20	406-508	20-25	508-635
C	4.12	104.6	4.12	104.6	5.17	131.3
D	80	2032.0	80	2032.0	109	2768.6
E	20	508.0	20-23.5	508-597	25	635.0
F (Min Height)	29	736.6	29	736.6	34.5	876.3
G (Max Height)	39	990.6	39	990.6	44	1117.6
H (this is VMC Specific)	-	-	-	-	-	-
I	30	762.0	30	762.0	39	990.6
J (Receiver)	14	355.6	14	355.6	30	762.0
K (Receiver)	13	330.2	13	330.2	15.5	393.7
L	2.5	63.5	2.5	63.5	2.56	65.0
M	6.5	165.1	6.5-8.5	165-215	10.2	259.08
N (Adjustable Min)	75	1905	75	1905	104	2641.6

*At 100PSI (6.9 bar) **At 120PSI (8.2 bar) with weight evenly distributed on pallet. † Optional 2000 lb (909kg) Pallet Load Capacity Patented. Specifications subject to change without notice.

Shown without Transfer Bridge



Shown with Transfer Bridge



MIDACO pallet systems are designed for machines with stationary guarding. Some machines require options or customization. Contact your sales representative to confirm model and specifications for all applications.



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