



# Pallet Changer Model Guide for HAAS Machines



**MIDACO** has Pallet Changers and Automatic Door Openers for HAAS machining centers. Increase productivity and decrease down time with a MIDACO. **KEEP THE SPINDLE RUNNING!**

# MIDACO 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



Manual N/A

**A2216SD fits:**  
Mini Mill 2 & Super MM 2  
VF-1 & VF-1YT



See also:  
Manual M2216FL\* for VF-1, MM2 & SMM2  
Manual M2020FL\* for VF-1YT



## Series A30SD

**A3016SD fits:**  
VF-2  
VF-2SS



See also: Manual M3016FL\*

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



See also: Manual M3020FL\*



## Series A40SD

**A4020SD fits:**  
VF-3  
VF-3SS



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



See also: Manual M5025FL\*



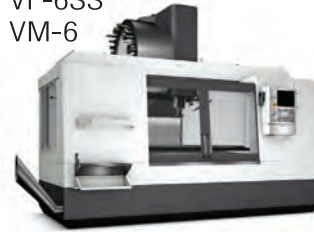
## Series A60SD

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



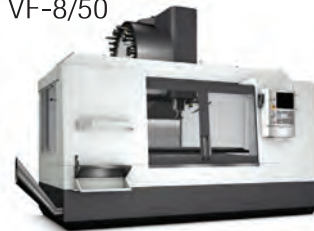
See also: Manual M6025FL\*

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



See also: Manual M6030FL\*

**A6440SD fits:**  
VF-8  
VF-8/50



Manual N/A



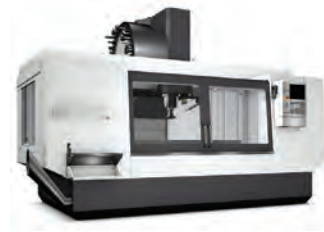
## Series A80SD

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



Manual N/A

**A8440SD fits:**  
VF-9  
VF-9/50

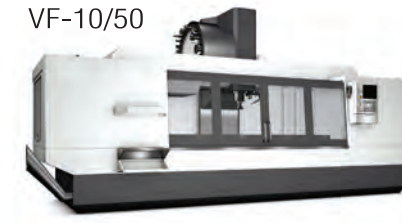


Manual N/A



## Series A120SD & A150SD

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



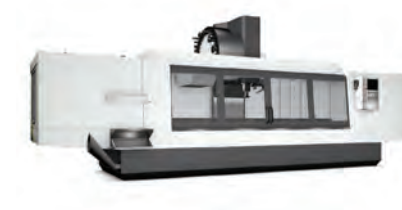
Manual N/A

**A12040SD fits:**  
VF-11  
VF-11/50



Manual N/A

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



Manual N/A



## Custom M3020FL

For EC-1600



**Manual Pallet Changers\* are available in sizes from 16" x 14" to 72" x 30" or contact us for custom application.**

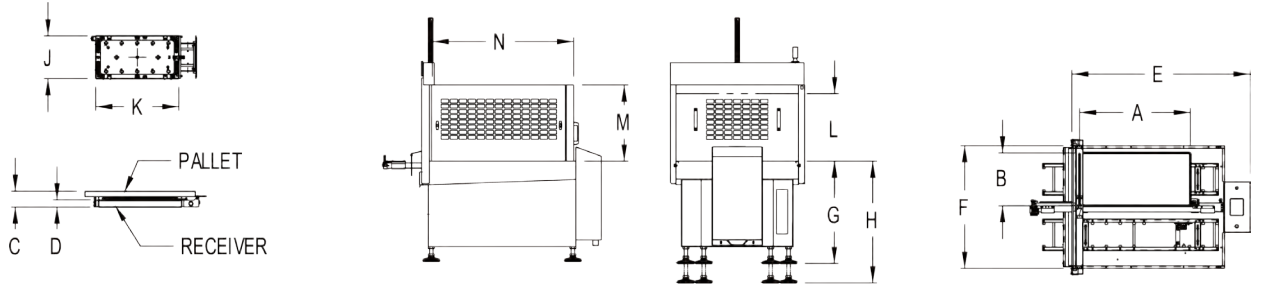
\*Manual Pallet Changer may require a Transfer Bridge depending on position of VMC control panel. Contact Midaco for quote.



**Automatic Door Openers are available for Single and Double doors on Mills, Lathes and VMCs**

# Automatic Pallet Changer Specifications

Note: Diagram shown with CE guarding

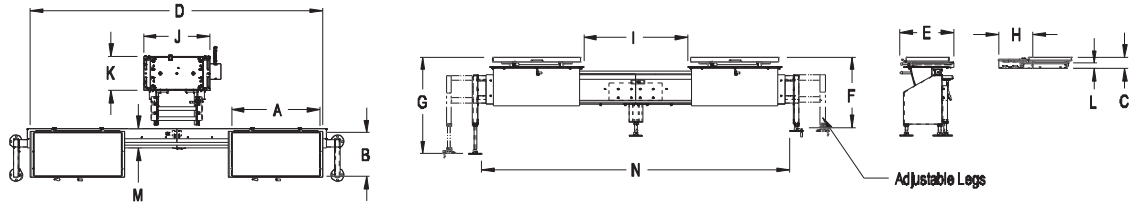
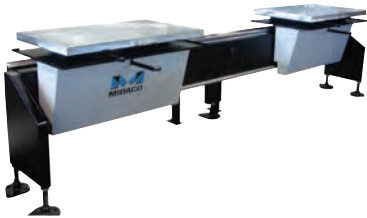


Automatic Series	A16SD		A30SD		A40SD		AS50SD		A60SD		A80SD		A120SD		A150SD	
Specifications	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm
Clamping Force*	4500	2043	5200	2360.8	5200	2360.8	7500	3405.0	15400	6991.6	20500	9307.0	20500	9307.0	20500	9307.0
Receiver Weight	95	43.1	243	110.3	243	110.3	243	110.3	594	269.7	1539	698.7	1400	635.6	1400	635.6
Pallet Thickness	1-1.25	25.4-31.75	1.5	38.1	1.5	38.1	2	50.8	2	50.8	2.5	63.5	2.5	63.5	2.5	63.5
Pallet Load Cap**	500	227	1000 †	454	1000 †	454	2000	908	4000	1816	8000	3632	8000	3632	8000	3632
A (Pallet X Dim)	22-28	559-711	30	762	40	1016	50	1270	60-64	524-1626	80-84	332-2134	120	3048	150	3810
B (Pallet Y Dim)	14-15	356-381	15.5-19	394-483	19-24	483-610	19-24	483-610	24-39	610-991	29-39	737-991	29-39	737-991	31-49	787-1245
C	4.13-4.38	104.9-111.3	5.17	131.3	5.17	131.3	5.67	144.0	6.85	174.0	8.1	205.7	8.1	205.7	8.1	205.7
D	2.5	63.5	2.56	65.0	2.56	65.0	2.56	65.0	3.75	95.3	4.25	108.0	4.25	108.0	4.25	108.0
E	45-53.2	1143-1351	54.5	1384.3	68	1727.2	78	1981.2	88	2235.2	120	3048.0	161	4089.4	183	4648.2
F	35.2	894.1	45	1143.0	45	1143.0	57	1447.8	67	1701.8	73-92.5	854-2350	73-92	1854-2337	73-112	1854-2845
G (Min Height)	34.8	883.9	38	965.2	38	965.2	38	965.2	38	965.2	45	1143.0	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	57-65	448-1651	52	1320.8	52	1320.8
J (Receiver)	13	330.2	15.5	393.7	15.5	393.7	15.5	393.7	19.5	495.3	25.5	647.7	25.5	647.7	25.5	647.7
K (Receiver)	18	457.2	30	762.0	30	762.0	30	762.0	50	1270.0	75	1905.0	75	1905.0	75	1905.0
L (Door Opening)	16-20	406.4-508	20	508.0	20	508.0	20	508.0	28	711.2	32	812.8	32	812.8	32	812.8
M (Optional CE Package)	20	508	24	609.6	24	609.6	30	762.0	30	762.0	30	762.0	30	762.0	30	762.0
N (Optional CE Package)	33-37	838-940	42	1066.8	51	1295.4	61	1549.4	71	1803.4	91-100	2540.0	141	3581.4	172	4368.8

\*At 100PSI (6.9 bar) \*\*At 120PSI (8.2 bar) † Optional 2000 lb (909kg) Pallet Load Capacity 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	lbs. / in	kg / mm	lbs. / in	kg / mm	lbs. / in	kg / mm
Clamping Force*	4200	1906.8	4200	1906.8	5200	2360.8	5200	2360.8	5200	2360.8	5200	2360.8
Receiver Weight	80	36.3	80	36.3	243	110.3	243	110.3	243	110.3	243	110.3
Pallet Weight	***	***	***	***	***	***	***	***	***	***	***	***
Pallet Thickness	1	25.4	1	25.4	1.5	38.1	1.5	38.1	2	50.8	2	50.8
Pallet Load Cap**	300	136.2	300	136.2	1000 †	454	1000 †	454	1000 †	454	1000 †	454
A (Pallet X Dim)	16	406.4	20-22	508-559	30	762	40-45	1016-1143	50	1270	60	1524
B (Pallet Y Dim)	14	355.6	16-20	406-508	16-20	406-508	20-25	508-635	20-30	508-762	25-30	635-762
C	4.12	104.6	4.12	104.6	5.17	131.3	5.17-5.67	131-144	5.67	144.0	5.67	144.0
D	80	2032.0	80	2032.0	109	2768.6	133-162	3378-4115	162	4114.8	192	4876.8
E	20	508.0	20-23.5	508-597	25	635.0	25-34	635-864	25-34	635-864	34	863.6
F (Min Height)	29	736.6	29	736.6	34.5	876.3	35-40	889-1016	40	1016.0	40	1016.0
G (Max Height)	39	990.6	39	990.6	44	1117.6	45-51	1143-1295	51	1295.4	51	1295.4
H (this is VMC Specific)	-	-	-	-	-	-	-	-	-	-	-	-
I	30	762.0	30	762.0	39	990.6	47-58	1194-1473	58	1473.2	68	1727.2
J (Receiver)	14	355.6	14	355.6	30	762.0	30	762.0	30	762.0	30	762.0
K (Receiver)	13	330.2	13	330.2	15.5	393.7	15.5	393.7	15.5	393.7	15.5	393.7
L	2.5	63.5	2.5	63.5	2.56	65.0	2.56	65.0	2.56	65.0	2.56	65.0
M	6.5	165.1	6.5-8.5	165-215	10.2	259.08	10.02-13.25	259-337	10.2-13.25	259-337	13.25	336.55
N (Adjustable Min)	75	1905	75	1905	104	2641.6	133-163	3378-4140	163	4140.2	193	4902.2

\*At 100PSI (6.9 bar) \*\*At 120PSI (8.2 bar) † 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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[www.midaco-corp.com](http://www.midaco-corp.com)

