

CINCINNATI

PRECISION MACHINES SINCE 1884

PALLET SYSTEM FOR MACHINING CENTERS

Note: Shown with Trade Show Guarding



CE Package Available

AUTOMATIC PALLET SYSTEMS

- Unattended pallet change in seconds
- Up to 8000+ lbs. (3636 kgs.) Capacity
- Electric Servo Drive
- Dual Air Blast At Each Contact Pad
- Fully Integrated To Any CNC Machine By Only Two M Functions

MANUAL PALLET SYSTEMS

- Up to 2000 lbs (909 kgs.) capacity
- Linear Guide Rails
- Compact design includes telescoping legs, adapts to all machines including those with chip/coolant drawers
- Air Blast At Each Contact Pad
- Dual Palm Buttons (Series 20 and larger) For Maximum Safety



INCREASE MACHINE AND OPERATOR PRODUCTIVITY

- Exchange Fixtures In Seconds With +/- .0001" (.0025mm) Repeatability
- Load, Unload, Inspect Parts And Set Up Jobs While Alternate Pallet Is In Machine
- Tooling, Vises, Indexers, Or Any Workholding Device Can Be Dedicated Onto Inexpensive Pallets
- Pallets Easily Interchanged Between Machines Or Departments
- Palletized Jobs Easily Interrupted For Emergency Or J.I.T. Jobs
- Heavy/Large Workpieces Easily Loaded Outside The Machine

Since 1969, MIDACO has been a leader in providing innovative and quality solutions to improve manufacturing efficiency for companies worldwide.

At MIDACO, we're not only making state-of-the-art technology... We're making it affordable!

Engineered And Manufactured In The U.S.A.... Supported Throughout The World

AUTOMATIC PALLET SYSTEMS

STANDARD SYSTEM includes

- 1 Cast Iron Receiver with Airblast for Chip Removal
- 2 Plain Cast Aluminum Pallets
- 1 End Mounted Shuttle
- 1 Custom-Fitted, Automatic Door
- 1 High-Visibility Indicator Lamp
- 1 Pallet Clamp Confirmation

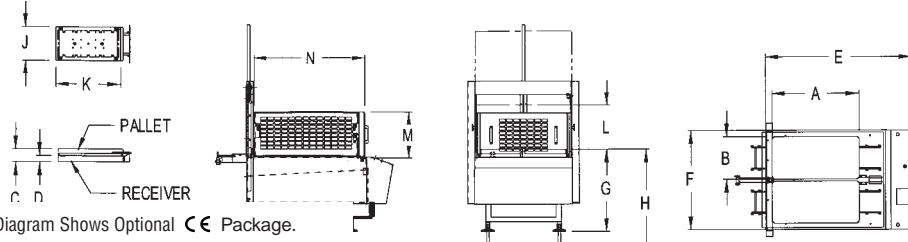
OPTIONS

- CE/CHIP Containment Enclosure
- Cast Iron, T-Slotted, Tapped-Hole Pallets
- Additional Models, Pallets and Pallet Transfer/Storage
- Accessories available

Automatic System

VMC Model	Travel	MIDACO Automatic #
ARROW 500	20" x 20"	A2416SD
ARROW 750	30" x 20"	A3020SD
ARROW 1000	40" x 20"	A4020SD
ARROW 1250	50" x 30"	A5030SD
ARROW 1250C	50" x 20"	A5020SD
ARROW 1500	60" x 30"	A6030SD
ARROW 2000	80" x 30"	A8030SD
SABRE 500	20" x 20"	A2416SD
SABRE 750	30" x 20"	A3020SD
SABRE 1000	40" x 20"	A4020SD
SABRE 1250C	50" x 20"	A5020SD
SABRE 1250	50" x 30"	A5030SD
SABRE 1500	60" x 30"	A6030SD
LANCER 1000	40" x 20"	A4020SD
LANCER 1000	40" x 30"	A5030SD
LANCER 1250	50" x 26"	A5025SD
LANCER 1500	60" x 30"	A6030SD
LANCER 2000	80" x 30"	A8030SD
LANCER V52000		

AUTOMATIC PALLET SYSTEMS



NOTE: Diagram Shows Optional CE Package.

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	SERIES 20SD	SERIES 30SD	SERIES 40SD	SERIES S5020SD	SERIES 5020/25SD	SERIES 60SD	SERIES 80SD
Clamping Force*	4500 (2043)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)	7500*** (3410)	15400 (7000)	15400 (7000)	20500 (9318)
Receiver Weight	136 (62)	350 (160)	350 (160)	350 (160)	450 (205)	450 (205)	2075 (942)
Pallet Weight	80 (36)	140 (64)	210 (95)	250 (113)	340 (155)	455 (207)	790 (359)
Pallet Thickness:	1.00 (25.4)	1.50 (38.1)	2.00 (50.8)	2.00 (50.8)	2.00 (50.8)	2.00 (50.8)	2.50 (63.5)
Pallet Load Cap:**	500 (227)	1000/2000*** (454/908)	1000/2000*** (454/908)	2000 (908)	4000 (1818)	4000 (1818)	8000 (3636)
A (Pallet X Dim)	24 (610)	30 (762)	40 (1016)	50 (1270)	50 (1270)	60 (1524)	80 (2032)
B (Pallet Y Dim)	12-15 (305-381)	15.5-19 (394-482)	15.5-19 (394-482)	15.5-19 (394-482)	19.5-24 (495-610)	19.5-29 (495-736)	25.5-30 (648-762)
C	5.85 (149)	6.35 (162)	6.85 (174)	6.85 (174)	6.85 (174)	6.85 (174)	9.13 (232)
D	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)	5.75 (146)
E	53 (1346)	58 (1473)	68 (1727)	78 (1980)	78 (1980)	88 (2235)	116 (2946)
F	40 (1016)	45 (1143)	45 (1143)	45 (1143)	57 (1448)	67 (1702)	73 (1854)
G (Max Height)	36.5 (927)	38 (965)	38 (965)	38 (965)	38 (965)	38 (965)	40 (1016)
H (Max Height)	44 (1118)	49 (1245)	49 (1245)	49 (1245)	52 (1321)	52 (1321)	60 (1524)
J (Receiver)	11.5 (292)	15.5 (394)	15.5 (394)	15.5 (394)	19.5 (495)	19.5 (495)	25.5 (648)
K (Receiver)	22 (559)	30 (762)	30 (762)	30 (762)	40 (1016)	40 (1016)	75 (1905)
L (Door Opening)	18 (457)	20 (508)	20 (508)	20 (508)	28 (711)	28 (711)	32 (813)
M (Optional Package)	20.8 (528)	20.8 (528)	20.8 (528)	20.8 (528)	20.8 (528)	20.8 (528)	21 (533)
N (Optional Package)	36.5 (927)	42 (1067)	51 (1295)	61 (1549)	61 (1549)	71 (1803)	91 (2311)

Automatic systems require 2 M functions and 230 volt, 3 phase, 30 amp electric service for installation.

STANDARD MANUAL SYSTEM includes

- 1 Cast Iron Receiver with Air Blast for Chip Removal
- 2 Plain Cast Aluminum Pallets
- 1 Front-Mounted Side-By-Side Shuttle
- 1 Pallet Clamp Confirmation

OPTIONS

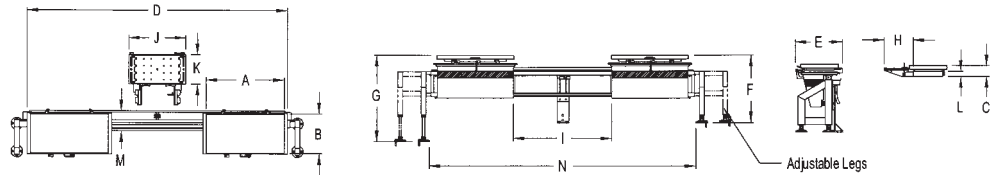
- Cast Iron, T-Slotted, Tapped-Hole Pallets
- Additional Models, Pallets and Pallet Transfer/Storage
- Accessories Available

Manual System

VMC Model	Travel	MIDACO Manual #
ARROW 500	20" x 20"	M2216FL or M2020FL
ARROW 750	30" x 20"	M3020FL
ARROW 1000	40" x 20"	M4020FL
ARROW 1250	50" x 30"	M5030FL
ARROW 1250C	50" x 20"	M5020FL
ARROW 1500	60" x 30"	M6030FL
ARROW 2000	80" x 30"	M7230FL
SABRE 500	20" x 20"	M2216FL or M2020FL
SABRE 750	30" x 20"	M3020FL
SABRE 1000	40" x 20"	M4020FL
SABRE 1250C	50" x 20"	M5020FL
SABRE 1250	50" x 30"	M5030FL
SABRE 1500	60" x 30"	M6030FL
LANCER 1000	40" x 30"	M5030FL
LANCER 1250	50" x 26"	M5025FL
LANCER 1500	60" x 30"	M6030FL
LANCER 2000	80" x 30"	M7230FL
LANCER V52000		

MANUAL PALLET SYSTEMS

MANUAL PALLET SYSTEMS



	M1614FL	M2216FL	M2020FL	M3016/18/20FL	M4020FL	M5020FL	M5025/30FL	M6030FL	M7230FL
Clamping Force*	4200 (1905)	4200 (1905)	4200 (1905)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)	5200/7500*** (2360/3410)
Receiver Weight	95 (43)	135 (61)	135 (61)	350 (160)	350 (160)	350 (160)	350 (160)	350 (160)	350 (160)
Pallet Weight	31 (14)	55 (25)	63 (29)	140 (64)	212 (96)	252 (115)	325 (148)	435 (198)	510 (232)
Pallet Thickness:	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)	1.5 (38)	2.0 (50.8)	2.0 (50.8)	2.0 (50.8)	2.0 (50.8)	2.0 (50.8)
Pallet Load Cap:**	300 (136)	300 (136)	300 (136)	1000/2000*** (454/908)	1000/2000*** (454/908)	500/2000*** (227/908)	500/2000*** (227/908)	500/2000*** (227/908)	500/2000*** (227/908)
A (Pallet X Dim)	16 (406)	22 (559)	20 (508)	30 (762)	40 (1016)	50 (1270)	50 (1270)	50-60 (1270-1524)	72 (1829)
B (Pallet Y Dim)	14 (356)	16 (406)	20 (508)	16-20 (406-508)	20 (508)	20 (508)	25 (635)	30 (762)	30 (762)
C	4.12 (104)	4.12 (104)	4.12 (104)	6.35 (162)	6.85 (174)	6.85 (174)	6.85 (174)	6.85 (174)	6.85 (174)
D	80 (2032)	80 (2032)	80 (2032)	109 (2770)	138 (3505)	168 (4267)	168 (4267)	198 (5030)	234 (5944)
E	21.3 (541)	21.3 (541)	24.3 (541)	26 (660)	26 (660)	26 (660)	31 (787)	36 (914)	36 (914)
F (Min Height)	29 (736)	29 (736)	29 (736)	34.5 (876)	35 (889)	40 (1016)	40 (1016)	40 (1016)	40 (1016)
G (Max Height)	39 (990)	39 (990)	39 (990)	44 (1117)	45 (1143)	51 (1295)	51 (1295)	51 (1295)	54 (1372)
H	****	****	****	****	****	****	****	****	****
I	29 (736)	29 (736)	29 (736)	39 (990)	42 (1066)	52 (1321)	52 (1321)	62 (1575)	74 (1880)
J (Receiver)	14 (355)	19 (483)	19 (483)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)
K (Receiver)	13 (330)	13 (330)	13 (330)	15.5 (394)	15.5 (394)	15.5 (394)	15.5 (394)	15.5 (394)	15.5 (394)
L	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)	3.75 (95)
M	9.0 (229)	9.0 (229)	10 (254)	7.0 (178)	11 (275)	11 (275)	14 (356)	14 (356)	16 (406)

Weight capacities shown in lbs (kgs). Dimensions shown in inch (mm) *At 100PSI (6.9 bar) **At 120PSI (8.2 bar) ***Optional 2000 lb (909 kg) Pallet Load Capacity available ****Manufactured to fit specific VMC application Patent Pending Specifications subject to change without notice.

- Midaco pallet systems are designed for machines with stationary guarding. Some machines require options or customization.
- Additional pallet systems for traveling column or special applications available.
- Contact your sales representative to confirm model and specifications for all applications



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