

MANUAL LIFT-OFF





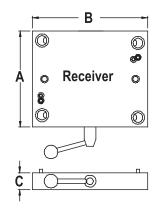
For productivity on all types of machining centers, MIDACO's Micro Pallet System[™] allows operators to manually change pallets in seconds.

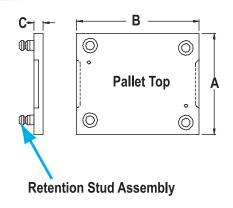
Easy flip handle precisely locks pallet into cast iron receiver.

The low profile receiver does not require air supply making it versatile for horizontal, vertical and special application machines.

Each Standard Micro Pallet System (model MPS 31) Includes:

	Receiver	Pallet Top					
Material:	Cast Iron	Aluminum					
Quantity:	One	Two					
Weight:	40 lbs (18.18 kg)	14 lbs (6.36 kg)					
A:	10" (254mm)	10.5" (266.7mm)					
B:	12" (304.8mm)	12.75" (323.85mm)					
C:	1.75" (44.45mm)	1" (25.4mm)					
Retention Stud Assembly - 8 standard							





PNEUMATIC LIFT-OFF



Pallet guide rails on the front of the receiver allow safe and easy loading of pallets in only seconds. The operator simply pushes a button to activate the pneumatic clamping mechanism.



The "Receiver and Pallets Only" systems are available with pallets from 22"x16" (558.8 mm x 406.4 mm).

Optional "Side by Side" shuttle or Pallet Transfer Cart can be added to assist operators when moving pallets or heavy fixtures.



"SIDE BY SIDE" SHUTTLE PALLET SYSTEM

MIDACO's front load "Side by Side" Shuttle Pallet System comes with one cast iron, pneumatically powered receiver, two cast aluminum pallets and one "Side by Side" Shuttle allowing an operator to switch pallets in seconds.

The operator simply activates the pneumatic receiver to unclamp the pallet. The completed pallet (**A**) can be rolled out of the machine to the shuttle. The next pallet

- (**B**) can be quickly rolled into the machine and clamped in only seconds.
- (**C**) Precision ground linear guide rails provide smooth and easy transfer of pallets.
- (**D**) Adjustable legs telescope out allowing access to chip/coolant drawers.
- (**E**) Full length shuttle drip through captures coolant and chips.





RECEIVER



Cast Iron pneumatically powered receiver mounts to the machine table.
Standard plain cast aluminum pallets.
Optional cast iron, T-Slotted and Tapped hole pallets available. Pallet handle promotes ease of use.

Multiple Safety Interlocks

"Air Blast" at each contact pad of pneumatic receiver is standard for chip removal.
"Dual Palm Buttons" (Series 20 and larger) activate receiver maximizing operator safety.
Repeatability is +/- .0001" (.0025 mm).

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

CUSTOMER SATISFACTION

"Since I've added 5 MIDACO pallet changers, I've increased my productivity OVER 600%."

"100% plus increase in productivity without suffering quality."

"Productivity has increased over 90% and downtime due to loading and unloading parts was greatly reduced."

"25% savings in job set up time, eliminating lifting of heavy devices such as vises and rotary heads."

"We have achieved a 2 hour savings in production during an 8 hour shift, a 25% increase in productivity."

"I've been in the industry for over 25 years and have seen a lot of different machines and pallet changers. MIDACO's product is the best and most user friendly I've seen."

VARIOUS SYSTEMS AVAILABLE

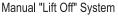
Various pallet sizes, automatic, rotary and double systems are available along with other accessories designed to meet your needs.





Micro Pallet System - MPS31







Dual Automatic System



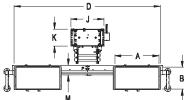
Automatic Door System

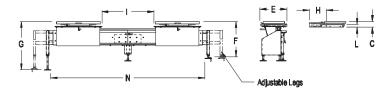


Trunnion System for 4th Axis

Manual Pallet Changer Specifications Note: Manual Pallet Changer may require a Transfer Bridge depending on postion of VMC control pannel. Contact Midaco for quote on a specific application.







Manual Series	M1	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	20-25	508-635	25	635
С	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)	-	-	-	-	-	-	-	1	-	-	-	-
	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			3378-4140	163		193	4902.2



Shown with Transfer Bridge





*At 100PSI (6.9 bar) **At 120PSI (8.2 bar) † Optional 2000 |b (909kg) Pallet Load Capacity Patented. Specifications subject to change without notice.

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



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