

Auto-coupler systems *Application & selection*

Shown: MCA-62, MPA-62



The automatic coupler system allows connection and disconnection of palletized hydraulic circuits. This system eliminates the direct intervention of an operator, allowing hands free, safe functioning of the process. Typical systems include one base station located at the load/unload station operating one or more pallet receivers.

■ ACCB-2 Control shown with ZW4020HW-FHLT12U300 Pump.



■ A 4-way auto coupler is connected to the receiver, mounted on the side of a palletized fixture.



For automated coupling of hydraulic circuits on palletized systems

- Sensing feedback of coupler position allows for fully automated applications
- Horizontal or vertical mounting for flexible installation on machine tools
- Available as 2 or 4 port model to provide a solution to various hydraulic circuit needs
- Adjustment stroke allows clearance for pallet indexing
- Coupler elements supplied with air blow-off nozzles to prevent damage from contamination
- Automatic coupler control box provides pre-programmed safety features to insure proper sequencing of automatic coupler and fixture operations.



ACCB-2, Automatic coupler control box

175 ▶

- Provides automatic or manual control of your 2 or 4 port auto coupler station.
- Panel view informs when auto coupler is retracted or advanced and whether fixture is unclamped or clamped.
- Includes 2 pressure switches, 3 proximity switches.
- Pressure switches monitor clamping and unclamping system pressure.
- Proximity switches inform PLC when auto coupler is advanced or retracted and when pallet is in position for the auto coupling.
- Integrates with ZW4020HW-FHLT12U300 and ZW5020HW-FHLT12U300 pumps.

Product selection

Station position	Model number ¹⁾	Adjustable stroke		Oil capacity		Maximum oil flow ²⁾
		mm	advance	retract	cm ³	
▼ 2 port auto coupler						
Base	MCA-62	5 - 15	10,8	10,8	1,0	
Base	WCA-82*	104 - 113	10,8	10,8	1,0	
Pallet	MPA-62	-	-	-	-	
▼ 4 port auto coupler						
Base	MCA-64*	5 - 15	10,8	10,8	1,0	
Pallet	MPA-64*	-	-	-	-	

¹⁾ For additional pallet clearance, WCA-82 long stroke model are available.

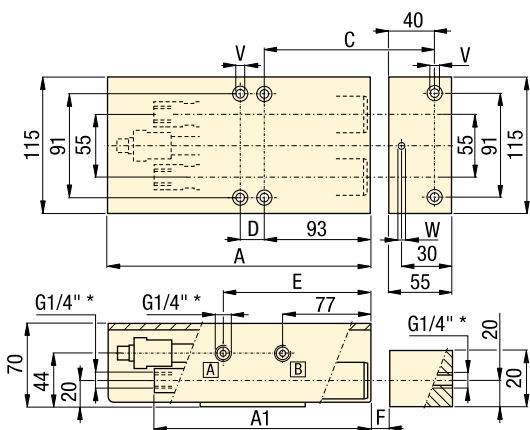
²⁾ Maximum oil flow of coupler elements is 16 l/min.

* This product is made to order. Please contact Enerpac for delivery information before specifying in your design.

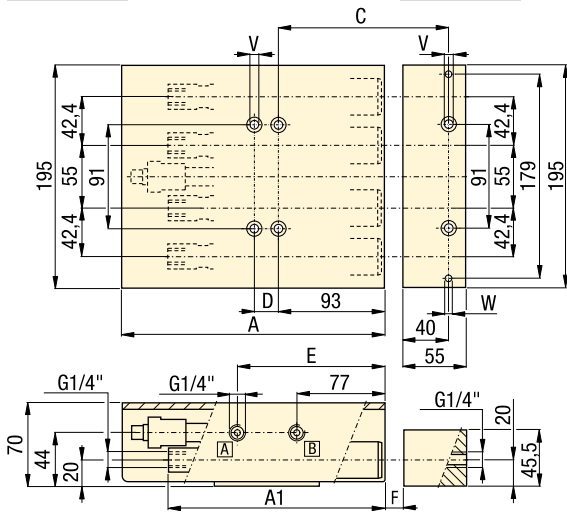
Product specifications

Model number	Required radial alignment accuracy mm	Operating pressure bar	Hydraulic nozzle model number (included)	Air blow-off fitting model No. (included)	Recommended alignment tool
▼ 2 port auto coupler					
MCA-62	± 0,5	40 - 350	CDF-6	FZ-2050	AT-1
WCA-82	± 0,5	40 - 350	CDF-6	FZ-2050	AT-2
MPA-62	± 0,5	40 - 350	CDM-6	FZ-2050	AT-1
▼ 4 port auto coupler					
MCA-64	± 0,5	40 - 350	CDF-6	FZ-2050	AT-1
MPA-64	± 0,5	40 - 350	CDM-6	FZ-2050	AT-1

MCA-62, WCA-82 **MPA-62**



MCA-64 **MPA-64**



Model number	Voltage / Current
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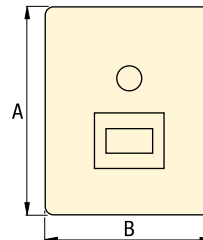
▼ Automatic Coupler Control Box

ACCB-2 115 VCA / 10 A

Note: Enclosure rating NEMA 12.

ACCB-2

Operator Station



Connection: 2 - 4 ports

Stroke: 5 - 113 mm

Pressure: 40 - 350 bar

E Acopladores automáticos

F Coupleurs automatiques

D Automatische Kupplungen

Options

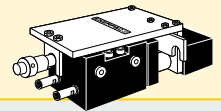
High pressure filters

193 ▶



AT series alignment tool

Use the AT series alignment tool to adjust the position of the pallet station in relation to the base station.



Hoses and couplers

192 ▶



Important


Use high pressure filters on pallet station outlet ports, to avoid contamination of pallet mounted valves and cylinders.

To guarantee leakage free connections, accurate positioning of the pallet and base stations is crucial. Carefully read the instruction manual included with the product.

Do not couple or uncouple with the hydraulic nozzles under pressure. This could damage the internal coupler seals.

Do not exceed maximum flow and pressure.

Product dimensions in mm []

Model number	A	A1	B	C	D	E	F max.	V ¹⁾ for mounting bolts thread x length	W ²⁾	 kg
▼ 2 port auto couplers										
MCA-62	225	190	-	137,7	21	129,3	10,0-10,5	M8 x 90	-	7,6
WCA-82*	398	356	-	237,7	100	208,3	94	M8 x 90	-	13,1
MPA-62	-	-	-	-	-	-	-	M8 x 90	5,8	1,8
▼ 4 port auto couplers										
MCA-64*	225	190	-	137,7	21	129,3	10,0-10,5	M8 x 90	-	13,2
MPA-64*	-	-	-	-	-	-	-	M8 x 90	5,8	3,0
▼ Automatic coupler control box³⁾										
ACCB-2	325	-	300	-	-	-	-	-	-	13,6

¹⁾ Mounting bolts are not included. ²⁾ Drill dowel pin holes after installing MPA. * This product is made to order. Please contact Enerpac for delivery information before specifying in your design.