

# PALLET CHANGER









## SERIES SPP

### ▶ PRODUCT ADVANTAGES

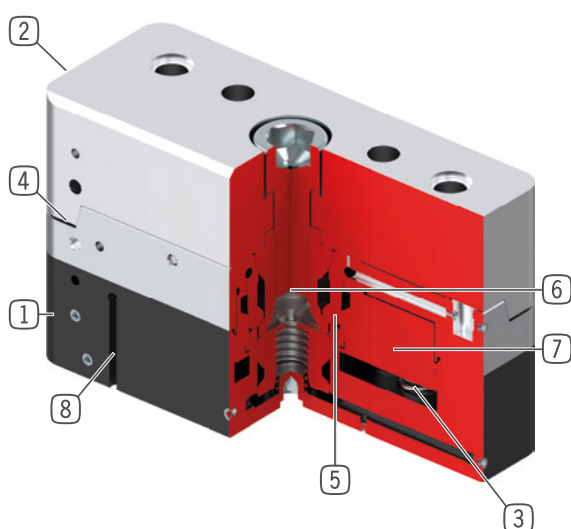


- ▶ Maximum clamping and holding force
- ▶ Slim design for maximum utilization of the machine space
- ▶ Sensing of clamping state and pallet presence
- ▶ Reliable handling thanks to cleaning function and spring accumulator

### ▶ SERIES CHARACTERISTICS

	Magnetic field sensor	•
	Protected against corrosion	•
	Pins compatible with reference system	•
	Torque support	•
	PLUS connection	•
	Pneumatic	•
	Form fit	•
	Low height	•

## ► BENEFITS IN DETAIL



- ① **Pallet changer**  
- For robot side assembly
- ② **Pallet coupling**  
- For mounting on the pallet/workpiece side
- ③ **Spring accumulator**  
- energy storage in case of drop in pressure
- ④ **Torque support/rotation lock**  
- High snapshot
- ⑤ **Locking**  
- Positive locking by means of clamping segments
- ⑥ **Clamping pin**  
- Power transmission between pallet coupling and pallet changer
- ⑦ **Drive**  
- Double-acting pneumatic rotor cylinder
- ⑧ **Piston position sensing**  
- Via magnetic field sensors, on both sides

## ► TECHNICAL DATA

Installation Size	Pull-in force	Pull-in force with PLUS connection	Operating pressure
	[kN]	[kN]	[bar]
138	10.0	22.0	4.5 ... 7

## ► FURTHER INFORMATION IS AVAILABLE ONLINE

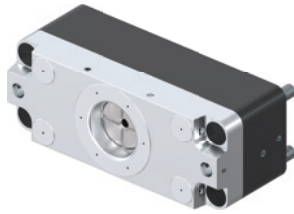


All information just a click away at: [www.zimmer-group.com](http://www.zimmer-group.com). Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

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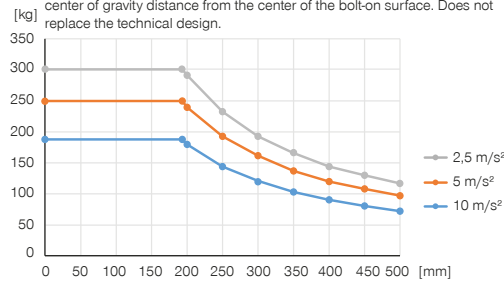
## INSTALLATION SIZE SPP138

### ▶ PRODUCT SPECIFICATIONS



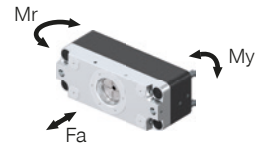
#### ▶ Variable installation position

Shows the maximum handling weight as a function of acceleration and the center of gravity distance from the center of the bolt-on surface. Does not replace the technical design.



#### ▶ Forces and moments

Shows static forces and moments which may impact on the pallet changer when locked.



	Aluminum	Steel
Mr [Nm]	1250	2000
My [Nm]	650	650
Fa [N]	10000	10000
Fa PLUS [N]	22000	22000

### ▶ RECOMMENDED ACCESSORIES



#### ENERGY SUPPLY



**GVM5**  
Straight Fittings - Quick Connect Style



**WVM5**  
Angled Fittings - Quick Connect Style



#### SENSORS



**MFS01-S-KHC-P1-PNP**  
Magnetic field sensor angled, cable 0.3 m - M8 connector



#### CONNECTIONS / OTHER



**SPP138KS-B**  
Pallet coupling steel



**SPP138KA-B**  
Pallet coupling aluminum

Order no.	► Technical data
	<b>SPP138-B</b>
Operation	pneumatic
Pull-in force [kN]	10.0
Pull-in force with PLUS connection [kN]	22.0
Operating pressure [bar]	4.5 ... 7
Rotation prevention	Yes
Air cleaning	Yes
Piston position sensing	electric
Repetition accuracy [mm]	0.020
Operating temperature [°C]	-10 ... +70
Material	Tempered stainless steel/aluminum
Weight [kg]	2.4

