# **AXIS COMPENSATION MODULES SERIES ARP**

## PRODUCT ADVANTAGES



## ► Lockable centre placement

When moving your robot, you can fix the equalizer in place so that uncontrolled movements of the workpiece do not take place

## Extremely flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

# Variable balancing force and moment

Adjust the equaliser to your handling weight by mounting a spring package based on desired rigidity

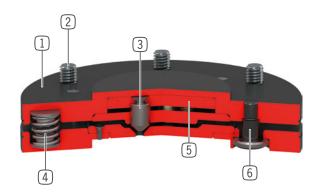
# THE BEST PRODUCT FOR YOUR APPLICATION



### Our products welcome the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you endless possibilities. Find the best product for your specific use: www.zimmer-group.com

# **BENEFITS IN DETAIL**



- 1 Robust, lightweight housing
  - Hard-coated aluminum alloy

#### (2) Robot flange

- partial mounting circle in accordance with EN ISO 9409-1

# 3 Locking

- 3 locking pistons
- nitrated steel

## 4 Spring package

- version size 63, stronger one is available
- version size 100, 3 springs can be removed

#### (5) Locking drive

- single-acting pneumatic cylinder
- 6 Guiding bolts with ball cup

# **► TECHNICAL DATA**

	Connecting flange according EN ISO 9409-1	Deflection hoirontal +/-	Defletion vertical +/-
Installation size		[mm/°]	[mm/°]
AR40P	TK 40	2 / 1	2 / 1
AR50P	TK 50	2 / 1	2 / 1
AR63P	TK 63	2 / 1	2 / 1
AR80P	TK 80	2 / 1	2 / 1
AR100P	TK 100	2 / 1	2 / 1
AR125P	TK 125	2/1	2 / 1
AR160P	TK 160	2/1	2 / 1

# ► FURTHER INFORMATION IS AVAILABLE ONLINE



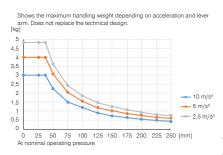
All information just a click away at: www.zimmer-group.com. Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.

# **AXIS COMPENSATION MODULES INSTALLATION SIZE AR50P**

## **▶ PRODUCT SPECIFICATIONS**



### Variable installation position



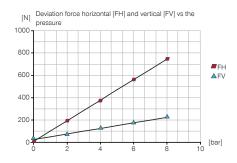
### Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

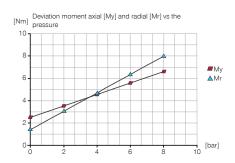


Mr [Nm]	60
My [Nm]	60
Fa [N]	800

#### Spring Pack 1 (pre-assembled)



#### Spring Pack 1 (pre-assembled)



## INCLUDED IN DELIVERY



4 [piece] Cylinder Screw C7984060129



4 [piece] Spring Pack 1 (pre-assembled) CFED11180

# ► RECOMMENDED ACCESSORIES



# **ENERGY SUPPLY**



# **ENERGY SUPPLY**



Angled Fittings - Barb Style Connection



Straight Fittings - Barb Style Connection

	► Technical data
Order no.	AR50P
Connecting flange according EN ISO 9409-1	TK 50
Installation Height [mm]	21.5
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation +/- [mm]	2
Vertical deviation +/- [°]	1
Centering force when locking [N]	170
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm³]	2
Operating pressure [bar]	18
Nominal operating pressure [bar]	6
Operating temperature [°C]	5 +80
Moment of inertia [kgcm <sup>2</sup> ]	1.1
Weight [kg]	0.2

