

# AMWD-WS

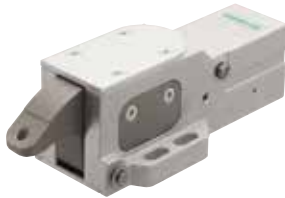
# PNEUMATIC HOLD DOWN CLAMPS



★ **One Point**  
Magnetic sensor mountable!

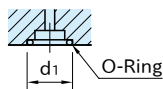
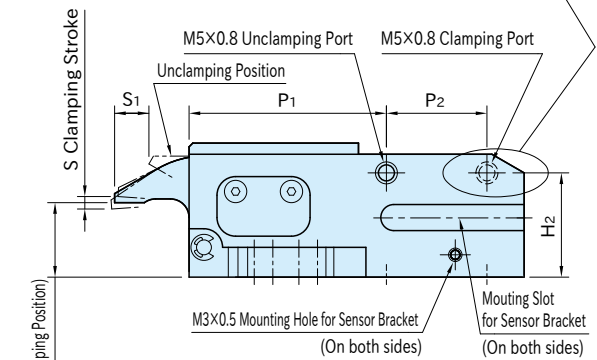
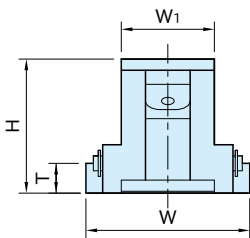
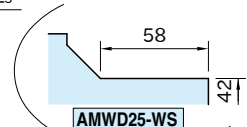
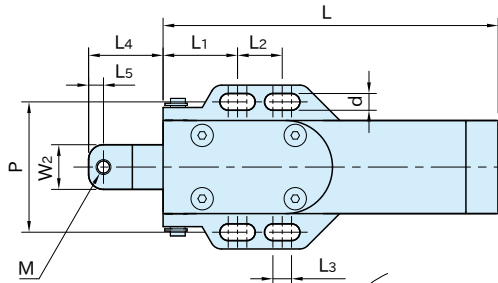


**AMWD16-WS**

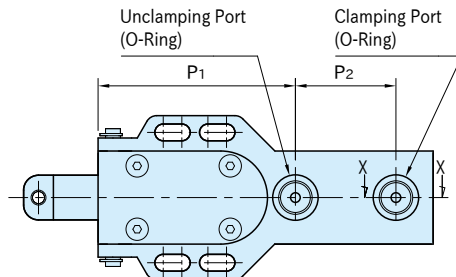


**AMWD25-WS**

Body	Clamp Arm
AC7A aluminum Anodized	SCM415 steel Carburized-hardened Electroless Nickel Plated



Section X-X



Part Number	W <sub>2</sub>	L <sub>4</sub>	M	L <sub>5</sub>	H <sub>1</sub>	S	S <sub>1</sub>	L	W <sub>1</sub>	H	W	T	d	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
<b>AMWD16-WS</b>	12	20	M4×0.7	4	20	2	9	90	25	36	44	8	4.5	20	12	5
<b>AMWD25-WS</b>	18	32	M6×1	6	30	3	15	135	40	54	65	12	6.5	30	20	8

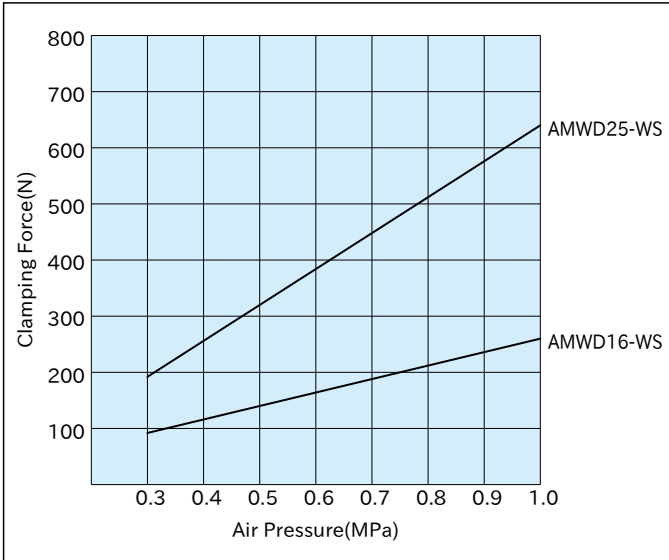
Part Number	P	d <sub>1</sub>	P <sub>1</sub>	P <sub>2</sub>	H <sub>2</sub>	Operating Air Pressure (MPa)	Clamping Force (N) *	Furnished O-Ring	Weight (g)
<b>AMWD16-WS</b>	35	12.2	53	27	28	0.3 - 1.0	140	P 9	250
<b>AMWD25-WS</b>	53	18	84	38	33		320	P14	850

**Supplied With**

2 of O-Ring

\*) The clamping forces above are at 0.5 MPa.

**Performance Curve**

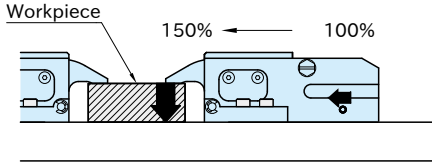


**Related Product Page**

[AMWD-WS-B](#) SENSOR BRACKETS

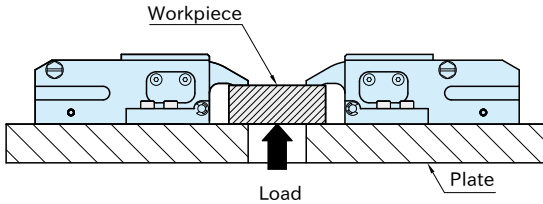
## Feature

- Wedge mechanism provides 150% clamping force.



- The allowable counterforce is shown in the chart below.
- Wedge mechanism prevents the clamping force from immediate decrease if air pressure lowers.

Note: The clamping force may be decreased by excessive vibration.

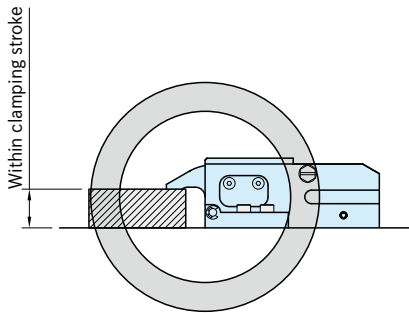


Allowable Counterforce (Per Clamp)

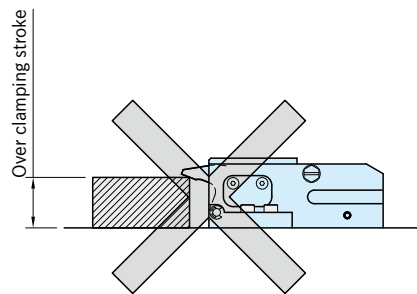
Part Number	Allowable Force (kN)
<b>AMWD16-WS</b>	1
<b>AMWD25-WS</b>	2.2

## Note

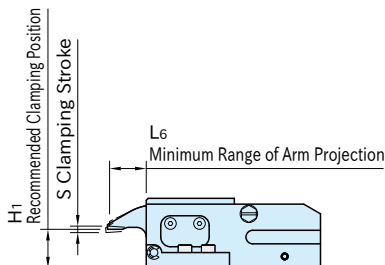
- Use clean air by removing moisture and debris with an air dryer and air filter.
- Impurities in the compressed air can cause malfunction.
- Use the clamp within the clamping stroke.



The wedge mechanism works to clamp the workpiece securely.



The wedge mechanism does not work.

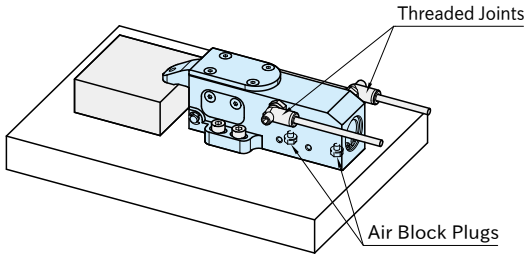


Part Number	S	H <sub>1</sub>	L <sub>6</sub>
<b>AMWD16-WS</b>	2	20	19
<b>AMWD25-WS</b>	3	30	30.5

## How To Use

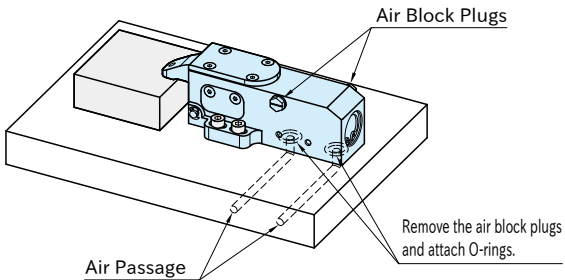
### ■ With Side Ports

- Ensure that the furnished air block plugs are attached to the bottom ports.
- Remove the air block plugs on the side ports and connect the piping.
- Refer to the figure below for the hole preparation.

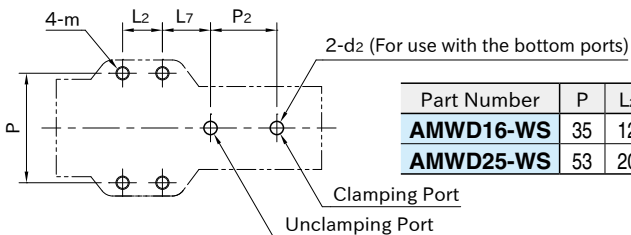


### ■ With Bottom Ports

- Ensure that the furnished air block plugs are attached to the side ports.
- Remove the air block plugs on the bottom ports and attach O-rings (included) to it.
- Plate surface must be flat ( $\nabla^{6.3}$ ) to get the bottom ports sealed up.
- Refer to the figure below for the hole preparation.



### ■ Hole Preparation



Part Number	P	L <sub>2</sub>	L <sub>7</sub>	P <sub>2</sub>	m	d <sub>2</sub>
<b>AMWD16-WS</b>	35	12	21	27	M4×0.7	φ2 - φ4
<b>AMWD25-WS</b>	53	20	34	38	M6×1	φ2 - φ6