

AMSW-W-D

COMPACT PNEUMATIC SWING CLAMPS WITH ROD

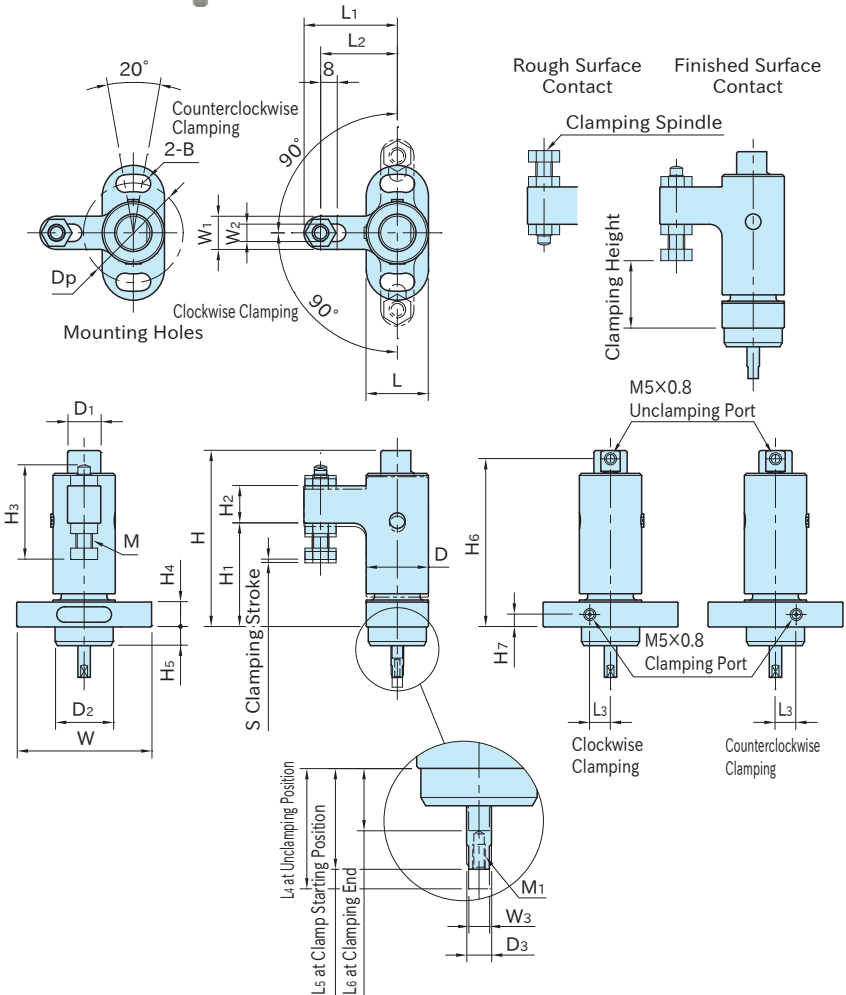
HS Electroless Nickel Plated

IMAO



★ **Key Point**
Compact design!

Body / Clamp Arm / Piston	Rod	Clamping Spindle
SCM440 steel Electroless nickel plated	S45C steel Electroless nickel plated	S45C steel Quenched and tempered Electroless nickel plated



Part Number	Clamping Direction	Clamping Height *)				S	L ₂	L ₁	W	L	H ₄	B	D _p	H	D	W ₁	W ₂	H ₂	H ₁	M
		Finished Surface Contact		Rough Surface Contact																
		Min.	Max.	Min.	Max.															
AMWSW16R-W-D	CW	32.5	39	33.5	40	1.2	37	45	65	30	12	8.4	48	85	30	16	8.4	18	50	M 8×1.25
AMWSW16L-W-D	CCW																			
AMWSW20R-W-D	CW	41.5	51	44	53.5	1.6	45	55	85	40	15	10.5	64	106	40	20	10.4	22	65	M10×1.5
AMWSW20L-W-D	CCW																			

Part Number	H ₃	D ₁	D ₂	H ₅	L ₃	H ₆	H ₇	L ₄	L ₅	L ₆	M ₁	D ₃	W ₃	Operating Air Pressure(MPa)	Clamping Force(kN)**	Holding Capacity(kN)**	Weight (g)
AMWSW16R-W-D	45.5	16	28	9	10	81	6	29	24	17	M3×0.5	6	5	0.3~0.7	0.35	0.7	510
AMWSW16L-W-D											Depth 6						
AMWSW20R-W-D	57	22	35	11	13	101	8	35	29	19.5	M4×0.7	8	7		0.55	1.1	1130
AMWSW20L-W-D											Depth 8						

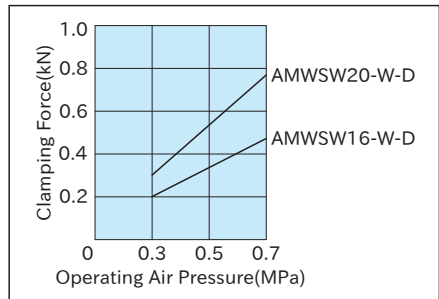
*) Clamping height can be adjusted within this range.

**) The clamping force and the holding capacity above are at 0.5 MPa.

Feature

The rod on the bottom of the clamp can be used for detecting clamping/unclamping with switches.

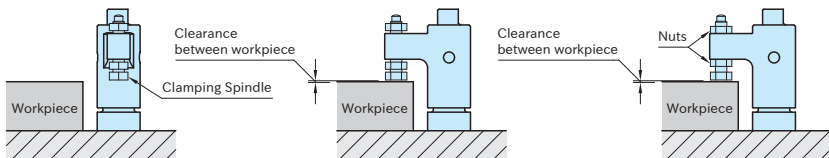
Performance Curve



How To Use

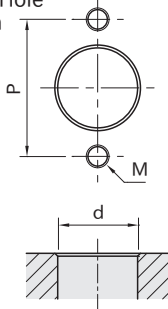
Setting Clearance between Workpiece

A clearance between clamping spindle and workpiece should be roughly half of the clamping stroke. The clamp arm swings horizontally. Follow the steps below to adjust the clamping spindle to create proper clearance.



1. Apply air to the unclamping port with an air blow gun to move the clamp to unclamping position.
2. Rotate the arm manually to straight direction, and create an appropriate clearance to the workpiece. Putting a feeler gauge between the workpiece and the clamping spindle facilitates this setting.
3. Fix the clamping spindle with nuts.

Mounting-Hole Dimension



Part No.	d (+0.2)	M	P
AMWSW16-W-D	28	M 8×1.25	48
AMWSW20-W-D	35	M10×1.5	64