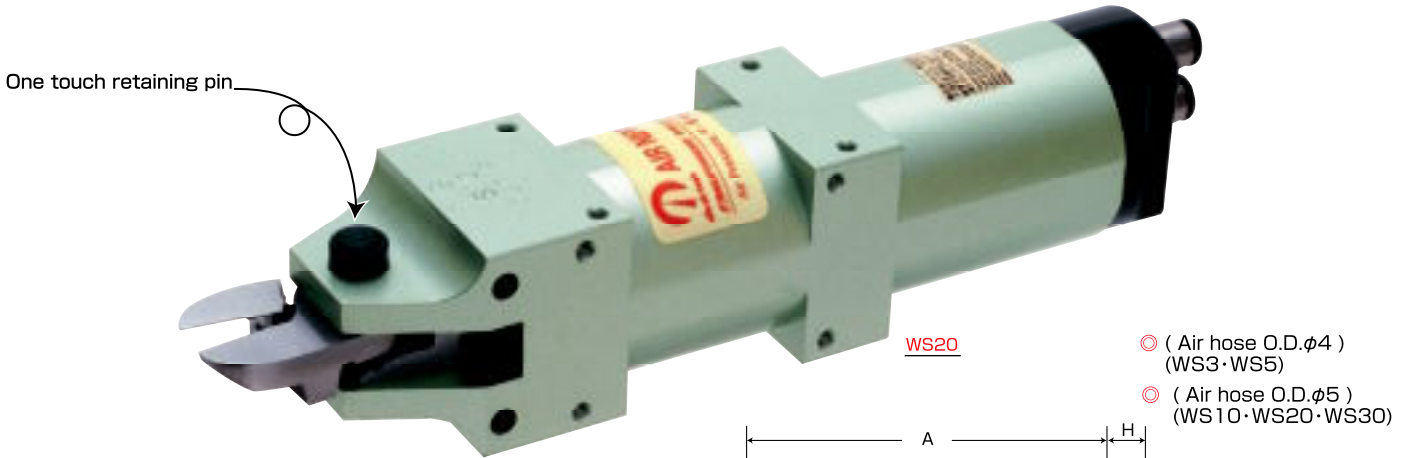


MACHINE-FITTING TYPE DOUBLE-ACTION AIR CUTTERS

● **WS Type**

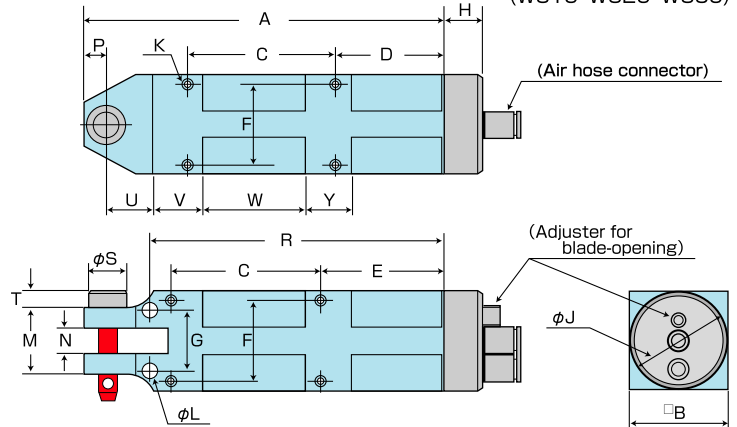
**NO TOOL IS NEEDED FOR
BLADE REPLACEMENT !**

Spring-less blades are equipped to WS-Type air cutters!



FEATURES

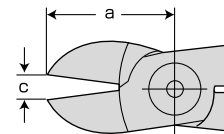
- ◆ Trouble-free from spring damage.
- ◆ Quick and easy replacement of blades by hands without using any tool.
- ◆ Opening angles of blades can be adjusted (except WS3 type.)



Dimensions

Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	Y
WS3	107	20	43	34	39	16	14	6	20	M3	3.3	20	7	7	89	11	5	3	24	30	13
WS5	104	30	43	31	36	24	18	11	30	M3	4.3	20	7	7	84	11	5	13	14	30	13
WS10	142	36	55	42	47	28	28	18	36	M4	4.3	23	9	7	114	11	5	16	27	40	15
WS20	170	45	55	65	70	36	30	18	45	M4	5.3	26	12	9	142	11	5	15	31	40	20
WS30	223	56	80	73	83	46	40	21	56	M5	5.3	36	17	15	183	12	5	20	41	50	37

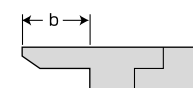
Model No.	Weight Air consumption	Power (approx.) Air pressure	Blade No.	Cutting capacity φ mm		
				Steel wire	Copper wire	Plastics
WS3	88 g	265 N	FW10, FW10S	—	—	1.0
	39 cm ³ /Stroke	0.4~0.5 MPa	SW20, SW20S	0.5	0.8	—
WS5	179 g	390 N	FW1, FW1S	—	—	2.0
	65 cm ³ /Stroke	0.4~0.5 MPa	SW2, SW2S	0.5	1.0	—
WS10	309 g	580 N	FW3, FW3S	—	—	4.0
	198 cm ³ /Stroke	0.4~0.5 MPa	SW4, SW4S	1.0	1.6	—
WS20	537 g	1,370 N	FW5, FW5S	—	—	7.0
	567 cm ³ /Stroke	0.5~0.6 MPa	SW5, SW5S	2.0	2.6	—
WS30	1,050 g	2,740 N	FW9P, FW9PS	—	—	10.0
	1,045 cm ³ /Stroke	0.5~0.6 MPa				



● FW, SW Type



● FW-S, SW-S Type



Blade No.	a	b	c
FW10	24	13	3.0
FW10S	24	13	3.0
FW1	24	13	3.5
FW1S	24	13	3.5
FW3	27	14	5.5
FW3S	27	13	5.5
FW5	35	19	8.5
FW5S	35	16	8.5
FW9P	66	38	15.0
FW9PS	65	37	15.0
SW20	24	10	3.0
SW20S	24	12	3.0
SW2	24	10	3.5
SW2S	24	12	3.5
SW4	27	13	5.5
SW4S	27	13	5.5
SW5	35	20	8.5
SW5S	35	16	8.5