

Air nipper actuators (series GNS)

- Three sizes available.
- Small dimensions.
- Usable with several standard blades (1).
- With or without integrated slide.
- Double-acting slide, spring closed or spring open.
- Optional magnetic sensors.



GNS-05-NC
GNS-05-NO



GNS-05

GNS-10-NC
GNS-10-NO



GNS-10

GNS-20-NC
GNS-20-NO



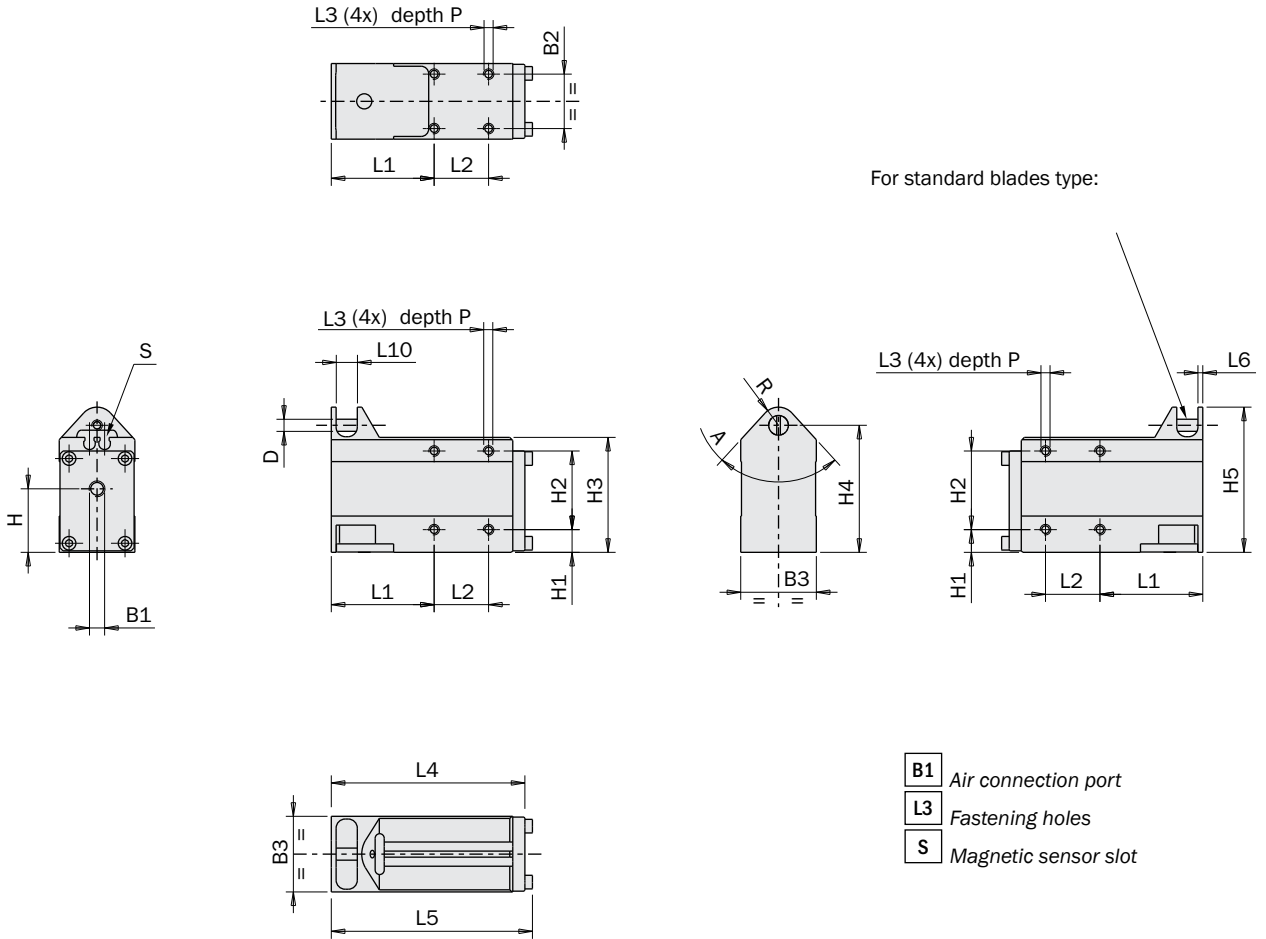
GNS-20

	GNS-05 GNS-05-NC GNS-05-NO	GNS-10 GNS-10-NC GNS-10-NO	GNS-20 GNS-20-NC GNS-20-NO
Medium	Compressed air in compliance with ISO 8573-1:2010 [7:4:4]		
Pressure range	4 ÷ 8 bar		
Temperature range	5° ÷ 60 °C		
Cutting capacity	Ø3 mm	Ø4 mm	Ø6 mm
Blade angular stroke	2x5°	2x5°	2x9°
Nipper piston bore	Ø23 mm	Ø30 mm	Ø42 mm
Closing torque at 6 bar each blade	14 Nm	34 Nm	42 Nm
Total closing torque at 6 bar	28 Nm	68 Nm	84 Nm
Cycle air consumption	6 cm ³	14 cm ³	30cm ³
Weight without blade	112 g 180 g 175 g	355 g 570 g 570 g	480 g 780 g 780 g

Dimensions (mm)

	A	B1	B2	B3	H	H1	H2	H3	H4	H5	D	L1	L2	L3	L4
GNS-05	85°	M5	18	25	21	7.5	26	38	42	48	∅4	34	18	M3	64
GNS-10	93°	M5	32	39	32	17	32	53	57	67	∅4	45	24	M4	84
GNS-20	115°	G1/8	40	48	36	15	40	62	63	73	∅4	49	30	M5	90

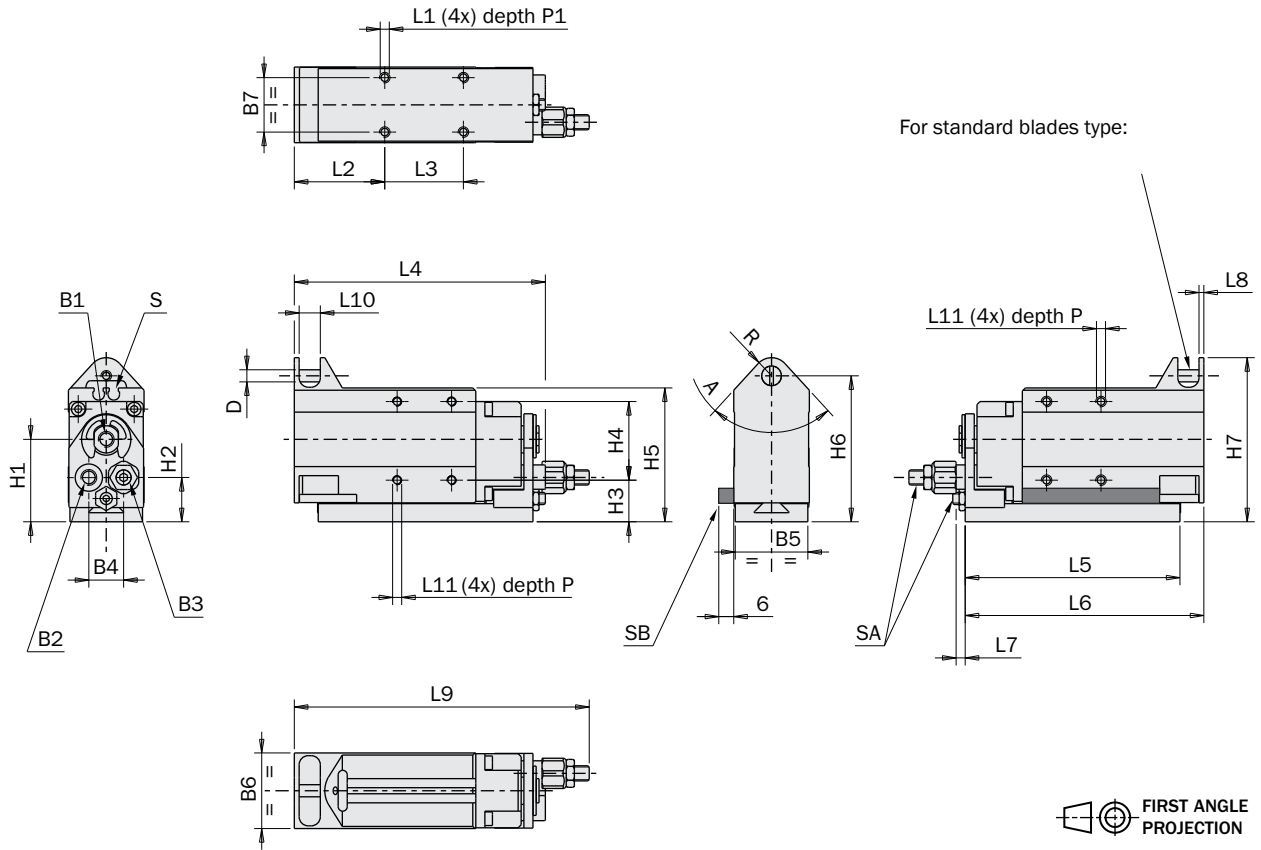
	L5	L6	L10	P	R
GNS-05	66.5	1.6	7	7	6
GNS-10	88	2	12	9	10
GNS-20	94	2	12	9	10



Dimensions (mm)

	A	B1	B2	B3	B4	B5	B6	B7	D	H1	H2	H3	H4	H5	H6
GNS-05-NC	85°	M5	M5	M5	11.5	24	25	18	∅4	27.25	14.65	13.75	26	44.25	48.25
GNS-10-NC	93°	M5	M5	M5	13	38	39	24	∅4	40.3	20.8	25.3	32	61.3	65.3
GNS-20-NC	115°	M5	G1/8	M5	20.6	47	48	30	∅4	44.3	22.8	24.3	30	70.3	71.4

	H7	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	P	P1	R
GNS-05-NC	54.25	M3	29.9	26	83	71	78.9	3	1.6	97.5	7	M3	7	6	6
GNS-10-NC	75.3	M4	36.05	32	108	90	103	4	2	122	12	M4	9	8	10
GNS-20-NC	81.3	M5	45	40	121	102	115	5	2	135	12	M5	9	8	10



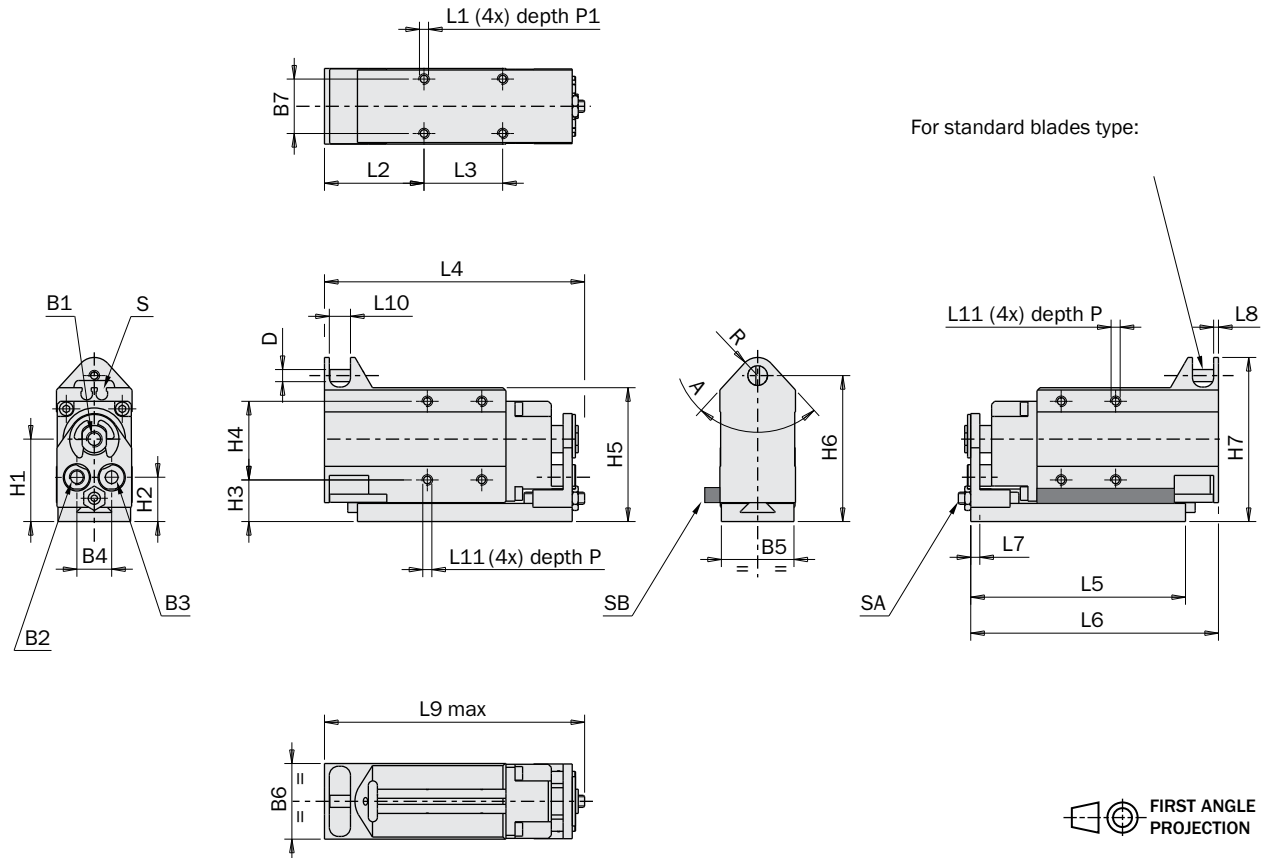
- B1** Slide opening port
- B2** Blades closing port
- B3** Slide closing port
- L1** Fastening holes
- L7** Maximun slide stroke
- S** Magnetic sensor slot
- SA** Slide stroke adjustment
- SB** Slide sensor

	GNS-05-NC	GNS-10-NC	GNS-20-NC
Slide stroke	3 mm	4 mm	5 mm
Slide bore	18 mm	20 mm	25 mm
Closing force at 6 bar on the slide	140 N	185 N	290 N
Opening force at 6 bar on the slide	115 N	130 N	240 N
Closing force at 0 bar on the slide	30 N	50 N	50 N
Opening force at 0 bar on the slide	0 N	0 N	0 N

Dimensions (mm)

	A	B1	B2	B3	B4	B5	B6	B7	D	H1	H2	H3	H4	H5	H6
GNS-05-NO	85°	M5	M5	M5	11.5	24	25	18	∅4	27.25	14.65	13.75	26	44.25	48.25
GNS-10-NO	93°	M5	M5	M5	13	38	39	24	∅4	40.3	20.8	25.3	32	61.3	65.3
GNS-20-NO	115°	M5	G1/8	M5	20.6	47	48	30	∅4	44.3	22.8	24.3	30	70.3	71.4

	H7	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	P	P1	R
GNS-05-NO	54.25	M3	29.9	26	83	71	81.9	3	1.6	86	7	M3	7	6	6
GNS-10-NO	75.3	M4	36.05	32	108	90	107	4	2	117	12	M4	9	8	10
GNS-20-NO	81.3	M5	49	40	121	102	120	5	2	129	12	M5	9	8	10

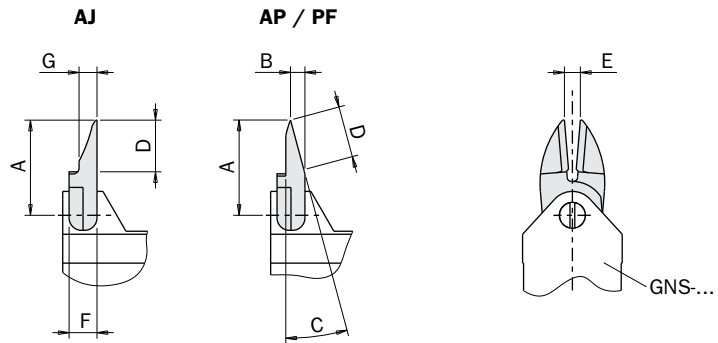
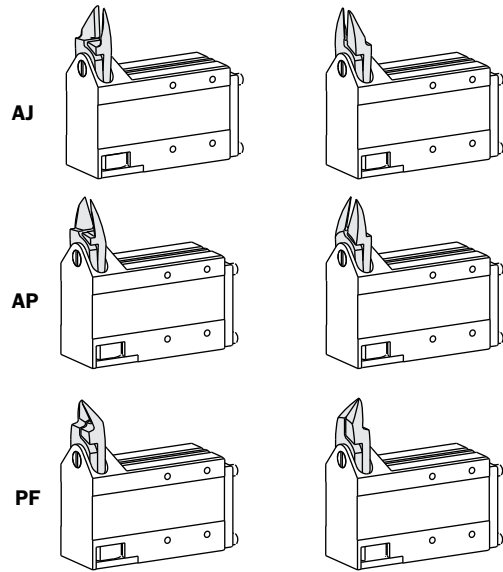
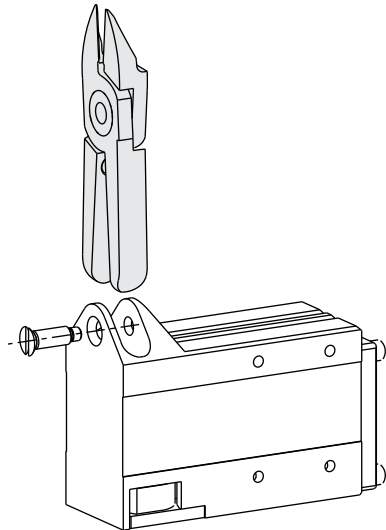
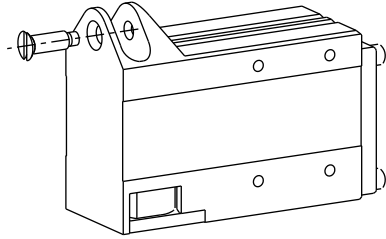
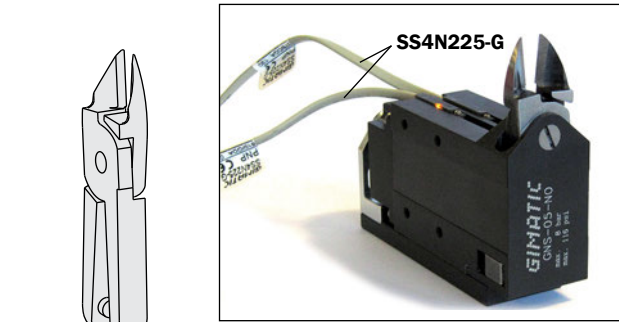


- B1** Slide opening port
- B2** Blades closing port
- B3** Slide closing port
- L1** Fastening holes
- L7** Maximun slide stroke
- S** Magnetic sensor slot
- SA** Slide stroke adjustment
- SB** Slide sensor

	GNS-05-NO	GNS-10-NO	GNS-20-NO
Slide stroke	3 mm	4 mm	5 mm
Slide bore	18 mm	20 mm	25 mm
Closing force at 6 bar on the slide	75 N	85 N	180 N
Opening force at 6 bar on the slide	180 N	230 N	345 N
Closing force at 0 bar on the slide	0 N	0 N	0 N
Opening force at 0 bar on the slide	35 N	50 N	60 N

Blades

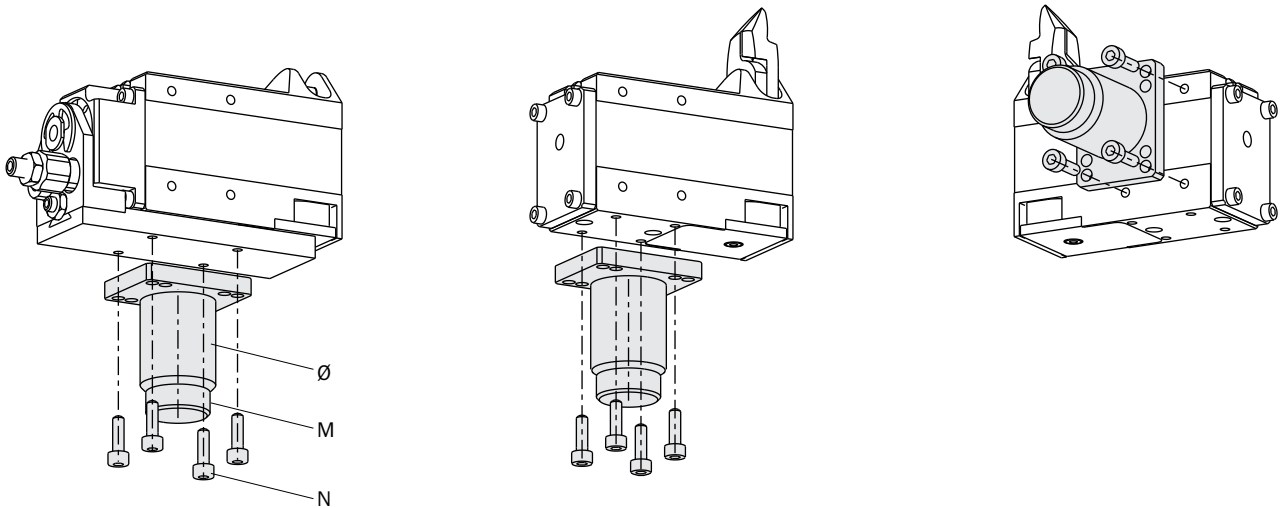
The blades can be mounted on either side.



Lame	Nipper	Blade style	A	B	C	D	E	F	G	Weight
G.N5AJ	GNS-05-...	inline	24	-	-	13	5	7	4.5	33 g
G.N5AP	GNS-05-...	standard	24	3.6	15°	11.5	4	7	-	34 g
G.N5PF	GNS-05-...	deep angle	24	7	40°	9.7	4	7	-	35 g
G.N10LAJ	GNS-10-...	long inline	35	-	-	18	6.5	12	8	117 g
G.N10LAP	GNS-10-...	long, standard	36	5.3	15°	16	6	12	-	115 g
G.N10LPF	GNS-10-...	long, deep angle	35	12	40°	13.5	5.5	12	-	112 g
G.N20AJ	GNS-20-...	inline	34.5	-	-	18	11.5	12	8	121 g
G.N20AP	GNS-20-...	standard	35	3.5	15°	16	11	12	-	120 g
G.N20PF	GNS-20-...	deep angle	35	12	40°	13.5	11	12	-	124 g
G.N20AJL	GNS-20-...	long inline	65	-	-	20	16	12	7.2	220 g

Assembly bracket

	GNS-05 GNS-05-NC GNS-05-NO	GNS-10 GNS-10-NC GNS-10-NO	GNS-20 GNS-20-NC GNS-20-NO	Ø	M	N
MFM-A107	☑			Ø20	M17x1	M3
MFM-A108		☑		Ø20	M17x1	M4
MFM-A109			☑	Ø30	M27x1	M5



Slide sensor

The two sensor slots integrated in the body (S) are used for the detection of the blade position (open or closed).
 An additional slot (SB) can be mounted externally, to enable the detection of the slide position (open or closed), if necessary.
 It is supplied in the package.

