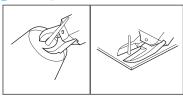


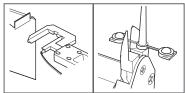
Solution Cut, grab, crimp and punch.

Cutting direct gate molded components



Cuts large diameter sprues such as garment cases, helmets, pipe joint parts, trash cans, planters. Superb durability in long term use.

Gate cutting for lenses, LGP, and transparent products



Various heated nippers prevent cracks and whitening, the decisive factor is the heating temperature of the blades and cutting speed. Supports demands for improved flexibility and high precision cutting.

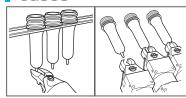
Gate cut for multiple impression molded components





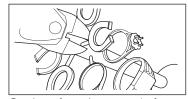
Compact, lightweight body and with a large selection of blade items, easy mounting on chuck board and standby jig. Achieves efficient cuts matching cycle

Pre-form cutting for food and drug



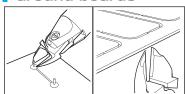
Improved efficiency in pre-forming, nippers attached to flat finish pre-form molding machine. Cut precision is linked to product quality.

Taking products from a jewelry



Cutting of precious metals for rings, necklaces etc. Superb durability and increased efficiency with powerful nipper

Cutting electronic components and around boards



Optimal handy nippers for cutting lead lines after soldering to significantly reduce wrist strain. Substrate is attached to the desktop robot....

Selection method for air nipper

Check materials

What is the "cutting target (workpiece)"?

Metal wire -Steel wire Copper wire Piano wire (not heat processed/HV320 or below), precious metals etc. Molded plastic Soft plastic (polyvinyl chloride, polyethylene) Hard plastic (acrylic, polycarbonate, ABS, etc.) Check materials, applications and work. Other applications -(Bending, caulking, punching, robotic hand, and scissors.)

Check dimensions

How big is the "size of the cut portion"?

 Angle (mm × mm) [select model by cross-section area] Metal -Round (Φ mm) Angle (mm × mm) [select model by cross-section area] Other applications -Check materials, applications and work.

Usage

What is the "state/environment of the work"?

Used mounted on automated machinery and robots.

Used for manual work.

Used mounted on a jig. And so forth

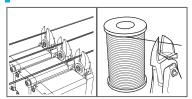
Select model

Choose a model suitable for the purpose.

Choose based on "usage and cut dimensions" for the main unit, and "material and dimensions/shape" for the blades. Refer to "product specifications" for the main unit/blade characteristics/usage, respectively. Also when selecting the machine, refer to "capability selection chart".

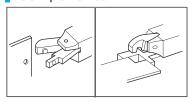
The shape/material of the workpiece may not be compatible with standard products.

Wire cutting with coil winding machine



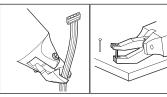
Attach to the nipper unit of automatic coil winding machine for power transformers, fan motors and ignition. Cutting thick diameter wires that cannot be

Die cutter for aluminum products and plastic components



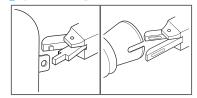
By support for separate blades, allows punching and form cutting of aluminum sash and thin plates.

Hand tools for dismantling in recycling plants



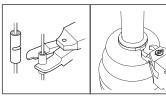
Cuts a variety of wires, copper tubing and steel bands in recycling plants such as PCs and OA equipment, pachinko machines, TVs, and refrigerators. washing machines, etc. Nippers for the purpose of pulling out the pachinko machine pins.

Punching of blow molded products, punching slotted holes



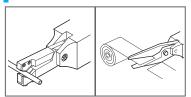
Punching blow molded products, punching slotted holes, for containers that cannot be punched and automobile ducts, etc.

Crimping task for solderless terminals



For crimping terminals with various wiring harnesses such as for switchboards, electrical products and lighting equipment. Less strain on fingers and wrists. Increased work efficiency for stop rings for auto parts.

Other applications



Micro-edge air scissors that can cut various hard-to-cut fibers, carbon, aramid fibers, and soft plastic sheets. Nippers for cutting belt loops of jeans, peeling recycled golf balls, cutting edges with textile machinery, etc.

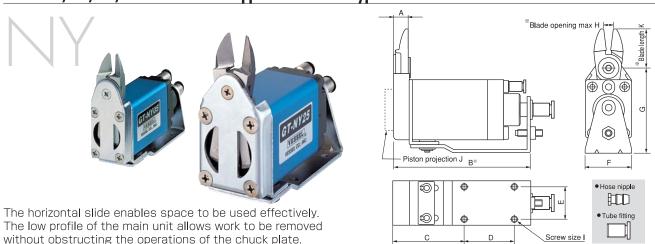
■ Capability selection chart

	Cutting	material							
Types	Copper wire	Steel wire (Non-heat treated)	Stainless steel (Non-heat treated)	Piano Wire (HV320 or below)	Soft Plastic	Hard Plastic	Solderless terminals	Application model	Air pressure (MPa)
	1.0 _{mm}	0.5 _{mm}		0.2 _{mm}	1.0 _{mm}			NS2,N3,NS3,NR3	0.4~0.5
N	1.0	0.5		0.3	2.0	1.0 _{mm}		N5,NS5,NR5	0.4~0.5
l N	1.0	0.5		0.5	3.0	2.0		N7,NS7,NR7	0.4~0.5
NS	1.6	1.0	1.0mm	0.5	4.0	2.6		N10,NS10L,NR10L	0.4~0.5
143	1.8	1.2	1.6	1.0	7.0	5.0		N12	0.4~0.5
NR	2.6	2.0	2.0	1.2	10.0	6.5		N20,NS20,NR20	0.5~0.6
''''	3.3	2.8	3.5	1.6	12.0		1.25/2.0	N30,NS30,NR30	0.5~0.6
	5.5	4.5						N50,NR50	0.5~0.6
With	2.6	1.6	1.3	1.0	5.0	4.0	12.5/2.0	P-10L	
pressure	3.0	2.2	2.8	1.2	8.0	6.0	2.0/5.5	P-20	
booster	4.8	4.0	2.8	1.2	13.0	7.0	~0.8	P-30	
	6.5	5.5	4.0	2.0				P-50	
					2.0	1.3		NY03	0.4~0.5
	1.6	1.0			3.0	2.0		NF05,NY05	0.4~0.5
NY	1.7	1.1			3.5	2.3		NF10,NY10	0.4~0.5
	1.8	1.2			4.0	2.6		NF15,NY15	0.4~0.5
					5.0	3.4		NY25	0.5~0.6
					1.5	1		NT03	0.4~0.5
NT					2.5	1.5		NT05	0.4~0.5
141					3.5	2.5		NT10	0.4~0.5
					5.0	3.4		NT20	0.4~0.5
	AS, HS,	BJ type	BBB	HS	AP, PF,	AJ type	ACD type		



Slide-off air nipper horizontal-type

GT-NY05/10/15/25 Slide-Off Air Nippers Horizontal-Type



		ity ϕ (mm)	
Soft Plastic I	Hard Plastic	Copper	Steel
3.0	2.0	1.6	1.0
3.0	2.0	1.6	1.0
3.0	2.0	1.6	1.0
3.0	2.0	1.6	1.0
3.5	2.3		
3.5	2.3		
3.5	2.3		
3.5	2.3		
4.0	2.6		
4.0	2.6		
4.0	2.6		
4.0	2.6 3.4		
5.0	3.4		
5.0	3.4		
5.0	3.4		
5.0	3.4		

Model No.				Size	(mm)							Air Consumption	n Weight	Slide Direction/	Spec. & Size of theHose Port
wodel No.	Α	В	С	D	Е	F	G	Н	- 1	J	K	(cm ³ /str.)	(g)	Distance (mm)	Spec. & Size of theriose Port
GT-NY05												48	155	Pull 0~3	W/hose nipple
GT-NY05R	0.7	75.9	40.9	25	1 5	22	47.4	4	44.4	2	22	48	155	Push $0\sim3$	Hose I.D.
GT-NY05-4	8.6	/5.9	40.9	23	15	23	47.6	4	M4	3	22	48	155	Pull 0∼3	W/tube fitting
GT-NY05R-4												48	155	Push $0\sim3$	Hose I.D.
GT-NY10												68	210	Pull 0~3	W/hose nipple
GT-NY10R	8.8	82.1	42.1	30	20	28	51.6	6	M4	5	24	68	210	Push $0\sim3$	Hose I.D. <i>ϕ</i> 2.5mm
GT-NY10-4	0.0	02.1	42.1	30	20	20	31.0	0	1714	5	24	68	210	Pull 0~3	W/tube fitting
GT-NY10R-4												68	210		Hose I.D.
GT-NY15												136	319	Pull 0~3	W/hose nipple
GT-NY15R	10.2	93	48	35	25	33	58	8	M4	5	27	136	319		Hose I.D. <i>ϕ</i> 2.5mm
GT-NY15-4	10.2	73	40	33	25	33	56	0	1114	5	2/	136	319		W/tube fitting
GT-NY15R-4												136	319		Hose I.D.
GT-NY25												184	580		W/hose nipple
GT-NY25R	12.5	108.5	54.5	40	30	42	69	9	M5	2	31	184	580		Hose I.D. <i></i>
GT-NY25-6	12.3	100.5	54.5	40	50	42	07	7	1413		JI	184	580		W/tube fitting
GT-NY25R-6												184	580	Push 0~5	Hose I.D. φ4×O.D. φ6mm

#Blade length (K) and opening max. (H) is the dimension adjusted for standard blade (AJ type).

#Air Pressure 0.5 ~0.5 MPa (NY25 type: 0.5 ~0.6) MPa (NY25 type: 0.5 ~0.6)

GT-NY03G/10G Slide-Off Air Nippers Horizontal-Type

Patented

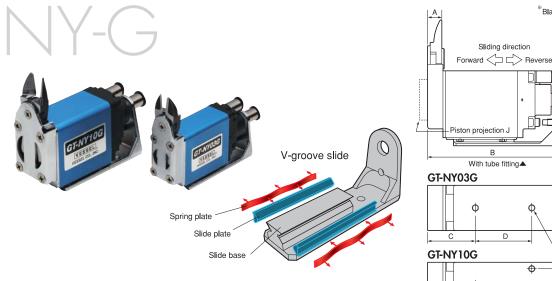
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Tube fitting

*Blade opening max H

Screw size I

Sliding direction



VESSEL's patented, V-groove slide base ensures constant, stable positioning. The unit is not subject to inclined loads

	has achieved high precision gate cutting performance.													C D Screw size I				
	y ¢ (mm) Hard Plastic	Model No.	А	В	С	Size D	(mm) E	F	G	Н	1	J	K	Air Consumption (cm³/str.)	(g)	Slide Direction/ Distance (mm)	Spec. & Size of theHose Port	
2.0	1.3	GT-NY03G												37	160	Pull 0~3	W/hose nipple Hose I.D. ϕ 2.5mm	
2.0	1.3	GT-NY03GR	8.6	74.5	29.5	20	_	19	46.5	2	M4	^	21	37	160			
2.0	1.3	GT-NY03G-4	0.0	74.5	29.3	30		17	46.5	3	1714	U	21	37	160	Pull 0~3	W/tube fitting Hose I.D. \$2.5\times O.D. \$4mm	
2.0	1.3	GT-NY03GR-4												37	160	Push 0∼3	VV/tube litting hose i.b. φ2.3/(O.b. φ4iiiii	
3.5	2.3	GT-NY10G												68	275	Pull 0~3	W/hose nipple Hose I.D. \(\phi 2.5mm \)	
3.5	2.3	GT-NY10GR	8.8	82.6	29.6	25	20	28	54	_	M4	_	24	68	275	Push $0\sim3$, ,	
3.5	2.3	GT-NY10G-4	0.8	02.0	27.0	33	20	28	54	6	<i>1</i> V\4	3	24	68	275	Pull 0~3	W/tube fitting Hose I.D. \$2.5×0.D. \$4mm	
3.5	2.3	GT-NY10GR-4												68	275	Push 0∼3	VV/tube litting Tiose i.b. φ2.5×0.b. φ4iiiii	

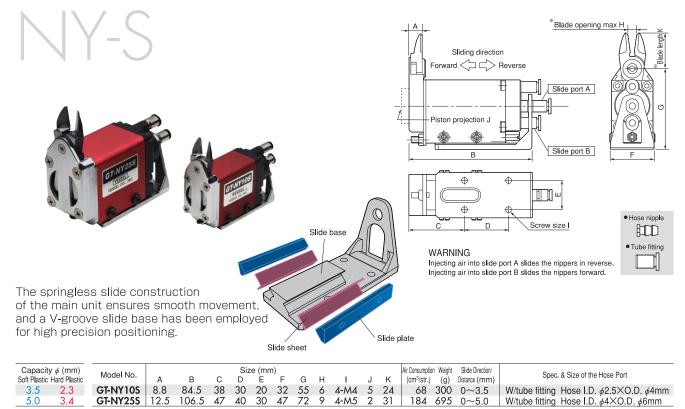
**Blade length (K) and opening max. (H) is the dimension adjusted for standard blade (AJ type). **Air Pressure…0.4~0.5 MPa **Capacity(\$\phi\$) is for reference purpose only. It varies depending on blade types.

Φ

^{*}B refers to the distance from the cut position for PUSH style models, and the distance from the start position for PULL style models. *Capacity(φ) is for reference purpose only. It varies depending on blade types.

Slide-off air nipper horizontal-type

GT-NY10S/25S Double Action Sliding Air Nippers

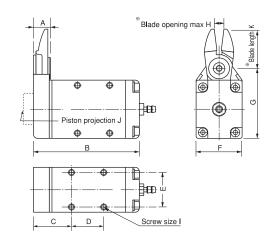


^{**}Blade length (K) and opening max. (H) is the dimension adjusted for standard blade (AJ type). **Air Pressure···NY10S: 0.4~0.5 MPa / NY25S: 0.5~0.6 MPa **Capacity(φ) is for reference purpose only. It varies depending on blade types.

GT-NF05/10/15 Type-F Air Nippers







These compact, lightweight nippers have been designed or easy mounting inside equipment and to enable secure mounting under high-density mounting conditions.

Soft Plastic	Capaci Hard Plastic	ity ¢ (mm) Copper) Steel	Model No.	А	В	С	D	Size (mm) F	G	Н	ı	J	K	Air Consumption (cm³/str.)	Weight (g)	Spec. & Size of the Hose Port
3.0	2.0	1.6	1.0	GT-NF05	8.6	59.9	21.9	17	18	23	39.5	4	M3	3	22	43	101	W/hose nipple
3.5	2.3	1.7	1.1	GT-NF10	8.8	65.1	23.1	20	22	28	43.5	6	M3.5	5	24	63	143	Hose I.D. ϕ 2.5mm \times ϕ 4mm
4.0	2.6	1.8	1.2	GT-NF15	10.2	73	25	25	26	33	48.5	8	M4	5	27	128	219	11056 1.0. φ2.511111/ φ4111111

^{**}Blade opening max. (K) is the dimension adjusted for standard blade (AJ type). Mounting screw for NF10 (M3.5) is regarded as spare part. **Air Pressure \cdots 0.4 \sim 0.5 MPa **Capacity(ϕ) is for reference purpose only. It varies depending on blade types.

Slide-off air nipper horizontal-type blades

AJ/RAJ AJB

Straight blades for plastic

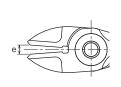
AJ/ This is a vertical set of blades with an unbeveled cutting edge. You can apply it at a right angle to the gate. **RAJ/** This is a reverse bevel of AJ type. **AJB/** This has a brazed carbide tip, suitable for cutting hard plastic or plastic containing glass fiber.

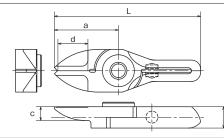


Plastic

Plastic

b







Maralal NIa				Weight	N 4 - 4 1			
Model No.	а	b	С	d	е	L	(g)	Material
NY03AJ	21	7	4.5	10.5	3	48	17	Special alloy steel
NY03RAJ	21	7	4.5	10.5	3	48	17	Special alloy steel
NY05AJ	22	7	5	10.5	4	53	22	Special alloy steel
NY05RAJ	22	7	5	10.5	4	53	22	Special alloy steel
NY05AJB	22	7	5	10.5	4	53	22	Sintered Alloy
NY10AJ	24	7.2	5	12	6	57	28	Special alloy steel
NY10RAJ	24	7.2	5	12	6	57	28	Special alloy steel
NY10AJB	24	7.2	5	12	6	57	28	Sintered Alloy
NY15AJ	27	8.2	5.5	13	8	65	41	Special alloy steel
NY15RAJ	27	8.2	5.5	13	8	65	41	Special alloy steel
NY15AJB	27	8.2	5.5	13	8	65	41	Sintered Alloy
NY25AJ	31	10	6	16	9	77	65	Special alloy steel
NY25RAJ	31	10	6	16	9	77	65	Special alloy steel
NY25AJB	31	10	6	16	9	77	65	Sintered Alloy

Application model

GT-NY03G(-4)

GT-NY03GR(-4)

GT-NY05(-4) / NF05

GT-NY05R(-4) / NF05

GT-NY05(-4) / NF05

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

GT-NY15(-4) / NF15

GT-NY15(-4) / NF15

GT-NY15(-4) / NF15

GT-NY25(-6) / NY25S

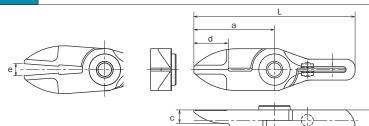
GT-NY25(-6) / NY25S

GT-NY25(-6) / NY25S

AJL

Straight long blades for plastic

AJL/ This is a long type set of straight blades. This is useful when there is distance between the nippers and the gate cut portion of the workpiece.





Model No.	а	b	Size c	(mm) d	е	L	Weight (g)	Material
NY03AJL	27	7	4.5	10.5	4	54	21	Special alloy steel
NY05AJL	31	7	5	10.5	5.5	62	29	Special alloy steel
NY10AJL	33	7.2	5	12	8	66	37	Special alloy steel
NY15AJL	38	8.2	5.5	13	11	76	50	Special alloy steel
NY25AJL	46	10	6	16	13	92	88	Special alloy steel

Application model

GT-NY03G(-4)

GT-NY05(-4) / NF05

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

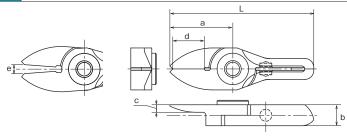
GT-NY15(-4) / NF15

GT-NY25(-6) / NY25S

AJT

Thin, straight blades for plastic

AJT/ This is a set of straight blades with a thin cutting edge. It can cleanly trim cross sections without remnants.





									+
Model No.	а	b	Size c	(mm) d	е	L	Weight (g)	Material	
NY03AJT	21	7	2.5	10.5	3	48	17	Special alloy steel	
NY05AJT	22	7	3	10.5	4	53	21	Special alloy steel	
NY10AJT	24	7.2	3	12	6	57	26	Special alloy steel	
NY15AJT	27	8.2	3.5	13	8	65	38	Special alloy steel	

Application model
GT-NY03G(-4)
GT-NY05(-4) / NF05
GT-NY10(-4) / NY10G(-4) / NF10 / NY10S
GT-NY15(-4) / NF15

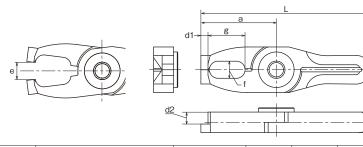
Slide-off air nipper horizontal-type blades

AD

Lift blades for plastic

Plastic

AD/ This is used for batch processing of the three-dimensional gate such as ride gate.





Model No.	а	Size (mm) b	f×g	d1 (n	d2 nm)	e (mm)	L (mm)	Weight (g)	Material
NY10AD	26.5	7.2	6×13	4.2	2.5	6	59.5	31	Special alloy steel
NY15AD	30	8.2	7×14	4.7	3	8	68	45	Special alloy steel
NY25AD	35	10	8×17	6	4	9	81	75	Special alloy steel

Application model

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

GT-NY15(-4) / NF15

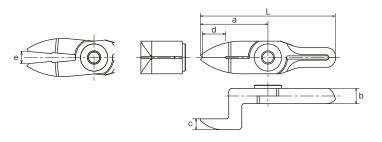
GT-NY25(-6) / NY25S

AH/ RAH

Crank blades for plastic

Plastic

AH/ This is a set of blades with a clamped cutting edge for plastic. It is effective when there are obstructions or the gate is narrow. **RAH/** This is a reverse bevel of AH type used when installing the main units face-to-face.





Model No.			Size	(mm)			Weight	Material	
Model No.	а	b	С	d	е	L	(g)	iviateriai	
NY05AH	31	19	5	10.5	5.5	62	37	Special alloy steel	
NY05RAH	30	12	5	10.5	5	61	31	Special alloy steel	
NY10AH	33	20	5	12	8	66	43	Special alloy steel	
NY15AH	38	21.5	5.5	13	11	76	63	Special alloy steel	
NY15RAH	35	13.2	5.5	13	9	73	52	Special alloy steel	
NY25AH	46	24	6	17	13	92	110	Special alloy steel	
NY25RAH	42	16	6	16	12	88	89	Special alloy steel	

Application model

GT-NY05(-4) / NF05

GT-NY05R(-4) / NF05

GT-NY10(-4) / NY10G(-4) / NF10 / NY10S

GT-NY15(-4) / NF15

GT-NY15R(-4) / NF15

GT-NY25R(-6) / NY25S

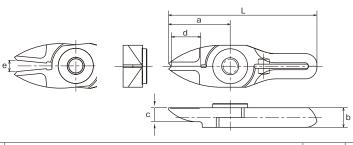
GT-NY25R(-6) / NY25S

BJ/ RBJ

Straight thin blades for metal

Metal

BJ/ This is a set of vertical blades with an unbeveled cutting edge for metal. **RBJ/** This is a reverse bevel of BJ type.



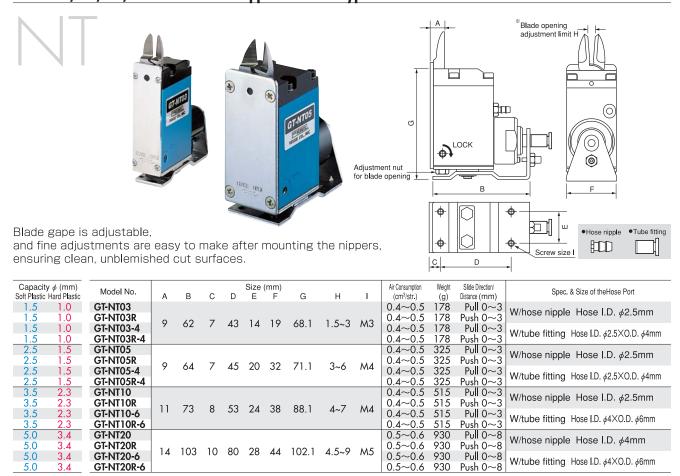


Model No.			Size	(mm)			Weight	Material	A
woder ino.	а	b	С	d	е	L	(g)	iviateriai	App
NY05BJ	22	7	5	10.5	4	53	22	Special alloy steel	GT-
NY05RBJ	22	7	5	10.5	4	53	22	Special alloy steel	GT-

Application model
GT-NY05(-4) / NF05
GT-NY05R(-4) / NF05

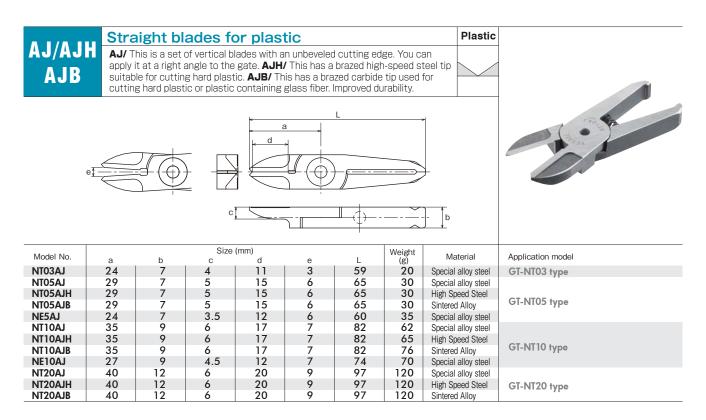
Slide-off air nipper vertical-type

GT-NT03/05/10/20 Slide-Off Air Nippers Vertical-type



[#]Blade opening adjustment limit (H) is the dimension adjusted for standard blade (AJ type). #Air Pressure…0.4 \sim 0.5 MPa #Capacity(ϕ) is for reference purpose only. It varies depending on blade types.

Slide-off air nipper vertical-type blades



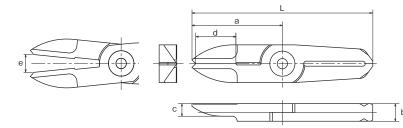
Slide-off air nipper vertical-type blades

AJL

Straight long blades for plastic

Plastic

AJL/ This is a long type set of straight blades. This is useful when there is distance between the nippers and the gate cut portion of the workpiece.





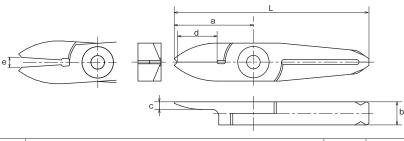
Model No.			Size	(mm)			Weight Material		Application model
woder no.	а	b	С	d	е	L	(g)	iviateriai	Application model
NT05AJL	36	7	5	15	7	72	39	Special alloy steel	GT-NT05 type
NT10AJL	47	9	6	17	9	94	62	Special alloy steel	GT-NT10 type
NT20AJL	57	12	6	20	12	114	156	Special alloy steel	GT-NT20 type

AJT

Thin, straight blades for plastic

Plastic

AJT/ This is a set of straight blades with a thin cutting edge. It can cleanly finish cross sections without remnants.





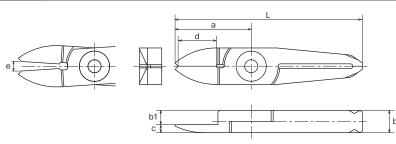
Model No.			Size	(mm)			Weight	Material	Application model
MOUEL ING.	а	b	С	d	е	L	(g)	Iviateriai	Application model
NT03AJT	24	7	2.3	11	3	59	19	Special alloy steel	GT-NT03 type
NT05AJT	29	7	3	15	6	65	29	Special alloy steel	GT-NT05 type
NT10AJT	35	9	4	17	7	82	65	Special alloy steel	GT-NT10 type

AJY

Thin, straight blades for plastic

Plastic

AJY/ This is effective when the width between the opposing gates is too short and the thickness of the blades will not go in.





				Size (mm)				Weight		
Model No.	а	b	b1	С	d	е	L	(g)	Material	Application model
NT03AJY	24	7	4.5	2.5	11	3	59	19	Special alloy steel	GT-NT03 type
NT05AJY	29	7	4.5	5	15	6	65	29	Special alloy steel	GT-NT05 type
NT10AJY	35	9	5.0	4	17	7	72	82	Special alloy steel	GT-NT10 type

Slide-off air nipper vertical-type blades

AD

Lift blades for plastic

Plastic

AD/ This is used for batch processing of the three-dimensional gate such as ride gate.

d1 a g g d2 d2 d2 b



Model No.	а	Size (mm) b	f×g	d1 (n	d2 nm)	e (mm)	L (mm)	Weight (g)	Material	Application model
NT05AD	31.5	7	6×18	3.5	2.5	6	67.5	37	Special alloy steel	GT-NT05 type
NT10AD	39	9	8×21.5	5	4	7	86	65	Special alloy steel	GT-NT10 type
NT20AD	46	12	9×24.5	7	6	9	103	141	Special alloy steel	GT-NT20 type

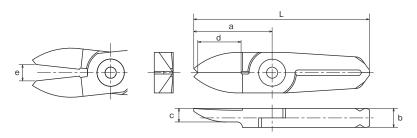
AJV

V shaped straight blades for plastic

Plastic

AJV/ This is suitable for gate processing when the cross section is curved or the cut end must not be left.







Model No.	а	b	Size c	(mm) d	е	L	Weight (g)	Material	Application model
NT05AJV	29	7	5	15	6	65	29	Special alloy steel	GT-NT05 type
NT10AJV	35	9	6	17	7	82	63	Special alloy steel	GT-NT10 type

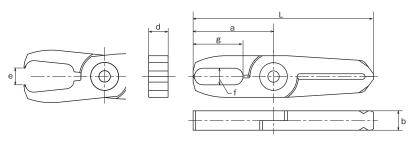
AE

Nipping blades for plastic

Plastic

AE/ Used for processing plastic gates such as ride gates and discard gates.

Plastic

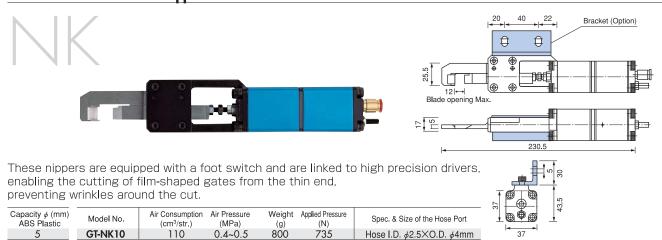




Madal No			Size (mm)			Weight	Motorial	Application model
Model No.	а	b	f×g	d	е	L	(g)	Material	Application model
NT05AE	29	7	6×18	7	6	65	36	Special alloy steel	GT-NT05 type
NT10AE	35	9	8×21.5	9	7	82	75	Special alloy steel	GT-NT10 type

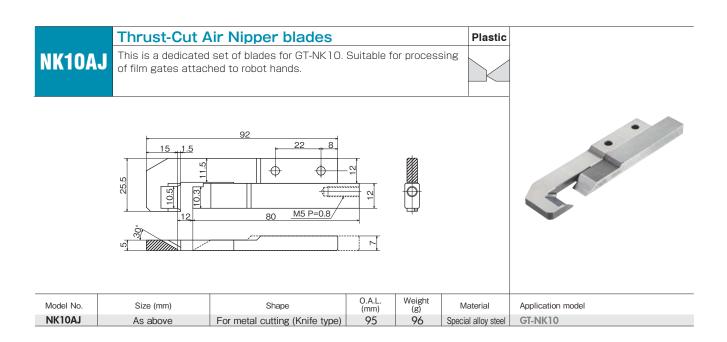
Thrust-Cut Air Nipper

GT-NK10 Thrust-Cut Air Nipper



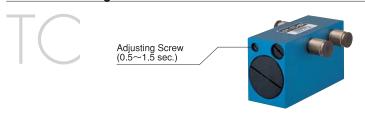
Thrust-Cut Air Nipper blades

•Hose Coupling: I.D. ϕ 4 imes O.D. ϕ 6 mm •Piston stroke···Max.12 mm



Related items

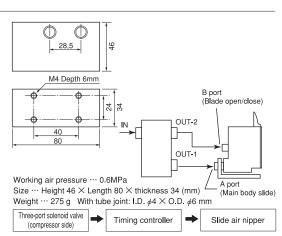
GT-TC-02 Timing Controller

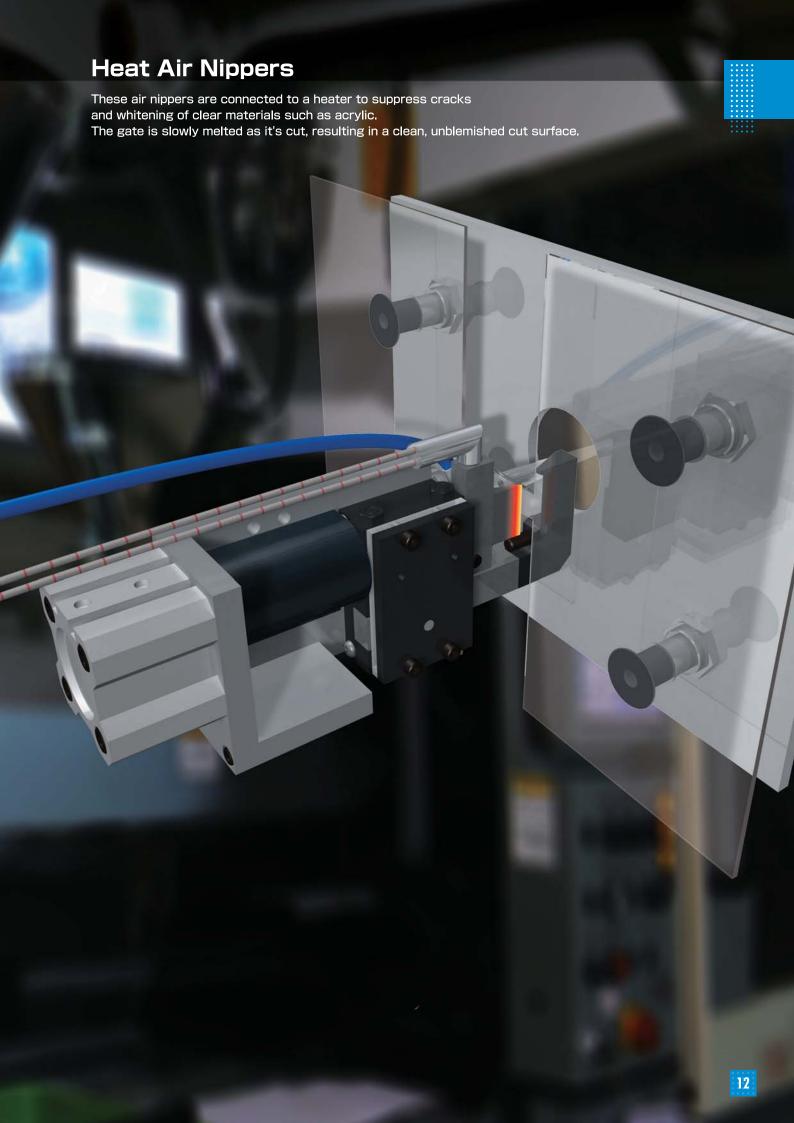


Connected between the compressor and the air nippers, the timing controller enables adjustments to the slide and cutting timing. (Approximately 0.5 seconds to 1.5 seconds)

Connectable nippers (Reference)

No. GT-	NY05	NY10	NY15	NY25	NT03	NT05	NT10	NT20	NB20	NB30	NB20LW	NB30LW
Connectable unit	4	3	1	1	6	4	2	1	2	NB30 NB20LW 1 2		1
												(pcs)





Heat Air Nippers

GT-NKH20A/20AR Heat Air Nippers (Air Hydro Type)



Air-hydro cylinders produce high power from air and oil. These units are ideal for high precision cuts required for products such as optical resin lenses.



- · Requires separately sold Hydro Controller.
- · Custom-made blade lengths and cylinder capacities available.

Model No.	Cutting Capacity φ (mm) Acril	Blade Edge Temp. (MAX ℃)	Cutting Cycle (sec/cut)	Air Consumption (cm ³ /str.)	Piston Stroke (mm)	Weight (g)
GT-NKH20A-25/20AR-25	Thickness 1.5 Width 10	180	4~5	60	10	720
In all and the automatural CO. E. O.	05 0001 00141111 (00141	4001/11 0 11				4.4000

- ·Included heater: HTL-28.5-6.25-300L 80W1H (80W/100V) Cord length300mm Recommended temp. 140°C
- •Included temperature sensor: SNO300L Thermal couple type K (Nickel-Chromium/Nickel-Aluminum) Recommended temp. 140°C Cord length 1,000mm
- •Air Pressure: 0.6MPa •Working air hose inner diameter: 4mm *200V/240V heaters are also available to order.

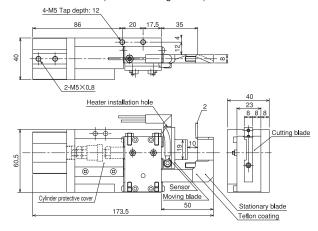
Blades Specifications

Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
Special Alloy Steel	Knife type (resin)	10	19	125

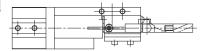
Option Parts

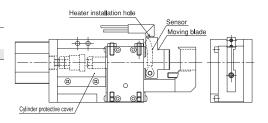
- ·Hydro-converter (Recommended: KOGANEI AHC 32×50) Working fluid: Petroleum hydraulic fluid or turbine oil with antifoaming agent additive (VG22~100)
- Temperature controller (DTC-001)

GT-NKH20A-25 (Forward-facing blades)



GT-NKH20AR-25 (Backward-facing blades)





GT-NKH10 Heat Air Nippers



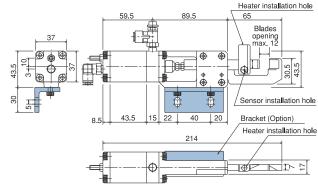
Speed control of cut speed and heater temperature allows for variable cutting surface solutions for extremely high precision cutting demands.



Model No.	Cutting Capacity φ (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Air Consumption (cm ³ /str.)	Piston Stroke (mm)	Weight (g)
GT-NKH10	Thickness 1.5 Width 7	200	4~5	73	12	715

- Included heater: 80W/120V Cord length: 300mm
- Included temperature sensor: Thermal couple type K (Nickel-Chromium/Nickel-Aluminum)
 Cord length: 1,000mm
- ·Air Pressure: 0.4~0.5MPa

Option Parts •Temperature controller (DTC-001)



Blades Specifications

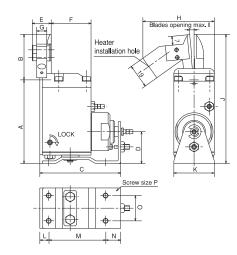
Model No.	Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
NKH10AJ/NKH10RAJ	Special Alloy Steel	Knife type (resin)	12	10	137

Heat Air Nippers

GT-NTH05/10 Heat Air Nippers (Vertical sliding type)

One blade is fixed in position, facilitating easy gate alignment. In addition, a slide function presses the product into position.





Model No.	Cutting Capacity ϕ (mm) Acril	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Air Consumption (cm³/str.)	Slide Distance (mm)	Weight (g)	Α	В	С	D	E	F	Din G	nensions	s (mm)	J	K	L	М	N	0	Р
GT-NTH05	2.5	200	4~5	47	0~3	325	66.1	36	64	25.1	15	31.5	8	56.5	3.5	102.1	32	7	45	12	20	M4
GT-NTH10	3.5	200	4~5	82	0~3	515	83	47	73	29	16.2	37.5	8	63	4.5	130	38	8	53	12	24	M4

Included heater: 80W/120V Cord length: 300mm

Blades Specifications

Model No.	Material	Blade Shape	Blade Opening (mm)	Cutting blade effective (mm)	Weight (g)
NTH05AJ	Special Alloy Steel	Nipper type (resin)	3.5	15	40
NTH10AJ	Special Alloy Steel	Nipper type (resin)	4.5	1 <i>7</i>	88

HTH type blade weight does not include heater and sensor.

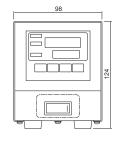
Option Parts | •Temperature controller (DTC-001)

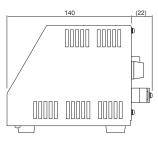
Temperature Controller

DTC-001 Benchtop Temperature Controller

The heating element can be connected directly to the main unit, a useful feature that saves labor during wiring installation. Compact construction enables the unit to be easily carried, allowing for changing the work site at any time.







Please inform us of the product number of the heat nipper when placing an order.

Model No.	Temperature range Thermocouple K	Power supply (V)	Power consumption (with 100 VAC input)	Ambient temperature and humidity	Protection fuse	Weight
	(°C)	(V)	(With 100 VAC input)	(°C)		(g)
DTC-001	0~200	AC100~240	Approx. 3W (Approx. 5VA) (With no load)	$0\sim$ 40 RH35 \sim 85% (No condensing)	One 15A fuse is incorporated.	900

**Please ensure the input voltage in prior to operation as it is directly connected to the heater.

Option Parts Power supply cable : Model No. DTC-001- --

- is necessary to be included.
- : (N/ A) Cable not necessary.
- 立: Cable for connection to the terminal block 点: 2m power cable w/ Japanese type plug (A-type)
 - 2: 2m power cable w/ European type plug (C-type)
 - : (N/ A) Cable not necessary.

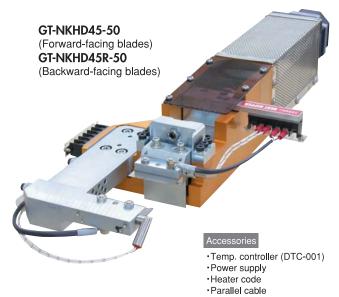
[•]Included temperature sensor : Thermal couple type K (Nickel-Chromium/Nickel-Aluminum) Cord length: 1,000mm •Air Pressure: 0.4~0.5MPa

Servo Heat Nippers

GT-NKHD20A/45 Servo Heat Nippers (With Motor Cylinder)

NKHD

Blade travel distance and speed can be easily programmed. Servo motor control enables delicate blade feeds and quiet gate cutting work.



GT-NKHD45-50

Heater 128.2

Sensor

Heater 52

Stopper Terminal board

52

40

12

40

12

52

40

12

52

40

12

52

52

52

52

52

53

62.6

64

17

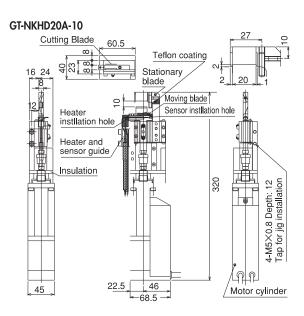
TOTAL MATEUPEN

Small type for lens cutting **GT-NKHD20A-10** (Forward-facing blades) **GT-NKHD20AR-10** (Backward-facing blades)

• ADP cable
• Controller (CTC-33)
• Power cord
• Sensor cord

Accessories

- •Temp. controller (DTC-001)
- Power supply Heater code
- ·Parallel cable
- •ADP cable
- ·Controller (CTC-33)
- ·Power cord
- Sensor cord



Model No.	Cutting Capacity $\begin{array}{c}\phi \text{ (mm)}\\\text{Acril}\end{array}$	Blade Edge Temp. (MAX °C)	Cutting Cycle (sec/cut)	Blade Opening (mm)	Position Accuracy	Max. Thrust (N)	Max. Speed (mm/s)	Positioning Points (pts)	Power Supply Voltage	Current Consumption Power Control circui	Weight (kg)
GT-NKHD45(R)-50	width24×thickness1.2	180	10	43	±0.1mm or less	500	100	16	DC24V±10%	3.0A 0.2A	5
GT-NKHD20A(R)-10	width 10×thickness 1.5	180	10	10	±0.1mm or less	100	400	16	DC24V±10%	2.0A	1.6

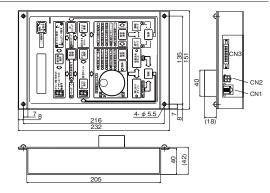
Option Parts • Temp. controller (DTC-001) • Power supply • Heater code • Parallel cable • ADP cable • Controller (CTC-33) • Power cord • Sensor cord

Special Controller (optionally available)

Controller CTC-33



Model No.	CTC-33
Sequence	41 steps
Power	Supplied by amplifier
PIO connector	Hirose HIF3BA (20PIN)
SIO connector	RS485
ADP connector	AMP 172167-1
Size (mm)	235x150x40
Weight (kg)	0.9



Features

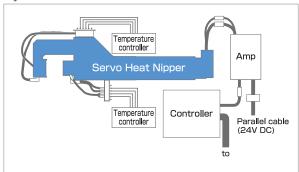
Freely Settable Blade Travel Distance and Speed Heating nippers that optimally uses the prime control features of the servomotor.

Reduces Fusing, Cracking and Bad Cuts Fine pitch feeding is possible, therefore cutting can be performed at low temperature and low speed.

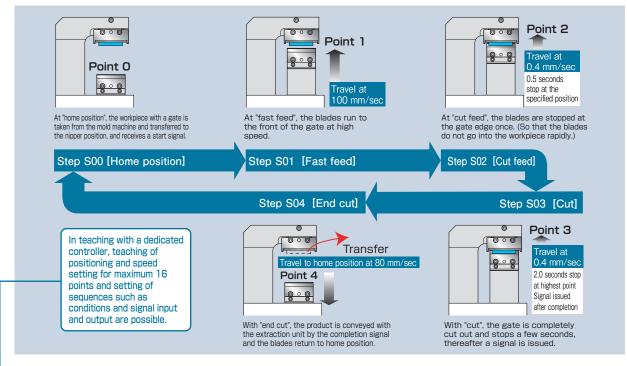
Stable Cutting

The blades are fed by servomotor control, therefore cutting quality is stable.

System Connections



Practical example of gate-cut



Practical example of input data

	Teaching content	Home position	Fast feed	Cut feed	Cut	End cut
	Point No.	0	1	2	3	4
	Positioning (*)	Home position	Leaving 7 mm	Leaving 0.5 mm	Maximum	value
Point data	Speed setting	-	100 mm/sec	0.4 mm/sec	0.4 mm/sec	80 mm/sec
	Pushing force setting	-	-	-	-	-
	Acceleration setting	1	1	•	٠	-
	Step No.	S00	S01	S02	S03	S04
	Waiting for positioning to complete	-	-	-	-	-
Sequencer data	Waiting for external input conditions	1	1	-	ı	-
	Delay timer	-	-	0.5sec	2.0sec	-
	Specified external output	-	-	-	ON	-

^(*) Input of positioning is actually done with a numerical value.

Air Nippers For Cutting and Crimping

A tough body for hard jobs.

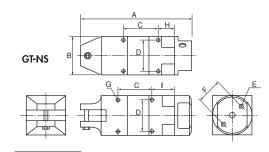
With a frame diameter range of 23mm to 75mm, this product line was developed by piston size. These models are ideal for a broad spectrum of cutting and crimping work.



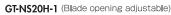
Air Nippers

GT-NS2/3/5/7/10L/20/30 Square Air Nippers

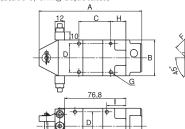
VESSEL provides a generous selection of blades for all wire cutting needs, including resin product gate cuts and automatic welding equipment.













- The main body end is 180° rotatable.
- Two suction (intake) ports are provided, and so the suction position can be optionally changed depending on the mounting place.

0.6.01		city ¢ (mm)		Model No.		_	_	_	Size (mm)	_	0			Air Consumption			Hose coupling
Soft Plastic	Hard Plastic	Copper	Steel		A	В	C	D	E	F	G	Н		(cm ³ /str.)	(MPa)	(g)	
		1.0	0.5	GT-NS2	109	20	40	16	_	_	M3 Depth4	19	24	35	$0.4 \sim 0.5$	85	
2.0		1.0	0.5	GT-NS3	110	23	40	19	M3 Depth8	17	M3 Depth3.5	19	24	45	$0.4 \sim 0.5$	95	
2.0		1.0	0.5	GT-NS5	94	30	30	24	M4 Depth10	20	M3 Depth5	14	19	64	0.4~0.5	135	
3.0	2.0	1.6	1.0	GT-NS7	113	36	30	28	M4 Depth 10	24	M4 Depth5.5	18	23	116	$0.4 \sim 0.5$	215	Rc1/8
4.0	2.6	1.8	1.2	GT-NS10L	113	36	30	28	M4 Depth10	24	M4 Depth 5.5	18	23	116	0.4~0.6	215	ICI/O
7.0	5.0	2.6	2.0	GT-NS20	129	45	40	36	M5 Depth12	30	M4 Depth7	19	24	230	0.5~0.6	370	
10.0	6.5	3.3	2.8	GT-NS30	170	56	60	46	M6 Depth12	40	M5 Depth 10	20	30	584	0.5~0.6	685	
7.0	5.0	2.6	2.0	GT-NS20H-1	129	45	40	36	M5 Depth12	30	M4 Depth7	19	24	230	0.5~0.6	455	

[·]Air hose inner dia. : 5mm ·Overall length/Weight: Accessories not included.

*Before mounting of exclusive/automatic machines, check the following product dimensions. (Frame O.D., screw dia. (screw to screw) dimensions, etc.)

*Model GT-NS50 is a special order item. Please contact VESSEL for details.

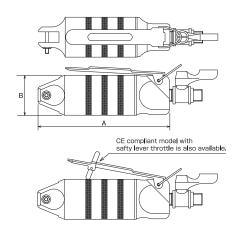
*Capacity(φ) is for reference purpose only. It varies depending on blade types.

GT-N3/5/7/10/12/20/30/50 Hand Held Air Nippers

VESSEL's special order blades provide solutions for a virtually unlimited range of needs, leading to safer, and more efficient work with less fatigue.







· N20, N30 and N50 have the air cock.

Soft Plastic	Capac Hard Plastic	ity φ (mm) Copper) Steel	Model No.	Size A	(mm) B	Air Consumption (cm ³ /str.)	Air Pressure (MPa)	Weight (g)	Body	Hose coupling
2.0		1.0	0.5	GT-N3	112	23	45	$0.4 \sim 0.5$	95	Rc1/8	
2.0		1.0	0.5	GT-N5	103	30	64	$0.4 \sim 0.5$	135	Rc1/8	
3.0	2.0	1.6	1.0	GT-N7	123	34	116	$0.4 \sim 0.5$	180	Rc1/4	
4.0	2.6	1.8	1.2	GT-N10	132	34	116	0.4~0.5	185	Rc1/4	R1/4
4.5	4.0	2.3	1.7	GT-N12	142	36	116	0.5~0.6	210	Rc1/4	K1/4
7.0	5.0	2.6	2.0	GT-N20	156	45	230	0.5~0.6	375	Rc1/4	
10.0	6.5	3.3	2.8	GT-N30	193	56	584	0.5~0.6	625	Rc1/4	
		5.5	4.5	GT-N50	237	75	1,170	0.5~0.6	1,220	Rc1/4	

[·] Hose coupling: R 1/4 · Air hose inner dia.: 5mm · Overall length: Accessories, Hunger not included. • Weight: Accessories not included. • X capacity(\$\phi\$) is for reference purpose only. It varies depending on blade types.

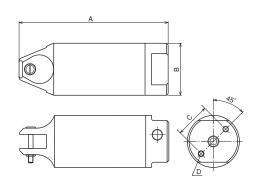
Air Nippers

GT-NR3/5/7/10L/20/30/50 Air Nipper Round-Type without Lever









- \cdot The main body end is 180 $^{\circ}\,$ rotatable.
- · Two suction (intake) ports are provided, the suction position can be optionally changed depending on the mounting plate.

Soft Plastic	Hard Plastic	Copper	Steel	Model No.	А	В	Size (mm) C	D	Air Consumption (cm³/str.)	Air Pressure (MPa)	Weight (g)	Hose coupling
2.0		1.0	0.5	GT-NR3	110	23	1 <i>7</i>	M3 Depth8	45	$0.4 \sim 0.5$	70	
2.0		1.0	0.5	GT-NR5	94	30	20	M4 Depth10	64	$0.4 \sim 0.5$	110	
3.0	2.0	1.6	1.0	GT-NR7	113	34	22	M4 Depth10	116	$0.4 \sim 0.5$	150	
4.0	2.6	1.8	1.2	GT-NR10L	113	36	24	M4 Depth10	116	$0.4 \sim 0.6$	215	Rc1/8
7.0	5.0	2.6	2.0	GT-NR20	129	45	30	M5 Depth12	230	0.5~0.6	280	
10.0	6.5	3.3	2.8	GT-NR30	165	56	40	M6 Depth12	584	0.5~0.6	505	
12.0	6.5	5.5	4.5	GT-NR50	222	75	50	M8 Depth12	1,170	0.5~0.6	1,190	

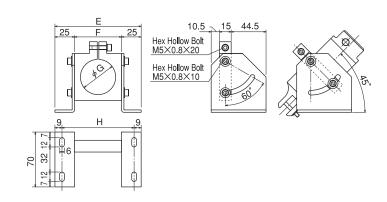
[·]Air hose inner dia. : 5mm ·Overall length/Weight: Accessories not included.

Stand

Stands for installing air nippers. The angle is easily adjustable.



Model No.	Е	Size (mm) G	Н	Weight (g)
NR10LST	102	52	36	84	335
NR20ST	110	60	45	92	385
NR30ST	130	80	56	112	535
NR50ST Option	150	100	75	132	835



P-10L/20/30/50 Powerful Intensifiers (With Extra pressure Booster)

This unit is to be used in case the originally required pressure is not obtainable by the limit of space and air pressure.







Soft Plastic	Capac Hard Plastic	ity φ (mm Copper) Steel	Application model	Model No.	Size A	(mm) B	Air Consumption (cm³/str.)	Air Pressure	Weight (g)
5.0	4.0	2.6	1.6	NS10L, NR10L, N12	P-10L	71	36	223	Up to 0.4MPa	115
8.0	6.0	3.0	2.2	N20, NS20, NR20	P-20	87	45	508	Up to 0.5MPa	215
13.0	7.0	4.8	4.0	N30, NS30, NR30	P-30	92	56	956	Up to 0.5MPa	330
		6.5	5.5	N50, NR50	P-50	133	75	2,670	Up to 0.5MPa	840

⁻Above figures of overall length and the weight are defined for the extra booster specs only. And these figures in the installation. **Capacity(φ) is for reference purpose only. It varies depending on blade types.

[%] Capacity(ϕ) is for reference purpose only. It varies depending on blade types.

Air Nippers

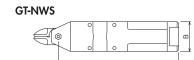
GT-NWR1/10/20/30 GT-NWS1/10/20 Double Action Air Nippers

Patented

Blade opening and closing is air piston driven. Having no spring mechanism in the main unit facilitates maintenance operations.







Model No.		cacity ϕ		Air Consumption (cm ³ /str.)		re Air Pressure (MPa)	Size	(mm) B	Weight (g)
				. ,			_ ^		(9)
Double Action	ı Air Sci	ssors	(Round	l Type wi	ithout L	ever)			
GT-NWR10	1.8	1.2	4.0	116	588	0.4~0.5	146	φ 36	280
GT-NWR20	2.6	2.0	6.5	230	1,372	0.5~0.6	165	φ 45	523
GT-NWR30	3.3	2.8	9.5	584	2,744	0.5~0.6	216	φ 56	980
Double Action	Air Sci	ssors	(Square	е Туре)				•	
GT-NWS1	1.0	0.5	2.0	45	294	0.4~0.5	95	23×20	116
GT-NWS10	1.8	1.2	4.0	116	588	$0.4 \sim 0.5$	146	36×36	356
GT-NWS20	2.6	2.0	6.5	230	1,372	0.5~0.6	165	45×45	610

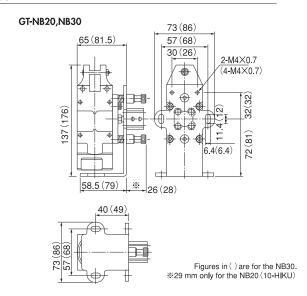
%Capacity(ϕ) is for reference purpose only. It varies depending on blade types.

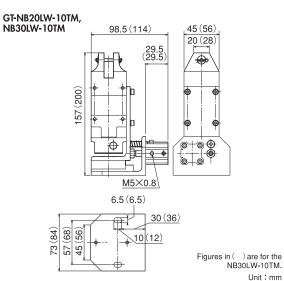
GT-NB20/30/20LW/30LW Slide-Off Air Nipper Bracket-Type

VESSEL has achieved smooth, continuous slide movement even for large diameter gate cuts, which produce a large shock at each cut.



Model No.	Size A	(mm) B	Slide Direction/ Distance (mm)	Weight (g)
GT-NB20 (5-OSHI)	59	22	Push 0∼ 5	755
GT-NB20 (5-HIKU)	61.5	27	Pull 0∼ 5	<i>755</i>
GT-NB20 (10-OSHI)	59	27	Push 0~10	755
GT-NB20 (10-HIKU)	66.5	29	Pull 0~10	<i>755</i>
GT-NB30 (10-HIKU)	77.5	28.5	Pull 0~10	1,435
GT-NB20LW-10TM	65	28.5	Pull 0~10	785
GT-NB30LW-10TM		28.5	Pull 0~10	1,315
GT-NB20LW-10SM		29.5	Push 0~10	785
GT-NB30LW-10SM		29.5	Push 0~10	1.315





Air nipper standard blades for metal

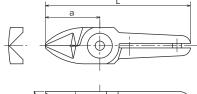
AS/HS

Standard

Metal

AS/ Standard type. This is a general set of blades used for cutting copper wire and steel wire. **HS/** Improved durability with brazed high-speed steel.









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	\Box			d 🌂					
Model No.	а	b	Size c(°)	(mm) d	е	1	Weight (g)	Material	Application model
N3AS	24	7	25	12	4	64	35	Special alloy steel	GT-N3 / NS3 / NR3
N3HS	24	7	25	12	4	64	35	High Speed Steel	GT-N3 / NS3 / NR3
N5AS	24	7	25	12	4	64	40	Special alloy steel	GT-N5 / NS5 / NR5
N5HS	24	7	25	12	4	64	40	High Speed Steel	GT-N5 / NS5 / NR5
N7AS	27	9	30	13.5	4	81	80	Special alloy steel	GT-N7 / NS7 / NR7
N7HS	27	9	30	13.5	4	81	80	High Speed Steel	GT-N7 / NS7 / NR7
N10AS	27	9	30	13.5	5	91	85	Special alloy steel	GT-N10
N10HS	27	9	30	13.5	5	91	85	High Speed Steel	GT-N10
N10LAS	35	12	30	20	5	89	120	Special alloy steel	GT-NS10L / NR10L
N12AS	35	12	30	20	5	105	135	Special alloy steel	GT-N12
N12HS	35	12	30	20	5	105	135	High Speed Steel	GT-N12
N20AS	35	12	30	20	9	95	140	Special alloy steel	GT-NS20 / NR20 / N20
N30AS	43	17	30	25	9	127	370	Special alloy steel	GT-NS30 / NR30 / N30

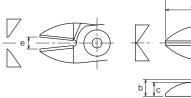
BJ

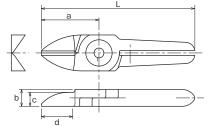
Straight blades for metals

Metal

BJ/ This is a set of vertical blades with an unbeveled cutting edge for metal.









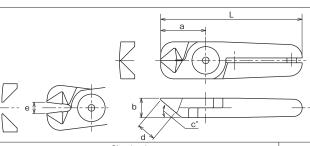
Model No.			Size	(mm)			Weight (g)	Material	Application model	
	а	b	С	а	е	L	(6)		. 1010	
NW1BJ	20	5	3	10.5	3.5	50	16	Special alloy steel	GT-NWR1 / NWS1	
N3BJ	24	7	5.8	13	5	64	35	Special alloy steel	GT-N3 / NS3 / NR3 / NS2	
N5BJ	24	7	5.8	13	4	64	40	Special alloy steel	GT-N5 / NS5 / NR5	
N7BJ	27	9	7.5	13	5	81	75	Special alloy steel	GT-N7 / NS7 / NR7	
NW10BJ	30	9	6	14	5	85	76	Special alloy steel	GT-NWR10 / NWS10	
NW20BJ	40	12	6	21.5	8	100	142	Special alloy steel	GT-NWR20 / NWS20	
NW30BJ	55	17	8	29.5	11	140	368	Special alloy steel	GT-NWR30	

AG

Powerful cutting blades

Metal

AG/ This is a set of blades with increased strength with a shorter cutting edge than the standard type. Increases the pressure because it cuts at the base of the blades.





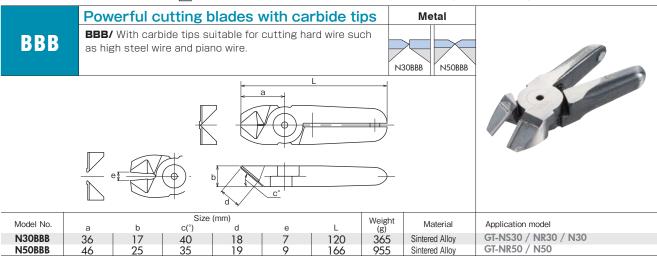
Model No.	а	b	Size c(°)	(mm) d	е	L	Weight (g)	Material	Application model	
N20AG	28	12	40	12	7	88	135	Special alloy steel	GT-NS20 / NR20 / N20	
N20HS	26	12	40	10	7	86	135	High Speed Steel	GT-NS20 / NR20 / N20	

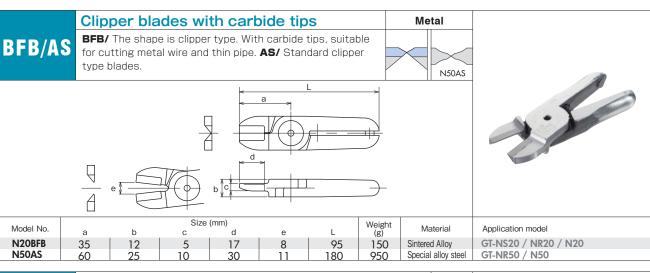
Air nipper standard blades for metal

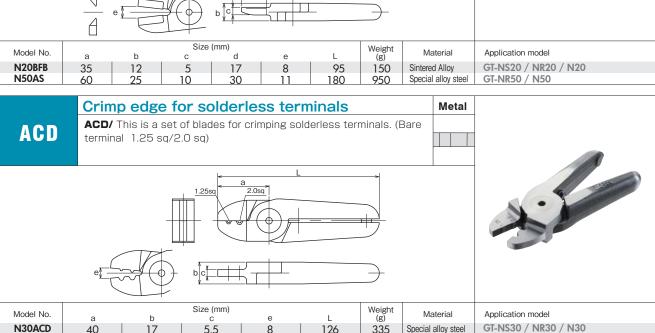
N50BBB

··· Sintered Alloy Hardest, most durable material. For cutting hard steel wire, glassfiber-reinforced resin, etc.

Sintered Alloy







Model No			Size (mm)			Weight	Material	Application model	
Model No.	a	b	С	е	L	(g)	iviateriai		
N30ACD	40	17	5.5	8	126	335	Special alloy steel	GT-NS30 / NR30 / N30	

NM Blades

NM Blades Patented

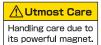


NM blades shut down the Spring breakage. Applicable to your VESSEL current air nipper. Spring replacement is no longer required as the neodymium magnet works semi-permanently.



Capacity φ (mm) Soft Plastic Hard Plastic Appl		Application model	Model No.	а	b	C (*)	Size d	(mm)	f × q	Weight (g)
7.0	5.0	GT-N20	NM20AJ	35	12		18.0	11.0	y	116
7.0	5.0	GT-NS20	NM20AP	35	12	15	16.0	11.0		124
7.0	5.0	GT-NR20	NM20AE	28	12		12.0	8.0	10×15.5	129
10.0	6.5	GT-N30	NM30AJ	52	17		28.0	11.0		360
10.0	6.5	GT-NS30	NM30AP	66	1 <i>7</i>	15	38.0	16.0		380
10.0	6.5	GT-NR30	NM30AE	45	17		17.0	12.0	13×28	358

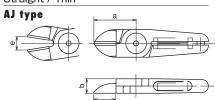
«Customization also available upon request.





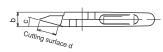
Specifications

Straight / Thin



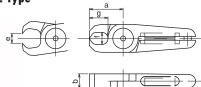
For plastic parts

AP type



Cutting-off / For plastic parts

AE type

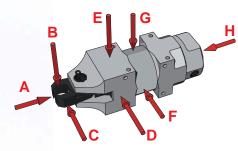


Magnetic repulsive force



Result of magnetic force measurement.

If a magnetic sensor is installed nearby for operation check, please confirm the magnetic force level in the following diagram.



Model No.	Α	В	С	D	Е	F	G	Н
NM20AE	85	10	10	5	32	5	2	0
NM30AE	34	8	8	6	42	15	30	3

Measurement unit: Gauss / Measuring device: Gaussmeter GM-1200 manufactured by DENSHIJIKI INDUSTRY Co., Ltd., Japan

Features

Ideal for around-the-clock operations

NM blades eliminate possibilities of spring breakage.

Semi-permanent magnetic force

NM blades utilize repulsion force of powerful neodymium magnet. The decrease of magnetic force is only several percent over 20 years.

Compatible with our standard nipper bodies

The sizes of NM blades are the same as those of our standard N2O, N3O blades, therefore, they can replace these previous models.

Air nipper standard blades for plastic

AP

For plastic

AP/ This is a standard set of blades used to cut plastic. A broad, gentle curve is provided in the cross section for gate processing where the cut end must not be left. (The cutting edge is curved.)



Plastic

Plastic

Plastic

a
d c°

Model No.			Weight	Material				
Model No.	а	b	c(°)	d	е .	L	(g)	ivialeriai
N3AP	24	7	15	11.5	4	64	35	Special alloy steel
N5AP	24	7	15	11.5	4	64	40	Special alloy steel
N7AP	27	9	30	11.5	4	81	80	Special alloy steel
N10AP	27	9	30	11.5	5	91	85	Special alloy steel
N10LAP	35	12	15	16	5	89	120	Special alloy steel
N12AP	35	12	15	16	5	105	135	Special alloy steel
N20AP	35	12	15	16	11	95	125	Special alloy steel
N30AP	66	17	15	38	16	150	380	Special alloy steel

Application model

GT-N3 / NS3 / NR3

GT-N5 / NS5 / NR5

GT-N7 / NS7 / NR7

GT-N10

GT-NS10L / NR10L

GT-N12

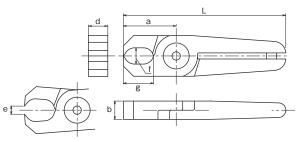
GT-NS20 / NR20 / N20

GT-NS30 / NR30 / N30

AE

Nipping blades for plastic

AE/ Used for processing plastic gates such as ride gates and discard gates.





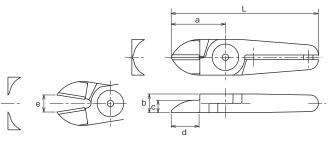
Model No.	а	b	Weight (g)	Material				
N3AE	20	7	6×11	11.5	3.5	60	35	Special alloy steel
N5AE	20	7	6× 6.6	7	3.5	60	40	Special alloy steel
N7AE	26	9	8×14.8	9	4	80	85	Special alloy steel
N20AE	28	12	10×15.5	12	8	88	135	Special alloy steel
N30AE	45	17	13×28	17	12	129	395	Special alloy steel

Application model
GT-N3 / NS3 / NR3
GT-N5 / NS5 / NR5
GT-N7 / NS7 / NR7
GT-NS20 / NR20 / N20
GT_NIS30 / NIP30 / NI30

AJ

Thin, straight blades for plastic

AJ/ This is a set of vertical blades with an unbeveled cutting edge for plastic. You can apply it at a right angle to the gate.



	u													
Model No.	а	h	Weight (g)	Material										
NW10AJ	30		С	14	e 5		76	Special alloy steel						
N20AJ	35	12	8	18	11	95	125	Special alloy steel						
N20AJB	35	12	8	18	11	95	125	Sintered Alloy						
NW20AJ	40			21.5	8		142	Special alloy steel						
N30AJ	52	17	8	28	11	136	370	Special alloy steel						
NW30AJ	55			29.5	11		368	Special alloy steel						



Application model
GT-NWR10 / NWS10
GT-NS20 / NR20 / N20
GT-NS20 / NR20 / N20
GT-NWR20 / NWS20
GT-NS30 / NR30 / N30
CT_NIWP30

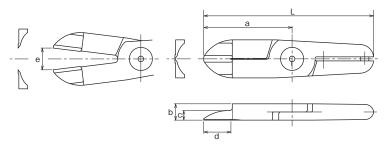
Air nipper standard/quasi-standard blades for plastic

AJL/ Quasistandard products

Straight long blades for plastic

Plastic

AJL/ This is a long type set of straight blades. This is suitable when there is distance between the nippers and the gate cut portion of the workpiece. N30AJL163 is useful for wide gate processing.





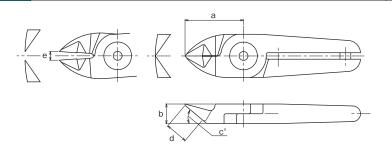
Model No.	а	b	Size	(mm)	e	L	Weight (g)	Material	Application model
N10LAJ141	61	12	7	34	10	115	165	Special alloy steel	GT-NS10L / NR10L
N20AJL	65	12	7	20	16	125	230	Special alloy steel	GT-NS20 / NR20 / N20
N20AB39	61	12	7	36	14	121	185	Special alloy steel	GT-NS20 / NR20 / N20
N30AJ163	65	17	7	41	17.5	149	355	Special alloy steel	GT-NS30 / NR30 / N30
N30AJL	75	17	8	25	19	159	470	Special alloy steel	GT-NS30 / NR30 / N30

PF

Flat blades for plastic

Plastic

PF/ This is a set of blades for cutting the cut end flat for plastic. A large R is provided in the cross section for gate processing where the cut end must not be left.





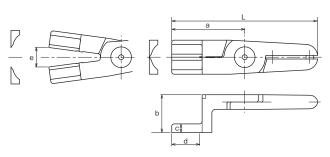
Model No.	а	b	Size c(°)	(mm)	e	Weight (g)	Material	Application model	
N7PF	27	9	40	10.5	4	81	80	Special alloy steel	GT-N7 / NS7 / NR7
N10LPF	35	12	40	13.5	5	89	120	Special alloy steel	GT-NS10L / NR10L
N20PF	35	12	40	13.5	11	95	130	Special alloy steel	GT-NS20 / NR20 / N20
N30PF	58	17	30	25	15	142	390	Special alloy steel	GT-NS30 / NR30 / N30

AH

Crank blades for plastic

Plastic

AH/ This is a set of blades with a crank cutting edge for plastic. It is effective when there are obstructions or the gate is narrow.





Model No.	_	-	Size	(mm)	_		Weight	Material	Application model
	а	D	С	a	е	L	(g)	i i i i i i i i i i i i i i i i i i i	/ ipplication model
N20AH	60	31	7	23	16	120	240	Special alloy steel	GT-NS20 / NR20 / N20

Air nipper standard/quasi-standard blades for plastic

AMR/ **AML**

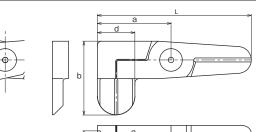
Laterally facing blades for plastics

AMR/AML This is a set of blades for plastic where the ML cutting edge is bent 90 degrees. It is useful when restricted to confined spaces hard for the nipper to get into.



Plastic

Plastic





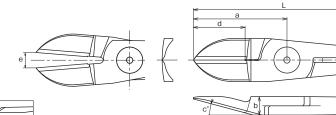
Model No.			Size	(mm)	Weight	Material	Application model		
woder ivo.	а	b	С	d	е	L	(g)	iviateriai	Application model
N20AML1498	55	55	8	26	9.5	115	270	Special alloy steel	GT-NS20 / NR20 / N20
N20AMR1499	55	55	8	26	9.5	115	270	Special alloy steel	GT-NS20 / NR20 / N20

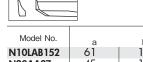
Quasistandard products

R blades for plastic

A large R is provided in the cross section for gate processing where the cut end must not be left. An angled blades can be selected in accordance with the installation angle of the main unit.







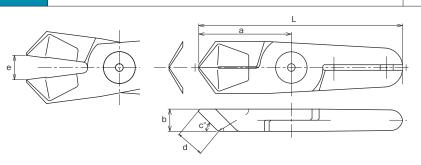
Model No.	а	b	Size c(°)	(mm) d	е	L	Weight (g)	Material
N10LAB152	61	12	15	35	10	115	165	Special alloy steel
N20AA27	45	12	23	25	12	105	145	Special alloy steel
N20AA239	52.3	12	40	27	14	112.3	195	Special alloy steel
N20AB360	61	12	15	35	16	121	185	Special alloy steel
N30AA114	76.3	17	30	50	20	160.3	385	Special alloy steel

Application model
GT-NS10L / NR10L
GT-NS20 / NR20 / N20
GT-NS20 / NR20 / N20
GT-NS20 / NR20 / N20
GT-N30 / NS30 / NR30

Quasistandard products

Angled nipping blades for plastic

AE/ Used for processing plastic gates such as ride gates, discard gates. The cutting edge is angled so that the main unit can set up diagonally.





Model No. N20AE19 N30AE53			Size	(mm)			Weight	Motorial	Application model
	а	b	c(°)	d	е	L	(g)	Material	
N20AE19	50	12	45	13	13	110	200	Special alloy steel	GT-NS20 / NR20 / N20
N30AE53	65	17	65	18.5	16	149	440	Special alloy steel	GT-NS30 / NR30 / N30

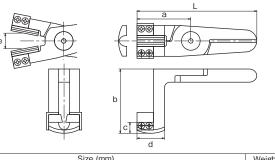
Air nipper quasi-standard blades for plastic

Quasistandard products

Comes with sprue chuck function 1

Plastic

Mainly in gate processing for direct gates, the sprue is caught with urethane rubber. A large R is provided in the cross section for gate processing where the cut end must not be left.





Application model GT-N20 / NS20 / NR20

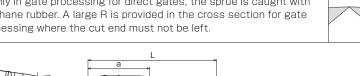
Model No.		h	Weight	Material				
N20AH533	49	58.5	10	25	14	109	(g) 280	Special alloy steel
						-		

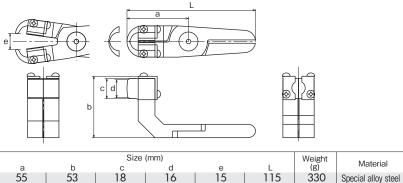
Quasistandard products

Comes with sprue chuck function 2

Plastic

Mainly in gate processing for direct gates, the sprue is caught with urethane rubber. A large R is provided in the cross section for gate processing where the cut end must not be left.







Application model	
GT-N20 / NS20 / NR20	

Quasistandard products

Model No.

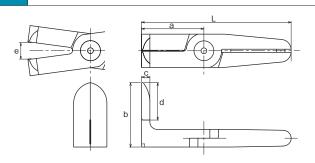
N20AH152

L blades for sprue cut

Plastic

Material

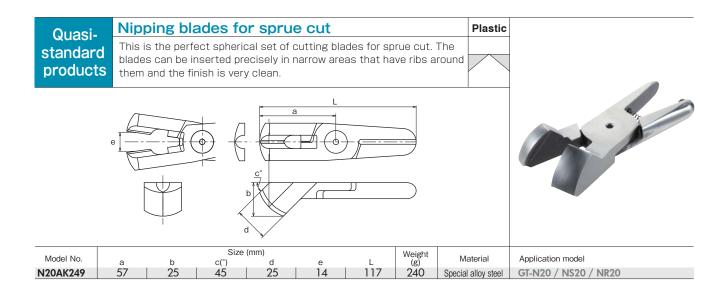
This is an angled long type straight set of blades with a 90-degree angle. Ideal for direct gate cut.





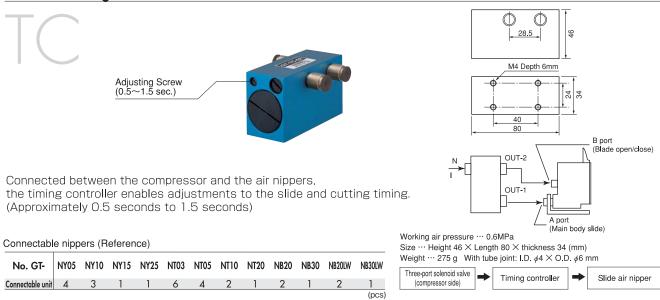
Maralal Nia			Size	(mm)			Weight	Makanial	Anadia atian mandal
Model No.	а	b	С	d	е	L	(g)	Material	Application model
N30AL525	60	62	8	36	16	144	520	Special alloy steel	GT-N30 / NS30 / NR30

Air nipper quasi-standard blades for plastic



Related items

GT-TC-02 Timing Controller



Air Nipper Troubleshooting

Inspection items when a malfunction occurs during use

1. Blades or slide not working properly. Air is not being supplied The hose is twisted Low air pressure Corrosion, wear, or contamination of sliding part of the blades Lubrication/disassembly adjustment	
Low air pressure Air pressure adjustment	
Corrosion, wear, or contamination of sliding part of the blades Lubrication/disassembly adjustmen	
	1
Sliding parts burned by heat (heat nipper) Component replacement	:
Broken blade spring Component replacement	:
Broken return spring Component replacement	
Broken blades Replace blades	
Wear of the cutting unit/rivet Replace blades	
2. Air leakage Valve malfunction/wear, damage (0-rings, ball valves, etc.) Component replacement	:
Packing is broken Component replacemen	1

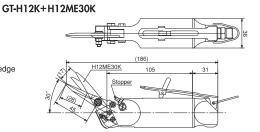
Air Scissors

GT-H12K/H30/H120K/HS30 Air Scissors

Two types of blades, standard and micro-edge, are available for use in accordance with the demands of each specific job.

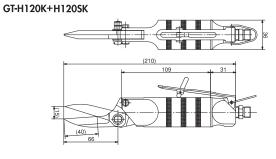


Enlarged view of blade edge





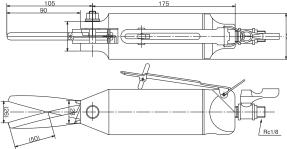
 $\textbf{GT-H12K} \;\; \textbf{Small lightweight type with single stationary blade}$





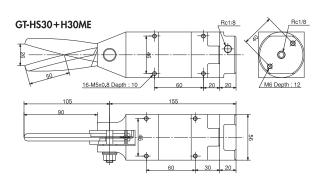
GT-H120K Single stationary blade specification

GT-H30+H30ME





GT-H30 Double movable blades





GT-HS30 Double movable blades

GT-HR120K (Special Order)+H120SK

Model No.	Capacity (max) (mm)	Air Consumption (cm ³ /str.)	Applied Pressure (MPa)	Overall Length (with Blade) (mm)	Weight (with Blade) (g)
GT-H30	Kevlar t=1	584	0.3	280	1,030
GT-H12K	Kevlar t =0.3	116	0.2	186.2	290
GT-H120K	Band steel 15×0.5	116	0.5~0.6	211	340
GT-HS30	Kevlar t=1	584	0.3	260	970
GT-HR120K (Special Order)	Band steel15×0.5	116	0.5~0.6	211	310

[•]Hose coupling: R 1/4(Body Rc 1/8) •Air hose inner dia. : 5mm

Rc1/8

Blades specifications

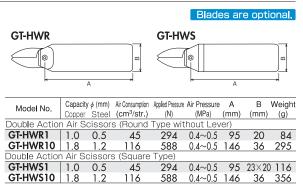
Model No.	Applicable Nippers	Blade Shape	Blade Aperture (mm)	Effective Blade Length (mm)	Weight (g)				
H30ME	H30,	Scissors type Serrated micro edge	26	50	280				
H30MEL	HS30		34	67	285				
H12ME30K	H12K		1 <i>7</i>	28	56				
H120SK	H120K	Scissors type	15	38	115				

[•]Overall length/Weight: Accessories not included. •Total length and weight of the GT-HS30 and HS30 are given with the H30ME blade mounted.

HVVR·HVVS

Blade opening and closing is air piston driven. Having no spring mechanism in the main unit facilitates maintenance operations.





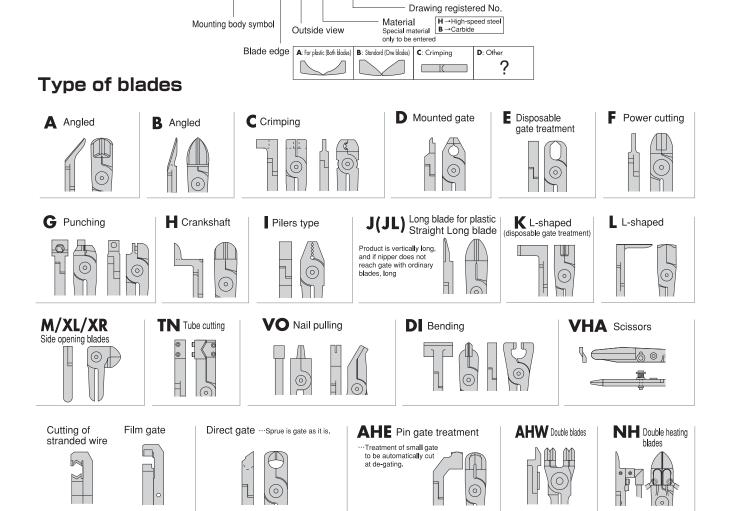


Custom-made blades

Vessel customizes blades for a wide variety of uses.

Custom-made blades are available at low cost, speedy delivery and guaranteed flexible adaptation to a wide range of work. See the below examples. Orders are accepted from 1 up.

No. NY10 A E H 15



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