

Cutting Material		Processed Product Example	Features	Standard Selection	Focus on Sharpness	Focus on Life time
				Most Standard Selected Varieties	Selected Varieties that Prioritize Sharpness over Standard Selection	Selected Varieties that Prioritize Cutting Wheel Life over Standard Selection
Hardness 100 200 HV	General Carbon Steel (S-C) Tool Steel (SK) Mild Steel (SS)	Rolled steel material, bolt, nut, file, engraving, clutch, general steel material, pipe, wire, rasp, drill, punch, tool, press die, gauge, stamp, snap, extrusion pin for die, various springs	Commonly called "green wood," it is suitable for rolling steel for general structures. The cost performance for 31-P is excellent for the SS-31 and Birdie II models.	A100P	A100N	HA80P
				31-P	31-N	HA80P
Hardness 100 400 HV	Alloy Tool Steel (SKS) Die Steel (SKD) Quenched items such as spring steel (SUP) Heat Resistant/Oxidation Resistant Steel	Tool, drill, quenched die, gauge, punching spring, torsion bar, spring, bellows, fastener, boiler tube, round saw, die casting type, extrusion tool, casting mold, press die, mechanical parts, high temperature corrosion resistant bolt, metallic foil for electron microscopy	Has a relatively wide defensive range, and is suitable for quenched products from general carbon steel. The cost performance for 31-N is excellent for the SS-31 and Birdie II models.	A100N	HA100J	A100P
				31-N	HA100J	31-P
Hardness 300 750 HV	High-hardness hardened products such as special steel (SNCM) and high speed steel (SKH), high-strength steel super heat resistant alloy (Ni group, Fe group, Co group)	Crankshaft, shift knob, engine parts, bicycle frame, muffler for automobile / motorcycle, cutting tool, hard material cutting tool, ship, bridge, petrochemical parts, parts for heat treatment furnace, turbine blade, pressure vessel, medical equipment, high temperature bolt, thermocouple protection tube	Using sharpness as a priority, it's suitable for high-hardness quenched products, and nickel alloy steel.	HA100J	-	NA100J WA100R HA80P
				Including the materials above, it has a wide application range, and is excellent in durability. It's ideal for cutting macromolecular materials with a relatively large diameter, such as SCM, SKD, SUS.		
Tungsten, stainless steel, kovar		Cutlery, work tool, railway car, IC lead frame, electric parts	It is suitable for solid materials with a relatively small diameter, such as tungsten and stainless steel.	Stainless Steel A HA80P NA80P 31-A WA100R WA220R	- Stainless Steel A,HA100J NA100J 31-N,A100N HA100J WA100R	- - Stainless Steel A HA80P - -
Normal casting (FC), magnet steel, malleable cast iron, ductile		Engine parts, bicycle frame, motorcycle brake disk, spring, nut, bolt, medical equipment, steam turbine, general scientific equipment, kitchen utensils, construction, building, vehicle, heat exchange	Suitable for nonmetal and nonferrous metal cast iron materials.	AC100J	-	-
Titanium, titanium aluminum, super heat resistant alloy (Ni group, Fe group, Co group), heat/oxidation resistant steel, nickel-cobalt alloy, tungsten, molybdenum, bakelite, rock, ceramics (alumina, magnesia, zirconia), composite materials (carbon fiber, glass fiber), quartz, high-purity quartz, hard glass, general soda glass, resin (phenol, epoxy, melamine, other), boron		Muffler for automobile/motorcycle, shift knob, turbocharger, automobile interior parts, high temperature corrosion resistant bolt, spring, bellows, fastener, petrochemical parts, parts for heat treatment furnace, turbine blade, pressure resistant container, gas turbine combustion cylinder, nitric acid production plant, high-heat heat exchanger, turbine parts for aircraft parts jet engines, compressors, ships and vehicles, electronic and electric parts, industrial plants, marine and space development, thermocouple protection tubes, medical materials, golf clubs, cameras, clocks, glasses, cemented carbide tools, incandescent lamps, filaments of electron tubes, lighting equipment, for embedding test specimens, connectors, glass processed products (syringe tube)	Suitable for cutting nonferrous metals such as titanium and aluminum alloys. Please choose the binding degree according to the material hardness.	GC100N GC150N GC150L GC150H	GC150N GC150L GC150H TC-2	GC100P GC100P GC150N,GC100P GC150L,GC150N,TC-2
Stainless steel, copper alloy, magnesium alloy, tungsten, cobalt, nickel alloy, molybdenum, kovar, precious metals such as gold, silver and platinum, lithium, various precision pipes, thin pipes		Automobile wheel, steering wheel, seat frame, mechanical parts, chemical industry, ships, gears, connectors, welded pipe for gas piping, tube plate for heat exchanger, catalytic gas purification device, gasket, clock parts, wiring instruments, switch, relay, conductive hard material, contact material, dentistry alloy, injection needle, wire, jewelry accessories, small articles, musical instruments, hard tool material, batteries, personal computers, hard disk, camera, mobile phones	Ideal for cutting within the burrs on the cut surface, such as thin-walled pipes of stainless steel with detailed abrasive grain eyes, and small diameter wire of tungsten/cobalt.	GC320R	Stainless Steel B GC400L	GW320R

(Inner Diameter 31.75 mm - 1 box, 25 wheels)

Processed Product Example
Rolled steel material, bolt, nut, file, engraving, clutch, general steel material, pipe, wire, rasp, drill, punch, tool, press die, gauge, stamp, snap, extrusion pin for die, various springs
Tool, drill, quenched die, gauge, punching spring, torsion bar, spring, bellows, fastener, boiler tube, round saw, die casting type, extrusion tool, casting mold, press die, mechanical parts, high temperature corrosion resistant bolt, metallic foil for electron microscopy
Crankshaft, engine parts, bicycle frame, cutting tools, automobiles, ships, bridges, various tools for general cutting, difficult cutting materials, petrochemical parts, petrochemical parts, parts for heat treatment furnaces, turbine blades, mufflers for automobiles and motorcycles, heat-resistant containers, medical equipment, shift knob high temperature bolt, thermocouple protection tube
Engine parts, bicycle frame, motorcycle brake disk, spring, nut, bolt, medical equipment, steam turbine, general scientific equipment, kitchen utensils, construction, building, vehicle, heat exchange
Blades, work tool, railway car, IC lead frame, electric parts
Engine parts for automobiles, machine tools, construction machinery, diesel engines for ships, cast iron tubes
Muffler for automobile/motorcycle, shift knob, turbocharger, automobile interior parts, high temperature corrosion resistant bolt, spring, bellows, fastener, petrochemical parts, parts for heat treatment furnace, turbine blade, pressure resistant container, gas turbine combustion cylinder, nitric acid production plant, high-heat heat exchanger, turbine parts for aircraft parts jet engines, compressors, ships and vehicles, electronic and electric parts, industrial plants, marine and space development, thermocouple protection tubes, medical materials, golf clubs, cameras, clocks, glasses, cemented carbide tools, incandescent lamps, filaments of electron tubes, lighting equipment, for embedding test specimens, connectors, glass processed products (syringe tube)
Automobile wheel, steering wheel, seat frame, mechanical parts, chemical industry, ships, gears, connectors, welded pipe for gas piping, tube plate for heat exchanger, catalytic gas purification device, gasket, clock parts, wiring instruments, switch, relay, conductive hard material, contact material, dentistry alloy, injection needle, wire, jewelry accessories, small articles, musical instruments, hard tool material, batteries, personal computers, hard disk, camera, mobile phones

NASTON Cutting Wheel H Series

(Inner Diameter 25.4 mm - 1 box, 25 wheels)

Product Number	Dimensions (mm) Outer Diameter x Thickness	Code No.	Dimensions (mm) Outer Diameter x Thickness	Code No.	Materials to be Cut
H-10	205 x 0.5	H10-20505	230 x 0.6	H10-23006	General Steel Materials
H-12	205 x 0.5	H12-20505	230 x 0.6	H12-23006	Heat-Treated Materials, Special Steel
H-15	205 x 0.5	H15-20505	230 x 0.6	H15-23006	General Non-ferrous Materials
H-22	205 x 0.5	H22-20505	230 x 0.6	H22-23006	Copper, Brass, Stainless Steel
H-32	205 x 0.5	H32-20505	230 x 0.6	H32-23006	Stainless Steel, Tungsten, Molybdenum
H-40	205 x 0.5	H40-20505	230 x 0.6	H40-23006	General Non-Ferrous Materials, Precious Metals Such as Gold, Silver

For Former Dry-Type Birdie Model (Inner Diameter 25.4 mm - 1 box, 25 wheels)

Product Number	Dimensions (mm)	Code No.	Grinding Material
Naston A	160 x 0.7	BDA-16007	General Carbon Steel/Tool Steel
Naston B	160 x 0.7	BDB-16007	Resin/Bakelite
Naston C	160 x 0.7	BDC-16007	Copper/Brass/Stainless Steel

For Former S-2 Model (Inner Diameter 6 mm - 1 box, 50 wheels)

Product Number	Dimensions (mm)	Code No.	Grinding Material
A100P	75 x 0.5	A100P-07505	General Carbon Steel/Tool Steel
GC150P	75 x 0.5	GC150P-07505	Resin/Bakelite
WA120P	75 x 0.5	WA120P-07505	Copper/Brass/Stainless Steel

For S-5 Model/Former MM-G Model (Inner Diameter 10 mm - 1 box, 50 wheels)

Product Number	Dimensions (mm)	Code No.	Grinding Material
A100P	90 x 0.5	A100P-09005	General Carbon Steel/Tool Steel
GC320P	90 x 0.5	GC320P-09005	Stainless Steel, Resin, Precious Metals such as Gold, Silver
WA120P	90 x 0.5	WA120P-09005	Copper/Brass/Stainless Steel

End Surface Polisher Segment Grindstone for Fine Limiter

Product Number	Finished Surface	No. of Sheets	Code No.	Grinding Material
Mid-Level	Mid-Finish	6-Pack	B-6-6	For a wide range of precision grinding such as hard and soft iron alloy cast iron and stainless steel, etc., and for difficult grinding of tool steel, die steel, hardened alloy steel
		8-Pack	B-6-8	
Detailed	Top-Finish	6-Pack	B-12-6	
		8-Pack	B-12-8	