NUSHARP™
A cutting edge supplier

EASE SHEARS

NUSHARP™
A cutting edge supplie

CRAFTED FOR PROFESSIONALS

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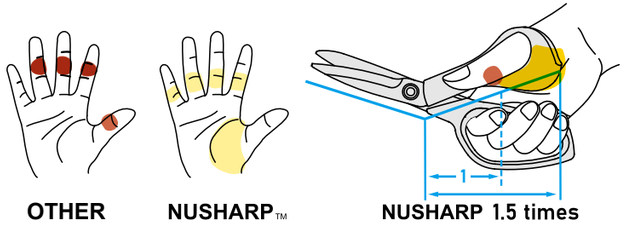


OTHER **NUSHARP**™ **NUSHARP 1.5 times**

NATURAL FIT PERFECT FORCE

The force application area of the thenar region differs from single-point pressure applied by the thumb alone. With contact area over four times larger, it significantly reduces hand fatigue, enhances comfort, and effectively improves work efficiency.
It also engages the proximal knuckle area of the four fingers, enabling greater control and efficiency when cutting through heavy materials.

Extended Leverage Arm for Greater Efficiency

Traditional scissors rely on the first joint of the thumb to apply force, limiting both power and comfort. Our redesigned handle shifts the pressure point to the thenar region — the palm's strongest area — while extending the leverage arm by 1.5 times. This results in up to 33% less effort required during use, providing enhanced cutting power with reduced hand fatigue.

HIGHLY EFFICIENT

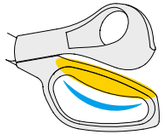
Engineered through iterative refinement, the handle's contour directs force through the thenar eminence — the palm's most efficient pressure point — for enhanced power and reduced effort.
This innovation redefines what ergonomic design can achieve.

HANDLE

The lower handle offers more space to comfortably accommodate four fingers, ensuring a secure grip without pressure or discomfort.

RAISED CONTOUR

The raised contour allows all four fingers to fit snugly along the handle, enhancing comfort during use.



WIDENED GRIP AREA

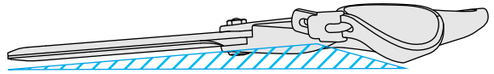
A broader gripping surface reduces the amount of force required and minimizes hand fatigue.

GRAB AND CUT

Always Ready, Effortlessly Precise

The handle is designed for immediate action, no need for adjustments. The moment you pick it up, you are ready to cut. Every curve, every contour of the handle has been purposefully engineered to guide your fingers fall naturally into place, positioning your hand perfectly for cutting.

This refined ergonomic detail minimizes unnecessary movements and maximizes efficiency, especially during repetitive tasks. It's a seamless experience that turns routine into precision.



PRECISION IN EVERY CUT

The guided handle design secures the thumb in a fixed position, while the lower handle is controlled by four fingers allowing for highly accurate cutting direction.This stable grip ensures precise alignment, centered movement, and unwavering control with every use.

SELECTION OF MATERIALS

Element / Steel	C %	Si ≦ %	Mn ≦ %	P ≦ %	S ≦ %	Ni ≦ %	Cr %	Mo %	V %	Co %
SUS 420J2	0.26~0.40	1	1	0.040	0.030		12~14			
	A martensitic stainless steel with **0.3% carbon content**, offering a hardness range of **52-55 HRC**. This material provides a balance of excellent hardness and wear resistance, making it well-suited for general industrial cutting applications. It demonstrates stable edge retention, ideal for cutting common materials such as textiles, plastics, and packaging. As an entry-level steel, it offers reliable performance for industrial scissors designed for long-term use under standard operating conditions.									
DIN 1.4034	0.43~0.50	1	1	0.045	0.030		12.5~14.5			
	Containing **0.4% carbon content** and a hardness range of **56-58 HRC**, this steel offers superior edge retention and wear resistance compared to 420J2. The enhanced hardness and improved toughness make it optimal for applications requiring higher cutting performance. It is particularly suited for industrial scissors used in medium-strength cutting tasks, providing durability and consistent performance over extended periods of use. This upgraded steel is ideal for environments where precision and long-lasting sharpness are essential.									
DIN 1.4116	0.42~0.48	1	1	0.040	0.030		13.8~15.0	0.45~0.60	0.10~0.15	
	With **15% chromium content** and the addition of molybdenum (Mo) and vanadium (V), this high-grade steel achieves a hardness of 56-58 HRC. It is characterized by exceptional **corrosion resistance**, making it ideal for use in humid or highly corrosive environments. The fine-grained microstructure and high hardness allow it to maintain sharpness for extended periods, ensuring excellent cutting performance. Due to its superior edge retention and durability, it is the material of choice for high-end industrial scissors that require optimal performance in demanding cutting tasks and complex materials.									

Influence of Alloying Elements on Steel Microstructure

C	• Carbon is the single most important alloying element in steel. • The hardenability of steel is increased by the addition of more carbon, up to about 0.6%. Wear resistance can be increased in amounts up to 1.5%. Beyond this amount, increases of carbon reduce toughness and increase brittleness.
Cr	• As with Mn, chromium has a tendency to increase hardness penetration. • Chromium also increases the toughness of steel, as well as the wear resistance. • Probably one of the most well known effects of chromium on steel is the tendency to resist staining and corrosion. • Steel with 12% or more chromium are referred to as stainless steels.
Mo	• Molybdenum increases the hardness penetration of steel, slows the critical quenching speed, and increases high temperature tensile strength. • Since molybdenum tends to minimize temper brittleness and reduce mass effect, Ni-Cr-Mo steel is widely used for large articles. • It is also a constituent in some high-speed steels, magnet alloys, heat-resisting and corrosion-resisting steels.
V	• Vanadium acts as a scavenger for oxides, forms a carbide V, C, and has a beneficial effect on the mechanical properties of heat-treated steels, especially in the presence of other elements. • It slows up tempering in the range of 500-600 C and can induce secondary hardening. • It helps control grain growth during heat treatment. By inhibiting grain growth it helps increase the toughness and strength of the steel.

VACUUM HEAT TREATMENT

All blades are vacuum heat treated to optimize their metallurgical properties. This advanced process prevents oxidation and decarburization, ensuring a uniform and refined microstructure. As a result, the blades achieve enhanced hardness, superior wear resistance, improved corrosion resistance, and excellent dimensional stability. These benefits combine to provide consistently sharp, durable, and reliable cutting performance with extended service life.

For **SUS 420J2**, **DIN 1.4034**, and **DIN 1.4116** stainless steels, vacuum heat treatment further enhances toughness and strength, ensuring the blades maintain high cutting performance over time. The refined microstructure improves wear resistance and corrosion resistance, allowing the blades to retain their sharpness and durability even under demanding conditions. These materials are ideal for high-performance shears, providing reliable performance and extended service life.

NUSHARP™
A cutting edge supplier

FINE-BLANKING

The Fine-Blanking process creates shearing edges that are significantly finer compared to conventional stamping, with the shearing edge area being about one-third the size. Parts produced using Fine-Blanking have 100% shearing edges, flat shapes, and precise dimensions.

By applying Fine-Blanking technology, the improvement in the components is significant. These components have good shape, smooth surfaces, and precise sizes, so they are ready for assembly without further secondary operations. The productivity is increased, production cycle time is reduced, and component costs are significantly lowered.

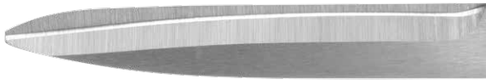
EXTENDED BLADES

The extended blades are embedded into the handle to prevent handle breakage and enhance durability. Additionally, the power transfer during cutting is enhanced, leading to greater efficiency and improved cutting accuracy.

BLADE GRINDING

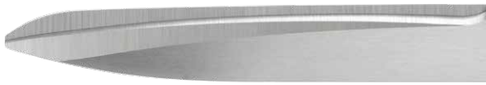
SUS 420J2 Blades

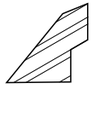
- Inner blade features precision flat grinding
- Straight cutting edge for clean and consistent cuts
- Optional serrated teeth on the lower blade available to enhance grip and prevent slippage



DIN 1.4034 Blades

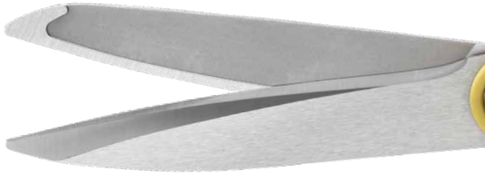
- Inner blade with expertly executed hollow grinding
- Gradually tapered cutting edge for smooth shearing action
- Hollow grinding minimizes friction and reduces material buildup, preventing jamming during cutting operations





DIN 1.4116 Blades

- CNC-machined hollow grinding on the inner blade for exceptional precision
- Gradual cutting edge optimized for durability and sharpness
- CNC hollow grinding ensures precise contours, enabling heavy-duty cutting performance with reduced user effort



LITOR

Lightweight precision, made to move.

TEKTOR

Technic refined. Power in your control.

TEKTOR-L

Engineered for comfort. Unmatched control for effortless cutting.

LITOR

SPECIFICATIONS

- Blades made of 3.0mm SUS 420J2 stainless steel with vacuum heat treatment, HRC 52~55
- Bolt made of SUS 302 stainless steel cold forged
- Lock nut made of SUS 302 stainless steel
- Handles made of TPR

Blade specs and item no.

	420J2	LENGTH
8"	no.635	Full length : 206mm (8") Cutting length : 60mm (2 3/8")
9"	no.637	Full length : 231mm (9") Cutting length : 87mm (3 3/8")
10"	no.639	Full length : 257mm (10") Cutting length : 111mm (4 3/8")

LIGHTWEIGHT SCISSORS

Streamlined design for effortless control

- 3.0mm blade thickness strikes the perfect balance between strength and reduced overall weight
- Sleek, minimalist handle made from a single-color, single-material design for a clean and modern look
- Equipped with the Ergo Fit Thumb Ring, a flexible thumb loop that comfortably adapts to various hand sizes

- Lightweight and easy to operate, minimizing fatigue during extended use—ideal for daily or high-frequency users
- Especially suited for shared environments such as offices, warehouse packing stations, and more

FOR SHEARING

Fabric, thin leather, paper, plastic wrap, light cardboard, plastic sheets, and other common household materials.

TEKTOR

SPECIFICATIONS

- **Blades**
  DIN 1.4034 - Blades made of 3.5mm DIN 1.4034 stainless steel with vacuum heat treatment, HRC 56~58 and an arc cutting edge
  SUS 420J2 - Blades made of 3.5mm SUS 420J2 stainless steel with vacuum heat treatment, HRC 52~55
- Bolt made of SUS 302 stainless steel cold forged
- Lock nut made of SUS 302 stainless steel
- Handles made of PP+GF and TPR overmolded

Blade specs and item no.

	1.4034	420J2	LENGTH
8"	no.645	no.644	Full length : 206mm (8") Cutting length : 60mm (2 3/8")
10"	no.647	no.646	Full length : 257mm (10") Cutting length : 111mm (4 3/8")
11"	no.649	no.648	Full length : 283mm (11") Cutting length : 136mm (5 3/8")

TECHNIC REFINED DESIGN

- 3.5mm thick blades provide excellent cutting power and durability
- Closed thumb handle design offers enhanced structural stability and consistent grip
- Ideal for personal, dedicated use to develop steady handling habits
- Delivers precise cutting performance, especially suited for professionals engaged in prolonged, high-intensity tasks

FOR SHEARING

Thick fabric, upholstery, leather, cardboard,
plastic sheets, rope, carpet, and other tough materials.

TEKTOR-L

SPECIFICATIONS

- **Blades**
  DIN 1.4034 - Blades made of 3.5mm DIN 1.4034 stainless steel with vacuum heat treatment, HRC 56~58 and an arc cutting edge
  SUS 420J2 - Blades made of 3.5mm SUS 420J2 stainless steel with vacuum heat treatment, HRC 52~55
- Bolt made of SUS 302 stainless steel cold forged
- Lock nut made of SUS 302 stainless steel
- Handles made of PP+GF and TPR overmolded

Blade specs and item no.

	1.4034	420J2	LENGTH
8"	no.655	no.654	Full length : 206mm (8") Cutting length : 60mm (2 3/8")
10"	no.657	no.656	Full length : 257mm (10") Cutting length : 111mm (4 3/8")
11"	no.659	no.658	Full length : 283mm (11") Cutting length : 136mm (5 3/8")

WITH ERGO FIT THUMB RING

- 3.5mm thick blades provide excellent cutting power and durability
- Reinforced structural design enhances overall rigidity and stability
- Equipped with an Ergo Fit Thumb Ring featuring a flexible opening for a comfortable fit across various hand sizes
- Perfect for shared workstations and team environments requiring heavy-duty cutting

FOR SHEARING

Thick fabric, upholstery, leather, cardboard,
plastic sheets, rope, carpet, and other tough materials.

BELTOR

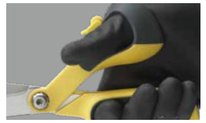
Belt-adjust comfort. Fit your every move.

BELTOR-KING

Open-loop finger grip for precision and power. Rule every cut.

BELT-ADJUST LOOP

The upper handle is equipped with a belt-style adjustment loop, allowing fine-tuned adjustments based on palm size or glove thickness. Its flexible, belt-like structure offers both adaptability and stability, significantly improving grip security and user comfort across various working environments.



IMPROVE STABILITY

The 4.0mm thick blades deliver powerful cutting force and outstanding durability, specifically designed for heavy-duty cutting tasks and high-intensity use.
The inner blade surfaces are CNC precision-milled for accurate weight balance and include a chip evacuation structure that effectively prevents sticking, ensuring smooth and uninterrupted cutting — particularly ideal for sticky or fibrous materials.

BELTOR

SPECIFICATIONS

- **Blades**

  DIN 1.4116 - Blades made of 4.0mm DIN 1.4116 stainless steel with vacuum heat treatment, HRC 56~58, internal CNC grinding and an arc cutting edge

  DIN 1.4034 - Blades made of 4.0mm DIN 1.4034 stainless steel with vacuum heat treatment, HRC 56~58 and an arc cutting edge
- Bolt made of JIS SCM 435 alloy steel (class 10.9)
- Handles made of PP+GF and TPR overmolded

Blade specs and item no.

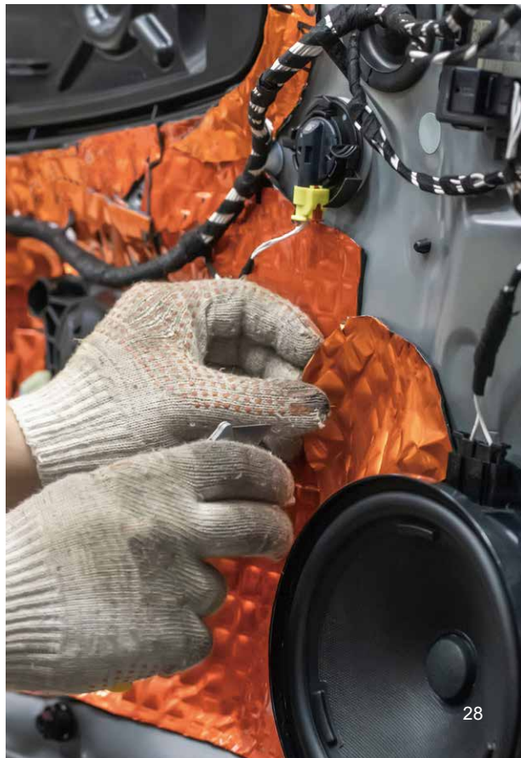
	1.4116	1.4034	LENGTH
8.5"	no.625	no.624	Full length : 225mm (8.5") Cutting length : 68mm (2 5/8")
10"	no.627	no.626	Full length : 263mm (10") Cutting length : 105mm (4 1/8")
11"	no.629	no.628	Full length : 288mm (11") Cutting length : 130mm (5 1/8")

FULLY ENCLOSED LOWER HANDLE LOOP

- 4.0mm thick blades provide strong, durable cutting for heavy-duty use. CNC-milled surfaces ensure balance, chip clearance, and smooth cutting, even on sticky or fibrous materials.
- The upper handle has a belt-style adjustable loop for hand size or glove thickness, providing flexible fit, secure grip, and comfort in varied work conditions.
- Solid, fully enclosed lower handle loop offers a firm, secure grip
- Ideal for bare hands or light glove use. Maximizes cutting accuracy and control

FOR SHEARING

Thick leather, rubber, heavy canvas, nylon straps, industrial tape, and other tough materials.



BELTOR-KING

SPECIFICATIONS

- **Blades**

  DIN 1.4116 - Blades made of 4.0mm DIN 1.4116 stainless steel with vacuum heat treatment, HRC 56~58, internal CNC grinding and an arc cutting edge

  DIN 1.4034 - Blades made of 4.0mm DIN 1.4034 stainless steel with vacuum heat treatment, HRC 56~58 and an arc cutting edge
- Bolt made of JIS SCM 435 alloy steel (class 10.9)
- Handles made of PP+GF and TPR overmolded

Blade specs and item no.

	1.4116	1.4034	LENGTH
8.5"	no.615	no.614	Full length : 221mm (8.5") Cutting length : 68mm (2 5/8")
10"	no.617	no.616	Full length : 259mm (10") Cutting length : 105mm (4 1/8")
11"	no.619	no.618	Full length : 284mm (11") Cutting length : 130mm (5 1/8")

OPEN LOWER HANDLE LOOP

- 4.0mm thick blades provide strong, durable cutting for heavy-duty use. CNC-milled surfaces ensure balance, chip clearance, and smooth cutting, even on sticky or fibrous materials.
- The upper handle has a belt-style adjustable loop for hand size or glove thickness, providing flexible fit, secure grip, and comfort in varied work conditions.
- The open-loop design of the lower handle allows for easy use while wearing heavy-duty gloves. Especially suitable for demanding work environments such as industrial or construction settings where large gloves are required. Maintains high cutting performance while ensuring comfort and operational flexibility.
- Ideal for bare hands or light glove use. Maximizes cutting accuracy and control
- Suitable for workers wearing heavy gloves and prolonged use.

FOR SHEARING

Thick leather, rubber, heavy canvas, nylon straps, industrial tape, and other tough materials.

KEVLAR® SHEARS

Engineered for Performance

KEVLAR® is a strong, lightweight fiber that is five times stronger than steel by weight. It is durable, heat- and cut-resistant, and used in bulletproof vests, gloves, helmets, cables, and sports gear for reliable protection in tough conditions.

3,000 CUTS GUARANTEED

NUSHARP KEVLAR® Shears are engineered specifically for cutting tough synthetic fibers such as KEVLAR® and aramid composites. Featuring ultra-sharp, wear-resistant high-carbon alloy steel blades, they deliver clean, precise cuts without fraying or slipping.

FOR SHEARING

Kevlar®, Nomex®, Dyneema®, Spectra®, Vectran®, Technora® , Innegra™ , Carbon Fiber, Fiberglass, and other fire resistant fabrics

LITOR KEVLAR® SHEARS SPECIFICATIONS

- Blades made of 3.0mm high carbon alloy steel HRC 60-62, cutting edge hardness HV 1200
- Equipped with the Ergo Fit Thumb Ring
- Bolt made of SUS 302 stainless steel cold forged
- Handles made of TPR
- Serrated blade for gripping materials

8"	no.663	Full length : 206mm (8”) Cutting length : 60mm (2 3/8")

TEKTOR KEVLAR® SHEARS SPECIFICATIONS

- Blades made of 3.5mm high carbon alloy steel HRC 60-62, cutting edge hardness HV 1200
- Bolt made of SUS 302 stainless steel cold forged
- Lock nut made of SUS 302 stainless steel
- Handles made of PP+GF and TPR overmolded
- Serrated blade for gripping materials

8"	no.664	Full length : 206mm (8”) Cutting length : 60mm (2 3/8")

EASE SHEARS

NUSHARP™
A cutting edge supplier

LITOR

Blade specs and item no.

8"	SUS 420J2
	no.635

Full length : 206mm (8")
Cutting length : 60mm (2 3/8")

9"	SUS 420J2
	no.637

Full length : 231mm (9")
Cutting length : 87mm (3 3/8")

10"	SUS 420J2
	no.639

Full length : 257mm (10")
Cutting length : 111mm (4 3/8")

Crafted for KEVLAR® composite

8"	High Carbon Alloy Steel
	no.663

Full length : 206mm (8")
Cutting length : 60mm (2 3/8")

TEKTOR

Blade specs and item no.

8"	DIN 1.4034	SUS 420J2
	no.645	no.644

Full length : 206mm (8")
Cutting length : 60mm (2 3/8")

10"	DIN 1.4034	SUS 420J2
	no.647	no.646

Full length : 257mm (10")
Cutting length : 111mm (4 3/8")

11"	DIN 1.4034	SUS 420J2
	no.649	no.648

Full length : 283mm (11")
Cutting length : 136mm (5 3/8")

Crafted for KEVLAR® composite

8"	High Carbon Alloy Steel
	no.664

Full length : 206mm (8")
Cutting length : 60mm (2 3/8")

TEKTOR-L

Blade specs and item no.

8"	DIN 1.4034	SUS 420J2
	no.655	no.654

Full length : 206mm (8")
Cutting length : 60mm (2 3/8")

10"	DIN 1.4034	SUS 420J2
	no.657	no.656

Full length : 257mm (10")
Cutting length : 111mm (4 3/8")

11"	DIN 1.4034	SUS 420J2
	no.659	no.658

Full length : 283mm (11")
Cutting length : 136mm (5 3/8")

BELTOR

Blade specs and item no.

8.5"	DIN 1.4116	DIN 1.4034
	no.625	no.624

Full length : 225mm (8.5")
Cutting length : 68mm (2 5/8")

10"	DIN 1.4116	DIN 1.4034
	no.627	no.626

Full length : 263mm (10")
Cutting length : 105mm (4 1/8")

11"	DIN 1.4116	DIN 1.4034
	no.629	no.628

Full length : 288mm (11")
Cutting length : 130mm (5 1/8")

BELTOR-KING

Blade specs and item no.

8.5"	DIN 1.4116	DIN 1.4034
	no.615	no.614

Full length : 221mm (8.5")
Cutting length : 68mm (2 5/8")

10"	DIN 1.4116	DIN 1.4034
	no.617	no.616

Full length : 259mm (10")
Cutting length : 105mm (4 1/8")

11"	DIN 1.4116	DIN 1.4034
	no.619	no.618

Full length : 284mm (11")
Cutting length : 130mm (5 1/8")

2025/10

We build and sell trust!

NUSHARP inc.

TAIWAN Factory & Head Office
No. 3, Jingke 5th Rd., Taichung Precision Machinery Park, Taichung 40852,Taiwan
E-mail : service@nusharp.com.tw
Tel: +886-4-2355-1133
Fax: +886-4-2355-3311
www.nusharp.com.tw

JAPAN Office
〒534-0001 6-3 Kematyo, 1 Chome, Miyakojima-Ku, Osaka, Japan
E-mail:chin_seppo@nusharp.com.tw
Tel: +81-6-6921-0888
Fax: +81-6-7492-7730
www.nikinchen.com