

**WINHIGH**<sup>®</sup>

*A Great Catch*



# PRODUCT CATALOG

WWW.WINHIGH.COM.AU  
info@winhigh.com.au

# WINHIGH<sup>®</sup>

*A Great Catch*

## Winhigh Buckles & Components

### Products for every aspect of life

Your customers engage in a variety of outdoor activities and sports. Your products are designed to help them enjoy their time and keep them safe. Winhigh recognizes that there is a need for different products and different designs to match a broad range of outdoor and apparel products.

### Plastic Buckles and Components

Our buckles and components are the best on the market, thanks to our world-class competence in high precision tool-making and our commitment to quality. Our catalogue items routinely out-perform competitor products, while our pricing is sure to please. And with the shortest supply lead-time in the industry, we will keep your supply chain humming.

### Set your imagination free

You design your products to be unique, so why add the plain old buckles and components that everyone else has? We design products that meet your specific requirements. Color, Texture and Shape are just a few things we can customize... Bring your ideas to us and we will figure out the rest.

### What Winhigh can do that others can't

Winhigh offers the most durable products on the market. From tensile strength to impact strength and low temperature performance, Winhigh products are ready to meet the challenges of your toughest customers. The more demanding the application, the more reason to choose Winhigh as your supply partner.



# WHY WE ARE DIFFERENT....

Winhigh has changed the game by delivering superior standard components leveraging our deep automotive expertise, backed by our enthusiastic service and flexibility. The outdoor and apparel industry can benefit from our ability to create stronger and more reliable buckles and components with lower costs, with the shortest lead-times in the world. In today's challenging and competitive environment a great buckle and component can be the key differentiator in gaining a competitive marketplace advantage. Working with Winhigh catalogue items, you will be well equipped to set yourself apart even with everyday functional items.

Winhigh also offers the creative design resources needed to leverage your design aspirations. With our world-class tooling expertise, Winhigh has embarked on numerous challenging projects for customers in different sport, recreational, outdoors and apparel markets. Our customers are learning that Winhigh's expertise reaches far beyond manufacturing the highest quality plastic buckles and trims for the outdoor and apparel industry. In fact, Winhigh is the first choice when it comes to complex or challenging injection-molded plastic components of almost any kind. Winhigh expertise reaches far beyond manufacturing the highest quality plastic buckles and trims for the outdoor and apparel industry.

Winhigh is a relatively new entrant to the plastic trims market, although the company has a history of almost 15 years, with in-house 3D design competencies and high-precision tool making capabilities that serve demanding automotive companies. We believe customers need to be convinced of the credentials of any new entrant. As a result, Winhigh has sought to qualify its buckles in the most demanding applications right from the outset, to prove to all potential customers that Winhigh can supply the highest possible quality products. Winhigh is a safe bet for all your products!



## UL AND ISO CERTIFIED IN BOTH THE USA AND EUROPE

*Our innovative products earned life jacket (Personal Flotation Device) buckle and helmet compliance certifications in the USA and Europe - all within 12 months of Winhigh's start-up. We are one of only three buckle manufacturers in the world to carry both of these Certifications.*

All our customers can rest assured that the same level of quality prevails in every plastic component we produce. All our plastic components are designed to be user-friendly, even in the most challenging applications. We guarantee our products to perform in temperatures as low as -40° C.

## EQUIPPING YOUR PRODUCTS WITH THE BEST BUCKLES AND COMPONENTS AVAILABLE

We are extremely proud of our design team and our manufacturing group's expertise and capability. As a result of their commitment to excellence, Winhigh is leading the way by creating the highest quality components and buckles available today.

Winhigh products display the highest tensile and impact strength obtainable. Our team leverages deep expertise in the design and manufacture of tooling for automotive plastic components to change the game in plastic components serving the outdoor goods and apparel markets.

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## CUSTOM DESIGN AND TOOL MAKING

## BRINGING YOUR IDEAS TO LIFE

Unrivalled Product Development Capability  
Lighting Fast Speed to Market for Custom Designs  
Highest Standard Mold Design and Manufacturing Available  
Exemplary Environmental Responsibility  
Catering To Many Applications

## WHAT DOES ALL THIS MEAN TO YOU

Durable Tooling with 1 Million Shots Guaranteed  
Very Competitive Pricing  
Multi-year Price Validity Available  
Short Lead-Time on Component Supply



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**KEPPEL**



**KEPPEL D**



**VECTOR**

**NEW PRODUCT**

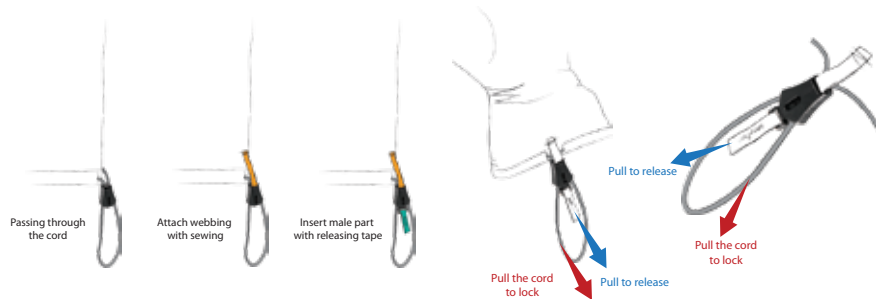
*Talk to **Winhigh** to learn more about the latest additions to the family of products that are designed to exceed your expectations*

## VECTOR

The Winhigh Vector is the most innovative cordlock you have ever seen. It was named not only for the "V" shape but for the way easily pulling it in one direction increases the magnitude of tightness, it works that easy. And it releases effortlessly via the tab that pulls in the opposite direction.



### ASSEMBLY GUIDE



### Features

- Intuitive
- One-handed operation
- Easy-lock, easy-release
- Strong locking force
- Excellent low temperature performance down to -40° C

New

Vector	Item No.	Material	Bunge Cord	A (mm)	B (mm)	C (mm)	D (mm)
Vector VCL-1	VCL-1	Acetal	2.5 -3.5mm	15.30	26.00	7.00	7.40

## KEPPEL HOOK

The Keppel Hook draws its inspiration from ancient hooks found in north-eastern Australia. Carbon dating confirms the traditional fishing hooks found on Keppel Island are some of the oldest unearthed in Australia.

The traditional owners of Australia were heavily dependent on the sea, and their fishing techniques developed thousands of years ago. Winhigh acknowledges the incredible talents and resilience of the traditional owners of Australia, and the Keppel Hook and Ring family pays tribute to them.



### Features

- Appealing
- Resilient
- Strong character, strong hook
- Distinctive
- Excellent low temperature performance down to -40° C

New

Keppel	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)	A (mm)	B (mm)	C (mm)	D (mm)
Keppel KH 25	KH25	25mm	1"	Acetal/Steel	600N	35.70	75.19	25.50	14.80
Keppel KH 40	KH40	40mm	1-1/2"	Acetal/Steel	668N	50.70	76.24	40.00	14.80

## KEPPEL D-RING

The Keppel D-Ring is best paired with the Keppel Hook, and also draws its name from Keppel Island, where ancient fishing hooks have been unearthed in Australia.

The traditional owners of Australia were heavily dependent on the sea, and their fishing techniques developed thousands of years ago. Winhigh acknowledges the incredible talents and resilience of the traditional owners of Australia, and the Keppel Hook and Ring family pays tribute to them.



### Features

- Appealing
- Resilient
- Strong character, strong D-Ring
- Distinctive
- Excellent low temperature performance down to -40° C

New

Keppel	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)	A (mm)	B (mm)	C (mm)	D (mm)
Keppel KDR25	KDR25	25mm	1"	Acetal	890N	38.32	34.98	25.63	6.06
Keppel KDR40	KDR40	40mm	1-1/2"	Acetal	890N	61.32	55.96	41.00	6.99



**CORDLOCK: HCL-1**

New

“Box-style”, low-profile cordlocks with the ultimate ease-of-use features; offering concealed design options



**Features**

- Responding to our customers’ design direction
- Very low-profile cordlocks offer design flexibility
- Excellent user ergonomics, easy-push button
- Easy to sew into the garment for “hidden” operation
- Easy-to-use, including one-finger operation
- Very Easy-to-use, including one-finger operation

Cordlock HCL-1	Item No.	Material
HCL -1	HCL1	Acetal

**CORDLOCK: HCL-2**

New

“Box-style”, low-profile cordlocks with the ultimate ease-of-use features; offering concealed design options



**Features**

- Responding to our customers’ design direction
- Very low-profile cordlocks offer design flexibility
- Excellent user ergonomics, easy-push button
- Easy to sew into the garment for “hidden” operation
- Easy-to-use, including one-finger operation

Cordlock HCL -2	Item No.	Material
HCL -2	HCL2	Acetal



**CABLE TIE CT-01**

New



**CABLE TIE CT-02**

The new Cable-Tie Zipper Pullers from Winhigh provide a new take on an old theme. Rather than insert pullers or overmold pullers, why not take a look at the options available for a customized look and feel from these zipper pullers.

The injection-molded pullers are economical to manufacture and quick to assemble, so they provide the option of delivering a unique appearance without breaking the bank. In addition, the range of textures and materials available provides you with great flexibility for user experience, in both grip and stiffness.

	CT-01	CT-02
A	8.6	8.6
B	39.8	46.6
C	5.6	5.6
D	3.2	3.2

(mm) (mm)

New

**CORD PULLER CP-01**

Light Weight, Ergonomic Design, Soft Material, Understated, Fancy Design



CP-01	
A	7
B	3

(mm)

# BUCKLES



## SIDE-RELEASE BONDI BUCKLE : BD

The **Bondi Buckles** are two-faced buckles, easy-release and symmetrical, and ready to let your products shine.



### Features

- High tensile strength to weight ratio
- Polished side-arms for easy and comfortable release
- Self Guiding shape for ease of use
- Symmetrical, two-sided design
- Audible click on closing
- No punch marks
- No mold marks
- Excellent low temperature performance down to -40°C
- Also available in Double Adjust

Bondi BD	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
Bondi BD 16	BD16	16mm	5/8"	Acetal	300N
Bondi BD 20	BD20	20mm	3/4"	Acetal	534N
Bondi BD 25	BD25	25mm	1"	Acetal	668N
Bondi BD 40	BD40	40mm	1-1/2"	Acetal	668N

## SIDE-RELEASE BONDI BUCKLE: BD DUAL

The **Dual Bondi Buckles** are two-faced buckles, easy-release and symmetrical, and ready to let your products shine.



### Features

- High tensile strength to weight ratio
- Polished side-arms for easy and comfortable release
- Self guide shape for ease of use
- Symmetrical, two-sided design
- Audible click on closing
- No punch marks
- No mold marks
- Excellent low temperature performance down to -40°C
- Also available in Single Adjust

Bondi DB Dual	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
Bondi Dual -20	DBD20	20mm	3/4"	Acetal	534N
Bondi Dual -25	DBD25	25mm	1"	Acetal	668N
Bondi Dual -40	DBD40	40mm	1-1/2"	Acetal	668N



## SIDE-RELEASE BONDIE BUCKLE: BDN

Initially designed as the **BDN-16** model to specifically meet the intense demands needed to keep dry bags sealed.



### Features

- Two-faced buckle
- No punch marks
- No mold marks
- "Non-Adjustable"
- Polished side-arms for easy and comfortable release
- Great fit for nearly every market & application
- Other Bondie Buckle models include: **BD** (Single Glide) and **DBD** (Double Glide)
- Specifically designed for Dry Bags, yet versatile so it can be used in other applications as well

Bondie BDN	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
Bondie BDN 16	BDN16	16mm	1"	Acetal	300N

## SIDE-RELEASE BUCKLE: FOX DUAL

Winhigh's fashionable and appealing **FOX Dual Side-Release Buckle** is a light-weight side-release buckle with curved shape and contoured body.



### Features

- Curved and contoured, evoking an image of a fox
- Light weight with V-shaped open space on body
- **High tensile strength** to weight ratio
- Polished side-arms for easy and comfortable release
- Self guide shape for ease of use
- **Tracking System™** on back side
- Audible click on closing
- **Excellent low temperature performance down to -40° C**

FOX Dual	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
FOX -Dual 20	DFOX20	20mm	3/4"	Acetal	534N
FOX -Dual 25	DFOX25	25mm	1"	Acetal	668N
FOX -Dual 40	DFOX40	40mm	1-1/2"	Acetal	668N

## SIDE-RELEASE BUCKLE: FOX

Winhigh's fashionable and appealing **FOX Side-Release Buckle** is a light-weight side-release buckle with curved shape and contoured body.



### Features

- Evoking an image of a fox, fashionable and appealing
- Light weight with V-shaped open space on body
- **High tensile strength** to weight ratio
- Polished side-arms for easy and comfortable release
- Self guide shape for ease of use
- **Tracking System™** on back side
- Audible click on closing
- **Excellent low temperature performance down to -40° C**

FOX SR	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
FOX -16	FOX16	16mm	5/8"	Acetal	534N
FOX -20	FOX20	20mm	3/4"	Acetal	534N
FOX -25	FOX25	25mm	1"	Acetal	668N
FOX -40	FOX40	40mm	1-1/2"	Acetal	668N

## CURVED SIDE-RELEASE BUCKLE: HXT

Ultra-strong helmet buckle, **curved** for a comfortable fit.



### Features

- Offers **extremely high tensile and impact strength** for challenging applications
- **Meets US and EU helmet standards**
- **Curved** design ensures **comfort** against neck during activity
- **Anti-pinching design** protects your fingers from accidental injury
- Symmetrical female part allows easy sewing
- **Tracking System** on back side
- Self-guiding shape for ease of use
- Polished side-arms for easy and comfortable release
- Audible click on closing
- **Excellent temperature performance down to -40° C**

HXT	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
HXT-16	HXT16	16mm	5/8"	Acetal	800N



## SIDE-RELEASE BUCKLE: XT

The XT Side-Release Buckle is the world's strongest buckle. The XT buckle is the world's strongest strongest side-release buckle, and one of only three buckles in the world certified for PFD's in both Europe and the USA



### Features

- **Extremely high tensile strength** for challenging applications
- **UL Certified for use in Life Jackets/ PFD's** (XT-25 & XT-40)
- **EN/ISO Certified for use in life jackets / PFD's**
- **Anti Pinching™** protects your fingers from accidental injury
- Symmetrical female allows easy sewing
- Center rib reinforced female
- Self guide shape for ease of use
- Polished side-arms for easy and comfortable release
- **Tracking System™** on back side
- Audible click on closing
- Logo insert available
- **Excellent low temperature performance down to -40° C**

XT	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
XT 20	XT20	20mm	3/4"	Acetal	690N
XT 25	XT25	25mm	1"	Acetal	690N
XT 40	XT40	40mm	1-1/2"	Acetal	890N
XT 50	XT50	50mm	2"	Acetal	1000N

## SIDE-RELEASE BUCKLE: XT DUAL

The world's strongest side-release buckles for guaranteed performance in all conditions, available in Dual Glide



### Features

- **Extremely high tensile strength** for challenging applications
- **Anti Pinching** protects your fingers from accidental injury
- Symmetrical female allows easy sewing
- **Tracking System** on back side
- Self guide shape for ease of use
- Polished side-arms for easy and comfortable release
- Center rib reinforced female
- Audible click on closing
- **Excellent low temperature performance down to -40° C**

Dual XT	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
DXT 25	DXT25	25mm	1"	Acetal	690N
DXT 40	DXT40	40mm	1-1/2"	Acetal	890N
DXT 50	DXT50	50mm	2"	Acetal	1000N

# COMPONENTS

## CORDLOCK: FCL-B

Traditional styled barrel cordlock with two webbing slots; pre-lock function for faster assembly and reduced impact on assembly workers.



### Features

- Prelocking feature reduces assembly time, easier for assembly personnel
- Innovative design allows easy threading, a single squeeze releases the spring
- **Special-grade stainless steel, avoids false needle detector alarms**
- Two lanyard tie-down holes for **easy one-hand operation**

Cordlock FCL-B	Item No.	Material
FCL-B	FCL-B	Acetal

## CORDLOCK: FCL-S

Slim barrel **cordlock** with single webbing slot; **all-plastic construction**.



### Features

- A twist on the traditional styled barrel cordlock
- **100% recyclable**, environment friendly
- **All plastic, no risk of false needle detector alarms**
- Multiple color and material options offers **flexibility**

Cordlock FCL-S	Item No.	Material
FCL-S	FCL-S	Acetal

## CORDLOCK: FCL MINI SOLO

Traditional styled barrel cordlock in micro size – one hole.



### Features

- Appealing design, compact size
- Light weight, suitable for thin/ light-weight fabrics
- Special-grade stainless steel, avoids false needle detector alarms
- **Excellent low temperature performance down to -40° C**
- The **Solo** variant has a **single hole** for cord

FCL Mini Solo	Item No.	Material
FCL Mini Solo	FCL Mini Solo	Acetal

## CORDLOCK: FCL MINI DUO

Traditional styled barrel cordlock in micro size – two holes.



### Features

- Appealing design, compact size
- Light weight, suitable for thin/ light-weight fabrics
- Special-grade stainless steel, avoids false needle detector alarms
- **Excellent low temperature performance down to -40° C**
- The **Duo** variant has **two small holes** for cord

FCL Mini Duo	Item No.	Material
FCL Mini Duo	FCL Mini Duo	Acetal

## CORDLOCK: DCL

Winhigh's **DCL plastic cordlocks** are strong and durable two-hole cordlocks for demanding jobs.



### Features

- Simple & unique
- **Strong spring mechanism** for a firm hold
- Ergonomic design with curved finger fit edges
- **Spring will not activate needle detectors**

Cordlock DCL	Item No.	Material
DCL	DCL	Acetal

## CORDLOCK: DCL-2

Winhigh's two-hole **DCL-2 cordlock** is a traditional shaped cordlock with ergonomic design and innovative side webbing bar.



### Features

- **Improving** on the more traditional style **two-hole cordlocks**
- Giving your customers a **more comfortable** user sensation
- Low-profile body ensures stable operation
- **Ergonomic design** with curved "finger-fit" edges
- **Improved cord retention due to the innovative "rhombus" shaped holes**

Cordlock DCL -2	Item No.	Material
DCL -2	DCL2	Acetal





## BONDI LADDERLOCK: BLL

The Bondi Ladderlocks (BLL) are high performance ladderlocks with the easiest and most convenient release characteristics. They are specifically designed to accompany our **Bondi** range (BD, DBD and BDN) of **Side-Release** buckles.



### Features

- **Curvy** and attractive **ladderlocks**
- Excellent user properties
- Very high tensile strength
- Very wide and easily accessed release point
- **Supremely easy to use**, even wearing thick gloves

BLL	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
BLL-16	BLL16	16mm	5/8"	Acetal	534N
BLL-20	BLL20	20mm	3/4"	Acetal	534N
BLL-25	BLL25	25mm	1"	Acetal	668N

## LADDERLOCK: FOX LL

Simply styled, the high-strength **FLL plastic ladderlocks** ready to meet any challenges.



### Features

- Big ladderlock tab allows 180° access and adjustment
- **UL Certified for use in Life Jackets/ PFDs** (FLL-25)
- **EN/ISO Certified for use in life jackets / PFD's**
- Designed for smooth webbing sliding
- **Super strong**
- 3-bar tie-down allows mounting to traditional lacing system

FOX Ladderlock	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
Fox Ladderlock 16	FLL16	16mm	5/8"	Acetal	668N
Fox Ladderlock 20	FLL20	20mm	3/4"	Acetal	668N
Fox Ladderlock 25	FLL25	25mm	1"	Acetal	890N
Fox Ladderlock 40	FLL40	40mm	1-1/2"	Acetal	1000N

## ICE CORD-END

Compact and appealing cord end for static cord.



### Features

- Streamlined design, evokes the image of an ICE train
- Both sides are smooth and contoured for comfort
- **Easy to grab**, even when wearing gloves
- Designed for easy one-click assembly
- **Unique two-sided logo capability**
- **Excellent low temperature performance down to -40° C**

ICE Cord End	Item No.	Material
ICE Cord End	ICE	Acetal

## D-RING: XDR

Stylish and contemporary **Rings** for the ultimate security for your webbing.



### Features

- Simple and functional designs
- **Durable and high-strength** components you can rely upon
- **Performance guaranteed down to -40° C**

D Ring XDR	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
XDR 20	XLP 20	20mm	3/4"	Acetal	890N
XDR 25	XLP 25	25mm	1"	Acetal	1000N

## LOOPLOCK: XLP

Count on Winhigh's plastic **XLP Looplocks** for the ultimate security for your webbing.



### Features

- Simple and functional designs
- Durable and high-strength components you can rely upon
- **Performance guaranteed down to -40° C**

Looplock XLP	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
Looplock XLP 20	XDR 20	20mm	3/4"	Acetal	890N
Looplock XLP 25	XDR 25	25mm	1"	Acetal	890N

## TRIGLIDE: XTG

Stylish and contemporary **Tri-glide** for the ultimate security for your webbing.



### Features

- Simple and functional designs
- Durable and high-strength components you can rely upon
- **Performance guaranteed down to -40° C**

Triglide XTG	Item No.	mm	in	Material	Lowest Expected Tensile Load (LETL)
XTG 20	XTG 20	20mm	3/4"	Acetal	890N
XTG 25	XTG 25	25mm	1"	Acetal	890N
XTG 40	XTG 40	40mm	1-1/2"	Acetal	1000N

## WING

Stylish attachment to securely retain backpack chest-straps.



### Features

- Strong locking mechanism ensures a firm hold
- Nice webbing curve provide excellent function for tape adjustment
- Quick attachment to sternum piping system

Wing	Item No.	Material
Wing	Wing	Acetal

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