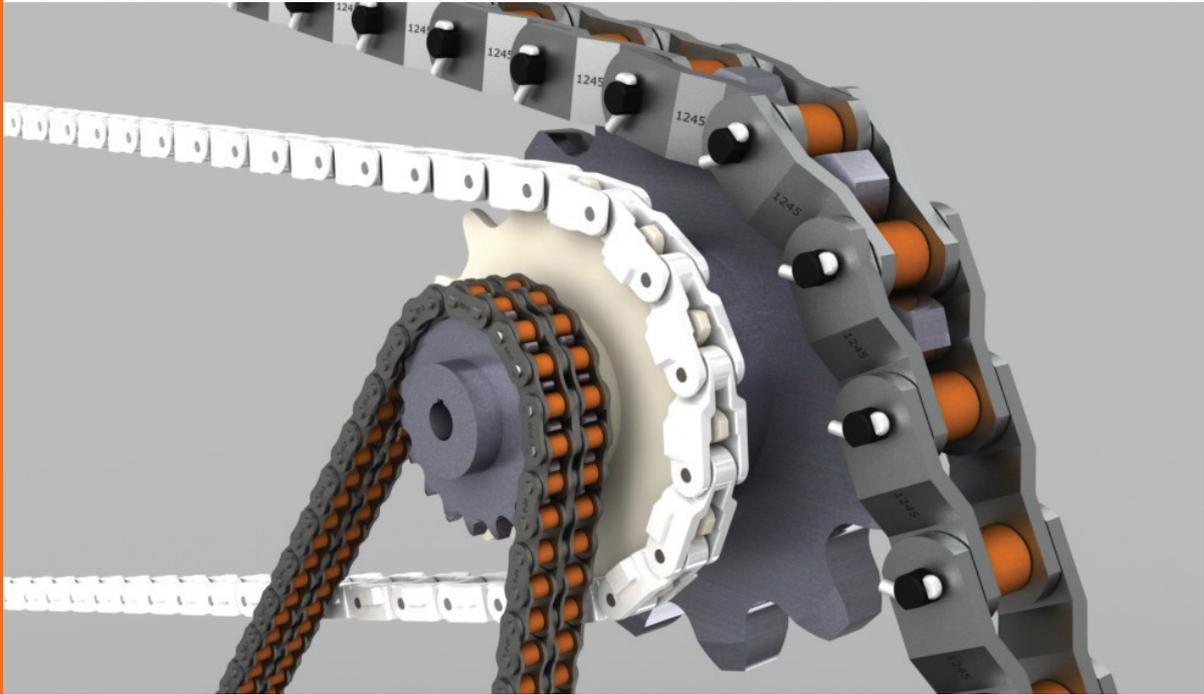


# CHAIN & SPROCKET PRODUCTS



## SUPPLY SERVICES

performance engineering products

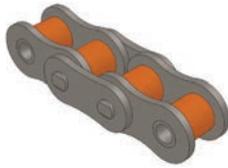
Established 1980

Roller chains & Conveyor chains for Drives and Material Handling

# ROLLER CHAINS

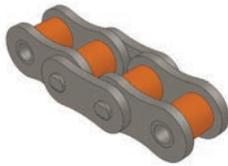
## ANSI & BS Chain

Pitch sizes from 3/8" to 2-1/2" in Simplex, Duplex & Triplex. Other larger multi-strand combinations available also.



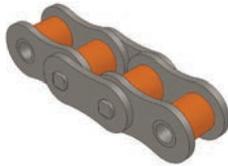
## ANSI Heavy Chain

Heavy Series chains are provided with greater shock and wear resistance, plus high breaking strength for general purpose applications. The side plate thickness is equal to the next larger ANSI chain.



## ANSI Super Chain

Designed for long life and low life cycle cost, Super Series chains are made with high grade special alloy steel and exacting fits to ensure greater resistance to shock and fatigue. Connecting links are a press fit style.



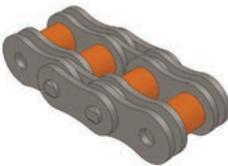
## ANSI Oil Field API Chain

Oil Field chains are manufactured in accordance with API standards, approved for high quality, reliability and long trouble free service life. Also available as API Heavy Series.



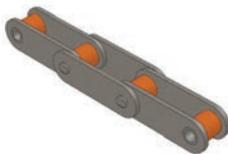
## ANSI Double Capacity Chain

Double Capacity chains are a compact design for heavy duty, low speed applications. Their design is based on the same ultimate tensile strength as a double strand chain.



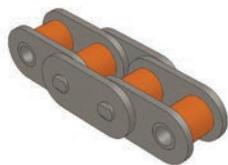
## ANSI Double Pitch Chain

Double Pitch chains are an economical alternative to standard chain but require specific sprockets. They are available in Drive Series, Conveyor Series and Carrier Roller style.



## ANSI & BS Straight Sidebar Chain

Straight Sidebar chains are identical with the standard chains except for the straight side plates. These provide conveyor capabilities and higher fatigue resistance.



## Leaf Chain

Leaf chains are well suited for any application requiring flexible, high strength linkages for reciprocating motion or lift at relatively low speeds. Available in ANSI AL (light duty), ANSI BL (heavy duty) and LL (ISO 606) series.



## Hollow Pin Chain

The unique hollow pin feature provides unlimited conveyor versatility, allowing easy insertion of cross rods or attachments to the chain at the desired spacing.



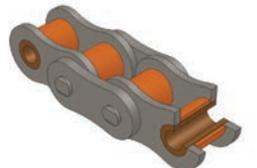
## Side Bow Chain

Side Bow chains provide extra clearance between pins, bushings and link plates to allow freedom of operation around a curve or a twist.



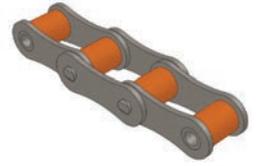
## Self Lube Chain

Self Lube chains feature a unique sintered bush design that comes pre-loaded with lubricant. They are especially useful when oil can not be used in the environment.



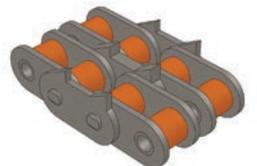
## Agricultural Chain

Agricultural chains are available in various styles and are normally wider than standard roller chains. They are available either in the standard black finish or zinc plated for better protection from the elements.



## Sharp Chains

Sharp chains are used for positive grip and quick acceleration of product. They are most commonly used in the sawmill environment. Many types of profiles exist in both ANSI and BS standards.



## Stainless Steel (SS) Chain

304SS for medium strength, medium corrosion resistance.

316SS for low strength, high corrosion resistance.

600SS for high strength, low corrosion resistance.



## Aqua Proof Chain

Aqua Proof chains have a clear corrosion resistant coating. Chain strength is the same as non-SS roller chain. It is particularly good around brine and damp environments. However it is not suitable where the chain may come into contact with food.



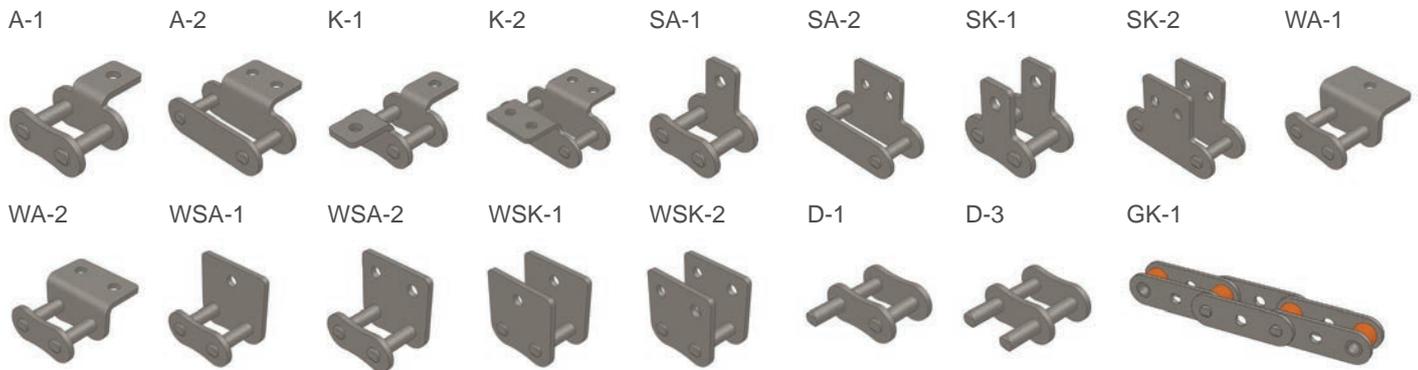
## Nickel Plated Chain

Nickel Plated chain is ideal for outdoor operations where the chain might run in a lightly corrosive atmosphere or where a good chain appearance is required.



# ROLLER CHAIN ATTACHMENTS

A wide range of attachments are available for a variety of applications. Please specify the chain type, attachment style required and pitch frequency.



A-2, K-2, SA-2 and SK-2 attachments are only available for Double Pitch chains.  
Wide style (W) attachments are only available on the outer plates of the chain.

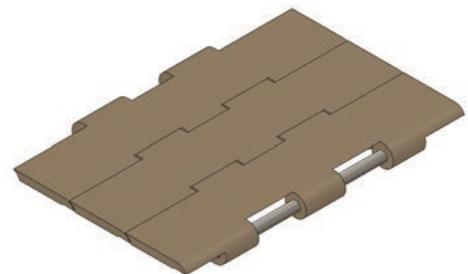
# BOTTLING & PACKAGING CHAINS

There is a vast array of Bottling & Packaging chains made from both stainless steel and injection moulded plastics. Also complementing these products are injection moulded sprockets, idlers, guide rails, wear strips and mounting components. Please contact us with your requirements.

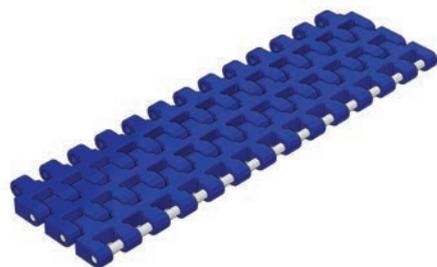
## Stainless Steel Flat Top Chains



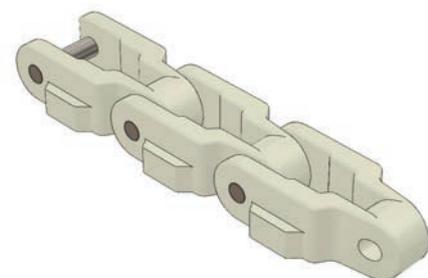
## Plastic Flat Top Chains



## Plastic Modular Belts



## Multi-Flex Chains

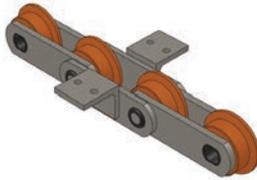


Stainless steel chains can be either magnetic or non-magnetic. Plastic chains are normally Acetal (POM-C) and plastic modular belts can be either Polypropylene (PP) or Polyethylene (PE)

# CONVEYOR CHAINS

## British Standard Roller Conveyor Chain

BS Roller Conveyor chains generally to BS4116.Pt4.1992 are multi-purpose straight side bar conveyor chains useful for a multitude of applications. Pitches vary from 50.8mm (2") to 381mm (15") and ultimate tensile strengths from 26.7kN (6,000lb) to 750kN (170,000lb). Pins can be solid or hollow and the rollers can be either plain or flanged style. Many types of attachments can be fitted either as integral links or welded on. Connecting links are available as riveted, screwed, circlip and cotter pin.



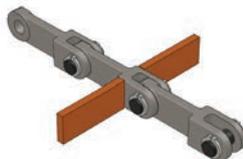
## Cast H&C Style Conveyor Chain

These chains come in either cranked linked style (H Class) or straight side bar style (C Class). Both are normally cast in malleable iron or cast steel. The C Class chains have carbon steel outer side bars which allow welding of attachments. Some common examples are H78, H82, C55, C188, C131, C102B and the rooftop series H78A, H78B, H130, H138, C55A, C55B, C55D.



## Drop Forged Chain

Also known as En-Masse chains these versatile and simple chains are high strength and wear resistant. They are capable of conveying a multitude of products on inclines up to vertical and at temperatures of up to 1000 °C (depending on the chain alloy selected). The conveyor design can be totally enclosed and very compact. Available pitches are 102mm, 142mm and 260mm.



## Steel Pintle Chain

These open barrel chains were originally developed for the agricultural industry. Generally they are used in applications such as spreaders, feeder systems and spray boxes where sticky substances would otherwise seize a closed barrel type chain. Common chains are 667X, 667K, and 88K.



## Sewerage Chain

Various chains are used in this industry where they may either be steel or plastic chains. The plastic chains are becoming more common due to their resistance to corrosion, light weight and ease of installation.

PC720S (6.000"), PC78 (2.609")  
WR720S, WR78



## Metric Conveyor Chain

European Metric chains are made according to 3 different styles DIN8167, DIN 8165 and SMS 1698. They are multi-purpose straight side bar conveyor chains useful for a multitude of applications. Pitches vary from 40mm to 500mm and ultimate tensile strengths from 40kN to 900kN. Pins can be solid or hollow and the rollers can be either plain, flanged or plain bushed style (none). Many types of attachments can be welded on. Additional strength can be obtained by welding in of the bush and/or rivets. Connecting links are available as riveted or welding type



Carrier style side plates shown

## Rivetless Chain

Rivetless chain is drop forged from carbon steel, normalised, heat treated and quenched. This very simple chain design allows for tool free assembly or disassembly at any pitch in the chain. The standard chain allows for general applications, whereas the X-Series is specifically designed for overhead trolley conveyors.



## Bi-Planer Chain

Bi-Planer chains are chains that are designed to flex in two directions. They usually run around a horizontal radius and then return under the conveyor. Typical applications would be bottling conveyors, log turning and taking lumber around a bend. Common chains are malleable CC600 and DF3500.



## Imperial Long Link Chain

Imperial round and square section long link chains are suitable for conveying bulky, abrasive materials in the wood processing industry. Pitches vary from 6" to 8" and the cross section from 1" to 1-1/4" across. The chain can be supplied either in through hardened alloy steel or in work hardening manganese steel (SLL only).



## Metric Long Link Chain

Metric long link chains are particularly suitable for twin strand bucket elevator and ash conveyor applications. The chain pitch is precision controlled and the alloy steel is case hardened with a tough fine grain core. Surface hardness of 65 Rc (820HV) is standard. Alternative alloys are available for high shock applications. Various standard bucket connecting attachments and sprockets are available.



# WOOD PROCESSING CHAINS

## Welded Steel Mill Chain

Welded Steel Mill chains provide an economical and superior method for conveying most materials. They are most common in the lumber, pulp & paper, plywood, OSB and other board mills. Other applications include bucket elevators and bulk material handling. Various through and induction hardening options allow you to tailor the chain to the application.



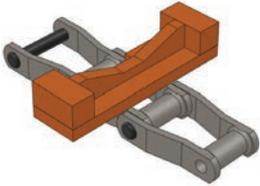
## Welded Steel Drag Chain

Welded Steel Drag chains provide efficient and economical service when used in chip and waste conveyors. Various through and induction hardening options allow you to tailor the chain to the application. Super Hog thick wall barrel and Whole Hog round barrel chains are available for heavy duty applications such as chip reclaimers and debarker infeeds.



## Welded Steel Chain Attachments

The scope of attachments available for these chains is only limited by your imagination. The excellent field weldability of these chains make it easy to fabricate a multitude of robust attachments providing good design and welding principles are followed ie. rooftop chain, log cradles, pusher attachments, side lift log chairs etc.



## Debarker Chain

Debarker chains fall into 3 categories:

Flail chain, ring chain for mobile chippers.

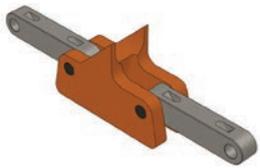
Cast chain, for various machines in alloy or manganese steel c/w through hardened 4140 pins.

Twin strand, welded steel chain c/w hardened steel cradles.



## Sharp Chains

6" pitch block and bar sharp chains are heavy duty chains used for accurate high volume primary breakdown of logs through the bandsaws. These chains are precision made and run on special plastic beds and purpose designed hardened sprockets.



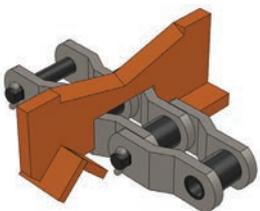
## Bin Sorter Chain

Binsorter chains are used to convey the scanned boards to the appropriate graded bin. Typical chains with polyurethane J-hooks are ANSI 3939 (8" pitch) and 9" pitch, 15,000lb BS roller conveyor chain. Drop sorters typically use ANSI C2100H chain.



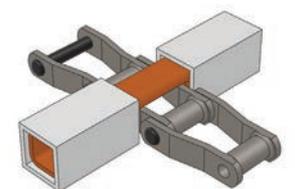
## Double Length Infeed & Auto-Rotation Conveyors

These chains are heavy duty cranked link roller chains with precision located log cradle attachments. They are used for the scanning and optimization of logs before the bandsaws.



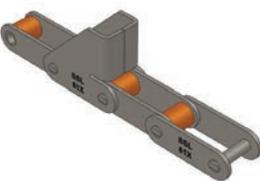
## Refuse Flight Chain

These chains are used for long sprocket centre distance conveying of refuse products in non-abrasive environments such as sawdust and woodchip conveyors. The chain is fitted with 100mm square low friction UHMWPE covered attachments to move the product.



## 81X Trimmer Chain

2.609" pitch 81X trimmer chain is used extensively on sawmill trim lines. It is a versatile, economical and light weight chain that can run at relatively high speeds. It is also available as Heavy Duty 81XH and Double Heavy Duty 81XHH. All 3 chains use the same diameter pin.

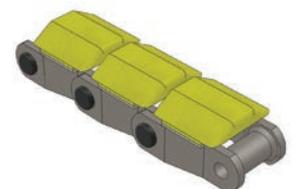


81X chain shown with pusher attachment fitted

## Roof Top Chains

Rooftop chains are available in a variety of sizes and shapes. Chain caps are available made from steel, rubber and plastic or with rollers for the lowest friction coefficient.

81X-A, 81X-R, 81X-UP  
WR78-UP, WR78-URT,  
WR78-4URT, WR78-RTN  
WR124-URT  
H78A, H78B, H130, H138



WR78-UP plastic top shown

This chain is also available in 304SS and 316SS for dip tank and other corrosive environments.



METRIC CHAINS

## SUPPLY SERVICES

performance engineering products



CAN-AM®

## CAN-AM CHAINS

# WEAR PLATE & PARTS

## ARMOUR-X™ Wear Plate

ARMOUR-X™ wear plate reduces costs by extending wear life and reducing installation frequency. The superior abrasion resistance of ARMOUR-X™ is achieved through 21st century alloy steel technology. The result is a formable, weldable wear plate in the 450BHN range that offers abrasion resistance almost twice that of conventional 500BHN grades.

## Polyslick™ XL (PE-UHMW)

Polyslick™ XL is the superlative abrasion resistant grade of Ultra High Molecular Weight (UHMW) Polyethylene. XL grade is further enhanced with either silicone (XLS) for release and slip, or with glass (GXL) for unparalleled wear resistance. POLYSLICK™ XL grades are UV stabilised and have reduced thermal expansion.

## ADCOMP® XPL Kiln Cart Bushes

### Extreme Duty

ADCOMP® XPL Extreme Duty kiln cart bushes offer far greater temperature resistance and load ratings than traditional heat stabilised nylon bushes. By extending bearing life and eliminating greasing, ADCOMP® XPL bushes can substantially reduce operating costs in modern high temperature lumber drying kilns.

## TRIMAY Wear Plate

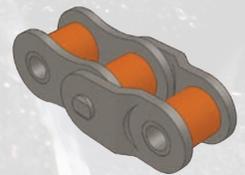
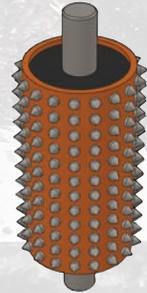
TRIMAY wear plate is an extremely tough bulk overlaid chromium wear plate designed for high abrasive wear applications and severe operating environments. Chromium and tungsten-chromium is overlaid onto a ductile steel backing which can be formed into curves (12mm plate down to 150mm radius). TRIMAY wear plate has outstanding wear resistance and a low coefficient of friction for material flow.

## Feed Roll Replacement Tips

Our feed roll replacement tips are manufactured from a high quality hard chrome alloy that exhibits excellent wear resistance qualities and are designed for use on debarker feed rolls, log turner rolls and log haul chain attachments. The tips are available in seven different sizes, including a Log Saver style to reduce severe piercing or penetration.

## Spare Parts

We carry a comprehensive stock of spare rivets, pins, links and attachments to support the chains our customers have on their sites.



2 pitch offset link for high strength

# ENGINEERING CLASS DRIVE CHAINS

Manufactured in specially heated treated carbon alloy steels, engineering class cranked link drive chains can stand breaking loads of up to almost 1,900kN. They are used widely in the manufacturing and construction industries.

Chain No:	882	1190	1244	1245	1248	5027
Pitch (mm)	66.3	78.1	103.2	103.45	103.2	127.0
Pin dia (mm)	11.1	16.5	22.25	23.81	22.25	31.75
Roller dia x width (mm)	22.23/26.98	31.75/37.5	44.45/47.75	45.24/47.75	44.45/47.75	63.5/69.4
Side bar height x thickness (mm)	28.58/6.35	44.45/9.5	54.1/12.7	60.3/14.3	57.2/12.7	88.9/15.9
UTS & WL (kN)	89.2/10.7	330/22.7	499.4/40.1	758.0/44.6	624.3/40.1	1156/75.1



## SUPPLY SERVICES

performance engineering products

# ULTRAPOLY

MANUFACTURERS OF HI-IMPACT UHMWPE

# ENGINEERING PLASTICS

## Rod, Tube & Sheet

Supply Services Ltd stocks a comprehensive range of engineering plastic stock shapes in a large range of materials such as: Polyurethane PE-HD, PE-HMW, PE-UHMW, Polypropylene, Nylon (natural, oil filled & MoS2 filled), Acetal, PET, Acrylic, Polycarbonate, PVC, PTFE, PEEK and Industrial Laminates.

## Chanex® Chain Track Profiles

Chanex chain track profiles are available for a wide variety of chain sizes. They are either standard extrusions or can be custom made.

For a more comprehensive overview of all the Engineering Plastic materials and products we supply please request a copy of one of the following brochures:

- Engineering Plastic Products
- Plastic Guide Rails & Wear Strips
- SLIPPERY-DECK® Liners
- Magna-Skin Magnetic Products
- Sharkfin Board Turning Systems
- Heavy Duty Bearing products

Supply Services Ltd offers a comprehensive welding, machining and fabrication facility.

## Machined & Fabricated Parts

Supply Services Ltd can manufacture a wide variety of parts from steel or plastic that you may require. Please send us your drawings.

## Guide Rails & Wear Strips

Various PE-UHMW profiles are available for the bottling and packaging industries. Stainless steel inserts are available that allow the profile to be welded into place. Others can be riveted down.

# SPROCKETS

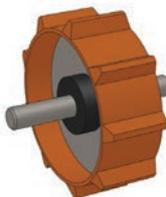
## ANSI & BS Roller Chain Sprockets

ANSI and BS roller chain sprockets can be supplied with teeth that are flame heat treated, case hardened, induction hardened or not hardened at all. The surface finish can be plain, painted, zinc plated or black passivated. Stock sprockets have induction hardened teeth and a black passivated finish as standard.



## Drag Chain Sprockets

Welded steel drag chain runs best on full width "can" type sprockets. Supply Services Ltd stocks through hardened full length teeth for long life.



## Plastic Sprockets for Bottling & Packaging Chains

Supply Services Ltd can supply a wide variety of plastic sprockets for flat top and multi-flex chains.



## Conveyor Chain Sprockets

Most semi-precision conveyor chains only require sprockets that have a flame cut profile. Supply Services Ltd will generally cut the profile to carefully match both the chain on hand and also the application it is being used for. Common materials are mild steel, CHT400 wear resistant steel or induction hardened C1045.



## 2.609" Pitch Uni-Sprockets

For 2.609" pitch chains such as 81X and WR78 Supply Services Ltd has a range of induction hardened sprockets or hard wearing Nylatron GSM plastic split sprockets on the shelf for immediate dispatch.



## Oregon Bends made from Chanex®

Oregon bends formed from PE-UHMW Chanex profiles are excellent low cost alternatives to sprockets on the bottom of board singulators. Various sizes are available for 81X and WR78 chains.



## SUPPLY SERVICES

performance engineering products

# SERVICES

CNC Turning (2 & 4 Axis)  
Conventional turning & milling  
Thickening  
Plastic fabrication

CNC Milling (3 & 4 Axis)  
CNC Billet cutting  
Custom profiles  
Plastic & metal welding

CNC Routering (3 & 5 Axis)  
Production keying  
Cut to size rod, tube & sheet  
Magnetic Particle Inspection NDT

## CONTACT

### Nationwide:

Sales Phone: 0800 102 112  
Website: [www.supplyservices.co.nz](http://www.supplyservices.co.nz)

### Auckland Branch:

Physical Address:  
Unit 23, 761 Great South Road  
Penrose  
Auckland 1061

Postal Address:  
PO Box 13 529  
Onehunga  
Auckland 1643

Phone: +64 9 589 1705  
Fax: +64 9 589 1704  
Email: [sales.akl@supplyservices.co.nz](mailto:sales.akl@supplyservices.co.nz)

### Mt Maunganui Branch (Head Office):

Physical Address:  
67 Newton St  
Mt Maunganui 3116

Postal Address:  
PO Box 4002  
Mt Maunganui 3149

Phone: +64 7 575 0125  
Fax: +64 7 575 0210  
Email: [sales.mtm@supplyservices.co.nz](mailto:sales.mtm@supplyservices.co.nz)

### Hamilton Contact:

Hamilton Area Sales Engineer  
Phone: 027 201 0025

### Christchurch Branch:

Physical Address:  
11 Dakota Cres  
Sockburn  
Christchurch 8042

Postal Address:  
PO Box 7497  
Sydenham  
Christchurch 8240

Phone: +64 3 341 7200  
Fax: +64 3 341 7300  
Email: [sales.chc@supplyservices.co.nz](mailto:sales.chc@supplyservices.co.nz)

### Disclaimer:

The information available in this document is accurate to the best of our knowledge and information contained therein is intended for general use only. Applications suggested for the materials are described only to help the reader make his own evaluation and decision, and are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications. We recommend written verification from the company with regard to specific applications, particularly those involving food grade compliance or risk to human life.

The CAN-AM CHAINS logo is the registered trademark of Cam Chain Co Ltd.  
The FB logo is the registered trademark of FB Ketjuteknikka Oy.  
The CHJC logo is the registered trademark of Zhejiang Hengjiu Machinery Group.  
The Ensinger logo is the registered trademark of Ensinger GmbH.  
The Polymer Industries & Ultrapoly logos are the registered trademarks of Polymer Industries Inc.  
ARMOUR-X, ADCOMP and the ADCOMP logo are registered trademarks of Supply Services Ltd.

Artwork provided by Ensinger and Supply Services Ltd.

**SUPPLY SERVICES**  
performance engineering products

