



HAMMER SMITH

WIRE BALUSTRADE SYSTEMS (EDITION 2)

WIRE BALUSTRADE SYSTEMS

Stainless steel wire balustrade is a great look, but trying to understand the different regulations, types of wire, range of fittings and various tools that are available can initially be quite daunting.

To try and make this process easier we have provided a written guide below, as well as combining the parts into a range of systems over the next 3 pages. If you still need some clarity, then please feel free to make contact with us via phone or email.

The first question we always ask someone is what is the maximum drop from the surface you are standing on to the ground below. If the answer is less than 1 metre, then the number of wires and tension required is not covered by any Australian Standard, and as a result you can do whatever you want.

If the answer is greater than 4 metres, then you are not allowed to do horizontal wire balustrade; but are allowed to do vertical wire balustrade. If this is the case, then we suggest that you contact us to get more info on what system would work best in this application.

If the drop is between 1 and 4 metres, then you need to comply with the Australian National Construction Code. Trying to get your head around how this code will impact on the number of wires required and the tension that they need to be under is quite a challenge, so we suggest you work to the following guidelines.

- Your handrail height needs to be a minimum of 1000mm (1.0 metre).
- Working on a gap of 960mm (underside of the handrail to the floor/deck), the maximum gap between each wire is 80mm, which means you will need 11 strands of wire.
- Using 3.2mm wire in either a 1x19 or 7x7 configuration, you will need to have a support post every 1500mm. The wire can run through these posts if it is in a straight line, and only needs to be fixed to the end posts.
- If the wire needs to change direction, then we suggest that you terminate the wire at this post, and restart it in the new direction.

If you follow these guidelines (and the ones specific to the systems on the next 3 pages), then you should have no issues in getting your new wire balustrade approved.

We also get regularly asked as to what is the difference between 1x19 and 7x7 wire. The 1x19 is a smoother, nicer looking wire and is more rigid (less flexible) than the 7x7. It also has a higher breaking strain. The 7x7 is not as nice a look or feel but is more flexible, which is important for the purpose of wrapping around a thimble (see System 3 and 4).

In simple terms, if you are using fittings that need to be crimped with a Hydraulic Swager (IF120X or IF119X) or Hex Hand Swager (IF135X), then always go with the 1x19 cable, as it looks the best.

WIRE BALUSTRADE SYSTEMS

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STAINLESS STEEL BALUSTRADE COMPONENTS

System 1



Fix To: Timber Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 2 x Coach Screw (SSW054-6 or SSW055-6), 1 x Bottle Screw (SSW050-6 or SSW051-6), 1 x Fork Terminal (SSW053-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X), Tensioning Spanner (IF133X).

Extra Info: Coach Screws could be swapped out for Saddles (SSW058-6).

System 2



Fix To: Metal Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 2 x Rivet Nut Right (IF127X), 2 x Eye Bolt (SSW057-6), 1 x Bottle Screw (SSW050-6 or SSW051-6), 1 x Fork Terminal (SSW053-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Rivet Nut Inserter (IF124X), Wire Cutter (IF122X), Tensioning Spanner (IF133X).

Extra Info: The rivet nut will work on a wall thickness of between 0.7 and 4mm. Also, Rivet Nuts and Eye Bolts could be swapped out for Saddles (SSW058-6)

System 3



Fix To: Timber or Metal Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 7x7. Can't use 3.2mm 1x19, as it is too rigid and won't smoothly loop around the thimble.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 2 x Saddle (SSW058-6), 2 x Thimble (SSW061-6), 2 x Ferrule (SSW060-6), 1 x Bottle Screw (SSW059-6).

Tools Required: Hand Swager and Cutter (IF134X), Tensioning Spanner (IF133X).

System 4



Fix To: Metal Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 7x7. Can't use 3.2mm 1x19, as it is too rigid and won't smoothly loop around the thimble.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 2 x Rivet Nut Right (IF127X), 2 x Eye Bolt (SSW057-6), 2 x Thimble (SSW061-6), 2 x Ferrule (SSW060-6), 1 x Bottle Screw (SSW059-6).

Tools Required: Hand Swager and Cutter (IF134X), Rivet Nut Inserter (IF124X), Tensioning Spanner (IF133X).

Extra Info: The rivet nut will work on a wall thickness of between 0.7 and 4mm.



WIRE BALUSTRADE SYSTEMS

System 5



Fix To: Timber Posts. Maximum straight line run length is 6 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 1 x Lag Terminal Right (SSW052-6), 1 x Lag Terminal Left (SSW069-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X), Tensioning Spanner x 2 (IF133X).

Extra Info: Tensioning the wire is a 2 person job. You need to be synchronized when winding the terminals into the posts.

System 6



Fix To: Timber Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19, but can also use 3.2mm 7x7.

Suitable For: Horizontal and Angled (Stair) Balustrade.

Fittings Required: 1 x Lag Terminal Right (SSW052-6), 1 x Bottle Screw (SSW049-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X), Tensioning Spanner (IF133X).

System 7



Fix To: Timber Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 7x7.

Suitable For: Horizontal Balustrade.

Fittings Required: 1 x Threaded Insert Right (SSW047-6), 1 x Threaded Insert Left (SSW048-6),

1 x Threaded Terminal Right (SSW056-6), 1 x Threaded Terminal Left (SSW070-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X), Tensioning Spanner x 2 (IF133X).

Extra Info: Tensioning the wire is a 2 person job. You need to be synchronized when winding the terminals into the inserts. This system can also be used for angled (stair) balustrade, but to do so you will need to add the Swivel Connector Right (SSW043-6) and Swivel Connector Left (SSW044-6).

System 8



Fix To: Metal Posts. Maximum straight line run length is 6 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal Balustrade.

Fittings Required: 1 x Rivet Nut Right (IF127X), 1 x Rivet Nut Left (IF138X), 1 x Thread Terminal Right (SSW056-6),

1 x Thread Terminal Left (SSW070-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Rivet Nut Inserter (IF124X), Wire Cutter (IF122X), Tensioning Spanner x 2 (IF133X).

Extra Info: Tensioning the wire is a 2 person Job. You need to be synchronized when winding the terminals into the rivet nuts. The rivet nut will work on a wall thickness of between 0.7 and 4mm. This system can also be used for angled (stair) balustrade, but to do so you will need to add the Swivel Connector Right (SSW043-6) and Swivel Connector Left (SSW044-6) or another option is to swap out the Rivet Nuts (Right and Left) for the Flip Lock Connector Right (SSW045-6) and Flip Lock Connector Left (SSW046-6).



WIRE BALUSTRADE SYSTEMS

System 9



Fix To: Timber or Metal Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal Balustrade.

Fittings Required: 1 x Dome Terminal (SSW071-6), 1 x Thread Terminal Right (SSW056-6), 1 x Hex Head Tensioner (SSW072-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X).

Extra Info: Unlike all the other systems that fits to the inside face of the posts, this one fastens from the outside face of the posts. This system can also be used for angled (stair) balustrade, but to do so you will need to add the 37 degree Large Collar (SSW086-6 or SSW088-6) and 37 degree Small Collar (SSW085-6 or SSW087-6). The different collars are based on the type of surface you are fixing to (flat or round). Refer pg 43 for more info.

System 10



Fix To: Metal (Hollow) Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal Balustrade.

Fittings Required: 1 x Swage Terminal (SSW065-6), 1 x Flip Toggle (SSW073-6), 1 x Thread Terminal Right (SSW056-6), 1 x Hex Head Tensioner (SSW072-6).

Tools Required: Hydraulic Swager (IF120X or IF119X), Wire Cutter (IF122X).

Extra Info: The Flip Toggle is inserted into a metal post, then it flips to 90 degrees and grabs onto the inside surface of the post. The other end of the wire fixes to the outside of the posts (as per System 9). This system can also be used for angled (stair) balustrade, but to do so you will need to add the 37 degree Large Collar (SSW086-6 or SSW088-6). The different collars are based on the type of surface you are fixing to (flat or round). Refer pg 43 for more info.

System 11



Fix To: Timber Posts. Maximum straight line run length is 10 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal Balustrade.

Fittings Required: 2 x Threaded Insert (SSW063-6), 2 x Swage Terminal (SSW065-6), 1 x Tension Rod (SSW066-6), 1 x Finishing Cap (SSW067-6), 1 x Stop Bolt (SSW068-6).

Tools Required: Hex Hand Swager (IF135X), Wire Cutter (IF122X), Tensioning Spanner (IF133X).

System 12



Fix To: Metal Posts. Maximum straight line run length is 6 metres.

Best Wire: 3.2mm 1x19; but can also use 3.2mm 7x7.

Suitable For: Horizontal Balustrade

Fittings Required: 2 x Rivet Nut (SSW064-6), 2 x Swage Terminal (SSW065-6), 1 x Tension Rod (SSW066-6), 1 x Finishing Cap (SSW067-6), 1 Stop Bolt (SSW068-6).

Tools Required: Hex Hand Swager (IF135X), Rivet Nut Inserter (IF124X), Wire Cutter (IF122X), Tensioning Spanner (IF133X).



WIRE CABLE & BALUSTRADE FITTINGS



3.2mm Ø 1x19 WIRE CABLE ROPE

- 316 STAINLESS STEEL

CODE	LENGTH
SSW001E-050	50 metre REEL
SSW001E-100	100 metre REEL
SSW001E-305	305 metre REEL
SSW001-M	Per METRE



3.2mm Ø 7x7 WIRE CABLE ROPE

- 316 STAINLESS STEEL

CODE	LENGTH
SSW020E-050	50 metre REEL
SSW020E-100	100 metre REEL
SSW020E-305	305 metre REEL
SSW020-M	Per METRE



4.0mm Ø 1x19 WIRE CABLE ROPE

- 316 STAINLESS STEEL

CODE	LENGTH
SSW010-305	305 metre REEL
SSW010-M	Per METRE



LONG FORK BOTTLE SCREW

- 316 STAINLESS STEEL
- MINIMUM LENGTH 160mm. MAXIMUM LENGTH 225mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW050-6	3.2mm
SSW100-6	4.0mm



FORK TERMINAL

- 316 STAINLESS STEEL
- OVERALL LENGTH 75mm
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW053-6	3.2mm
SSW101-6	4.0mm



WIRE BALUSTRADE FITTINGS

SHORT FORK BOTTLE SCREW



- 316 STAINLESS STEEL
- MINIMUM LENGTH 115mm. MAXIMUM LENGTH 155mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW051-6	3.2mm

LAG BOTTLE SCREW



- 316 STAINLESS STEEL
- MINIMUM LENGTH 195mm. MAXIMUM LENGTH 260mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW049-6	3.2mm

LAG TERMINAL



- 316 STAINLESS STEEL
- OVERALL LENGTH 90mm. THREAD LENGTH 40mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER	THREAD DIRECTION
SSW052-6	3.2mm	RIGHT
SSW069-6	3.2mm	LEFT

THREAD M6 TERMINAL



- 316 STAINLESS STEEL
- OVERALL LENGTH 90mm. THREAD LENGTH 40mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER	THREAD DIRECTION
SSW056-6	3.2mm	RIGHT
SSW070-6	3.2mm	LEFT

BOTTLE SCREW (FORK BOTH ENDS)



- 316 STAINLESS STEEL
- MINIMUM LENGTH 135mm. MAXIMUM LENGTH 195mm.
- YOU NEED A HAND SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW059-6	3.2mm



WIRE BALUSTRADE FITTINGS



COACH SCREW

- 316 STAINLESS STEEL

CODE	LENGTH (EXCLUDING EYELET)
SSW054-6	40mm
SSW055-6	60mm



EYE BOLT

- 316 STAINLESS STEEL
- M6 THREAD x 10mm LENGTH

CODE
SSW057-6



SADDLE

- 316 STAINLESS STEEL

CODE
SSW058-6



FERRULE

- NICKEL PLATED COPPER
- SUITED TO 7x7 WIRE

CODE	WIRE DIAMETER
SSW060-6	3.2mm



THIMBLE

- 316 STAINLESS STEEL
- SUITED TO 7x7 WIRE

CODE	WIRE DIAMETER
SSW061-6	3.2mm

WIRE BALUSTRADE FITTINGS



SWIVEL CONNECTORS

- 316 STAINLESS STEEL
- OVERALL LENGTH 70mm. THREAD LENGTH 20mm.
- USE WITH SYSTEM 7 AND 8 WHEN ANGLED (STAIR) BALUSTRADE IS NEEDED.

CODE	THREAD DIRECTION AND SIZE
SSW043-6	RIGHT M6
SSW044-6	LEFT M6



FLIP LOCK NUT

- 316 STAINLESS STEEL
- OVERALL LENGTH 45mm.
- PERFECT FOR SYSTEM 8 WHEN NOT WANTING TO USE M6 RIVET NUTS (PG 11).

CODE	THREAD DIRECTION AND SIZE
SSW045-6	RIGHT M6
SSW046-6	LEFT M6



M6 THREADED INSERT for TIMBER

- 304 STAINLESS STEEL
- OVERALL LENGTH 30mm.

CODE	THREAD DIRECTION AND SIZE
SSW047-6	RIGHT M6
SSW048-6	LEFT M6



DOME HEAD TERMINAL

- 316 STAINLESS STEEL
- OVERALL LENGTH 30mm.
- YOU NEED A HYDRAULIC SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING

CODE	WIRE DIAMETER
SSW071-6	3.2mm



HEX HEAD TENSIONER

- 316 STAINLESS STEEL
- OVERALL LENGTH 30mm.

CODE	THREAD SIZE
SSW072-6	M6



WIRE BALUSTRADE FITTINGS



RAPID-LOCK RELEASE KEY

- 316 STAINLESS STEEL

CODE

SSW074-6



RAPID-LOCK TERMINAL

- 316 STAINLESS STEEL
- OVERALL LENGTH 70mm. THREAD LENGTH 35mm (M6)
- THE WIRE IS HELD IN PLACE BY SPRING LOADED JAWS. TO RELEASE THE WIRE YOU WILL NEED THE RELEASE KEY (SEE ABOVE)

CODE

SSW076-6

WIRE DIAMETER

3.2mm



ANGLE BRACKET

- 316 STAINLESS STEEL
- LENGTH OF LONG SIDE IS 65mm. THE SHORT SIDE IS 50mm
- SLOT IS LARGE ENOUGH TO TAKE AN M6 THREAD

CODE

SSW093-6



SWAGELESS FORK BOTTLE SCREW

- 316 STAINLESS STEEL
- MINIMUM LENGTH 165mm. MAXIMUM LENGTH 235mm.
- NO SWAGER REQUIRED, JUST AN ADJUSTABLE SPANNER IS ALL THAT IS NEEDED TO FASTEN THE WIRE TO THE FITTING

CODE

SSW075-6

WIRE DIAMETER

3.2mm



SWAGELESS FORK TERMINAL

- 316 STAINLESS STEEL
- OVERALL LENGTH 80mm
- NO SWAGER REQUIRED, JUST AN ADJUSTABLE SPANNER IS ALL THAT IS NEEDED TO FASTEN THE WIRE TO THE FITTING

CODE

SSW078-6

WIRE DIAMETER

3.2mm



WIRE BALUSTRADE FITTINGS



FLIP TOGGLE

- 304 STAINLESS STEEL
- WORKS IN CONJUNCTION WITH THE SWAGE TERMINAL (PG 12)

CODE	WIRE DIAMETER
SSW073-6	3.2mm



37° COLLARS (ANGLED STAIR BALUSTRADE)

- SMALL COLLARS GO WITH DOME HEAD TERMINAL (PG 9)
- LARGE COLLARS GO WITH HEX HEAD TENSIONER (PG 9)

CODE	SIZE	FIXES TO
SSW085-6	SMALL	FLAT SURFACE
SSW086-6	LARGE	FLAT SURFACE
SSW087-6	SMALL	ROUND SURFACE
SSW088-6	LARGE	ROUND SURFACE



GROMMETS

- UV RESISTANT PVC
- FOR DRILL SIZE 11/32" (8.7mm)

CODE	COLOUR
SSW062-BK	BLACK
SSW062-GR	GREY



M6 RIVET NUT

- 304 STAINLESS STEEL
- WORKS WITH A WALL THICKNESS FROM 0.7mm TO 4.0mm
- USE THE RIVET NUT INSERTER (PG 14) TO FIX TO POST

CODE	THREAD DIRECTION AND SIZE
IF127X	RIGHT M6
IF138X	LEFT M6



M8 RIVET NUT

- 304 STAINLESS STEEL
- WORKS WITH A WALL THICKNESS FROM 0.5mm TO 3.0mm
- USE THE RIVET NUT INSERTER (PG 14) TO FIX TO POST

CODE	THREAD DIRECTION AND SIZE
SSW064-6	RIGHT M8



WIRE BALUSTRADE FITTINGS



M8 THREADED INSERT for TIMBER

- 304 STAINLESS STEEL
- OVERALL LENGTH 32mm.

CODE

SSW063-6

WIRE DIAMETER

3.2mm



SWAGE TERMINAL

- 316 STAINLESS STEEL
- OVERALL LENGTH 25mm
- YOU NEED A HEX HAND SWAGER (PG 14) TO SECURE WIRE TO THE END OF THIS FITTING (IT WILL ALSO WORK WITH A HYDRUALIC SWAGER)

CODE

SSW065-6

WIRE DIAMETER

3.2mm



M8 TENSION ROD

- 304 STAINLESS STEEL
- OVERALL LENGTH 35mm. THREAD SIZE IS M8.

CODE

SSW066-6

WIRE DIAMETER

3.2mm



M8 FINISHING CAP

- 316 STAINLESS STEEL
- OVERALL LENGTH 25mm.
- FITS OVER THE M8 TENSION ROD (ABOVE).

CODE

SSW067-6

WIRE DIAMETER

3.2mm



M8 STOP BOLT

- 316 STAINLESS STEEL
- OVERALL LENGTH 22mm.

CODE

SSW068-6

WIRE DIAMETER

3.2mm



WIRE BALUSTRADE FITTINGS

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STAINLESS STEEL BALUSTRADE COMPONENTS



GREEN WALL POST

- 316 STAINLESS STEEL
- OVERALL LENGTH 100mm
- M8 INTERNAL THREAD

CODE

SSW089-6



M8 LAG SCREW for GREEN WALL POST

- 316 STAINLESS STEEL
- USED TO SECURE THE GREEN WALL POST (ABOVE) TO A BRICK (WITH PLUG) OR TIMBER SURFACE.

CODE

SSW090-6



CROSS WIRE CONNECTOR

- 316 STAINLESS STEEL
- SUITS 3.2mm WIRE CABLE

CODE

SSW091-6



PLASTIC END CAP for 3.2mm WIRE

- FITS ON THE END OF 3.2mm WIRE CABLE

CODE

SSW092-BK

COLOUR

BLACK



SPANNER TO FASTEN GREEN WALL POST

- HANDY TOOL FOR FASTENING THE GREEN WALL POST

CODE

IF137X



WIRE BALUSTRADE TOOLS



IF119X



IF120X

HYDRAULIC SWAGER

- USED TO SWAGE FITTINGS THAT TAKE 3.2 & 4mm WIRE

CODE

DESCRIPTION (OUTPUT)

IF119X

MINI (MAX 5 TONNE OUTPUT)

IF120X

PRO (MAX 8 TONNE OUTPUT)



HAND SWAGER WITH CUTTER

- USED TO SWAGE FERRULE ON PAGE 7
- HAS A BUILT-IN CUTTER FOR CUTTING 3.2mm WIRE

CODE

IF134X



HEX HAND SWAGER

- USED TO SECURE THE SWAGE TERMINAL ON PAGE 44 TO 3.2mm WIRE

CODE

IF135X



RIVET NUT INSERTER

- SUPPLIED WITH RIGHT HAND THREAD MANDRELS IN M4, M5, M8, M8 AND M10
- NO LEFT HAND MANDRELS COME WITH THIS TOOL, BUT THEY CAN BE PURCHASED SEPARATELY (SEE BELOW)

CODE

IF124X



RIVET NUT MANDREL

- SUITS THE RIVET NUT INSERTER
- THE LEFT HAND THREAD MANDREL DOES NOT COME WITH THE RIVET NUT INSERTER TOOL, SO IF DOING SYSTEM 8 (PG 4), IT WILL NEED TO BE ORDERED AS WELL AS THE TOOL.

CODE

THREAD DIRECTION AND SIZE

IF112X

RIGHT M6

IF113X

LEFT M6



WIRE BALUSTRADE TOOLS

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STAINLESS STEEL BALUSTRADE COMPONENTS



WIRE CABLE ROPE CUTTER

- CUTS WIRE UP TO 4mm THICK

CODE

IF122X



COACH SCREW DRIVE BIT

- USED FOR DRIVING COACH SCREWS ON PAGE 40 INTO TIMBER POSTS

CODE

IF114X



WIRE CABLE TENSION GAUGE

- MAKE SURE YOUR WIRE BALUSTRADE IS TENSIONED TO THE NECESSARY LEVEL TO MEET AUSTRALIAN STANDARDS

CODE

IF125X



SPANNER for WIRE CABLE FITTINGS

- THIS HANDY SPANNER MAKES EASY WORK OF INSTALLING AND TENSIONING MANY OF THE WIRE BALUSTRADE FITTINGS

CODE

IF133X



PEEK STAINLESS STEEL POLISH

- KEEP YOUR STAINLESS WIRE, TUBE AND FITTINGS LOOKING GOOD

CODE

IF115X



ABOUT HAMMERSMITH

Hammersmith Woodturners Pty. Ltd. opened for business back in 1946 when E.J. (Ted) Groth, a toolmaker by trade, started a small hand wood turning business in his back yard, manufacturing wooden souvenirs and turnings for the furniture trade.

In the early years the growth of the business was helped greatly by the 1956 Melbourne Olympics, and the use of wooden legs on the bottom of television sets.

The company purchased their first automated wood turning lathe in 1962, and have now expanded their collection to well over 20.

Drawing on his experience as a toolmaker, and having a fully equipped tool room, Ted was not only able to maintain and repair all specialised wood turning equipment, but also build machines to do special processes in cutting down on costly hand finishing.

In 1966 his son, Geoff, joined the business. After spending over 20 years in production and sales, Geoff went on to manage the company until his retirement in 2012. It was Geoff's early efforts "on the road" that helped the company expand into the many different areas that it is involved in today, including the building, staircase, and furniture industries throughout all parts of Australia.

Then in 1995, Geoff's son, Wyatt, became the third generation to work in this successful family business. Like his father, Wyatt has concentrated his efforts in customer relations, including the setting up of office and factory systems to ensure the customer's demands can be met both quickly and accurately. In 2012 Wyatt took over the role of managing of the business after his father retired.

In 2010, Wyatt's wife, Michelle, joined the company. Initially taking on the role as receptionist as well as marketing, but more recently has moved into managing accounts and payroll.

In recent years the decline in popularity of wood turnings has resulted in even more changes to the types of products manufactured; and now with 75 years of business behind them, they are a 100% freehold company that employs around 15 people; and whilst their past doesn't guarantee a future it certainly goes a long way to doing so.

HAVE YOU SEEN OUR WEBSITE?

- It contains all of the products in this catalogue, as well as a few extra that are available online only.
- Larger photographs and detailed dimensioned drawings can be viewed for nearly all products.
- The most current pricing for all products.
- Current news stories about custom jobs that we have done or new products that we have just released.

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