

# EVERYTHING A JEWELLER NEEDS IN CASTING & MOULDING



The Peter W Beck company is a long standing, privately owned and operated Australian business which continues to be developed and managed by our founder Peter Beck.

Over the course of 35 plus years, Peter W Beck has gained the reputation of being the Australian jewellery industry leader in precious metal products and services.

Peter W Beck's rigorous quality standards continue to improve through the ongoing integration of industry leading technologies. The industry benchmark set by Peter W Beck is driven higher by the knowledge and skill sets of a highly specialised and dedicated staff.

It's all part of a 35 year reputation built on trust, accuracy and reliability, focused on ultimately ... being everything a jeweller needs.



For more than 20 years, our Casting Department has been dedicated to, and specialising in, the casting of Gold, Silver, Platinum and Palladium jewellery products.

Quality and consistency are assured by using only the purest of raw materials, the latest casting technology and an experienced team of dedicated technicians that are able to tackle the most difficult casting jobs.

Through ongoing research and development of alloys and processes we are able to provide a wide range of casting solutions, including specialised casting alloys, HTV and RTV moulding service, wax resizing and design confidentiality.

From a single cast to multiple runs for mass production, from a metal master to a hand carved wax or a CAD produced master, our aim is to be the premium supplier of quality precious metal casting services to the jewellery industry.



Peter W Beck’s range of casting alloys has been developed with the manufacturing jewellers’ needs in mind. Wherever possible, we have created an alloy which can be resized, hammered easily, stone set or even remelted and worked like a fabrication alloy.

## Gold Casting Alloys

### 22 Carat Gold Casting Alloy

Code	Description	Colour
22YC	22ct Yellow Casting	Royal Yellow

### 18 Carat Gold Casting Alloys

Code	Description	Colour
18YC	18ct Yellow Casting	Rich Yellow
18PC	18ct Pink Casting	Yellow Pink
18WC	18ct White Casting	Grey White YI 31

### 14 Carat Gold Casting Alloys

Code	Description	Colour
14YC	14ct Yellow Casting	Yellow
14PC	14ct Pink Casting	Pink
14WC	14ct White Casting	Grey White YI 19

### 10 Carat Gold Casting Alloy

Code	Description	Colour
10YC	10ct Yellow Casting	Warm Yellow

### 9 Carat Gold Casting Alloys

Code	Description	Colour
9YC	9ct Yellow Casting	Warm Yellow
9PC	9ct Pink Casting	Pink Red
9WC	9ct White Casting	White YI 14

## Silver, Platinum & Palladium Casting Alloys

### Silver Casting Alloy

Code	Description	Colour
925AG1C	925 Oxide Resistant Silver Casting	White
SSC	925 Sterling Silver Casting	White

### Platinum Casting Alloys

Code	Description	Colour
PT9501C	95% Platinum/Palladium Casting	White

### Palladium Casting Alloy

Code	Description	Colour
PD950AGC	95% Palladium/Silver Casting	White

### Platinum and Palladium Casting

Peter W Beck has world leading casting technology with the ability to produce Platinum and Palladium castings to the highest standard. Our high quality Platinum and Palladium castings are cleanly finished with precise definition. Peter W Beck will also automatically grind Platinum and Palladium sprues so we minimise waste.

## 3D Printing Service

Peter W Beck is now proud to offer a rapid wax printing and casting service. Whether you need a production run of 1,000 units or just a one off print, we have the capabilities to service your needs.

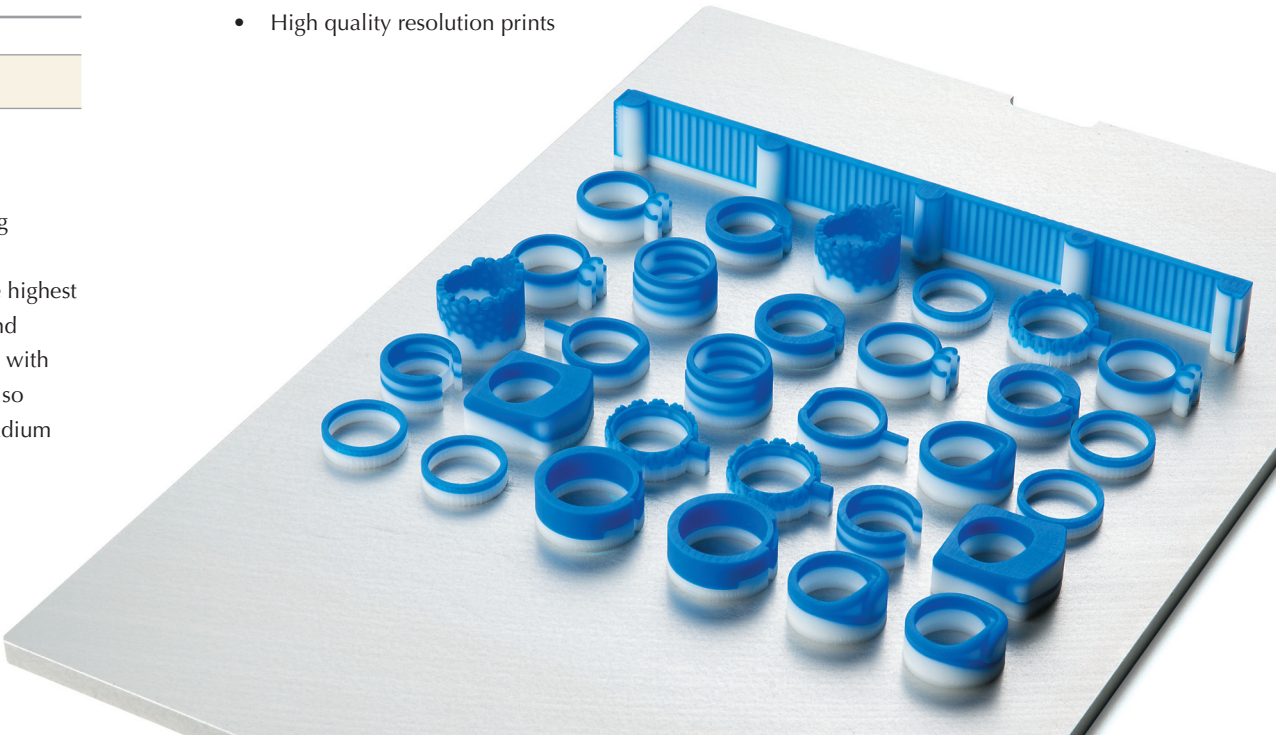
The Peter W Beck premium prototyping service utilises leading edge technology ensuring a smooth clean finish for all types of products. Our friendly and efficient Customer Service Team is always available to help you with your plotting needs and will ensure that you receive the best service at the highest standard, every time.

- 5 day print and cast turnaround
- No more broken prints during postage
- No fuss system, just email us your STL or SLC file and let us do the rest
- High quality resolution prints

NB: Please ensure you provide error free STL or SLC files. While our software can detect and repair small errors we cannot guarantee a quality print if the file has errors. To reduce any unexpected results, the Precious Metal Services Team will look over your files to double check your model's integrity, however Peter W Beck will not be held responsible for any errors found in STL or SLC files. If there are any foreseeable problems we will contact you before we produce your piece.

To check for errors we recommend you use freely available file viewers such as Mini Magics.

We assure your privacy and confidentiality. Your files remain on file with us for only 90 days and are then destroyed. Please keep backup files of designs in your possession for your records and future jobs.





# SERVICES



## Sprue Grinding

This service offers the benefit of reducing metal costs as our skilled technicians can expertly grind away 95% of the excess metal on your cast items.

- Providing reduction in metal costs
- Reduction of your labour costs

## Pin Tumbling

For the jeweller who needs to achieve a shiny surface in those hard to reach places. Our casting team can use our magnetic pin tumbler to get in behind settings and galleries.

## Sand Blasting

This service is for the jeweller who needs a sand blasted surface without the expense of owning your own unit.

## Wax Resizing

Our casting technicians can expertly resize injected waxes before they are cast. We provide a neat resizing and can also fill carat stamps, hollowed out sections or hide blemishes prior to casting if requested.

- Reduction in metal costs
- Reduction in your labour costs



## Moulding Service

Your master can either be high temperature vulcanized or room temperature vulcanized depending on the material your master is made from. We have several moulding materials available to allow the most suitable option for your master. Your mould is your property so you have a choice on whether it is returned to you or stored in our mould library. There are no storage costs for this service. We have a strict confidentiality policy for all moulds kept on our premises ensuring only you will have access to your design.



# Important information

## Cast finish

To ensure your castings are of the highest quality they are cleaned by a bead blasting process, which removes oxides and surface contamination. This process guarantees that upon visual inspection we are able to easily detect any faults. As a result we deliver you a high quality product with a clean skin ready for final finishing. The sprues are trimmed as close as practical to the piece avoiding distortion damage and ensuring you receive only the metal you require.

## Customers' own metal

You can supply us with your own alloy if you prefer. We will cast the tree for you and return it to you bead blasted (cleaned) and intact. When casting in your alloy we are unable to offer the same quality guarantee that naturally comes with our own metals however, we will provide you with the same quality service, employing all our skills and technology available so you receive the best possible results.



## Mould sizes available

The mould frame sizes detailed below represent the most common sizes used. Please contact our Precious Metal Services Department for assistance on mould frame sizes.

Standard product dimensions to meet our mould sizes are listed below. (millimetres)

37 x 53 x 10	65 x 55 x 32
37 x 80 x 10	90 x 80 x 17
37 x 53 x 17	65 x 75 x 32
65 x 55 x 12	80 x 110 x 17
50 x 70 x 10	85 x 140 x 17
37 x 53 x 24	90 x 80 x 32
37 x 80 x 17	85 x 105 x 32
65 x 55 x 17	85 x 95 x 32
75 x 65 x 17	80 x 110 x 32
80 x 70 x 24	90 x 110 x 30

Other mould sizes are available.

## Mould library

Customers are invited to store their moulds with us in our mould library. There are no storage costs for this service. Having moulds stored in the Peter W Beck mould library will speed up delivery times of castings ordered. Moulds stored are kept securely and are tracked with a unique code given to each mould.

NB: To obtain an optimum casting, please call our Precious Metal Services Team on 1800 888 590 for information on how to ensure your piece is finished to the highest standard.



## Calculating metal weight from a wax using density

Alloy	Conversion Factor (Density)
22Y	17.90
18Y	15.50
18P	15.20
18W	15.70
14Y	13.00
14P	13.10
14W	14.20
10Y	11.50
9Y	11.20
9P	11.30
9W	12.60
SS	10.30
PLAT	20.70
PALL	11.80





## How to order an item for casting

### When supplying a wax, please include:

1. Your account code or your contact details
2. Nominate which alloy you would like it cast in

### When supplying a mould, please include:

1. Your account code or your contact details
2. The number of castings you would like
3. Nominate which alloy you would like it cast in

### When supplying a master, please include:

1. Your account code or your contact details
2. The number of moulds you require and if you would like us to store them
3. The moulding material if you have a preference (we would prefer to choose the appropriate moulding compound dependant on the style of the finished cast or the composition of the master)
4. The number of castings you would like
5. Nominate which alloy you would like it cast in

### When using a mould stored in our library

If you have a mould stored in our mould library, please phone our friendly Customer Service staff so we can assist you with the ordering process. You may prefer to email or fax your order through, including your unique code and mould number.



## Contact

### Adelaide Head Office

14 Duncan Court,  
Ottoway Park SA 5013, Australia

Toll Free 1800 888 590  
Telephone 08 8440 3399  
Fax 08 8447 1144  
Email [preciousmetals@pwbeck.com.au](mailto:preciousmetals@pwbeck.com.au)

### Brisbane Sales Office

Suite 5, Level 4, 141 Queen Street,  
Brisbane QLD 4000, Australia

Telephone 07 3316 2000  
Fax 07 3012 8749  
Email [brisbane@pwbeck.com.au](mailto:brisbane@pwbeck.com.au)

### Perth Sales Office

Level 3, 105 St Georges Terrace  
Perth WA 6000, Australia

Telephone 08 9481 7388  
Fax 08 9481 6778  
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