

SMALL TROY OUNCE BARS

INTERNATIONAL

This supplement covers standard **small cast and minted bars** – that are denominated in **troy ounces** (20 oz and less).

They are issued by refiners and issuers, whose “good delivery” bars are accepted by one or more of the associations and exchanges in **London, New York, Tokyo, Dubai and Istanbul**.

The supplement will be expanded over time as more information and photographs become available.

For background information, refer to the two sections listed under “Basic Information” on the home page: “Smaller Cast Bars”, and “Accredited Bar Manufacturers” – **where the accreditation status of each refiner and brand is recorded**.

SURVEY

At this stage, the survey covers 61 (73%) of the 83 refiners and brands that are accredited to one or more of the 5 associations and exchanges.

In summary:

- Only 2 of the 61 surveyed refiners and issuers issue small cast bars in troy ounces: The Perth Mint (Australia) – range of 6 bars, and Johnson Matthey (USA) – 10 oz bar.
- Only 13 issue **minted bars** in troy ounces. In total, 33 bars in rectangular, square, round and oval shapes from 6 countries.
- The most widely manufactured minted troy ounce weight is the 1 oz. Most are produced in Switzerland for the international market.

Terminology: In some countries, “minted bars” are referred to as “minted products”, or as “coins” when the shape is round, notably in the Indian Sub-continent and Middle East.



The Perth Mint (Australia) issues the most extensive range of small cast bars in troy ounces.



Argor-Heraeus
Switzerland

Minted 1 oz bars are widely manufactured for the international market.



PAMP (Switzerland) launched its 1 oz oval minted product in 1990.



Valcambi (Switzerland) launched its round 1 oz “coin” in 2005.



Range – small cast bars

Country	Refiner	Small cast bars – in Troy ounces						Total
USA	Johnson Matthey	-	10 oz	-	-	-	-	1
Australia	The Perth Mint	20 oz	10 oz	5 oz	2.5 oz	1 oz	1/2 oz	6
TOTAL		1	2	1	1	1	1	7

Range – minted bars

Country	Refiner or Issuer	Minted bars – in Troy ounces						Total
Rectangular								
Belgium	Umicore#	-	-	1 oz	-	-	-	1
Germany	Commerzbank	-	-	1 oz	-	-	-	1
Germany	Heraeus	-	-	1 oz	-	-	-	1
Switzerland	Argor-Heraeus	-	-	1 oz	1/2 oz	1/4 oz	-	3
Switzerland	Credit Suisse*	10 oz	-	1 oz	-	-	-	2
Switzerland	Metalor	-	-	1 oz	-	-	-	1
Switzerland	PAMP	10 oz	5 oz	1 oz	1/2 oz	-	-	4
Switzerland	UBS*	-	-	1 oz	-	-	-	1
Switzerland	Valcambi	-	-	1 oz (2)	1/2 oz	-	-	3
Canada	Royal Canadian Mint	10 oz	5 oz	1 oz	-	-	-	3
UAE	Emirates Gold	-	-	1 oz	1/2 oz	-	-	2
Australia	The Perth Mint	10 oz	-	1 oz	-	-	-	2
Round								
Switzerland	PAMP	-	-	1 oz	1/2 oz	1/4 oz	1/10 oz	4
Switzerland	Valcambi	-	-	1 oz	1/2 oz	-	-	2
Oval								
Switzerland	PAMP	-	-	1 oz	1/2 oz	1/4 oz	-	3
TOTAL		4	2	16	7	3	1	33

Source: Refiners and issuers # Umicore’s minted bars are manufactured by Schöne (Netherlands), its subsidiary accredited refinery in Amsterdam. * Credit Suisse minted bars are manufactured by Valcambi, UBS minted bars by Argor-Heraeus.

TECHNICAL DESCRIPTION

Country	Refiner or Issuer	Weight	Type	Fineness	Shape	Dimensions mm	First Issued*	Illustration Page
USA	Johnson Matthey	10 oz	Cast	999.9	Rectangular	72 x 36 x 7	2010	4
Australia	The Perth Mint	20 oz	Cast	999.9	Rectangular	59 x 29 x 21	1989	4
Australia	The Perth Mint	10 oz	Cast	999.9	Rectangular	47 x 21 x 15	1989	4
Australia	The Perth Mint	5 oz	Cast	999.9	Rectangular	36 x 18 x 12	1989	4
Australia	The Perth Mint	2 1/2 oz	Cast	999.9	Rectangular	35 x 17 x 7	1989	4
Australia	The Perth Mint	1 oz	Cast	999.9	Square	19 x 19 x 5	1976	4
Australia	The Perth Mint	1/2 oz	Cast	999.9	Round	16 x 16 x 5	1976	4
Switzerland	Credit Suisse	10 oz	Minted	999.9	Rectangular	59.4 x 34.4 x 8.8	1967	5
Switzerland	PAMP	10 oz	Minted	999.9	Rectangular	60 x 35 x 8.3	2004	5
Canada	Royal Canadian Mint	10 oz	Minted	999.9	Rectangular	60 x 35 x 8	2003	5
Australia	The Perth Mint	10 oz	Minted	999.9	Rectangular	58 x 37	2010	5
Switzerland	PAMP	5 oz	Minted	999.9	Rectangular	60 x 35 x 3.79	2004	5
Canada	Royal Canadian Mint	5 oz	Minted	999.9	Rectangular	50 x 25 x 7	2003	5
Belgium	Umicore	1 oz	Minted	999.9	Rectangular	42 x 24 x 1.7	2006	6
Germany	Commerzbank	1 oz	Minted	999.9	Rectangular	40.4 x 23.3 x 1.75	1999	6
Germany	Heraeus	1 oz	Minted	999.9	Rectangular	40.4 x 23.3 x 1.75	2001	6
Switzerland	Argor-Heraeus	1 oz	Minted	999.9	Rectangular	40.4 x 23.3 x 1.75	1979	6
Switzerland	Credit Suisse	1 oz	Minted	999.9	Rectangular	41 x 24 x 1.9	1967	6
Switzerland	Metalor	1 oz	Minted	999.9	Rectangular	41 x 24 x 1.9	2011	-



Country	Refiner or Issuer	Weight	Type	Fineness	Shape	Dimensions mm	First Issued*	Illustration Page
Switzerland	PAMP	1 oz	Minted	999.9	Rectangular	41 x 24 x 1.7	1979	6
Switzerland	UBS	1 oz	Minted	999.9	Rectangular	40.4 x 23.3 x 1.75	1979	6
Switzerland	Valcambi	1 oz	Minted	999.9	Rectangular	41 x 24 x 1.9	2003	-
Switzerland	Valcambi	1 oz	Minted	999.9	Rectangular	38 x 22 x 2.3	2005	6
Canada	Royal Canadian Mint	1 oz	Minted	999.9	Rectangular	50 x 29 x 1.5	2001	6
Australia	The Perth Mint	1 oz	Minted	999.9	Rectangular	41 x 24	2010	7
UAE	Emirates Gold	1 oz	Minted	999.9	Rectangular	40.9 x 23.9 x 1.75	1992	6
Switzerland	Argor-Heraeus	1/2 oz	Minted	999.9	Rectangular	31.5 x 18.5 x 1.4	1979	7
Switzerland	PAMP	1/2 oz	Minted	999.9	Rectangular	31 x 18 x 1.52	1979	7
Switzerland	Valcambi	1/2 oz	Minted	999.9	Rectangular	31 x 18 x 1.6	2003	7
UAE	Emirates Gold	1/2 oz	Minted	999.9	Rectangular	31 x 18 x 1.53	1992	7
Switzerland	Argor-Heraeus	1/4 oz	Minted	999.9	Rectangular	23 x 14 x 1.3	1979	7
Switzerland	PAMP	1 oz	Minted	999.9	Round	33 x 33 x 2.15	1987	8
Switzerland	Valcambi	1 oz	Minted	999.9	Round	32 x 32 x 2.05	2005	8
Switzerland	PAMP	1/2 oz	Minted	999.9	Round	24 x 24 x 1.76	1990	8
Switzerland	Valcambi	1/2 oz	Minted	999.9	Round	25 x 25 x 2.4	2005	8
Switzerland	PAMP	1/4 oz	Minted	999.9	Round	22 x 22 x 1.05	1990	8
Switzerland	PAMP	1/10 oz	Minted	999.9	Round	18 x 18 x 0.63	1990	-
Switzerland	PAMP	1 oz	Minted	999.9	Oval	45 x 30 x 1.53	1990	8
Switzerland	PAMP	1/2 oz	Minted	999.9	Oval	45 x 30 x 0.765	1990	8
Switzerland	PAMP	1/4 oz	Minted	999.9	Oval	26.8 x 16.5 x 1.13	1990	-

Source: Refiners and issuers * First issued in current dimensions: the markings on some bars, and some company names, have changed over time. Note: In this supplement, Royal Canadian Mint provided the photographs of its 10 oz, 5 oz and 1 oz minted bars, PAMP SA of its 10 oz and 5 oz minted bars.

CAST BARS



10 oz

Johnson Matthey
USA

Johnson Matthey has issued 10 oz cast bars since 2010.





20 oz
The Perth Mint
Australia



10 oz



5 oz



2 1/2 oz



Obverse



Reverse

1 oz



Obverse



Reverse

1/2 oz

The Perth Mint
Australia

The Perth Mint applied a new official stamp to small cast (and minted) bars in 2010.



MINTED BARS

RECTANGULAR

10 oz



Credit Suisse
Switzerland



PAMP
Switzerland



Royal Canadian Mint
Canada

5 oz



The Perth Mint
Australia



PAMP
Switzerland



Royal Canadian Mint
Canada



1 oz



Umicore
Belgium



Heraeus
Germany



Commerzbank
Germany



Argor-Heraeus
Switzerland



Credit Suisse
Switzerland



PAMP
Switzerland



UBS
Switzerland



Valcambi
Switzerland



Emirates Gold
UAE



The Perth Mint
Australia



Royal Canadian Mint
Canada



1/2 oz



Argor-Heraeus
Switzerland



PAMP
Switzerland



Valcambi
Switzerland



Emirates Gold
UAE

1/4 oz



Argor-Heraeus
Switzerland



Argor-Heraeus
Switzerland



UBS
Switzerland

Some refiners seal minted bars in attractive packaging.



ROUND



1 oz



1 oz



1/2 oz



1/2 oz



1/4 oz

PAMP
Switzerland

Valcambi
Switzerland

OVAL



1 oz



1/2 oz

PAMP
Switzerland

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