

Fine Silver Jewellery

Precious Metal Clay



Metal Clay is a new and unique material suitable for both GCSE and A Level Design & Technology, and Art courses.

Precious Metal Clay - Silver

Precious Metal Clay (PMC) is a modern material and already revolutionising what jewellers and designers can create in solid silver without the need for casting equipment. Despite its name, Precious Metal Clay is not 'clay' at all, but a paste made from fine ground particles of pure silver, organic binder and water. It works like traditional clay so can be moulded and sculpted in the usual way, or reduced with water into a 'slip' consistency for joining PMC pieces together, or filling small cracks.

The 'magic' happens when the design is fired. The water evaporates and the organic binder burns away leaving a 99% pure solid silver piece. As such, it can be hallmarked as Fine Silver and (if needs be) can be silver-soldered. Care needs to be taken with any heat process like this, but the materials themselves are non-toxic.

For small projects, firing can be done with a torch and only takes a couple of minutes. Larger pieces should be kiln fired for even heating.

TechSoft are delighted to offer not only the PMC3 silver clay, but also the new PMC Flex silver clay which has an even longer working time in its 'clay' state – ideal for student work. Both types can be fired with either a torch or a kiln.

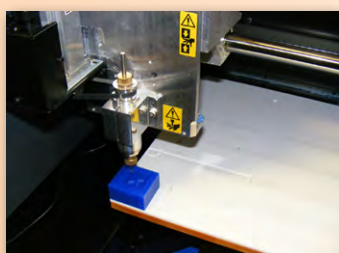
Once fired PMC appears white (the natural colour for silver) and must be polished. A stainless-steel brush will achieve a fine matt finish which can then be worked into a high lustre using a burnisher or polishing mop. Even easier is to polish by tumbling in a barrel polisher/tumbler with water, a little soap and some stainless steel shot. This technique has the added advantage of work-hardening the silver to strengthen it – important for delicate items such as rings.

Creative Metal Clay – Bronze and Copper

Creative Metal Clay (CMC) is similar to PMC but contains bronze or copper instead of silver. As such, it is a cheaper alternative – ideal for school use where budgets may be tight.

Use in Education

TechSoft are always looking for new and innovative products to help students get even more benefit from our CAD/CAM resources. These metal clays provide an excellent opportunity for creating 'clever' projects of high-value using laser-cut or milled 2D moulds. 3D moulds can be created using even our smallest CNC milling machine and softer materials such as modelling wax (see page 91) makes an ideal mould-material. Projects are likely to be small so costs can be controlled and throughput can be manageable for individual or groups of students. By using CAD/CAM for mould making, designs can be thoroughly checked in CAD and any number of moulds can be made using small amounts of cheaper material before committing to the metal clay. Metal clay is an excellent material for free-hand modelling but the use of moulds allows for tighter control and limits the chance for wastage.



The chosen design is created in 2D Design, SolidWorks or taken from a 3D scanned image. Any TechSoft/Roland CNC mill is then used to produce a mould or pattern. In this case a pattern is being milled from machining wax.



A flexible mould is produced from the pattern by hand-forming moulding compound around it. The compound sets quickly making for uninterrupted progress.



PMC3 is pressed into the mould, allowed to dry, carefully removed, and then thoroughly dried in a warm place before torch or kiln firing. This model has simply been brush-finished and awaits burnishing and polishing.

Prices £*

*See Pricing Information on page 2

Starter Kits

PMC-KITSTARTB	Precious Metal Clay Basic Starter Kit (inc. PMC3 6.3g, Badger Balm (release agent), Paintbrush, PMC Workmat with sizing scales, Teflon sheet, Bits & Bobs Mould H1, Sandpaper, Basic Hand Drill, 2 Jump Rings, Necklace cord, Kiln firing voucher, Instructions)
PMC-KITSTARTP	Precious Metal Clay Super Starter Kit (inc. PMC3 9kg, Badger Balm (release agent), Tweezers, 2 1.5 Spacers, Roller, Claychaper, Paintbrush, Workmat with PMC sizing, Teflon sheet, Sandpaper, Rubber Block, Stainless Steel Brush, Torch, Torch Block, Metal Burnisher, Circle Cutter, Jump Rings, Necklace Cord, Mini Texture Mat, 3 Fire Proof Gemstones, Instructions)

Handprinting Equipment

PMC-KITHF1	Hand and Foot Printing Kit (inc. inkless wipe and 2 handprinting sheets - refill for PMC-KITH)
PMC-KITPHOTO	Photopolymer Kit exc. Lamp (Contains 2 photopolymer plates each 100x80mm, backing board, foam and glass, soft scrubbing brush and full instructions.)
PMC-KITPHOTO2	Photopolymer Kit with Lamp (Contains 2 photopolymer plates each 100x80mm, backing board, foam and glass, soft scrubbing brush and full instructions.)
PMC-REFILPHOTO	Photopolymer Refill (2 off 100x80mm plates)

Support Materials

PMC-MC-100	Moulding Compound 100g (2 x 50g)
PMC-MC-300	Moulding Compound 300g (2 x 150g)
PMC-BALMBADG	Badger Balm - Natural Scent (0.75oz)

Bronze Clay

PMC-CLB-50	Creative Bronze Clay (50g)
PMC-CLB-100	Creative Bronze Clay (100g)
PMC-CLB-200	Creative Bronze Clay (200g)
PMC-SYRINB10	Creative Bronze Clay Syringe 10g

Creative Copper Clay

PMC-CLC-50	Creative Copper Clay (50g)
PMC-CLC-100	Creative Copper Clay (100g)
PMC-CLC-200	Creative Copper Clay (200g)
PMC-SYRINC10	Creative Copper Clay Syringe 10g

Silver Clay

PMC Flex - NEW, Ideal for schools with its longer working time

PMC-CLF-5	Silver Clay, PMC Flex (5g Silver)
PMC-CLF-15	Silver Clay, PMC Flex (15g Silver)
PMC-CLF-30	Silver Clay, PMC Flex (30g Silver)
PMC-CLF-60	Silver Clay, PMC Flex (60g Silver)

PMC3

PMC-CL3-6	Silver Clay, PMC3 (6.3g Silver)
PMC-CL3-9	Silver Clay, PMC3 (9g Silver)
PMC-CL3-16	Silver Clay, PMC3 (16g Silver)
PMC-CL3-25	Silver Clay, PMC3 (25g Silver)
PMC-CL3-50	Silver Clay, PMC3 (50g Silver)
PMC-PASTE	Silver Clay, PMC3 Paste

Cutters and Moulds

PMC-CUTDIA6	Pk of 6 Diamond Cutters
PMC-CUTHRT6	Pk of 6 Heart Cutters
PMC-CUTOV6	Pk of 6 Oval Cutters
PMC-CUTSQ6	Pk of 6 Square Cutters
PMC-CUTRT6	Pk of 6 Rectangular Cutters
PMC-PLATEBR4	4 Brass Plates (chips, beech, pebble and wave)
PMC-MOULDBB3	3 Bits 'n' Bobs Moulds
PMC-MOULDS5	Seashore Mould
PMC-MOULDORC	Orchid Mould

Accessories

PMC-TORCHSI	Torch - Self Ignition & Lock
PMC-TORCHBL	Torch Block
PMC-BRUSHSSW	Stainless Steel Wire Brush - Std Bristle
PMC-BRUSHBRL	Brass Brush (long bristle)
PMC-PICKLEAN1	150g Picklean (for removing firescale from metals such as copper, bronze and silver)
PMC-SANDP5	Sandpaper (Pack of 5)
PMC-MATRUB6	6 Rubber Mats - Square
PMC-TOOLC	Clean up / Carving Tool
PMC-TOOLWIP2	Clay Shaper
PMC-BURNMET	Metal Burnisher
PMC-KITTUMB	Tumbler Kit (includes Mixed Stainless Steel Shot & Tumbler Soap)
PMC-SYRIN	Syringe
PMC-SHEETSQ	PMC+ sheet (square)
PMC-SPROLL	Spacer & Roller Set
PMC-MAT	Work Mat
PMC-SHEETTEF5	Pk of 5 Telfon Sheets
PMC-BRUSHPNT2	Set of 2 Paint Brushes
PMC-DRILLH	Hand Drill Set
PMC-DISP1	Olive Oil Dispenser

Screen Printing / Printing Press / Drying Racks / Lightboxes

Print Down Cabinets



These print-down cabinets expose indirect and direct stencils onto all types of film with sharpness and precision. Exposure is provided by mercury vapour lamps via a 6mm toughened glass screen. A handy light box facility aids setting up, viewing and spotting out. Exposure times are, of course, digitally controlled.

Specification	AR-SPCAB1	AR-SPCAB2
Weight:	45kg	115kg
Dimensions:	880(W) x 700(D) x 850(H)mm	1310(W) x 910(D) x 960(H)mm
Power Requirements:	240V 2.4A, 13A Socket	
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return to Base	

Prices £*		*See Pricing Information on page 2
AR-SPCAB1	Print Down Cabinet - Exposure Area 508 x 382mm	
AR-SPCAB2	Print Down Cabinet - Exposure Area 762 x 508mm	

A2 / A1 Screen Printing Systems



A1 System

These superb screen printing systems are supplied complete with a stand and whisper-quiet vacuum system. Both models will accommodate material up to 50mm thick and have frame-lift angle stops which are adjustable to zero. Vacuum operation is automatic as the screen is lowered for printing. The melamine printing bed and work surfaces are ink and solvent resistant. These machines are robustly constructed for continuous use.

Specification	A2	A1
Vacuum bed area:	508 x 380mm	594 x 840mm
Max outside screen size	785 x 635mm	1040 x 725mm
Weight	43kg	60kg
Dimensions:	880(W) x 850(D) x 900(H)mm	1092(W) x 1200(D) x 900(H)mm
Power Requirements:	240V, 13A Socket	
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect	

Prices £*		*See Pricing Information on page 2
AR-SPBED-A2S	Screen Printing Bed A2 with stand	
AR-SPBED-A1S	Screen Printing Bed A1 with stand	

Screen Washout Booth



This screen washout booth is ideal for stencil development, or to wash out screens for re-use. The booth is suitable for water-based screen printing products and is constructed from polypropylene on a powder-coated steel base frame. The unit is fitted with a mains water valve on the frame to which the optional handspray can be attached. If local regulations require it, the optional waste treatment unit will filter and trap waste emulsions and solid material.

Prices £*		*See Pricing Information on page 2
AR-SPTROUGH4	Polypropylene Screen Washout Booth, inner size 1220 x 1220mm. <i>Must be plumbed in.</i>	
ARP-SP-SPR1	Handspray on hose from leg-mounted valve for AR-SPTROUGH4	
AR-WASTE1	Polypropylene Gravel Filtration Unit for the treatment of water waste from stencil stripping. (Single unit, area 600 x 500mm). <i>Must be plumbed in.</i>	

Print Press Horizontal



Suitable for lino and woodcut prints as well as etchings. Stable aluminium cast frame, with 80mm diameter steel rollers. The printing table is made from multiplex with a bolted, zinc-plated 2.5mm thick steel plate. The prints are guided by four bearings mounted in the sides. N.B. Colour may vary.

Specification	
Weight:	34kg
Printing Table:	500 x 700mm
Warranty:	UK Mainland: 2 Years Return to Base Elsewhere: 2 Years Return and Collect

Prices £*		*See Pricing Information on page 2
AR-HPRESS1-300	ABIG Horizontal Printing Press, 300mm wide with plate size 300 x 700mm (inc. 3mm felt sheet)	
AR-HPRESS1-350	ABIG Horizontal Printing Press, 350mm wide with plate size 350 x 700mm (inc. 3mm felt sheet)	
AR-HPRESS1-400	ABIG Horizontal Printing Press, 400mm wide with plate size 400 x 700mm (inc. 3mm felt sheet)	
AR-HPRESS1-500	ABIG Horizontal Printing Press, 500mm wide with plate size 500 x 700mm (inc. 3mm felt sheet)	

Drying Racks



AR-DRYRACK11



AR-DRYRACK16

These robust racks feature steel construction for strength, with plastic-coated racks for durability and easy maintenance. The smaller unit will easily accommodate A3 work, the larger unit will be needed for A2 sizes.

Both racks provide a compact solution for drying student's art work.

Prices £*		*See Pricing Information on page 2
AR-DRYRACK16	20 Shelf Double Sided Table Top Drying Rack, accommodates paper A5 to A3 size. 750 x 500 x 360mm	
AR-DRYRACK11	40 Shelf Mobile Drying Rack, shelf size 600 x 450mm, 4 castors (2 lockable)	

LightPad Lightbox

The new LightPad series of lightboxes uses super-bright LEDs for low energy consumption, cool operation and a lifetime of trouble free operation. No more dead bulbs to change! They provide perfect, even illumination to a double layered worksurface housed in a slim, yet durable, aluminium frame. Supplied complete with 240V power adaptor.

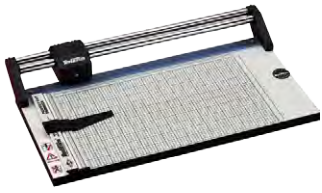


Prices £*		*See Pricing Information on page 2
AR-LIGHTBOX14	LightPad A930 (A4, 229 x 305mm)	
AR-LIGHTBOX15	LightPad A940 (A3, 305 x 432mm)	
AR-LIGHTBOX16	LightPad A950 (A2, 432 x 610mm)	

Art & Design Equipment

Trimmers / Airbrush / 3D Pens / Easels

Rotatrim Professional Trimmers



The Rotatrim system uses a small rotary blade to cleanly cut paper and card. Simple guarding keeps fingers well away from sharp edges, but the edge being cut remains in full view. The laminated MDF baseboard is graduated for accurate work placement, and a transparent, self-clamping strip secures the work while still allowing a clear view of the cut. These well-proven machines feature self-sharpening tungsten steel blades and twin chromed-steel guide rails to ensure consistent accuracy and long life. A patented Overload Protection system on M30 models and above will protect the machine from over-ambitious use. Rotatrim machines include a five-year warranty and lifetime servicing free of labour charges.


Specification	M15 A4+	M20 A3+	M30 A2+	M36 A1+
Cutting Length:	382mm	508mm	763mm	914mm
Cutting Capacity:	3mm	3mm	3mm	2mm
Warranty:	UK Mainland: 5 Years Return to Base Elsewhere: 5 Years Return and Collect			

Prices £*	*See Pricing Information on page 2	Standard (ex VAT)	Education Only (UK)
AR-CUTTRIM12	Rotatrim Professional M15 A4+	£07754	£19591
AR-CUTTRIM14	Rotatrim Professional M20 A3+	£07756	£19593
AR-CUTTRIM16	Rotatrim Professional M30 A2+	£07758	£19595
AR-CUTTRIM16A	Stand for M30 with integrated waste catcher	£07763	£07763
AR-CUTTRIM17	Rotatrim Professional M36 A1+	£07759	£19596
AR-CUTTRIM17A	Stand for M36 with integrated waste catcher	£07764	£07764

Airbrush Kit



Airbrushing is the technique of choice for achieving professional standards of finish for models and prototype products. In addition, airbrushing provides Graphic Artists and Designers with a uniquely creative tool for image making on a wide variety of media. This complete kit contains everything you need to get started including a market-leading Iwata Revolution BR airbrush and an Iwata Studio-series Silver Jet compressor. To help you start without delay, the kit also includes LifeColour acrylic paints and airbrush cleaners.

Prices £*	*See Pricing Information on page 2	
AR-AIRBRUSH2	Airbrush Kit c/w Silver Jet Compressor. (Contains Iwata Revolution BR Airbrush, Iwata Studio Series Silver Jet Compressor, Medea Airbrush Cleaner 188ml for use with acrylics; Premi Air Foaming Airbrush Cleaner 150ml for use with acrylics, Premi Air Liquid Reamer Airbrush Cleaner 150ml for use with enamels; LifeColor Matt White 22ml; LifeColor Matt Black 22ml; LifeColor Thinner 22ml, Set of 6 LifeColor 22ml Acrylic Paints)	
AR-AB2MT2	Sparmax Silver Bullet Plus Moisture Trap Filter for Silver Jet Compressor. With adjustable bleed valve (pressure adjust)	
AR-AB2MT1	Sparmax Silver Bullet Moisture Trap Filter for Silver Jet Compressor.	

3D Printing Pens



The 'manual' way to do 3D printing. See page 63 for details.

Table / Studio Easels



This range of high quality solid Elm easels will accommodate various sizes of canvases either table or floor standing.

Prices £*	*See Pricing Information on page 2	
AR-EASEL5	Table Easel, Solid Elm. Holds canvas up to 550mm height.	
AR-EASEL6	Radial Studio Easel. Solid Elm. Flexible height (1.5-2.5m) and tilt. Holds canvas up to 1230mm height. Can also accommodate two canvases.	
AR-EASEL7	A' frame Studio Easel, 600 x 870 x 2310mm. Holds canvas up to 1270mm height. Folds flat for easy storage. Easy adjustment - flexible height and tilt.	