AUREO

MACHINERY CATALOGUE

Goldsmithing and precious metal processing

59 items · 9 categories

sequential numbering of the machines

EMMEGI s.r.l.

Manufacture and overhaul of goldsmithing machinery

EMMEGI S.r.l.
Via dell'Industria, 12 - 36010 Cavazzale di Monticello Conte Otto (VI)
C.F. e P.IVA 03066250246

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MO MAESTRO ORAFO - THE PLATFORM

Subscriptions · The tools · Metaltech

CATEGORY 01

ROLLING MILLS AND WIRE DRAWING

No. 01 Single-head rolling mill Mario Di Maio



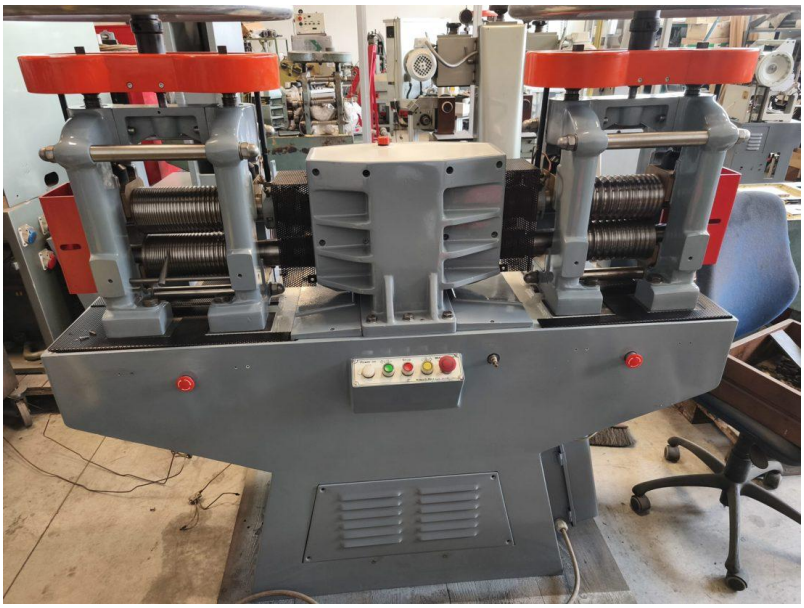
BRAND	Mario Di Maio S.p.A. - registered office Milan, plant in Gerenzano (VA)
MODEL	Marking on the machine: MDM S200 (to be confirmed)
DESCRIPTION	Goldsmith single-head rolling mill with flat rolls, top adjusting handwheel, side gearbox and front control panel. CE marked. Grey finish. Note: no 'S200' designation exists in the Mario Di Maio catalogue; the corresponding sheet breakdown mill is the LS 200 series. The MDM S200 wording is on an applied label, most likely an internal stock code.

No. 02 Single-head rolling mill Mario Di Maio



BRAND	Mario Di Maio S.p.A. - registered office Milan, plant in Gerenzano (VA)
MODEL	Marking on the machine: MDM S200 (to be confirmed)
DESCRIPTION	A separate machine from No. 01, light blue finish. Flat rolls, twin-column adjusting handwheel, gearbox and motor on the right-hand side, six-button front control panel with disconnect switch. CE marked. The same note as No. 01 applies to the MDM S200 marking.

No. 03 Two-head rolling mill



BRAND	Mario Di Maio S.p.A. - registered office Milan, plant in Gerenzano (VA)
MODEL	To be identified (two heads)
DESCRIPTION	Rolling mill with two independent heads on a single base: one head with shaped rolls for wire and one with grooved rolls. Central geared motor, central control panel and two emergency stops. Machine overhauled and repainted.

No. 04 Two-head rolling mill (front view)



BRAND	Mario Di Maio S.p.A. - registered office Milan, plant in Gerenzano (VA)
MODEL	To be identified (two heads)
DESCRIPTION	Two-head rolling mill with shaped rolls, one-piece cast iron base, two emergency stops and a three-button control panel. Machine in service in the workshop.

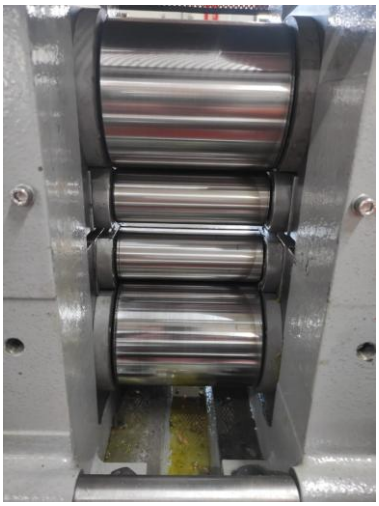
No. 05 Single-head rolling mill with gearbox



BRAND	Dealer plate EMMEDI / EMMEGI s.a.s.
MODEL	To be identified
DESCRIPTION	Compact rolling mill with flat rolls, two exposed gear pairs, top handwheel, oil-bath gearbox and motor built into the base.

No. 06 Four-high sheet rolling mill Mino









BRAND	Mino S.p.A. - Alessandria
MODEL	Four-high (4-roll) sheet rolling mill
DESCRIPTION	Four-high sheet rolling mill: two small-diameter work rolls backed by two support rolls, for thicknesses down to 0.08 mm. Fitted with electronic pay-off and take-up reels at inlet and outlet, water cooling and lubrication with collecting tray, mesh guards and a control panel with jog, fast, slow, stop, forward/reverse and emergency stop. Machine fully overhauled and repainted. Note: Mino S.p.A. (founded 1840) began precisely as a builder of precious metal processing machinery and pioneered reel-to-reel rolling mills; today it produces industrial rolling lines for aluminium, copper and steel. Second photo: roll stack in detail. Third photo: side view with reel and guards. Fourth photo: control panel and cooling unit.

No. 07 Bench-top manual rolling mill



BRAND	To be identified
MODEL	Combined flat + shaped rolls
DESCRIPTION	Small hand-cranked rolling mill with combined rolls (flat section and grooves for square wire), adjusted by two graduated handwheels. To be clamped to the bench.

No. 08 Continuous multi-head wire rolling line



BRAND	To be identified
MODEL	7 heads in line
DESCRIPTION	Continuous rolling line with seven roll pairs in series on a single drive shaft, with reduction/sizing heads at the outlet. Steel fabricated structure with closed guarding.

No. 16 12-pass multi-die wire drawing machine TVN Tech



BRAND	TVN Tech S.r.l. - Monte San Savino (AR)
MODEL	12-pass drawing machine with take-up reel
DESCRIPTION	12-pass multi-die wire drawing machine with take-up reel at the outlet. Fully enclosed: steel cabinet with a circular rubber-rimmed wire outlet, gas-strut service door for access to the capstans and dies, upper grille section and front electrical panel with disconnect switch and emergency stop. Eye protection mandatory and guard removal prohibited signage.

No. 40 Digital thickness control for rolling mills - NEW

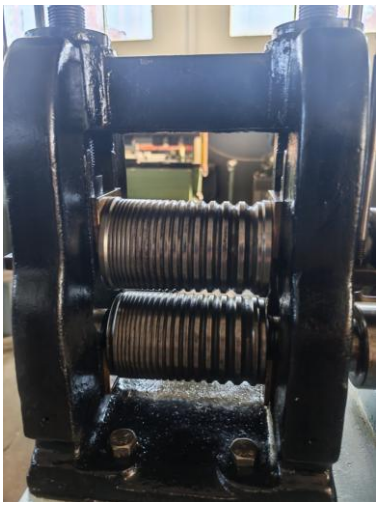




BRAND	Digital readout with mounting bracket kit of our own manufacture
MODEL	Adaptable to any rolling mill - new to the range
DESCRIPTION	Thickness control system for rolling mills. The readout continuously tracks roll position and shows the working dimension on the display: sheet thickness is always under control, adjusted precisely and repeatable from pass to pass and batch to batch. Set the required value and roll until you read it, with no trial and error and no need to measure the piece at every pass. Large-digit display readable with the machine running and a three-key pad: millimetre/inch switching, absolute or relative reading with zeroing at any point (ABS-REL) and enter/reset. Supplied complete with our own bracket system, adaptable to any rolling mill: it also fits machines already in service, with no modification to the structure. Second photo: the readout installed on the mill.

No. 41 Rolling mill Luigi Dal Trozzo 120 - sheet and wire



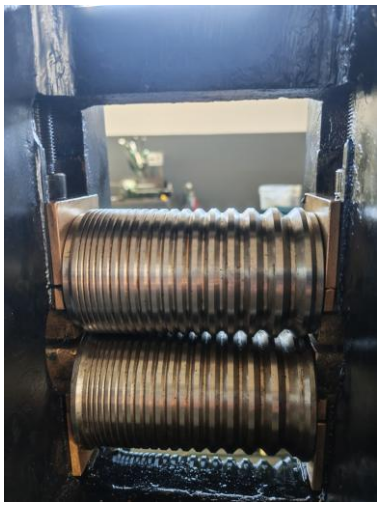




BRAND	Luigi Dal Trozzo
MODEL	120 - sheet and wire, motor 380 V, 2.5 HP
DESCRIPTION	Two-head rolling mill for sheet and wire on a single cast base: one head with grooved rolls for wire and one with flat rolls for sheet, each with its own top adjusting handwheel and tommy bar. Central gearbox with inspection porthole, front disconnect switch and CEE socket. Three-phase motor 380 V, 2.5 HP. Machine overhauled and repainted. Second photo: the grooved rolls for wire. Third photo: the flat rolls for sheet.

No. 42 Rolling mill Luigi Dal Trozzo 140 - sheet and wire







BRAND	Luigi Dal Trozzo
MODEL	140 - sheet and wire, motor 380 V, 2.5 HP
DESCRIPTION	Two-head rolling mill for sheet and wire, larger size than No. 41: one head with grooved rolls for wire and one with flat rolls for sheet, each with its own adjusting handwheel. Central gearbox, front disconnect switch and CEE socket, one-piece cast base. Three-phase motor 380 V, 2.5 HP. Machine overhauled and repainted, on pallet ready for shipment. Second photo: the grooved rolls for wire. Third photo: the flat rolls for sheet.

No. 43 29-pass wire rolling mill Ponzano



BRAND	Ponzano - Alessandria
MODEL	29 passes, with take-up reel - suitable for hollow wire
DESCRIPTION	Wire rolling mill with 29 passes in a single roll pack, complete with take-up reel: the wire is rolled and collected in a continuous cycle. Suitable for hollow wire as well. Large adjusting handwheel with A-C reference on the top cross member, front emergency stop and enclosed base. Cast maker's plate on the base: Ponzano - Alessandria.

No. 50 Two-head rolling mill Luigi Dal Trozzo 200 - sheet and wire









BRAND	Luigi Dal Trozzo - Forniture per orafi ed argentieri, Milan
MODEL	200 - sheet and wire, two heads
DESCRIPTION	Two-head rolling mill on a single base: one head with flat rolls for sheet, with infeed table, and one head with grooved rolls for wire, with wire guide bar. Rolls running in bronze bearings with lubrication lines to each bearing. Roll gap set by a large handwheel acting through a gear train on the two screwdowns, so that the rolls always stay parallel. Central drive housing between the two heads, perforated guards on the drive side. Push-button panel with forward, stop and reverse and selector, two emergency stops, side electrical cabinet. Second photo: rear view. Third photo: wire head with grooved rolls. Fourth photo: sheet head with flat rolls and infeed table.

No. 53 Reversible rolling mill with coilers Mario Di Maio - rolls 160 x 120 mm







BRAND	Mario Di Maio S.p.A. - Milan, Italy (marking on the control panel: MARIO DI MAIO S.p.A. MILANO - ITALY)
MODEL	No model designation visible on the machine - rolls 160 mm face x 120 mm diameter
DESCRIPTION	Reversible rolling mill on a closed grey cabinet, with a large coil reel on each side of the frame: it rolls in both directions. Rolls 160 mm face x 120 mm diameter; rolls and bronze bearings are water cooled, to keep the working temperature under control and hold the thickness of the sheet constant. Top stand with cast twin-column housing, large hand-wheel with screw for the roll gap and a second pair of rolls at the front; brass distributors and flexible hoses feed the lubricant to the roll necks. Red perforated guard on the drive side, geared motor with flywheel on the side of the cabinet. Front operator panel with MAN/AUT selectors, illuminated pushbuttons and main disconnect switch. Machine fully overhauled and repainted.

No. 09 Eccentric mechanical C-frame press Sangiacomo





BRAND	Officine S. Giacomo - Sangiacomo Presse, Vittorio Veneto (TV)
MODEL	T 10 CE - serial no. 13945 - year 2012 - rated force 100 kN
DESCRIPTION	Eccentric mechanical C-frame press, one-piece frame, rated force 100 kN. Operating mode selector for single/continuous by foot pedal, single/continuous two-hand control and setting mode; closed-die working selection, motor reversal and reverse rotation. Movable guard over the die area with safety microswitches, emergency stop and foot control. Sangiacomo control panel with Schneider Magelis operator terminal. CE compliant, fully overhauled and ready for use. Second photo: control panel detail.

No. 10 Hydraulic C-frame press Rispopresse



BRAND	Rispopresse S.r.l. - Campiglia dei Berici (VI)
MODEL	To be identified
DESCRIPTION	C-frame hydraulic press with platen die, movable guard with barrier and orange cover, pressure gauges and PLC control panel with keypad. CE marked. Rispopresse builds mechanical and hydraulic presses for sheet metal work, specialising in coining presses; models are identified by tonnage (100, 300, 800 t). The company now continues as L.M.S. S.r.l. at the same address.

No. 11 Hydraulic press MG - Arezzo



BRAND	'MG - Arezzo' mark (manufacturer not identified)
MODEL	To be identified
DESCRIPTION	Hydraulic press with enclosed frame and work table. Sliding transparent front guard with safety switch, and safety light curtains on both sides of the working area. Pressure gauge, operator panel with digital display, selectors and push-buttons, two-hand control console with emergency stop. Brass maker's plate with MG monogram and AREZZO wording; model to be read from the CE plate.

No. 12 Hydraulic column press



BRAND	To be identified
MODEL	To be identified
DESCRIPTION	Hydraulic press with enclosed column frame and grille guard over the working area. Pressure gauge, selectors and push-buttons on the side, two-hand controls with emergency stop, circuit breaker in the lower side panel. Blue-painted structure. Manufacturer and model to be read from the nameplate.

No. 13 GB Meccanica 15 t chain hammering machine with chain puller





BRAND	GB Meccanica - Italy
TYPE	15 t with chain puller
DESCRIPTION	Fast hammering machine for hollow or solid chains. Pressing force up to 15 t, variable speed from 0 to 1,400 strokes/min and vertical ram adjustment. Chain puller with independent gear motor and spring-loaded friction pulley for adjustable pulling tension. Die holder with side adjustment screws and inlet guide bush. Flywheel drive, steel frame and stand. Emergency stop and separate controls for the hammer and chain puller, main switch and three-phase plug. Main motor 1 HP. Dimensions 740 x 670 mm, height 1,320 mm; weight 300 kg. Used machine.

No. 23 Manual screw press Mario Di Maio



BRAND	Mario Di Maio S.p.A. (Milan)
MODEL	To be identified
DESCRIPTION	Hand-operated fly/screw press with flywheel and side lever, one-piece cast iron frame on a fabricated base. Typically used for blanking and drawing small parts in the goldsmith's workshop.

No. 44 Coining press MDM 200 ton





BRAND	Mario Di Maio (MDM)
MODEL	200 ton coining press - new pump, fully overhauled
DESCRIPTION	200 ton hydraulic coining press for medals, coins and blanks. Heavy plate frame with wide working window and toolholder platen, movable guard over the die area, transparent screen, pressure gauge, two-hand controls and emergency stops on the front. Separate hydraulic power pack with motor and filter unit at the side. New pump fitted and machine fully overhauled. Second photo: front view.

No. 52 Hydraulic press Mario Di Maio Mini Combi 10 - 10 ton







BRAND	Mario Di Maio S.p.A. - Milan
MODEL	Mini Combi 10 (plate: Combi / 10 ton) - serial 21 G 035
DESCRIPTION	Hydraulic press with a rated force of 10 ton, for blanking, coining and drawing of small parts. Column frame with chromed columns, transparent front guard and ReeR Admiral safety light curtains on both sides of the working area. Stroke set on the head with two handwheels and digital counters (division 0.1 mm): maximum stroke 60 mm, minimum up-down 6 mm; stroke counter. Pressure set by knob with 0-600 bar gauge and conversion table from 1 to 10 ton (20 to 200 bar). Control panel with two-hand push-buttons, key selector for manual, single-pedal and continuous-pedal modes, return button, on/off and emergency stop; foot pedal supplied. Hydraulic power unit housed in the base cabinet, with motor, valve block and oil tank with level gauge. Electrical supply 400 V three-phase, 50 Hz, 2.2 kW. CE marked, supplied with the operating and maintenance manual. Second photo: head with stroke setting. Third photo: control panel and power unit.

No. 54 Hydraulic C-frame press Locatelli Meccanica T.35 2C





BRAND	LMS - Locatelli Meccanica, Subbiano (AR), Italy
MODEL	T.35 2C - 35 ton
DESCRIPTION	C-frame hydraulic press, CE marked, with the manufacturer's data plate carrying the model T.35 2C and the bar / kN / ton conversion table, plus a second plate with the dimensional drawing. Large steel table with circular T-slot pattern and a bolster, front SICK light curtains on both sides of the working area, side operator panel with pushbuttons and selector. Oil tank in the base with filler cap and level, hydraulic power unit with electric motor, directional and pressure valves, pressure gauge and manifold with hard piping to the cylinder. Front panel with pressure gauge and two adjusting knobs. Green finish.

No. 55 Hydraulic press Mario Di Maio 800 ton with enclosed guard





BRAND	Mario Di Maio S.p.A. - 20122 Milan, Italy (plate on the front panel)
MODEL	No model designation visible on the machine - 800 ton
DESCRIPTION	Hydraulic press with a full polycarbonate enclosure on an aluminium frame, hinged front door with safety switch and side handles. Bilingual control panel: LINEA / POWER ON, CENTR. OLEOD. / HYDR. UNIT, SOVRATEMP. OLIO / OVERHEATING OIL, STOP, FILTRO INTASATO / FILTER CLOGGED, MARCIA / ON, TERMICO IN BLOCCO / MOTOR BREAKER, with mushroom emergency stop. Large 0-1600 bar pressure gauge on the front. Perforated steel work surface each side of the working area, articulated blow gun with lever, tool holder block on the table. Closed cabinet base with hydraulic unit and disconnect switch. Grey finish. Press force 800 ton.

No. 15 Precious metal recovery furnace Ciroldi



BRAND	Ciroldi S.p.A. - Ganaceto (MO)
MODEL	CKZ series (to be confirmed)
DESCRIPTION	Static chamber electric furnace with front door, upper protection grille, flue and separate wall-mounted electrical panel. For the goldsmithing industry Ciroldi produces the CKZ series: batch static chamber furnaces for the thermal destruction and calcination of scrap and the recovery of precious metal, with electric resistance heating, afterburner and fume abatement. Model and chamber volume to be read from the nameplate.

No. 24 Tilting electric annealing and de-oxidising furnace Maule



BRAND	Maule S.r.l. - Arcugnano (VI)
MODEL	Tilting furnace (e.g. BMT series) - to be confirmed
DESCRIPTION	Tilting electric furnace for annealing and de-oxidising: at the end of the cycle the chamber tips and discharges the material straight into the water quench tank below, preventing contact with oxygen and therefore oxidation. Side panel with digital temperature controller, flowmeter for the protective atmosphere and cycle controls. Maule builds industrial electric furnaces for the goldsmithing and engineering sectors: muffle furnaces, belt furnaces, hardening, annealing and de-oxidising plants.

No. 25 AUREO custom-built tunnel furnace





BRAND	AUREO - our own manufacture
MODEL	Custom-built tunnel furnace, dual chamber control
DESCRIPTION	Tunnel furnace for annealing and de-oxidising in a controlled atmosphere, our own build under the AUREO brand, Made in Italy. Built to measure to the customer's requirements, with dual chamber control to manage two temperature zones independently. Heated tunnel with cooling chamber at the outlet, control panel with touch screen operator terminal, flowmeters for atmosphere gas dosing, alarms and emergency stop. 400 V supply. Second photo: control panel and flowmeters in detail.

No. 26 Bench-top muffle furnace



BRAND	To be identified
MODEL	To be identified
DESCRIPTION	Small muffle furnace with front door and lever catch, analogue dial temperature controller, heating indicator and line switch. For annealing, flask burnout and small heat treatments.

No. 27 FIOA mixing vessel (function to be confirmed)



BRAND	FIOA International S.r.l. - Arezzo
MODEL	To be identified
DESCRIPTION	Fabricated vessel with hinged lid and toggle catches and a bottom outlet with nozzle, front controls (start/stop, disconnect switch and emergency stop). FIOA International is a full-line supplier of goldsmithing machinery based in Arezzo and lists vacuum investment mixers used to prepare the refractory investment poured into the flasks. The trough shape does not however match the vacuum bells in the catalogue: actual function and manufacturer to be confirmed from the nameplate.

No. 37 Vacuum investment mixer Mixer S.Louis 2000



BRAND	Mark on the machine: 'Mixer S.Louis 2000'
MODEL	S.Louis 2000
DESCRIPTION	Vacuum mixer for preparing the refractory investment used in lost-wax casting. Clear graduated cylindrical bell with paddle agitator, rotating flask table with vacuum seal, vacuum gauge and pump housed in the lockable cabinet. Front panel with cycle timer, vacuum and vibration controls, speed inverter and emergency stop. The vacuum cycle removes air bubbles from the slurry and from the flask.

No. 38 Vacuum casting machine Schultheiss with MTA chiller





BRAND	Schultheiss GmbH (Germany) - MTA chiller
MODEL	To be identified from the nameplate
DESCRIPTION	Schultheiss vacuum casting machine for precious metals (Heating & Casting Technologies), with vertical melting chamber, refractory crucible seated in the cast body, flask lift on a rod and a panel with digital temperature controller, display and cycle selectors. CE marked. Supplied together with the MTA industrial water chiller that cools the induction generator, with mimic panel, pressure gauge and disconnect switch. Second photo: melting chamber open, showing the refractory ring and the crucible seat.

No. 47 Continuous casting machine OPDEL Larry 12









BRAND	OPDEL s.n.c. - Costruzione Macchine Orafe, Made in Italy
MODEL	Larry 12 - 12 kg crucible, continuous casting, max 1200 °C
DESCRIPTION	Continuous casting machine for precious metals with a 12 kg crucible, working up to a maximum of 1200 °C. The metal is melted in the crucible under a protective atmosphere and drawn without interruption through the water-cooled die by the towing unit, producing wire, rod, tube or strip in one continuous run ready for rolling or drawing. Water-cooled die holder with brass adjusting handwheel and quick die change. Front panel with separate digital readouts for crucible temperature and die temperature, converter control, towing start/stop, main on/off and a programming keypad covering crucible temperature, pause in seconds, casting speed in mm/min and FW %. Protective gas flowmeter on the front with cylinder connection. Hinged top cover over the crucible carrying high temperature and molten metal splash warnings. Working parameters noted on the machine: crucible 830-870 °C, die 500 °C, pause 1.0 to 0.6, speed 70 mm/min. Second photo: side view with the gas supply. Third photo: water-cooled die head. Fourth photo: control panel.

No. 48 Continuous brazing furnace Maule







BRAND	Maule — Italy
MODEL	To be identified from the nameplate — 70 mm chamber, maximum 1090 °C
DESCRIPTION	Continuous mesh-belt furnace for the brazing and annealing of chain and small parts under a controlled reducing atmosphere. Muffle chamber 70 mm. Variable-speed mesh belt with digital speed readout, hydrogen flowmeter with regulating valve on the front panel, two analogue instruments, cycle timer and separate switches for the furnace and for the belt drive. Water-cooled cooling tunnel downstream of the heating section, with bimetallic thermometer 0-120 °C on the outlet. Fume outlets on the top and perforated screens at the mouth of the muffle. Maximum working temperature 1090 °C. Second photo: control panel with the hydrogen flowmeter. Third photo: mesh belt at the entry of the chamber.

No. 49 Deoxidising furnace with dissociator G&B







BRAND	G&B - since 1958, Italy
MODEL	To be identified from the nameplate — mouth 300 x 200 mm, maximum 990 °C
DESCRIPTION	Furnace for the deoxidising and bright annealing of precious metal, mouth 300 x 200 mm, supplied complete with the dissociator that produces the protective atmosphere. Both sections are run from the same panel: separate DISSOC. and FURNACE push-buttons, two digital temperature controllers, line indicator, cycle timer, 24-hour programming clock and automatic/manual selector. Extraction hood over the mouth, infeed and outfeed tables, and water tank downstream for the cooling of the work, with perforated stainless steel plate and heating element. Maximum working temperature 990 °C. Second photo: control panel. Third photo: opposite side with the infeed table and the maker's plate.

No. 51 Continuous brazing furnace Bertoncello









BRAND	Bertoncello - Italy
MODEL	Mesh-belt tunnel furnace, maximum 950 °C, 70 mm belt
DESCRIPTION	Continuous mesh-belt tunnel furnace for the brazing and annealing of chain in a protective atmosphere, maximum temperature 950 °C. Hydrogen and nitrogen inlets on the muffle at the entry. Belt driven by knurled rollers at variable speed, with 0-100 % potentiometer and digital rpm readout. Front panel with Ascon XE programmable temperature controller, cooling water temperature readout (max 40 °C), programming clock, main disconnect switch, automatic/manual selector and belt motor switch. Water-cooled cooling tunnel with extraction chimney and belt return drum at the outlet. Spare mesh belts 70 mm wide available (reel marked 70 x 3298). Second photo: control panel. Third photo: gas inlets and belt drive rollers. Fourth photo: outlet end.

No. 56 Rotary dewaxing furnace Mario Di Maio - Allmet





BRAND	Mario Di Maio S.p.A. - 20122 Milan, Italy, with Allmet (Germany) badge on the door
MODEL	No model designation visible on the machine
DESCRIPTION	Cylindrical rotary furnace for investment flasks, red and grey finish, mounted on a pallet. Front loading mouth with hinged inspection door and glass, second hinged door with the Mario Di Maio plate and the Allmet Germany badge, counterweighted opening lever. Inside the chamber two round perforated rotating shelves on a central shaft, loaded with investment flasks. Exhaust chimney on the roof for the fume extraction, lifting eye, lower drawer at the base. Heat and glove warning labels, CE marked. The furnace is used to drain the wax out of the investment flasks before firing: the flasks turn on the two shelves while the wax runs off and is collected at the base. Working cycle and cycle time can be set on the controller.

No. 17 Automatic figaro chain machine





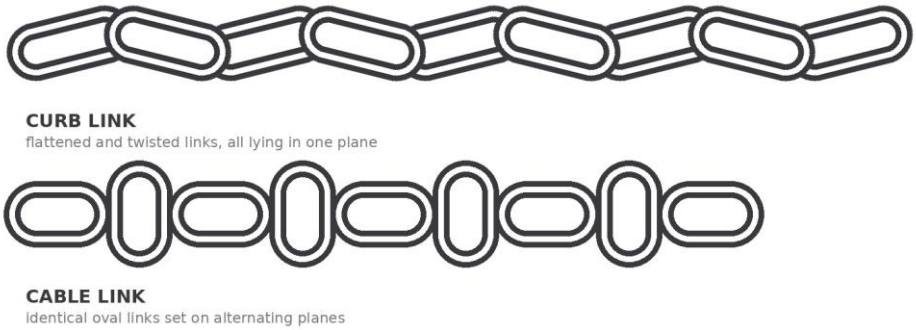
FIGARO LINK PATTERN

three short links followed by one long link, repeated

BRAND	To be identified
MODEL	Figaro chain machine (with Delta HMI)
DESCRIPTION	Automatic machine for figaro chain production, with two wire feed spools, forming and welding units, pneumatic cylinder and Delta touch screen operator terminal. The figaro link pattern alternates groups of three short links with one long link. Second image: figaro link diagram.

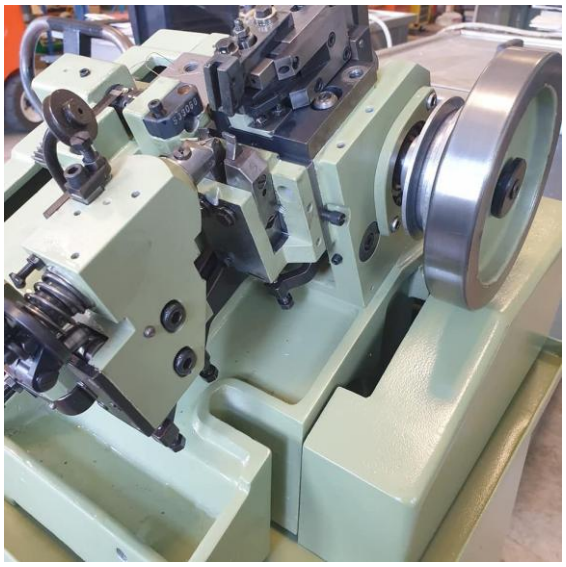
No. 28 Combined curb and cable chain machine





BRAND	To be identified
MODEL	Combined curb / cable - wire from 0.60 to 2 mm
DESCRIPTION	Automatic cam-driven chain machine, combined for curb and cable link, working from 0.60 to 2 mm wire diameter. Forming and cutting units, side drive flywheel, lubrication and hinged guards. Front control panel with digital piece counter, on a fabricated base. Second image: diagram of the two link patterns produced, curb and cable.

No. 29 Fine cable chain machine GE



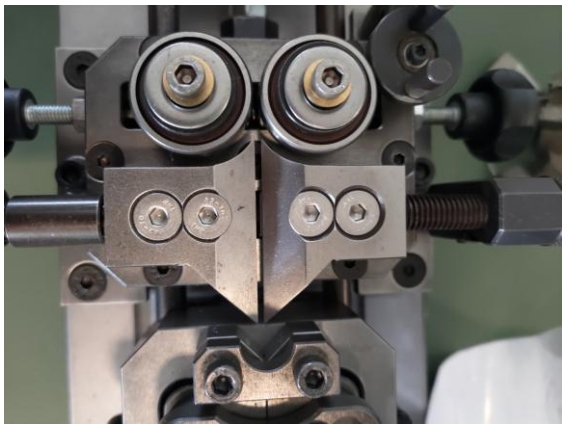


FINE CABLE LINK
small-gauge cable chain: identical oval links on alternating planes

BRAND	GE
MODEL	Fine cable chain machine - serial no. 533068
DESCRIPTION	Machine for fine cable chain: cam-driven mechanical unit with adjustable tool slides, hardened steel tool blocks, spring returns and drive flywheel/pulley on a cast iron base. Stamped serial number 533068. Unit overhauled and repainted. Second image: fine cable link diagram.

No. 30 Chain compacting machine AMB





BRAND	AMB (most likely A.M.B. S.r.l. - Bassano del Grappa, VI)
MODEL	Chain compacting machine
DESCRIPTION	Machine for compacting chain: the chain passes between the rollers and the V-shaped compacting tools, which flatten and settle the links to give the chain its final section and surface. Pneumatic feed slide, compacting unit with adjustable blocks and guide rollers, cam disc and take-up reel. AMB-branded console on a column with line indicator, emergency stop, start, manual/automatic selector, micron timer and separate chain feed and take-up adjustments. Second photo: detail of the rollers and compacting tools.

No. 57 Coiling machine Zone Creative AVA3





BRAND	Zone Creative S.r.l., Italy
MODEL	AVA3 - use and maintenance manual 04/17 rev. 0 of 10-02-2017 supplied with the machine
DESCRIPTION	Coiling machine for fancy chain, earrings, pendants and semi-finished jewellery parts: it winds the wire into coils and links, with automatic saw, vertical knives or horizontal knives according to the cut required. The head comprises a four-roll straightening unit with brass adjusters and a hand knob, a feed unit and the cutting group with V-block, mounted on a slotted base plate. Panasonic touch-screen panel on a column, Lovato line switch and emergency mushroom: main page with programme number, repeats, current cycle, cycle line, last stop and descent delays, CYCLE ON / OFF and M1 / M2 pages. Manufacturer's data: 110 x 82 x 165 cm (H) excluding the reel, approx. 220 kg, 220 V 50/60 Hz 0.6 kW, compressed air 6-8 bar, up to 90 shape programmes.

No. 60 Transfer machine Gruppo Lorenzato Microtransfer for leverback earring hooks









BRAND	Gruppo Lorenzato — Microtransfer range; tooling by Herrblitz modular system S.r.l., Turin
MODEL	Microtransfer — tooled for leverback earring hooks
DESCRIPTION	Pneumatic transfer machine for the automatic production of small jewellery findings. This unit is tooled for leverback earring hooks: the wire is fed from the upper spool, formed and joined to the lever plate, which the panel shows as fed from strip (strip end) off an external side reel. The tooling is built on the Herrblitz modular system on a vertical plate, with stations driven by compact pneumatic cylinders with flow regulators and a rotary cam with connecting rod. Controls: single/continuous cycle selector, START, STOP, mushroom emergency stop and piece counter. Indicators for power on, low air pressure, broken punch, end of wire, end of strip and door open. Enclosure in aluminium profile with transparent panels, hinged door with sensor. Sheet steel base cabinet with a lockable compartment. CE marked on the plate fitted to the unit. Supplied with: empty DIN 160 wire spools, a set of plate dies and tooling with guide pillars (box marked ‘Special L.334’) and further boxes of spools and accessories. Second photo: working stations under the enclosure. Third photo: production samples, leverback hooks. Fourth photo: tooling and spools supplied with the machine.

No. 18 Diamond cutting machine for rings and bracelets





BRAND	Mario Di Maio S.p.A. (plate on the machine)
MODEL	Console marked DLM C4 (see note)
DESCRIPTION	Diamond cutting machine for rings and bracelets: diamond-tipped tools cut micro-facets into the surface of the piece, giving it a mirror finish and increased brilliance. Toolholder head, tilting index/spindle, slides with micrometric handwheels and control console (number of cuts, workpiece positioning, spindle). Note: the machine carries a Mario Di Maio plate, while the DLM C4 marking on the console belongs in the catalogue to Faimond S.r.l. (Arcugnano, VI): check whether the console belongs to this machine. Second photo: general view with console.

No. 39 Coin and medal diamond cutting machine A.R.A.





BRAND	A.R.A. s.n.c. di Maranzan Giampietro & C. - Vicenza
MODEL	To be identified from the nameplate
DESCRIPTION	Diamond cutting machine for coins and medals: the blank is clamped in a pneumatic collet on the rotating spindle and worked by the diamond-tipped tool on the upper head, which cuts mirror micro-facets into the face and the edge. Slides with micrometric handwheels for positioning, index for angular repetition of the cuts. Separate panels with fan, cutter, speed adjustment, start and collet controls; 380 V supply. Transparent guard over the working area. Available as several units side by side in line. Second photo: detail of the tool and the workpiece in the collet.

No. 19 Vibratory finishing bowl 105 l LM





BRAND	LM Industry S.r.l. - Tezze sul Brenta (VI)
MODEL	Circular vibrator 105 l, with timer and reverse
DESCRIPTION	105 litre circular vibratory finishing bowl, with anti-abrasive polyurethane lining, opening lid and vibrator motor underneath. Separate electrical panel with cycle timer, speed adjustment, rotation reverse and disconnect switch with emergency stop. For tumbling, deburring and polishing with abrasive media. LM Industry (founded 1971) specialises in finishing systems for the goldsmithing and small parts industry. Second photo: bowl open, showing the LM plate.

No. 31 Two-station extracted polishing bench



BRAND	'Tecnoro' mark on the machine (manufacturer not traced)
MODEL	To be identified
DESCRIPTION	Two-station polishing bench with independent motors, steel extraction hoods with clear screens, central collecting hood, residue collection drawers and front panel (motor 1, extractor, motor 2) with main disconnect switch. CE marked. The Tecnoro mark is legible on the plate and panel but does not correspond to any known manufacturer in the trade.

No. 32 Centrifugal dryer for small parts



BRAND	To be identified
MODEL	To be identified
DESCRIPTION	Centrifugal dryer with vertical stainless steel basket and quick-closing lid, for drying small parts after washing (with or without sawdust). Wall panel with timer, start/stop control and disconnect switch. 380 V supply.

No. 45 Circular vibratory finishing bowl





BRAND	To be identified
MODEL	To be identified
DESCRIPTION	Circular vibratory finishing bowl with cream polyurethane lining, central discharge column with cap and drain tap fitted, mounted on a steel base housing the vibrator motor and the liquid collecting tank, with flexible conduit for the electrical connection. For tumbling, deburring and polishing with abrasive media. Second photo: side view of the complete machine.

No. 46 Needle burnishing tumbler with reverse



BRAND	Luigi Dal Trozzo - Milan
MODEL	BM 1200/R08 - Made in Italy
DESCRIPTION	Needle (pin) burnishing tumbler for chain and small parts: the pieces are tumbled with stainless steel needles, which burnish and work-harden the surface without removing material and reach inside links and hollow shapes. Stainless steel tank on a cabinet base, with programmed rotation reverse so the parts are worked evenly on every side. Column-mounted control panel marked 'Pre-Programming Reverse': power switch, fuse, cycle timer with set and start/stop, and digital speed regulator with programme keys and alarm indicator. Emergency stop on the front of the cabinet, flexible conduit and plug supplied. Model BM 1200/R08, Made in Italy, CE marked.

No. 59 Magnetic tumbler Finishing Systems







BRAND	Finishing Systems (‘LM’ logo on the control panel)
MODEL	No model designation visible on the machine — speed range 300 to 3,300 rpm
DESCRIPTION	Compact magnetic tumbler with stainless steel body and a recessed work top. Control panel on stainless uprights with stepless speed adjustment by a graduated knob from 300 to 3,300 rpm, an Omron H3CR timer for the automatic cycle time (0 to 30 min scale) and a second Omron H3CR timer for the rotation reversal time. Manual/Automatic selector, START and STOP pushbuttons, lockable red and yellow main disconnect switch. Transparent circular bowl with central ring and spokes, seated on the stainless top, so the movement of the pins can be watched. Supplied with stainless steel magnetic pins. Second photo: control panel. Third photo: bowl with the pins.

No. 20 Gold refining plant Italimpianti Orafi



BRAND	Italimpianti Orafi S.p.A. - Badia al Pino (AR)
MODEL	IAO series / inquartation pre-refining plant (to be confirmed)
DESCRIPTION	Extracted chemical station with reactor, two glass reagent vessels, acid fume scrubbing column, pneumatic diaphragm pump on a trolley, external tank and electrical panel with emergency stop. CE marked. In the Italimpianti catalogue this configuration corresponds either to the static refining plant with glassware (IAO series, aqua regia) or to the inquartation pre-refining plant (IAO..BR INOX series, nitric acid): which of the two depends on the chemical cycle actually run.

No. 21 Analytical balance Kern ABT 220-5DM



BRAND	Kern & Sohn GmbH - Balingen, Germany
MODEL	ABT 220-5DM
DESCRIPTION	Dual range analytical balance with glass draught shield. Maximum capacity 82 g in the fine range and 220 g in the full range, readability d = 0.01 / 0.1 mg, verification scale interval e = 1 mg, verification class I, stainless steel pan 80 mm dia., internal calibration weight, RS-232 interface. Complete with power supply.

No. 22 Coining dies for coins and medals

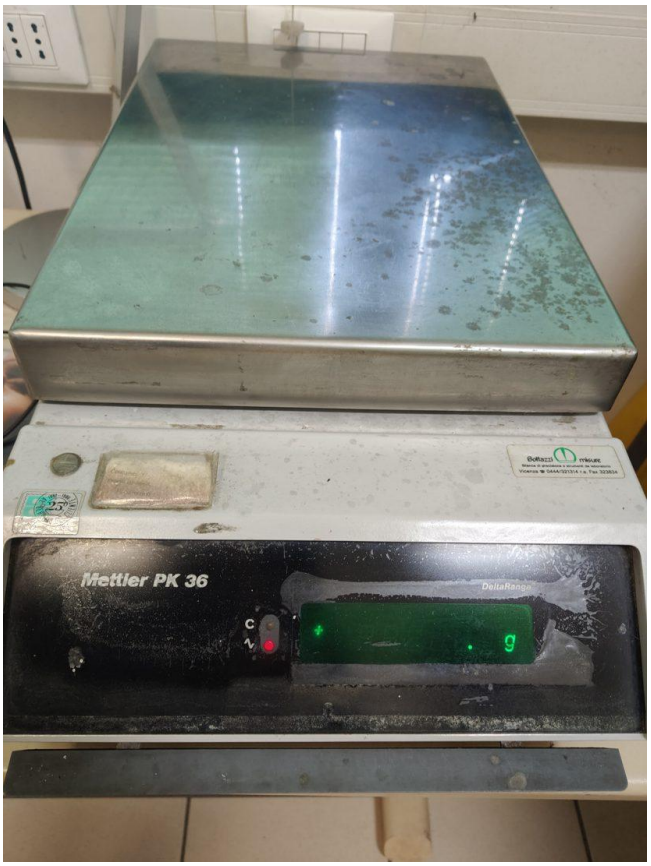






BRAND	Our own production - dies made to order
MODEL	Franz Joseph I - 4 Ducat Austria die (example)
DESCRIPTION	Steel coining dies for coins and medals, complete with collar and die holder for the press. The photographs show the obverse with the effigy and the reverse with the double-headed eagle. WE MAKE DIES TO ORDER, from the customer's drawing or starting from an existing coin or medal, on request. Second photo: complete die set with dies, collar and bush. Third photo: detail of the two dies with the collar.

No. 33 Precision balance Mettler PK 36



BRAND	Mettler (now Mettler-Toledo) - Switzerland
MODEL	PK 36 DeltaRange (variants PK36/A and PK36/M)
DESCRIPTION	Top-loading precision balance with stainless steel pan and LED display. The DeltaRange function provides a moving fine range, which repositions at every tare and shows increments ten times smaller. Model discontinued since January 1986. Calibration label from Bottazzi Misure (Vicenza). Capacity and readability are no longer available from official sources: to be read from the nameplate.

No. 34 Safe with combination lock and Time Lock



BRAND	To be identified
MODEL	With Time Lock device (up to 144 hours)
DESCRIPTION	One-piece cabinet safe with armoured door, mechanical combination lock, service key and Time Lock protection with a preset timed combination of up to 144 hours. For the custody of precious metals.

No. 58 Water chiller MTA



BRAND	MTA S.p.A., Italy
MODEL	No model designation visible on the machine
DESCRIPTION	Industrial water chiller for machine cooling circuits, 220 V (rating label on the top). Front panel with red disconnect switch, digital controller with display and keypad, printed circuit diagram of the refrigerating circuit and water pressure gauge. Ventilated condenser grille on the front, water connections and flexible hoses at the rear, filler cap on the top. Warning label: before starting the pump make sure the circuit has been filled with water.

No. 61 Wire profiling units with dies AUREO







BRAND	AUREO
MODEL	Die holder with screw clamping + roll unit with adjuster
DESCRIPTION	A pair of blued steel units for wire work, to be fitted on a drawing bench, a workbench or a chain line: a die holder with sliding jaws, clamping screw and T handle, and a roll unit with adjuster and adjusting slide, to obtain shaped profiles from round wire. Interchangeable cylindrical and hexagonal dies, marked with the profile reference (for example 551, S60, 040-060, 305, A M35 G20). Second photo: roll units and die holder with the set of interchangeable dies. Third photo: brass sample profile, measured with a digital caliper at 5.05 mm.

No. 35 Hydrogen and oxygen generator Piel Baby





BRAND	Piel - Italian brand (now owned by ErreDue, formerly McPhy Energy Italia, San Miniato PI)
MODEL	Baby
DESCRIPTION	Alkaline water electrolysis generator producing hydrogen and oxygen separately, for precision welding and brazing in the goldsmithing trade. Baby model: 0.4 Nm3/h hydrogen and 0.2 Nm3/h oxygen, 1 bar, 3 kW. Wheeled unit with two pressure gauges (one per gas), digital ammeter, adjustment selector, start/stop controls, alarm indicator and emergency stop; cooling fan and valve unit with regulators at the rear. Note: Piel generators deliver the two gases separately and independently adjustable, not an oxyhydrogen mixture. Second photo: rear view.

THE PLATFORM

Maestro Orafo

Maestro Orafo is the professional management system for the goldsmith's workshop: alloy calculation, loss control, technical annealing, quotations and working tools in one system. Our own software, Made in Italy, usable from computer, tablet and smartphone.



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METALTECH CALCULATOR	A dedicated module for Metaltech alloys, selected by code, karat and colour, with a data sheet for each alloy family. It flags the alloys intended for investment casting only.
REDUCTION AND ANNEALING	Works out the rolling and drawing passes using the deformation thresholds for the first reduction and for the following ones, so you know when to anneal and avoid cracks and breakage.
LOSS CONTROL	Full control of process loss: guided step-by-step entry, comparison between metal in and metal out, recovery chart and history by job.
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