

Machinery catalogue

Jewellery and precious metal processing

57 machines / 9 categories

Manufacture and refurbishment of jewellery machinery

EMMEGI S.r.l.

Via dell'Industria, 12

36010 Cavazzale di Monticello Conte Otto (VI)

C.F. e P.IVA 03066250246

Revision 21 • 28 September 2026

aureomachines.com

Contents

01 ROLLING MILLS AND WIRE DRAWING

- 01 Single-head rolling mill Mario Di Maio
- 02 Single-head rolling mill Mario Di Maio
- 03 Two-head rolling mill
- 04 Two-head rolling mill (front view)
- 05 Single-head rolling mill with gearbox
- 06 Four-high sheet rolling mill Mino
- 07 Bench-top manual rolling mill
- 08 Continuous multi-head wire rolling line
- 16 12-pass multi-die wire drawing machine TVN Tech
- 40 Digital thickness control for rolling mills - NEW
- 41 Rolling mill Luigi Dal Trozzo 120 - sheet and wire
- 42 Rolling mill Luigi Dal Trozzo 140 - sheet and wire
- 43 29-pass wire rolling mill Ponzano
- 50 Two-head rolling mill Luigi Dal Trozzo 200 - sheet and wire
- 53 Reversible rolling mill with coilers Mario Di Maio - rolls 160 x 120 mm

02 PRESSES AND STAMPING

- 09 Eccentric mechanical C-frame press Sangiacomo
- 10 Hydraulic C-frame press Rispopresse
- 11 Hydraulic press MG - Arezzo
- 12 Hydraulic column press
- 23 Manual screw press Mario Di Maio
- 44 Coining press MDM 200 ton
- 52 Hydraulic press Mario Di Maio Mini Combi 10 - 10 ton
- 54 Hydraulic C-frame press Locatelli Meccanica T.35 2C
- 55 Hydraulic press Mario Di Maio 800 ton with enclosed guard

Contents

03 CASTING AND HEAT TREATMENT

- 14 Vacuum pressure casting machine Yasui K2
- 15 Precious metal recovery furnace Ciroldi
- 24 Tilting electric annealing and de-oxidising furnace Maule
- 25 AUREO custom-built tunnel furnace
- 26 Bench-top muffle furnace
- 27 FIOA mixing vessel (function to be confirmed)
- 37 Vacuum investment mixer Mixer S.Louis 2000
- 38 Vacuum casting machine Schultheiss with MTA chiller
- 47 Continuous casting machine OPDEL Larry 12
- 48 Continuous brazing furnace Maule
- 49 Deoxidising furnace with dissociator G&B
- 51 Continuous brazing furnace Bertoncello
- 56 Rotary dewaxing furnace Mario Di Maio - Allmet

04 CHAIN, WIRE AND BEAD MACHINES

- 13 High-speed chain hammering machine GB Meccanica T15
- 17 Automatic figaro chain machine
- 28 Combined curb and cable chain machine
- 29 Fine cable chain machine GE
- 30 Chain compacting machine AMB
- 57 Coiling machine Zone Creative AVA3

Contents

05 DIAMOND CUTTING

- 18 Diamond cutting machine for rings and bracelets
- 39 Coin and medal diamond cutting machine A.R.A.

06 FINISHING AND SURFACE TREATMENT

- 19 Vibratory finishing bowl 105 I LM
- 31 Two-station extracted polishing bench
- 32 Centrifugal dryer for small parts
- 45 Circular vibratory finishing bowl
- 46 Needle burnishing tumbler with reverse

07 PRECIOUS METAL REFINING AND RECOVERY

- 20 Gold refining plant Italmimpianti Orafi

08 INSTRUMENTS AND EQUIPMENT

- 21 Analytical balance Kern ABT 220-5DM
- 22 Coining dies for coins and medals
- 33 Precision balance Mettler PK 36
- 34 Safe with combination lock and Time Lock
- 58 Water chiller MTA

09 WELDING AND GAS GENERATORS

- 35 Hydrogen and oxygen generator Piel Baby

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

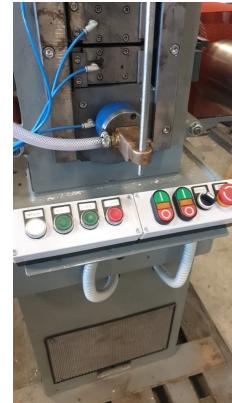
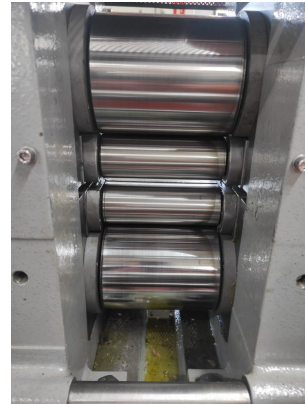
To be identified

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

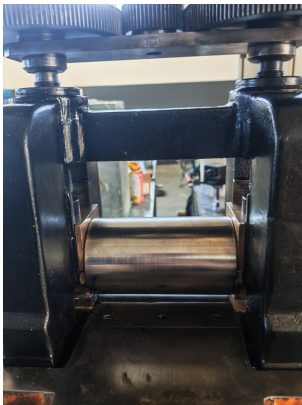
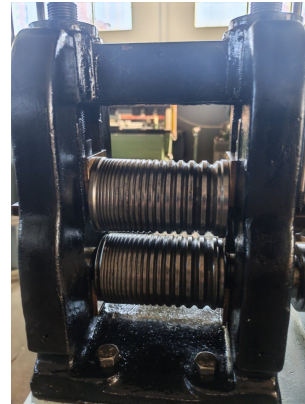
Adaptable to any rolling mill - new to the range

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

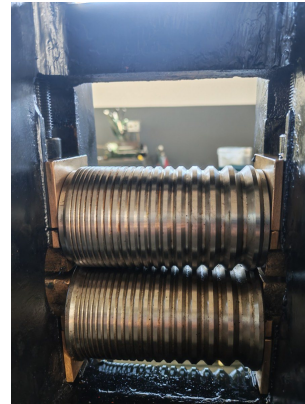
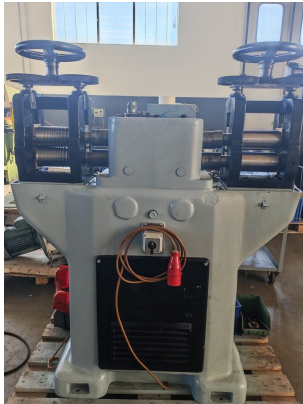
120 - sheet and wire, motor 380 V, 2.5 HP

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

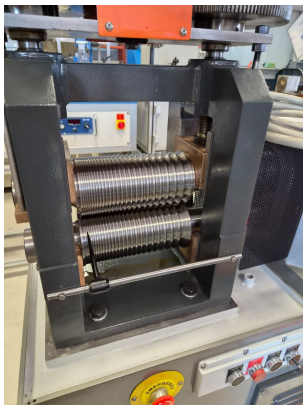
29 passes, with take-up reel - suitable for hollow wire

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. 23

Manual screw press Mario Di Maio

**BRAND**

Mario Di Maio S.p.A. (Milan)

MODEL

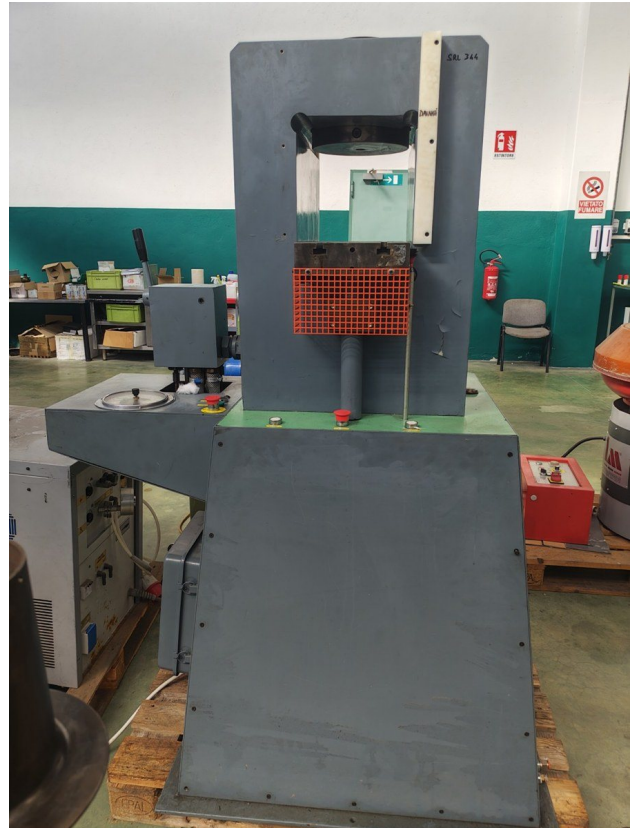
To be identified

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. 14

Vacuum pressure casting machine Yasui K2



BRAND

Yasui Intertech Co., Ltd. (Yasui & Co.) - Tokyo, Japan

MODEL

K2 - Vacuum Pressure Casting Machine (VPC series)

DESCRIPTION

Lost-wax casting machine working under vacuum and over-pressure, with melting chamber, Yasui Program Controller, pressure regulation and temperature control, plus external vacuum pump. The markings 'K2', 'Vacuum Pressure Casting Machine' and 'Yasui Program Controller' are read directly from the front panel. The VPC series is currently listed as K2S, K2NEXT, K3S and KT18S: this is the earlier K2 generation. Second photo: side view with pumps.

No. 15

Precious metal recovery furnace Ciroidi

**BRAND**

Ciroidi 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 Ciroidi 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

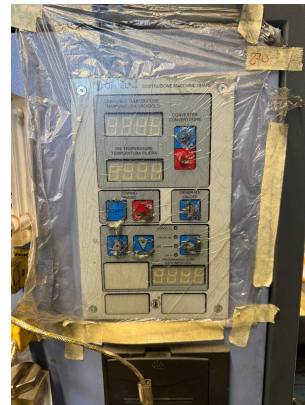
To be identified from the nameplate

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

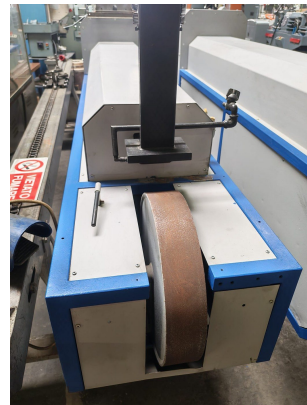
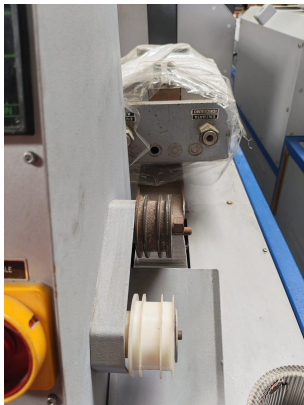
To be identified from the nameplate — mouth 300 x 200 mm, maximum 990 °C

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. 13

High-speed chain hammering machine GB Meccanica T15

**BRAND**

GB Meccanica - Giusti Tech S.r.l., Pieve al Toppo, Civitella in Val di Chiana (AR)

MODEL

T15 - 15 t, up to 1,000 strokes/min, with chain feed reel

DESCRIPTION

High-speed hammering machine for chain: the chain is fed continuously by the draw reel and hammered between the tools, which flatten and settle the links to give the chain its final section and surface. 15 t force and a rate of up to 1,000 strokes per minute. Eccentric unit with flywheel on a fabricated base, hammering die fitted, side control panel with emergency stop. GB Meccanica (Giusti Tech S.r.l.) has been building goldsmithing machinery since 1973.

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

**CURB LINK**

flattened and twisted links, all lying in one plane

**CABLE LINK**

identical oval links set on alternating planes

BRAND

To be identified

MODEL

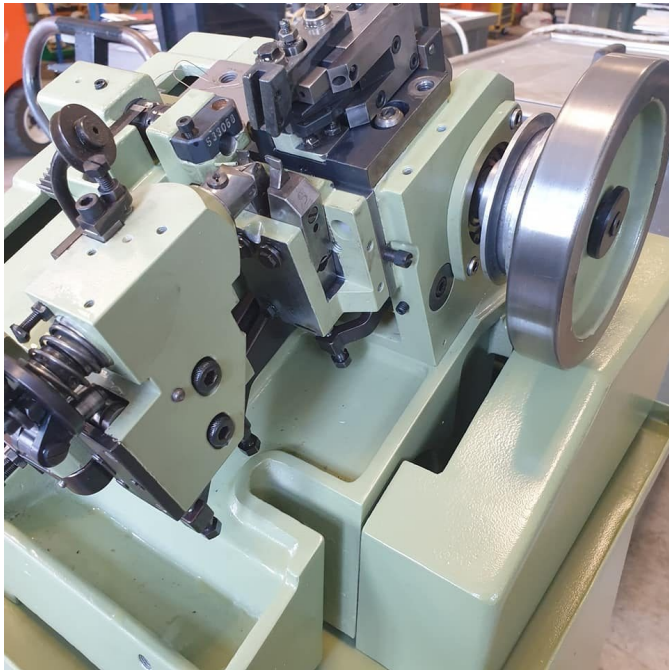
Combined curb / cable - wire from 0.60 to 2 mm

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

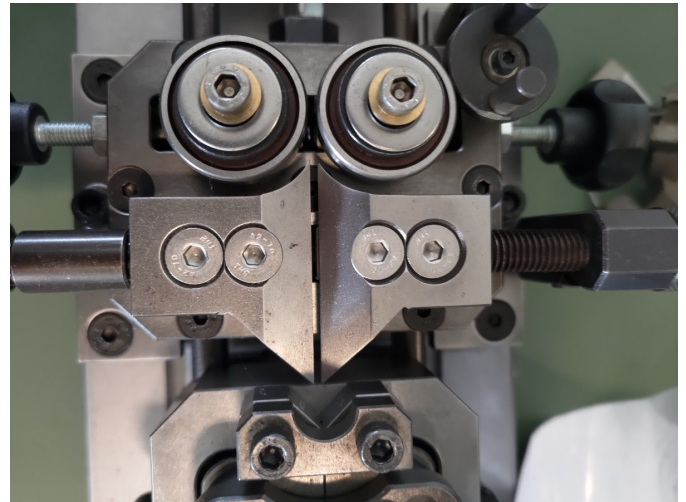
Fine cable chain machine - serial no. 533068

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

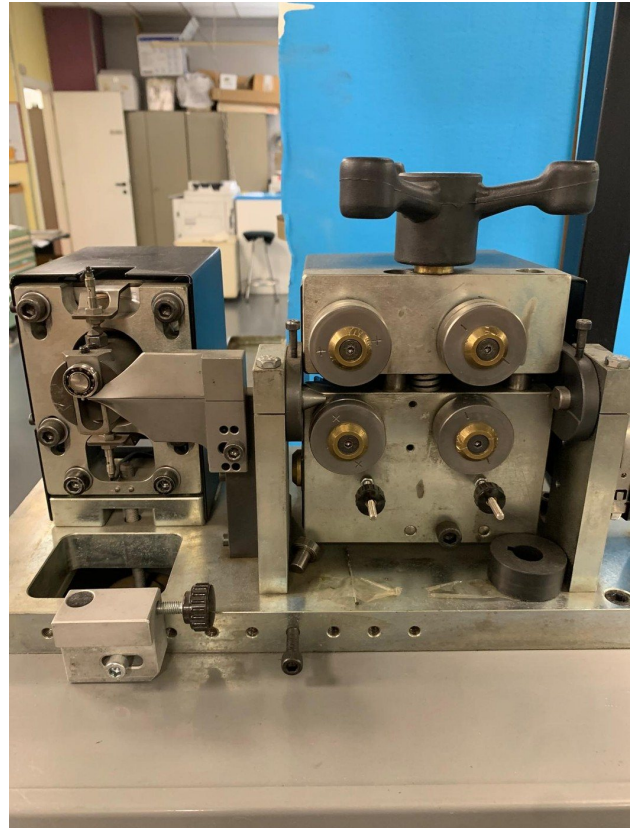
Chain compacting machine

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. 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 I LM



BRAND

LM Industry S.r.l. - Tezze sul Brenta (VI)

MODEL

Circular vibrator 105 I, 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. 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. 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.

SUBSCRIPTIONS

FREE TRIAL

7 days

Full access to the platform, no commitment and no obligation to renew.

MONTHLY

17.90 € / month

All the calculators and tools in the suite, updates included.

ANNUAL

159.00 € / year

Works out at 13.25 € a month: a saving of 55.80 € against twelve single months (-26%).

7-day free trial at maestro-orafo.com · immediate activation · cancel at any time

THE TOOLS

What you get in the platform

ALLOY CALCULATORS

Calculators for the whole Maestro Orafo alloy range: 9kt to 22kt, yellow, white and red gold, silver and platinum. Alloy composition, charge weights and final fineness worked out automatically.

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.

QUOTATIONS

Build the quotation line by line with metal, labour and outside processes; quotation archive grouped by date and PDF output ready to send.

WORK ORDERS

A single order with several processing lines, calculations per quantity and a cost summary by currency, never mixing different currencies in the same total.

TECHNICAL GUIDES

Nine practical guides on workshop practice, including the defects atlas with causes and remedies, available directly inside the platform.

SUPPLIER DIRECTORY

A curated directory of trade suppliers with dedicated cards, to find alloys, materials and services without leaving the system.

SIX LANGUAGES

Interface and content available in six languages: suitable for workshops dealing with customers abroad.

WEB AND MOBILE

Runs in the computer browser and on smartphone and tablet, with the same data always in step.

PARTNERSHIP

Maestro Orafo + Metaltech

The same suite carries the calculators for Maestro Orafo alloys and, in addition, the dedicated calculator for Metaltech alloys. Anyone working with both ranges has a single tool, with the technical data for each alloy family and the calculations already set up on the manufacturer's own figures.

maestro-orafo.com

Our own software · Made in Italy