



\_\_\_\_\_ machines and technologies for goldsmiths \_\_\_\_\_



PHILOSOPHER WITH PIPE

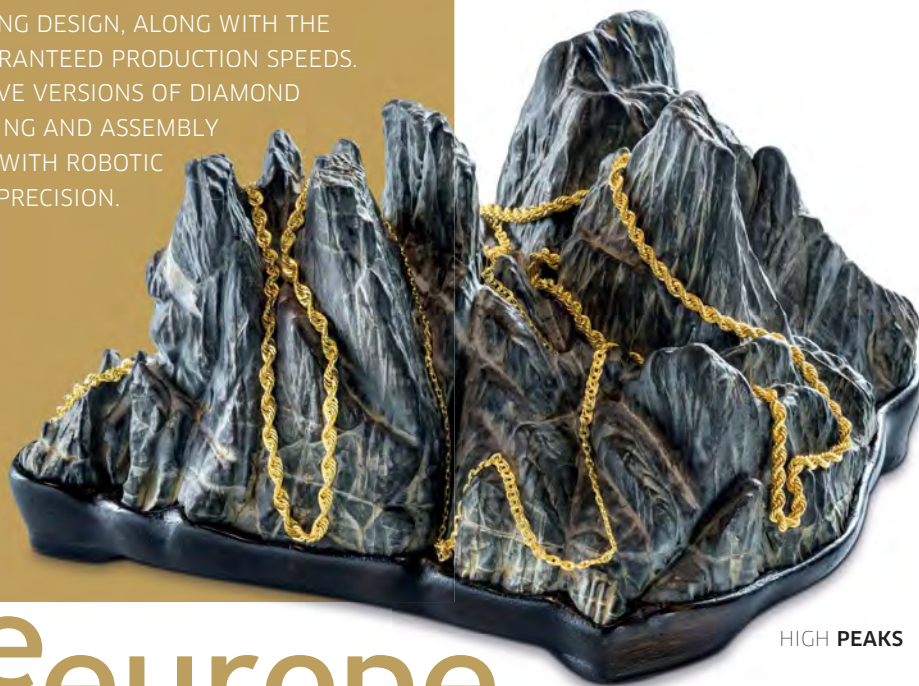
FOR OVER 40 YEARS CIEMMEO HAS BEEN AT THE VANGUARD OF TECHNOLOGICAL INNOVATION IN THE CHAIN MANUFACTURING SECTOR. ALWAYS SOURCING NEW TECHNOLOGIES TO ADAPT TO THE MANUFACTURING PROCESS. THE COMPANY NESTLED IN VICENZA PROVINCE, STARTED BY RADICALLY DESIGNING AND MANUFACTURING CUSTOM MADE MACHINES. ONLY TO SUBSEQUENTLY GROW WITH A COMPLETE RANGE OF UNITS, NOT ONLY FOR CHAIN MANIPULATION, BUT ALSO CROSSING OVER TO OTHER PRODUCTS IN THE JEWELLERY FIELD.

OUR MISSION IS TO CONSTANTLY PUSH THE STATE OF THE ART TO NEW LEVELS, ADAPTING AND TRANSFORMING TECHNOLOGIES TO BETTER PRODUCTION IN TERMS OF QUALITY AS WELL AS CAPACITY. OUR R&D CENTER CONSTANTLY DELIVERS NEW PROTOTYPES IN ALL FIELDS, AND IS ALWAYS READY TO AUTOMATE ANY TYPE OF PRODUCTION PROPOSED BY OUR CUSTOMERS. DEVELOPMENT OF SPECIALIZED KNOWHOW IS KEY TO THE CIEMMEO EXPERIENCE.

all over the world

## ROPE AND EUROPE CHAIN MAKING MACHINES

THE WORLD QUALITY AND QUANTITY BENCHMARK  
OF ROPE CHAIN PRODUCTION. BOTH STANDALONE,  
AND GROUP MACHINES CREATE THE MOST SHINY AND  
BRILLIANT CHAINS, THANKS TO EXCLUSIVE ENGINEERING  
AND TOOLING DESIGN, ALONG WITH THE  
HIGHEST GUARANTEED PRODUCTION SPEEDS.  
EXCLUSIVE VERSIONS OF DIAMOND  
CUTTING AND ASSEMBLY  
AVAILABLE WITH ROBOTIC  
PRECISION.



Robotic assembly machine able  
to position and laser solder  
links together to create either  
Rope or Europe Chain. All full  
logic controlled motorized axis,  
handles upto 4 different  
color/featured links, complete  
with laser time share system  
handling 3 independent  
focusing scopes.



Fully automated and compact  
machine able to produce Rope  
Chain from 0.30 to 1.20 mm  
wire. Optic fibres control multiple  
synchronised brushless motors  
which carry out the delicate  
positioning, weaving & soldering  
of the links. Complete with newly  
engineered miniaturized laser  
focussing scope for precision  
soldering even at high speeds.

rope  
and europe  
CHAINS

*Catering to all sizes from 0.30 to 1.20 mm,  
in hollow or solid wire, of all types of metal,  
in both standard and Bassano versions.*



atmc3



srm



Most productive Rope Chain assembly machine available. Completely mechanical, assembles single calibrated links into high quality Rope chain at the fastest possible speed for the highest productivity. Processes all alloys and base metals in sizes from 0.30 - 1.00 mm.



atmc



Precision Rope Chain link making machine. Creates sized links from hollow or solid wire to be calibrated before assembly. Extra high speed allowing precision checks during production.



mtism



Precision Rope Chain link calibration machine. Fully mechanical, individually calibrates and facets each single link prior to chain assembly. Polished hammers provide the characteristic brilliance to the chain.



mbm



Rope Chain link diamond cutting/faceting machine. Individually cuts & shapes links around the external edges giving the chain a characteristic brilliance not obtainable on tradition machines.



dmc



## CUP/TENNIS CHAIN MAKING MACHINES

BRILLIANT STONES AUTOMATICALLY  
AND PRECISELY INTEGRATED  
INTO CONTINUOUS CHAINS. PROCESSING  
CHAINS IN VARYING COLORS  
AND MATERIALS.

JEWELLERY AUTOMATICALLY CREATED  
WITH ELEGANCE AND PRECISION  
IN A HIGH PRODUCTIVITY ENVIRONMENT.  
FLEXIBILITY AND FLAIR COUPLED  
WITH SIMPLICITY.



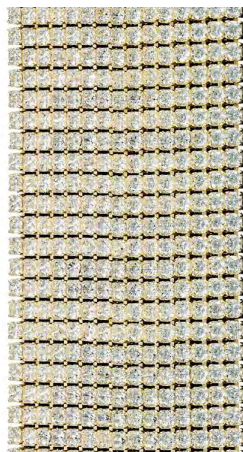
MODELING WIND

# cup

# CHAINS



Cup Chain making machine. From a single strip, automatically cuts, form, folds, & solders individual open cups into a continuous chain. Available in different size chains according to tooling.



Stone setting machine. Automatically takes stones from a feeder, sorts and sets them into a pre-made cup chain. Can simultaneously set stones in different colors, in preprogrammed patterns. Available with exclusive varying pitch control of the cups.



Round Cup Chain making machine. From precut shells, automatically positions and solders round cups together in a continuous chain. Produces prongless cups even in two different materials.

High power Nd Yag laser for laser applications and technologies involving soldering and/or cutting. Available in different power versions.



ccm



mmp2



ccr



cl 350/500

## PROGRAMMABLE CHAIN MANIPULATION MACHINES

— — — — —

BASE CHAINS TRANSFORMED  
INTO EXCITING NEW MODELS,  
EASILY AND REPEATEDLY.

SOFTWARE CONTROLLED  
PROGRAMMABLE MACHINES WHICH  
WILL TRANSFORM BASIC TRADITIONAL  
CHAINS INTO NEW, ORIGINAL  
AND FANCY DESIGNS SIMPLY BY  
MANIPULATING THE LINKS. TWISTING,  
STRETCHING, SQUEEZING, CREATING  
CHAINS IMPOSSIBLE TO OBTAIN  
ON STANDARD CHAIN MAKING  
MACHINES.

# manipulated CHAINS



ROARING WATERFALLS





Automatic Programmable Machine to transform chains into hand made looking personalized fancy chains, max. width 12 mm, max. pitch 50 mm, variable speed.



Automatic Programmable Machine to transform chains into hand made looking personalized fancy chains, max. width 7 mm, max. pitch 120 mm, variable speed.



Basic automatic programmable twisting machine. Able to transform chains by twisting in all directions, continuously and alternatively.



fg2



fg5



fg7



## LOBSTER CLASP PRODUCTION SYSTEMS

COMPLETE FULLY AUTOMATIC OR SEMI AUTOMATIC  
LOBSTER CLASP PRODUCTION LINES CATERING TO  
ALL STANDARD (AND NON STANDARD) SIZES.

FLEXIBLE CONFIGURATIONS TO SUIT ALL  
PRODUCTION NEEDS, DUE TO THE SEPARATION  
OF THE PRODUCTION PHASES INTO INDIVIDUAL  
SPECIFIC MACHINES, THE LINE CAN EASILY BE  
UPGRADED, OR MODIFIED, AT ANY TIME.

PRODUCTIVITY REACHES  
3,000 PIECES/HOUR.



ENDLESS PLATEAU

# lobster CLASPS



Automatic 30 ton knee joint  
stamping press to gradually dose  
and then maximize power.  
High precision action, rapid  
change tooling complete with  
press interface. Stamps out both  
shell and trigger.



ps2s



Automatic Lobster Clasp shell forming and soldering machine. Complete with shearing block, precisely forms shell and solders it shut with either gas or laser systems.



Fully automatic Lobster Clasp Assembly machine. Rapidly manufactures and inserts Stainless Steel spring into trigger, then automatically assembles spring, trigger and shell into finished Lobster Clasp. Automatically checks quality and functionability before discharging.



Semi Automatic Spring insertion machine. Automatically manufactures and inserts Stainless Steel spring into a manually loaded trigger, discharging the assembled Trigger/Spring.



Semi Automatic Lobster Clasp Assembly machine. Automatically assembles a finished Lobster Clasp from manually loaded Shell and Trigger/Spring assemblies.



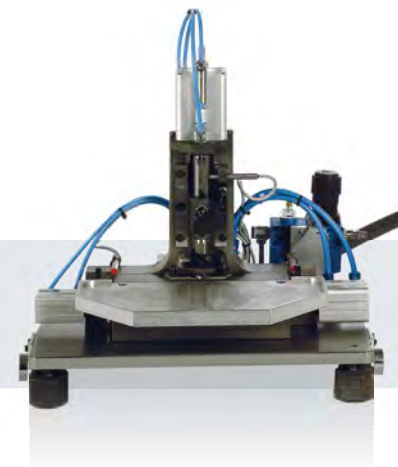
psma



mama1



mim2



mam

## SPRING RING PRODUCTION SYSTEMS

COMPLETE FULLY AUTOMATIC SPRING  
RING PRODUCTION LINES CATERING  
TO ALL STANDARD (AND NON  
STANDARD) SIZES.

HIGH PRODUCTIVITY GUARANTEED BY  
THE SEPARATION OF THE PRODUCTION  
PHASES INTO INDIVIDUAL SPECIFIC  
MACHINES, WHICH HIGHLIGHT  
INDIVIDUAL FUNCTIONS  
PRODUCTIVITY OF 3,000 PIECES/HOUR.



# spring RINGS

MYSTICAL PAGODA





Automatic Spiral Forming machine. From a continuous hollow tube, creates a continuous spiral which will become the Spring Ring shell.



Automatic Spring Ring spiral cutting machine. Cuts continuous spiral into single Spring Ring shells, and also creates the trigger latch slit.



Automatic End Ring production & application machine. Automatically manufactures and solders the End Ring onto the Spring Ring shell.



Automatic Spring Ring assembly machine. Automatically manufactures the Spring Ring trigger and inserts it into the shell together with a Stainless Steel spring. After assembly, automatically tests the correct functioning of the Spring Ring.



**mfs**



**fam**



**mssa**



**mma**

## DIAMOND FANTASY FACETING AND CUTTING

PRECISION SPEED FLEXIBILITY  
DESIGN - ALL ASPECTS  
OF THE DIAMOND CUTTING  
MACHINERY PROCESS CHAINS  
CONTINUOUSLY AND AUTOMATICALLY  
FOLLOWING PERSONALIZED  
PROGRAMS TAILORED  
TO INDIVIDUAL NEEDS.



STEEP CLIFF

# diamond

# FANTASY

# faceting and cutting



Fantasy Diamond Cutting Machine.  
Fully automatic and programmable  
machine for diamond cutting  
various shapes and forms onto link  
chain and non.



Automatic Ice Lathe innovative fully  
programmable automatic ice lathe.  
The tool head carries 9 tools which are  
used according to the process program,  
cutting down machine time. A complete  
new on board refrigeration system  
allows automatic rapid icing and  
thawing in record time.



Automatic grinding machine for  
surfacing and contouring chains.



dcf



tg6



dcs



## CHAIN TRANSFORMATION MACHINERY

CHAINS TRANSFORMED INTO NEW  
PRODUCTS SIMPLY & EFFECTIVELY  
THROUGH DEDICATED MACHINES  
AND TOOLS, GIVING NEW LIFE  
TO STANDARD CHAINS AND PRODUCTS.



OVER THE PEAKS

# transformed CHAINS



Automatic Machine to compact chains, maximum wire size 1,00 mm, speed up to 700 rpm. It is possible to have a width of the compressed chains up to 16 mm, maximum speed 350 rpm in the MCC1 version.



mcc



Automatic Machine for limbering hammered chains from 0,18 mm up to 2,50 mm wire size, complete with chain dragging group rollers.



sn4

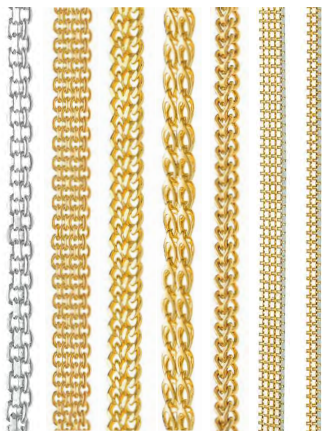


Hammered Chain Limbering Machine.  
An automatic limbering unit for hammered chains having round, triangular, square, oval, etc. sections. The limbering radius is fully adjustable, thus allowing a full range of limbering angles. Comes complete with clutch and chain drawing apparatus. The unit is able to process up to 24 kt.



sn7

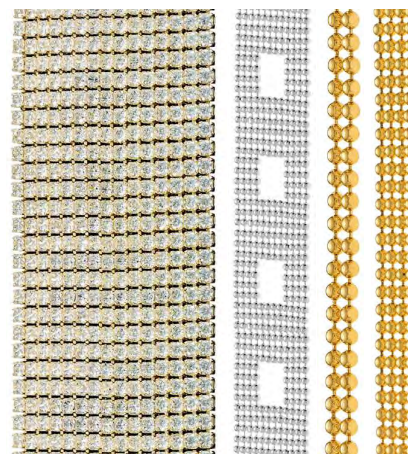




Automatic parallel chain soldering machine. Solders with gas flame and alloy, into multiple rows of max. 22 mm width. Upgradable to laser version.



Automatic parallel chain soldering machine. Solders with laser, into multiple rows of max. 22 mm width. Upgradable to gas flame/alloy version.



Multiple Row Bismark Machine. Fully automatic machine for soldering and cutting series of chains together in parallel. Solders various types of chains together in multiple rows simultaneously up to a maximum width of 32 mm. Using an extremely fast laser unit is able to solder the chains together and cut out patterns in a single pass of the chains through the machine. The variable pitch allows it to process Figaro chains as well.



Automatic 30 ton knee joint stamping press to gradually dose and then maximize stamping power. High precision action, rapid change tooling.



scip2/4



scip3/5



scip7



ps2b





Automatic 150 tons Chain Hammering Machine with high production capacity, complete with cooling system and double lubricating circuits.



5 ton hammering press for chain calibration, hallmark & End Cap stamping.



Semi automatic End Cap production and application machine. Stamps out end caps and automatically solders them onto manually loaded chains.



Automatic End Cap production and application machine. Stamps out end caps and automatically solders them onto preset lengths of chain cut directly from the spool. Highest precision measuring, with no lost link technology.



pb2



ps1



mtsf



mtsf3c



Chain Wrapping Machine for wrapping a flat strip around a circular core. The core can be of various materials, (not necessarily metallic). The flat strip is wound around the core creating a spiral based on the width of the strip which can also be in two different colors.



Rotary hammering Machine for perfectly hammering and calibrating chains. Silent, easy to use with rapid tool changeover. Complete with internal cooling circuit for max. hammering.



Simple multwire cable chain making machine. Creates a 7 wire cable chain in one pass. Also available a 49 wire version.



Rotary Braiding machine specially designed for extremely light and strong round chains. Able to simultaneously braid up to 16 flat strips or round wire (strands) into a predetermined size tube or cage. Strips can be of different colors or finishing.



mac1



mr



maf



mt



Automatic Machine to insert Bars into Curb, Cable and Figaro Chain Links, wire size up to 1,60mm with version MIB 2 and wire size from 1,50 to 4,00 with version MIB 3. Version MIB 1 is used to insert Bars into Curb and Cable Chain Links, wire size to 1,60 mm.



Automatic Machine to insert Blanks into Curb, Cable and Figaro Chain Links, chain wire size up to 1,50 mm, maximum Blanks diam. 4,00 mm.



Fully automatic & programmable bead insertion machine. Able to insert up to 3 different colour/type beads inside the links of a chain. Also capable of curbing cable chain. MIPI I colour/type bead version also available.



Automatic and fully programmable ornament mounting machine. Inserts ornaments into a link chain. Manages up to 3 different types of ornaments simultaneously.



mib1/2



mit



mip



mmr



THE CIEMMEO RANGE OF MACHINES CATER  
TO THE SMALLEST OF NEEDS REQUIRING  
A SIMPLE SINGLE MECHANICAL UNIT,  
TO COMPUTERIZED COMPLEX MULTI  
AXIS ROBOTIC EQUIPMENT, RIGHT UP TO  
COMPLETE TURN KEY PRODUCTION PLANTS.

•————•

ALL THE MACHINES ARE FEATS  
OF ENGINEERING PROWESS, USING  
THE HIGHEST QUALITY COMPONENTS,  
ALL DESIGNED AND MANUFACTURED  
IN HOUSE IN ORDER TO GUARANTEE  
HIGHEST LEVELS OF QUALITY  
AND PRECISION.



Thanks for suiseki: Maurizio Mosna e Diego Rigotti.

---

## CIEMMEO srl

VIA DELL'INDUSTRIA, 22 | 36065 CASONI DI MUSSOLENTE (VI) ITALY | TEL. +39 0424 577565 | FAX +39 0424 577563  
INFO@CIEMMEO.COM | WWW.CIEMMEO.COM