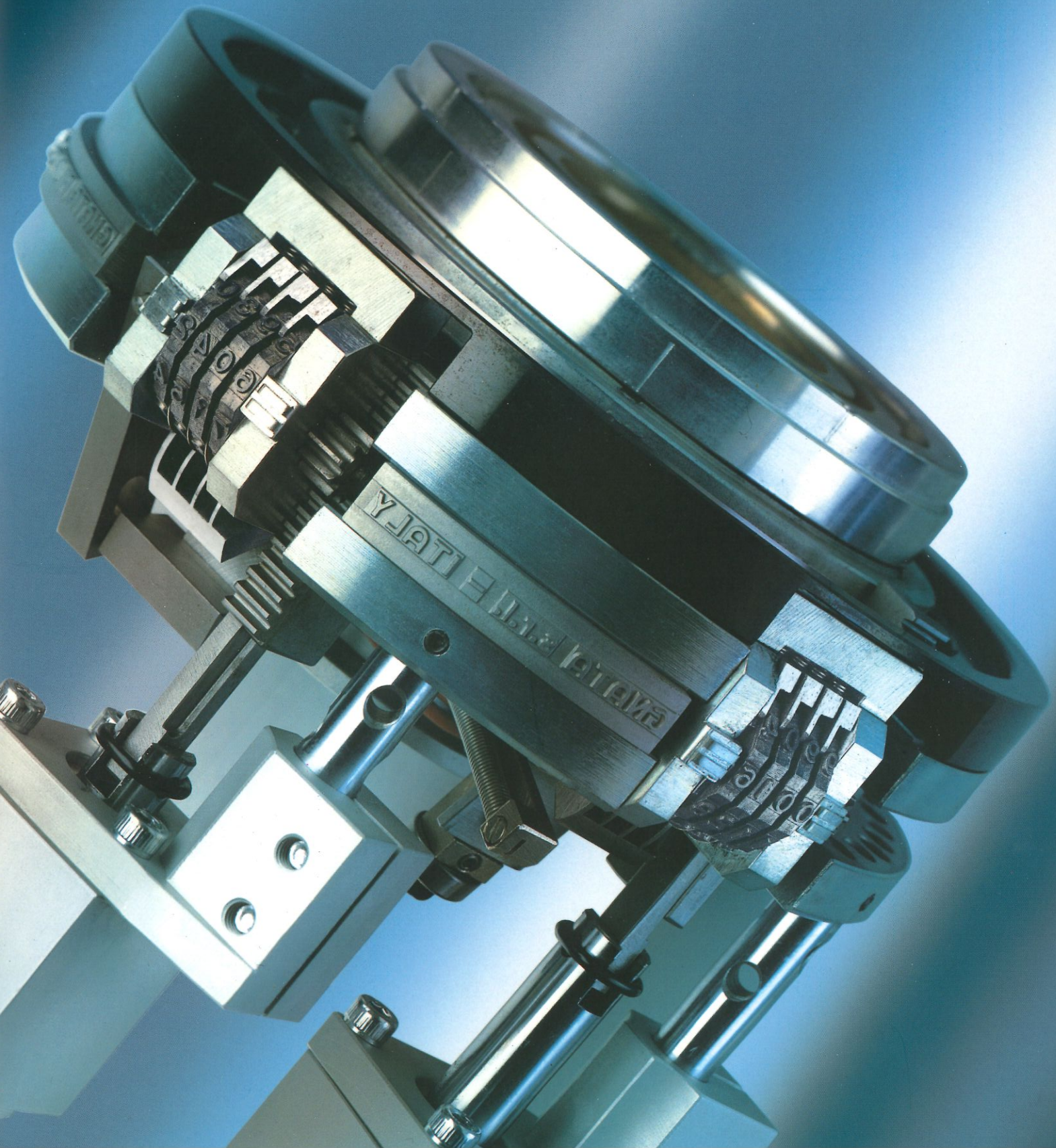


# GNATA

MARKING MACHINES





## **PAST AND FUTURE**

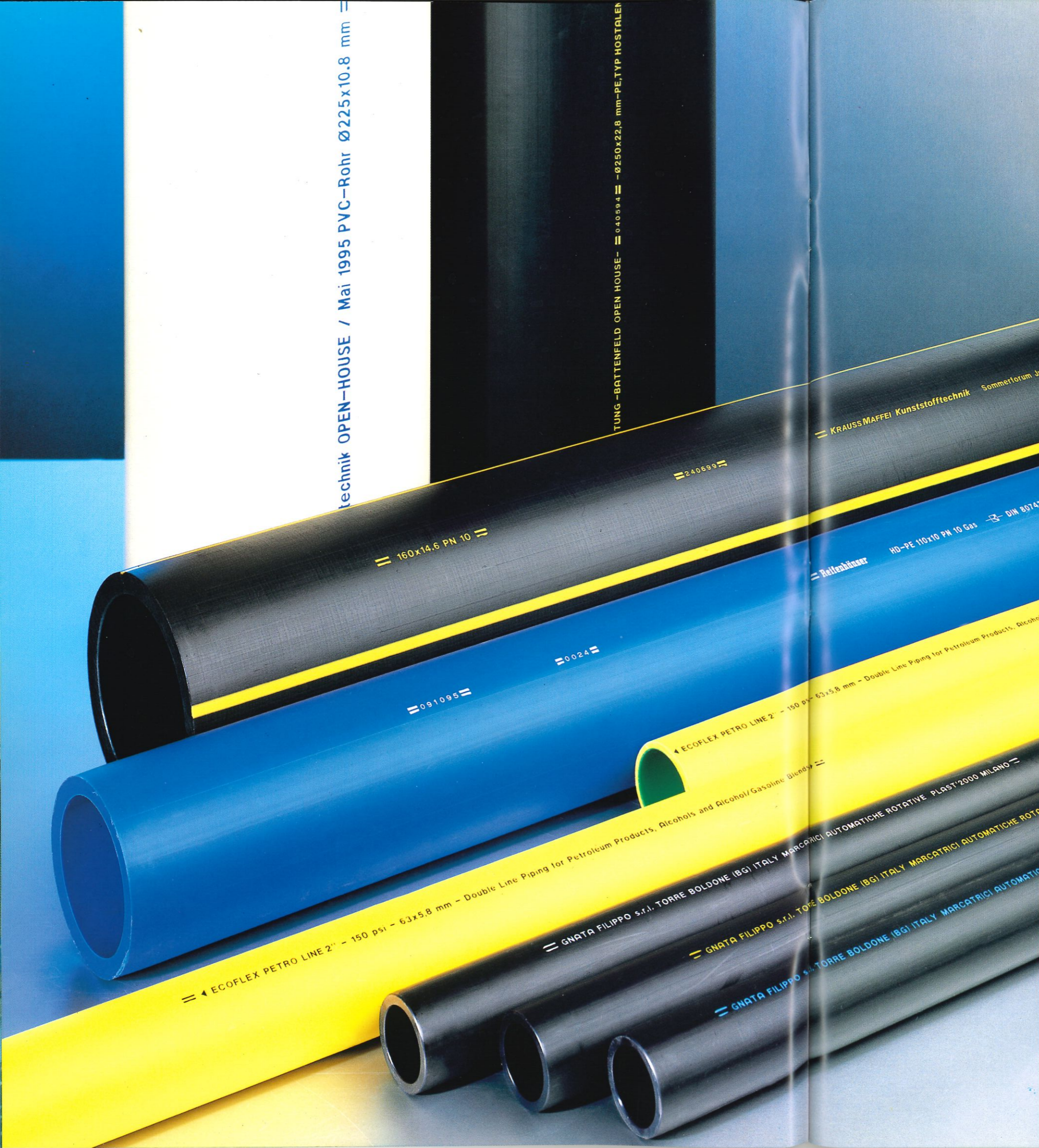
The best guarantee  
we can offer is our 40 years'  
success-filled past and a future  
committed to defending and  
improving our position  
on the market.



## GNATA PHILOSOPHY

GNATA has an operating, engineering and design system that utilises state of the art technology. Continual investment enables GNATA to produce a product of the very high quality and standard required in the market today. Highly qualified and professional personnel carry out the whole design and production in house.





## FIVE REASONS TO CHOOSE THE HOT MARKING SYSTEM

- Suitable for a wide range of plastic materials
- Clarity of print
- Indelible marking
- Flexibility of changing the ribbon colour and a wide choice of stamp sizes
- Simple to use



## THE MACHINE AND ITS FUNCTIONS

GNATA machines are designed to hot mark with coloured ribbon on pipes and cables in the extrusion line on materials such as PVC, PE, PP, ABS and NYLON.

A range of models is available to mark from 6 mm up to a maximum of 1600 mm.

Any chosen print can be produced using steel or bronze stamps, which are assembled on the heated marking wheel. A resistance heater electronically controlled heats the stamps. Printing on the pipe is determined by what colour of ribbon is placed between the stamp and the product.

Each GNATA printer is customised to suit specific requests using the following options:

### MARKING PITCH MODE

\* Metric      \* 2 feet      \* 3 feet

### MARKING MODE

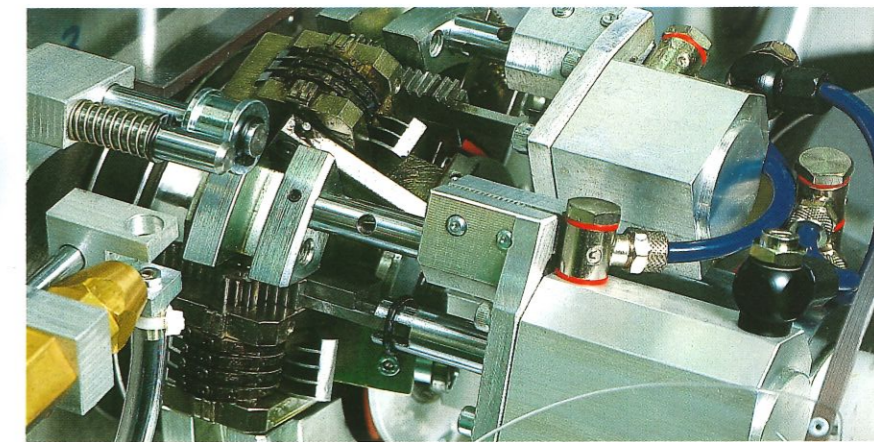
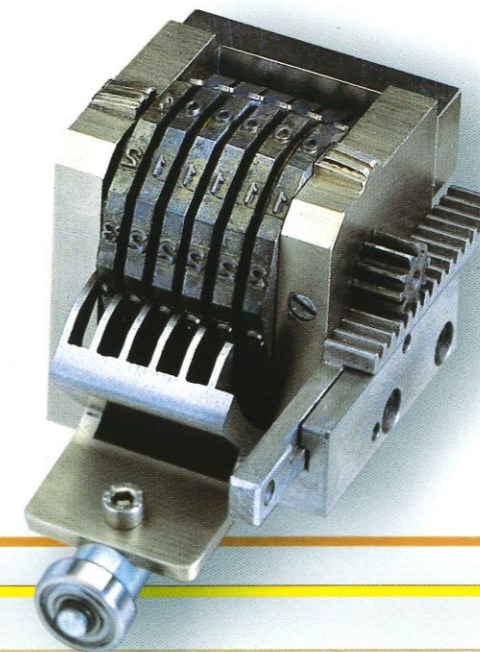
\* Upper      \* Lower      \* Lateral  
\* Upper and lower at the same time

## MARKING SPEED:

- \* 12 mtrs/min basic model printer and friction system for tape collection
- \* 35 mtrs/min with printer equipped with Venturi system for the collection of used ribbons
- \* 150 mtrs/min with printer equipped with accumulator system to keep the ribbon at a constant tension

## MAIN OPTIONS:

- \* System for the collection of used tape through Venturi suction (max. Speed 35 mtrs/min)
- \* End of tape indicator
- \* Fibre optic detector for any breakage in the tape
- \* Mechanical counter with 3-4 or 5 digits for the progressive measurement in metres or feet
- \* Mechanical counter with 3 or 4 digits for the coil numbering
- \* Automatic zero setting of the meter counter
- \* Pneumatic feed of the coil numbering for the metric or 2 feet marking wheel
- \* Mechanical date groups or encoders from 4 to 12 digits with manual shift
- \* Tandem support system for 2 ribbons each 1530 metres long
- \* Tandem support system for 2 ribbons each 3000 metres long
- \* Accumulator device for a constant tension of the ribbon during the marking, for 1 jumbo coil each 20,000 metres long - max. marking speed 150 mtrs/min
- \* Accumulator device for a constant tension of the ribbon during the marking, for 2 jumbo coils each 20,000 metres long - max. marking speed 150 mtrs/min
- \* Device with double accumulator for the automatic pneumatic change between 2 jumbo coils
- \* Pneumatic opening device of the guide wheels to allow the passage of any cable/pipe imperfections
- \* Infrared temperature detector with digital regulator
- \* "Brush-less" motorization with encoder for a precise metric/feet measurement
- \* Siemens PLC with several functions for printer control



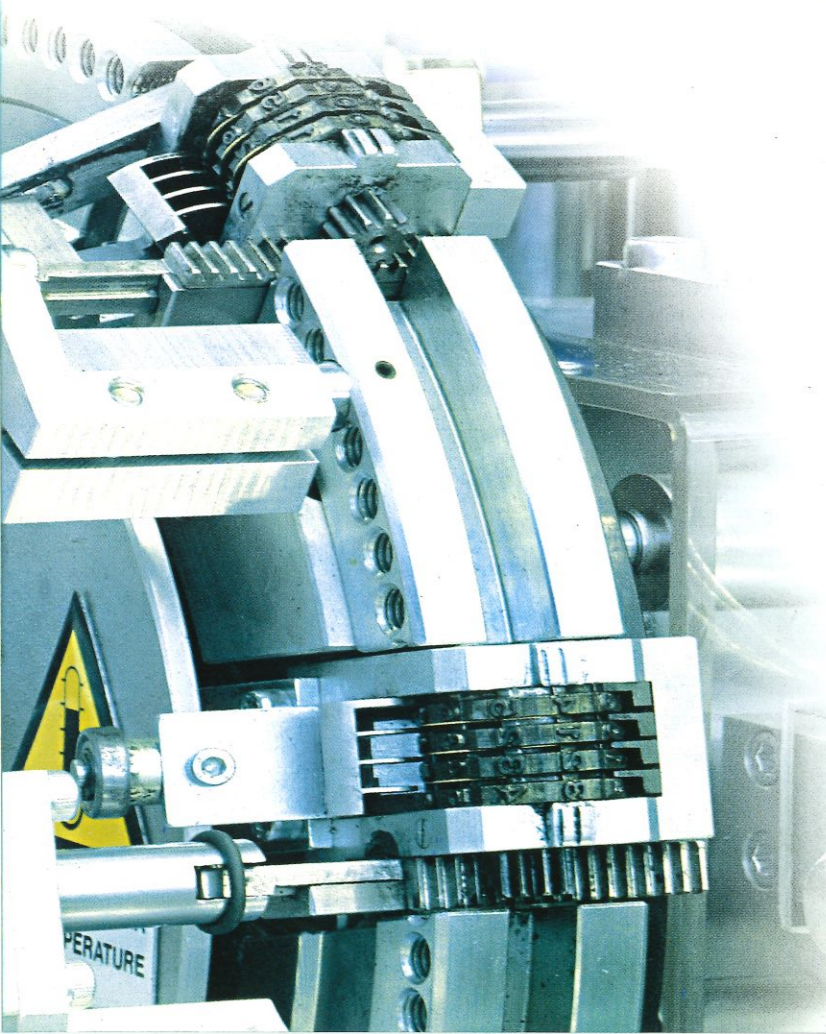


## PRINTERS FOR THE CABLE INDUSTRY

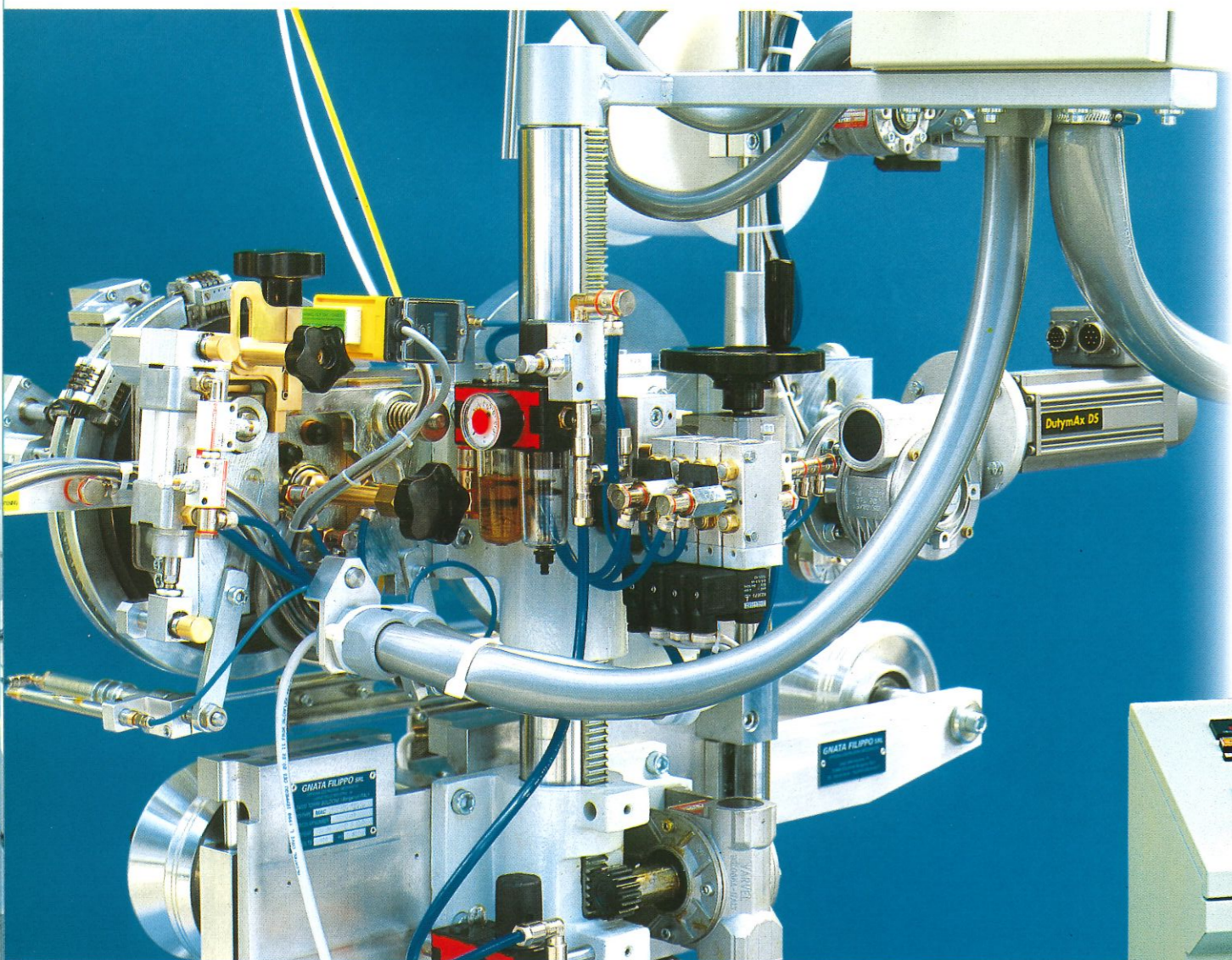
The hot marking principle with coloured ribbons is the best system to use for permanently identifying cables with Polyethylene outer cover. Our system is unbeatable and is recommended by leading cable manufacturing companies worldwide for marking fibre optic, electrical and technical cables for special applications. The specially designed printers for this application incorporate advanced technical features based on our long experience, as shown in the following pictures.

### COMBINATION METRIC/FEET HOT FOIL PRINTER

- 1. Accumulator device for constant ribbon tension**
- 2. Support for motorised jumbo coils**
- 3. Encoder to survey cable running speed**
- 4. Pneumatic opening device for the passage of cable imperfections**
- 5. Container for the collection of used ribbon**
- 6. Pneumatic recall of the marking wheel in case of line standstill**
- 7. Mechanical counter for metre marking and coil numbering with pneumatic operation**



This picture shows a printer with marking wheel with 2 feet development. In combination version, a kit of components is supplied with the machine to enable the customer to convert the printer to metric operation if required. To convert the printer from 2 feet to Metric pitch takes approximately 5 minutes.



This picture shows the back of the combined version printer.

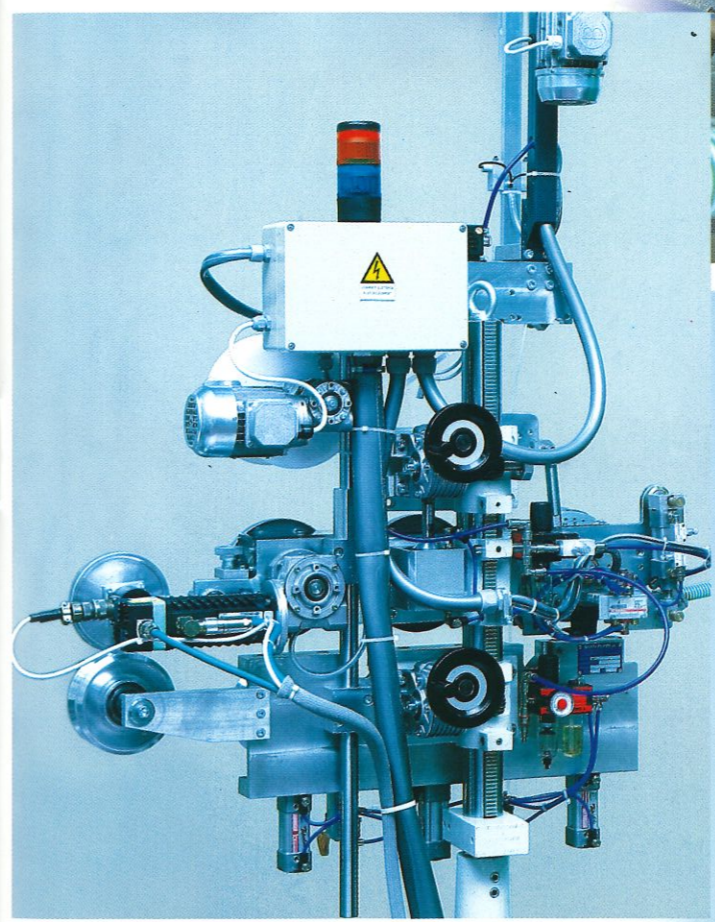
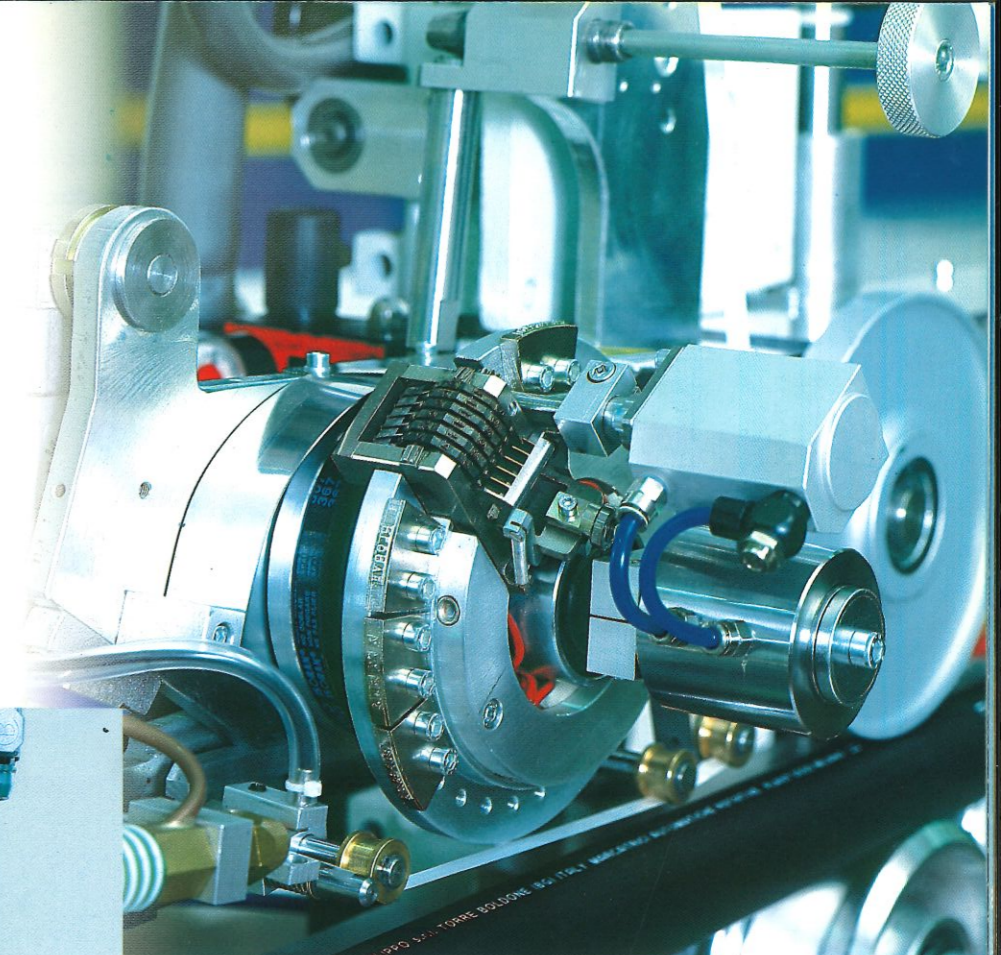
It shows the infrared system that precisely monitors the set temperature of the marking wheel. What is also visible is the "brush-less" motor used to drive the printer.



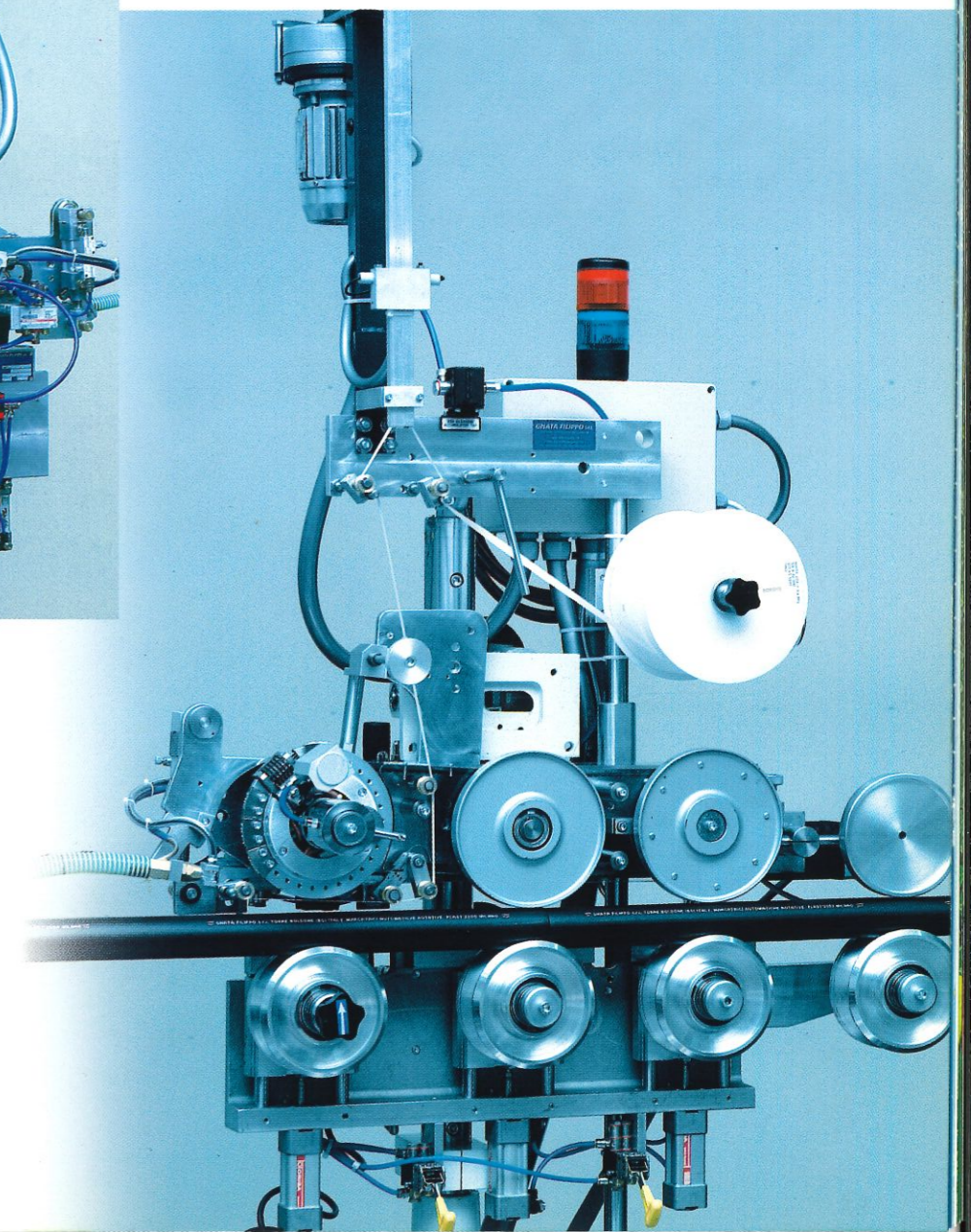


This picture shows a metric marking wheel assembly with counter with automatic zero reset, together with a counter for coil numbering with automatic feed. In addition clearly shown, is the device for the automatic change-over between two coils of ribbon. This operation takes place automatically whenever an end of tape or a tape breakage is detected and enables long periods of uninterrupted working.

2 feet marking wheel with 6 digit counter with automatic zero setting



2 feet motorised version marking machine for high extrusion speeds (back view)



Marking machine, motorised version, with 2 feet marking wheel



Cable sliding correction with min. tolerance of 0.1 mm

PLC for printer functions management and dialogue with production line

For cable production lines, accurate marking of the length is vital. The control panel of our printer incorporates advanced control features.

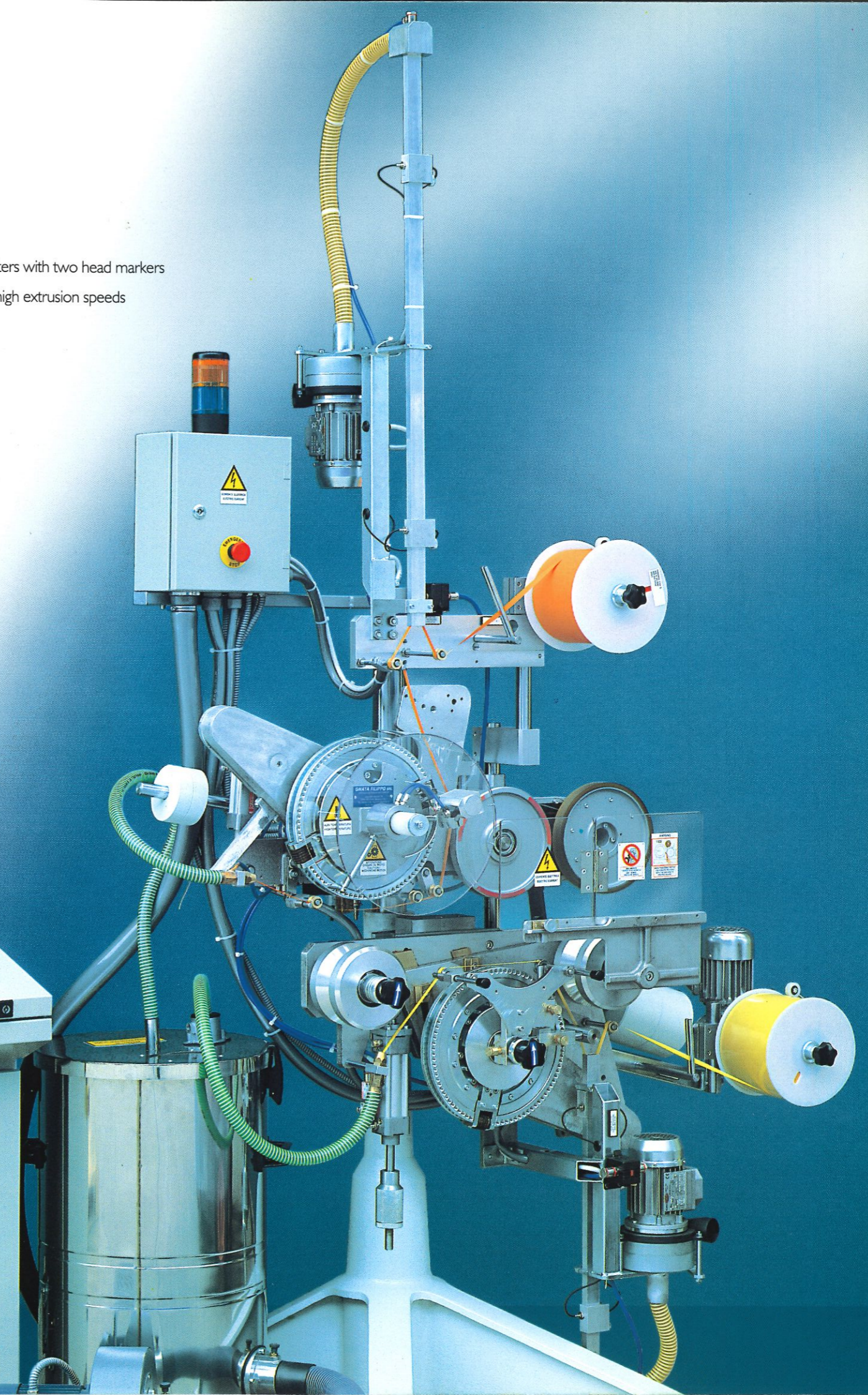
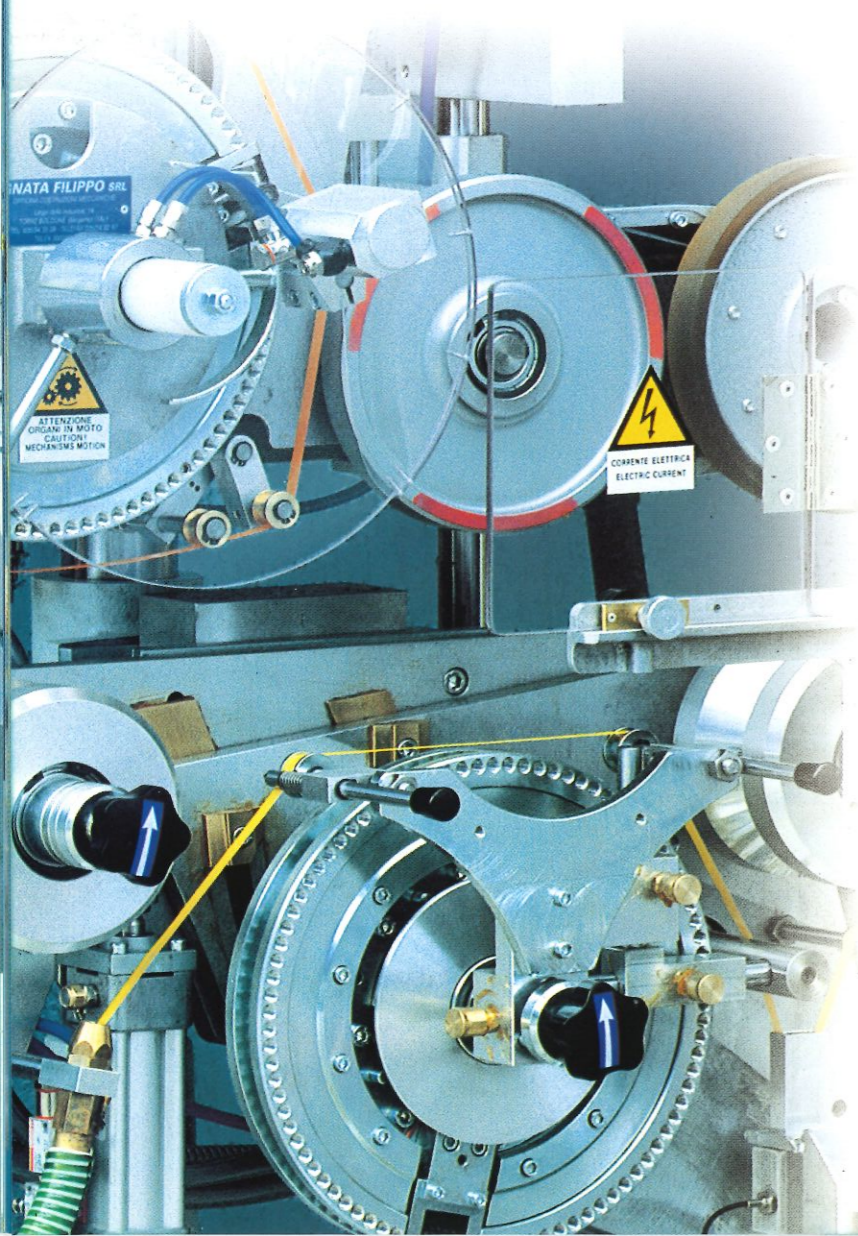
Electronic regulator for temperature of marking wheel

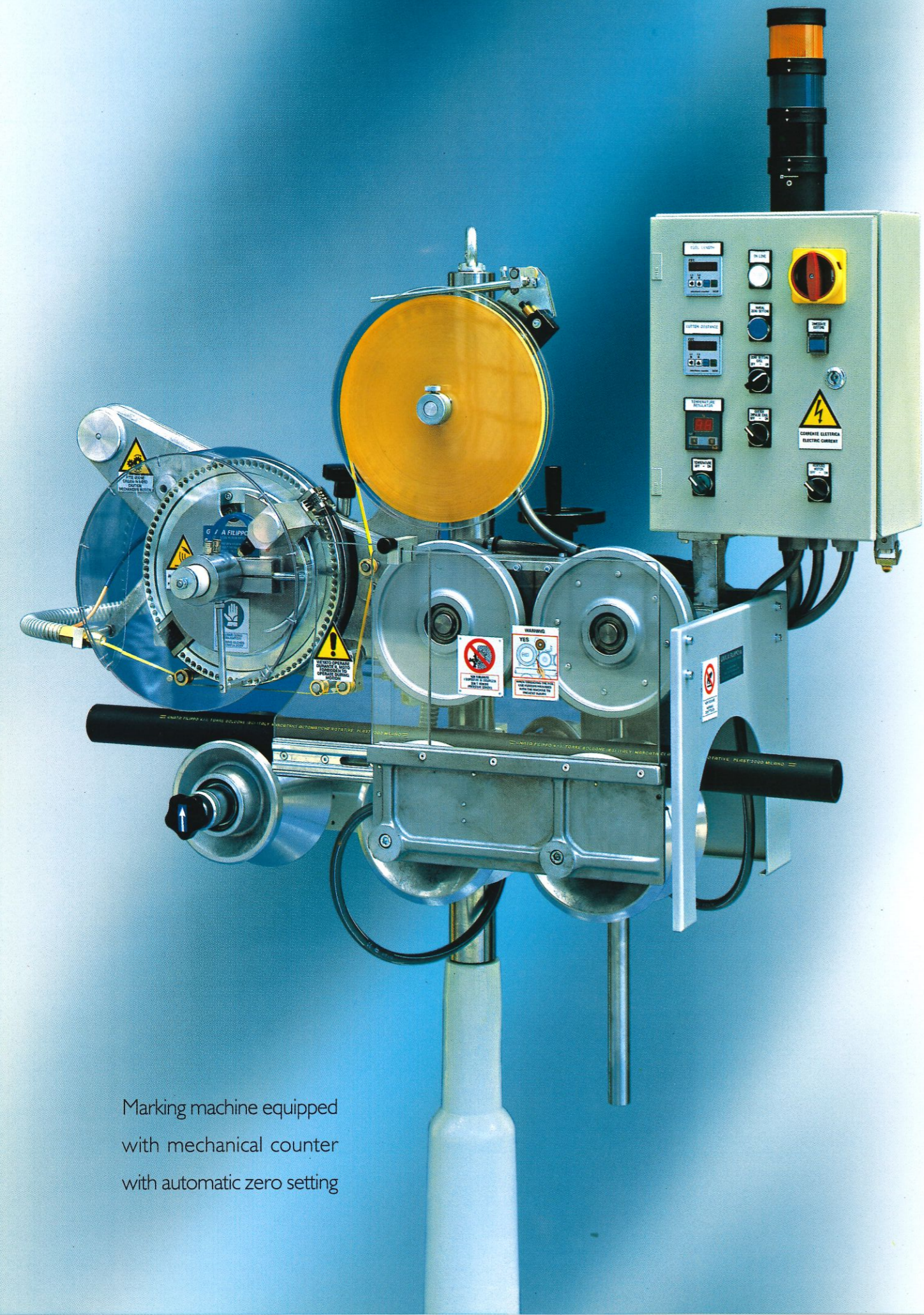


**PRINTERS FOR THE PIPE INDUSTRY**

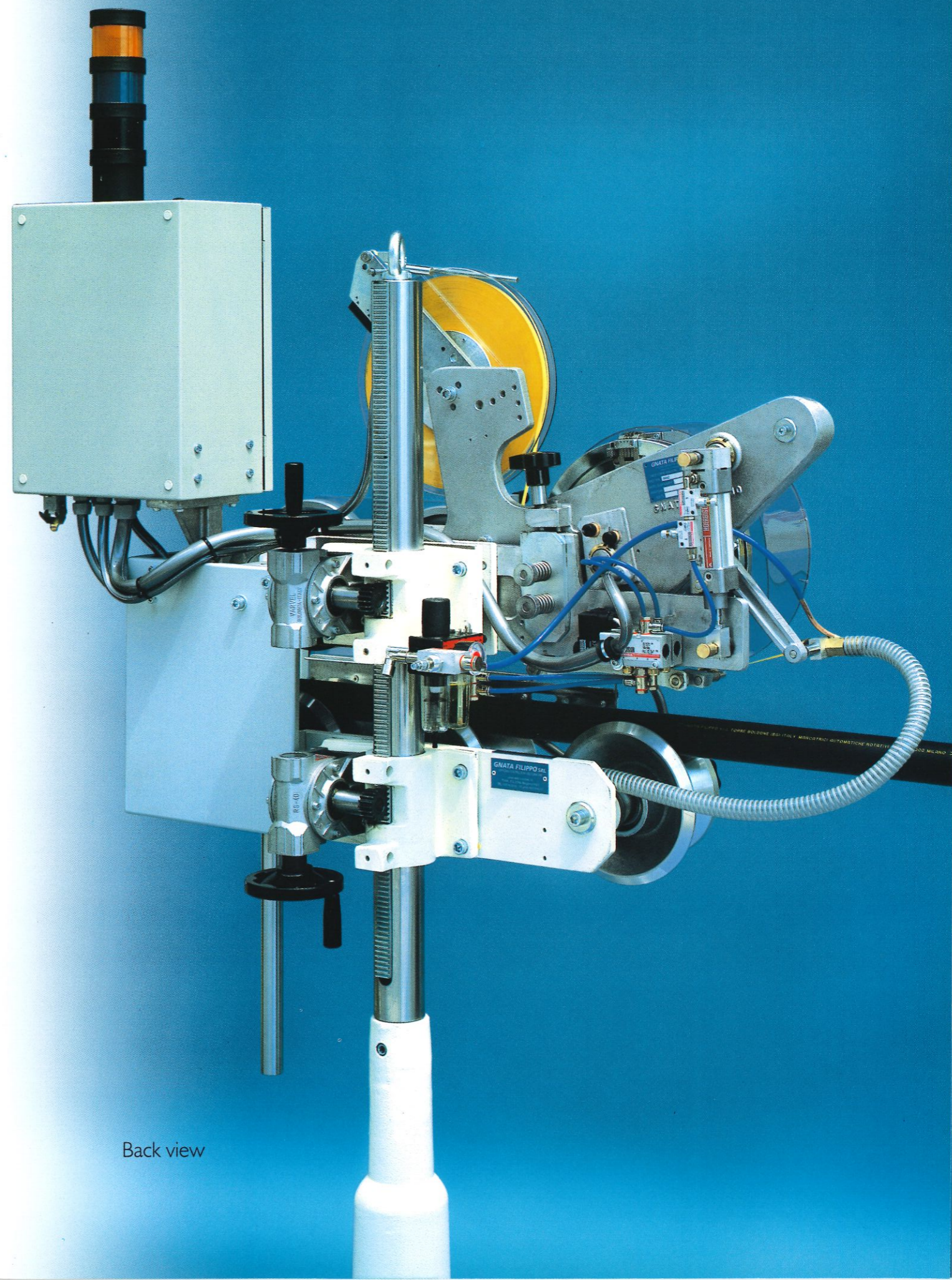
Our Company still gives special attention to the marking of pipe, which has been our core business over the last 40 years. We have sold over 8000 printers in this market, and constantly comply with new requests from customers world-wide. The following pictures give you a general view of our production.

Printers with two head markers for high extrusion speeds

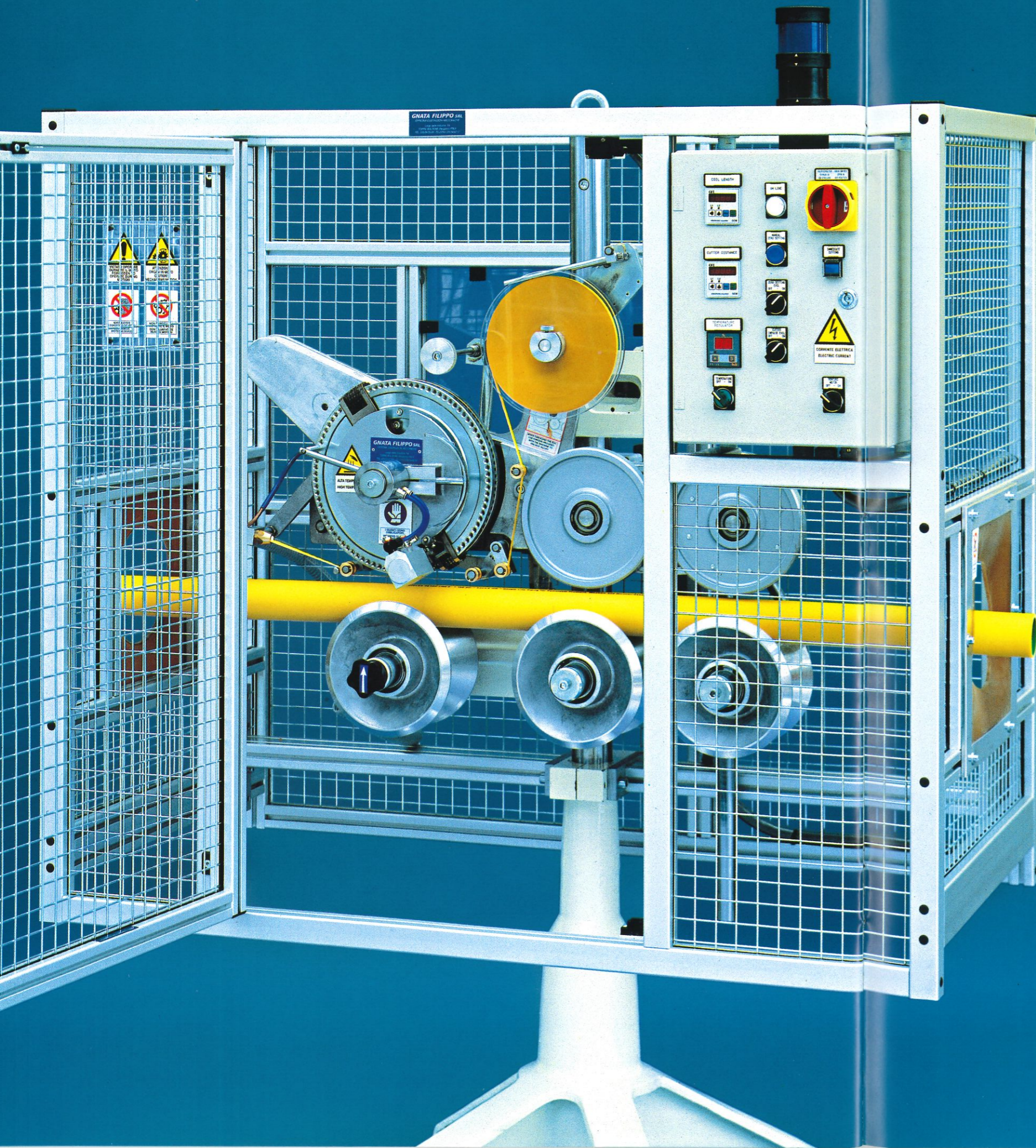




Marking machine equipped  
with mechanical counter  
with automatic zero setting



Back view

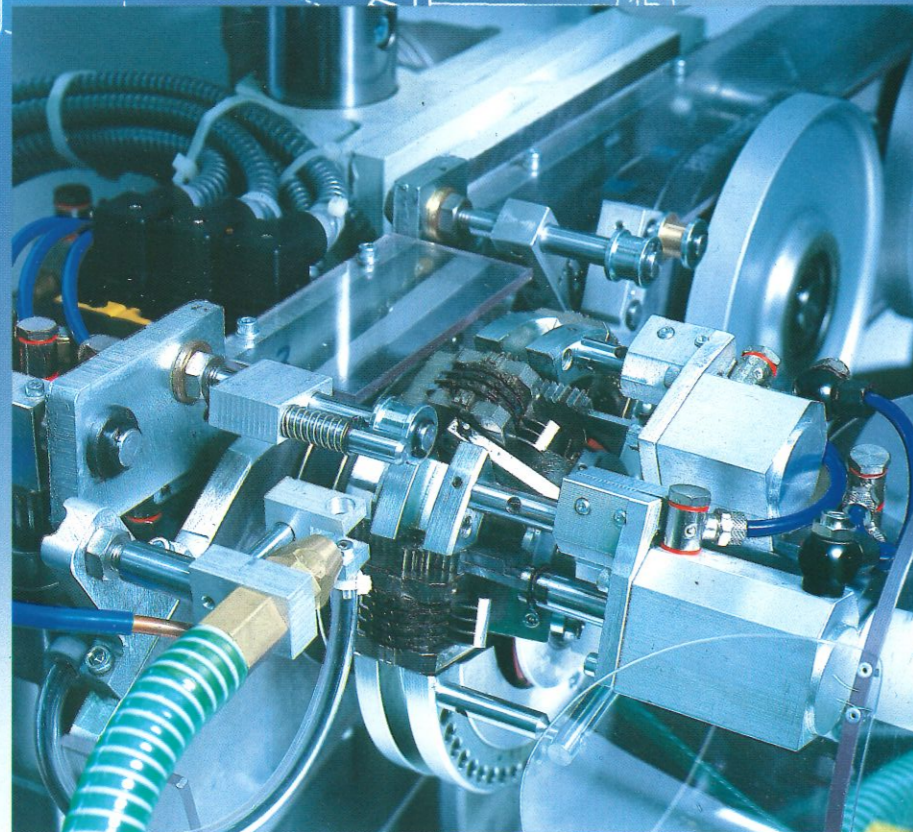
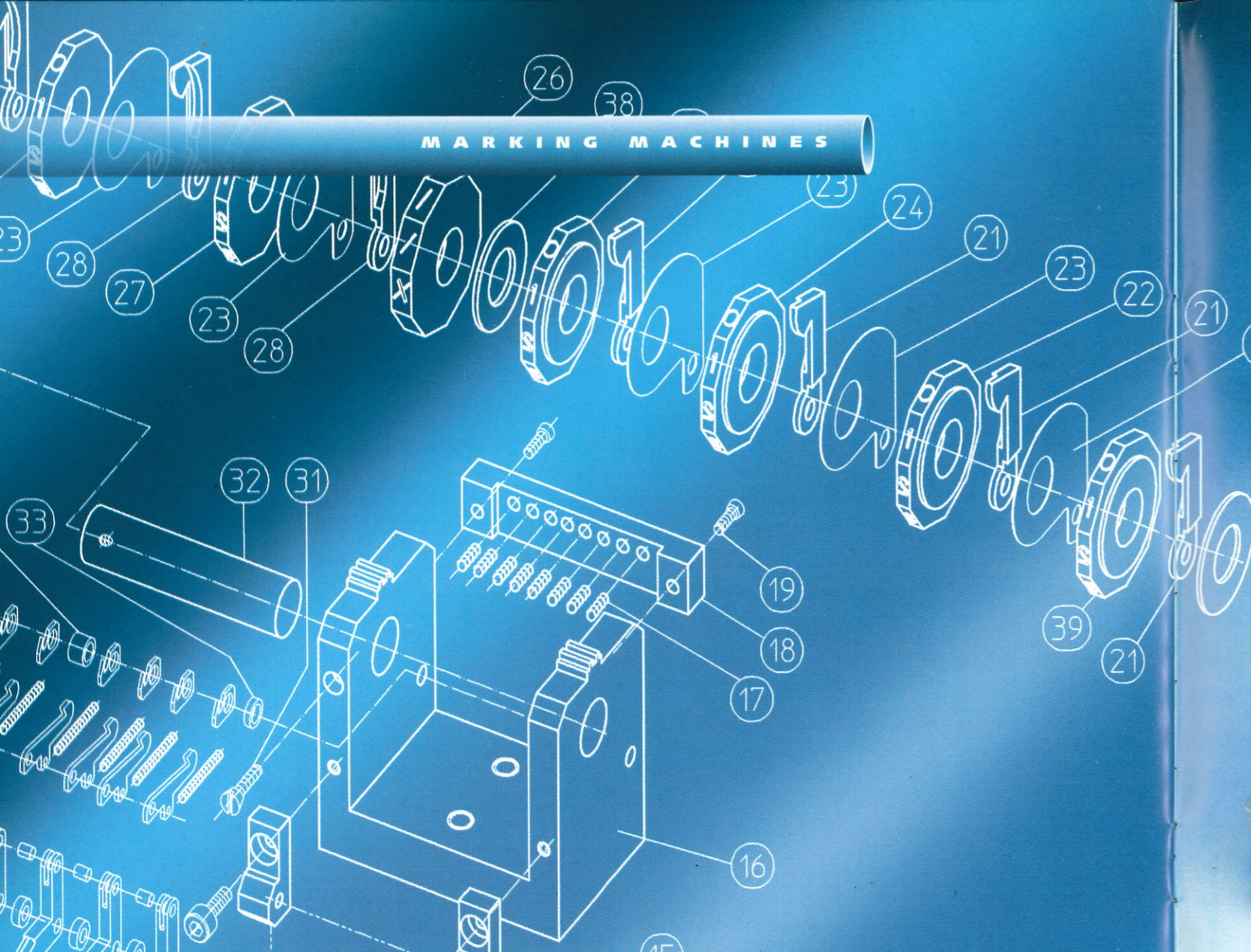


Marking machine with automatic zero setting of the meter counter for lines of polyethylene pipes.

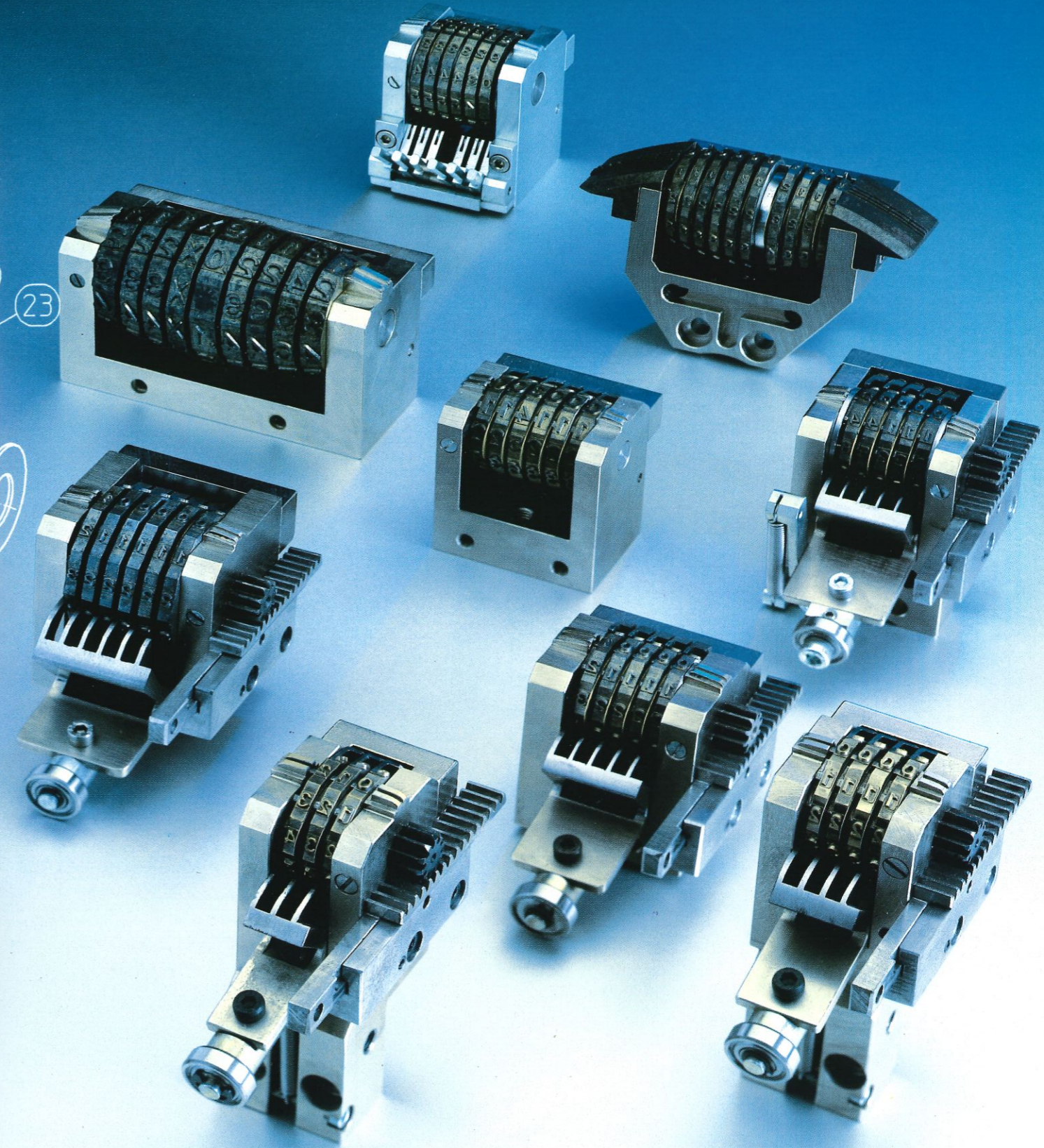
Back view



MARKING MACHINES

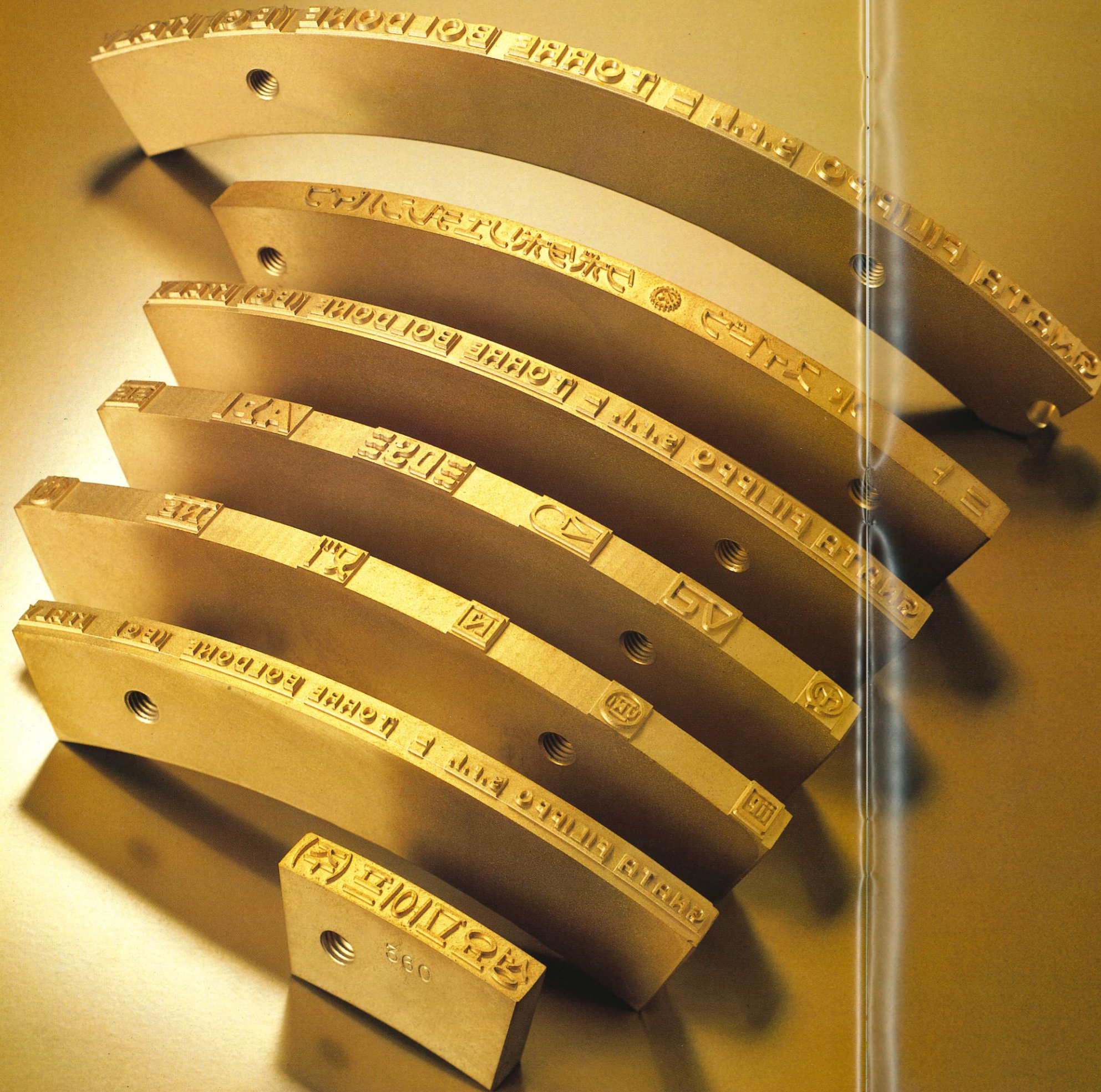


Marking wheel with feet counter and coil counter



**COUNTERS AND BATCH CODERS**

Our Company pays particular attention to these important mechanical devices. The picture shows some versions of both standard and customised counters, which bear out the flexibility of our production. Also in this field, we use the best and highest technology for the manufacturing process in order to achieve the goal of the total quality.



## THE HIGHLIGHTS OF OUR SALES AND MARKETING

### STAMPS

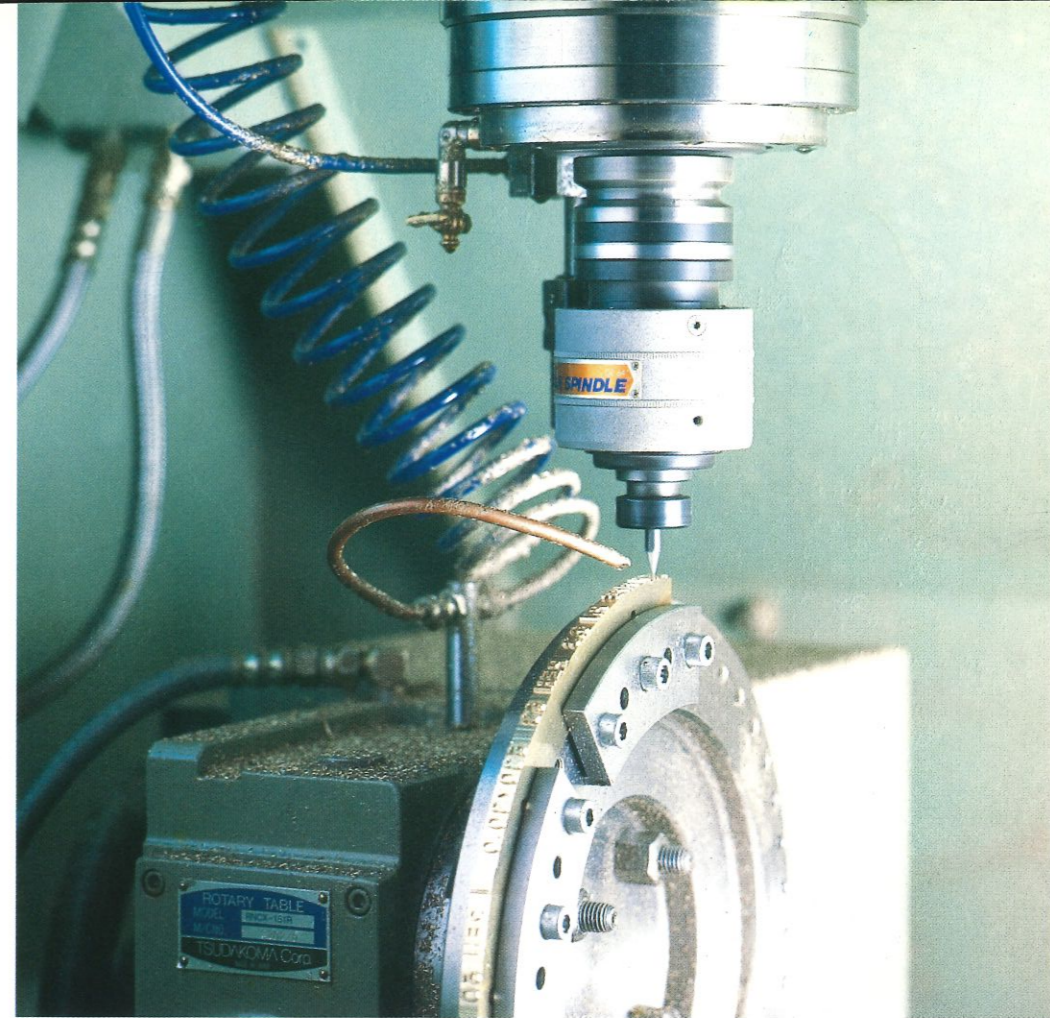
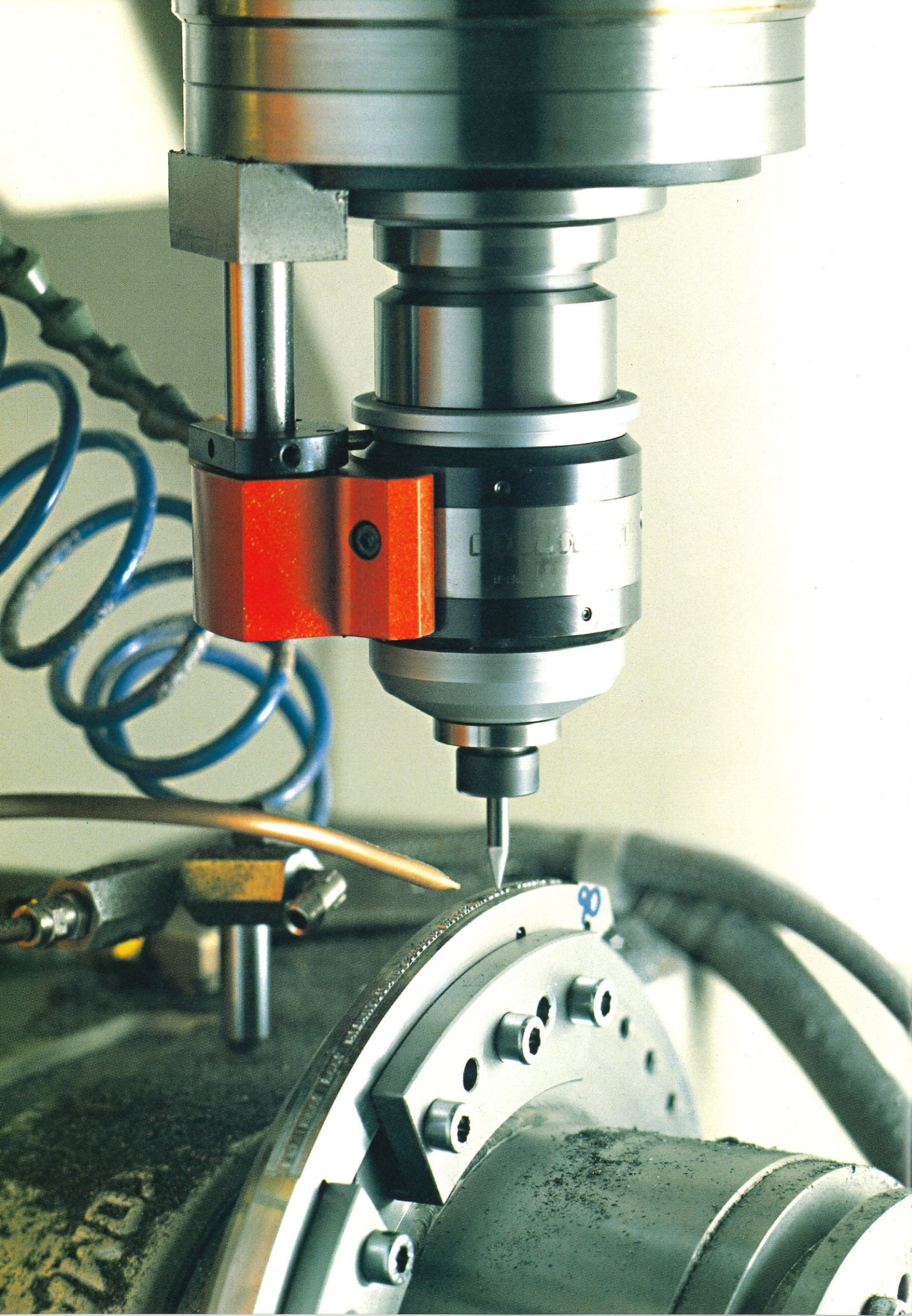
Market trends now require much quicker lead times for stamps. As a result of this we have invested in more advanced technology and machinery to meet customer requirements. The level of investment committed has enabled us to acquire several machining centres and CAD/CAM stations.

We are currently able to manufacture and deliver our stamps to anywhere in the world in 24/48 hrs due to state of the art equipment.

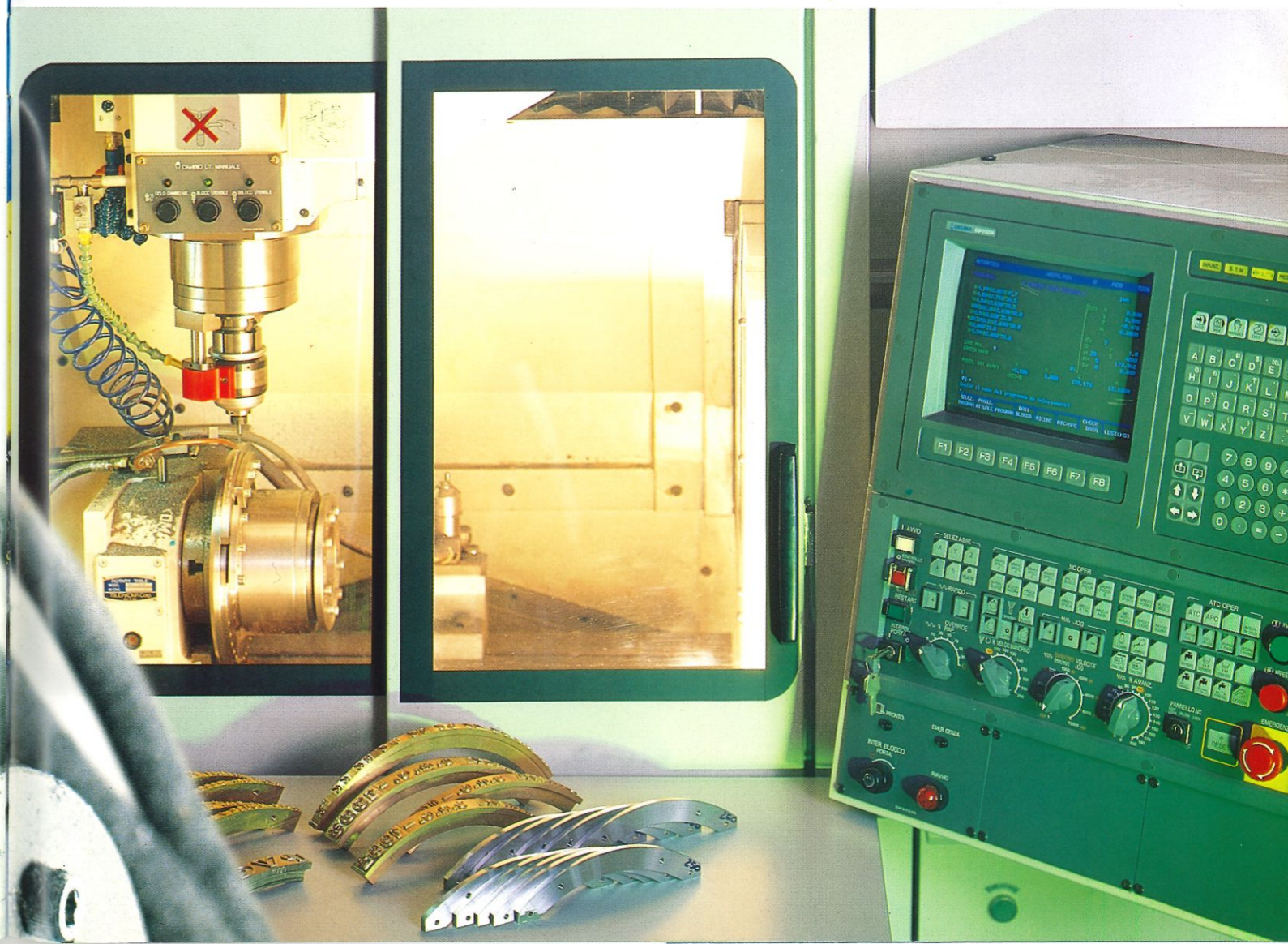
Customised stamps are easily available without limitation, for example; trademarks, bodies of legislation, international alphabets (Arabic, Chinese, Japanese, Cyrillic etc.). The **"just in time"** slogan for us is a reality.

CAD for the study of personalised programs





machining centre





## MARKING RIBBONS

One of the main advantages of the marking system is the flexibility in colour change.

This is due to investment in large quantities of ribbon which we stock up in many colours and sizes.

The required measurement are from 610-1530-3000 metres or even 20,000 metres, usually in the cable industry, but height can vary from 9 up to 25/30 mm when needed for specialist applications.

The pigment compound in the ribbons also guarantees indelibility in the marking without using any toxic elements.







Our world-wide scope of customers supply could not be achieved without the help of about 50 reputable Agents who have constant contact with their customers. This allows GNATA to be kept up to date with current customers and market requirements.

## A FAMILY, A COMMON VISION

GNATA, above all being a Company, is a family bound by a common vision, which was born in 1961 in the form of the first GNATA Hot Foil Marking Machine, thanks to the innovative mind of Mr Filippo, supported by his wife Maria.

Today GNATA is a market leader in the field of Hot Foil Marking Machinery and has established its excellent reputation with Marking Machinery being supplied world-wide. A vision, enthusiasm and reliability are what enable the company to continue to grow so successfully.

The main objectives are to offer a high quality, reliable product and to always be able to offer the customer and the current market what is required. This is satisfied by continual in house development.

The GNATA Company would like to thank all its customers who during the past 40 years have had faith in their products and its continual development. To Companies new to the GNATA name we hope we have illustrated our enthusiasm and commitment to our products, which has enabled us to become market leaders in the field of hot foil marking machine.

Our company is constantly seeking ways to improve the specifications, design and productions of its HOT FOIL MARKING MACHINES and alterations take place continually. Whilst every effort is made to produce up to date literature, this brochure should not be regarded as an infallible guide to current specifications, nor does it constitute an effort for the sale of any particular printers.



MR. FILIPPO GNATA - CHAIRMAN



MRS. MARIA TERESA GHISLANDI - FINANCIAL CONTROLLER



MR. ROBERTO GNATA - MANAGING DIRECTOR



MRS. ELENA GNATA - GENERAL MANAGER

# GNATA FILIPPO S.r.l.

OFFICINA COSTRUZIONI MECCANICHE  
Largo delle Industrie, 14  
24020 TORRE BOLDONE - BERGAMO - ITALY  
Tel. ++39.035.343309 (4 linee)  
Fax ++39.035.346257 (2 linee)  
Internet: [www.gnata.it](http://www.gnata.it)

