

SINICO[®]
MACHINE TOOL MANUFACTURING

SINCE 1962



Company presentation

Our
imprint
over time

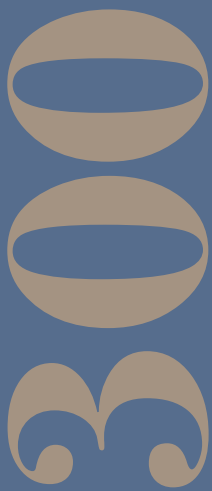
We are sure you will find many of them in our machines!



Index

Pag. 04 - 15	Company Overview
Pag. 18 - 19	Sinico Top 1100 R2 CNC
Pag. 20 - 21	Sinico Top 1100 CNC Plus
Pag. 22 - 23	Sinico Top 2000 R1 CNC
Pag. 24 - 25	Sinico Tap 4200
Pag. 26 - 27	Sinico Tap 8200
Pag. 28 - 29	Sinico Tap 6600
Pag. 32 - 33	Caorle CMV 60
Pag. 34 - 35	Caorle CL 90
Pag. 36 - 37	Caorle MC 650
Pag. 38 - 39	CaorleCL 151 Utronic
Pag. 40 - 41	Areas of application
Pag. 42 - 43	Company strengths
Pag. 44	Sinico Service contact

**200 beats of wings per second,
a miracle of nature without equal.**



**300 pieces per second,
this is the average production
of Sinico machines
all around the world.
This is the prodigy
we are proud of.**



The philosophy

The experience of our founder Egidio Sinico is the well from which our operating philosophy springs, the same philosophy that today drives his sons, an indelible stamp of dedication to work, product quality and correct market positioning.

The wealth of knowledge accumulated over 50 years of business certainly forms a valuable guideline for tackling an increasingly varied and flexible market.

A skilled team always dedicated to research and innovation, a cutting-edge workshop: this is the place where we've always developed our passion for forging technologically advanced creations to meet the most complex needs.

The story

Founded in 1962 by Mr. Egidio Sinico, after initial sub-contract manufacturing activities, the Company began the production of hydraulic presses for local market, but its efforts soon shifted to the production of metalworking machine tools, and subsequently a manual machine for motor shaft centering was developed. This became the foundation for Sinico's production of cutting-off/centering machines (TC models, 1969).

In 1972, the Company created an automatic cut-off rotary transfer machine (TR model). This innovation for bar cutting and its associated transfer system increased the number of operations, which could be performed on the workpieces.



1962



During the 70's Sinico S.p.A. exported abroad 30% of its production proving its international vocation up to the present day to exceed 80%.

During the 80's the continuous investment, the development of electronics, the introduction of first PLC make the company become world leader in the manufacture of automatic transfer machine.

In 1994 Egidio Sinico's sons, Alessandro and Giancarlo took the place of their father in the company's management; nowadays the Company is 100% owned by Sinico Family.

For all the 90's Sinico products have seen an ever increasing application in the automotive industry where quality and precision are driven to ever higher levels.

The company

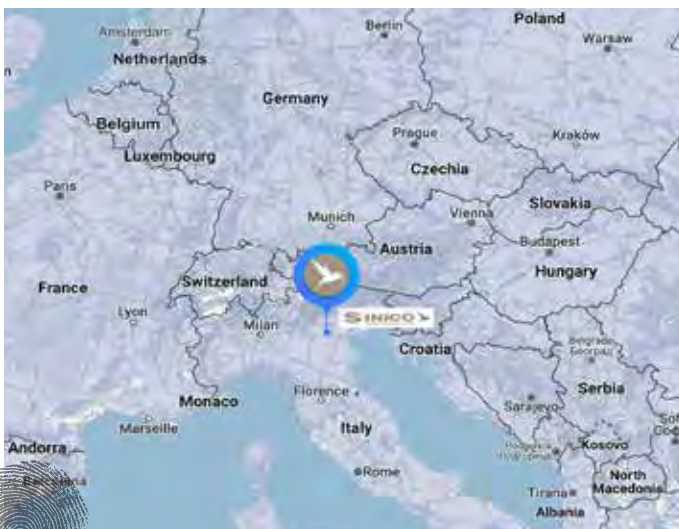
2024



SINICO Service S.r.l. is specialized in the design and manufacture of AUTOMATIC ROTARY TRANSFER CUT-OFF AND END-FINISHING MACHINES, suitable for producing medium/large series of metal parts (steel, stainless steel, copper, brass, aluminium, titanium, Inconel etc.) from tubes, bars, coils, forgings and blanks.

Men and means mesh a synergic machine, making our company a reliable, highly qualified partner offering your production lines unbeatable competitiveness.

In its Montebello Vicentino facility in Italy's Northeast - 23,000 sq m of modern, functional space - SINICO Service S.r.l. has teamed taste with technology. The aesthetics and operating adaptability give visitors a sense of our philosophy. Moreover, we continue to implement a serious policy based on innovation and investment, channelling efforts into the research for new ideas to tackle a dynamic and constantly expanding market that is, at the same time, demanding and increasingly concerned with good taste.



2016 saw the birth of Sinico MTM US Inc, a significant step symbolising our growing commitment to the US market.

Strategically located to better serve our customers in the US, the new subsidiary is located in the bustling suburbs of Cleveland Ohio. This location was carefully chosen to provide easy access to major industrial and commercial centres, allowing Sinico to offer fast and efficient services to a wide range of customers.





- **2** Operating locations around the world
- **2600** pieces per hour, average production of Sinico machines
- **600** pieces shipped per day from our warehouse
- **11,000** Square metres of operating space
- **98** Employees
- **1600** Machines installed worldwide
- **570** Kw of photovoltaic system



Quality and innovation



With its high level of experience and professionalism, our staff setup has been designed to assure constant control of operations in each and every specific department. Whether it be standard machines or units tailored to the customers' specific needs, all our creations are designed, developed and manufactured in house. All workspaces are divided up rationally, split into product manufacturing areas (design, production, assembly, testing) and the various offices and departments (administration, sales, marketing, purchasing, warehouse and shipments).

SINICO... A focussed organization raring to take up the challenges of the third millennium.

Unrelenting investment into technology is the key to in-depth evolutionary research, enabling us to devise up-to-the-minute solutions to design and manufacturing problems. A technologically sophisticated test room provides a stage for in-depth testing on materials and furnishes operating solutions that aim to give our production departments cutting-edge solutions and a major boost to productivity.



Production

Once the machine is set up, it is put through its paces with thorough inspection tests, using the original material supplied by the customer. Then, before the actual delivery, engineers sent by the firm check to make sure the equipment ordered is working perfectly before confirming final acceptance.

The care taken in choosing components and in assembling them according to a quality- and performance-based logic means we can unite the concept of a compact, innovative machine with a high level of reliability. All our machines are developed, tuned and produced according to high operating standards.

Many of the specific components are produced at our facility by highly specialized operators, in a comfortable workroom equipped with the latest technologies.



95%

95% of the components to build our machines are manufactured in our factory by specialised operators and with the most modern technologies.



Special applications



Measuring and centring system

One of the main features of the SINICO Service S.r.l. is the product customization to the customer's specifications.

This characteristic differentiates us from many of our competitors and has allowed us to pursue a continuous technological evolution looking for more sophisticated solutions and taking advantage of increasingly qualified suppliers that today have become true business partners.

Generally, the starting point of our installations are the classic models TOP 2000r1 and TOP 1100r1 to which are added all the devices required to meet the production requests.

These customizations can be internal to the machines or even full external devices that are added in line with the machine.



Punching station

Our imprint
on everything
we do.

Blank loading robot







Sinico TOP 1100 r2 CNC



General specifications

Machine weight	7000 Kg
Installed power	70 kVA

Working range

Diameter	4-60 mm Length: 10-200mm
Length of loadable bars	2500 - 6500mm / standard

Operating units	HSK 50
Motor power	5,5/7,5 kW
Spindle rotation range	400 - 4500 rpm

Cut off unit

Motor power	5,5/7,5 kW
Blade rotation range	30 - 300 rpm
Blade diameter	285/350 mm

Full automatic cut to length machine and parts end machining process.

Machine productivity up to 2750 Pcs/h

Bar loading time only 6 seconds

Working cell totally closed

Sinico standard bar loader

or with automatic bundle magazine

Chip conveyor

Liquid coolant/lubricant system

Std. unit for use with emulsion

Available options:

- Copper/Aluminium chips treatment station

- Parts inspection device with G/NG independent exit way

Electric system standard series CNC Fanuc



Some pieces produced

Sinico TOP 1100 CNC Plus



General specifications

Machine weight 9900 Kg

Installed power 83 kVA

Working range

Diameter 6-95 mm
Length: 10-550mm

Length of loadable bars 3000 - 6500mm / standard

Operating units HSK 63

Motor power 7,5 kW/11kW

Spindle rotation range 450 - 4000 rpm

Cut off unit

Motor power 11/15 kW

Blade rotation range 40 - 400 rpm

Maximum blade diameter 450 mm

Full automatic cut to length machine and parts end machining process.

Machine productivity up to 2600 Pcs/h

Bar loading time only 7 seconds

Working cell totally closed

Sinico standard bar loader

or with automatic bundle magazine

Chip conveyor

Liquid coolant/lubricant system

Std. unit for use with emulsion

Available options

Copper/Aluminium chips treatment station

Parts inspection device with G/NG independent exit way

Electric system standard series CNC Fanuc



Some pieces produced

Sinico TOP 2000 r1 CNC



General specifications

Machine weight	8900 Kg
Installed power	93,5 kVA

Working range

Diameter	6-95 mm - Length: 10-110 mm
Length of loadable bars	3000 - 6000 mm / standard 7000 - 9000 mm o 12000 su richiesta

Operating units	HSK 63
Motor power	7,5/11/15 kW
Spindle rotation range	400 - 4500 rpm

Cut off unit

Motor power	11/15 kW
Blade rotation range	40 - 260 rpm
Blade diameter	315 mm

Automatic cutting and bar end working machine with electro-mechanically controlled axes

Machine productivity up to 2500 Pcs/h

Bar loading time only 6 seconds

Working cell totally closed

Sinico standard bar loader

or with automatic bundle magazine

Chip conveyor

Liquid coolant/lubricant system

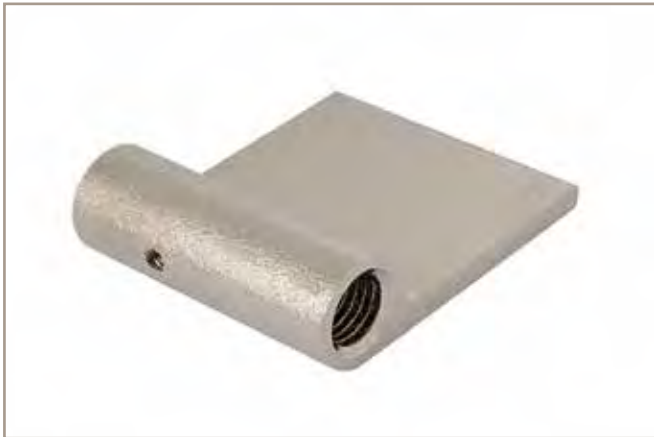
Std. unit for use with emulsion

Available options

- Copper/Aluminium chips treatment station

- Parts inspection device with G/NG independent exit way

Electric system standard series CNC Fanuc



Some pieces produced

Sinico TAP 4200



General specifications

Machine weight	8700 Kg
General dimensions	2.560 x 4.100 x 3.200 mm
CNC	Fanuc
Components feeding	Anthropomorphic robot on request
Tapping dimension max	M36, G 2 1/4", NPT 3/4", BSF 1 1/2"
Standard workable length max	80 mm
Workable diameter min.-max	20 – 80 mm
Spindle joint	ISO 50 – HSK 63
Spindle power	14kW, 18.5kW
Operations units	4
Spindle rotation speed min.-max	20 – 2.000 rpm
Longitudinal axis length	"Z": 160 mm



4 operations units with vertical axis for printed and cut parts machining.

Machine productivity up to 900 pieces/hour.

Automatic numerical machine with high productivity, designed for the machining of small and medium pieces: bar diameter from 70 mm, finished piece length up to 120 mm. Excellent performance for all types of machining. It is able to perform tapping processes.



Some pieces produced

Sinico TAP 8200



General specifications

Machine weight	8700 Kg
General dimensions	2.560 x 4.100 x 3.200 mm
CNC	Fanuc
Components feeding	Anthropomorphic robot on request
Tapping dimension max	M36, G 2 1/4", NPT 3/4", BSF 1 1/2"
Standard workable length max	80 mm
Workable diameter min.-max	20 – 80 mm
Spindle joint	ISO 50 – HSK 63
Spindle power	14kW, 18.5kW
Operations units	8
Spindle rotation speed min.-max	20 – 2.000 rpm
Longitudinal axis length	"Z": 160 mm



8 operations units with vertical axis for printed and cut parts machining

Machine productivity up to 1000 pieces/hour.

Automatic numerical machine with high productivity, designed for the machining of small and medium pieces: bar diameter from 70 mm, finished piece length up to 120 mm. Excellent performance for all types of machining. It is able to perform tapping and boring processes.



Some pieces produced

Sinico TAP 6600



General specifications

Machine weight	20000 Kg
General dimensions	2.250 x 2.250 x 3.950 mm
CNC	Fanuc
Components feeding	Anthropomorphic robot on request
Tapping dimension max	6" NPSM, 3" NPT, M120, UNC 2 3/4"
Standard workable length max	150 mm
Workable diameter min.-max	20 – 200 mm
Spindle joint	HSK 80 – HSK 100
Spindle power	15kW, 22kW
Operations units	6
Spindle rotation speed min.-max	20 – 2.000 rpm
Longitudinal axis length	"Z": 160 mm



6 operations units with vertical axis for printed and cut parts machining.

Automatic numerical machine with high productivity, designed for the machining of small and medium pieces: bar diameter from 20 to 200 mm, finished piece length up to 150 mm. Excellent performance for all types of machining.



Some pieces produced





Caorle CMV 60



General specifications

Machine weight	6200 Kg
General dimensions [L x W x H]	4780 x 2355 x 2150 mm

Working range

Max workable length	1000 mm
Min. Length workable	50 mm
Min clamping diameter	10 mm
Max clamping diameter	100 mm
Min milling diameter	10 mm
Max milling diameter	80 mm
Max drilling diameter	20 mm
Max drilling depth	60 mm
Max tapping capacity	24 mm
Max tapping depth	60 mm
Spindle rotation speed min. - max	15 - 1500 rpm
Spindle power	5,5 - 11 kW
Spindle joint	HSK63 - ISO40
CNC	Fanuc - Siemens



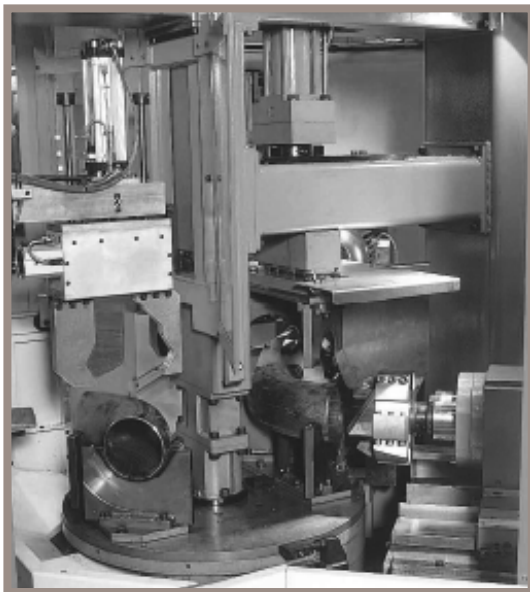
The center end milling machine model CMV60 is a machine designed and built in various models that enables the machining of the ends of bars, tubes, forgings and forgings by means of 2 opposing heads each having a maximum of 3 spindles:

1- a milling spindle 2- a centering/drilling spindle 3- a tapping spindle.



Some pieces produced

Caorle CL 90



General specifications

Machine weight	13700 Kg
General dimensions [L x W x H]	9000 x 3000 x 2500 mm
Number of tools	2

Working range

Ø Min. curve DIN2605	DN50 125
Ø Max. curve	DN200 R305
Nr. 2 spindles ISO 50	kW 15
CNC Longitudinal "Z" Axes	nr. 2

CNC machining center with 90-degree unit for curved pipework equipped with automatic system for loading/unloading the workpiece.

- one end-milling spindle
- one external chamfering spindle





Some pieces produced

Caorle MC 650



General specifications

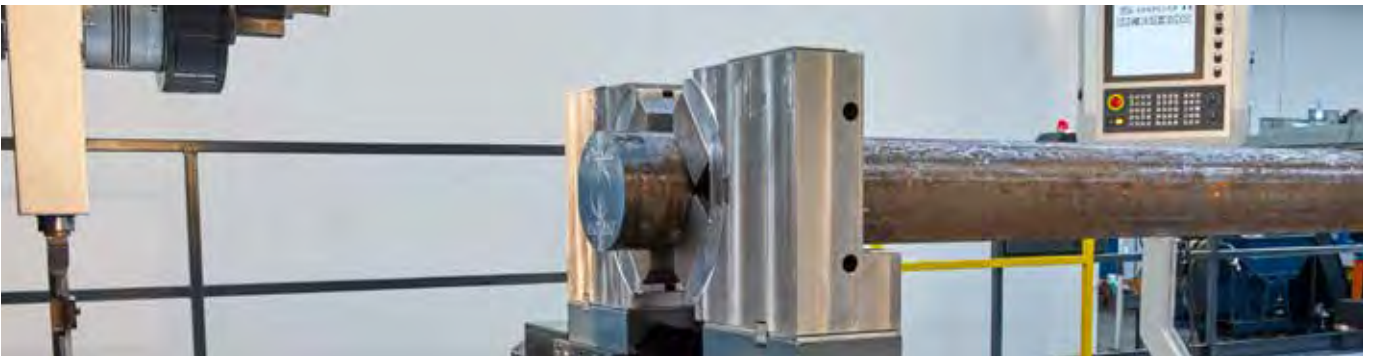
Machine weight	16000 Kg
General dimensions [L x W x H]	11500 x 4600 x 2900 mm
Tools	10 – 20

Working range

Travel of the transverse axis	“X”: 400 mm
Vertical axis travel	“Y”: 400 mm
Longitudinal axis length	“Z” 700mm
Spindle rotation range min.-max	100 – 5000 rpm
Spindle power	22 kW/30kW
Spindle joint	ISO 50 – HSK 100
Capacity lenght min-max:	1000 - 12000 mm
Workable diameter min-max:	20 – 330 mm
Tapping dimension max	M33
Number of tools	10 - 20
CNC	Fanuc - Siemens



Horizontal machining center for end machining, equipped with 2 opposing 3-axis operating units. CNC machine capable of performing end machining on tubes or bars simultaneously. Machine designed to be enslaved by automatic loading system. It is capable of performing the following operations: chamfering - facing - on-axis and off-axis deep drilling - threading - turning with static workpiece - boring - milling.



Details of the machine and machining

Caorle CL 151 U-Tronic



General specifications

Machine weight	6000 Kg
Tools	2
Dimensioni generali LxWxH	4453 x 3012 x 2881 mm

Working range

Longitudinal axis stroke	"Z" 380 mm
Longitudinal axis stroke	"U" 120 mm
Spindle power	22 KW
Min-max machining diameter	60 – 275 mm
Radial Head	Testa D'Andrea U Tronic 360
Working length min-max:	1000 - 12000 mm
CNC	Fanuc - Siemens



Machine for machining at the ends, equipped with bar loader/transfer device with pilgrim pitch for heavy bars. It is capable of performing operations of:
threading - tapping - boring - milling



Details of the machine and machining

Areas of application

- **End-workings of shaft for Electric motors and alternators**

- **Automotive (motors, axles, steering axis); parts obtained from:**

- Shaft from solid bar
- Crank shafts from press-forging
- Cam shafts (from bar or press-forging)
- Shafts for steering

- **End-workings for Railroad:**

- Axles from solid bars or press-forgings

- **Agricultural:**

- Different kinds of shafts both from bar and press-forgings (steering axis, gears shafts for tractors, combine-harvesters and their equipments....)

- **Pumps':**

- End working machining for pumps's components

- **Compressor:**

- Shafts and screws obtained from solid bar and press-forgings

- **Piping & Fittings field (oil & gas, foundations for houses....)**

- Pipes end-workings, threading for pipes and fittings coupling. Generally the products of this kind are completely finished on Caorle machine (different beveling and caulking for the following welding, end-threading, flanges machining and other).

Usually the machines are installed at the begin of the production line in order to grant the best partition of parts allowance, mostly for press-forging parts, and to determine the rotation axle. Sometime can be placed also at the end of the production line to perform proper phasing on crank shaft or similar with precise machining, following different customer's request.





SHIP PETROCHEMICAL



RAILWAY



AERONAUTICAL MINING



AUTOMOTIVE

Company strengths

- Reduction of production time.
- Remote assistance.
- Service with specialised technician.
- Optimised automatic operation.
- Geometric precision.
- Optimised cutting process.
- Quick tools.
- Easy to use.
- Quick installation.
- LAN connection.
- Self-diagnostics with integrated graphics.
- SPC installation option.





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