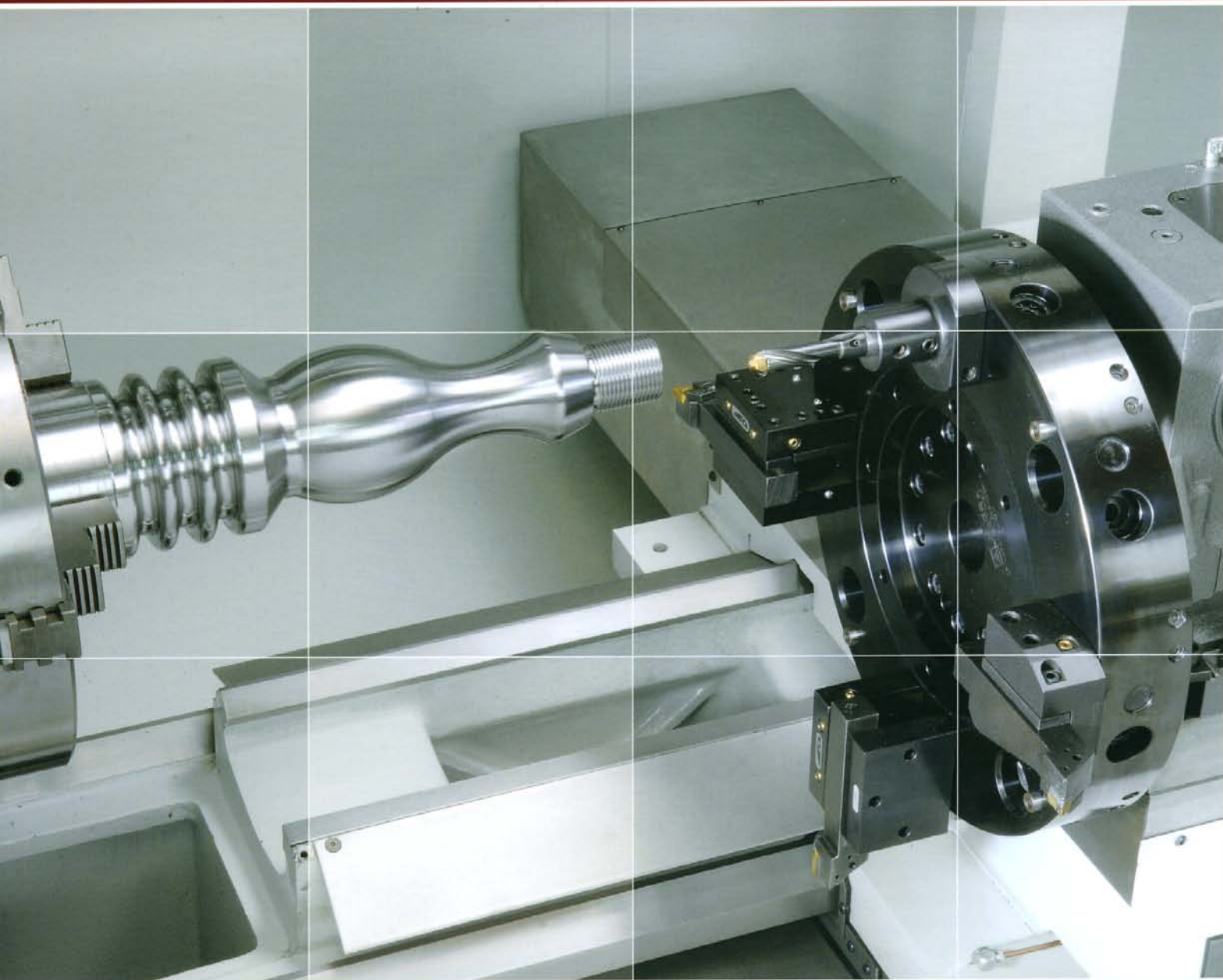


CNA

CNC TEACH-IN



ZANOLETTI

CNA

CNC TEACH-IN



The lathe of the series CNA with CNC Teach-in, comes out from a successful compromise which joins the handiness of a standard lathe to the potentiality of a CNC lathe. For this reason, it is the ideal machine for the customer who needs to conjugate the production demand, either of a single piece and of little and middle series, as well as the employment of workers not accustomed to use the CNC language of programming. This type of lathe can be used in 4 different ways:

- **traditional**, by using the wheels for axis Z and axis X;
- **teach-in**, producing, in a traditional way, a single piece, keeping in memory the measures and so to get automatically a reproducible programme;
- **teach-in**, starting from the drawing of the piece, following a driven program on video which uses prearranged cycles (roughing, finishing and taper turning, threading etc.) you make the working programme;
- **CNC**, using ISO programming like a proper CNC lathe.

Base

Footing is made in cast iron.
Bed in cast iron with 4 guides induction hardened and ground; the two outside for the chariot, the inside ones for rest and tailstock. The double prismatic guide grants the longitudinal saddle to move in a linear perfect way so to get the highest precision in machining. The bed has a gap deep 100 mm. That lets a bigger \varnothing rotating and an easy fixture of the machine.

Headstock

Body is realised in cast iron with high characteristics as to stiffness and vibrations damping.
Spindle in special Ni.Cr.Mo. steel, thermally treated, ground and assembled with taper roller bearings of high accuracy and for high rotation speeds. Spindle motor A.C. air-cooled. Change of speeds with two ranges selected in cycle.

Chariots

The chariots, longitudinal (Z-axis) and trasversal (X-axis) are made in cast iron, with guides induction hardened and ground. The against guides are covered with antifriction material.

Tailstock

Bed in cast iron. Spindle advancing, placement and locking by hands.

Rest

Steady, with pistons movement and blocking/ sblocking of the body manual.



OMG Zanoletti is known since sixties for high quality, precision and sturdiness of its products: center lathes of TP series, center lathes of CNC/self teach-in series, lathes CNC with slant bed. All the lathe OMG Zanoletti are **made and assembled inside the factory in Ponte Zanano (Brescia-Italy)** by a high specialised-labour hand by means of modern industrial methods, but with an artisan care.

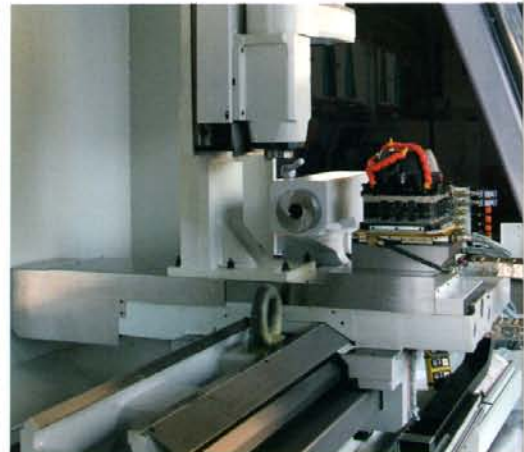
Steady rest



The external prismatic double guides for saddle displacement are protected



Hanging plugboard ergonomic (option)



Special device for milling and drilling with vertical axes



The lathe CNA is made with distance between centers up to 5000 mm and with eight of centres up to 1000 mm.

Horizontal axes turret with living tools



Standard equipment

- Coupling flange
- Spindle reducing brush
- Centre
- Steady rest
- Lubrication plant for guides and ball screws
- Lubrication for gears
- Chips basin
- Coolant plant
- Working area lamp
- Set of keys
- Handbook

Options

- Manual chuck
- Back chuck
- Hydraulic chuck
- Spindle locking
- Independent jaws chuck
- Manual turrets
- Vertical motorized with 4 positions
- Horizontal motorized turret with 8 positions
- Bigger spindle hole
- Tailstock with automatic spindle
- Rotating centre
- Follow rest
- Hydraulic steady rest
- Hydraulic plant
- Chip conveyor

Hydraulic plant (option)

Made with pump, accessories and modular valves of first quality marks grants the control of the oleodynamic devices on the machine: selfcenter chuck, tailstock, rest, lockings.

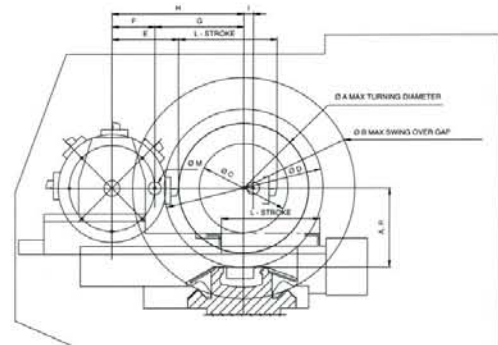
To exploit the machine as CNC lathes, it can be equipped with automatic devices, as turret with tool change, hydraulic chuck, chip conveyor.



Horizontal axis turret 8 stations full of the plate and with 8 toolholders

Working capacity (mm)

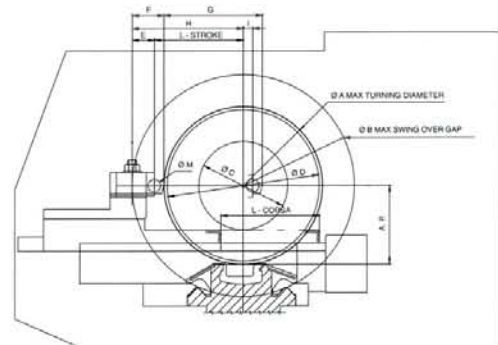
	CNA 250	CNA 300	CNA 350	CNA 400	CNA 500
A. P.	270	300	350	400	500
Ø A	480	530	540	800	850
Ø B	740	800	890	990	1190
Ø C	320	380	480	540	740
Ø D	540	600	700	800	1000
E	210	250	250	280	280
F	135	170	170	200	200
G	215	345	350	485	485
H	450	515	520	685	685
I	30	25	40	50	50
L	345	370	390	535	535
Ø M	40	40	50	50	50



Manual turret

Working capacity (mm)

	CNA 250	CNA 300	CNA 350	CNA 400	CNA 500
A. P.	270	300	350	400	500
Ø A	560	610	650	930	930
Ø B	740	800	890	990	1190
Ø C	320	380	480	540	740
Ø D	540	600	700	800	1000
E	90	115	125	125	125
F	115	90	112	112	112
G	345	350	333	485	485
H	395	440	440	597	597
I	40	20	40	50	50
L	345	370	390	535	535
Ø M	40	40	63	63	63



Technical data

		CNA 250	CNA 300	CNA 350	CNA 400	CNA 500
Height of centres	mm	270	300	350	400	500
Turning diameter over bed	mm	540	600	700	800	1000
Swing over gap	mm	740	800	890	990	1190
Swing over transversal saddle	mm	310	370	460	540	740
Width of bed	mm	400	400	440	500	500
Gap length in front spindle nose	mm	380	380	500	500	500
High speed range	rpm	0÷600+2000	0÷400+1800	0÷297+1600	0÷312+1400	0÷312+1400
Low speed range	rpm	0÷150+500	0÷100+450	0÷74+400	0÷78+354	0÷78+354
Spindle bore diameter	mm	72-102	102-132-152	102-132-152	102-132-152	102-132-152
Spindle nose CL/ASA	D1 inch	6"-8"	8"-11"	8"-11"	8"-11"	8"-11"
Tailstock spindle travel	mm	240	240	240	240	240
Tailstock spindle diameter	mm	80	100	125	125	125
Tailstock spindle C.M.	CM	5	5	5	6	6
Transversal saddle travel	mm	310	345	390	540	535
Fast displacements: Z/X axis	m/min	10	10	10	10	10
Main motor power	kW	11	18,5	22	22	22
Spread between centers	m	1,5-2-3	1,5-2-3	1,5-2-3-4-5	1,5-2-3-4-5	1,5-2-3-4-5
Net weight (as to spread between centers)	kg x 100	38-40-44	38-40-45	49-56-63-71-81	56-63-71-80-92	58-65-73-82-94

PRODUCTION RANGE

TP • Manual lathes



Height of centres: mm 250 - 300 - 350 - 400 - 500
 Distance between centres: mm 1500 - 2000 - 3000 - 4000 - 5000

CNA • CNC and self teach-in lathes



Height of centres: mm 250 - 300 - 350 - 400 - 500
 Distance between centres: mm 1500 - 2000 - 3000 - 4000 - 5000

CNC / CNC-H • Slant bed lathes



Height of centres: mm 300 - 350 - 400 - 450
 Distance between centres: mm 1000 - 1500 - 2000 - 3000 - 4000 - 5000
 Special machines for: valves, cylinders, industrial automation