



PIETRO CARNAGHI

AC 20 TM 1800

Stock no. :1022-2347

## MACHINE-DATA

Machinetype : CNC-Vertical Turret Lathe - Single Col.  
Make : PIETRO CARNAGHI  
Type : AC 20 TM 1800  
Year : 2009/2011  
Control type : CNC  
Control : SIEMENS 840 D  
Storage location : Hilden  
Origin : Italy  
Delivery time : Immediately  
Quotation : Ex warehouse, loaded on truck  
Price : on request



## TECHNICAL DATA

faceplate diameter	1800 mm
swing diameter	2000 mm
turning height	1270 / 1120 mm
Control	SIEMENS 840 D
workpiece weight max.	5000 kg
ram head dimension	250 x 250 mm
table turning speeds	1 - 320 U/min
cross rail - adjustment	400 mm
ram head - cross travel	(X) -2770 / +2275 mm
ram head - vertical travel	(Z) 1250 mm
c-axis	360° (0,001°) deg
milling drive	37 kW
turning speed range - milling	10 - 3000 U/min
power capacity - table	100 kW
Torque	31784 Nm
feed range	(X/Z) 0,1 - 15000 mm/min
weight of the machine ca.	55 t

## TECHNICAL DESCRIPTION

Technical details and information subject to amendments and errors.



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*Used CNC vertical lathe for turning, drilling and milling  
First machine installation in the year 2011.*

*Max. workpiece diameter: 2040 mm*

*Max. workpiece height: 1270 mm*

*Ram stroke: 1250 mm*

*Max. workpiece weight: 5000 kg (per pallet/chuck)*

*Table speed range: 1.0 - 320 rpm*

*Table drive motor: 100 kW*

*Drilling and milling spindle: 37 kW*

*Crossbar travel: 2 steps of 200 mm each*

*Total electrical connection value: 218 kVA*

*CNC control: Siemens 840 D*

*Number of NC axes: 4 (X, Z, C, crossbar adjustment)*

*Travels:*

*X-axis: -1650 to + 2165 mm*

*Z-axis: 1250 mm*

*Rapid traverse X- Z-axis: 15 m/min*

*Number of tool magazine spaces:*

*80 spaces in the chain magazine, of which 60 x HSK 100 and 20 x Capto C6*

*Disc magazine 12-pos. for rotary holders and attachment heads*

*Coolant system with filter and circulation unit*

*Chip conveyor*

*Oil-mist-extractor*

*1 pallet with jaws, diameter 1800 mm*

*1 hydraulic chuck with base jaws, diameter 1800 mm*

*Various drilling and milling heads*

*2 measuring probes*

*Several turning tool holders*

*Special feature:*

*Pallet changer with two stations, equipped with a face plate*

*Ø1800 mm and a six-jaw lever compensation chuck with mechanical  
centrifugal force compensation Ø1800 mm.*

*Note:*

*The machine is in a pit.*



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### Condition description:

*The cross roller bearing on the Carnaghi was replaced about half a year ago.  
The Siemens components in the control cabinet were also completely replaced at the end of 2023.*

*The machine also has a measuring probe for tool measurement  
and an external Renishaw measuring probe for workpiece measurement.  
As a special feature, the machine also has a measuring probe installed on the  
Z-axis*

*(Z1-axis). This brings an advantage in terms of accuracy and time, as the tool  
does not have to be put down for measuring. However, it is currently shut down  
and should be overhauled when it is put back into operation. The machine also  
has a Rotomors six-jaw lever compensating chuck with centrifugal force  
compensation, which was completely overhauled in 2020/21.*

## VIDEO-LINKS

Video No.1 : <https://www.youtube.com/embed/1vSReOQnsyY>

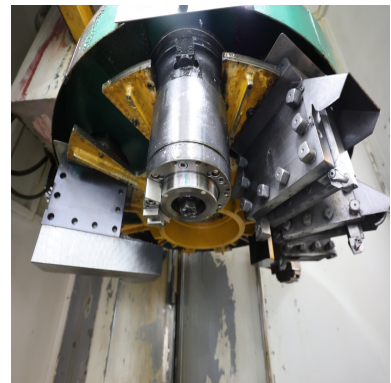
## WEB-LINK

<http://mhp.logotech.de/hpm/v7/Datenblatt/datenblatt.php?machineno=1022-2347>

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**Knops Werkzeugmaschinen GmbH & Co. KG**

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