

HE HITECH MILANO **EUROPE**

METALLOGRAPHIC SAMPLE PREPARATION



CUT OFF SAWS

400XL SERIES

CUT OFF SAWS C400XL SERIES

The C400XL represents the top of the Hitech Europe cut off saws models. Designed to satisfy each need, mounting wheel with diameter up to 450mm, it is able to be extremely versatile and suitable for any cutting need.

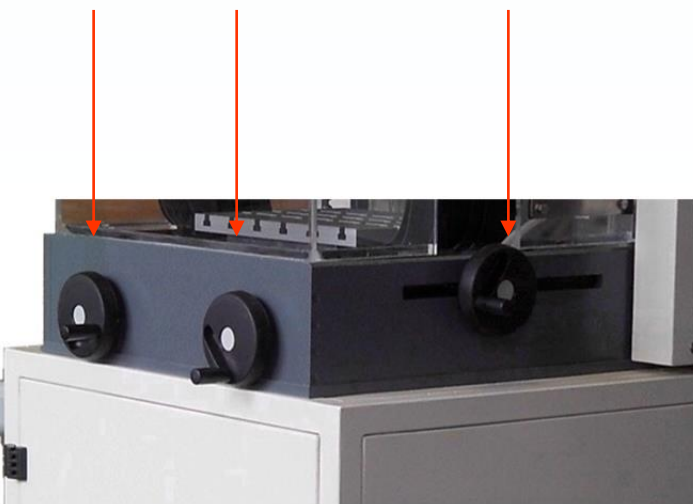
The combination between high technology and materials quality, guarantees an extremely efficient product, easy to use and great precision, which ensures a cut without any microstructural alterations.

This series offer various models, from the automatic to the manual versions, with movement of one or three axis, to satisfy each need. The transparent and shock absorbent cover, ensures the lighting of the pieces and a complete view of the cutting process.

The three free side offer a wide working area, and permit, also, to cut long bars, thanks to two rubber sealed side ports situated sideways to the machine.

Hand-wheels of regulation

Y Axis Z Axis X Axis



Axis movement

In the manual version, depending on the model, is possible manage the axis (X/Y/Z), using the hand-wheels placed on the basement of the machine. In the automatic version, instead, the movement of one or two axis can be setted directly by the touch screen panel (Y/Z axis: automatic movement settable; X axis: manual movement using the hand-wheel).

Touch Screen C400XL Automatic Version

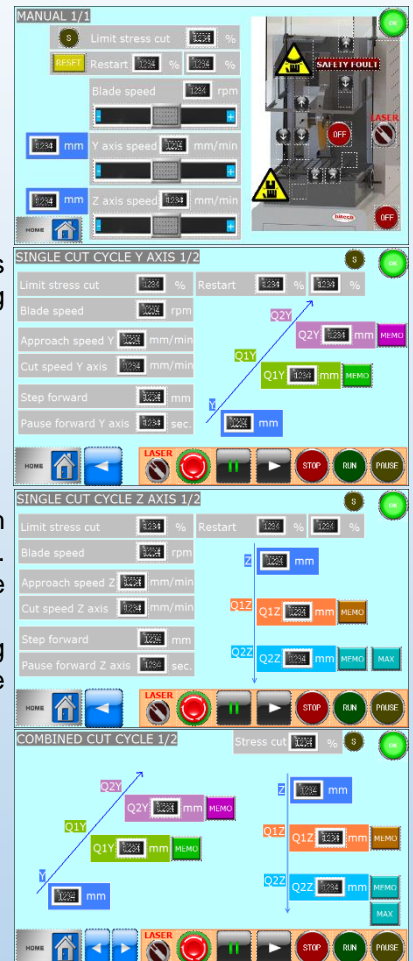
By the touch screen panel situated on the console, is possible set various parameters which permit to make the cutting so accurate and automatic, moving the Y and Z (depending on models) and, if routing cutting, save data for reuse.

Via touch screen, is possible determine:

- axis travel
- limit stress cut, when the axis stops to discharge and restart.
- speed rotation wheel
- the parameters to execute the pulsed cutting

The program, extremely direct and intuitive, allows the easy access to each setting parameters, making this machine suitable to satisfy all type of user need. The C400XL A2 model, allows to make a combined cutting, setting the parameters to the translation of Z and Y axis.

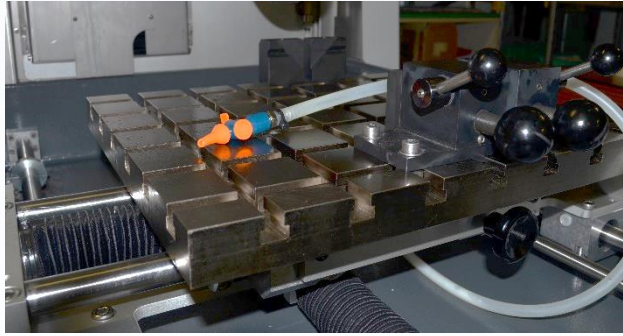
To input the parameters, it can use the numerical keypad which appears pushing the black rectangular where the numbers are shown, or, click «Memo», is set the current position of the axis.



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T-Slot fixed system

Table with T-Slot with chemical Nickel treated grooves (M8x12), where clamping vices are fixed, which allows the clamping of the workpiece to cut.



Cleaning system

At the ending of the cutting process, is necessary to clean the working area from material residues, using the flushing hose placed near the table with T-Slot.



Slide ports for long bars

The machine cover has two rubber sealed side ports situated sideways to the machine, in order to allow the cutting of long bars, which can be cut with ease. These side ports are designed to avoid the leakage of coolants.

Cooling System

Two nozzles are oriented on the grinding wheel to allow the cooling of the same and of the part during the step of cutting, through the leakage of coolant



Exhaust fan (option)

To make healthier the workplace, and to avoid prevent any fogging of the cover of the machine during the cutting operation, is possible apply the exhaust fan which absorb working vapors.

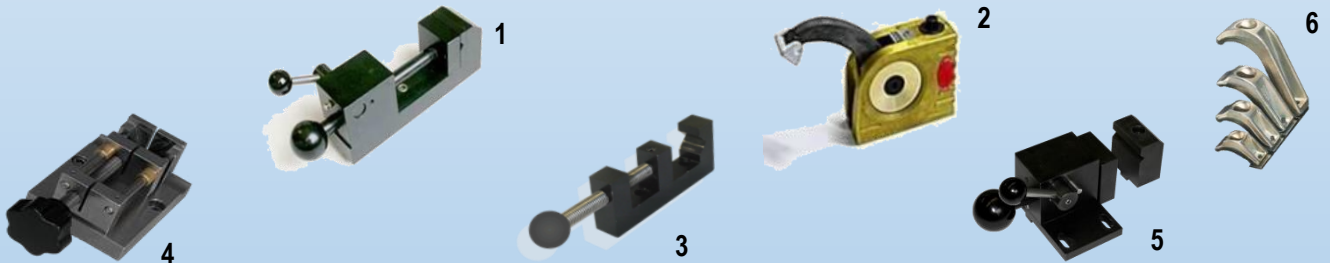
Coolant re-circulating system

The coolant re-circulating system, with pump and tank, is situated in the space below the car, ensure the intake of coolant during cutting, to cool the workpiece and the cutting wheel.



THE VICES

From the simplest one (the quick acting vice 1) to the special ones (Kopal 2 and Lenzkes 6) to offer a wide possibility of choice to the operator. Furthermore, the special vice for the double wheel system 3 for a double, simultaneous cut, and the V shaped vice 4 "bolt-cutter" for the "DUO"..



TECHNICAL FEATURES

MODEL	C400XL M	C400XLM3	C400XL A	C400XL A1	C400XL A2
Code	02-15-400M-C	02-15-400M3-C	02-15-400A-C	02-15-400A1-C	02-15-400A2-C
Structure in painted stainless steel and aluminum	Yes				
Cover in transparent shock resistant material	Yes				
Blade Ø400 mm cutting capacity 135 mm	Yes				
Blade Ø450 mm cutting capacity 160 mm	Optional				
Motor	7,5 Kw				
Blade speed (rpm)	1000 ~ 2500				
Variable speed motor with Inverter and acceleration and stop cutting wheel management	Yes				
Overload control	Yes				
Motorized movement on axis with brushless motor with variable speed and shearing stress control	No		Yes		
Translation on Z axis 310 mm	Manual (corsa 310mm)		Motorized (250 + 60 mm extra travel)		
Translation on Y axis 350 mm	No	Manual	No	Manual	Motorized
Translation on X axis 175 mm	No	Manual	No	Manual	
T-Slot fixed system with chemical Nickel treated grooves (M8x12) Dimensions 460x370mm	Yes				
Display the wheel and working table position with res. 0,1 mm on the axis Z/Y	No		Z	Z	Z/Y
PLC assisted motors for alarm signals and general function control	Yes				
Motorized opening cover with safety sensor	Yes				
Rubber sealed side ports in the two sides	Yes				
Supporting cabinet	Yes				
Orientable consolle	Low tension control panel		Touch Screen		
Cleaning system by air	Yes				
Coolant re-circulating system with pump, sump and sludge trap (capacity 150 lt)	Yes				
Presetting for exhaust fan	Yes				
Exhaust fan	Optional				
Power supply	400/440V – 50/60Hz				
Dimensions	1500 (with orientable consolle closed 1200 mm) x 1830 x 1370 mm				
Weight	600 Kg		620 Kg		630 Kg
Instruction manual – tool set – CE certificate	Yes				

tecmet 2000 supplies a wide range of high quality consumables for the preparation of metallographic samples:

- Abrasive cut off wheels
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- Mounting accessories
- Hot and cold mounting compounds
- Consumables for finishing
- Abrasive papers
- Self-adhesive diamond discs
- Abrasive suspensions
- Polishing products
- Polishing cloths
- Magnetic system



HE HITECH
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is product name of the metallographic instruments made in Italy by:

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