

Twist drill sharpening



Multi step drill sharpening



Countersink sharpening with 1-3 cutters



Tap sharpening with 2 to 12 cutters



Core sharpening with electric spindle



Multi step drill sharpening



Sharpening machines for twist drills and taps

APE 25

APE 40

APE 40 AUTOMATIC

APE 60

Using simple machine fixtures, Cuoghi sharpening machines sharpen twist drills with 40° to 180° tip angles, multi step drills, pilot bits, diamond drills, prismatic and self-centering drills, flat bits, center drills, countersinks, expanders and taps with 1 to 12 right and left cutting edges, as illustrated in a few examples.

Thanks to perfect tool sharpening, Cuoghi sharpening machines speed up drilling processes, increasing drill performance as well as achieving a more rational use of the drills and using the power installed in machine tools and CNC machining centers in the best possible way.

Cuoghi sharpening machines comprise a base, which supports a horizontal wheel-center electric spindle and a bit holding chuck.

The wheel center can move lengthwise (with decimal increases) and crosswise (with centesimal increases). Its rigid construction and resulting lack of play guarantee a high level of finish. The bit holding chuck moves the tools as needed for every kind of sharpening operation while the drill is firmly clamped by the self-centering six-jaw precision chuck.

Every model is equipped with a vertical wheel center electric spindle which can be positioned as needed and is mounted on a support so that the two grinding wheels are perfectly synchronized and able to thin out the central core of the drill and also sharpen diamond drills.

APE 40 Aut.



APE 40
APE 60



APE 25

Sharpening machine mod. APE 25

Technical specifications:

Sharpening diameter	from 1.5 to 25 mm
Right and left cutting edges	from 1 to 12
Drill angle	40°-180°
Horizontal wheel center electric spindle power	0.38 kW
Vertical wheel center electric spindle power	0.18 kW
Approximate weight	105 kg
Machine dimensions	740 x 680 x 1170 mm

Supplied Accessories:

Base, vertical electric spindle, halogen lamp, chuck, set of 4 cams for right hand tools with 1-2-3-4-6 cutting edges, grinding wheels.

Optional equipment:

diamond and CBN grinding wheels, water-cooling system.

Sharpening machine mod. APE 40

Technical specifications:

Sharpening diameter	from 2 to 40 mm
Right and left cutting edges	from 1 to 12
Drill angle	40°-180°
Horizontal wheel center electric spindle power	0.76 kW
Vertical wheel center electric spindle power	0.18 kW
Pump motor power	0.06 kW
Approximate weight	200 kg
Machine dimensions	1040 x 750 x 1250 mm

Supplied Accessories:

Base, vertical electric spindle, water cooling system, halogen lamp, chuck, set of 4 cams for right hand tools with 1-2-3-4-6 cutting edges, grinding wheels

Optional equipment:

diamond and CBN grinding wheels. An air-cooled and pneumatic suction cooling system can be supplied as an alternative to the water-cooling system

Sharpening machine mod. APE 40 Automatic

Technical specifications:

Sharpening diameter	from 2 to 40 mm
Right and left cutting edges	from 1 to 12
Drill angle	40°-180°
Toolholder head with automatic rotation	(increases in the manual mode)
Horizontal wheel center electric spindle power	0.76 kW
Vertical wheel center electric spindle power	0.18 kW
Pump motor power	0.06 kW
Approximate weight	220 kg
Machine dimensions	1040 x 750 x 1250 mm

Supplied Accessories:

Base, vertical electric spindle, water cooling system, halogen lamp, chuck, set of 4 cams for right hand tools with 1-2-3-4-6 cutting edges, grinding wheels

Optional equipment:

diamond and CBN grinding wheels. An air-cooled and pneumatic suction cooling system can be supplied as an alternative to the water-cooling system

Sharpening machine mod. APE 60

Technical specifications:

Sharpening diameter	from 3 to 60 mm
Right and left cutting edges	from 1 to 12
Drill angle	40°-180°
Horizontal wheel center electric spindle power	1.5 kW
Vertical wheel center electric spindle power	0.18 kW
Pump motor power	0.06 kW
Approximate weight	270 kg
Machine dimensions	1040 x 750 x 1250 mm

Supplied Accessories:

Base, vertical electric spindle, water cooling system, halogen lamp, chuck, set of 4 cams for right hand tools with 1-2-3-4-6 cutting edges, grinding wheels

Optional equipment:

diamond and CBN grinding wheels. An air-cooled and pneumatic suction cooling system can be supplied as an alternative to the water-cooling system.





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