

Technical Specification

Maximum Tool Diameter	160 mm
Maximum Tool Height	230 mm
Maximum Grind Per Grinding Cycle	0.99 mm
Air Pressure Supply	6 bar
Power Supply	AC 415 V 3 phase – 50 Hz / 3 x 16 A
Machine Dimensions	780x776x1910 mm
Approximate Net Weight	400 kg
Grinding Motor Power	2.2 kW
Wheel Rotation Speed	2800 rpm
Table Motor Power	0.18 kW
Table Rotation Speed	40 rpm
Coolant Pump Power	0.16 kW
Coolant Pump Water Flow	Max. 70 l/min

Machine and Accessories

Wilson X-Sharp Grinder	Cat No. 55106
Wilson X-Sharp Standard Chuck - Trumpf® Style Tooling	Cat No. 55107
Wilson X-Sharp Standard Chuck - Turret Style Tooling	Cat No. 55108
Wilson X-Sharp Shear Grinding Chuck (for Trumpf® and Turret Style Tooling)	Cat No. 55115
Wilson X-Sharp Grinding Wheel	Cat No. 55109



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Unique and innovative
 automated tool
 grinding machine





The Wilson X-Sharp grinder is an absolutely unique and innovative automated punch and die grinding machine, designed with the objective of simplifying the process of sharpening punch press tools.

Automated Tool Sharpening with the X-Sharp Grinder

5 steps to a sharper edge

- Step 1:** Load the tool into the chuck
- Step 2:** Set the tool size
- Step 3:** Dial in the amount to grind (in 0.01mm increments)
- Step 4:** Close the safety cover
- Step 5:** Press the start button to sharpen the tool



Features

Fully Automated Grinding Process

The regrind process on the X-Sharp is fully automated and can be operated by a user with no grinding experience. After mounting the tool in the chuck, the operator simply selects the tool size and how much to regrind, flicks the toggle switch to close the safety cover and then presses the start button. The operator is then free to return to other production tasks. When sharpening is complete, the machine returns to its original position and switches off.

Precision

The X-Sharp uses an AC-servomotor driving a precision gear and ball screw along with dual linear guides and four carriers to provide highly stable bearing properties. This ensures a high level of precision and an excellent quality of surface finish on your sharpened tools, thus ensuring the maximum return on your investment.

Automated Height Detection

The X-Sharp automatically measures the height of any tool mounted in the chuck before the grinding cycle begins. This also means that no manual adjustments are required to compensate for grinding wheel wear.

Shear Grinding

Punches with shears can also be sharpened using the X-Sharp shear grinding chuck.

Coolant

The X-Sharp is equipped with a powerful closed coolant system, ensuring the tool is constantly flooded with coolant during the grinding process. This prevents burning and surface cracking, improving the quality of the grind and helping to maximise your tool life by giving you a factory sharp edge every time.

Frame

The machine has a heavy-duty welded frame, stress relieved prior to machining. This gives the X-Sharp superior frame stability, a fundamental requirement for professional quality grinding.

Interlocking Safety Guard

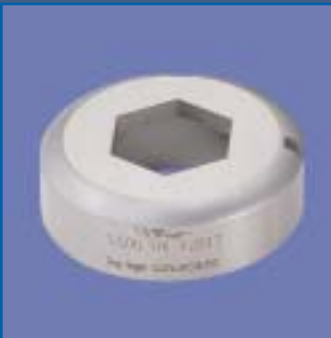
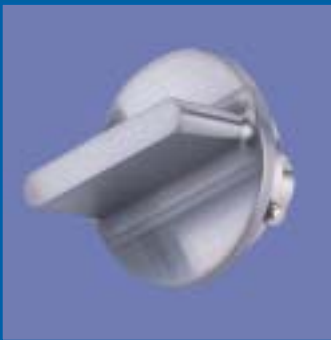
The X-Sharp is equipped with a pneumatic, interlocking safety guard that opens and closes with a toggle switch. The guard encloses the entire grinding area to protect the health and safety of the operator.

Grinding Space

With a unique design of safety guard, the grinding space on the X-Sharp is easily accessible from three sides. This makes the loading and unloading of tools quick and easy, and allows straightforward access for cleaning.

Footprint

The X-Sharp was designed with the smallest footprint in the industry, so the machine can easily be placed next to the punch press. With the automation features of the X-Sharp, the operator can continue to use the punch press while a tool is being sharpened.





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