

Winslow® 560

Tool Analyzer

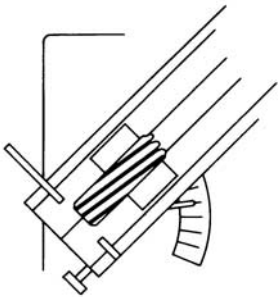


Winslow
Engineering Inc.

The Model 560

Meets the demands of SPC and tool management programs.

To remain competitive, today's manufacturer must concentrate on improving productivity. The use of statistical process control and tool management strategies are helping the progressive company realize this goal. Regular, accurate, efficient tool reconditioning is an integral part of these programs.



Unique swiveling vee block allows complete 3 dimensional tool inspection.

560 Analyzer

permits rapid, precision inspection of all tool geometry characteristics in the regrind department. The system uses a combination of angular measurement by optics with linear measurement by electronic digital readout. The 560's exclusive standard swiveling vee block allows viewing in a 90° arc. This provides a full 3 dimensional inspection without the expense of optional equipment.

1 New Horizontal Focal Movement

Controlled by tapped dovetail slides and ways, which eliminate side-play and allow for improved run-out, minimum bow and twist. Dovetail base and polymer pads give improved wear resistance, durability and accuracy.

2 New Vertical Movement

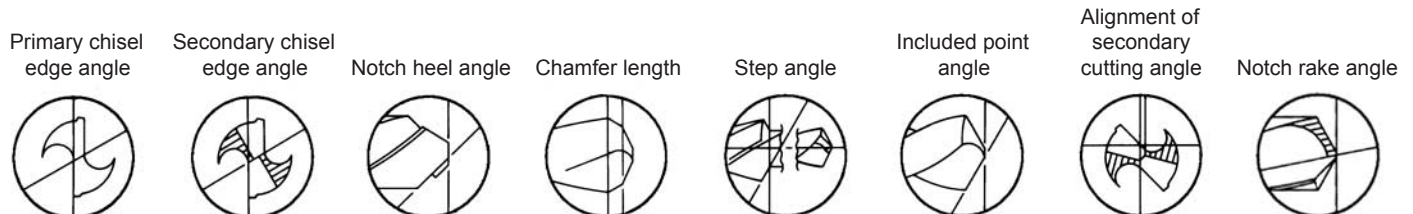
Controlled by cross-roller bearing and ways. Eliminates side play, lowers coefficient of friction, enabling repeatability of movement to be within .000020" per inch, with a total accumulation of less than .0002" per foot.

3 Horizontal Vernier Scale

Digital read-out vernier in .0005 resolution with SPC connecting port for data output.

Inspectable Characteristics

2, 3, or 4 flute; right-hand or left-hand helix; single or multiple diameter; subland or step drills and reamers.



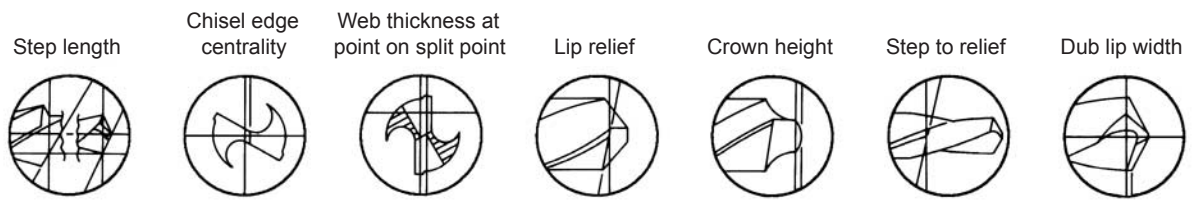
The above illustrations obtain a Gauge Repeatability and Reproducibility (G.R.R.) rating which is acceptable by automotive industry guidelines. (Illustrations shown as seen through eyepiece.)



Winslow Engineering Inc.

560 Tool Analyser

- 1 Horizontal focal movement
- 2 Vertical movement
- 3 Horizontal vernier scale
- 4 Back stop
- 5 Vee block
- 6 Vee block swivel indicator
- 7 Halogen lamp
- 8 Lens
- 9 Carriage
- 10 Microscope vertical adjustment
- 11 Carriage adjustment
- 12 Microscope focus adjustment
- 13 Microscope protractor
- 14 Eyepiece



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Winslow 560

Tool Analyzer

Technical Data

Tool diameter capacity —	
Base vee block:	2-7/16" to 2-1/2"
Mid-range vee block:	1-7/32" to 2-7/16"
Small vee block:	1/8" to 1-7/32"
Optional holder:	.010" to 1/8"
Vee block rotation:	90°
Unit specifications —	
Base dimension:	16" x 23"
Height:	13"
Weight:	62 lbs.
Color:	Laboratory white
Power input:	110V 6A
Lighting:	Halogen lamp 24V/20W

Optical Measuring System

Measuring travel —	
Horizontal:	5-3/8" (136.5mm)
Vertical:	1-3/4" (44.5mm)
Microscope:	360° angular scale Moveable hair line

Viewing area —	
6.5X lens:	1/2" field at 8-1/8"
20X lens:	13/64" field at 4-1/2"
36X lens:	3/32" field at 2-3/8"

Optional Components



36X lens



20X lens



Certified alignment bar



Triple nose turret



Small tool holder (for .010 to 1/8" diameter)

Retrofit package (for previous 550 model)—
New optics, horizontal and vertical
movements (*not shown*)
Dust cover (*not shown*)

Standard Components

Low voltage high intensity Halogen lamp
2 interchangeable vee blocks
Back stop with interchangeable male/
female centers
Front stop
Optical head with 6.5X magnification and
fixed hairline, moveable hair line with
360° angular scale
Horizontal electronic digital readout
vernier in .0005 resolution, with
connecting port for data output
Dust cover for entire unit
Rubber eye shield for lens protection

Warranty

6 months, parts and labor, under normal
working conditions.
Includes all components except lamp
bulb.
Covers workmanship and material
defects.

Winslow Engineering... for Every Drill Grinding Need

Model HC Drill Point Grinder

Extremely versatile, semi-automatic machine from 1/16" (1.55 mm) to 1-1/2" (38.0 mm) at a rate up to 100 per hour. Handles right-hand and left-hand drills, point angles from 60° to 160°. Capable of grinding conventional, Winslow-Helical, Racon®, Bickford Point®, four-facet and split points.



Model 520 Drill Point Splitter

Automatic wheel dressing and infeed cycle permits accurate splitting at a rate up to 350 per hour. Splits drills from 3/32" (2.4 mm) to 1/2" (12.5 mm); web thins drills from 5/16" (8.0 mm) to 3/4" (19.0 mm). Meets or exceeds all NAS 907 specifications.



Model 525 Drill Point Splitter

Automatic chucking and indexing of the drill permits precision splitting at up to a rate up to 400 per hour. Splits drills from 1/16" (1.55 mm) to 1" (25.5 mm); web thins drills from 1/8" (3.2 mm) to 1" (25.5 mm). Meets or exceeds all NAS 907 specifications.



Model 1000CC Automatic High Production

Automatic, hopper-feed machine is designed for drill manufacturers with production rates to 700 drills per hour. Handles jobber drills up to 6" (165 mm) long, from 3/64" (1.2 mm) to 1/2" (13.0 mm) point angles from 90° to 140°. Grinds conventional, Winslow-Helical and wide-web helical points.



Model HR Drill Point Grinder

Automatic cycle sharpens drills from 1/16" (1.55 mm) to 1-1/2" (38.0 mm) at a rate up to 120 per hour. Handles right-hand and left-hand drills, point angles from 60° to 160°. Generates conventional, Winslow-Helical, Racon®, Bickford Point® and split points.



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