Ziersch ZT 24

Ziersch ZT 24 surface grinder with Z Control system, built in 2015, in excellent condition
CE-compliant!!
The machine comes from the training workshop of a renowned German mechanical engineering company.

Technical Data:

Year of manufacture: 2015
Technical Specifications: Capacity & Dimensions
Grinding area: 400 × 250 mm
Max. distance from table to spindle center: 540 mm
Magnetic clamping plate size: 400 × 200 mm
Table load capacity (including magnet): max. 250 kg
Machine dimensions (L x W x H max.): approx. 3050 × 2050 × 2510 mm
Machine weight: approx. 2,800 kg
Travel Ranges & Feed Rates
Longitudinal movement (X-axis): 600 mm
Transverse movement (Z-axis): 220 mm
Longitudinal feed rate: 1,000 to 30,000 mm/min
Transverse feed rate: 0.01 to 2,000 mm/min
Vertical feed rate: 0.001 to 1,500 mm/min
Drive & Grinding Wheel
Grinding wheel dimensions: 250 × 50.8 × 38 mm
Grinding spindle motor power: 3.7 to 5.4 kW
Spindle motor speed range: 1,000 to 4,500 min^{-}

About the Machine:

We are offering a Ziersch ZT 24 surface grinder with Z Control system. This universal surface grinder is in very good original condition. It comes from a facility where it was used only sparingly for training purposes. The control system is very easy to operate. With a grinding travel of 600 mm along the longitudinal axis and a transverse travel of 220 mm, this machine is suited for applications in toolmaking, fixture construction, and small-batch production. This series is characterized by its extensive standard equipment and ease of use. The robust design of the spindle head and the guide system with double V-guides in both the longitudinal and transverse axes ensure long-term precision. The intuitive layout of the controls simplifies operation and significantly increases productivity. The guides are regularly lubricated by the central lubrication system. We have performed mechanical and electrical testing on the Ziersch. Take advantage of the opportunity to view and test the Ziersch on-site while it is powered on.

CONTROL SYSTEM
Easy-to-use Z-Control system with a high level of convenience; option for manual grinding with the door open; fully automatic grinding cycle with dressing cycles; grinding cycles: flat grinding, multiple plunge grinding, and groove grinding of up to 20 grooves
Grinding modes: roughing, finishing, and burn-in; dressing cycles divided into roughing and finishing; automatic vertical feed with compensation for the dressing amount; warm-up and night shutdown programs

OPERATION
Simple and intuitive operation via a large, clearly laid-out touchscreen
Electronic handwheel, effective on the Y and Z axes, switchable in two steps to 0.001 and 0.01 mm

CASTING/ENCLOSURE
Robust cast construction of all machine components; heavy machine weight for maximum rigidity; partial machine enclosure with sliding door and front-mounted service door; effective splash protection with good accessibility

LINEAR GUIDES
Preloaded linear guides on the Y and Z axes (Bosch Rexroth) for outstanding precision

SLIDE GUIDES
Excellent damping properties and high surface finish quality thanks to hand-scraped double-V slide guides on the X-axis

LUBRICATION SYSTEM
Automatic centralized lubrication on the X-axis (slideway oil) and on the Y- and Z-axes (grease)

DRIVES
Hydraulic table drive with cooling unit; electromechanical drive for the Y and Z axes

MEASURING SYSTEM
Precise positioning via a direct measuring system on the Y-axis (Heidenhain) and a rotary encoder

SPINDLE TECHNOLOGY
Grinding spindle disconnected from the motor via a coupling, thus preventing heat buildup. Continuously variable grinding spindle motor with constant cutting speed up to 35 m/s (optionally up to 50 m/s) across the entire working range of the grinding wheel (vconstant). Long service life thanks to a grinding spindle with 6 roller bearings, permanently grease-lubricated

MAGNETIC CLAMPING TECHNOLOGY
Heat-free electrically operated permanent magnet clamping plate, including stop strips on the rear and left sides of the magnet
Integrated polarity reverser with 16 holding force levels

COOLANT SYSTEM
Maintenance-free belt filter system with integrated trough flushing, including a cleaning gun with hose and an upstream magnetic separator for pre-filtration

You can find more surface grinders from renowned manufacturers on our website https://awm-gmbh.de/