

MÜHLBAUER'S INSPECTION SOLUTION

FOR ALL QUALITY ASPECTS OF YOUR COINAGE

Mühlbauer's inspection solution COIN INSPECT MINTED, which is suitable for newly minted coins and used coins, has been designed to cover coinage and color of coins in a high-speed double-sided inspection process.

Based on long-term experience, field proven methods and state-of-the-art technologies, COIN INSPECT MINTED offers the highest performance available on the market for a full-area, double-sided inspection of

- Disks, polygons, assembled/bi-metal
- Steel, copper, aluminum, nickel, brass, alloyed & coated coins
- Diameter 10.0 – 35.0 mm, thickness 0.8 – 4.0 mm, weight 1.5 – 30.0 gr.

at a throughput rate of max. 3,000 UPM in a three-shift-operation.

The smooth flow of coins on two lanes is maintained through the whole inspection process by the perfect interplay of feed, separation/alignment unit and transport incl. turning station. Due to the certified reject process, mixing of defective coins with good quality coins is absolutely excluded. COIN INSPECT MINTED generates a detailed job/batch report.

The machine configuration is especially designed for the specific requirements of coins and covers:

- Inspection of coinage
- Detection of rim defects
- Optional: color inspection

The windows-based inspection software has a well-structured graphical user interface and comes with a user administration for access control. The operator is granted easy access to all mechanical parts of the machine. The exchange of vision components has been simplified by a standardized cassette system. Maintenance and changeover are quick and easy.

We provide our customers with local support worldwide without any external partners.

ACCURACY



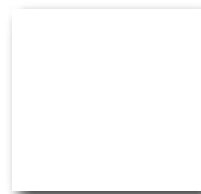
COINAGE

Resolution ratio:
0.030 - 0.035 mm/pixel



COLOR INSPECTION (OPTIONAL)

Resolution ratio:
0.030 - 0.035 mm/pixel



ANY OTHER REQUIREMENTS?

Feel free to ask for the COIN INSPECT BLANK or COIN INSPECT FLEX

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COIN INSPECT MINTED

INSPECTION SOLUTION FOR MINTED COINS









COIN INSPECT MINTED

THE INSPECTION SOLUTION FOR COINAGE & COLOR

Length of machine: 2,664 mm
Depth of machine: 700 mm
Max. depth with hopper & control cabinet: 2,086 mm
Height with closed doors: 1,910 mm



KEY MODULES

-  Coin feed & coin separation
-  Coin turning unit
-  Coinage inspection
-  High speed double lane coin transport
-  Coin sorting
-  Color inspection of minted coins (optional)



FEATURES & ADVANTAGES



CAPACITY

- Usable for new & used coins
- Up to 180,000 UPH; up to 3,000 UPM
- Coin diameter: 10.0 - 35.0 mm
- Coin thickness: 0.8 - 4.0 mm
- Coin weight: 1.5 - 30.0 gr.



COIN FEED

- Loading hopper capacity: 400 liters
- Vibrating extraction tray with guillotine door
- Continuous feed through additional container
- Output controlled by level sensors



COIN HANDLING

- Separation & alignment unit
- Recirculation of coin overflow to the hopper unit
- Two parallel transport lanes
- Smooth transport on seamless conveyer belts
- No coin jamming between belt & alignment rails
- Sensor system for continuous coin tracking
- Practice approved turning wheel for double-sided inspection
- Easy changeover to new coin type in less than two minutes



SORTING

- Up to 2 active eject channels per lane for detailed sorting (patent pending WO2018050427A1)
- One passive eject channel per lane
- 100% reliable sorting technology
- Good parts are actively removed from the belt
- Output channel as an open interface to local material transport



VISION

- Windows®-based operating system
- Straightforward GUI for easy operation
- Parameters can be copied to other inspection stations
- Different types of job / batch reports available
- User management with different user levels



CONFIGURATION

- Inspection units housed in standardized cassette system
- 4 inspection units for both lanes each
- Quick & easy upgrades, retooling & maintenance



INSPECTION OF COINAGE

- High-precision verification of coinage quality
- Detection of
 - » Rim defects
 - » Miss striking
 - » Die cracks
 - » Wrong intensity of coinage
- Bright, long-life, flashable LED dark-field lighting
- High-resolution monochrome matrix camera



COLOR INSPECTION FOR MINTED COINS (OPTIONAL)

- High-precision detection of color variations on minted coins
 - » Stains
 - » Dirt
 - » Corrosion
 - » and similar
- Bright, long-life, flashable LED dome lighting
- High-resolution color matrix camera

YOU NEED MORE?

REQUEST INFORMATION ON



COIN INSPECT BLANK

The inspection solution for blanks



COIN INSPECT FLEX

The configurable inspection solution for all quality aspects of your coin

