

M.A.R.T.Y. - ECONOMA'S PRECIOUS METAL RECOVERY SYSTEM

Combining decades of experience in automation ECONOMA is closely working with leading Mints to provide high tec solutions for modern minting. ECONOMA has designed and manufactured ultra high precision machines that check the weight of blanks and analyse the exact amount of give away material with 3D visualization. Removement and collection of this material and a final weight check guarantees the correct weight of each blank.

HOW M.A.R.T.Y. WORKS

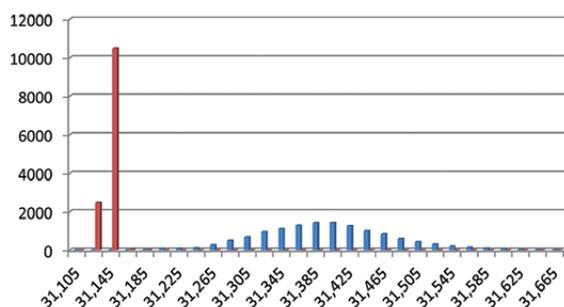


The mechanical process is designed to physically remove the excess material determined by an accurate high precision weight scale and a 3D laser scan of the profile. It is using the most recent technology for the shaving process and for communication purposes with 100 % data collection. All this at a speed of up to 35 blanks/min!

M.A.R.T.Y. significantly reduces the amount of give away. This new technology lowers costs of producing blanks by drastically reducing the number of rejects (throughput) because most overweight blanks become good blanks.

Dimensions of machine:
1590 x 1590 x 2100 mm.
CE and CSA certified.

DISTRIBUTION OF BLANK WEIGHT



Blue: standard deviation without MA.R.T.Y.

Red: standard deviation using M.A.R.T.Y. with a target of 31,135 mg



Even though M.A.R.T.Y. is a high speed process, all blanks are manipulated with caution to leave no marks.



TECHNOLOGY

To ensure that every blank released into the „good“ box has its correct weight a precision scale (+/- 15 mg range) is used. To avoid any drift during production a „zero check“ is performed after each weight check.

From feeding to picking and placing all handling of blanks is fully automatic



OPERATION MODE / HMI

State of the art flexible 19-inch HMI touch screen operator interface. A user friendly graphic surface shows the status and condition of the system and is used to communicate with the machine. For maintenance every sequence can also be performed in jog mode. Checks and logic are integrated to ensure no underweight coin could ever pass as good. A complete overview of numbers is available in statistics such as xls and ready for export. Machine can be fully embedded in production data systems.



Pure gold (or other precious metals) ready for the furnace without any contamination

BENEFIT

M.A.R.T.Y. reduces significantly the amount of give away. This new technology lowers costs of producing blanks by drastically reducing the number of rejects (throughput) because most overweight blanks become good blanks. It replaces the manual or automatic check weight operation ensuring that all products going through the process are never under the specified weight. M.A.R.T.Y. eliminates the need to acquire new equipment with more precise rolling/processing capabilities.

ABOUT ECONOMA

Combining 35 years of experience in automation ECONOMA is closely working with leading Mints to provide high tech solutions for modern minting. As a highly skilled special machinery manufacturer and integrator we use and develop the necessary technologies to satisfy these high requirements for measurement, production, and handling processes with much commitment and passion. No matter on which continent or in which sector our customers are, we deliver highest quality "made in Austria"!

ECONOMA is

- Automation Specialist
- Equipment Manufacturer
- Process Developer
- Machine Designer
- Integrator

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