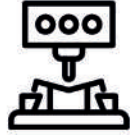


AUTOMATIC CASTING MACHINE



Description of the Invention

The invention is a tilting-type automatic casting machine designed to safely pour high-temperature fluid materials into molds used in industrial production.



Applicant

EDM Yazılım Teknoloji Ltd. Şti.



Inventor

Serap Yasemin Arslan

Country/Region

Application Number

Status

Türkiye

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Searching

Benefits

- It ensures the precise and rapid adjustment of the pot's tilting position using servo drive units, allowing for the homogeneous pouring of fluid materials into molds.
- It reduces waste and enhances workplace safety by preventing splashing of molten material during casting.
- Additionally, it provides the ability to monitor casting quantity, the amount of metal remaining in the pot, mold opening, access to historical casting data, and reporting capabilities.

Areas of Use

The invention is a machine suitable for use in industrial production lines and foundries engaged in casting and molding processes.



Market Information

The global industrial machinery market size is known to be USD 682.7 billion in 2022.

The metal casting market is projected to grow to \$119.24 billion by 2028, with a CAGR of 19.14% from 2021. The Asia-Pacific region and China are leading areas in this sector.

Target Audience

Companies operating in the iron casting sector under the specified NACE codes can be identified as the target audience.



Nace Code

Activity Definition

24.51.13

Iron casting (casting of semi-finished iron products, gray iron casting, ductile iron casting, malleable cast iron product casting, manufacturing of tubes, pipes, and hollow profiles from cast iron, and the production of cast iron tubes, pipes, and their fittings)

Commercialization Expectation

The goal is to transfer technology to target companies through patent licensing or assignment. This technology transfer will be supported by industry-industry collaboration projects. Due to the innovation being a patent, it qualifies for TÜBİTAK 1702 Patent-Based Technology Transfer Support Program during the positive review process. Since EDM Technology is a company engaged in the production and sale of the patented invention, sublicensing will positively impact its competitive advantage.

Contact

+90 212 691 60 01
kulucka@entertech.com.tr

