

Electric Motors and Drives for Heavy Industry - TECO Electric Motors Australia and New Zealand

Canonical: <https://electricmotors.teco.com.au/industry/heavy-industry/>

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Foundries

Electric Motors, motor monitoring and Variable Speed Drives in Foundries

Contact US Metal Casting Precision

Foundries grapple with the challenge of achieving precise metal casting due to the inherent variability in speeds and torque during the process. This inconsistency often leads to casting defects, impacting the overall quality of the output.

TECO Electric Motors and Variable Speed Drives provide a precise control mechanism, effectively mitigating the pain points associated with variable speeds. By ensuring a stable and controlled casting environment, TECO empowers foundries to significantly reduce defects and elevate the overall quality of metal casting.

TECO offers a range of rugged and easy to maintain squirrel cage motors, some of the most efficient available in the market today. Maintenance requirements are reduced because of clever, patented designs that include Class H insulation options able to withstand additional ambient heat and live greasing paths – greasing is completed whilst the motor is running or hot. This makes for a very simple process to see when the motor is fully greased. TECO motors with this design cannot be over greased and it is clear to operators when all the old grease is fully purged.

Energy Efficiency in Melting Furnaces

Melting processes in foundries are notorious for their energy-intensive nature, resulting in elevated operational costs and a heightened environmental impact. Foundries are keen to address these challenges and seek solutions to enhance energy efficiency without compromising productivity.

TECO Variable Speed Drives in both LV and MV versions are engineered to optimise furnace operations, directly addressing energy efficiency in melting processes. By precisely controlling the speed and power consumption, TECO's solutions contribute to substantial energy savings, allowing foundries to operate more sustainably while maintaining peak productivity.

Reliable Core Production

Foundries often grapple with the inconsistency in speeds and frequent breakdowns, leading to disruptions in the production of high-quality cores. The need for reliable and stable performance is paramount in ensuring seamless core production.

TECO Electric Motors are the solution to the reliability challenge in core production. Engineered for stability and durability, our motors provide a consistent and reliable performance, minimising downtime and ensuring a streamlined core production process.

Mold Handling Precision

Precision is paramount in mold handling, and deviations can lead to defective castings and increased rework. Foundries seek solutions that can guarantee accurate mold handling to minimise errors and enhance operational efficiency.

TECO's variable speed drives are meticulously designed for precision control, specifically addressing the pain points related to mold handling. By ensuring accuracy in this critical aspect of the foundry process, TECO's solutions empower foundries to reduce errors, enhance overall efficiency, and deliver consistently high-quality castings.

Dust and Debris Mitigation

The generation of dust and debris during foundry operations poses a significant challenge, affecting equipment longevity and reliability. Foundries need robust solutions that can withstand harsh environments and provide enhanced protection against dust and debris.

TECO Electric Motors are engineered to thrive in challenging environments. With a focus on robustness and enhanced protection, our motors stand up to the rigors of foundry operations, ensuring longevity and reliability by mitigating the impact of dust and debris. This contributes to a more sustainable and reliable foundry operation.

TECO Offers motors and Variable Speed Drives with up to IP 66 dust and moisture ingress protection. These standard products will assist with not only controlling product and process but also keeping maintenance to minimum and assuring plant managers of reliability.

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