SGM
TECHNOLOGY AND PROXIMITY

ELECTRO PERMANENT MAGNETS

Rails

Absolute safety as the lifting power of the SGM electro permanent magnets is autonomous

SOME REFERENCES

corus
ArcelorMittal
BRITISH STEEL
thyssenkrupp
VÍTKOVICE STEEL
DANIELI
iteco steel
MORIS
Steel Dynamics, Inc.

Rails

SAFETY

The lifting force of the Electro-permanent magnets is independet from external energy sources = no accidental drops of the load as a result of power failure or cable interruption.
The lifting force of the Electro-permanent magnets is constant in time = no accidental drops of the load as a result of a reduction on magnet lifting force.
No need for operator to get in contact with the rail(s), cross and stay by them or on the rail wagon. Magnet system is operated from a safe distance using radio control. No need for clamps.
Technology of the electro-permanent magnet controllers facilitates the creation of safety redundancy.
Special recommendations for the use of electro-permanent magnets is made for locations where sudden interruptions of main electrical power may happen inadvertently.

PRODUCTIVITY

Anylength ofrail will be released from the electropermanent magnet(s) in just 3 seconds.
No limit in length of rail which can be handled.
Unlike electro-magnets, electro-permanent magnets do not generate heat when energized which means that they do not impose limitations on duty cycle.

USER FRIENDLY

Operation is typically through radio control.
Simplicity in pre-selecting the required quantity of electro-permanent magnets to be used on any given length of rail.
Unlike electro-magnets, the level of residual magnetism left in the rail(s) is irrelevant for subsequent processes (welding).
The electronic controllers for electro-permanent magnets are technologically less sophisticated than the ones for electro-magnets.
This, combined with the fact that unlike electro-magnets, electro-permanents magnets do not generate heat when energised, makes the electro-permanent magnet technology easier to maintain.
No need for battery back-up.