

## ELECTRO PERMANENT MAGNETS

# Billets



### SOME REFERENCES



## Billets



### SAFETY

The lifting force of the Electro-permanent magnets is independent 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 or stay by the billets. Magnet system can be operated from a safe distance using radio control or the control system. No need for slings or 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

Just a few seconds are necessary to grip and release a layer of billets. Wooden spacers between layers of billets are no longer necessary.

### USER FRIENDLY

Operation is typically through radio control.

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-permanent magnets do not generate heat when energised, makes the electro-permanent magnet technology easier to maintain.

No need for battery back-up.

### NOTICE

Electro-permanent magnets can only apply to applications with limitations on billet temperatures.

