

Electro lifting magnet to lift Bundles of Rolled Structural Section [Flat Bar, Angles, Channel, Beams] and Rebar.

**Maximize productivity whilst meeting
highest safety standards.**

**Hundreds of
magnets supplied
worldwide**

Important references

ABS - Danieli Group (Italy), AFV - Beltrame Group (Italy), Celsa (Poland), Bushan Steel (India), Shiuwing Steel (China), Deacero (Mexico), Villacero (Mexico), etc.

Safety

- With respect to the use of slings and chains, the handling of bundles with electro-magnets is a lot faster and can be carried out by a single operator from the crane cabin or by remote control.

- Unlike with slings and chains for which verification of wear is down to operators, magnet systems require little maintenance with the relative electronic controller continually monitoring the internal temperature of the magnets



and the efficiency of the battery back-up system.

- No need for spacers between bundle layers resulting in no need for operator intervention and a faster operating cycle.

Productivity: Move and store more in less space



- The use of magnets allows for the easy storage of bundles in tidy stacks with no limit in man height or truck height and no need for walkways between stacks. The result is better use of customer's storage volume.



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Productivity: Move more in less time

- Given that all the handling operations are carried out from the crane cabin or from the ground by remote control, the speed of the handling operations (magnet bundle picking and releasing times) is much faster than when operators use slings or chains.



- A lorry can be loaded in 5 - 15 minutes (depending on distance).

In 2007, AFV Beltrame (Italy) reached a record of loading 186 lorries in 16 hours by using electro-magnets. Each lorry carried 30 tons of bundles.

- Magnet solutions are available for the handling of one bundle at a time up to as many as 5 or 6 bundles.

User friendly

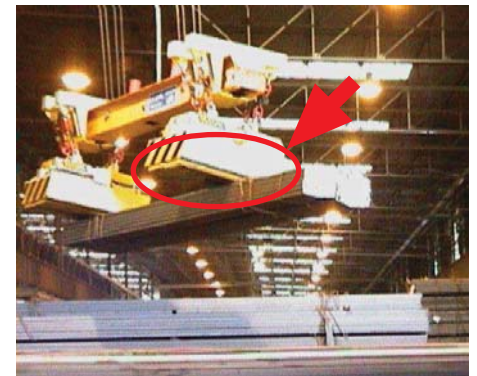
- SGM offers magnet spreader beams designed to make its magnetic systems extremely universal. Extensible spreader beam solutions allow the handling of bundles of 6 metres to those of 12 or 18 metres in length with minimum footprint. This results in easier manoeuvres by the operator, particularly when loading/unloading lorries.



- For cases where the range of loads to be handled is extensive to the point that it is necessary to dispose of two different magnetic systems, SGM has developed solutions where the crane operator can change spreader beams with an automatic beam changing facility.

- In order to facilitate the handling of a limited quantity of bundles with respect to the

maximum capacity, the SGM magnet control systems are provided with partial bundle quantity release options.



At AFV Beltrame a short beam with no. 2 electro-magnets is used for handling bundles up to 6 metres in length whereas a long beam with no. 4 electro-magnets is used for handling bundles up to 14 metres in length.



Designed and manufactured according to European standards EN 13155.