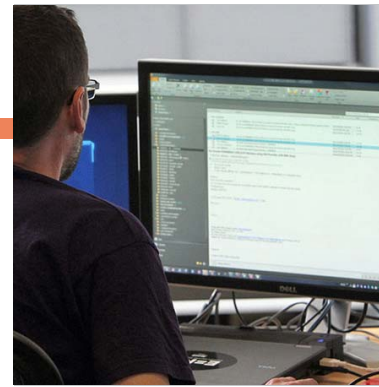




MAGNETIC LIFTING



RECOGNIZED KNOW-HOW

The quality of our production has been guaranteed by the long service life of our products which assures of minimal maintenance. In terms of productivity and safety our proven methodology will more than meet your expectations. Our know-how in the fields of industrial magnetism, linked to our values of service and quality leads to the recognized performance of all Andrin products.

QUALITY REFERENCES

Our personal commitment is based on our know-how, our idea of service, our technology, and our compliance with deadlines and budgets. Our production favours your productivity, safety and reliability requirements. We analyze and implement all our activities in compliance with your constraints. The following companies place their confidence in us:

Steelwork, Rolling Mill

Arbed Saarstahl
Arcelor Mittal
China Steel
Dillinger Hütte
Dragon Steel
Icdas
Kroman
Kuey Steel
Magnitogorsk
Posco
Rivagroup
Severstal
Sonasid
Tata Steel
Thyssenkrupp
Vallourec
Voest Alpine

Engineering

Alfyma
Cmi
Danieli

Hoffman
Hyundai
Metso Lindemann
Metso Mineral
Sandvik
Voest Alpine
Vauché
Venti Oelde

Recycling

Decons
Derichebourg
Gde Environnement
Harsco
Heilig-Teigen
HKS
Normet
Retem
Scholtz
Thyssenkrupp
TSR
Yamanaka

Environment

Cnim
EDF Tiru
Plastic Omnium
Sita-Suez
Veolia
Vinci

Material Handling

Case
Caterpillar
Fuchs
Hyundai
Liebherr
Sennebogen
TP Partners

Mines & quarries, Foundry, cement plants

Calcia
Lafarge
Montupet
SLN



AN IDEA OF SERVICE

Our specialist multidisciplinary teams are equipped with technological resources suited to best meet your requirements. The results we have obtained guarantee our reputation. Our everyday ambition : to know you, listen to you, understand you, anticipate your needs, be at your service, and satisfy you, our valued customers.

APPLIED ENGINEERING

We are in a position to get you to take advantage of our capacity for technical appraisal and advice, with a good grip on your company's practical problems. Our design office has skills in metal, mechanical, electrical construction and automatic control and is able to make recommendations, design and assemble, build and provide operating follow-up.

Experience, acquired in a manufacturing world of high quality assurance constraints, guarantees the output and reliability of **Andrin** equipment. We provide you with an optimal service, capable of meeting all your requirements and expectations in magnetic handling plant. During the design, manufacture, assembly and commissioning for use, we are with you at each stage of developing a plant, Our engineers and technicians also make visits to improve your existing plants, define the required investments with you, and recommend cost effective solutions.

We provide after-sales service all makes and types of devices.





MAGNETIC LIFTING

Andrin is earning itself a solid international reputation in the magnetic lifting field thanks to its experience and numerous industrial references. In this way Andrin has become synonymous with efficiency, reliability and safety.



PROCESS CONTROL

The performance of our magnets depends on the control of numerous parameters: product type, weight, size, temperature, handling constraints (clearance, shapes and sizes etc.), surroundings etc. Our know-how guarantees grabbing reliability and the safety of staff and plant. Our **standard or patented technologies**, our on-going research, production independence and above all our feedback enable us to design and guarantee turnkey plants. We guide and carry out total production of lifting magnets, as well as all fittings required for operating them: electrical supply cabinets, control and safety cabinets, lifting beams, reels etc.

We commission as well as maintain our equipment on site.



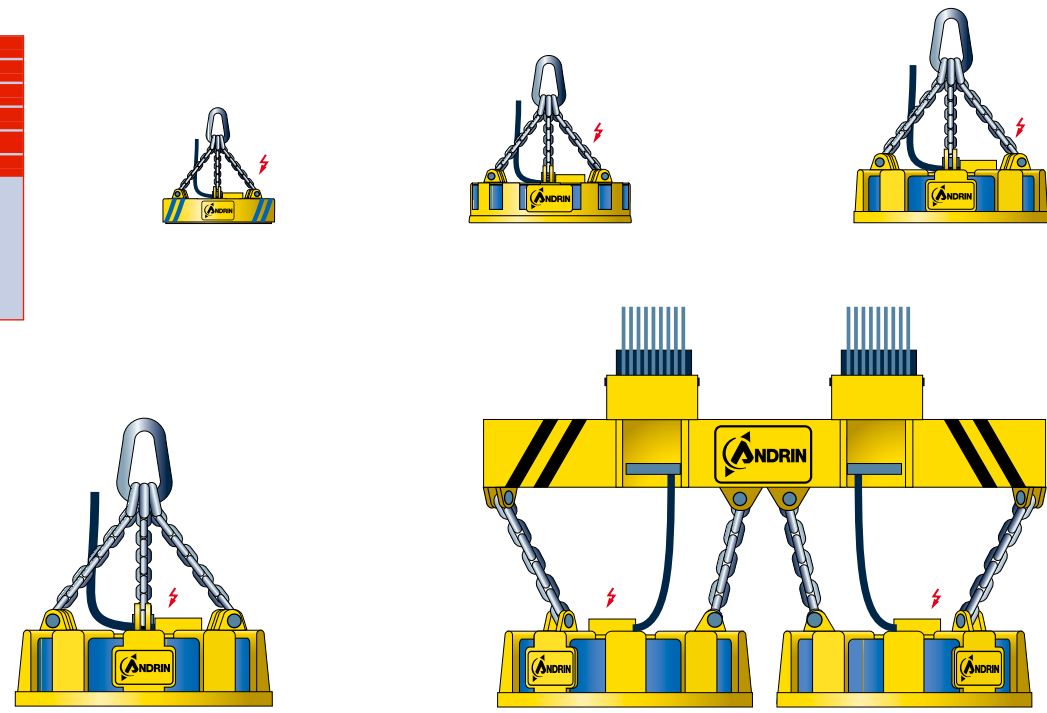
Why lift with magnets ?

Magnetic lifting equipment is very easy to use and has numerous outstanding aces. Bulk products or iron and steel products, during production or finished, are magnetically handled with no downtime, no people involved and no slings. Grabbing accuracy, metering, selectivity and thinning out precision allow automatic handling control and all this in total safety. It is also possible to make gains in storage area. Moreover Andrin lifting magnets work in surroundings with very high load constraints capable of reaching temperatures of 650 C°.

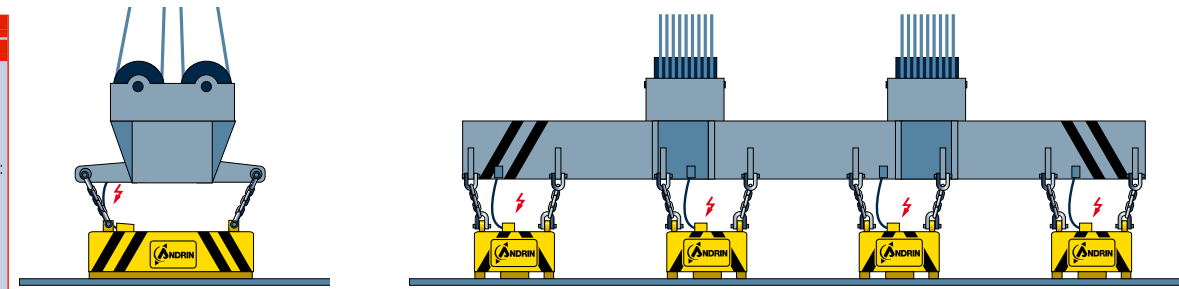


CSA • CGMA R • CMPAF • CHPAF

- Hydraulic crane
- Cable crane
- Gantry crane
- Travelling crane
- Derrick
- Lift truck
- Light scrap
- Medium scrap
- Heavy scrap
- Foundry jets
- Balls



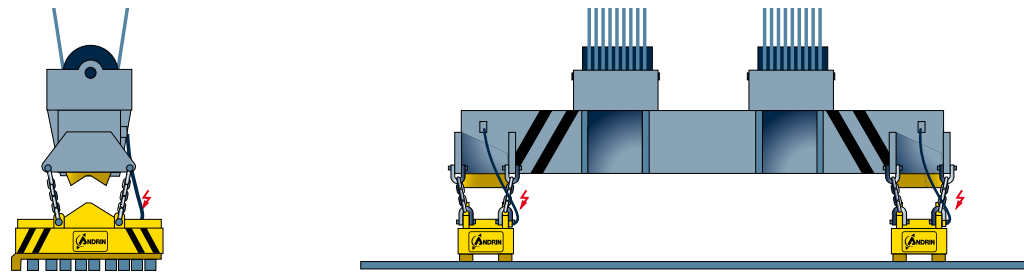
- Travelling crane
- Gantry crane
- Slabs
- Medium and heavy sheets
- Lashed bundles with vertical web plates of:
 - Beam blanks
 - HEA, HEB
 - UPN, UAP
- Lashed bundles of market sections
- Boxes of wires



RTA

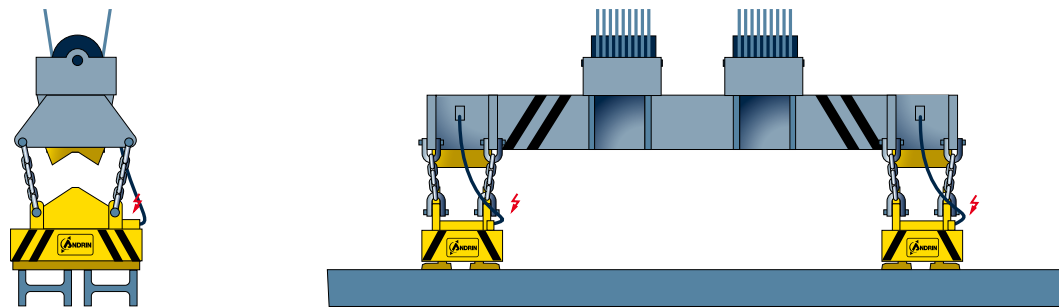
FCSA

- Travelling crane
- Gantry crane
- Bundles of billets
- Bundles of rough rolled ingots
- Bundles of bars
- Bundles of pipes



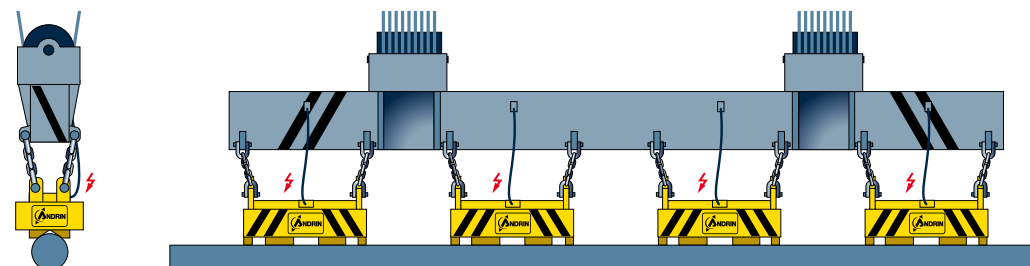
FCDA

- Travelling crane
- Gantry crane
- Bundles lined up with horizontal web plates of:
 - Beam blanks
 - HEA, HEB
 - UPN, UAP
- Bundles of lashed sheet piles



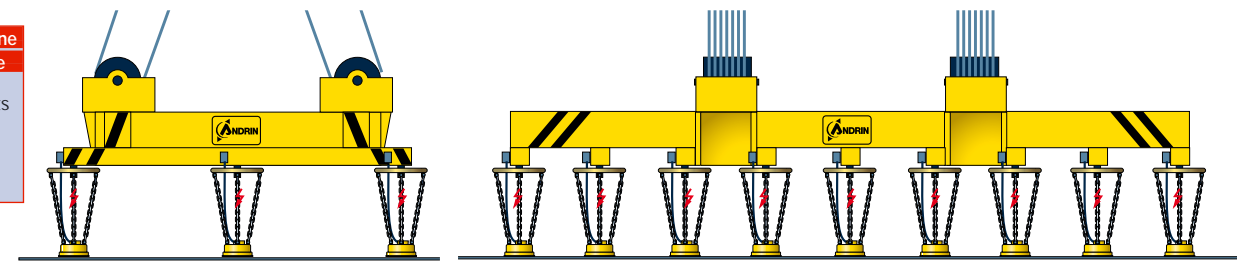
FCDAD

- Travelling crane
- Gantry crane
- Individually:
 - Bundles of reinforcing bars
 - Bars
 - Rough rolled ingots
 - Pipes
 - Sections
 - Sheet piles
 - Ingots



VM

- Travelling crane
- Gantry crane
- Thin and medium sheets
- Loading and unloading of flame cutting equipment



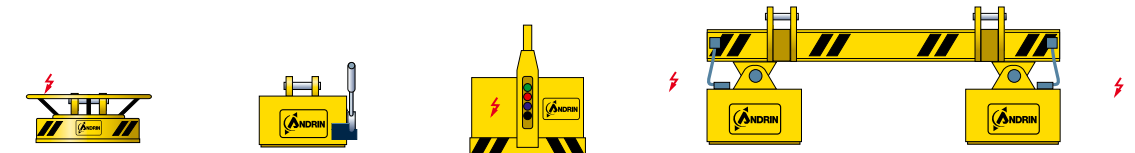
VM

FCPM

RTB

FCEP

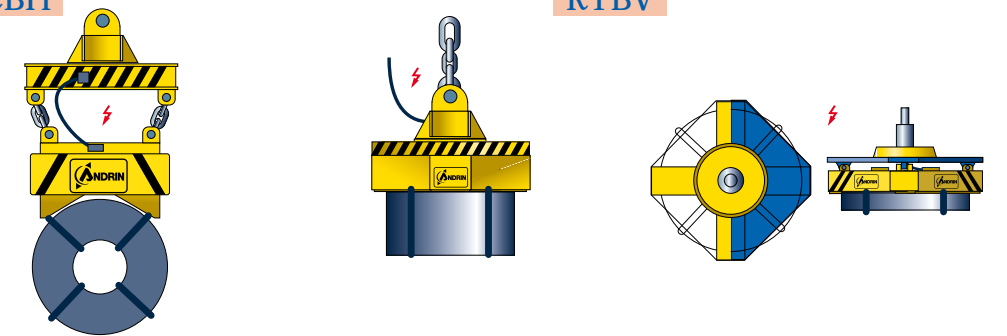
- Derrick
- Lifter
- Lift truck
- Individual items
- Loading machine tools
- Loading machining centres
- Handling covers



FCBH

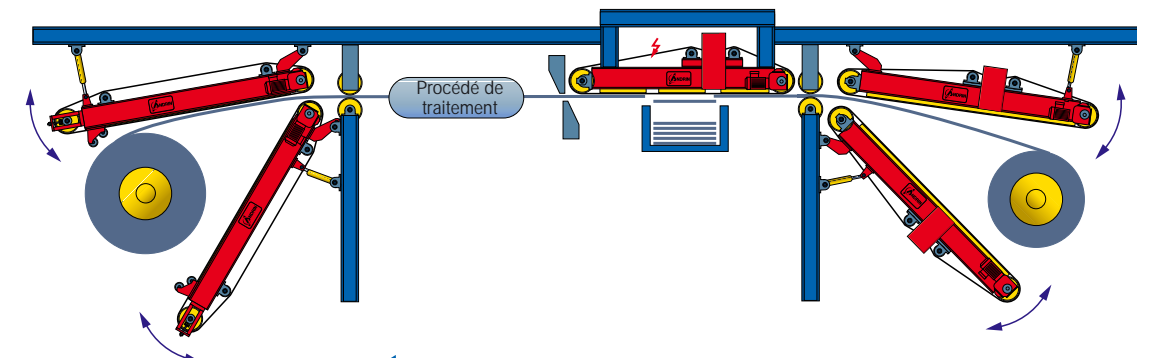
RTBV

- Travelling crane
- Lifter
- Hooped coils:
 - horizontal axis
 - vertical axis
 - cone tightened



CMP • CEM

- Sheet lines
- Pickling
- Cold rolling mill
- Scouring
- Skin pass
- Continuous annealing
- Tinplate
- Galvanizing
- Electroplating
- Organic coating
- Slitting
- Length cutting



MAGNETIC LIFTING QUESTIONNAIRE

SPECIFICATIONS OF PRODUCTS TO BE LIFTED

1. Types and shapes	2. Length x width x height (mm)	3. Weight (kg)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
<i>(draw section if necessary)</i>	<i>(Minimum, Maximum)</i>	<i>(Minimum, Maximum)</i>
4. Safety Factor	5. Duty cycle	6. Operating factor
_____	hours/day _____	as % _____
7. Temperature during handling (C°)	_____	
8. Bulk density of bulk product (t/m³)	_____	
9. Battery safety <input type="checkbox"/>	10. Magnet selectivity <input type="checkbox"/>	11. Metering <input type="checkbox"/>

LIFTING EQUIPMENT SPECIFICATIONS

Lifting equipment		Reel
1. Type	5. Max. and min. axle centres	1. Lifting speed
_____	as mm _____	as m/min _____
2. Make	6. Suppl	2. Hook travel
_____	frequency in Hertz _____	as m _____
3. Lifting capacity	voltage _____	3. Electric cable length
daN	7. Direct Current	as m _____
4. Number of hooks	voltage _____	4. Number of movements
_____		Per day _____ pro hour _____

Company _____ Telephone _____

Address _____ Date _____

_____ Contact _____

OUR KNOW-HOW



REMOVAL OF IRON

Our experience gained in the “removal of iron” from continuous flow products enables us today to offer a range of equipment suitable for each use. Our products meet the most specific of your needs, whether protecting, purifying, selecting, sorting or separating. In terms of quality, output and reliability they guarantee your requirements.



METAL EXTRACTION

We guarantee results which link performance, reliability and technological solutions, to continuous innovation. Our control of Eddy currents, metal sensing, magnetized compressed air and electrostatic forces enables us to solve numerous cases of non-ferrous metal separation. Using our products, durable solutions can be reached for bulk product sorting in continuous handling.



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