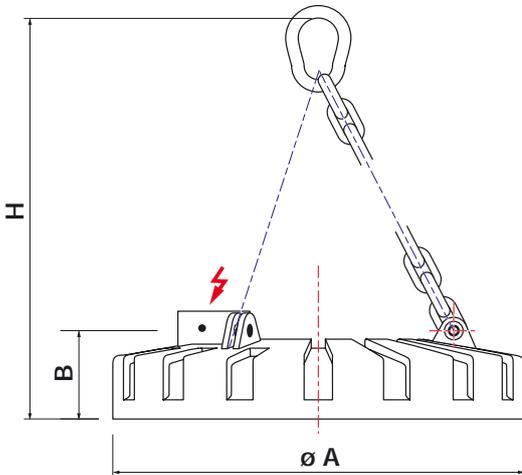


CIRCULAR LIFTING ELECTROMAGNET

CGMA R

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

SCOPE

The **CGMA Rs** are circular lifting electromagnets recommended for :

- loading and unloading trucks and railroad cars,
- cleaning worksites, roads or railways,
- eliminating bulky ferrous materials or industrial remnants,
- steel and cast iron foundries.

TECHNICAL DESCRIPTION

The **CGMA Rs** consist of a single-block frame forming a high-performance magnetic circuit. The main components are :

- a ribbed foundry frame made of high magnetic permeability cast steel. The mechanical fittings and support surfaces are machined,
 - three suspension rings with pins and washers,
 - an aluminum conductor winding with reinforced insulation,
 - a wear plate made of non-magnetic manganese steel,
 - a fill-in resin blocking and insulating the coil in the frame (H or C class depending on usage),
 - a double electric box allowing external connection while protecting the internal windings.
- A bumper cast with the frame protects them against lateral mechanical shocks.

INSTALLATION MODALITIES

The **CGMA Rs** can be installed on any lifting device (overhead crane, truck crane, gantry crane, steam shovel, etc.). They are designed for individual usage and are suspended by a chain with three common suspension ring strands.

The electrical connection is made using a power cable with 3 large-section conductors externally protected.

SPÉCIFICATIONS

Performances vary according to various parameters :

- characteristics of the products to be treated
- characteristics of the ferromagnetic elements to be lifted
- temperature of the products.

Five CGMA Rs are offered according to their diameter :

1000, 1150, 1250, 1350, 1500 mm.

ADDED FEATURES

- Sealed cast steel frame extremely resistant to shocks and wear,
- Magnetic circuit protection against external particles and moisture,
- Weight/power ratio, guaranteeing maximum maneuverability,
- Heat dissipation, thanks to slotting,
- Double connecting box,
- Duty cycle : 50 % to 75 % depending on usage.

USAGE MODE

No special servicing or maintenance is required except for a periodic check of the electrical connections, suspension links and frame.

OPTIONS

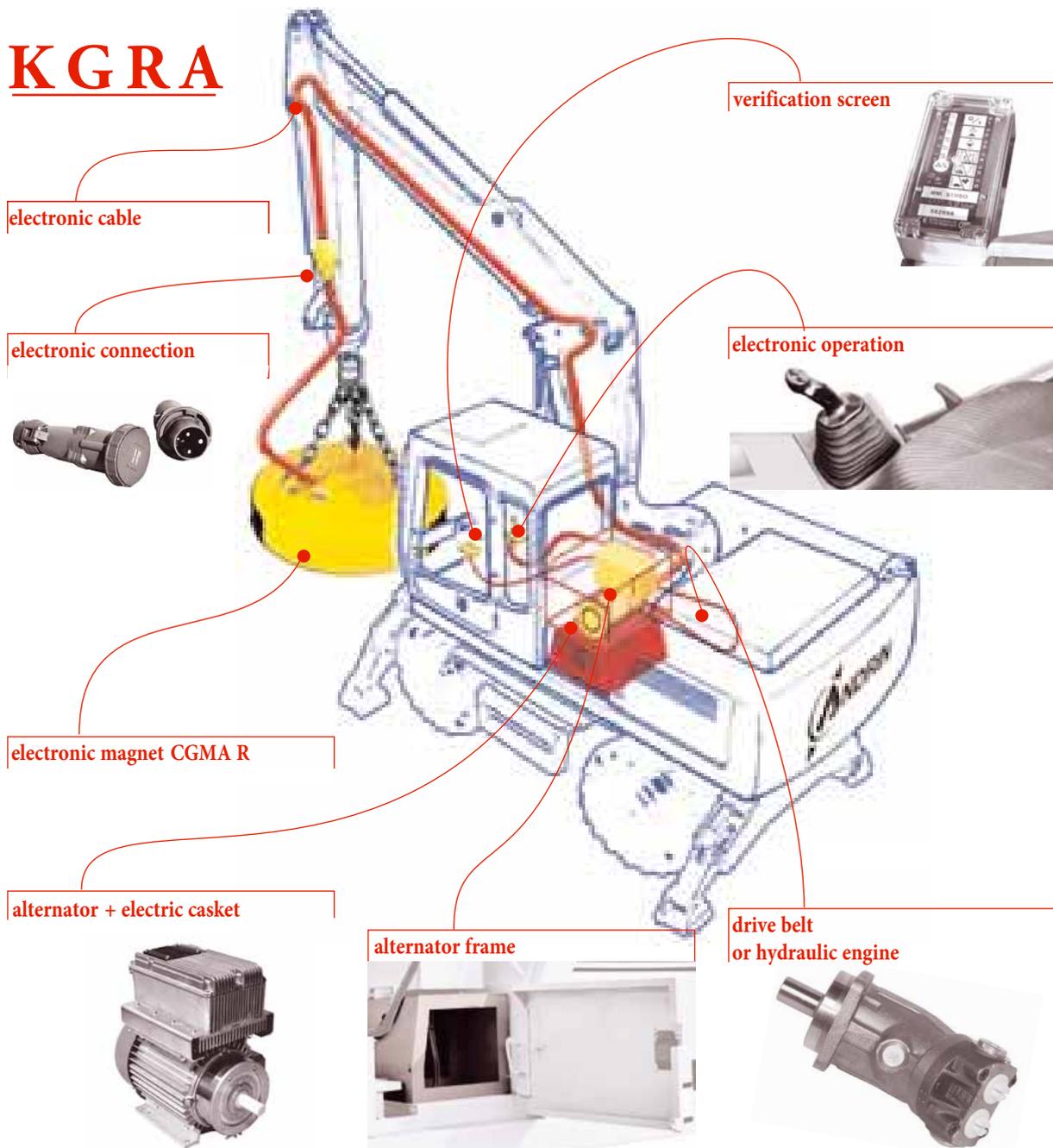
- **Mobile Kit**
- **Electric connectors**
- **Electric feeding cabinet**
- **Special voltage**
- **Protective circling**
- **High hardness refill for supporting surfaces**
- **Independent chains for stabilization**
- **Knob for crane clutch**
- **Sealed version**
- **Special series for handling hot products**
- **Other tailored dimensions up to 1650 mm diameter.**

TECHNICAL DATA

TYPE	Weight kg	Magnet power at 20° W	Voltage VCC	Dimensions (mm)			Lifting capacity kg				
				A	B	H	Slab	turnings	Light scrap	Cast iron	
CGMA R 100	825	4400	220	1030	290	1085	9500	80-180	180-300	300-540	
CGMA R 115	1170	5700	-	1190	310	1105	12000	115-260	260-400	400-730	
CGMA R 125	1420	8300	-	1290	320	1115	14000	145-330	330-495	495-910	
CGMA R 135	1810	9000	-	1400	340	1245	15500	175-400	400-590	590-1050	
CGMA R 150	2330	10400	-	1550	350	1255	19000	225-520	520-755	755-1400	

The lifting capacities above are indicated for good lift conditions and for a specific operating temperature reached with a duty cycle of 60 %.

MAGNETIC LIFTING KIT FOR HYDRAULIC SHOVEL

KGRA

APPLICATION FIELD

The **KGRA** are electrification kits for all types of mobile machines (hydraulic shovel, lift trolley, eletrogen groups...) for the feeding of direct current electric magnets.

TECHNICAL DESCRIPTION

The **KGRA** kit is implanted around the synchronous alternator (without carpet sweeper). His drive is realized by a mechanical (pulley/drive belt) or a hydraulic transmission.

The energy is supplied by a thermal (diesel or petrol) or an electric engine. The alternator is regulated by an electronic box. A live axle rectifier transforms the alternating current into direct current. The magnetization and the demagnetization are executed by a static reverser, equipped with Thyristors.

INSTALLATION MODES

The **KGRA** kits are installed by our technical service, either on the yard or at the constructors or the concessionaries. The clients who have the ability to install electronic equipment can install the kits themselves.



ADVANTAGES

- Compliance of the equipment with the electric norms EN 60 204
- 3 different electric protection levels for the equipment
- Coordination with the hydraulic shovel constructors
- Self-regulation according to speed
- Operation and marking are ergonomic
- Electric box IP65 is very strong against shocks and vibrations
- Running factor: 100 %, measured electronically
- Alternator doesn't need any maintenance

OPTIONS

- Mobile Kit
- Alternator ist hydraulic mechanized
- Special connectors
- Generating set is self-contained
- Transfer of the equipment

