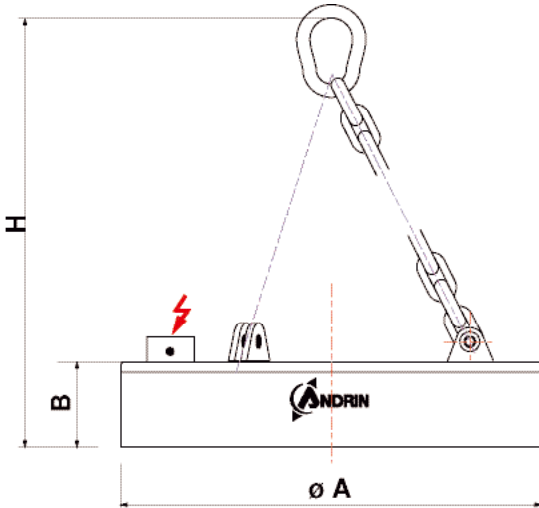


CIRCULAR LIFTING ELECTROMAGNET

CSA



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

SCOPE

The CSAs 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 CSAs consist of a block forming a high-performance magnetic circuit. The main components are :

- a welded frame made of high magnetic permeability 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.

INSTALLATION MODALITIES

The CSAs can be installed on any lifting device (overhead crane, truck crane, gantry crane, steam shovel, etc.). They are designed for individual usage and are sus-pended 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 :

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

11 CSAs are offered according to their diameter :

De 500 à 2000 mm.

ADDED FEATURES

- Welded steel frame extremely resistant to shocks and wear,
- Magnetic circuit protection against external particles and moisture,
- Weight/power ratio, guaranteeing maximum maneuverability,
- 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

- Electric connectors
- Electrical control, monitoring and safety equipment (contactor or static variant)
- 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 ø3000 mm.

TECHNICAL DATA

TYPE	Weight kg	Magnet power at 20° W	Voltage VCC	Dimensions (mm)			Lifting capacity kg			
				A	B	H	Slab	turnings	Light scrap	Castion
CSA 50	236	990	220	510	167	747	4900	20-40	40-65	65-115
CSA 65	260	1900	-	650	177	760	6800	30-60	60-95	95-175
CSA 85	500	3450	-	850	180	765	7300	40-95	95-145	145-280
CSA 100	800	4400	220	1000	190	1030	9000	80-180	180-300	300-540
CSA 115	1150	5700	-	1150	205	1050	11400	115-260	260-400	400-730
CSA 125	1340	8300	-	1250	210	1055	13300	145-330	330-495	495-910
CSA 135	1760	9000	-	1350	235	1200	14700	175-400	400-590	590-1050
CSA 150	2290	10400	-	1500	245	1210	18500	225-520	520-755	755-1400
CSA 165	3600	19500	220	1650	320	1647	30100	320-830	830-1340	1340-2470
CSA 180	4400	23000	-	1800	330	1657	36000	390-1000	1000-1620	1620-2970
CSA 200	5700	27000	-	2000	340	1667	44500	445-1165	1165-1890	1890-3555

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

