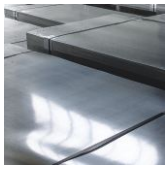
E2015EN

# Circular lifting magnet type EO





## INTENDED USE

- Lifting and handling of ferromagnetic loads: blocks, castings, sheet and wire coils with vertical axis and ferrous scrap.
- Improvement of transport and reloading in steelworks, foundries, scrap yards and plants, where speed of handling is essential.

## FEATURES

- High efficiency of steel handling compared to traditional methods.
- Duty cycle ED 75% / 10 min.
- High winding thermal insulation class.
- Adjustment of attractive force by electronic control.
- Shortest lifting magnet magnetization / demagnetization time.

## ACCESSORIES

- Control cabinet for power supply, monitoring of the operating states and control of the lifting magnet.
- DC converter to adjust the lifting magnet power with the potentiometer or tip off button.
- Emergency back-up power supply system provided with immediate voltage failure signalling and switching over to the emergency battery supply.
- Spring-driven or motor-driven cable reel supplying power to the lifting magnet.
- Remote control from the gantry operator control panel.
- Radio control for ground personnel.

## EXAMPLE PROJECTS


Transport of scrap metal pieces.

Steel chips reloading.

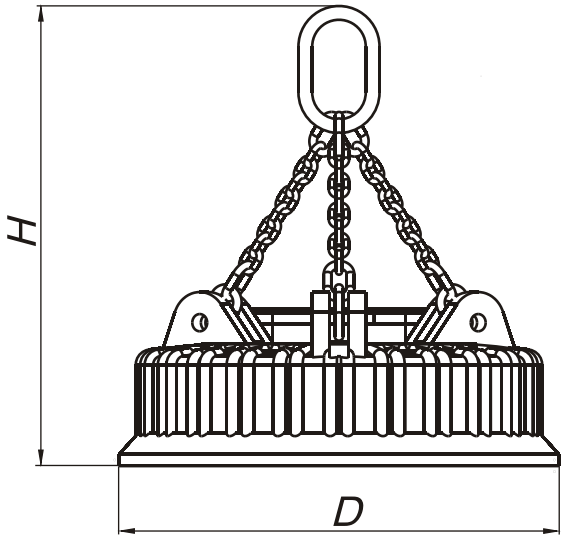
Wire coils lifting.

Sheet coil lifting.

## DESIGN

- Welded body (EOS) made of high magnetic permeability steel, of suitable durability and easy to repair.
- Cast body (EOR) made of long life deeply ribbed steel casting, intended for harsh operating conditions.
- Electrical winding composed by aluminium or copper (option) flat wire with reinforced insulation and supplied with 220 VDC.
- Internal filling by special mixture with high dielectric insulation properties and high termal dispersion coefficient.
- Reinforced bottom plate made of non-magnetic and wear-resistant manganese steel.
- Terminal box protected against mechanical impacts.
- Chain composed by 3 or 4-leg sling in high resistance steel alloy grade 8 with top ring for single hook.

# TECHNICAL DATA




| Type | Power* | D | H | Body | Weight | Lifting capacity (kg)** | | | |
|---|---|---|---|---|---|---|---|---|---|
| | (kW) | (mm) | (mm) | | (kg) | Slab | Ball | Pig iron | Chips |
| EOS 100 | 5,0 | 1000 | 1150 | Welded | 1200 | 10 000 | 5 000 | 550 | 200 |
| EOS 120 | 8,0 | 1200 | 1450 | | 1800 | 18 000 | 7 000 | 850 | 350 |
| EOS 140 | 12,0 | 1400 | 1650 | | 2300 | 23 000 | 9 500 | 1 200 | 450 |
| EOS 150 | 15,0 | 1500 | 1750 | | 3400 | 29 000 | 11 000 | 1 650 | 600 |
| EOS 150+ | 20,0 | 1500 | 1750 | | 4050 | 32 500 | 12 000 | 1 800 | 700 |
| EOS 170 | 20,0 | 1700 | 2150 | | 5400 | 38 000 | 16 500 | 2 400 | 900 |
| EOS 170+ | 25,0 | 1700 | 2000 | | 6100 | 43 000 | 17 000 | 2 400 | 1 000 |
| EOS 180 | 25,0 | 1800 | 2200 | | 6200 | 45 000 | 21 000 | 3 000 | 1 100 |
| EOS 180+ | 30,0 | 1800 | 2300 | | 7000 | 52 500 | 24 000 | 3 350 | 1 400 |
| EOS 200 | 30,0 | 2000 | 2400 | | 9100 | 55 000 | 30 000 | 3 400 | 1 300 |
| EOS 200+ | 35,0 | 2000 | 2500 | | 10400 | 60 000 | 32 000 | 3 900 | 1 600 |
| EOS 208 | 40,0 | 2080 | 2500 | | 12500 | 75 000 | 40 000 | 4 500 | 1 750 |
| EOR 95 | 4,0 | 950 | 1330 | Steel casting | 750 | 6 500 | 2 000 | 450 | 140 |
| EOR 105 | 5,0 | 1050 | 1350 | | 950 | 8 000 | 2 500 | 580 | 175 |
| EOR 115 | 6,0 | 1150 | 1425 | | 1325 | 10 100 | 3 500 | 800 | 240 |
| EOR 125 | 7,0 | 1250 | 1425 | | 1500 | 11 000 | 4 000 | 850 | 260 |
| EOR 130 | 8,0 | 1300 | 1380 | | 1800 | 15 400 | 5 500 | 900 | 270 |
| EOR 150 | 10,0 | 1500 | 1630 | | 2500 | 22 600 | 6 500 | 1 100 | 330 |
| EOR 150+ | 11,0 | 1500 | 1675 | | 2900 | 27 000 | 7 500 | 1 200 | 360 |
| EOR 166 | 13,0 | 1660 | 1675 | | 3350 | 30 100 | 9 000 | 1 500 | 450 |
| EOR 172 | 15,0 | 1720 | 1685 | | 4000 | 32 500 | 10 500 | 1 800 | 540 |
| EOR 180 | 18,0 | 1800 | 1700 | | 5200 | 47 500 | 12 900 | 2 340 | 800 |
| EOR 200 | 20,0 | 2000 | 1615 | | 5400 | 49 000 | 13 900 | 2 900 | 1 100 |
| EOR 200+ | 25,0 | 2000 | 2300 | | 7000 | 65 500 | 18 000 | 3 330 | 1 300 |
| EOR 200++ | 30,0 | 2000 | 2330 | | 8000 | 75 400 | 28 000 | 4 000 | 1 480 |
| EOR 220 | 35,0 | 2200 | 2400 | | 11500 | 86 000 | 34 000 | 4 800 | 1 600 |
| EOR 140HD | 11,0 | 1400 | 1800 | | 3400 | 32 100 | 11 400 | 1 750 | 530 |
| EOR 150HD | 15,0 | 1500 | 1855 | | 5000 | 41 000 | 12 900 | 1 930 | 580 |
| EOR 166HD | 22,0 | 1660 | 1800 | | 7000 | 55 000 | 18 000 | 2 900 | 880 |

* The lifting magnet power in the condition of cold electromagnet.

** Approximate lifting capacity in the condition of hot electromagnet.