WINKLE

2026-27 PRODUCT CATALOG

MATERIAL HANDLING




WINKLE



WINKLE

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Winkle is part of a group of companies offering attachment solutions in the material handling, forestry & land clearing, steel production & distribution, construction, and ag & light industrial industries.

GRYB

GRYB BATEMAN WINKLE SHEAREX

SERCO LOADERS e-Trak RADTECH INNOVATION DALKO TECH

REMAN SERVICES

EXTEND SERVICE LIFE. MAXIMIZE VALUE.



BRING YOUR *MAGNETIC* OR *MECHANICAL* LIFTING EQUIPMENT BACK TO LIFE.

Convert damaged or out-of-service lifting device into safe, reliable, and fully functional tools. Our in-house remanufacturing process removes the guesswork and focuses on restoring performance while maximizing the remaining value of your equipment.

WHAT SETS OUR PROCESS APART

Every rebuild follows strict OEM specifications and is validated through a complete series of:

- Mechanical testing
- Electrical testing
- Operational performance testing
- Cycle testing at rated duty conditions
- We also measure lifting capabilities under various conditions to ensure safety and real-world performance.

A COMPLETE, DATA-DRIVEN REBUILD APPROACH

- Multi-point inspections
- Failure analysis
- Upgrade options
- Detailed quotations
- Historical data tracking

THE RESULT

A fully restored lifting solution that delivers like-new performance, reliability, and safety, while extending the life of your equipment.


WINKLE





ENGINEERED FOR SUCCESS

CIRCULAR SCRAP HANDLING MAGNET

DS SERIES

Utilize the full capacity of your crane, cut downtime and maximize the profitability of your application. Choose from the most diverse porfolio of scrap magnets in the industry.

STANDARD FEATURES

- Heavy-duty fabricated steel case
- High-impact resistant manganese steel bottom plate
- Grade 80 high alloy steel chain assembly
- Quenched & tempered steel pins and collars
- Ground-wired, easy access terminal box
- Wear resistant hard-faced pole shoes
- Aluminum wound coil
- Class “H” insulations
- 230 volt DC operation
- 75% continuous duty-cycle
- Moisture & shock resistant high-dielectric compound

AVAILABLE OPTIONS

- Customer-specified requirements
- Custom voltages
- Custom sizes
- Copper-wound coils
- OptiGen self-contained DC magnet
- Power supply

WARRANTY 1 YEAR


EEN
WATERMAN

OPTIMIZE YOUR PRODUCTION

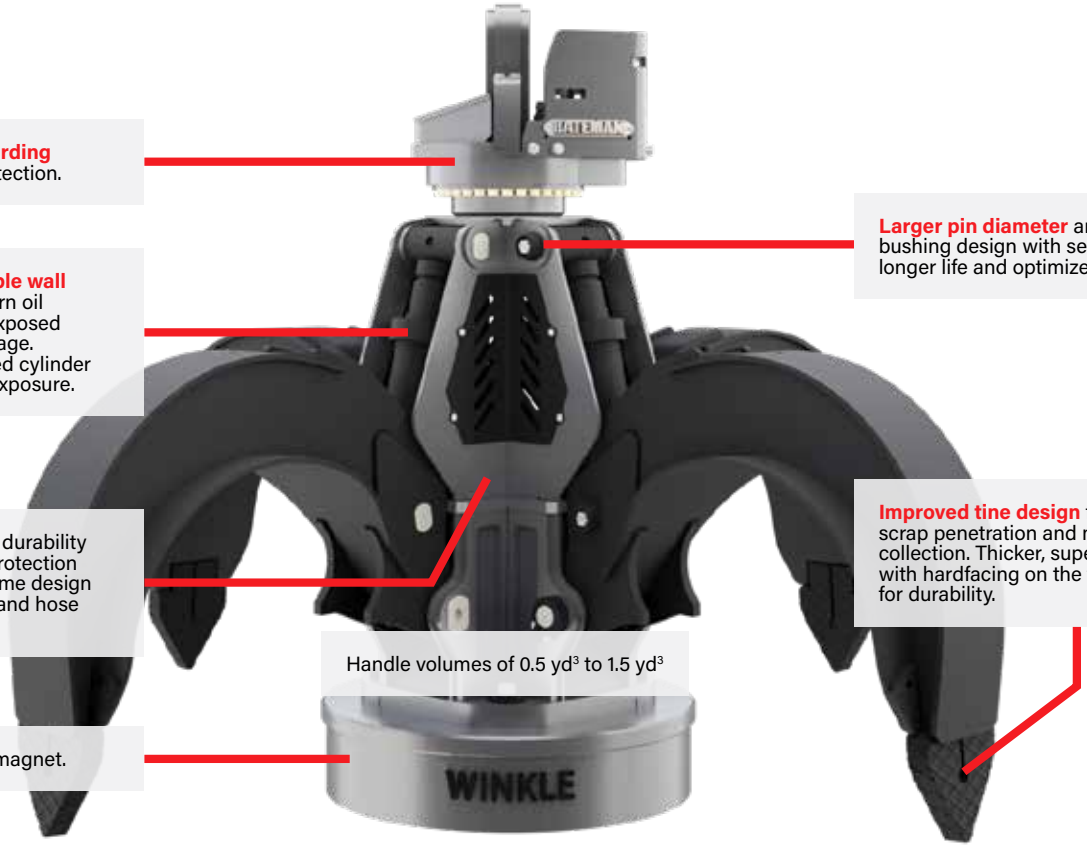
GRAPPLE MAGNETS

DSG SERIES

Our DSG Series magnets give operators the ability to combine the tines of a standard orange peel grapple with the lifting capacity of a round magnet, creating a versatile solution for scrap handling. The magnet can be used to efficiently clean up and collect material, while the grapple allows for increased lifting capacity and secure handling. By holding the scrap with the grapple when the magnet is de-energized, operators can significantly reduce magnet wear and tear, helping extend equipment life and improve overall efficiency on the job.

FEATURES

- Heavy-duty fabricated steel case
- High-impact resistant manganese steel bottom plate
- 75% continuous duty-cycle
- Moisture & shock resistant high-dielectric compound



Improved rotator guarding for greater impact protection.

Newly designed double wall cylinders include return oil channel, eliminating exposed hoses and risk of damage. Now with fully enclosed cylinder guards, zero chrome exposure.

More robust body for durability and greater cylinder protection as well as a thicker frame design for better pin support and hose guarding.

Heavy duty lift scrap magnet.

Larger pin diameter and improved bushing design with seals for longer life and optimized work time.

Improved tine design for optimal scrap penetration and material collection. Thicker, superior design with hardfacing on the tip area for durability.

Handle volumes of 0.5 yd^3 to 1.5 yd^3

12/24V BATTERY MAGNET
BM SERIES

Winkle's 12/24-volt scrap electromagnets are battery-powered solutions designed to meet the specific demands of the rail and scrap industry.

The 12/24V battery magnets include 60 feet of cables, equipped with a safety fuse to ensure the highest level of safety. All components in these battery magnets are designed and manufactured to meet quality standards and provide optimal performance.

FEATURES

- No generator
- Easily adjustable to your machine
- Cost effective
- Aluminium coil with the best duty cycle on the market

INCLUDES

- Chains
- 80 or 100-amp controller equipped with:
  - Operator Control w/ foot pedal
  - 20' cable for control operator
  - Color HMI to install in the Cab
- 60' of AWG Boom Cable with safety fuse (80-amp = AWG 6/2C Type W; 100-amp = AWG 4/2C Type W)
- 20' cable to the battery (80-amp = AWG 6/2C Type W; 100-amp = AWG 4/2C Type W)



ULDSA MAGNET

Introducing the ULDSA ultra-light scrap magnet: reduce downtime and boost profitability across your operations.

FEATURES

- One of the lightest models in its category
- Heavy-duty fabricated steel case
- High-impact resistant manganese steel bottom plate
- Grade 80 high alloy steel chain assembly
- Wear resistant hard-faced pole shoes
- Aluminum wound coil
- Class "H" insulations
- 230 volt DC operation
- 75% Continuous cuty-cycle
- Moisture & shock resistant high-dielectric compound



BULLET® CABLE PROTECTOR

The Bullet® cable protection system prevents abrasions, nicks, cuts and heavy impacts that cause premature electrical failures to lifting magnets and magnet system components.

RELIABLE
The Bullet® is engineered and developed for simple attachment and maximum cable flexibility for a full range of magnet power cables, ensuring reliable operation and optimum protection.

DURABLE
Each Bullet® is molded in a high-density polymer material engineered and analyzed to resist environmental factors such as UV degradation and extreme hot and cold conditions, ensuring durability and extended service-life.



FEATURES

- Reduce magnet lead repairs and replacements.
- Minimize premature lifting magnet failures.
- Prevent premature damage to magnet system components.
- Protect machine's main electrical system from damage.



THE PERFECT COMBO

THE BULLET CABLE PROTECTOR & THE APOLLO CABLE RESTRAINT SYSTEM.

The apollo cable restraint system clamps magnet power cables beneath the connections to reduce the weight and tension applied to electrical connections. The strain relief also acts as a security device in the event a magnet power cable is snagged.







POWER ON

GENERATORS

Bateman hydraulic generator kits are purpose-built and machine-specific, enabling quick excavator or material handler conversion installations and efficient material handling for scrap and recycling applications. These kits offer several key benefits, including adjustable power output limits, adjustable torque control, six selectable lift/drop operator modes, an integrated real-time performance display, and a replaceable short-circuit protection device.

Bateman also remains a leader in the scrap industry, offering the most reliable and high-performing diesel-powered generators on the market. All Bateman diesel generator kits are supplied with cables and controls, and can be paired with Bateman's and Winkle's range of attachments, including the Mag-Grab, Demo-Mag, Bucket Mag, or Scrap Mag, for enhanced operational efficiency.

FEATURES

- Ranges from 9kW - 30kW
- Most reliable on the market
- **Hydraulic models** can detect equipment railure
- All **diesel models** include cables & control

SCRAPYARD MAGNET MONITOR

Our Digital Magnet Monitor (DMM) is designed to detect when a lifting magnet's operating current is above or below predetermined set points.



MAGNET CONTROLLER

Winkle offers the industry's most extensive portfolio of constant potential and solid-state magnet controllers.



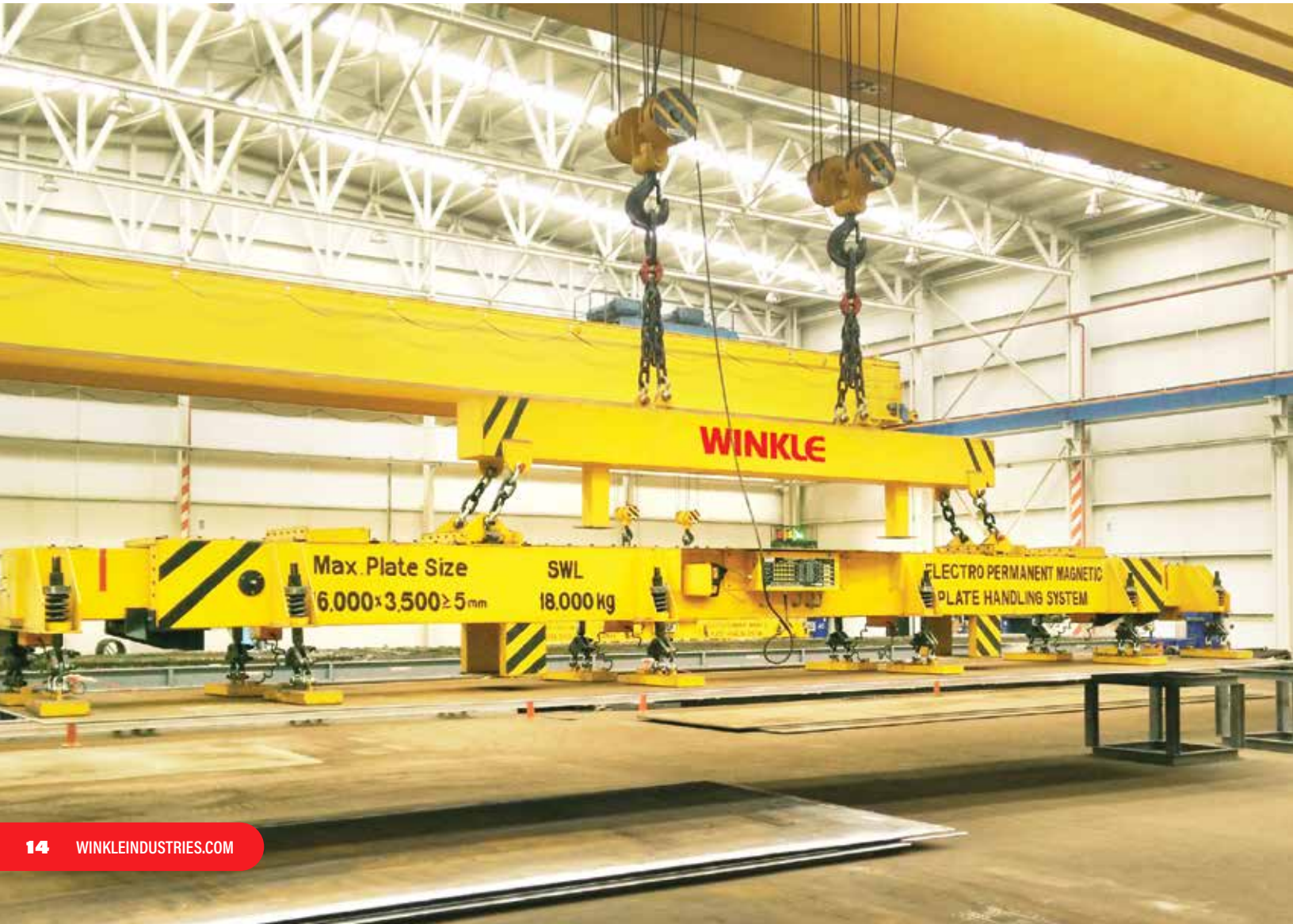


PERMANENT MAGNETS HOLD THE LOAD. ELECTRICITY ONLY SWITCHES IT.

A conventional lifting electromagnet needs current for as long as the load is in the air — and a backup battery in case the power drops. In a Winkle electro-permanent magnet (EPM), the holding force comes from permanent magnets. Power is used only for a few seconds to switch the magnet ON or OFF, which cuts energy use and removes the battery from the safety chain.

ELECTROMAGNETS VS. ELECTRO-PERMANENT MAGNETS

	CONVENTIONAL ELECTRO MAGNETS	WINKLE ELECTRO-PERMANENT (EPM)
Source of the holding force	Continuous DC current through the coil	Permanent magnets inside each module
Electricity during the lift	Required for the whole lift	Only a short pulse to magnetize or demagnetize
Power failure with load suspended	Load is held only if a backup battery is fitted	Load stays held — the magnetic state does not depend on power
Backup batteries	Required, with recurring replacement cost	Not required — no recurring batteryreplacement cost
DC contactors	Maintenance required	No DC contactor maintenance
Electrical power consumption	Reference	97% less than a similar electromagnet

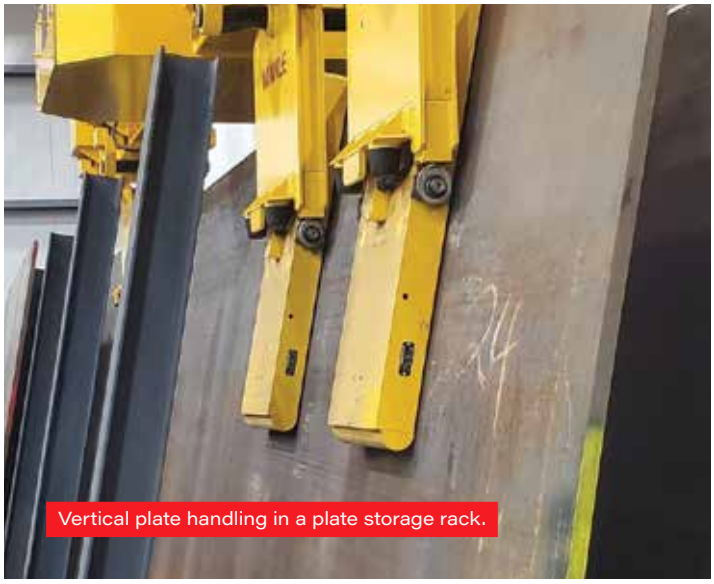




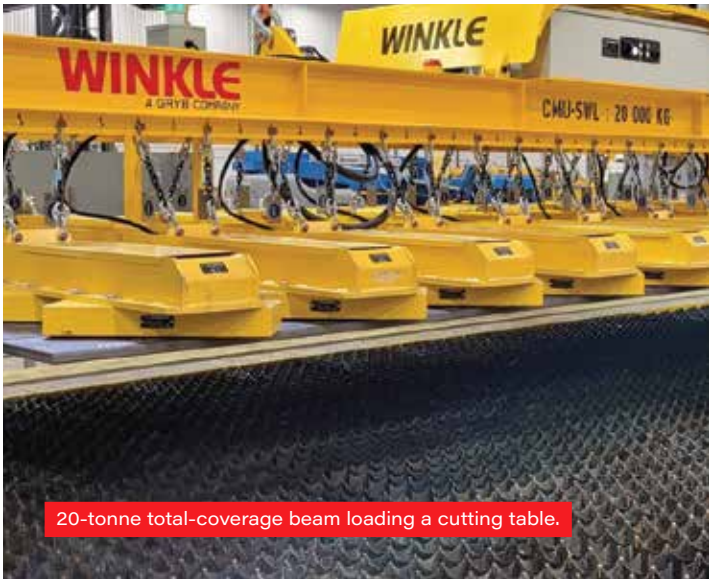
Billet handling beam in a steel mill.



EPM plate handling system lifting a full plate.



Vertical plate handling in a plate storage rack.



20-tonne total-coverage beam loading a cutting table.



EPM lifting frame for cutting-table loading.



EPM coil lifter in a coil processing line.

MAGNETIC DEVICES TECHNICAL SPECIFICATIONS

CIRCULAR SCRAP MAGNET

ELDSA - Extra-Light Deep Field Aluminum

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
30	895 (406)	18	230	5 kW	#12	575 (261)	375 (170)	225 (102)
34	1,050 (476)	22	230	5 kW	#12	700 (318)	450 (204)	275 (125)
40	1,700 (771)	32	230	7.5 kW	#10	1,250 (567)	775 (352)	400 (181)
48	2,500 (1,134)	44	230	10 kW	#8	1,925 (873)	1,275 (578)	625 (283)
58	3,850 (1,746)	65	230	15 kW	#8	3,025 (1,372)	1,975 (896)	950 (431)
68	5,800 (2,631)	87	230	20 kW	#6	4,425 (2,007)	2,875 (1,304)	1,500 (680)
72	7,500 (3,402)	102	230	25 kW	#4	5,550 (2,517)	3,850 (1,746)	1,775 (805)

CIRCULAR SCRAP MAGNET

LDSA - Light Deep Field Aluminum

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
30	1,025 (465)	20	230	5 kW	#12	625 (283)	425 (193)	250 (113)
34	1,275 (578)	23	230	5 kW	#12	775 (352)	500 (227)	300 (136)
36	1,475 (669)	22	230	5 kW	#12	850 (386)	525 (238)	350 (159)
40	1,850 (839)	34	230	7.5 kW	#10	1,375 (624)	800 (363)	425 (193)
48	2,900 (1,315)	45	230	10 kW	#8	2,075 (941)	1,300 (590)	650 (295)
53	3,650 (1,656)	53	230	13 kW	#8	2,475 (1,123)	1,625 (737)	800 (363)
58	3,950 (1,792)	66	230	15 kW	#8	3,150 (1,429)	2,125 (964)	1,025 (465)
63	5,375 (2,438)	75	230	17 kW	#6	3,975 (1,803)	2,650 (1,202)	1,300 (590)
68	6,000 (2,722)	88	230	20 kW	#6	4,650 (2,109)	2,975 (1,349)	1,525 (692)
72	7,750 (3,515)	108	230	25 kW	#4	5,625 (2,551)	3,975 (1,803)	1,850 (839)

CIRCULAR SCRAP MAGNET

DSA - Deep Field Aluminum

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
34	1,500 (680)	24	230	5 kW	#12	850 (386)	525 (238)	350 (159)
36	1,625 (737)	25	230	7.5 kW	#12	925 (420)	600 (272)	375 (170)
40	2,075 (941)	36	230	9 kW	#10	1,500 (680)	925 (420)	450 (204)
48	3,100 (1,406)	47	230	10 kW	#8	2,200 (998)	1,350 (612)	700 (318)
53	3,825 (1,735)	55	230	13 kW	#8	2,650 (1,202)	1,775 (805)	825 (374)
58	4,250 (1,928)	67	230	15 kW	#8	3,350 (1,520)	2,250 (1,021)	1,125 (510)
63	5,625 (2,551)	78	230	17 kW	#6	4,250 (1,928)	2,725 (1,236)	1,375 (624)
68	6,400 (2,903)	90	230	20 kW	#6	4,775 (2,166)	3,125 (1,417)	1,575 (714)
72	8,450 (3,833)	111	230	25 kW	#4	5,750 (2,608)	4,125 (1,871)	1,900 (862)
78	10,200 (4,627)	131	230	30 kW	#2	6,950 (3,152)	4,475 (2,030)	2,250 (1,021)
84	12,950 (5,874)	165	230	40 kW	#2	7,950 (3,606)	5,375 (2,438)	2,700 (1,225)
88	14,800 (6,713)	179	230	40 kW	#1	8,975 (4,071)	6,100 (2,767)	3,150 (1,429)
93	16,500 (7,484)	212	230	45 kW	1/0	10,600 (4,808)	7,925 (3,595)	3,975 (1,803)
98	20,675 (9,378)	237	230	55 kW	2/0	12,225 (5,545)	9,750 (4,423)	4,800 (2,177)

CIRCULAR SCRAP MAGNET

EDSA - Extra Deep Field Aluminum

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
34	1,700 (771)	25	230	7.5 kW	#12	925 (420)	575 (261)	375 (170)
36	2,025 (919)	29	230	7.5 kW	#12	1,050 (476)	700 (318)	425 (193)
40	2,300 (1,043)	38	230	9 kW	#10	1,650 (748)	1,050 (476)	475 (215)
48	3,300 (1,497)	48	230	13 kW	#8	2,350 (1,066)	1,450 (658)	750 (340)
58	4,700 (2,132)	69	230	15 kW	#8	3,675 (1,667)	2,375 (1,077)	1,200 (544)
68	6,825 (3,096)	94	230	20 kW	#6	4,925 (2,234)	3,300 (1,497)	1,675 (760)
72	8,600 (3,901)	114	230	25 kW	#4	5,900 (2,676)	4,200 (1,905)	1,950 (885)
78	10,750 (4,876)	133	230	30 kW	#2	7,150 (3,243)	4,700 (2,132)	2,325 (1,055)
84	13,650 (6,192)	169	230	40 kW	#2	8,225 (3,731)	5,625 (2,551)	2,825 (1,281)
88	15,175 (6,883)	188	230	40 kW	#1	9,325 (4,230)	6,325 (2,869)	3,275 (1,486)
93	17,450 (7,915)	219	230	55 kW	1/0	10,950 (4,967)	8,350 (3,787)	4,100 (1,860)
98	21,375 (9,695)	246	230	55 kW	2/0	12,575 (5,704)	10,375 (4,706)	4,925 (2,234)

MAGNETIC DEVICES TECHNICAL SPECIFICATIONS

CIRCULAR SCRAP MAGNET

DSA-DV - Deep Field Aluminum - Dual Voltage

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
84	12,950 (5,874)	207/162	230/180	45 kW	1/0	8,350 (3,787)	5,650 (2,563)	2,850 (1,293)
88	14,800 (6,713)	235/184	230/180	55 kW	2/0	9,450 (4,286)	6,350 (2,880)	3,300 (1,497)
93	16,500 (7,484)	281/220	230/180	65 kW	3/0	11,100 (5,035)	8,375 (3,799)	4,125 (1,871)
98	20,675 (9,378)	322/252	230/180	70 kW	4/0	12,750 (5,783)	10,400 (4,717)	4,950 (2,245)

CIRCULAR SCRAP MAGNET

EDSA-DV - Extra Deep Field Aluminum - Dual Voltage

SIZE (DIA.) IN	WEIGHT LB (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LB (KG) #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
84	13,650 (6,192)	212/165	230/180	45 kW	1/0	8,625 (3,912)	5,875 (2,665)	2,975 (1,349)
88	15,175 (6,883)	245/191	230/180	55 kW	2/0	9,825 (4,457)	6,575 (2,982)	3,450 (1,565)
93	17,450 (7,915)	297/233	230/180	65 kW	4/0	11,475 (5,205)	8,800 (3,992)	4,325 (1,962)
98	21,375 (9,695)	345/270	230/180	75 kW	250 MCM	13,125 (5,953)	11,025 (5,001)	5,200 (2,359)

12/24V BATTERY MAGNET

BM Series

MODEL	DIAMETER IN	CURRENT AMPS	VOLTAGE VDC	WEIGHT LB	LIFTING CAPACITY HMS1 LB	DUTY CYCLE %
BM28A	28	85/42	12 or 24	950	Up to 400	75
BM32A	32	85/42	12 or 24	1,300	Up to 600	75
BM36A	36	40/80	24	1,900	Up to 750	75
BM40A	40	40/80	24	2,415	Up to 900	75
BM48A	48	50/100	24	3,375	Up to 1,100	75

ULDSA MAGNET

SIZE (DIA.) IN	WEIGHT LB	VOLTAGE DC	RESISTANCE COLD	AMP. COLD	AMP. HOT	KW MAX	DUTY CYCLE	LIFT DATA LB #1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
30	850	230	14.39	15.98	11.19	3.68	75%	500	325	200
36	1,200	230	11.63	19.78	13.84	4.55	75%	750	425	275
40	1,575	230	7.51	30.63	21.44	7.04	75%	1,150	700	350
48	2,200	230	5.62	40.93	28.65	9.41	75%	1,800	1,200	550
58	3,600	230	3.69	62.33	43.63	14.34	75%	2,825	1,850	875

MAGNETIC DEVICES TECHNICAL SPECIFICATIONS

BATEMAN MAG GRAB

160 Series

MODEL	CAPACITY YD³/M³	MAGNET DIA. IN (MM)	WEIGHT LB (KG)	TIP-TO-TIP WIDTH (OPEN TINES) IN (MM)	HEIGHT (OPEN TINES) IN (MM)	HEIGHT (CLOSED TINES) IN (MM)
BMG16-075-M30	0.75 / 0.55	30 (762)	4,760 (2,159)	99 (2,513)	67 (1,713)	94 (2,377)
BMG16-075-M36	0.75 / 0.55	36 (914)	4,950 (2,245)	99 (2,513)	67 (1,713)	94 (2,377)
BMG16-100-M30	1 / 0.75	30 (762)	4,820 (2,186)	106 (2,693)	68 (1,724)	97 (2,469)
BMG16-100-M36	1 / 0.75	36 (914)	5,020 (2,277)	106 (2,693)	68 (1,724)	97 (2,469)
BMG16-125-M36	1.25 / 0.95	36 (914)	5,140 (2,331)	113 (2,870)	72 (1,829)	104 (2,642)
BMG16-125-M40	1.25 / 0.95	40 (1,016)	6,000 (2,722)	113 (2,870)	68 (1,724)	101 (2,561)

210 Series

MODEL	CAPACITY YD³/M³	MAGNET DIA. IN (MM)	WEIGHT LB (KG)	TIP-TO-TIP WIDTH (OPEN TINES) IN (MM)	HEIGHT (OPEN TINES) IN (MM)	HEIGHT (CLOSED TINES) IN (MM)
BMG210-125-M40	1.25 / 0.95	40	7,700	120	79.5	113
BMG210-150-M40	1.5 / 1.15	40	7,750	124	80	115
BMG210-150-M44	1.5 / 1.15	44	8,250	124	80	115
BMG210-200-M40	2 / 1.53	40	8,200	138	80	122
BMG210-200-M44	2 / 1.53	44	8,600	138	80	122
BMG210-200-M48	2 / 1.53	48	8,850	138	80	122

SELF-CONTAINED ENGINE-DRIVEN GENERATOR

MODEL	GEN. OUTPUT	LENGTH IN (MM)	WIDTH IN (MM)	HEIGHT IN (MM)	CONTROLLER	OPER. COND.	MAX. RPM	WEIGHT LB (KG)	FUEL TYPE
9KW MAGGEN	9 kW	41 (1,041)	23 (584)	32 (813)	100% Duty Cycle Electronic	Air Cooled	3,600	650 (295)	Gas
9KW MAGGEN	9 kW	49 (1,245)	23 (584)	35 (889)	100% Duty Cycle Electronic	Liquid Cooled	3,000	790 (358)	Diesel
15KW MAGGEN	15 kW	49 (1,245)	23 (584)	35 (889)	100% Duty Cycle Electronic	Liquid Cooled	3,000	800 (363)	Diesel
20KW MAGGEN	20 kW	56 (1,422)	28 (711)	42 (1,067)	100% Duty Cycle Electronic	Liquid Cooled	3,000	950 (431)	Diesel
30KW MAGGEN	30 kW	67 (1,702)	32 (813)	42 (1,067)	100% Duty Cycle Electronic	Liquid Cooled	2,500	1,800 (816)	Diesel

HYDRAULIC GENERATOR

MODEL	GENERATOR OUTPUT	LENGTH IN (MM)	WIDTH IN (MM)	HEIGHT IN (MM)	NO. OF POLES	MAGNET SIZE IN (MM)	WEIGHT LB (KG)
9KW HYDGEN	9 kW	30 (762)	15 (381)	18 (457)	4	24 - 40 (610 - 1,016)	210 (95)
15KW HYDGEN	15 kW	31 (787)	15 (381)	18 (457)	4	40 - 57 (1,016 - 1,448)	220 (100)
20KW HYDGEN	20 kW	36 (914)	16 (406)	21 (533)	4	57 - 67 (1,016 - 1,702)	250 (113)
30KW HYDGEN	30 kW	37 (940)	17 (432)	23 (584)	4	60 - 78 (1,524 - 1,981)	350 (159)

WINKLE | GRYB

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