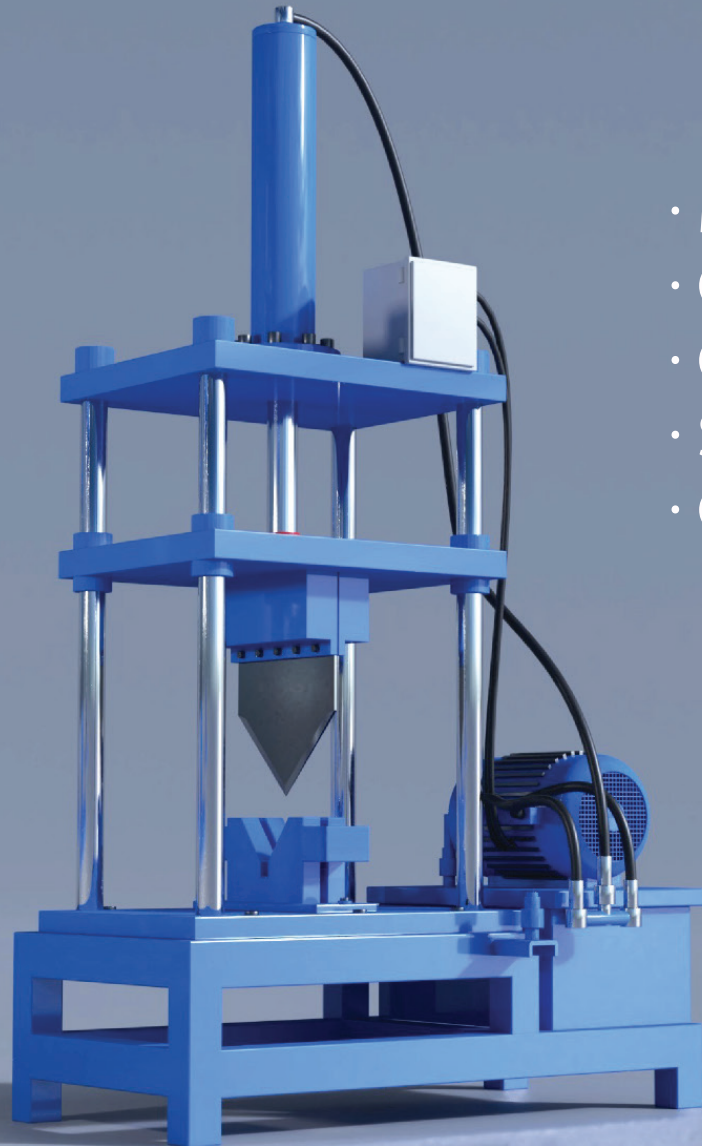




# Groundwork

## RECYCLING EQUIPMENT



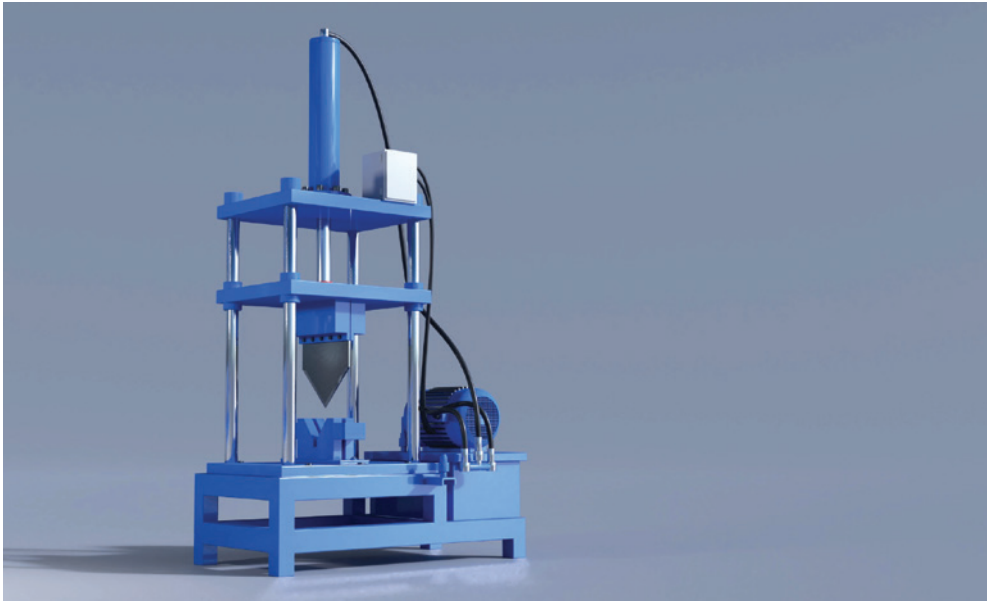
- MOTOR STATOR RECYCLING
- CABLE STRIPPERS
- CABLE GRANULATORS
- SCRAP METAL RECYCLING
- GENERAL WASTE RECYCLING

GROUNDWORK RECYCLING sources high-quality equipment and machinery from the best international suppliers. We can source and supply recycling products direct from the factory.

Take a look at the Recycling Equipment and Machinery we have available. From Cable Granulator machines and motor recycling units, cable stripping machines to general metal waste recycling. – we have the machine to meet your requirements.

#### PRODUCT CATEGORIES

- [A] Motor Stator Recycling
- [B] Cable Strippers
- [C] Cable Granulators
- [D] Scrap Metal Recycling
- [E] General Waste Recycling



## A) Electric Motor Stator Machine

### MR-TS MOTOR RECYCLING MACHINE ELECTRIC MOTOR SPLITTER AND COPPER SEPARATOR

CES supplies the MR-TS Motor Recycling Machine. This recycling machine comes in two components: a Motor Stator Splitter and a Copper Stripping Machine. The Motor Stator Splitter is designed to split used motor stators with its powerful hydraulic knife, and the Copper Stripping Machine strips the copper windings from the split motor stator.



#### SPECIFICATIONS – MOTOR SPLITTER

Model	MR TS
Power (HP)	4
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	300
Physical dimension (mm)	1000 x 470 x 1860
Scrap Motor Size (mm)	0–450

#### SPECIFICATIONS – COPPER STRIPPER

Model	MR TS
Power (HP)	4
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	800
Physical dimension (mm)	1000 x 700 x 940
Scrap Motor Size (mm)	80–300

## A) Electric Motor Stator Machine

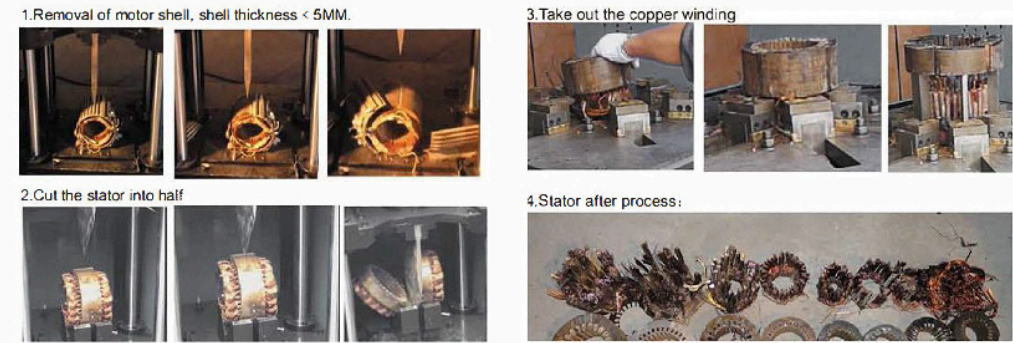
MR-T MOTOR RECYCLING MACHINE

ELECTRIC MOTOR SPLITTER AND COPPER SEPARATOR

CES supplies the MR-T Motor Recycling Machine. This recycling machine can cut and split used motor stators with its powerful hydraulic knife. In addition, the machine also features a copper separator that is designed for stripping copper windings from the split motor stators.

### SPECIFICATIONS – MOTOR SPLITTER

Model	MR T
Power (kw)	5.5
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	1100
Physical dimension (mm)	1800 x 900 x 1500
Scrap Motor Size (mm)	80-300



## A) Electric Motor Stator Machine

### MR-X MOTOR RECYCLING MACHINE

#### ELECTRIC MOTOR SPLITTER AND COPPER SEPARATOR

CES supplies the MR-X Motor Recycling Machine. This recycling machine can cut and split used motor stators with its powerful hydraulic knife. In addition, the machine also features a copper separator that is designed for stripping copper windings from the split motor stators.

#### SPECIFICATIONS – MOTOR SPLITTER

Model	MR X
Power (kw)	5.5
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	690
Physical dimension (mm)	2400 x 950 x 1300
Scrap Motor Size (mm)	50–500





## A) Electric Motor Stator Machine

MMC 1000

MOTOR STATOR SPLITTER & COPPER SEPARATOR

The MMC 1000 is a 2-in-1 machine designed to split electric motor stators as well as strip the copper inside. This machine can recycle motor stators of up to 340mm. It features a powerful hydraulic knife which can cut motors in seconds: The hardened steel knife cuts and splits the non-ferrous steel outer case for access to the copper inside.

### SPECIFICATIONS

Model	MMC 1000
Power (HP)	7.5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	1350
Physical dimension (mm)	2100 x 1300 x 2100
Max motor size (mm)	340



## A) Electric Motor Stator Machine

EMC 905

### ELECTRIC MOTOR STATOR SPLITTER RECYCLING MACHINE

The EMC 905 Electric Motor Stator Splitter is designed to split any electric motor stator or transformer block up to the size of 340mm in diameter. The machine features a powerful hydraulic knife which can cut motors in seconds. The hardened steel knife cuts and splits the non-ferrous steel outer case for access to the copper wire inside. There is a high bench and a low bench option available

#### SPECIFICATIONS

Model	EMC-905
Power (HP)	5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	700
Physical dimension (mm)	1050 x 600 x 1970
Max motor size (mm)	100



## A) Electric Motor Stator Machine

ECO 800

MOTOR STATOR COPPER STRIPPING MACHINE

The ECO 800 model is designed to remove copper windings from used electric motor stators and transformers. With its high motor power it can remove and separate copper windings efficiently and effortlessly. This model is suitable for stripping copper from motor stator sizes of up to 340mm in diameter.

### SPECIFICATIONS

Model	ECO-800
Power (HP)	7.5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	760
Physical dimension (mm)	2100 x 800 x 1250
Max motor size (mm)	100 – 340





## A) Electric Motor Stator Machine

EHC 800

ELECTRIC MOTOR COPPER WINDING CUTTER

The EHC 800 features a high speed grinder designed to cut through copper windings from used motor stators.

### SPECIFICATIONS

Model	EHC-800
Power (HP)	7.5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	600
Physical dimension (mm)	650 x 2150 x 1290



## A) Electric Motor Stator Machine

ECO 900

MOTOR STATOR COPPER STRIPPING MACHINE

The ECO 900 model is designed to remove copper windings from used electric motor stators and transformers. With its high motor power it can remove and separate copper windings efficiently and effortlessly. This model is suitable for stripping copper from motor stator sizes of up to 340mm in diameter.

### SPECIFICATIONS

Model	ECO-900
Power (HP)	7.5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	760
Physical dimension (mm)	2100 x 800 x 1250
Max motor size (mm)	100 – 340



## A) Electric Motor Stator Machine

ECO 800A

MOTOR STATOR COPPER SEPARATOR

The ECO 800A model is designed to remove and separate copper windings from used electric motor stators and transformers. With its high motor power it can remove and separate copper windings efficiently and effortlessly. This model is suitable for motor stator sizes between 200 – 600mm.

### SPECIFICATIONS

Model	ECO-800A
Power (HP)	7.5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	1700
Physical dimension (mm)	1500 x 3400 x 1800
Max motor size (mm)	200-600
Grabbing Cylinder Power (ton)	8
Pushing up Cylinder Power (ton)	15



## A) Electric Motor Stator Machine

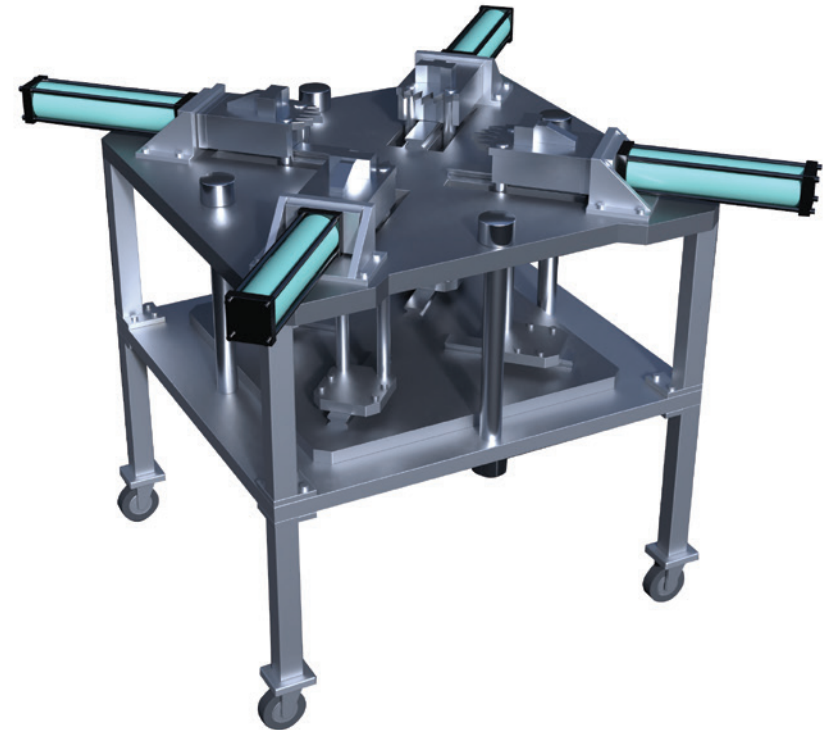
ECO 900A

MOTOR STATOR COPPER SEPERATOR

The ECO 900A model is designed to remove and separate copper windings from used electric motor stators and transformers. With its high motor power it can remove and separate copper windings efficiently and effortlessly. This model is suitable for motor stator sizes between 300 – 500mm.

### SPECIFICATIONS

Model	ECO-900A
Power (HP)	10
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	1500
Physical dimension (mm)	2000 x 2000 x 1600
Max motor size (mm)	300–500
Grabbing Cylinder Power (ton)	8
Pushing up Cylinder Power (ton)	15



## A) Electric Motor Stator Machine

ECF 800

CEILING FAN MOTOR RECYCLING MACHINE

The ECF 800 Recycling Machine is designed for processing Ceiling Fan motor stators ranging from 100 to 350mm in diameter.

### SPECIFICATIONS

Model	ECF 800
Power (HP)	5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	900
Physical dimension (mm)	1050 x 600 x 1970
Max motor size (mm)	100 – 350mm





## B) Cable Strippers

ECC 901

ELECTRIC WIRE CUTTER

The ECC 901 cuts electric cable/wires of up to 80mm in diameter.

### SPECIFICATIONS

Model	ECC-901
Hose Length (m)	8
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	100
Physical dimension (mm)	280 x 280 x 350
Cable Cutting Sizes	Up to 80mm



## B) Cable Strippers

ECS 800

WIRE/CABLE STRIPPER

The ECS 800 Wire Strpper is a versatile Cable Stripping machine which can strip a range of cable from 1mm to 80mm in diameter.

### SPECIFICATIONS

Model	ECS-800
Power (HP)	5
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	340
Physical dimension (mm)	720 x 600 x 1320
Cable Stripping Sizes (mm)	1 – 80



## B) Cable Strippers

ECS 900

ARMORED WIRE STRIPPER

The ECS 900 is a versatile Cable Stripping machine which can strip a range of cable of up to 200mm in diameter.

### SPECIFICATIONS

Model	ECS-900
Power (HP)	10
Voltage (V)	380 or 220 (3P, 60 Hz)
Weight (kg)	800
Physical dimension (mm)	900 x 1100 x 1400
Cable Cutting Sizes	Up to 200mm



## B) Cable Strippers

MSY-200

CABLE STRIPPING MACHINE

The MSY-200 Cable Stripping machine that can strip a range of cable from 30mm to 150mm diameter. This Cable Stripper is designed for medium to high efficiency, processing up to 20 metres per minute.

### SPECIFICATIONS

Model	MSY-200
Power (kW)	11
Voltage (V)	380
Weight (kg)	1350
Physical dimension (mm)	1620 x 1000 x 1700
Cable Stripping Sizes (mm)	Up to 80mm
Processing Speed	20m/min



## C) Cable Granulators

JAG 300

WIRE GRANULATOR (ASCR CABLES)

The JAG 300 Wire Granulator is used for efficiently chopping and granulating ASCR (Aluminium conductor steel-reinforced) cables with the processing capacity of 5 – 10 ton per workday (8 hours).

### SPECIFICATIONS

ITEM	MOTOR	DIMENSIONS
ACSR Chopper	50HP	1500 x 1200 x 1300
Belt Conveyor	1HP	700 x 2000
Magnet Conveyor	1HP	400 x 1500

ACSR Wire Size	8–28mm
Daily Capacity (8 hours)	5–10 ton





## C) Cable Granulators

### CG-400 Cable Granulator

The CG-400 cable granulator is designed to reduce labour costs, increase copper recovery rates, improving production efficiency. The production line is designed to be environmentally friendly and cost effective. It is ideal for cable recycling businesses.

The CG model cable granulator (cable recycling production line) can recycle waste cables by methods of crushing, gravity, vibration and magnetic separation. This process separates plastic and copper, iron etc with a recovery rate of up to 99%. This machine operates in a closed structure and utilises an additional dust removal system, ensuring minimal loss of material and dust emissions.



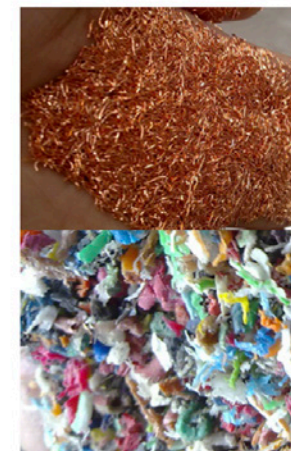
- A stable and safe design, it is easy to operate, with simple installation and set up.
- It can be operated by just one person, lowering labour costs.
- This machine features a high precision sorting system with frequency control. The sorting rate is up to 99%.
- The crushing system features high intensity staggered blades made of alloy steel ensuring a durable, long life.
- The closed design of this equipment ensures material loss is minimised.
- The granulators additional air filter system effectively controls dust emissions.

No.	Name	Model No.	Quantity	Power (kw)
1	Crusher	FSJ - 400	1 pc	18.5
2	Feeding Blower	FJ - 11	1 pc	1.1
3	Absorb blower	FJ - 22	1 pc	2.2
4	Gravity separator	BZF - 87	1 pc	2.56
5	Plastic vibrating screen	ZDS - 80	1 pc	0.36
6	Dust collector	CCQ - 820	1 pc	
7	Dust exhausting fan	FJ - 22	1 pc	2.2
8	Air pipes		1 pc	
9	Control cabinet		1 pc	

Before processing



After processing



## D) Scrap Metal Recycling

DCR 800

DRUM AND CAN CRUSHER

The DCR 800 Drum and Can Crusher is used for crushing aluminum cans, 4L paint cans and 200L drums

### SPECIFICATIONS

Model	DCR 800
Power (HP)	10
Voltage (V)	380 or 220V
Weight (kg)	1000
Dimension (mm)	900 x 1400 x 2200
Bale room size (mm)	600 x 600 x 1000
Pressing Power (ton)	30
Discharging Power (ton)	10



## D) Scrap Metal Recycling

ERP 900

AUTOMATIC COMPRESSOR CUTTER

The ERP 900 machine efficiently cuts compressor casings off any old fridge compressors ranging from 100 – 200mm in diameter.

### SPECIFICATIONS

Model	ERP 900
Power (HP)	2 (2x Motor Power)
Voltage (V)	220 (3P, 60 Hz)
Weight (kg)	1000
Physical dimension (mm)	1000 x 1600 x 1650
Cutting Time (Sec)	60-120
Daily Cutting Capacity	300-400
Cutting Size (mm)	250 (optional 330)



## D)Scrap Metal Recycling

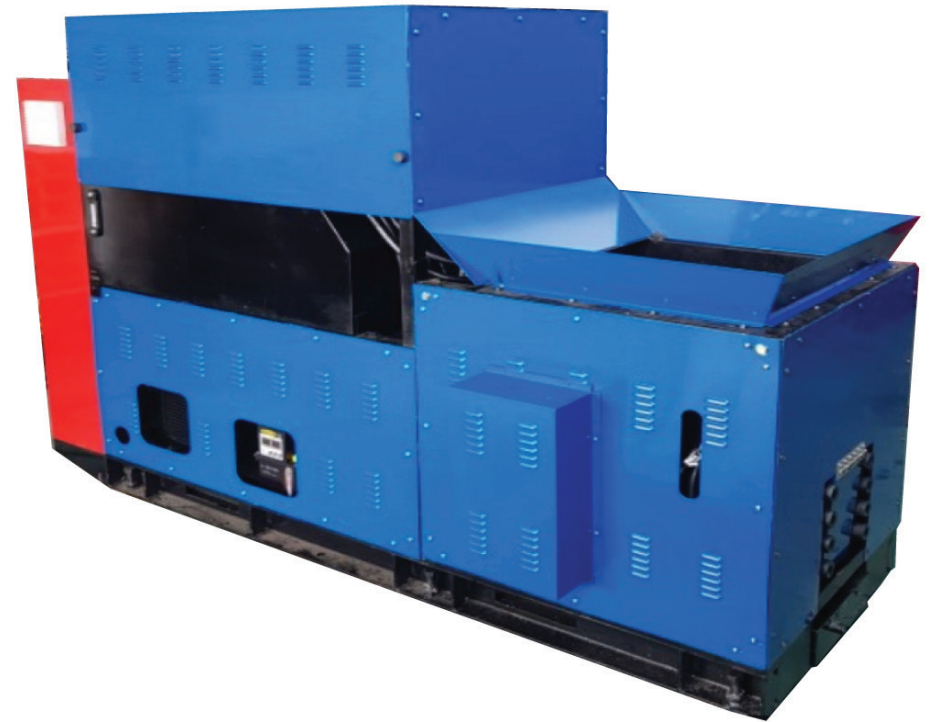
HCC-150A

BRIQUETTE MACHINE

The HCC-150A Briquette Machine is designed for converting granulated metal into 80mm sized briquettes.

### SPECIFICATIONS

Model	HCC-150A
Power (HP)	15
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	2200
Feeding Hopper Size (mm)	800 x 800
One Cycle (seconds)	35-45
Max Chip Size (mm)	150
Briquette Size (mm)	80





## D)Scrap Metal Recyling

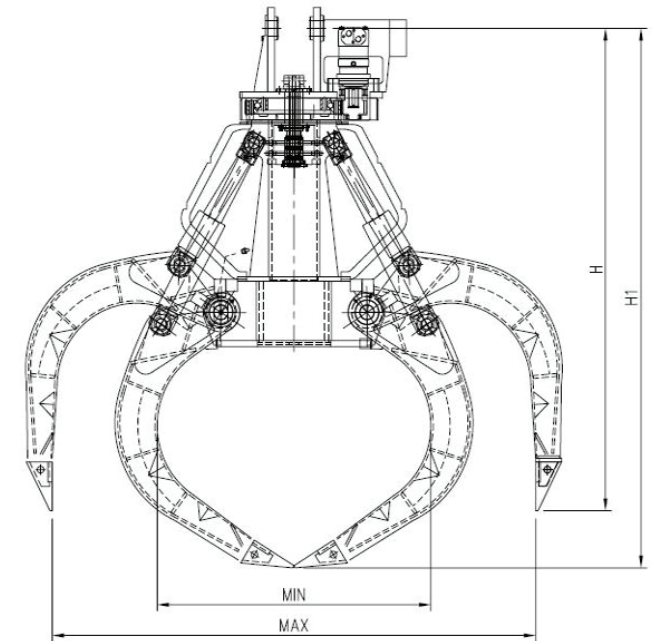
### JSB SERIES

#### ORANGE PEEL GRAPPLE

The Orange Peel Grapple is designed for loading and unloading scrap metal and industrial waste. It features a full 360 degree hydraulic rotation (clockwise and anticlockwise). There are five different models available (JSB500, JSB600, JSB700, JSB800, JSB1000).

#### SPECIFICATIONS

Model	JSB500	JSB600	JSB700	JSB800	JSB1000
Capacity (m3)	0.6	0.8	1	1.5	2
Capacity (liter)	600	800	1000	1500	2000
Operating Weight(kg)	980	1300	1500	1800	2100
Min (mm)	849	969	1192	1315	1705
Max (mm)	1859	1939	2013	2403	2699
H (mm)	1550	1674	1969	2107	2673
H1 (mm)	1850	1970	2203	2381	2939





## D)Scrap Metal Recycling

### JKM SERIES

#### ELECTRO MAGNET (EXCAVATOR ATTACHMENT)

The strong Electro Magnet excavator attachment is designed for lifting and unloading scrap metal. There are five different models available depending on the size and weight of your excavator:



#### SPECIFICATIONS

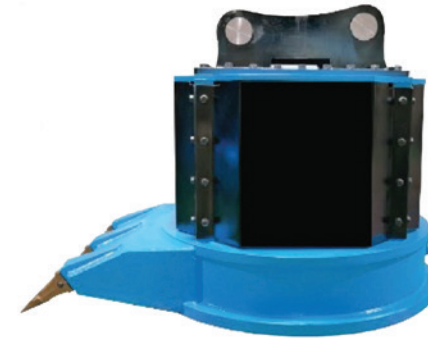
Model	JKM 100	JKM 110	JKM 120	JKM 130	JKM135
Weight (KG)	900	1100	1300	1500	1650
Dimensions (D x H mm)	1000 x 255	1100 x 255	1200 x 255	1300 x 255	1350 x 255
Operating Weight (kg)	980	1300	1500	1800	2100
Lifting Capacity					
Steel Sheet	12000	14000	16000	19000	21000
Ignot	400	600	1000	1200	1400
Suitable excavator (ton)	13-20	21-26	27-32	33-40	40-50

## D)Scrap Metal Recycling

### HKM SERIES

#### HYDRAULIC MAGNET (EXCAVATOR ATTACHMENT)

The Hydraulic Magnet excavator attachment is designed for lifting and unloading scrap metal. It features a hydraulic motor, generator, control units and a sorting claw. There are four different models available:



### SPECIFICATIONS

Model	HKM 120	HKM 140	HKM160	HKM180
Weight (KG)	1600	1900	2500	3500
Dimensions (D x H mm)	1050 x 267	1200 x 267	1430 x 267	1600 x 267
Lifting Capacity				
Steel Sheet	12000	16000	20000	25000
Ignot	600	1000	1300	1600
Scrap	400	600	800	1000

### POWER SPECIFICATIONS

Generator	AC 220V, 10.5KW
Controller (on/off)	AC 220V, 12KW
Motor	12KW

## E) General Waste Recycling

RS 805

ROLL & REEL SPLITTER

The RS 805 Roll & Reel Splitter is a multi-purpose splitter which can efficiently cut paper, clothes, leather, plastics and rolls.

### SPECIFICATIONS

Model	RS 805
Power (HP)	7.5
Voltage (V)	380 (3P, 60 Hz)
Weight (kg)	2400
Dimension (mm)	2000 x 1500 x 2500
Baling Power (cutting power)	25 Ton



## E) General Waste Recycling

MS 32MR

WASTE TIRE CUTTER

The MS 32MR Waste Cutter is designed to cut tires and other general waste material. Attaches to your excavator for operation.

### SPECIFICATIONS

Model MS 32 MR

Weight (kg) 2400

Operating Pressure (bar) 320

A (mm) 810

B (mm) 2616

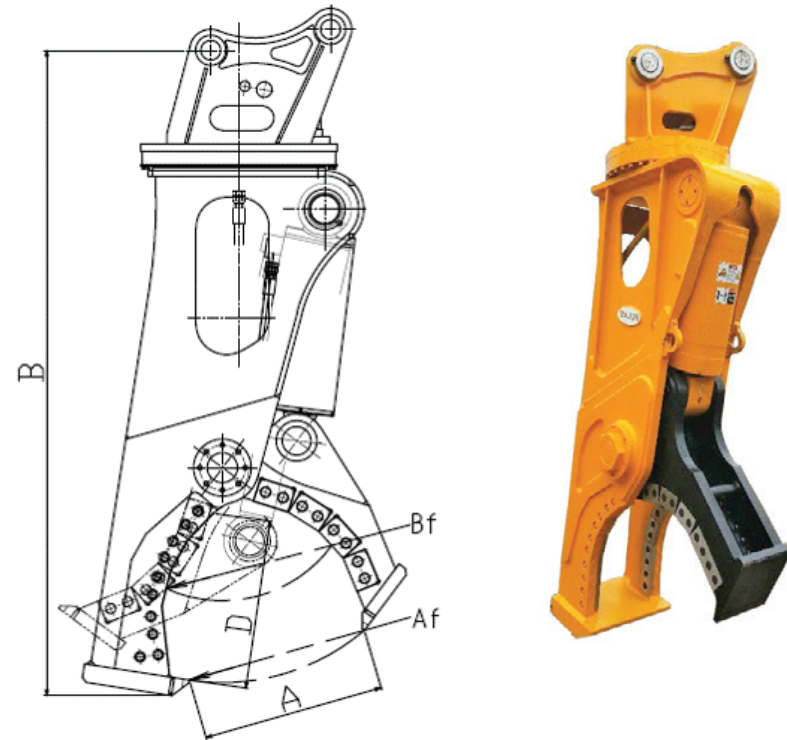
C (mm) 350

D (mm) 642

Cutting Force AF (Kn) 560

Cutting Force BF (Kn) 910

Cutting force BF(Kn): 910



## E) General Waste Recycling

### SZ SERIES TWO SHAFT SHREDDER

MODEL	BLADE DIAMETER (MM)	MAIN SHAFT SPEED (RPM)	BLADE THICKNESS (MM)	BLADE QUANTITY (PCS)	CUTTING CHAMBER (MM)	MOTOR POWER (KM)	DIMENSIONS (MM)	DISCHARGE HEIGHT (MM)
SZ6060	290	15-25	25	24	600*600	18.5	2200*1400*2000	900
SZ6580	320	15-25	40	20	650*800	22	2450*1550*2100	1000
MODEL	BLADE DIAMETER (MM)	MAIN SHAFT SPEED (RPM)	BLADE THICKNESS (MM)	BLADE QUANTITY (PCS)	CUTTING CHAMBER (MM)	MOTOR POWER (KM)	DIMENSIONS (MM)	DISCHARGE HEIGHT (MM)
SZ80100	430	10-15	50	20	800*1000	30+30	3100*1650*2500	1100
SZ80120	430	10-15	50	24	800*1200	37+37	3350*1650*2500	1100
SZ100140	510	10-15	50	28	1000*1400	45+45	4420*1800*3260	1350
SZ100160	510	10-15	50	32	1000*1600	55+55	4620*1800*3260	1350
MODEL	BLADE DIAMETER (MM)	MAIN SHAFT SPEED (RPM)	BLADE THICKNESS (MM)	BLADE QUANTITY (PCS)	CUTTING CHAMBER (MM)	MOTOR POWER (KM)	DIMENSIONS (MM)	DISCHARGE HEIGHT (MM)
SZ130160	650	8-15	50	32	1300*1600	75+75	5000*2100*3500	1600
SZ160180	800	5-10	75	24	1600*1800	90+90	5500*2250*3800	1800
SZ160210	800	5-10	100	21	1600*2100	110+110	5800*2250*3800	1800
SZ200250	980	3-10	150	17	2000*2500	200+200	7800*3000*4200	2100
SZ200300	980	3-10	200	15	2000*3000	250+250	8500*3000*4200	2100

The Sz Series two shaft shredder has the advantage of a large torque cutting technology which can meet various recycling requirements. It can be used for shredding large and hard material such as:

- vehicle crust
- tires
- metal drums
- waste aluminum
- steel
- industrial garbage
- household waste





## E) General Waste Recycling

### FZ SERIES FOUR SHAFT SHREDDER

The Sz Series two shaft shredder has the advantage of a large torque cutting technology which can meet various recycling requirements. It can be used for shredding large and hard material such as:

- vehicle crust
- tires
- metal drums
- waste aluminum
- steel
- industrial garbage
- household waste

MODEL	BLADE DIAMETER (MM)	MAIN SHAFT SPEED ( RPM)	BLADE THICKNESS (MM)	BLADE QUANTITY (PCS)	CUTTING CHAMBER (MM)	MOTOR POWER (KM)	DIMENSIONS (MM)	DISCHARGE HEIGHT (MM)	WEIGHT
FZ9080	290	15-25	25	32	900*800	18.5*2	2300*1500*2500	1050	4300
FZ90100	290	15-25	25	40	900*1000	18.5*2	2300*1550*2500	1050	4700
FZ100100	320	15-25	40	25	1000*1000	22*2	2900*1700*2800	1100	6300
FZ100120	320	15-25	40	30	1000*1200	22*2	3100*1700*2800	1100	6800
FZ100140	320	15-25	40	35	1000*1400	22*2	3300*1700*2800	1100	7300

MODEL	BLADE DIAMETER (MM)	MAIN SHAFT SPEED ( RPM)	BLADE THICKNESS (MM)	BLADE QUANTITY (PCS)	CUTTING CHAMBER (MM)	MOTOR POWER (KM)	DIMENSIONS (MM)	DISCHARGE HEIGHT (MM)	WEIGHT
FZ9080	290	15-25	25	32	900*800	18.5*2	2300*1500*2500	1050	4300
FZ90100	290	15-25	25	40	900*1000	18.5*2	2300*1550*2500	1050	4700
FZ100100	320	15-25	40	25	1000*1000	22*2	2900*1700*2800	1100	6300
FZ100120	320	15-25	40	30	1000*1200	22*2	3100*1700*2800	1100	6800
FZ100140	320	15-25	40	35	1000*1400	22*2	3300*1700*2800	1100	7300

## E) General Waste Recycling

### DZ SERIES SINGLE SHAFT SHREDDER

The DZ Series single shaft shredder is a crushing machine made with perfect design. It has the ability to shred various waste materials such as:

- plastic block
- pipe
- film
- cable
- wood
- paper



SPECIFICATIONS							
Model	DZ650	DZ900	DZ1100	DZ1400	DZ1600	DZ2100	DZ2500
Rotation diameter (mm)	240	400	400	400	480	480	560
Main Shaft rev (rpm)	73	73	73	73	73	73	90
Pushing Chamber Route (mm)	520	820	820	820	1000	1000	1200
Number of Rotor Blades	2/4	3/6	4/8	5/10	6/12	8/16	10/20
Cutting Chamber (mm)	550*650	840*900	840*1130	840*1360	1020*1600	1020*2050	1220*2510
Screen Diameter (mm)	15-40	25-60	25-60	25-60	40-80	40-80	40-80
Motor Power (Kw)	22	55	75	90	55*2	75*2	110*2
Dimension (mm)	1800*1300*1750	2700*1950*2150	2700*2300*2150	2700*2600*2150	3300*4200*2800	3300*4800*2800	3600*5000*3200
Feed Port Dimension (mm)	850*110	1250*1300	1250*1500	1250*1700	1500*2000	1500*2500	1500*3000
Discharge Height (mm)	550	810	810	810	1000	1000	1000
Weight (Kg)	1750	4800	5400	6300	10500	13000	21000