INTELLIGENT EDGE

Powering Coherence

Intelligent Edge Brings a Wide range of solutions

Scrap Processing
Scrap Sorting
Material Handling
ELV Dismantling

SOLUTIONS FOR RECYCLING

ABOUT US

Intelligent Edge brings the experience of innovative solutions with strong project execution expertise to help you solve your metal recycling and air pollution challenges.

We have decades of experience in Turnkey project execution. Our team has helped various multinational organizations by assisting them in improving efficiencies while integrating with business goals across multiple countries.

We take pride in being a growth catalyst for our partners (customers and suppliers). We believe maximum value can only be derived through simple and reliable solutions. The core of solutions comes from our understanding of the various processes on the floor.

Today we provide turnkey solutions in **Recycling and Air Pollution Control** with our pioneering Dust Collection System and Scrap Processing Equipments. The core of all our solutions is sustainable growth for the Recycling Industry.

INDEX

- **RECYCLING SOLUTIONS** ..... Page 4
  - Scrap Processing
  - Material Handling
  - ELV Dismantling
  - Non Ferrous Sorting
- **SHREDDING SYSTEM** ..... Page 5-7
  - Scrap Metal Shredder Production Line
  - Pre-shredder
- **SHEARING SYSTEM** ..... Page 8-14
  - Straight Bed Shear/Gantry Shear
  - Container Shear
  - Baler Shear
  - Alligator Shear
  - Tiger Head Shear
  - Container Shear
  - Tiger Head Shear
  - Scrap Car Shear
- **BALING SYSTEMS** ..... Page 15-19
  - Flipout Baler
  - Pushout Baler
  - Front Pushout Baler
  - Manual Discharge
  - Continuos Baler
- **BRIQUETTING SYSTEM** ..... Page 20-22
  - Vertical Briquetting System
  - Horizontal Briquetting System
- **WHY CHOOSE US** ..... Page 23

Our Partner

华宏科技
HUAHONG TECHNOLOGY

RECYCLING SOLUTIONS
FOR IMPROVING EFFICIENCY

We help metal recyclers to efficiently prepare the raw material thus adding value to the scrap and further improving efficiencies in the downstream metal manufacturing processes.

We can provide a Turnkey solution for scrap yards of any size with our in-house design, engineering, and project execution expertise. We are in a position to handhold scrapyard owners to create additional value for the Metal Recycling Industry.

SCRAP PROCESSING

Our Scrap Processing Solutions are aimed at improving the efficiency In the entire metal recycling value chain. We have a range of solutions that are designed to process various kinds of scrap. Our teams first step is to discuss the yard's business needs to arrive at a suitable solution.

All our machines are manufactured based on the requirements of customers **flexibility and reliability** of our solutions are key pillars for our success and long-term value.

MATERIAL HANDLING

We at Intelligent Edge provide solutions to manage the yard efficiently through our material handling solutions. We provide material handlers based on the requirements of the scrap yards and the scrap processing techniques they need to follow.

We understand the needs of the scrap yards and work with our design team to suggest a suitable solution considering the Critical Equipments required for the complete processing and shipping of the scrap metal. Our material handlers are designed to work in the extreme conditions prevalent in the scrap yards with high amounts of heat and dust.

ELV DISMANTLING

We help our customers complete the journey of setting up the scrap car dismantling and processing facility. We, along with our partners, bring capabilities to take turnkey projects and handhold you through the journey from design to execution to final commissioning of the facility.

Scrap vehicle dismantling and processing may seem like a simple process, but at every step, there are efficiencies to be built.

NON FERROUS SORTING

The waste of the shredding systems contains various Non-Ferrous Metals and Non-Metals which can be separated using various technologies. A typical solution is a mixture of multiple technologies based on the composition of the incoming material and the type of material that requires separation.

We at Intelligent Edge understand in depth the material that needs to separate along with the effective technologies that sort these metals and non-metals. We have partnered with multiple organizations to supply a turnkey solution for your material sorting needs.

MACHINES
SHREDDING SYSTEM

A shredding system or Shredder or Hammer Mill Shredder is a large scrap processing equipment that has the capability to deliver clean ferrous scrap, which is contamination-free and results in a very high melting rate in the furnaces. Shredding systems can be used for various kinds of scrap raw materials. We have the capability to provide solutions up to 150 Tons Per Hour.

SCRAP METAL SHREDDER PRODUCTION LINE

PRE-SHREDDER

1. SCRAP METAL SHREDDER PRODUCTION LINE

Scrap Metal Shredder is a very versatile equipment designed to provide clean and contamination free Scrap metal of high density which is molten to manufacture fresh Metals.

The Hammer Mill Shredder is designed to shred various kinds of scrap types.

Scrap Metal Shredder Production Line are suitable for scrapped car shell, low-carbon light and thin scrap steel or bale, waste household appliances, etc. are passed through the shredder system to remove impurities such as paint, dust and other impurities. Through the sorting system the ferrous metal, non-ferrous metal and non-metal are separated. The shredded steel is prepared with bulk density of about 1.0-1.8t/m³.

Features

1. Meets the Best environmental standards in the world
2. Equipped with cooling spray, dust removal, noise reduction and other systems to meet the environmental protection requirements of the project
3. All-round video monitoring system
4. Automatic integrated control system
5. Remote operation and maintenance system
6. Designed for easier Maintenance
7. 99% Clean MS Scrap
8. Integration of a Non-Ferrous sorting system
9. High density scrap output

Scrap Metal Shredder Production Line Technical Parameters

Ferrous Metals & Scrap Aluminum

Model	Ferrous Metals Capacity (t/h)	Scrap Aluminum Capacity (t/h)	Scrap Alloy Aluminum Capacity (t/h)	Main Motor Power (kW/HP)
PSX270	-	1.5 - 2	3 - 5	200 (270)
PSX600	6 - 10	5 - 6	10 - 15	450 (600)
PSX800	8 - 12	5 - 8.5	15 - 20	600 (800)
PSX1200	20 - 30	7 - 10	20 - 30	900 (1200)
PSX1600	25 - 35	8 - 12	25 - 35	1200 (1600)
PSX1600	25 - 35	12 - 15	30 - 35	1200 (1600)
PSX2000	30 - 60	15 - 25	35 - 65	1500 (2000)
PSX3000	55 - 85	28 - 40	60 - 85	2250 (3000)
PSX4000	75 - 100	-	-	3000 (4000)
PSX6000	100 - 160	-	-	4500 (6000)
PSX8000	150 - 200	-	-	6000 (8000)
PSX10000	250 - 350	-	-	8000 (10800)

Note: The Parameters Vary Based on Raw Material and Finished Product Requirements. This is for Reference Only.
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2. PRE-SHREDDER

Scrap Metal Pre-shredder are suitable for the pre-shredding treatment of car shells and metal bales. The bales are torn into small pieces or strips, and then transported to the scrap steel shredder line for final shredding.

Features

1. Double hydraulic motor drive, low noise, adjustable working force, simple and safe operation
2. Heavy duty steel structure for robustness
3. Mechanical, electrical, and hydraulic integrated control is easy to learn, intuitive, and convenient to operate
4. Remote operations and Maintenance system
5. Operator Free Operations

YSJ Series Scrap Metal Pre Shredder Technical Parameters

Model	Effective Working Width (mm)	Capacity (t/h)	Main Motor Power (kW)
YSJ220 - 220	2200	12 - 20	2 X 100
YSJ220 - 440	2200	20 - 40	4 X 110
YSJ220 - 640	2200	45 - 55	4 X 160

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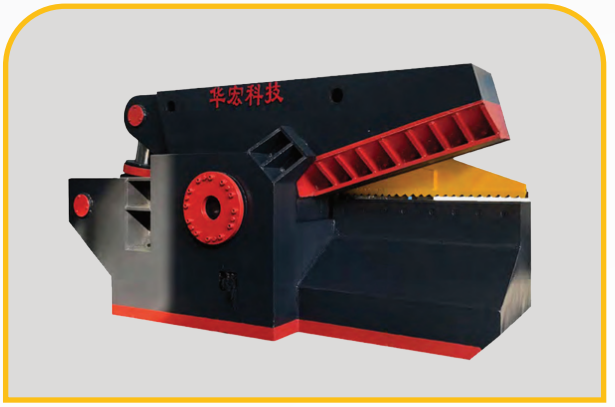
SHEARING SYSTEM

These systems are designed to cut the scrap to a smaller size. This is done to increase the density, workability, and meltability of the scrap metals which cannot be fed directly to the furnace or are too large to enter the furnace.

STRAIGHT BED SHEAR/ GANTRY SHEAR

CONTAINER SHEAR

BALER SHEAR



ALLIGATOR SHEAR

TIGER HEAD SHEAR

SCRAP CAR SHEAR

1. STRAIGHT BED SHEAR / GANTRY SHEAR

Heavy-duty Scrap Shears is a large scrap processing equipment which has been designed to cut various types of scraps like LMS, HNS, structural scrap and other mixed heavy scrap. This machine is designed to have high structural strength for long life.

This machine has been popular for its versatility to cut multiple kinds of scrap metal into desired size.

Features

1. Wide Press Box
2. Suitable for Multiple varieties of Scrap
3. High compression after Shearing, side compression an option for Higher compression
4. PLC operations, automated controls, remote operations. Automatic operator less operations
5. Large flow logic values with independent filtering and cooling for higher reliability of the hydraulic system
6. Low electricity consumption per ton of steel processed
7. Automatic Rubrication
8. Sensors for movement automation

Wide Open Press Box Technical Specifications

Model	Max. Cutting Force (ton)	Press Box Size (L×W×H/mm)	Cutting Width (mm)	Production Rate (t/h)
Q91Y-500Q	500	6000×1600×650	1600	8 - 12
Q91Y-500M	500	6000×1600×650	1600	8 - 12
Q91Y-630H	630	7000×1600×650	1600	9 - 13
Q91Y-630W	630	8000×1800×900	1800	10 - 15
Q91Y-800W	800	8000×2000×900	2000	15 - 20
Q91Y-1000W	1000	8000×2000×1000	2000	20 - 25
Q91Y-1250W	1250	8000×2000×1200	2000	24 - 30
Q91Y-1350W	1350	8000×2500×1100	2500	27 - 32
Q91Y-1600W	1600	8000×2000×1200	2000	28 - 35
Q91Y-2000W	2000	8000×2000×1400	2000	30 - 40

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2. CONTAINER SHEAR

Container Shear Machines are suitable for cold shearing of light and thin materials (such as colour steel tiles, channel steel, steel plates, etc.) with various cross-section shapes to make them meet the requirements. This machine is suitable for small scrap yards, where the scrap is long and mixed and the quantities are not very high.

Features

1. Single Unit Machines. Easy to Move Around from one Yard to other
2. High-security remote control
3. High Shearing efficiency with continuous operations
4. Can be installed on any hardened and levelled surface for operations. No need of foundation

QW Series Container Shear Machine Technical Parameters

Model	Max.Shear Force (ton)	Cutting Width (mm)	Inlet Size (mm)	Max. Cutting Range (mm)	Main Motor Power (kW)
QW-630	630	1400	2000×1400	Square Steel 100×100 Round Steel 140	3×45
QW-800	800	1600	2200×1600	Square Steel 130×130 Round Steel 160	4×45
QW-1000	1000	1600	2200×1600	Square Steel 150×150 Round Steel 170	5×45
QW-1250	1250	1800	2200×1800	Square Steel 180x180 Round Steel 200	3×90

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3. BALER SHEAR

Heavy-duty Scrap Shears are suitable for compress low-carbon light and thin scrap steel, scrap car shells, light metal structural parts, etc. into high-tight bales, and then shearing them into qualified charge that meets the smelting requirements of steel mills. A complete production line can be formed with the feeding and grasping machine or electromagnetic sucker, discharge conveycenteracking rotary conveyor, etc.

Features

1. Integrates high compression and shearing functions
2. Suitable for light Scrap, scrap vehicle shells, and mixed light scrap
3. High compression after Shearing, side compression an option for Higher compression
4. PLC operations, automated controls, remote operations. Automatic operator less operations
5. Large flow logic values with independent filtering and cooling for higher reliability of the hydraulic system
6. Low electricity consumption per ton of steel processed
7. Automatic Rubrication
8. Sensors for movement automation

Double Press Box Technical Specifications

Model	Max. Cutting Force (ton)	Press Box Size (L×W×H/mm)	Cutting Width (mm)	Production Rate (t/h)
Q91Y-500	500	5000 x 2000 x 1100	800	10 - 13
Q91Y-630	630	6000 x 2200 x 1500	900	12 - 15
Q91Y-800	800	6000 x 2200 x 1500	900	15 - 18
Q91Y-1000	1000	7000 x 2500 x 1800	1000	18 - 22
Q91Y-1250	1250	7000 x 2500 x 1800	1000	20 - 25

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4. ALLIGATOR SHEAR

Hydraulic Alligator Shears are suitable for cold cutting of metal profiles and metal structures with various cross-sectional shapes, and processed to qualified charge. Applicable to the steel industry, nonferrous metals industry, scrap processing and distribution center (base) and renewable resources processing enterprises, scrap car dismantling enterprises.

Features

1. Small machine suitable for small operations
2. Adopt mechanical, electrical, and hydraulic integrated control, can be started and stopped at any location, which is easy to realize overload protection. It can be equipped with diesel engine as backup power supply
3. Single and continuous cutting
4. Equipment installation without foot bolts fixed to facilitate layout adjustment
5. Very Suitable for long scrap like rods, pipes,and structural steel

Q43 Series Hydraulic Alligator Shears

Model	Blade Length (mm)	Max.Cutting Size Square Steel/Round Steel (mm)	Main Motor Power (kW)
Q43-1200	120	50×50/Φ055	7.5
Q43-1600	160	55×55/Φ063	15
Q43-2000	200	65×65/Φ070	18.5
Q43-2500	250	70×70/Φ080	22
Q43-3150	315	75×75/Φ085	2 × 15
Q43-4000	400	90×90/Φ100	2 × 18.5
Q43-5000	500	100×100/Φ110	2 × 22
Q43-6000	600	110×110/Φ120	2 × 30

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5. TIGER HEAD SHEAR

Tiger-head Shearing Machine cold cutting of metal profiles and metal structures with various cross-sectional shapes, and processed to qualified charge. Applicable to the steel industry, nonferrous metals industry, scrap processing and distribution centre (base) and, renewable resources processing enterprises, and scrap car dismantling enterprises.

Features

1. Adopt mechanical, electrical, and hydraulic integrated control that can be started and stopped at any position, which makes it easy to realize overload protection
2. 2. Single and continuous cutting can be selected as required
3. PLC control, reliable performance

Q45 Series Tiger Shears

Model	Blade Length (mm)	Max.Cutting Size Square Steel/Round Steel (mm)	Main Motor Power (kW)
Q45-2000	200	65×65/Φ070	18.5
Q45-2500	250	70×70/Φ080	22
Q45-3150	315	75×75/Φ085	2 × 15
Q45-4000	400	90×90/Φ100	2 × 18.5
Q45-5000	500	100×100/Φ110	2 × 22
Q45-6000	600	110×110/Φ120	2 × 30

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6. SCRAP CAR SHEAR

Suitable for shearing and baling of automobile shell and large container material. The pressed mass is suitable for shredding by scrap shredder line or that can also be baled for transportation to shredder system.

Features

1. Adopt hydraulic control, easy to achieve overload protection
2. Running smoothly, just a simple device basis

Q43 II Series Double - Edged Hydraulic Alligator Shears Technical Parameters

Model	Max. Cutting Force (ton)	Blade Length (mm)	Press Box Size (L×W×H/mm)	Bale Size (WxH/mm)	Main Motor Power (kW)
Q43II-2500	250	2020	2020×600×600	600×400	2 × 17.5
Q43II-3150	315	2500	2500×800×900	800×600	45
Q43II-4000	400	2500	2500×800×900	800×600	55
Q43II-5000	500	2500	2500×800×900	800×600	55

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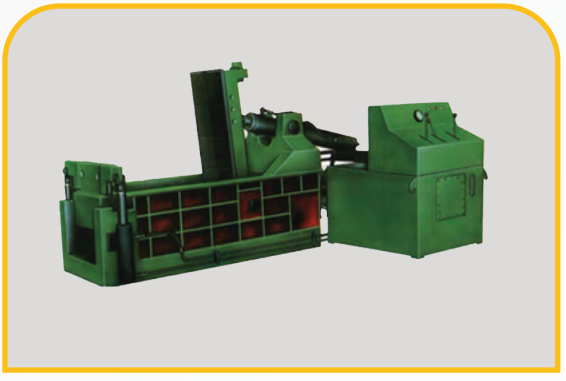
BALING SYSTEMS

Baling Systems are hydraulic compactors which are used for compression various kinds of metals and non-metals to a predefined shape and size. Our baling systems are designed to meet the tough requirements of recycling yards where the machine needs to prepare the material round the clock. We try to meet these requirements through robust engineering, high quality materials and parts which is supported by industry leading manufacturing infrastructure.

FLIPOUT BALER

PUSHOUT BALER



FRONT PUSHOUT BALER

MANUAL DISCHARGE

CONTINUOS BALER

1. FLIPOUT BALER

Hydraulic scrap balers are applied in thickness less than 6mm steel mills, recycling plants, ferrous &non-ferrous smelting industry to press scrap metal (steel, copper, aluminum, stainless steel, discarded automobiles, etc) into acceptable furnace charges in shapes of cuboids, cylinders & octagons. Suitable for scrap processing and distribution center (base), scrap car dismantling and remanufacturing, steel and nonferrous metals industry etc.

Features

1. Hydraulic drive and PLC Control
2. Inclined Axial piston pumps for high reliability and high-density output
3. Operation with minimum Maintenance
4. Wear resistant lining Plates

2. PUSHOUT BALER

Pushout Balers are applied in thickness less than 6mm steel mills, recycling plants, ferrous &non-ferrous smelting industry to press scrap metal (steel, copper, aluminum, stainless steel, discarded automobiles, etc) into acceptable furnace charges in shapes of cuboids, cylinders & octagons. Suitable for scrap processing and distribution center (base), scrap car dismantling and remanufacturing, steel and nonferrous metals industry etc.

Features

1. Hydraulic drive and PLC Control
2. Inclined Axial piston pumps for high reliability and high-density output
3. Operation with minimum Maintenance
4. Wear resistant lining Plates

Y81/F Series of Filpout Baler/Pushout Technical Specifications

Model	Main Cyl. Force (ton)	Press Box Size (L×W×H/mm)	Bale Size (W×H/mm)	Motor (kW)
Y81/F - 125	125	1100×700×550	200×200	15
Y81/F - 160	160	1600×1000×800	400×400	22
Y81/F - 200	200	1600×1200×800	400×400	22+15
Y81/F - 250	250	2000×1400×900	500×500	2×22
Y81/F - 315	315	2500×2000×1200	600×600	2×45
Y81/F - 400	400	3500×3000×1300	600×600	3×45
Y81/F - 500	500	3000×2500×1300	700×700	3×45

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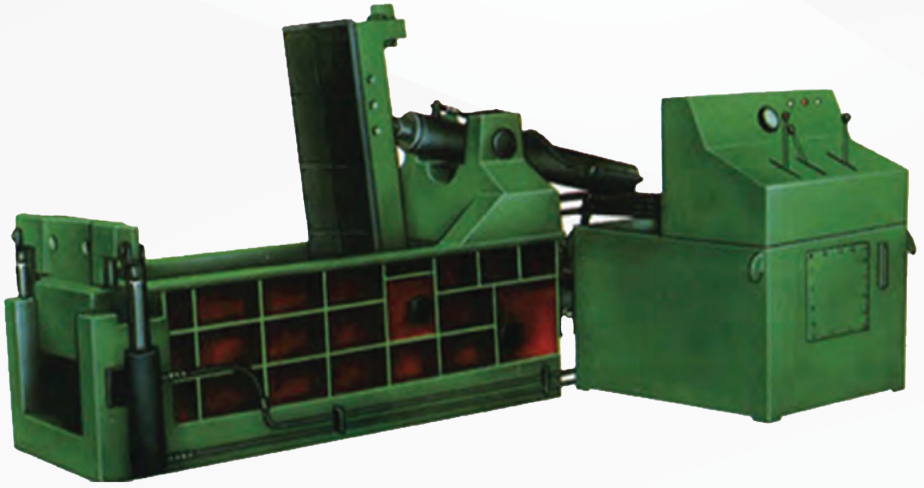
3. FRONT PUSHOUT BALER

Front Pushout Balers are applied in thickness less than 6mm steel mills, recycling plants, ferrous &non-ferrous smelting industry to press scrap metal (steel, copper, aluminum, stainless steel, discarded automobiles, etc) into acceptable furnace charges in shapes of cuboids, cylinders & octagons. Suitable for scrap processing and distribution center (base), scrap car dismantling and remanufacturing, steel and nonferrous metals industry etc.



Features

1. Hydraulic drive and PLC Control
2. Inclined Axial piston pumps for high reliability and high-density output
3. Operation with minimum Maintenance
4. Wear resistant lining Plates

Y81 Series of Hydraulic Scrap Baler Technical Specifications (Front Out and Front Turn Over Models)

Model	Main Cyl. Force(ton)	Press Box Size (L×W×H/mm)	Bale Size (W×H/mm)	Main Motor Power (kW)
Y81/Q - 135	135	1300×600×600	600×240	22
Y81/Q - 200	200	1400×700×600	700×280	22+15
Y81/Q - 160	160	1600×1000×800	300×300	37
Y81/Q - 200	200	1600×1000×800	260	37
Y81/Q - 250	250	2000×1750×900	400×400	2X30
Y81/Q - 315	315	3000×2500×1200	600×600	2X45

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4. MANUAL DISCHARGE

Manual Discharge Balers are applied in thickness less than 6mm steel mills, recycling plants, ferrous &non-ferrous smelting industry to press scrap metal (steel, copper, aluminum, stainless steel, discarded automobiles, etc) into acceptable furnace charges in shapes of cuboids, cylinders & octagons. Suitable for scrap processing and distribution center (base), scrap car dismantling and remanufacturing, steel and nonferrous metals industry etc.

Features

1. Hydraulic drive and PLC Control
2. Inclined Axial piston pumps for high reliability and high-density output
3. Operation with minimum Maintenance
4. Wear resistant lining Plates

Y81 Series of Hydraulic Scrap Baler Technical Specifications (Double Main Cylinder - Conventional Model)

Model	Main Cyl. Force (ton)	Press Box Size (L×W×H/mm)	Bale Size (W×H/mm)	Motor(kW)
Y81/K-315	315	3000 x 2500 x 1200	500 x 500/600 x 600	2 x 45
Y81/K-400	400	3000 x 2500 x 1200	500 x 500/600 x 600	2 x 55
Y81/K-500	500	3000 x 2500 x 1200	500 x 500	2 x 55
Y81/K-630	630	3000 x 2500 x 1200	500 x 500	2 x 55
Y81/K-800	800	3500 x 3000 x 1400	700 x 700	3 x 55/6 x 45
Y81/K-1000	1000	3500 x 3000 x 1400	600 x 600	3 x 55/6 x 45
Y81/K-1500	1500	4000 x 3000 x 1500	700 x 700	4 x 90

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5. CONTINUOS BALER

Balers are designed where The input size of the material is less variable and large quantities of material need to be baled. These balers are fast and have the capability to process large quantities of scrap metal continuously

Features

1. Completely Automated, PLC Base operations
2. High-density ballot put for better efficiencies
3. Remote Monitoring option for maintenance and trouble Shooting
4. Cutting blocks to cut extra Scrap
5. Option of fixed-weight bales in every cycle

Continuous Baler Specifications

Model	Main Cyl. Force (ton)	Press Box Size (L×W×H/mm)	Bale Size (W×H/mm)	Main Motor Power (kW)
Y81/Q - 160	160	1600×1000×800	300×300	45
Y81/Q - 200	200	1600×1000×800	260	45
Y81/Q - 250	250	2000×1750×900	400×400	60
Y81/K-315	315	3000 x 2500 x 1200	500 x 500/600 x 600	90
Y81/K-400	400	3000 x 2500 x 1200	500 x 500/600 x 600	110
Y81/K-500	500	3000 x 2500 x 1200	500 x 500	110
Y81/K-630	630	3000 x 2500 x 1200	500 x 500	165
Y81/K-800	800	3500 x 3000 x 1400	700 x 700	270
Y81/K-1000	1000	3500 x 3000 x 1400	600 x 600	270

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BRIQUETTING SYSTEM

Briquetting systems are high power hydraulic compression systems designed for processing turnings and boring to a very high-density briquette. These turnings and borings are like fluff and very difficult to handle and melt. With briquetting this material, the handling and melting of the borings become very easy. The briquetting machines have the capacity to compress the material by up to 40 times the density.

VERTICAL BRIQUETTING SYSTEM

HORIZONTAL BRIQUETTING SYSTEM

1. VERTICAL BRIQUETTING SYSTEM

Briquetting Press Machines are suitable for pressing metal scraps such as iron scraps, cast iron scraps, copper scraps, aluminum scraps, etc. with length < 80mm into round high-density bales, which are convenient for recycling and smelting.

Features

1. Hydraulic drive, high working efficiency, stable and vibration-free, safe and reliable
2. Stable movement, safe and reliable. Simple equipment foundation
3. PLC control, manual or automatic operation
4. Adopt our company's unique composite cylinder patent technology
5. Automatic discharge system, high production efficiency and easy operation

Y83 Series Briquetting Press Machine (Vertical) Technical Parameters

Model	Cylinder Pressure (ton)	Cavity Size (mm)	Briquetting Size (mm)	Capacity (t/h)	Main Motor Power (kW)
Y83-250	250	Φ110 x 180 Φ120 x 180	Φ110 × (50-70) Φ120 × (50-70)	0.6~0.8	22
Y83-315	315	Φ120 x 180 Φ140 x 180	Φ120 × (50-70) Φ140 × (50-70)	0.8~1.1	30
Y83-400	400	Φ140 × 300 Φ140 × 300	Φ140 × (70-100) Φ160 × (70-100)	1.3~1.6	37
Y83-500	500	Φ160 × 300 Φ180 × 300	Φ160 × (70-100) Φ180 × (70-100)	1.4~2.3	45
Y83-630	630	Φ180 × 400 Φ200 × 400	Φ180 × (100-140) Φ200 × (100-140)	2.8~3.5	2 x 37

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2. HORIZONTAL BRIQUETTING SYSTEM

Briquetting Press Machines are suitable for pressing metal scraps such as iron scraps, cast iron scraps, copper scraps, aluminum scraps, etc. with length < 80mm into round high-density bales, which are convenient for recycling and smelting.

Features

1. Hydraulic drive, high working efficiency, stable and vibration-free, safe and reliable
2. Stable movement, safe and reliable. Simple equipment foundation
3. PLC control, manual or automatic operation
4. Adopt our company's unique composite cylinder patent technology
5. Automatic discharge system, high production efficiency and easy operation

Y83 Series Briquetting Press Machine (Horizontal) Technical Parameters

Model	Cylinder Pressure (ton)	Cavity Size (mm)	Briquetting Size (mm)	Capacity (t/h)	Main Motor Power (kW)
Y83W-630	630	Φ160 x 550	Φ160 x (150-180)	2~2.5	2 x 45
Y83W-1250	1250	Φ300 x 700	Φ300 x (240-260)	10~12	2 x 160

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WHY CHOOSE US

- Cheaper in terms of Value, not Quality
- Capacity to handle Turnkey Industrial Projects
- Online/Live and On-site After Sales support
- Minimum Downtime and Maximum Uptime
- Low lead time and quick installation

Intelligent Edge started with a vision to help the Indian manufacturing industry achieve sustainability and improve efficiencies with mechanical and digital interventions. We bring world-class products and solutions backed by our experienced team of engineers and specialty contractors to support your sustainability endeavors.

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