

# Industrial Applications

## BRIQUETTER MODELS 250 / 600 / 1000

Compact, cost-efficient ARS industrial models provide impressive performance – up to 3,200 pounds of scrap per hour – with rugged features including:



- Integrated fluid collection and pumping system
- Steel belt take-away conveyors
- Heavy-duty frames
- Allen Bradley PLCs
- Parker valves and pumps
- Large-capacity hoppers

### SPECIFICATIONS

BRIQUETTER MODEL		RST 250	RST 600	RST 1000
Max Capacity (lbs/hr)*	Aluminum	250 (113 kg)	600 (272kg)	1000 (454 kg)
	Cast Iron/Steel	500 (227 kg)	1200 (545 kg)	2000 (453 kg)
	Brass/Copper	750 (340 kg)	1800 (816 kg)	3000 (1361 kg)
Briquette Size (diameter x length)		2.75" x 3"	2.75" x 3"	3.5" x 3.5"
Motor		10 hp	20 hp	40 hp
Main Cylinder Bore		8"	8"	10"
Max Face Pressure		30,500 psi	42,427 psi	40,744 psi
Total Force Available		91 tons	126 tons	196 tons
Max System Pressure		3,600 psi	5,000 psi	5,000 psi
Electrical (460 V 3-phase)		60 amp	60 amp	100 amp
Machine Weight (pounds)		4,200 (1905 kg)	5,000 (2358 kg)	8,500 (3855 kg)

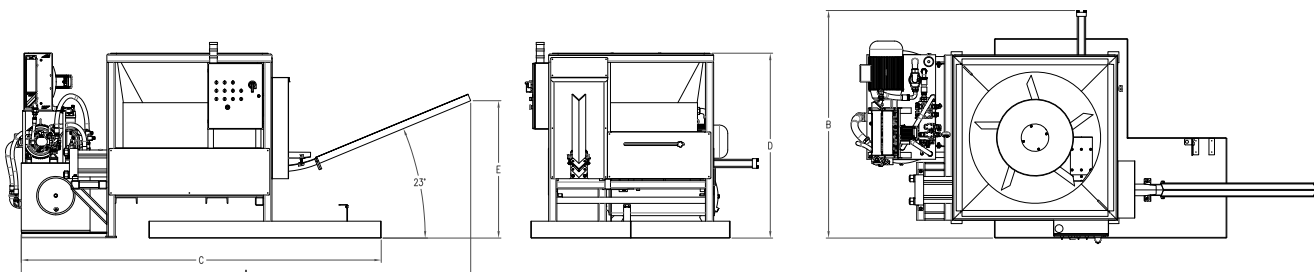
\* Production is based on an average input density. If the input density is lower the production will be lower than the throughput stated. Production numbers can be guaranteed if a sample is run.



Applied Recovery Systems, Inc. partners with Parker's Leak Free Certification Program to ensure customer satisfaction on any of the hydraulic parts supplied by Parker.

### DIMENSIONAL DATA

DIMENSION	250	600	1000
A	13'8"	13'8"	16'6"
B	6'1"	6'11"	6'9"
C	7'7"	7'7"	8'11"
D	5'7"	5'7"	5'10"
E	4'2"	4'2"	4'11"



## Make Scrap Pay!



Earn Larger Income From: • Turnings • Filings • Chips • Metallic Dust

### Options To Meet Your Needs

We make it easy to create the perfect Briquetter features. ARS offers optional features for specialized requirements including:

- Custom conveyors
- Swarf packages
- Shredders
- Screw augers
- Extended fluid collection pans
- Special agitators for hard-to-feed materials
- Custom-engineered systems
- Box dumpers
- Scales
- Fluid filtration systems
- Wringers

### World Wide Industries Served

Aerospace, Automotive, Military, Plumbing, Optical, Tool and Hardware Manufacturing, Scrap Yards, Brokers, and more!

### Total Customer Support

You can count on ARS for any additional support you need. We typically have every component in stock and qualified service personnel on hand to correct any problem. Plus, our strategic alliance with service organizations across the country provides maintenance in your area. No matter where you are, we're there for you!

\* Applied Recovery Systems disclaims any responsibility for errors that may be contained on this brochure as errors in information may occur and information may become dated.



# ARS Briquetting Systems



ARS BRIQUETTER MODEL RST 3000/4000



## Machines That Make Scrap Pay



# Convert Scrap Into Profit

ARS BRIQUETTERS transform ordinary industrial turnings, filings, chips, clippings—even metallic dust—into dense, economically processed briquettes that typically command prices much greater than non-compacted scrap. But increasing your profits is only part of the advantage. Briquetters can do considerably more in the bargain:

- Provide lower transportation costs
- Provide lower storage space requirements for scrap metal, increasing revenue-producing manufacturing floor space
- Facilitate in the removal and recovery of cutting fluids through intense pressure and compaction
- Reduce overall material handling cost by reducing labor/equipment usage
- Minimize the hazardous liability exposure associated with the transportation of loose turnings contaminated with cutting fluids
- Help to clean up and consolidate scrap metal handling areas in the shop, allowing for a clean presentation throughout.

Applied Recovery Systems can convert a manufacturing cost into a profit center. With several models in the lineup to choose from, there's a Recovery Systems Technology Briquetter matched to your needs.



## How To Make Scrap Pay

ARS Briquetters produce a product with an increased melt yield that translates into greater profits for all those handling the metal. From brokering through scrap dealers, to going directly to foundries and smelters, one can often times receive monetary increases up to 30% for briquettes.

An ARS Briquetter typically pays for itself in less than two years from scrap premiums and cutting fluids alone (depending on the type and volume of material processed). Thereafter, the income and cost-savings it generates go directly to the bottom line.

## We'll Show You How

We can determine if briquetting is right for you and your operation. Contact Applied Recovery Systems toll-free at **1-800-577-3766** for a free Customized Investment Evaluation and Analysis. It could prove to be one of the most profitable calls you'll ever make. Or, see it for yourself and log on to our website: [www.ars-inc.com](http://www.ars-inc.com) to fill out the evaluation form. There are many useful tools on the website as well so look around!

# ARS Advantages

## About Us

ARS Briquetters are manufactured in our 30,000 square foot facility located on 5.5 acres of land in Central Texas. It is a privately held corporation founded in 1992 and has grown at a rapid rate with a high performance product line called the **Recovery Systems Technology** Briquetters. Our customer service is unparalleled and our goal is to keep the company small enough to be accessible to its customers and large enough to provide outstanding product performance. Research and development will continue to be an integral part of the Corporation's objective so as to better serve the **chip processing** needs of its customers. We have grown our customer base to extend across the U.S. borders to areas in Mexico, Canada, Turkey, Venezuela, Brazil, Europe, India, Australia, South Africa, and China.

## Off-The-Shelf Components

The Briquetters are built with widely available components to include Allen Bradley PLC's, Parker Hannifin hydraulic pumps and valves, WEG Motors, and effector proximity switches. These readily available parts help to ensure ease of serviceability worldwide.

## Consistent Operation

Our Briquetters utilize an Allen Bradley PLC for reliable, automatic operation. Other PLC options available upon customer request. The processor helps to ensure a quality briquette every time even when the hopper is emptying or the chip density has changed.

## Flexible Feeding

ARS Briquetters can process a wide variety of densities without bridging, due to a 13" throat that's adjustable to 22 inches long. Additionally, our agitator wheel sweeps material into the compression chamber while our vertical press foot option presses the material down and keeps it down to ensure a full charge of material.

## A.R.S. Competitive Edge

Our top competitive edge is that we have more installations than any other manufacturer, demonstrating the better option for briquetting!

- **Average lead time: 7-9 weeks**
- **Free or low cost sampling**
- **Extensive training and support**
- **Our equipment is easy to maintain, operate, service, and clean!**
- **Competitive pricing without sacrificing quality**
- **24-48 hour response time for parts and service**
- **Parker Hannifin's triple-lock, zero leak program for all hydraulic plumbing, hoses, and fittings**
- **Allen Bradley or Siemens controls**
- **Red Lion touchscreen control panel (optional)**
- **Integral cutting fluid recapturing pan and pump**
- **Integral cutting fluid filtration system (optional)**
- **Robust machine with the smallest footprint in the industry**
- **In-stock items available in most cases for quick delivery**

## Lease Options

In some occasions, Applied Recovery Systems has offered lease options to help our customers secure an order. Please contact us for more information or to fill out a credit application.



ARS Briquetters are simple to operate. Employees require little training and become proficient in minimal time.



A sturdy frame of heavy-wall structural tubing protects the hopper from damage when loading. Shown with optional touch screen panel.

# Foundry Applications

## BRIQUETTER MODELS 1500 / 2000 / 2500 / 3000 / 4000

High-production ARS foundry units deliver both the flexibility to process a wide range of different metals and the capacity to meet demanding throughput requirements. In addition to standard ARS features, Foundry Models offer:

- Horsepower controlled variable displacement pumps to boost energy efficiency
- Parker Hannifin valve blocks with poppets to minimize hydraulic shock
- A 14-inch or 16 inch main cylinder for maximum compression
- Optional tooling size on all briquetters for increased face pressure
- Control diagnostics



## SPECIFICATIONS

Briquetter Model*	RST 1500	RST 2000	RST 2500	RST 3000	RST 4000
Max Capacity (lbs/hr)	1500 (680 kg)	2000 (907 kg)	2500 (1134 kg)	3000 (1361 kg)	4000 (1814 kg)
Aluminum	3000 (1361 kg)	4000 (1814 kg)	5000 (2268 kg)	6000 (2721 kg)	8000 (3628 kg)
Cast Iron/Steel	3000 (1361 kg)	4000 (1814 kg)	5000 (2268 kg)	6000 (2721 kg)	8000 (3628 kg)
Brass/Copper	4500 (2041 kg)	6000 (2721 kg)	7500 (3402 kg)	8500 (3856 kg)	11000 (4990 kg)
Briquette Size (diameter x length)	4.5" x 4.5"	4.5" x 4.5"	4.5" x 4.5"	5" x 5"	6" x 6"
Motor	40 hp	60 hp	75 hp	125 hp	125 hp
Main Cylinder Bore	14"	14"	14"	16"	16"
Max Face Pressure	48,395 psi	48,395 psi	48,395 psi	51,235 psi	35,500 psi
Total Force Available	385 tons	385 tons	385 tons	503 tons	—
Max System Pressure	5,000 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi
Electrical (460 V 3-phase)	100 amps	125 amps	150 amps	200 amps	200 amps
Machine Weight (pounds)	17,000 (7711 kg)	19,000 (8618 kg)	19,000 (8618 kg)	24,500 (11,113 kg)	25,500 (11,567 kg)

\* Production is based on an average input density. If the input density is lower the production will be lower than the throughput stated. Production numbers can be guaranteed if a sample is run.



We offer hopper extensions to add storage space to the briquetter. This extension adds approximately 4 cubic yards worth of storage space to the foundry series.

## DIMENSIONAL DATA

Dimension	1500	2000	2500	3000/4000
A	14'3"	14'3"	14'3"	11'9"
B	8'6"	8'6"	8'6"	8'5"
C	20'11"	20'11"	20'11"	18'6"
D	7'1"	7'1"	7'1"	7'2"

