



Adding Value  
Projects

**RUF**  
BRIQUETTING SYSTEMS



## RUF Briquetting Systems

are successfully employed in the recycling industry worldwide





Adding Value worldwide

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BRIQUETTING SYSTEMS

#### GERMANY



**Material: Aluminium**

RUF 45/2600/150x75 1,1 to/h since 2007

Our customer achieves a higher selling price for solid briquettes (forging alloy) than for loose chips. In addition 5 m<sup>3</sup> of cutting fluid is recycled for reuse per week.

#### GREAT BRITAIN



**Material: Aluminium**

10 Briquetting Systems in sum 4,5 to/h since 2003

Our customer, a leading metal trader, installs our machines directly at the metal machining companies, where the swarf is produced. The briquettes are sold.

#### AUSTRIA



**Material: Aluminium**

4x RB 7,5 resp. 15/1700/150x60  
in sum 2,0 to/h since 2005

The refiner buys (wet) swarf from the scrap market and 4 RUF machines are briquetting the material. The swarf is dewatered and gets melted in a hearth-type furnace.

#### ROMANIA



**Material: Aluminium**

RUF 55/1700/150x120 1,5 to/h since 2010

The customer is one of the largest aluminium smelters in Eastern Europe and briquettes scalping chips of any alloy which is produced there. The briquettes are remelted in their own cast house.



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#### RUSSIA



**Material: Aluminium**

RUF 30/1700/150x120 1,5 to/h since 2003

Different aluminium scraps are briquetted and shredded beforehand if necessary. The briquettes are melted according to the alloy, in the own cast house (refiner).

#### SOUTH AFRICA



**Material: Aluminium**

RB 15/1700/150x60 400 kg/h since 2002

The scrap merchant buys swarf from the market, briquettes and melts the briquettes in their own foundry (crucible furnace) to produce ingots.

#### CZECH REPUBLIC



**Material: Aluminium**

RUF 30/2600/120 700 kg/h since 2013

The scrap dealer collects aluminium chips from various collection points. The material is therefore very different; besides dry and wet chips, aluminium dust and long wooly chips occur as well. The long wooly chips are shredded before briquetting. The briquettes with defined residual moisture are sold to a smelter.

#### HUNGARY



**Material: Aluminium**

RUF 90/2500/150 2 to/h since 2012

The automotive supplier shreds the aluminium swarfs before the RUF briquetting system is feeded with them. The machine works in three shift operation.



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#### GERMANY



**Material: Cast iron**

RUF 90/3700/120 3,0 to/h since 2009

Cast iron chips are bought from different plants, mixed by quality (alloy) and briquetted. Briquettes are sold to different foundries.

#### JAPAN



**Material: Cast iron**

3x RUF 30/3800/100 in sum 3,0 to/h since 2002

In 2002 the customer bought his first RUF 30: Meanwhile 3 RUF-machines are briquetting different alloys. The briquetts are sold to foundries.

#### GERMANY



**Material: Stainless steel**

RUF 55/3700/100 1,8 to/h since 2011

RUF 90/3900/120 2,7 to/h since 2012

The customer briquettes specified stainless steel alloys, like Duplex. The briquettes are sold to steelworks.

#### HUNGARY



**Material: Steel & Grinding chips**

RB 30/3700/100 1,0 to/h since 2006

Steel chips are mixed with grinding sludge and briquetted. The briquettes are sold to steelworks.



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#### GERMANY



**Material: Red brass**

RUF 30/3700/100 1,0 to/h since 2007

The customer buys chips (different copper alloys) from scrap dealers. The briquetting process generates chargeable scrap and the oil content is reduced to a minimum. Briquettes are used in their own meltshop.

#### Austria



**Material: Grinding sludge**

RUF 22/2000/120S 650 kg/h since 2008

Grinding sludge (with coolant) is obtained from mainly one client and pressed into solid briquettes, which are sold to steel works.

#### SWITZERLAND



**Material: Zinc dust**

RUF 15/3000/80 300 kg/h since 2008

The customer recycles household batteries, from which zinc-containing dust is generated. This dust is briquetted before the melting process.

#### USA



**Material: Brass**

2x RB 30/5000/60 1,0 to/h since 2002

Customer buys cupriferous scrap, mainly radiators. They are shredded, dried and afterwards mixed with other metals before briquetting. These metallurgically exactly defined alloy-briquettes are sold.



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#### GERMANY



#### Material: Wood chips

12x RB 440 in sum 30.000 to/year since 2007

A dryer and a hammer mill are preparing the humid material for the briquetting. A 30 m<sup>3</sup> RUF-push-floor is feeded by a screw conveyor. The briquettes are arranged and packed.

#### GERMANY



#### Material: Sawdust & fines beech

5 Briquetting Systems in sum 2,5 to/h since 2005

Customer collects production waste from wood processing industry, especially beech. Sawdust is briquetted on 5 RUF-machines, briquettes are packed and sold for household use - via wholesale and retail outlets.

#### FRANCE



#### Material: Wood residues & sawdust

RUF 1500 1,5 to/h since 2009

The customer buys wood residues and sawdust. The residues are shredded and mixed with the sawdust. This mixture is getting briquetted and the briquettes are sold via retailers.

#### USA



#### Material: Wood chips/ -dust

2x RUF 600 1 to/h since 2008

The customer buys dry sawdust from nearby production facilities and briquettes them. The briquettes are packed on semi automatic machines and sold via retailers.



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#### NORWAY



**Material: Polyurethan**

RUF 400 350 kg/h since 2013

Used refrigerators are shredded, the PU-insulation separated and briquetted. Material volume is reduced by 1:20 - 1:25.

#### GERMANY

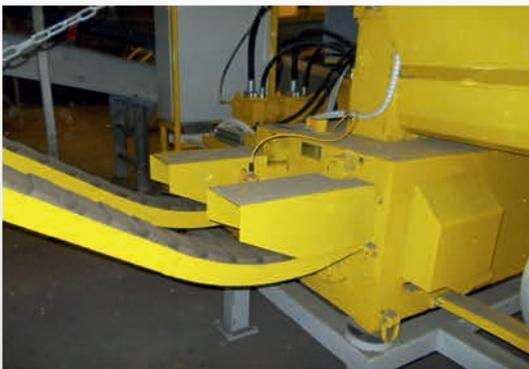


**Material: Textile dust**

RUF 200 180 kg/h since 2011

The customer is engaged in the marketing of old textiles. In the textile recycling plant, textile dust is generated (cotton & synthetic fiber) which is taken up by an extraction system. A conveyor then transports the dust into the hopper of the briquetting system. Previously, costs have incurred for the disposal of the dust, now the briquettes can be sold to the cardboard industry.

#### GERMANY



**Material: Biogenic fraction of household waste**

RUF 600 780 kg/h since 2013

The customer operates a mechanical-biological waste treatment plant. The dust-like biogenic fraction of household waste after drying has a residual moisture content of <15%. The material is taken from a cyclone suction system and fed to the briquetting press. The briquettes can be used in this form in a power plant via grate firing.

#### CANADA



**Material: Cardboard**

2x RUF 1100 1,5 to/h since 2013

The customer operates in the food industry. In the packaging area, large quantities of scrap cardboard are accumulated. These scraps are then shredded and fed to the briquetting systems to reduce the volume in order to optimize the transport and subsequent thermal utilization.



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