

METAL





# RUF BRIQUETTING SOLUTIONS

## FOR OPTIMAL METAL RECYCLING

### Materials

Metal chips that are produced in the metal-working industry can be profitably pressed with RUF briquetting systems.

Through the process of briquetting, the value of residual metals can be increased considerably. A further advantage is the recovery of expensive cutting fluids that can be pressed out of wet chips and then reused.

When melting briquettes, combustion is significantly lower and results in a higher melting yield than with loose chips.

### Formats

Metals can be processed into briquettes measuring between 60x40 mm and 150x120 mm. The length of the briquette is variable and can be set between certain predefined limits.

The choice of the briquette format depends on the required throughput as well as the quality of the source material and its bulk density. Select between round or rectangular briquette shapes.

### Benefits

- ▶ suitable for fully automatic operation 24/7
- ▶ compact design
- ▶ low, electrical rating with regard to the briquetting performance
- ▶ higher profits with briquettes compared to loose chips
- ▶ lower combustion and higher melting yield
- ▶ recover expensive cutting fluid

### Machines

Depending on your requirements, our systems are powered by hydraulic motors of between 4 kW and 90 kW and work at specifically calculated pressures of up to 5,000 kg/cm<sup>2</sup>.

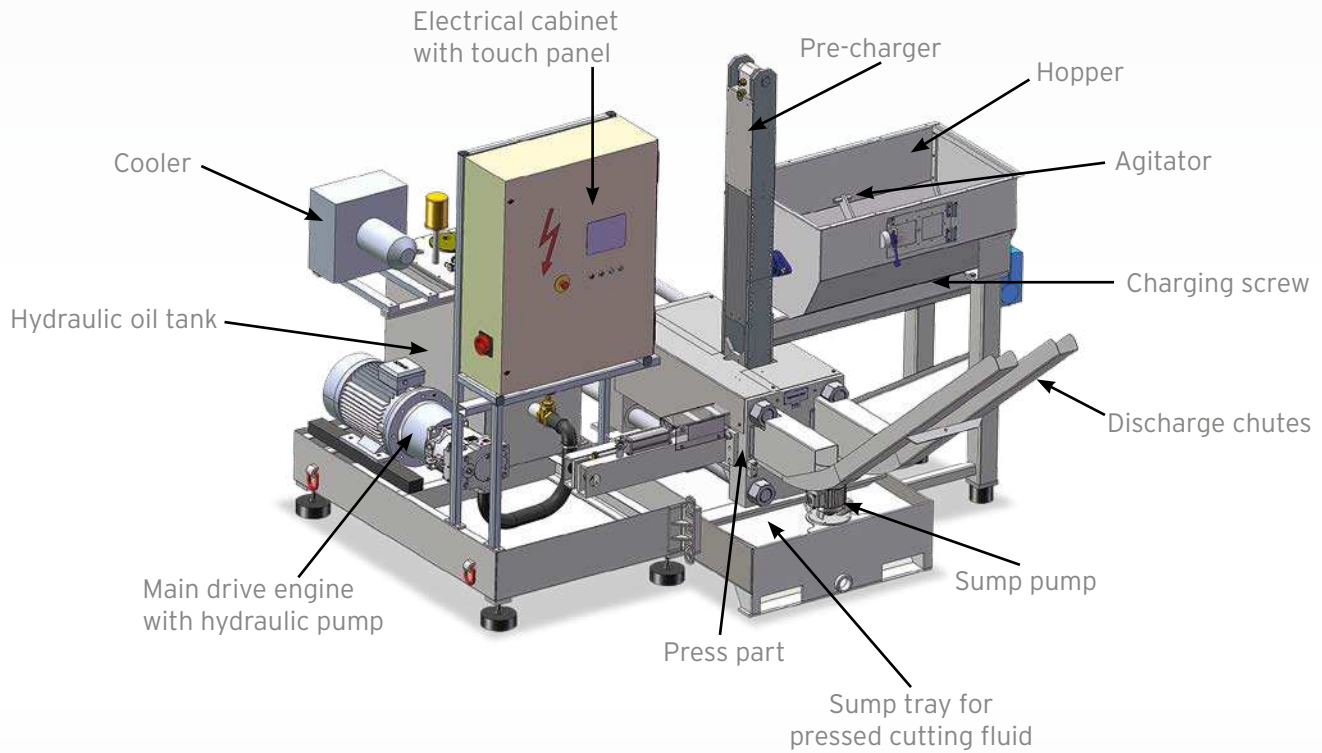
When configuring a briquetting system, we take into consideration all customer-specific needs and thus offer individually customised solutions.

Our compact briquetting systems can directly be integrated into existing production facilities and are designed for a fully automatic 24-hour operation.

The throughput capacities of RUF briquetting systems designed for processing metals are between 30 and 4,800 kg per hour.



## PROCESS AND FEATURES

























Metal		
Mechanical	Hydraulic	Electrical
Compact footprint	● Hydraulic power unit	● Electrical cabinet
Hopper with agitator and charging screw	● Hydraulic oil tank with oil cooler	● PLC control with touch panel
Pre-charger with volume control	● Recirculation filter	● Level sensor in hopper
Press part	● Ventilation filter	● Electrical cabinet heater
Main pressing ram	● Low oil level and high temperature detection	● Electrical cabinet cooler
Sump tray for pressed cutting fluid	● Hydraulic oil	● Signal light
Discharge chutes	● Hydraulic oil tank heater	○
Briquette conveyor	○ Water cooler	○
Roll agitator	○	
Multiple screw conveyor	○	
Hydraulic lifting and tipping unit	○	
Sump pump	○	
Spraying device	○	
Grinding chip design	○	
Sump tray flushing system	○	

Legend: ● = Standard ○ = Option

# MACHINE TYPES

## BRIQUETTE FORMATS

METAL	RAP	RUF 4 to RUF 11	RUF 7.5 to RUF 22	RUF 18.5 to RUF 55	RUF 90
Max. throughput rate (kg/h)					
Aluminium	30-50	60-300	130-700	300-1300	1000-2000
Steel & castings	30-80	100-200	130-1200	350-2800	2000-3000
Brass, bronze, copper	50-100	100-220	360-1150	450-2700	3000-4800
Power (kW)	4	4-11	7.5-22	18.5-55	90
Spec. pressure, max. (kg/cm <sup>2</sup> )	1600-3800	1600-3700	1400-5000	1700-5000	2500-3900
Briquette formats (mm)	 60x40  60x60  80x40  Ø80	 60x40  60x60  Ø60  Ø80	 150x60  150x75  150x120  Ø60  Ø70  Ø80  Ø100	 150x75  150x120  Ø80  Ø100  Ø120	 Ø120  Ø150
Briquette length (mm)	30-60	30-100	65-100	65-100	65-150
Size (m) Length x Width x Height	1.3x1.0x1.6	1.3x1.5x1.9 to 1.6x1.6x1.95	2.7x2.0x2.2 to 3.3x2.4x2.2	2.9x2.4x2.2 to 3.3x2.4x2.2	3.8x3.8x2.5
Weight (t)	1	1.4-1.8	3.3-4.9	4.6-6	12

Subject to technical modifications.

The throughput capacity depends upon the machine design as well as the type and form of the material used.



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