



WOOD
BIOMASS





RUF BRIQUETTING SOLUTIONS

FOR HIGH-QUALITY FUELS

Materials

RUF briquetting systems process residual wood at a consistent high level of quality and density—from the finest wood dust, wood shavings, and sawdust to coarse wood chips. In addition to wood, a variety of residual organic materials such as miscanthus, straw, and cotton can be pressed into handy briquettes of various shapes without adding binders (when the moisture content is less than 15 percent). RUF briquetting systems automatically adapt to different materials being processed.

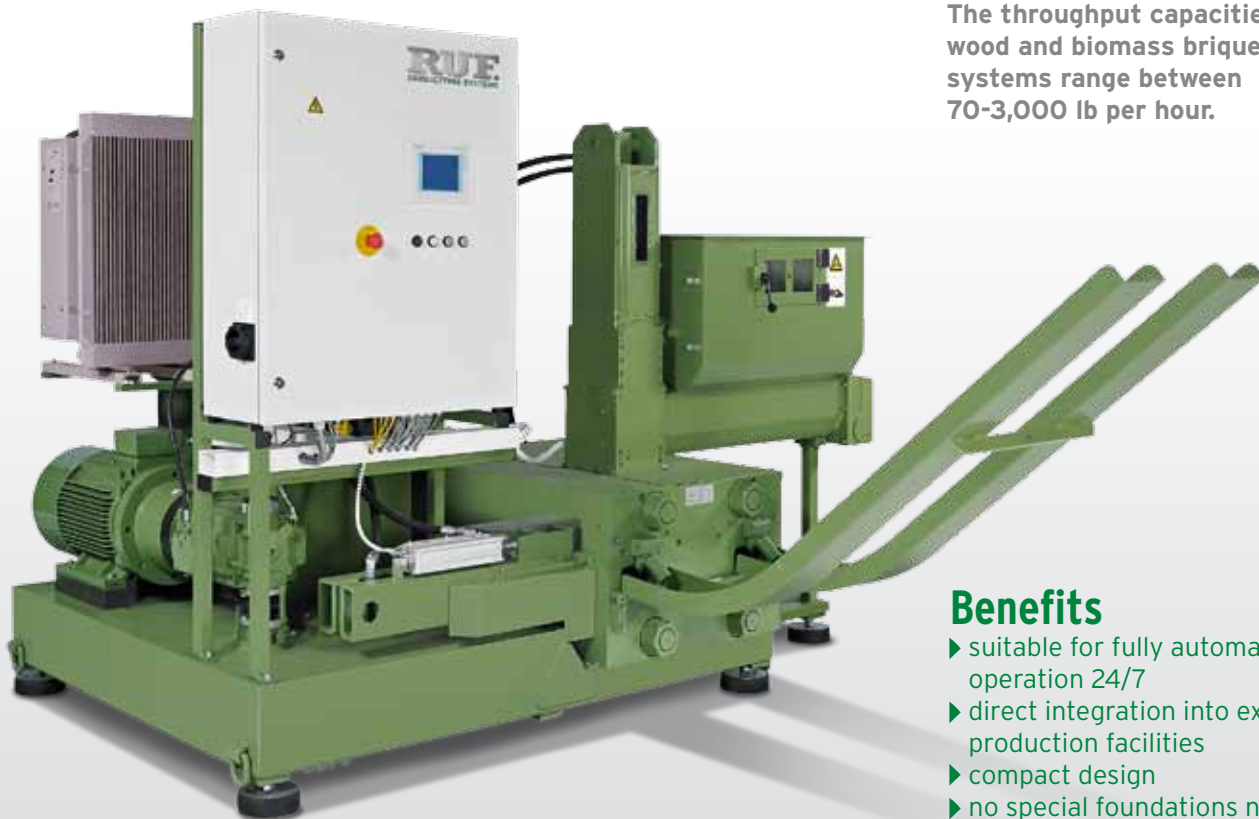
Formats

RUF briquettes can be produced in the classic rectangular shape or in other user-defined shapes. As a high-quality source of energy, they are used in traditional solid fuel furnaces as well as in modern fireplaces and stoves. RUF briquettes are also used as fuels in industrial combustion processes.

Machines

In order to guarantee the high quality of wood briquettes, RUF briquetting systems work at specifically calculated pressures of up to 24,000 psi. Biomass can be processed into briquettes with cross sections measuring between 6x2.4 in and 10x4 in. The length of the briquette is variable and can be set between certain predefined limits. RUF briquetting systems are extremely energy efficient and are made to operate with extremely low levels of wear and tear. We deliver customized systems that are precisely configured to do the job at hand, powered by hydraulic motors that range from 4 hp to 125 hp

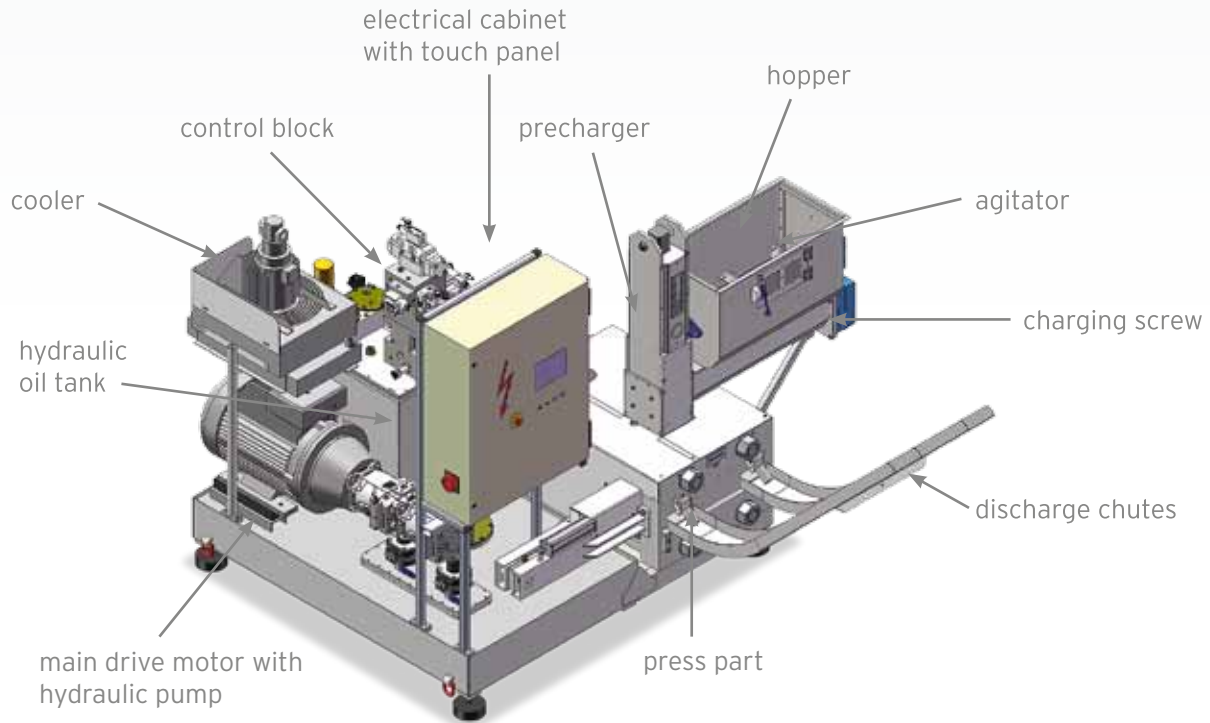
The throughput capacities of RUF wood and biomass briquetting systems range between 70-3,000 lb per hour.



Benefits

- ▶ suitable for fully automatic operation 24/7
- ▶ direct integration into existing production facilities
- ▶ compact design
- ▶ no special foundations necessary
- ▶ easy installation
- ▶ customized machine configurations depending on the customer's individual requirements

PROCESS AND FEATURES














Wood and Biomass		
Mechanics	Hydraulics	Electrics
Compact unit mechanics, hydraulics and electrical	● Hydraulic system	● Electrical cabinet ●
Hopper with agitator and charging screw	● Hydraulic oil tank with oil cooler	● PLC control with touch panel ●
Pre-charger with pre-charging control	● Recirculation filter	● Level sensor in hopper ●
Press-part	● Breather filter	● Electrical cabinet heater ○
Main pressing ram	● Low oil and high temp protection	● Electrical cabinet cooler ○
Oil pan	● Hydraulic oil	● Alarm light ○
Discharge chutes	● Hydraulic oil tank heater	○
Dust ports	● Water/oil cooler	○
Piston with RUF logo	●	
Storage silo	○	
Walking floor	○	
Briquette conveyor	○	

Legend: ● =Standard ○ =Option

MACHINE TYPES

BRIQUETTE FORMATS

WOOD	RUF 4 to RUF 5.5	RUF 100 to RUF 800	RUF 1100 to RUF 1100+	RUF 1500
Max. throughput rate (lb/h)	120-220	220-1,500	1,700-2,900	3,000
Power (hp)	5-7.5	10-50	75-100	125
Spec. pressure, max. (psi)	10,150-53,650	20,300-24,650	20,300-24,650	24,650
Briquette formats (mm)	 3  2.4x1.6  2.4x2.4	 6x2.4  6x2.8  6x3  6x3	 9.4x2.8  9.4x3  9.4x3	 10x4
Briquette length (in)	1-3	2.5-4	2.5-4	2.5-4
Size (in) Length x Width x Height	52x59x75	71x63x79 to 79x79x83	107x91x83	118x130x91
Weight (t)	1.4	2.8-4.6	7.7	13

Subject to technical modifications - Capacity depends on the source material



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