



WOOD
BIOMASS





RUF BRIQUETTING SOLUTIONS

FOR HIGH-QUALITY FUELS

Materials

RUF briquetting systems process residual wood at a constantly high level of quality and density - from the finest wood dust through wood shavings and sawdust up 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 the need of adding binders, provided the water content is under 15 percent.

RUF briquetting systems adapt automatically to the different materials to be processed.

Formats

RUF briquettes can be produced in the classic rectangular shape or in an innovative format.

As a high-quality source of energy, they are used in traditional solid fuel furnaces as well as modern fireplaces like tiled stoves and closed or open stoves. Furthermore, RUF briquettes are also used as fuels in industrial combustion processes. They meet the high quality requirements prescribed by DIN standard 51731, as well as the Austrian ÖNORM 7135.

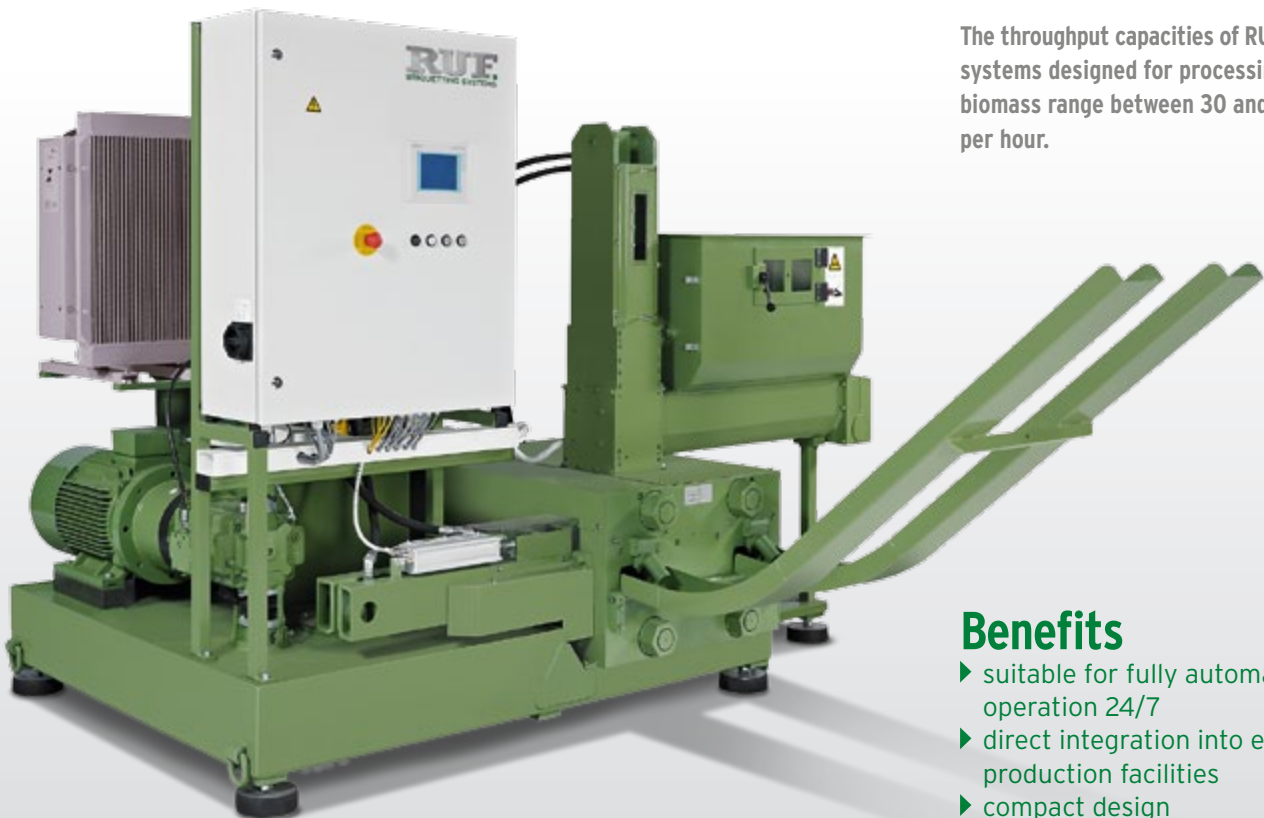
Machines

In order to guarantee the high quality of the wood briquettes, RUF briquetting systems work at specifically calculated pressures of up to 1,700 kg/cm².

Biomass can be processed into briquettes with cross sections measuring between 150x60 mm and 260 x100 mm. The length of the briquette is variable and can be set between certain predefined limits.

RUF briquetting systems are extremely energy efficient and exhibit a surprisingly low degree of wear and tear. We deliver systems precisely configured to do the job at hand, powered by hydraulic motors of between 3 kW and 90 kW.

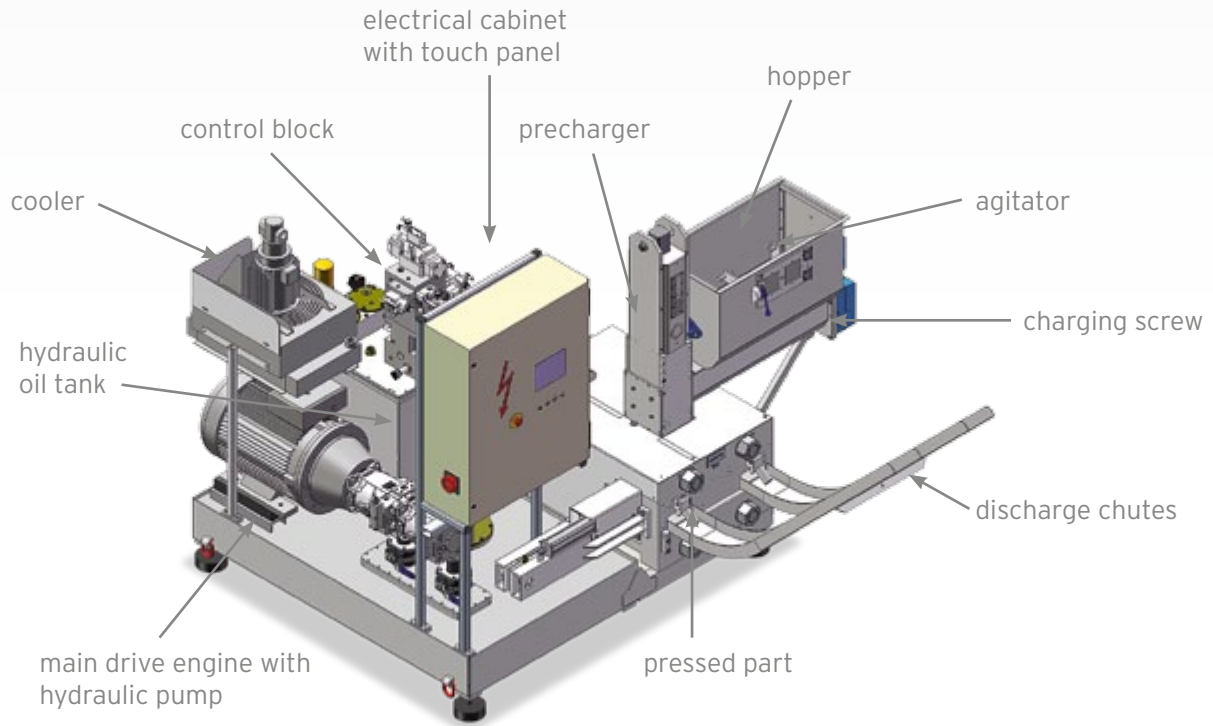
The throughput capacities of RUF briquetting systems designed for processing wood or biomass range between 30 and 1,500 kg per hour.



Benefits

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

PROCESS AND FEATURES














Wood and Biomass		
Mechanics	Hydraulics	Electrics
Compact unit mechanics, hydraulics, electricity ●	Hydraulic aggregate ●	Electrical cabinet ●
Hopper with agitator and charging screw ●	Hydraulic oil tank with oil cooler ●	SPS control with control panel ●
Pre-charger with pre-charging control ●	Recirculation filter ●	Level sensor in hopper ●
Pressed part ●	Ventilation filter ●	Heating electrical cabinet ○
Main pressing ram ●	Low oil-trip and overheating protection ●	Cooler electrical cabinet ○
Oil pan ●	Hydraulic oil ●	Alarm light ○
Discharge chutes ●	Heating for hydraulic oil tank ○	
Suction hopper ●	Water 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 (kg/h)	60-100	100-700	800-1300	1500
Power (kW)	4-5.5	7.5-37	55-75	90
Spec. pressure, max. (kg/cm ²)	700-3700	1400-1700	1400-1700	1700
Briquette formats (mm)	 Ø 80  60x40  60x60	 150x60  150x70  150x75  150x75	 240x70  240x80  240x80	 260x100
Briquette length (mm)	30-80	65-110	65-110	65-110
Size (m) Length x Width x Height	1.3x1.5 x 1.9	1.8x1.6x2.0 to 2.0x2.0x2.1	2.7 x 2.3x2.1	3.0x3.3x2.3
Weight (t)	1.3	2.5-4.2	7	12

Subject to technical modifications - Capacity depends on the source material



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