

WOOD

RUF LIGNUM
SERIES

- ▶ STANDARDIZED SERIES
- ▶ RELIABLE RUF TECHNOLOGY
- ▶ FOR HIGH QUALITY WOOD BRIQUETTES
- ▶ INNOVATIVE HYDRAULIC SYSTEM FOR MORE ENERGY EFFICIENCY



RUF BRIQUETTING SOLUTIONS

FOR HIGH-GRADE FUELS

Chips

All briquetting systems of the RUF LIGNUM series process residual wood at a consistently high level of quality and density – from dust to wood shavings and coarse chips. Varying bulk densities are processed automatically. The pressing pressure of all models is sufficient to press loose chips into solid briquettes. No binders are required for this process.

It is important that the moisture content of the wood chips is below 15%, preferably under 12%, and that the chip size does not exceed 2in. The general rule is that the finer the material is, the smoother and more solid the surface and edges turn out.

Briquettes

RUF briquettes are recognized worldwide as a high-quality product. All models of the RUF LIGNUM series produce briquettes which meet the standards prescribed by DIN EN ISO 17225-3. The briquettes are used in traditional fire places and wood burning stoves as high-grade fuels.

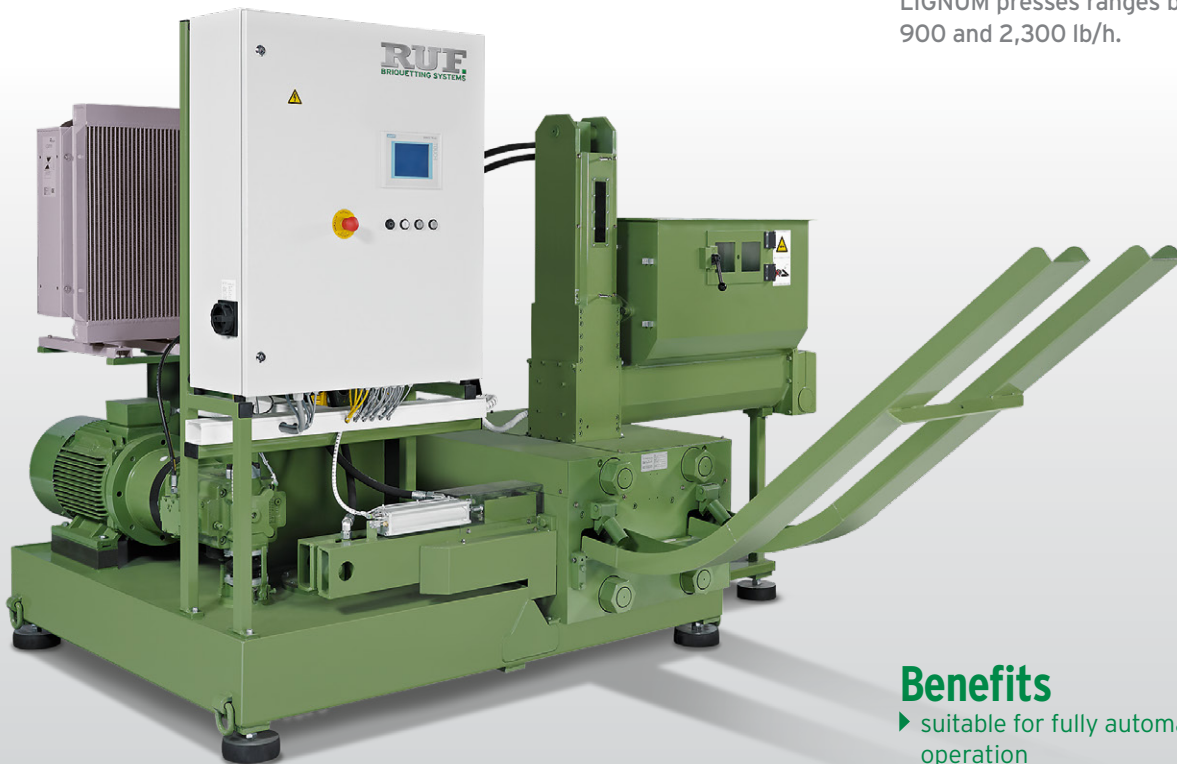
The improved briquette length control system ensures optimal weight consistency for the briquettes. It also offsets bulk weight variations in the material input. The rectangular briquettes can therefore be perfectly stacked and bundled into packages (usually 24lb with shrink wrap). The briquette shape 6"x2.4" and 9.4"x2.8" are available.

Machines

All RUF LIGNUM models are highly energy efficient due to their innovative RUF hydraulic system. The further improvement of the hydraulic system of the LIGNUM R2 and LIGNUM R4 has led to an efficiency increase of around 25%.

The different models are equipped with motors ranging between 30hp and 100hp. RUF exclusively utilizes energy efficient class IE3 motors. The hydraulic system creates a specific pressing force of more than 24,000 psi during the briquetting process and thereby ensures a consistently high briquette quality, even in continuous operation.

The throughput capacity of the RUF LIGNUM presses ranges between 900 and 2,300 lb/h.

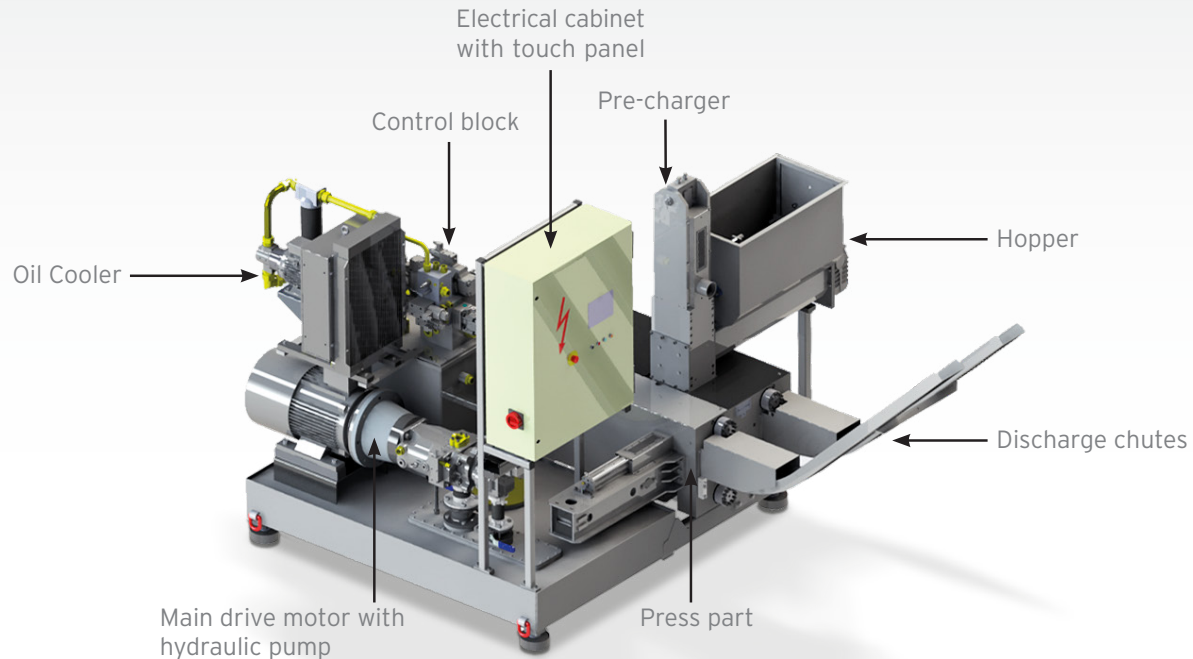


Benefits

- ▶ suitable for fully automatic 24/7 operation
- ▶ direct integration into existing production facilities
- ▶ compact design
- ▶ no special foundations necessary
- ▶ easy installation

TECHNICAL SPECIFICATIONS

PROCESS AND FEATURES



All briquetting systems in the LIGNUM series are manufactured in standardized versions:
Reliable RUF technology at attractive prices.

LIGNUM SERIES equipment and additional options					
Mechanical		Hydraulic		Electrical	
Compact combination of mechanical, hydraulic and electrical	●	Hydraulic power unit	●	Electrical cabinet	●
Hopper with agitator and charging screw	●	Hydraulic oil tank with oil cooler	●	PLC control with touch panel	●
Pre-charger	●	Recirculation filter	●	Level sensor in hopper	●
Press part	●	Ventilation filter	●	Briquette length control (R2 - R8)	●
Main pressing ram	●	Low oil level and high temperature detection	●	Electrical cabinet heater (R2-R8)	○
Discharge chutes	●	Hydraulic oil	●		
Exhaust port (R2 - R8)	●	Hydraulic oil tank heater (R2-R8)	○		
Piston with RUF logo	●				
Packaging table (with bagger)	○				
RAL machine color differing from standard (R2-R8)	○				
Hopper door with safeguard (R2-R8)	○				
Company initials or logo on press piston / briquette (R2-R8)	○				
Extra large hopper	○				

Legend: ● = Standard ○ = Option

MACHINE TYPES

RUF LIGNUM SERIES

WOOD	LIGNUM Classic	LIGNUM R2	LIGNUM R4	LIGNUM R6	LIGNUM R8
Max. throughput rate (lb/hr)	900	1,100	1,300	1,480	2,300
Power (hp)	40	30	40	50	100
Spec. pressure, max. (psi)	24,000	24,000	24,000	24,000	24,000
Briquette profile (in) Length x Width	 6x2.4	 6x2.4	 6x2.4	 6x2.4	 9.4x2.8
Machine Size (in) Length x Width x Height	83x75x79	114x79x83	114x83x83	114x83x83	106x95x95
Machine Weight (lb)	7,275	8,380	9,040	9,260	14,330

We reserve the right to make technical changes - throughput rate depends on the source material.

LIGNUM Classic to LIGNUM R6: The calculation basis is a weight of 2.0 lb/briquette, which results from the briquette form 6x2.4in, with a length of 3.5in and a density of 62 lb/ft³.

LIGNUM R8: The calculation basis is a weight of 3.7 lb/briquette, which results from the briquette form 9.4x2.8in, with a length of 3.7in and a density of 62 lb/ft³.

**Benefit from our experience from over 4,500 briquetting systems.
Don't hesitate to consult us!**



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