



WOOD

RUF LIGNUM
SERIES

- ▶ STANDARDISED 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 from the RUF Lignum series process residual wood into briquettes at a consistently high level of quality and density - from wood dust and shavings to coarse chips. Varying bulk densities are offset automatically. The pressing pressure of all models is sufficient to press loose chips into solid briquettes. Binders are not 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 50mm. 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 recognised worldwide as a high-quality product. All models of the RUF LIGNUM series produce briquettes which meet the exacting standards prescribed by DIN EN ISO 17225-3. The briquettes are used in traditional fire places and wood burning stoves as highgrade fuels.

The improved briquette length control 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 10 kg with film sealing). The briquette formats 150x60mm and 240x70mm are available.

Machines

All RUF LIGNUM models are highly energy efficient thanks to their innovative RUF hydraulic system. The hydraulics of the new LIGNUM R10 model have been redesigned, increasing efficiency by around 25%.

The different models are equipped with motors ranging between 22kW and 75 kW. Here RUF exclusively utilises electrical motors of the energy efficiency class IE3. The hydraulic system creates a specific pressing power of more than 1,700 kg/cm² during the briquetting process and thereby ensures a consistently high briquette quality, even in continuous operation.

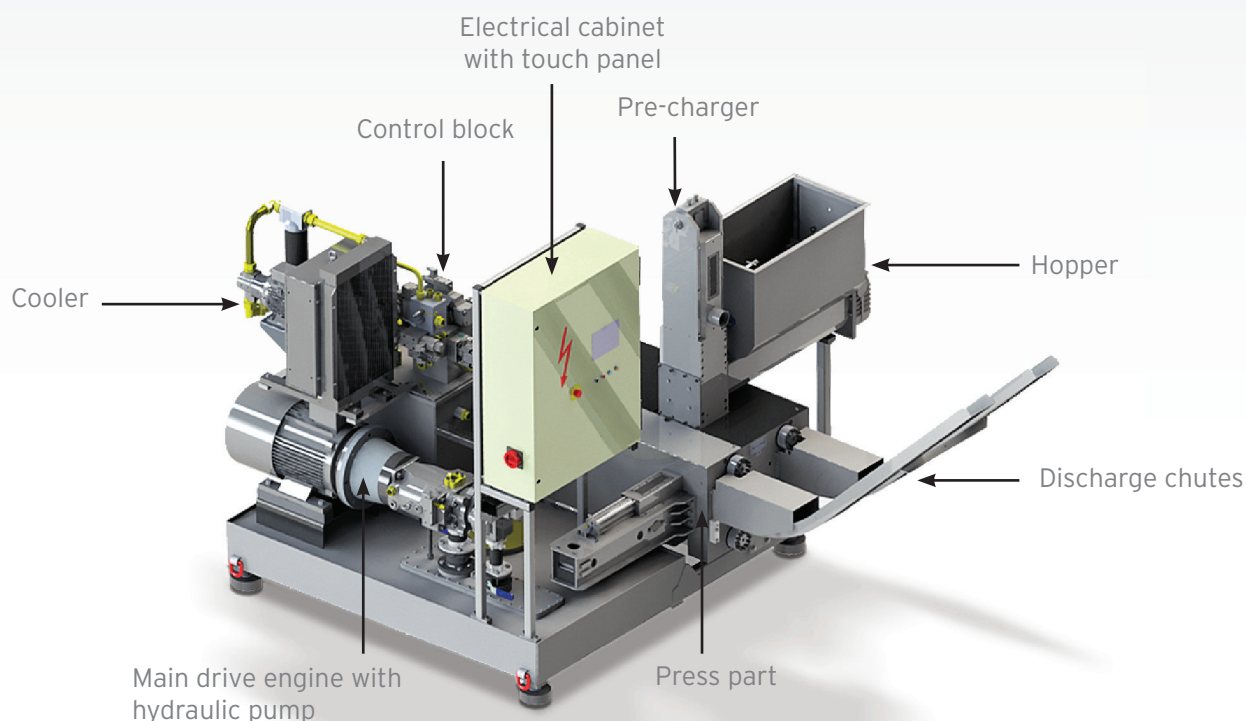
The throughput capacity of the RUF LIGNUM presses ranges between 400 and 1,000 kg/h.



Benefits

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

PROCESS AND FEATURES



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

LIGNUM SERIES equipment and additional options

Mechanics		Hydraulics		Electrics	
Compact combination of mechanics, hydraulics and electrics	✓	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 - R10)	✓
Main pressing ram	✓	Low oil level and high temperature detection	✓	Electrical cabinet heater (R2 - R10)	•
Discharge chutes	✓	Hydraulic oil	✓		
Exhaust port	✓	Hydraulic oil tank heater (R2-R10)	•		
Piston with RUF logo	✓				
Packaging table with film sealing	•				
RAL machine colour differing from standard (R2-R10)	•				
Hopper door with safeguard (R2-R10)	•				
Company initials on press piston / briquette (R2-R10)	•				
Extra large hopper	•				

Legend: ✓ = Standard • = Option

For more options, take a look at the Biomass series briquetting systems

MACHINE TYPES

RUF LIGNUM SERIES

WOOD	LIGNUM Classic	LIGNUM R2	LIGNUM R4	LIGNUM R6	LIGNUM R8	LIGNUM R10
Max. throughput rate (kg/h)	410	490	580	720	1.020	1.090
Power (kW)	30	22	30	37	75	55
Spec. pressure, max. (kg/cm ²)	1.700	1.700	1.700	1.700	1.700	1.700
Briquette formats (mm) Length x Width	 150x60	 150x60	 150x60	 150x60	 240x70	 240x70
Size (m) Length x Width x Height	2,1x1,9x2,0	2,9x2,0x2,1	2,9x2,1x2,1	2,9x2,1x2,1	2,7x2,4x2,4	2,7x2,4x2,4
Weight (t)	3,3	3,8	4,1	4,2	6,5	7,0

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 0,85 kg/briquette, which results from the briquette form 150x60mm, with a length of 90mm and a density of 1 kg/l.

LIGNUM R8 and LIGNUM R10: The calculation basis is a weight of 1,7 kg/briquette, which results from the briquette form 240x70mm, with a length of 95mm and a density of 1 kg/l.

**Benefit from our experience from over 6,000 briquetting systems.
Don't hesitate to contact us!**



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