Straw & Rapeseed Briquetting Lines

Complete turnkey lines from 400 to 3,200 kg/h • BriqTech mechanical presses

Agro Bio Brichet turnkey briquetting lines turn straw bales – rapeseed, cereal and other plant residues – into dense, uniform biomass briquettes. Each line combines a bale chopping complex, a homogenisation hopper and one or more **BriqTech** mechanical crank-and-piston presses. The material is compacted **without binders or additives**, producing a 100 % natural solid fuel with a higher calorific value than firewood, for boilers, fireplaces, stoves and wood-fired furnaces. All lines are controlled by a PLC/HMI automation system (Industry 4.0).

The range at a glance

Line	Capacity*	Briquette Ø	Presses	Chopping complex	Installed power**
LBBP-400-600	400–600 kg/h	65–70 mm	1 × BT-065-500	CGS-1	115 kW
LBBP-600-900	600–900 kg/h	70–75 mm (80 mm opt.)	1 × BT-070-800Max	CGS-1	135 kW
LBBP-1200-1600	1,200–1,600 kg/h	70–75 mm (80 mm opt.)	2 × BT-070-800Max	CGS-2	235 kW
LBBP-1800-2400	1,800–2,400 kg/h	70–75 mm (80 mm opt.)	3 × BT-070-800Max	CGS-2	290 kW
LBBP-2400-3200	2,400–3,200 kg/h	70–75 mm (80 mm opt.)	4 × BT-070-800Max	CGS-2	345 kW

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex, excluding the optional dryer; actual electricity consumption is approx. 50 % of the total installed power.*

Standard on all lines

Automation	PLC + HMI control (Industry 4.0); software update / upgrade services by subscription or on request
Power factor	Reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Accessories	Automatic briquette cutter, hopper overload sensor, raw-material humidification system
Electrical safety	Grounding according to Romanian standards I7/2011 and SR EN 60204-1
Services	Commissioning, operator training, spare parts in stock, rapid intervention within 24–72 h, full service
Financing	Eligible for EU-funded investment programmes

Warranty – up to 5 years

- **24 months** manufacturer's warranty from commissioning.
- **+36 months** extended warranty from Agro Bio Brichet Energy Solutions as authorised dealer, conditional on periodic servicing and the use of original spare parts.

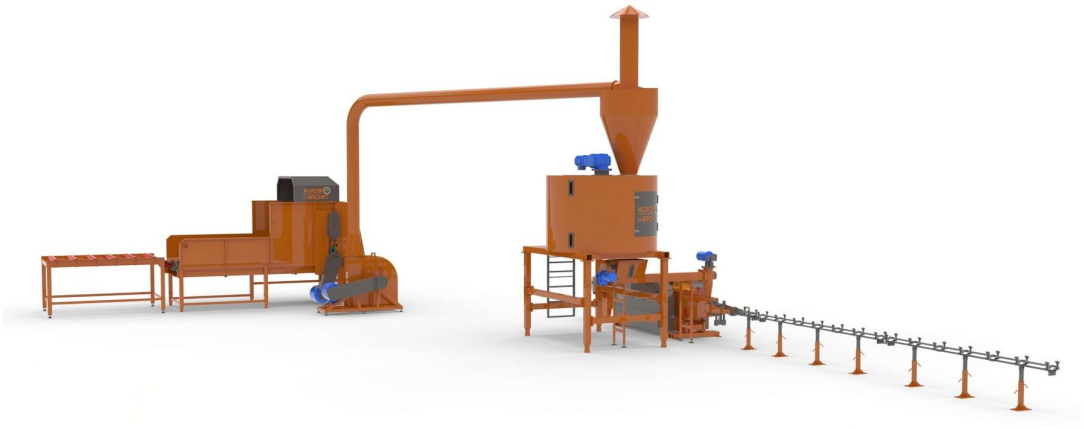
Return on investment

Estimated payback of **6–18 months**, depending on raw-material cost, production volume and operating schedule (8–16 hours/day). This is an estimate, not a guarantee.

Briquetting Line 400–600 kg/h

Rapeseed / straw briquetting line • Code LBBP-400-600

400–600 kg/h	65–70 mm	1 ×	115 kW
production capacity*	briquette diameter	BT-065-500 press	installed power**



Line layout – BT-065-500 press



Line layout with straw drying unit (optional)

Technical specifications

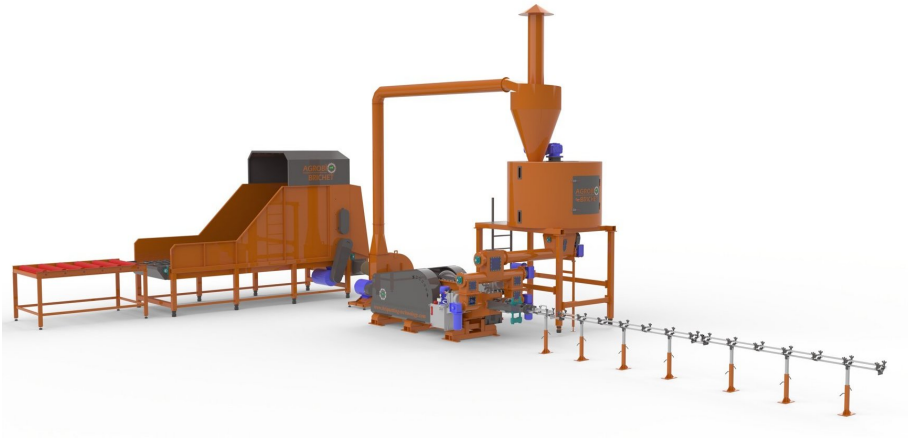
Item	Specification
Production capacity*	400–600 kg/h
Briquette diameter	65–70 mm
Raw material	Rapeseed straw, cereal straw and other plant residues; drying unit handles straw with moisture up to 35 %
Briquetting press	1 × BriqTech BT-065-500 mechanical briquetting press, 35 kW each
Homogenisation hopper	Raw-material homogenisation hopper, 3 m³
Bale chopping	CGS-1 straw bale chopping complex, 80 kW
Drying	DAD-0.6-1.2 aerodynamic straw dryer, 25 kW (optional)
Total installed power**	115 kW (140 kW with dryer)
Electricity consumption	approx. 50 % of total installed power
Power factor	6-step capacitor bank, cos φ 0.99
Automation	PLC + HMI (Industry 4.0)
Accessories	Automatic briquette cutter, hopper overload sensor, humidification system
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex, excluding optional dryer. Images are 3D renderings of the line layout; final configuration may vary per project.*

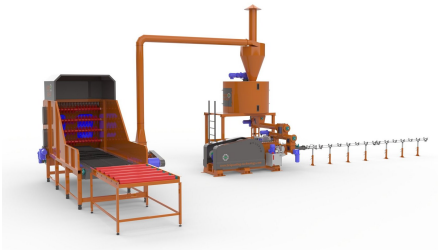
Briquetting Line 600–900 kg/h

Rapeseed / straw briquetting line • Code LBBP-600-900

600–900 kg/h	70–75 mm	1 ×	135 kW
production capacity*	briquette diameter	BT-070-800Max press	installed power**



Line layout – BT-070-800Max press



Line layout with straw drying unit (optional)

Technical specifications

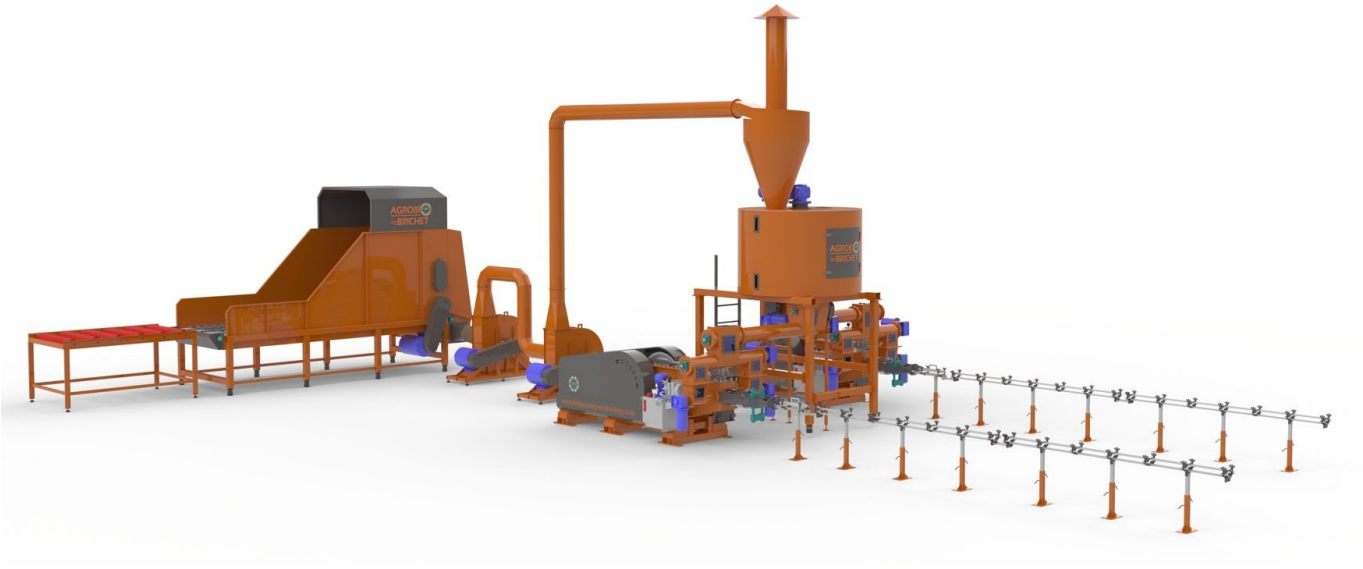
Item	Specification
Production capacity*	600–900 kg/h
Briquette diameter	70–75 mm (80 mm optional)
Raw material	Rapeseed straw, cereal straw and other plant residues; inline moisture display available as option
Briquetting press	1 × BriqTech BT-070-800Max mechanical briquetting press, 55 kW each
Homogenisation hopper	Raw-material homogenisation hopper, 3–5 m³
Bale chopping	CGS-1 straw bale chopping complex, 80 kW
Drying	DAD-0.6-1.2 aerodynamic straw dryer, 20 kW (optional)
Total installed power**	135 kW (155 kW with dryer)
Electricity consumption	approx. 50 % of total installed power
Power factor	6-step capacitor bank, cos φ 0.99
Automation	PLC + HMI (Industry 4.0)
Accessories	Automatic briquette cutter, hopper overload sensor, humidification system
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex, excluding optional dryer. Images are 3D renderings of the line layout; final configuration may vary per project.*

Briquetting Line 1,200–1,600 kg/h

Rapeseed / straw briquetting line • Code LBBP-1200-1600

1,200–1,600 kg/h	70–75 mm	2 ×	235 kW
production capacity*	briquette diameter	BT-070-800Max press	installed power**



Line layout – 2 × BT-070-800Max presses

Technical specifications

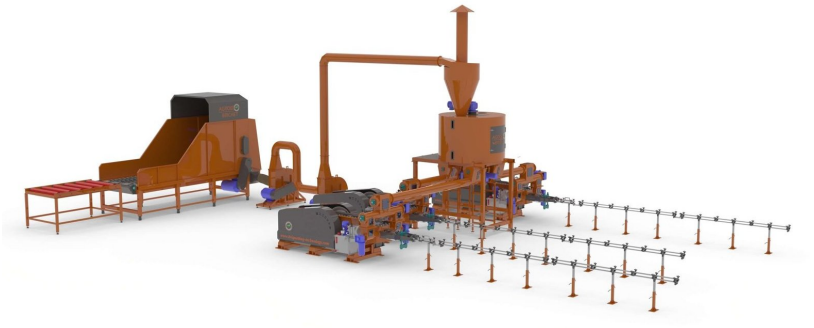
Item	Specification
Production capacity*	1,200–1,600 kg/h
Briquette diameter	70–75 mm (80 mm optional)
Raw material	Rapeseed straw, cereal straw, sawdust and other plant residues
Briquetting press	2 × BriqTech BT-070-800Max mechanical briquetting press, 55 kW each (110 kW total)
Homogenisation hopper	Raw-material homogenisation hopper, 5 m³
Bale chopping	CGS-2 straw bale chopping complex with feed conveyor, 125 kW
Drying	Drying line available on request
Total installed power**	235 kW
Electricity consumption	approx. 50 % of total installed power
Power factor	6-step capacitor bank, cos φ 0.99
Automation	PLC + HMI (Industry 4.0)
Accessories	Automatic briquette cutter, hopper overload sensor, humidification system
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex. Images are 3D renderings of the line layout; final configuration may vary per project.*

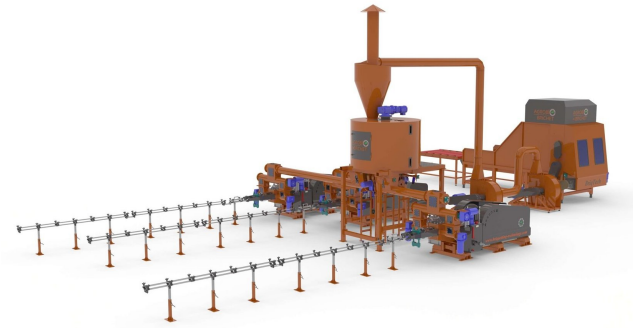
Briquetting Line 1,800–2,400 kg/h

Rapeseed / straw briquetting line • Code LBBP-1800-2400

1,800–2,400 kg/h	70–75 mm	3 ×	290 kW
production capacity*	briquette diameter	BT-070-800Max press	installed power**



Side view



Rear view – briquette cooling tracks

Technical specifications

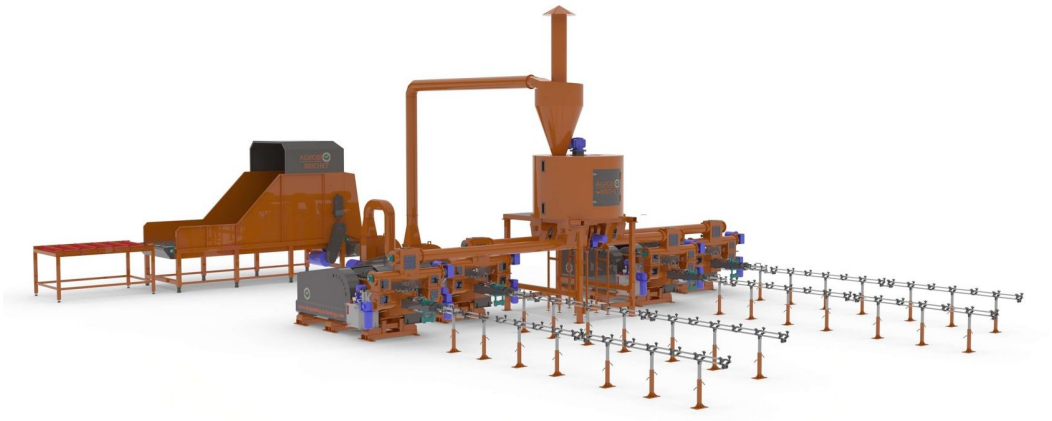
Item	Specification
Production capacity*	1,800–2,400 kg/h
Briquette diameter	70–75 mm (80 mm optional)
Raw material	Rapeseed straw, cereal straw, sawdust and other plant residues
Briquetting press	3 × BriqTech BT-070-800Max mechanical briquetting press, 55 kW each (165 kW total)
Homogenisation hopper	Raw-material homogenisation hopper, 5 m³
Bale chopping	CGS-2 straw bale chopping complex with feed conveyor, 125 kW
Drying	Drying line available on request
Total installed power**	290 kW
Electricity consumption	approx. 50 % of total installed power
Power factor	6-step capacitor bank, cos φ 0.99
Automation	PLC + HMI (Industry 4.0)
Accessories	Automatic briquette cutter, hopper overload sensor, humidification system
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex. Images are 3D renderings of the line layout; final configuration may vary per project.*

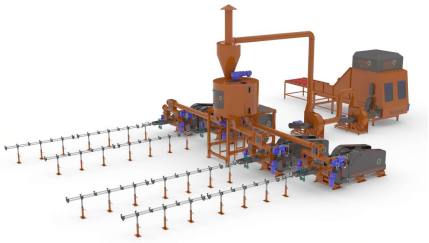
Briquetting Line 2,400–3,200 kg/h

Rapeseed / straw briquetting line • Code LBBP-2400-3200

2,400–3,200 kg/h	70–75 mm	4 ×	345 kW
production capacity*	briquette diameter	BT-070-800Max press	installed power**



Line layout – 4 × BT-070-800Max presses



Rear view – briquette cooling tracks

Technical specifications

Item	Specification
Production capacity*	2,400–3,200 kg/h
Briquette diameter	70–75 mm (80 mm optional)
Raw material	Rapeseed straw, cereal straw, sawdust and other plant residues
Briquetting press	4 × BriqTech BT-070-800Max mechanical briquetting press, 55 kW each (220 kW total)
Homogenisation hopper	Raw-material homogenisation hopper, 5 m³
Bale chopping	CGS-2 straw bale chopping complex with feed conveyor, 125 kW
Drying	2 × DAD-0.6-1.2Max aerodynamic straw dryers, 20–30 kW each (optional)
Total installed power**	345 kW (385–405 kW with dryers)
Electricity consumption	approx. 50 % of total installed power
Power factor	6-step capacitor bank, cos φ 0.99
Automation	PLC + HMI (Industry 4.0)
Accessories	Automatic briquette cutter, hopper overload sensor, humidification system
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

** Capacity depends on the type, moisture and particle size of the raw material. ** Presses + chopping complex, excluding optional dryer. Images are 3D renderings of the line layout; final configuration may vary per project.*