Straw Pelleting Lines

Complete turnkey lines from 500 to 2,500 kg/h • flat-die and ring-die pellet presses

Agro Bio Brichet turnkey pelleting lines turn wheat and rapeseed straw, alfalfa, other crop residues, sawdust and sunflower husks into dense **6–8 mm biomass pellets** – for heating fuel, animal bedding or feed. Each line combines a straw-bale chopping complex, an optional aerodynamic dryer, a raw-material homogenisation hopper and a **flat-die** (500–900 kg/h) or **ring-die PellTech** (600–2,500 kg/h) pellet press, with bagging at the end of the line. Ring-die lines are controlled by a PLC/HMI automation system (Industry 4.0).

The range at a glance

Line	Capacity*	Pellet Ø	Die type	Pellet press	Press power	Bale chopper
LPPP-500	500–800 kg/h	6–8 mm	Flat, rotating	MiniComplex GFD-0.7	–	Bale chopping complex
LPPP-550	600–900 kg/h	6–8 mm	Flat, fixed	MiniComplex R500	–	Bale chopping complex
LPPP-600	600–800 kg/h	6–8 mm	Ring	GRD-0.8 / AMP-320V	–	CGS-1 (80 kW)
LPPP-800-1000	800–1,000 kg/h	6–8 mm	Ring	PellTech AMP-420	110 kW	CGS-2 (125 kW)
900–1500 line	900–1,500 kg/h	6–8 mm	Ring	PellTech AMP-500V	110–150 kW	CGS-2 (125 kW)
LPPP-1500-2000	1,500–2,000 kg/h	6–8 mm	Ring	PellTech AMP-530V	150 kW	CGS-2 (125 kW)
LPPP-2000-2500	2,000–2,500 kg/h	6–8 mm	Ring	PellTech AMP-650V	150–180 kW	CGS-2 (125 kW)

** Capacity depends on the type, moisture and particle size of the raw material. Electricity consumption in operation is approx. 50 % of the total installed power. Images are 3D renderings of the line layout; final configuration may vary per project.*

Standard on all lines

Raw materials	Wheat / rapeseed straw, alfalfa, other crop residues; also sawdust and sunflower husks
Drying (option)	DAD-0.6-1.2 aerodynamic straw/sawdust dryer, 25–30 kW, input moisture up to 35 % (straw) / 50 % (sawdust)
Accessories	Rollers and spare die, humidification, in-flow moisture display, steam generator, hopper overload sensor
Packaging	Big-bag, semi-automatic or automatic bagging in 5–15 kg bags
Power factor	Reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
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 original spare parts)
Return on investment	Estimated payback of **6–18 months**, depending on raw-material cost, production volume and operating schedule (8–16 h/day). Estimate, not a guarantee.

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▶ Straw pelleting line in operation – Wallern im Burgenland, Austria

▶ Project no. 130 – alfalfa and straw pelleting line, Redea, Olt County (Romania)

▶ Straw and alfalfa pellet production line, 500–700 kg/h

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Straw Pelleting Line 500–800 kg/h

Flat-die (rotating) pelleting line • Code LPPP-500 • product page

500–800 kg/h	6–8 mm	Flat die	GFD-0.7
production capacity*	pellet diameter	rotating, Ø 400 mm	MiniComplex press



Line layout – flat rotating-die press



Line layout – compact configuration

Technical specifications

Item	Specification
Production capacity*	500–800 kg/h
Pellet diameter	6–8 mm
Raw material	Rapeseed straw, wheat straw, alfalfa, sawdust, sunflower husks
Pellet press	MiniComplex pellet press with rotating flat die, 8 mm – model GFD-0.7; flat die Ø 400 mm
Homogenisation hopper	Raw-material homogenisation hopper, 3–5 m³
Drying (optional)	DAD-0.6-1.2 aerodynamic straw/sawdust dryer, 25–30 kW, input moisture up to 35 % / 50 %
Chopping	Straw-bale chopping complex for rectangular or round bales; RK-2.1 branch chopper or CVP-2 flat vibrating screen
Accessories	Rollers, flat die 400 mm, humidification, in-flow moisture display, steam generator, hopper overload sensor, bagging
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

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▶ Straw and alfalfa pellet production line, 500–700 kg/h
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Straw Pelleting Line 600–900 kg/h

Flat-die (fixed) pelleting line • NEW • Code LPPP-550 • product page

600–900 kg/h	6–8 mm	Flat die	R500
production capacity*	pellet diameter	fixed, Ø 500 mm	MiniComplex press



Line layout – fixed flat-die press with bale feeder



Line layout – side view

Technical specifications

Item	Specification
Production capacity*	600–900 kg/h
Pellet diameter	6–8 mm
Raw material	Rapeseed straw, wheat straw, alfalfa, sawdust, sunflower husks
Pellet press	MiniComplex pellet press with fixed flat die, 8 mm – model R500; flat die Ø 500 mm
Homogenisation hopper	Raw-material homogenisation hopper, 3–5 m³
Drying (optional)	DAD-0.6-1.2 aerodynamic straw/sawdust dryer, 25–30 kW, input moisture up to 35 % / 50 %
Chopping	Straw-bale chopping complex for rectangular or round bales; RK-2.1 branch chopper or CVP-2 flat vibrating screen
Accessories	Rollers, flat die 500 mm, humidification, in-flow moisture display, steam generator, hopper overload sensor, bagging
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

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▶ Straw and alfalfa pellet production line, 500–700 kg/h

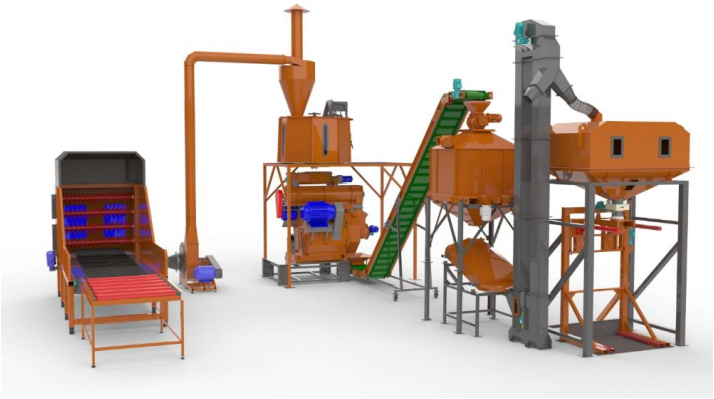
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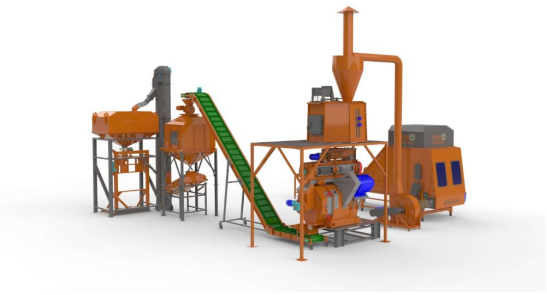
Straw Pelleting Line 600–800 kg/h

Ring-die pelleting line • Code LPPP-600 • product page

600–800 kg/h	6–8 mm	Ring die	CGS-1
production capacity*	pellet diameter	8 mm	80 kW bale chopper



Line layout – ring-die press with CGS-1 bale chopper



Line layout – alternative view

Technical specifications

Item	Specification
Production capacity*	600–800 kg/h
Pellet diameter	6–8 mm
Raw material	Rapeseed straw, other crop residues and/or sawdust
Pellet press	Ring-die pellet press, 8 mm – GRD-0.8 / AMP-320V
Homogenisation hopper	Raw-material homogenisation hopper, 3–5 m³
Drying (optional)	DAD-0.6-1.2 aerodynamic straw/sawdust dryer, 25 kW, input moisture up to 35 % / 50 %
Bale chopping	CGS-1 straw-bale chopping complex (rectangular or round bales), 80 kW
Wood residues (optional)	RK-2.1 branch chopping complex, 55 kW
Accessories	Rollers, ring die, humidification, in-flow moisture display, steam generator, hopper overload sensor, pellet bagging
Automation	PLC + HMI (Industry 4.0); update / upgrade services by subscription or on request
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

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Straw Pelleting Line 800–1,000 kg/h

Ring-die PellTech pelleting line • Code LPPP-800-1000 • product page

800–1,000 kg/h	6–8 mm	AMP-420	110 kW
production capacity*	pellet diameter	PellTech ring-die press	press power



Line layout – straw / crop-residue configuration



Line layout – alternative configuration

Technical specifications

Item	Specification
Production capacity*	800–1,000 kg/h
Pellet diameter	6–8 mm (8 mm on the sunflower-husk configuration)
Raw material	Rapeseed / wheat straw, alfalfa, feed; also sawdust and sunflower husks (see configurations below)
Pellet press	PellTech ring-die pellet press AMP-420, 110 kW
Homogenisation hopper	Raw-material homogenisation silo, 3–5 m³, 5 kW
Drying (optional)	DAD-0.6-1.2Max aerodynamic straw dryer, 25 kW
Bale chopping	CGS-2 straw-bale chopping complex, 125 kW
Packaging	Big-bag, semi-automatic or automatic bagging in 5–15 kg bags
Accessories	Rollers, ring die, steam generator, humidification, in-flow moisture sensor, hopper overload sensor
Automation	PLC + HMI (Industry 4.0); update / upgrade services by subscription or on request
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

Alternative raw-material configurations

Configuration	Pellet press	Drying / preparation
Sawdust	AMP-420V, 110 kW	SPB-20 rotary (45 kW) or 2 × DAD-0.6-1.2Max (25 kW each); RK-2.1 forest-residue chopper, 55 kW
Sunflower husks	AMP-420V, 110 kW	Hammer mill 45 kW; 8 mm pellets

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Straw Pelleting Line 900–1,500 kg/h

Ring-die PellTech pelleting line • product page

900–1,500 kg/h	6–8 mm	AMP-500V	110–150 kW
production capacity*	pellet diameter	PellTech ring-die press	press power



Line layout – straw / crop-residue configuration



Line layout – alternative configuration

Technical specifications

Item	Specification
Production capacity*	900–1,500 kg/h
Pellet diameter	6–8 mm (8 mm on the sunflower-husk configuration)
Raw material	Rapeseed / wheat straw, alfalfa, feed; also sawdust and sunflower husks (see configurations below)
Pellet press	PellTech ring-die pellet press AMP-500V, 110–150 kW
Homogenisation hopper	Raw-material homogenisation silo, 3–5 m³, 5 kW
Drying (optional)	DAD-0.6-1.2Max aerodynamic straw dryer, 25 kW
Bale chopping	CGS-2 straw-bale chopping complex, 125 kW
Packaging	Big-bag, semi-automatic or automatic bagging in 5–15 kg bags
Accessories	Rollers, ring die, steam generator, humidification, in-flow moisture sensor, hopper overload sensor
Automation	PLC + HMI (Industry 4.0); update / upgrade services by subscription or on request
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

Alternative raw-material configurations

Configuration	Pellet press	Drying / preparation
Sawdust	AMP-500V, 110–150 kW	SPB-20 rotary (45 kW) or 2 × DAD-0.6-1.2Max (25 kW each); RK-2.1 forest-residue chopper, 55 kW
Sunflower husks	AMP-500V, 110 kW	Hammer mill 45 kW; 8 mm pellets

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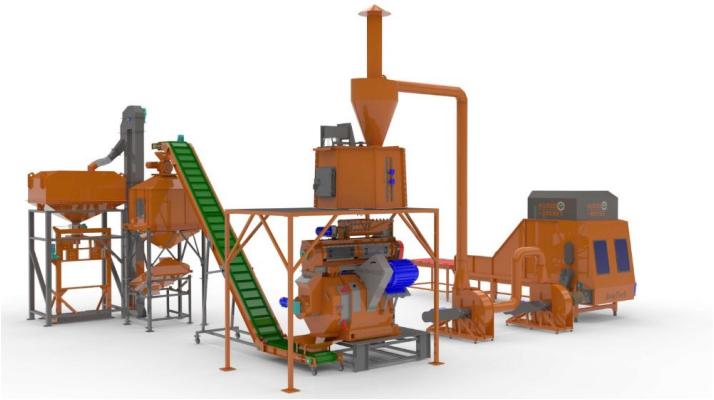
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Straw Pelleting Line 1,500–2,000 kg/h

Ring-die PellTech pelleting line • Code LPPP-1500-2000 • product page

1,500–2,000 kg/h	6–8 mm	AMP-530V	150 kW
production capacity*	pellet diameter	PellTech ring-die press	press power



Line layout – straw / crop-residue configuration



Line layout – alternative configuration

Technical specifications

Item	Specification
Production capacity*	1,500–2,000 kg/h
Pellet diameter	6–8 mm (8 mm on the sunflower-husk configuration)
Raw material	Rapeseed / wheat straw, alfalfa, feed; also sawdust and sunflower husks (see configurations below)
Pellet press	PellTech ring-die pellet press AMP-530V, 150 kW
Homogenisation hopper	Raw-material homogenisation silo, 3–5 m³, 5 kW
Drying (optional)	DAD-0.6-1.2Max aerodynamic straw dryer, 25 kW
Bale chopping	CGS-2 straw-bale chopping complex, 125 kW
Packaging	Big-bag, semi-automatic or automatic bagging in 5–15 kg bags
Accessories	Rollers, ring die, steam generator, humidification, in-flow moisture sensor, hopper overload sensor
Automation	PLC + HMI (Industry 4.0); update / upgrade services by subscription or on request
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

Alternative raw-material configurations

Configuration	Pellet press	Drying / preparation
Sawdust	AMP-530V, 150 / 180 kW	SPB-20 rotary (45 kW) or 2 × DAD-0.6-1.2Max (25 kW each); RK-2.1 forest-residue chopper, 55 kW
Sunflower husks	AMP-530V, 150 kW	Hammer mill 45 / 55 / 75 kW; 8 mm pellets

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Straw Pelleting Line 2,000–2,500 kg/h

Ring-die PellTech pelleting line • Code LPPP-2000-2500 • product page

2,000–2,500 kg/h	6–8 mm	AMP-650V	150–180 kW
production capacity*	pellet diameter	PellTech ring-die press	press power



Line layout – straw / crop-residue configuration



Line layout – alternative configuration

Technical specifications

Item	Specification
Production capacity*	2,000–2,500 kg/h
Pellet diameter	6–8 mm (8 mm on the sunflower-husk configuration)
Raw material	Rapeseed / wheat straw, alfalfa, feed; also sawdust and sunflower husks (see configurations below)
Pellet press	PellTech ring-die pellet press AMP-650V, 150–180 kW
Homogenisation hopper	Raw-material homogenisation silo, 3–5 m³, 5 kW
Drying (optional)	DAD-0.6-1.2Max aerodynamic straw dryer, 25 kW
Bale chopping	CGS-2 straw-bale chopping complex, 125 kW
Packaging	Big-bag, semi-automatic or automatic bagging in 5–15 kg bags
Accessories	Rollers, ring die, steam generator, humidification, in-flow moisture sensor, hopper overload sensor
Automation	PLC + HMI (Industry 4.0); update / upgrade services by subscription or on request
Electrical	Consumption approx. 50 % of total installed power; reactive power compensation panel, 6-step capacitor bank, cos φ 0.99
Warranty	24 months manufacturer + 36 months extended (dealer) – up to 5 years

Alternative raw-material configurations

Configuration	Pellet press	Drying / preparation
Sawdust	AMP-650V, 150–180 kW	SPB-30 rotary (45 kW) or 2 × DAD-0.6-1.2Max (25 kW each); RK-2.1 forest-residue chopper, 55 kW
Sunflower husks	AMP-650V, 150–180 kW	Hammer mill 45 / 55 / 75 kW; 8 mm pellets

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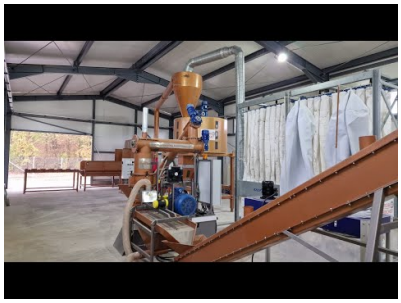
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▶ Straw and alfalfa pellet production line, 500–700 kg/h

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More than 125 projects delivered: briquetting and pelleting lines, dryers and chopping equipment – installations, tests and customer production.

Contact

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Quotation	Prices on request – send us your raw material type, moisture and target capacity