



NAWROCKI
PELLETING TECHNOLOGY



TURNKEY PELLETING SOLUTIONS
**FOR RDF/SRF AND OTHER WASTE
STREAMS**

WWW.NAWROCKIPT.CO.UK

ABOUT OUR COMPANY

Nawrocki Pelleting Technology for over 20 years has comprehensively been providing solutions associated with feed and biomass industry. We are constantly improving our technology and expanding the range of raw materials which our technology can successfully turn into pellets.

Adjusting to the changing market and environmental requirements, we have developed a technology for pelleting of various types of wet and dry waste: RDF / SRF, plastics, sewage sludge, digestate from biogas, agricultural waste and residues after car recycling.

We also have semi-industrial solutions for customers who do not require high performance.

Our projects are based on the latest technologies and devices produced from the highest quality components.

WE SPECIALIZE IN DESIGNING AND MANUFACTURING
OF INDUSTRIAL GRADE TURNKEY PELLETING SOLUTIONS,
FOR PROCESSING OF

**RDF/SRF
PLASTIC REJECTS
SEWAGE SLUDGE
BIO-DIGESTATE
ASR**

PELLETING MODULES MODULAR DESIGN & FUNCTIONALITY

The concept of our solutions narrows down to a modular Pelleting Line consisting of functional Modules: pelleting, milling (if particle size is above 20mm), mixing, Basic Modules

- RS.B1: 6-8 t/h
- RS.B2: 9-12 t/h

Pellets diameters: 6, 8, 16mm

You can choose the diameter of your pellets, which is important for its destination. Whether it is 6mm for gasification systems or 16mm for cement kilns – the choice is yours. Our plants may produce both.

Automatic Process Control

All systems run under full automatic control system with minimum operators. The automatic safety features including spark detection system, shut-off

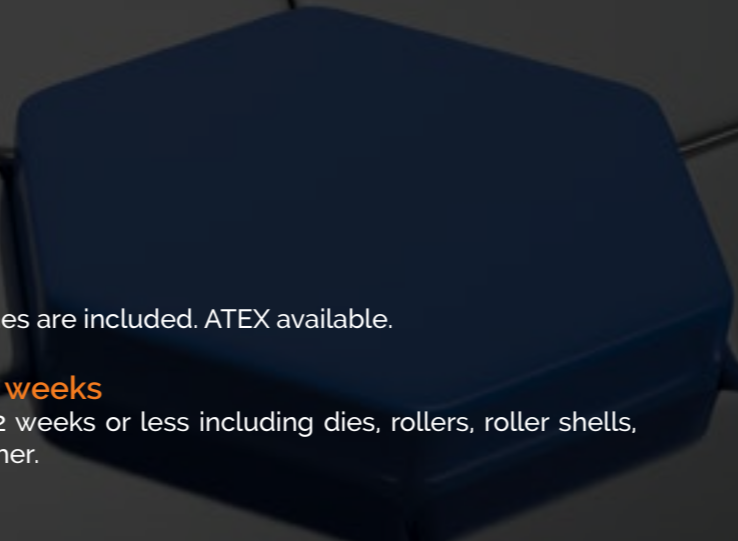
procedures, safety switches are included. ATEX available.

Spares and Parts in 2 weeks

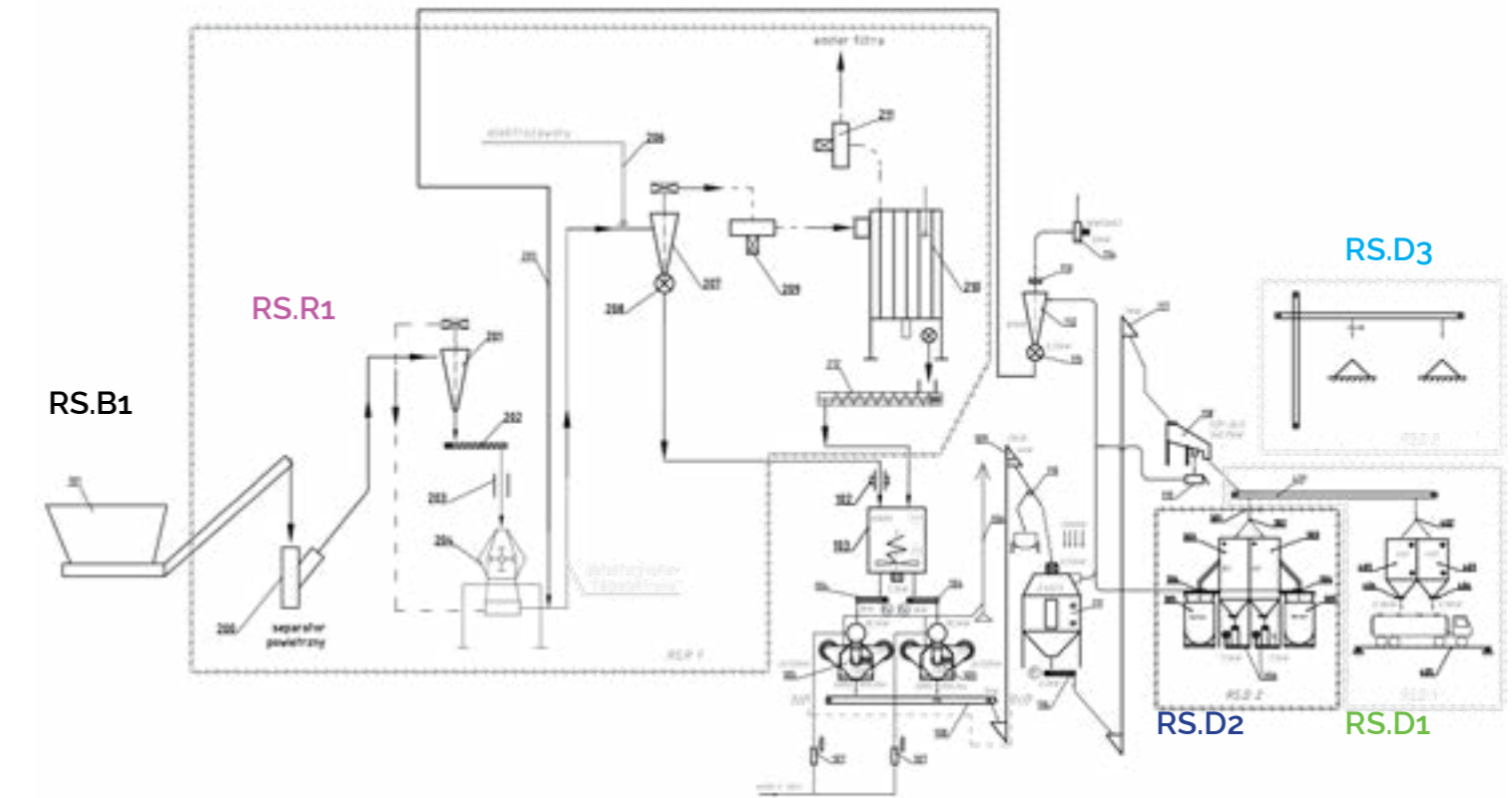
We deliver all spares in 2 weeks or less including dies, rollers, roller shells, hammers, sensors and other.

Service

Our global service is ready to action 24/7. We ship new parts in max 2 working days. If the problem requires our Service Team we are on the way to your plant in max 3 working days.



OUR PELLETING MODULES



COMPLETE PELLETING LINE (INCLUDING ALL MODULES), BASED ON TWO PELLET PRESSES GR2 850.320

MODULES WHAT'S INCLUDED

The RS.B1 Module

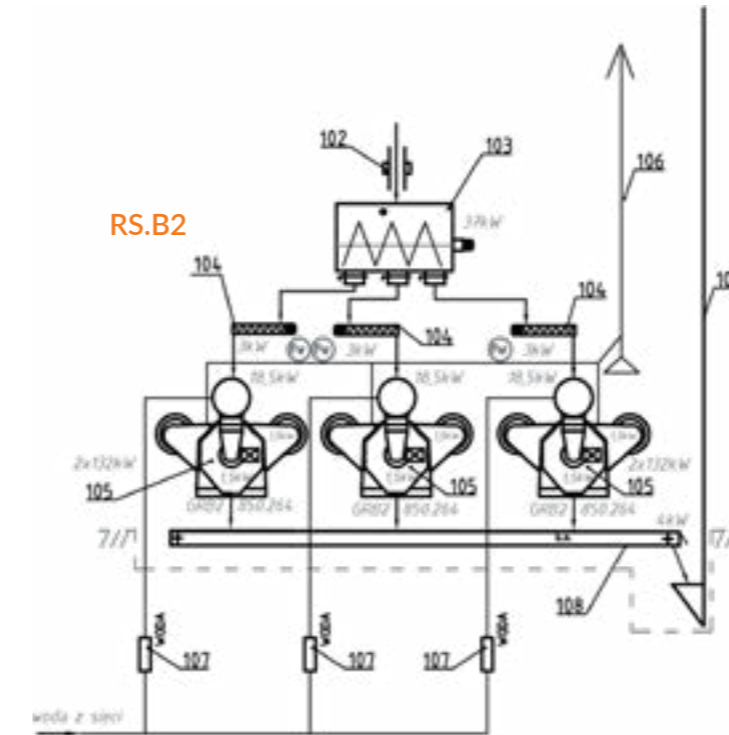
1. Main feedstock container with feeder,
2. Magnetic separator,
3. Buffering container for 2 pellet mills,
4. Two dozing screws,
5. Two pellet mills 320kW each,
6. Collecting chain conveyor,
7. Counterflow cooler with cyclone, fan, pipes,
8. Vibrating sifter with dust/crumbles return system,
9. Conveyor for pellets container,
10. Automatic control system LCD with switch gear and wiring,
11. Air compressor with air dryer and complete pneumatic installation,
12. Supervision over mechanical and electrical assembly.

The RS.R1, R2 or R3- Milling Module

1. Hammer mill with destoner with power ranging from 160kW to 400kW,
2. Pneumatic transport system with cyclone, fan, pipes,
3. Spark detection system,
4. Pulsating dust filter with fan,
5. Closed dust return system,
6. Magnetic separator.

The RS.B2 Module

- All parts of RS.B1 Module +
1. Pellet mill 320kW,
 2. Mixer with 1 extra dozing screw instead of buffering container.
 3. Chain conveyor extension.
 4. Bigger counterflow cooler, cyclone and fan.



The RS.D1 – Truck Expedition Module

1. Chain conveyor with 2-way distributor,
2. Two pellets silos, 40 tons each, with explosion vent.
3. Truck scale.

The RS.D2 – Big-bag Module

1. Two-way distributor,
2. Two containers 10 tons each with automatic shut-off by pneumatic locks,
3. Two Big-Bag platform scales.



The RS.D3 – Flat Storage Module

1. Two chain conveyors, each 30m,
2. Six pneumatic locks
3. Supporting construction mounted at roof.

PELLETING PLANTS FOR RDF/SRF

RDF / SRF combustible waste is becoming an increasingly popular recyclable raw material, the pelleting of which is a new alternative to traditional recycling methods. It is an excellent fuel for garbage incinerators, coal-powered power stations, cement plants and soon also for other range of customers.

Nawrocki Pelleting Technology has developed a complete technological solution for production of pellets from RDF / SRF, with capacities ranging from 1.5t/h up to 18t/h or even 27t/h.

We provide highly-productive solutions based on our knowledge and experience, which we can easily tailor to individual requirements of the client.

The key to a successful operation of the pelleting plant for processing of RDF/SRF, it is extremely important to select the right matrix die parameters on the

basis of individual tests. The reason for it is physical composition of individual RDF / SRF blends, which can significantly differ depending of supplier and affect the final yield and quality of produced pellets.

RDF (Refused Derived Fuel) is a fuel created in the process of recovery of various types of municipal, industrial or commercial waste with high calorific value. It is prepared on the basis of the most troublesome part of waste that is not suitable for use in the recycling process.

MSW (Municipal Solid Waste), ie municipal solid waste, from which large-scale energy pellets, materials for further recycling and liquid fuel (diesel, after the gasification process) can be produced.

SRF (Solid Recovered Fuel) is a fuel produced by grinding and dewatering of non-hazardous solid waste, including municipal solid waste (MSW).

PELLETING LINES FOR PLASTICS REJECTS

Plastic waste can also be PELLETIZED. The characteristic feature of this feedstock is the very low degree of sticking, which requires implementation of pelleting presses with very high motor power.

Plastic pellets are usually used in the treatment of waste for further re-use as a raw material for production of recyclables added value products. Pelleting processes also reduce transport and storage costs.

For this type of feedstock, we develop each project on the individual basis, as to be able to match the right press parameters, we have to carry out initial in-house tests, which help us to determinate the right type of matrix, compression ratio, etc. To get reliable information during the trials, we usually require at least 1 ton of the raw material.

TURN THIS:



...INTO A PRODUCT



PELLETING PLANTS FOR AUTOMOTIVE SHREDDED RESIDUES (ASR)

NPT has also developed an innovative solution for densification/pelleting of waste derived from shredding of light fraction in car recycling industry, with a capacities of 1,5-12 t / h. We design and implement (for the industrial production) a specialist technology for processing of mixed and grinded waste from cars demolition processes. We have created the following production processes: intake of raw material,

through dosing, pelleting, cooling and cleaning of produced pellets. ASR is 25% post-cycloid waste consisting of the following components: plastics (PE, PVC, PP), elastomers (rubber, chloroprene, ABS), resins (PU, PA, epoxy, styrene), cellulose derivatives (paper, textiles, wood)), natural (skin). Pellets from ASR are used in garbage incineration plants, as fuel for furnaces in a cement plant, for charging for pyrolytic systems, plasma gasifiers.



FROM WASTE:



INTO A VALUABLE SOLID FUEL:





RS.D3 – Flat storage module

NEED ADVISE OR LOOKING FOR THE RIGHT SOLUTION FOR YOUR BUSINESS?

CONTACT US TODAY TO DISCUSS YOUR PROJECT

WORK WITH US **NAWROCKI PELLETING TECHNOLOGY LTD**

Working with us:

- complete technological project design of pelleting solution for processing of wet and dry waste,
- comprehensive description and implementation of all important pelleting plant components & sections, such as: grinding, drying, mixing, granulating, cooling, aspiration, expedition, packaging, automation and power supply
- selection of the correct matrix die based on previously tested raw material
- performance guarantee
- warranty and post-warranty services
- delivery of the highest quality spare parts and consumables.





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