

So simple.

Until now biomass was harvested and pressed together on the field and then transported to a pellet production facility. There the bales were torn open and prepared, and finally pelletised and stored. This is how it was done in the past, because with the Schaidler Pelletec D 8.0 everything can be done in a single process directly on the field. The Schaidler Pelletec D 8.0 can also be operated in a stationary manner.

So quick.

Traditional operations and transport routes between harvest on the field and pellet production in a factory cost valuable time. You can now save time because the Schaidler Pelletec D 8.0 produces pellets directly at the location of the crop – on the field. An additional advantage is the excellent performance of the Schaidler Pelletec D 8.0 which can process 8 tons of biomass per hour and turn it into ready-to-use pellets.

So economical.

Patented technology used for the first time in the Schaidler Pelletec D 8.0 and a Symmetric Double Ring-System (SDR) make it possible to reduce energy usage to below 3 %. Additionally, there is also a savings potential because of reduced transport and storage costs with regard to starting material.



Pellets as bedding.

Straw pellets can be used especially well for bedding and can also be used as manure.



Pellets as animal feed.

Pelletised forage plants such as pellets from alfalfa, hay and straw make an excellent basis for a feed ration.



Pellets as sources of energy.

Pelletised energy crop can be used for heating since they have a high caloric value.



Pellets as fertiliser.

Fermentation residues from biogas plants can be pelletised and added to standard fertiliser.



Pellets for industrial uses.

The future has begun: grass paper, 2nd and 3rd generation biofuel, insulation – only a couple of examples of futures uses.

This is how the Schaidler Pelletec D 8.0 functions



Bunker and delivery belt
Stores and cools pellets



Pellet strainer
Removes dust from finished pellets



Compressor
With the help of the patented SDR system, compresses the material to finished pellets in the amount of 8t/hour (mean value)



Preheating – conditioning
Uses engine waste heat to heat up the material to 70 °C which makes it possible to mix in additives.



Drive system
6 cylinder in-line industrial engine, 18.1 litre capacity, 447 kW (600 HP) (C18)

Pelletising system
with diesel engine (8t/h) (D 8.0)

Carrying trailer
with parabolic suspension (TRO 30.0)
Carrying trailer
with hydraulic suspension (TRO 30.1)

Fine shredder
Shredding material according to the circumference of pellets (FCR 8.0)

Tractor
at least 200 HP
e.g. Belarus 2022.6
or Belarus 3525.6



Field chopper
Pre-crushing of the material (CFH 8.0)

Connection for the transport of material
Connection between the shredder and Pelletec D 8.0 (CTC 8.0)



Pickup
Collecting material from the windrow (PIU 3.0)



Row-less cutting system for the field chopper
Cutting and collecting rough material (RIH 3.0)



Cutting system for whole plants
Cutting and collecting straw-based materials (GHH 4.2)

Trolley for the field chopper
For safe driving on the street (CWH 8.0)



Profitability at a glance

Profitability calculation Schaidler Pelletec D 8.0

Operating hours p.a.	1500	1000	500	250
Fixed costs*)	51	77	154	308
Repairs & Service**)	56	56	56	56
Fuel	100	100	100	100
Labour costs	30	30	30	30
Total	237	263	340	494

Pelletisation costs per ton	in Euro	30	33	43	62
Pelletisation costs per kg	in Cent	3	3,3	4,3	6,2

Calculation parameters:

- *) Fixed costs components:
- Interest rate (6% from the half of original value)
 - Storage and insurance (2% of new value)
 - Depreciation (6% of new value)

**) 0,008 % of new value p.h. in accordance with ÖKL 8 t output p.h.

Pricing:

Schaidler Pelletec D 8.0	
Trolley	
Tractor	
Shredder	
Euro	700.000

Additional facts at a glance

- Processing capacity: up to 8,000 kg per hour depending on the processed biomass
- Pellets circumference: 2–16 mm according to the used matrix
- Payback period: at least 2 years (depending on the application)
- In combination with the cutting system for whole plants GHH 4.2, it can also be used as a combine harvester

Pellets made from straw, hay, alfalfa, energy crop, residue, etc.
Production is so simple, quick, economical as never before.



The mobile harvester Schaidler Pelletec D 8.0
Producing up to 8 tons of ready-for-use pellets per hour directly on the field.

The mobile harvester Schaidler Pelletec D 8.0

