

*The effective technology
and complex services*

Farmet[®]

HORIZONTAL AGRICULTURE TOGETHER WE TRANSFORM YOUR HARVEST INTO PERFECT FEED



**OBTAIN YOUR OWN FEED THROUGH EFFECTIVE
PROCESSING OF SOYBEAN.**

OIL & FEED TECH



**HEXANE FREE
TECHNOLOGIES**[®]

SOYBEAN PROCESSING: WHAT DO WE OFFER? “Mechanical processing of soybean with Farmet”

- Hexane free technology Farmet is cost-efficient and environment-friendly.
- Oil content of 7 % is an ideal ratio for all livestock, resulting in an optimal feed for every type of animal.
- Hexane free technology Farmet brings you an ideal feed with an optimal ratio of fat (energy) and proteins.
- Thanks to the hexane free technology Farmet you obtain the most effective feed at minimal costs.
- Reduced operation costs thanks to maximized recuperation in Farmet technologies.
- Integrated technological solutions guarantee minimal operation costs.



SOYBEAN – A CROP OF THE FUTURE

- IRREPLACEABLE SOURCE OF PROTEIN
- HIGH PROTEIN CONTENT WITH A BALANCED RATIO OF AMINO ACIDS
- WORLDWIDE INCREASE OF CROP AREAS AND PRODUCTION
- INCREASING DEMAND FOR SOY PRODUCTS

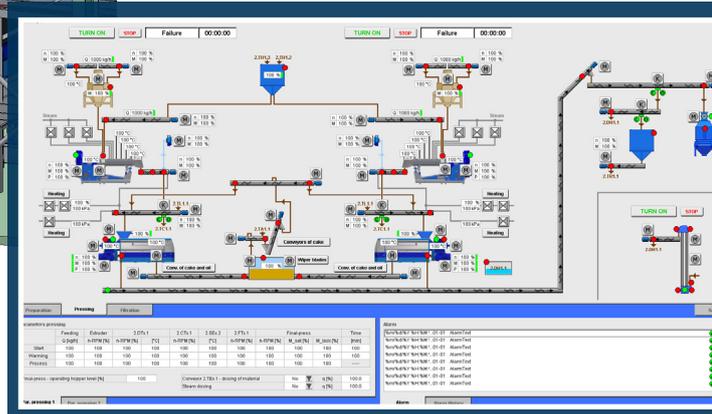
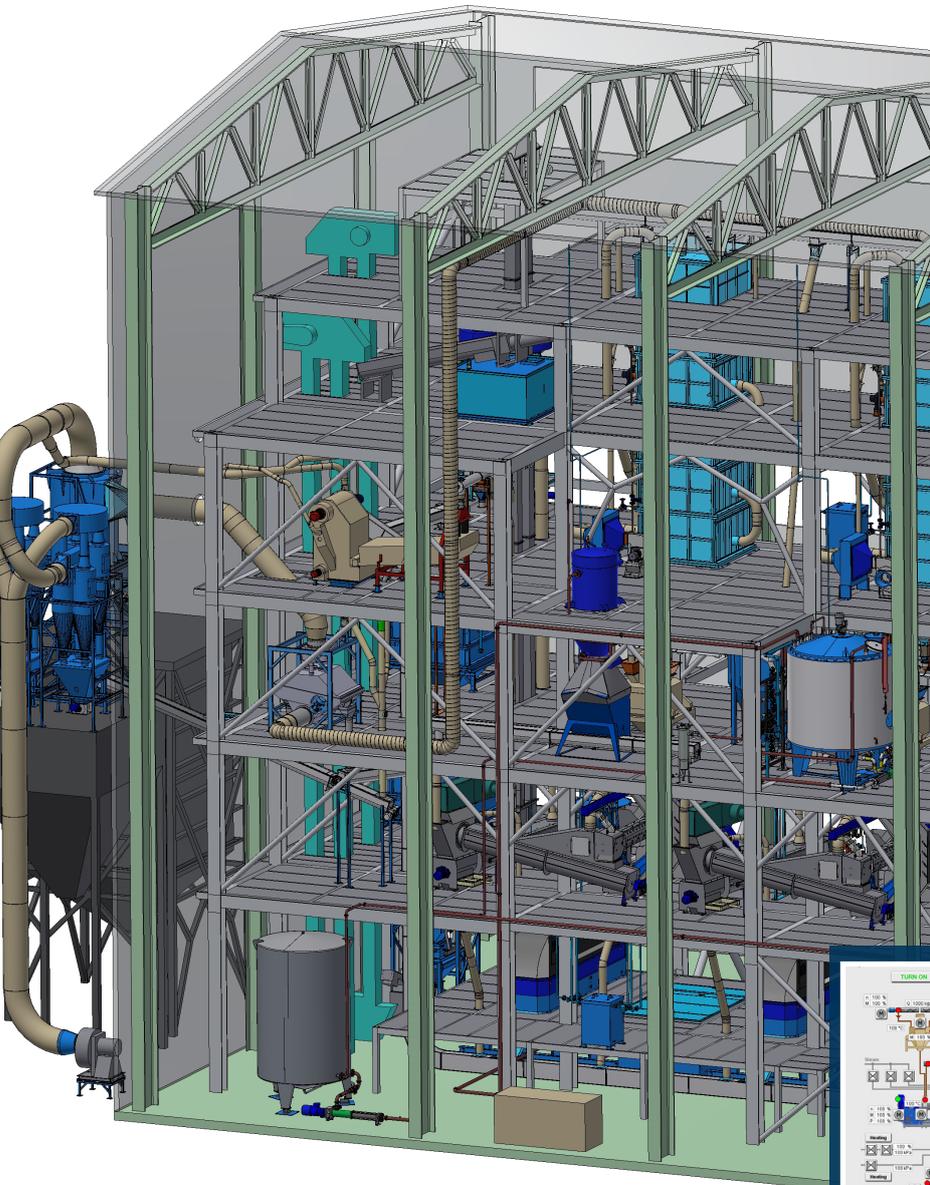
**!!! WITH FARMET YOU OBTAIN A HIGH QUALITY OIL
AND FEED, BOTH DEVOID OF ANY EXTRA CHEMICALS
(SUCH AS CARCINOGENIC HEXANE)!!!**

SAFE FOOD = SAFE FEED

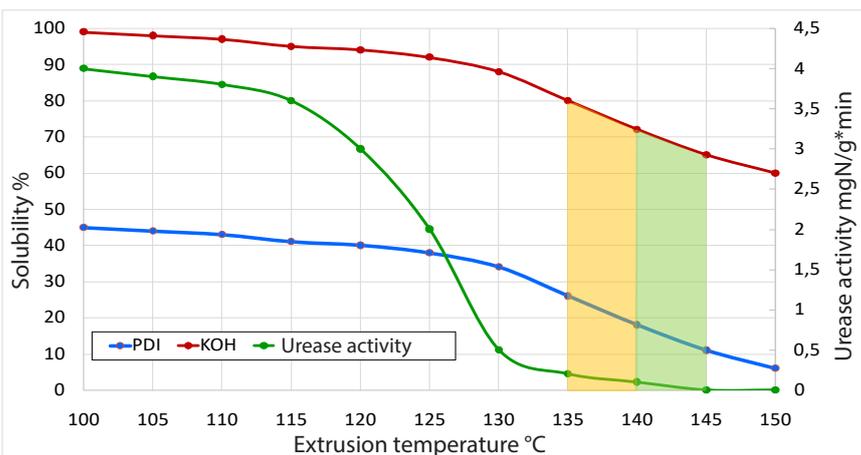
HEXANE FREE TECHNOLOGY FARMET IS AT THE SAME TIME THE MOST ECONOMICAL AND MOST EFFECTIVE SOLUTION CURRENTLY ON THE MARKET.

**SOYBEAN PROCESSING
PLANT IN RUSSIA
- 100 000 TONS/YEAR**

- **TECHNOLOGY EP1
(SINGLE-STEP PRESSING WITH
EXTRUSION)**
- **PRODUCTS:**
 - SOYBEAN OIL
 - SOYBEAN CAKE
 - FULL FAT SOY
- **RECU - UNIQUE SYSTEM FOR
RECUPERATION OF FLASH STEAM**



**PROTECTED PROTEIN FRACTION THANKS
TO HIGH LEVEL OF AUTOMATION
IN FARMET TECHNOLOGY.**



**DEPENDENCY OF PROTEIN SOLUBILITY
(PDI, KOH) AND UREASE ACTIVITY
ON EXTRUSION TEMPERATURE.**

- Optimum value for monogasters
- Optimum value for ruminants (polygasters)

**TREAT YOUR LIVESTOCK WITH
A FRESH AND QUALITY FEED.**

UNIQUE COMBINATION OF EXTRUDERS & SCREW PRESSES



SAFE FOOD = SAFE FEED WITH FARMET HEXANE FREE TECHNOLOGIES



	Raw soybean	Extruded soybean	Extruded and pressed soybean	Extracted soybean meal
Water	12 %	7 %	5 %	12 %
Fat	21 %	21 %	7 %	2 %
Urease activity	2 – 10 mg N/g/min		up to 0,4 mg N/g/min	
Trypsin inhibitor	75 – 115 mg/g	2 – 5 mg/g	2 – 5 mg/g	2 – 5 mg/g
Protein	40	40	44 – 47	40 – 48

SOYBEAN – TRANSFORMATION OF PROTEIN FRACTIONS IN RUMINANTS ACCORDING TO THE CORNELL SYSTEM

Fraction	Before extrusion	After extrusion	
A2	87 %	21,5 %	Protein fractions and other nitrogenous substances fully degradable within rumen.
B1	10 %	76,8 %	Protein fractions slowly degradable within rumen, partially transient to small intestine.
B2	2 %	0,4 %	Protein fractions non-degradable within rumen, fully transient to small intestine.
C	1 %	1,3 %	Indigestible.