Baertschi
Perma-Agrartecnic

OEKOSEM 6R750
ROTOR–STRIP-TILL SYSTEM



Reduced Time and Fuel

Combining multiple operations into a single step significantly reduces operating time and diesel consumption.

Reduced Erosion

By leaving up to 60% of the surface undisturbed, soil is protected from erosion and its structure is preserved.

HEALTHIER SOIL

Aerating the root zone promotes natural, long-lasting aeration, improving water and nutrient absorption.

Targeted fertilization

Precisely placed fertilizer in the root zone ensures optimal nutrition, reduced losses, and higher yields.

OEKOSEM 6R750 | +41 41 9898 111 | info@baertschi.com | www.baertschi.com

Oekosem 6R750



60%	450cm	6×75cm
UNWORKED SURFACE	WORKING WIDTH	INTER-ROW

ROTOR-STRIP-TILL SYSTEM



Why choose Oekosem Rotor-StripTill?

The Oekosem Rotor-StripTill system, proven in Switzerland for more than 25 years, processes only 40% of the soil surface while leaving the remaining 60% undisturbed. This conserves moisture, limits erosion, and promotes soil health. Residue management, subsoiling, fertilization, and seeding are completed in a single operation, reducing costs and supporting consistent yields—even under drought conditions.

ADVANTAGES

- A single step
- Reduced labor costs
- Greater soil moisture
- Reduces soil erosion
- High and consistent yields
- Reduced diesel consumption

CONTROL OF THE EUROPEAN CORN BORER

The Baertschi Duo-Drill efficiently shreds corn stalks and root stumps to prevent corn borers from overwintering, while enabling cover crops to be sown in a single operation.

Technical Data Sheet

Dimensions

File count	6
Inter-row	75 cm
Operating width	450 cm

Performance

Subsoiling Professor	20-35 cm
Professor of Milling	7-15 cm
Tractor power	120-140 CV

Construction

Traction	Four-wheel drive
Tires	44 inches, suitable for field use
Chassis	Fine-grained steel
Service life	30+ years
Attack	Three-point lift
Compatible seed drills	Standard, semi-mounted precision seed drills



Protect the soil with Oekosem.



Developed in Switzerland more than 25 years ago, the Oekosem Rotor-StripTill system was designed with a specific objective: to protect the soil while enhancing productivity. Rather than cultivating the entire field, it works only within narrow seed strips, leaving the soil between the rows undisturbed. This method ensures:

- Reduces wind and water erosion
- Reduces soil compaction
- Preserves structure and moisture
- Enhances soil fertility over time

Over the years, the system has been continually refined through practical experience and farmers' feedback. Today, its effectiveness is well established: nearly 40% of the corn grown in Switzerland is cultivated using this method, thanks to:

- Dependable returns
- Lower operating costs
- Sustainable Soil Protection



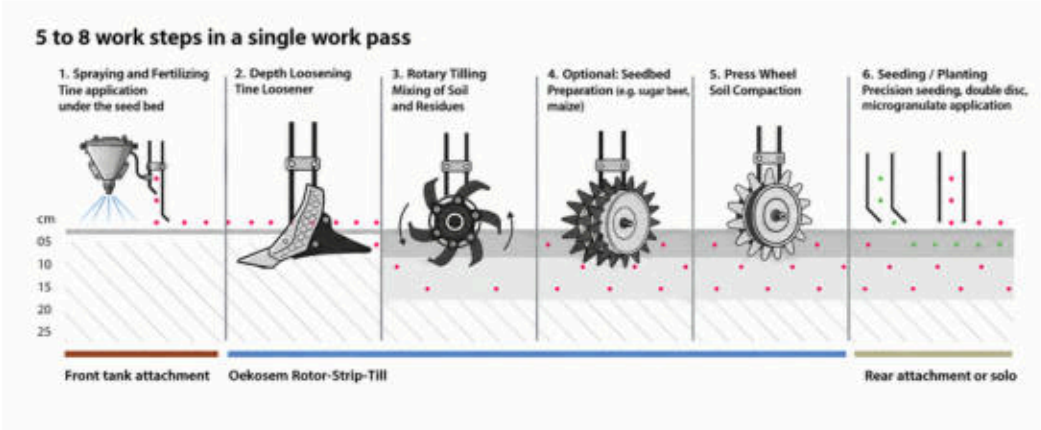


Traditional (plow/harrow)



Oekosem

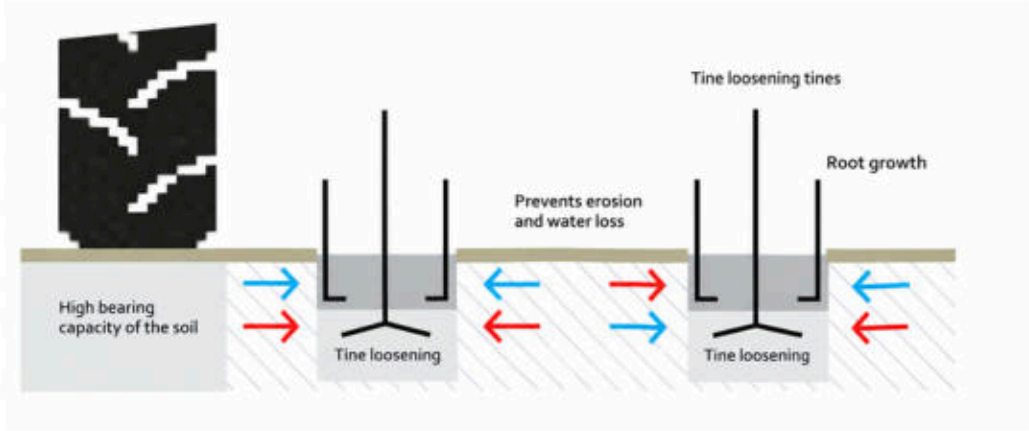
How the System Works



In each row, a subsoiler tine positioned beneath the tiller gently aerates the soil without excessive mixing.

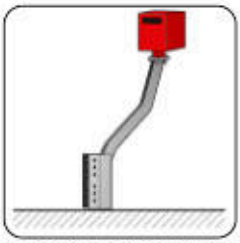
While using milling tools:
They till the upper 7–15 cm of soil, depending on the selected depth.

- They incorporate crop residues into the soil.
- They enhance soil aeration.
- They create a fine, uniform seedbed.



FERT-MIT & FERT-AUS

Two patented systems, one objective:
Nutrients precisely where the roots need them.



FERT-AUS: deposit at a depth of 16–25 cm

FERT-AUS®: the deep-deposit fertilizer FERT-AUS delivers fertilizer to the subsoiler's foot, depositing it in concentrated form at a depth of 16–25 cm within the tilled area accessible to the roots. The nutrients are positioned where the roots will grow, ready for plant uptake. Even deeper. An exclusive, patented option.

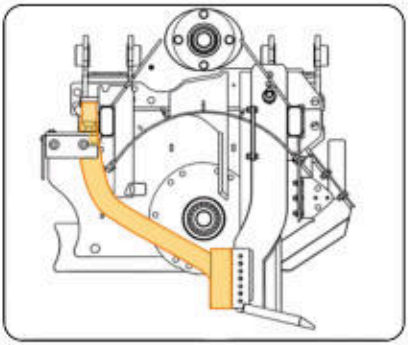


FERT-AUS mounted on the subsoiler tine

What is the depth of your field?

Oekosem subsoils, works in strips, and fertilizes in a single pass. Select the desired depth:

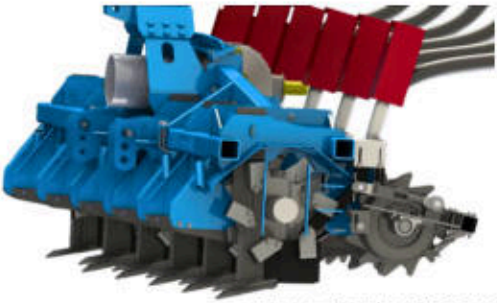
- **FERT-MIT (standard):** deposit in the center of the strip at a depth of 10–16 cm.
- **FERT-AUS (option):** concentrated deposit at 16–25 cm, or even deeper.



FERT-MIT: standard, 10–16 cm

Advantages of FERT-AUS

✓ Nutrients in the root zone
✓ Improved nutrient efficiency
✓ Reduced runoff losses
✓ More uniform plant development
✓ Fewer passes and lower diesel consumption
✓ For corn, rapeseed, sugar beet, and row crops



Oekosem with optional FERT-AUS

Sowing with Rotor Strip-Till

A field test

Excerpt from the results published on landwirt.com in January 2014

Test Site 1

Oberlimbach, Styria

Corn grain

DRY MATTER (%)	
Strip-till milled	**74,1 %**
Minimal processing	**73,8 %**
Plowing	**71,9 %**

TRAVEL (86% SS, KG/HA)	
Strip-till milled	**7,920 kg/ha**
Minimal processing	**7,840 kg/ha**
Plowing	**7,780 kg/ha**

COMPARED WITH PLOUGHING (%)	
Strip-till milled	**102 %**
Minimal processing	**101 %**
Plowing	**100 %**

102 % **Higher yields than ploughing**

Test Site 2

Bad Wimsbach-Neydharting (Upper Austria)

Corn grain

DRY MATTER (%)	
Minimal processing	**64,6 %**
Direct seeding	**64,9 %**
Strip-till milled	**63,9 %**
Plowing	**63,8 %**

TRAVEL (86% SS, KG/HA)	
Strip-till milled	**9,611 kg/ha**
Minimal processing	**8,938 kg/ha**
Plowing	**8,625 kg/ha**
Direct seeding	**6,044 kg/ha**

COMPARED WITH PLOUGHING (%)	
Strip-till milled	**111 %**
Minimal processing	**104 %**
Plowing	**100 %**
Direct seeding	**70 %**

111 % **Higher yields than ploughing**

Highest Yield Among All Methods

Oekosem: The All-Season Machine



Primary areas of application

Oekosem is available in various configurations to meet every business requirement.



Maize
Ideal for corn cultivation, it reduces erosion, retains heat and moisture, and supports consistent yields in both drought and heavy rainfall.



Rapeseed, sunflower, and quinoa
Optimal when used with the Baertschi Duo-Drill seeder. Double-row sowing enhances root development, aeration, nitrogen fixation, and silique formation, resulting in higher yields.



Sugar beet
The Oekosem-P levelling shaft creates a finely prepared seedbed in a single pass, promoting uniform emergence, earlier sowing, greater load-bearing capacity for harvesting machinery, and higher yields.



Cabbage, vegetables, strawberries, and aromatic herbs
Ideal water conservation: No-till strips reduce erosion, prevent compaction, enhance load-bearing capacity for harvesting equipment, and preserve high soil moisture levels to improve yields.



Legumes and soybeans
Compacted strips reduce compaction, while increased light and humidity support well-developed pods and consistent yields, even during heavy rainfall or drought.

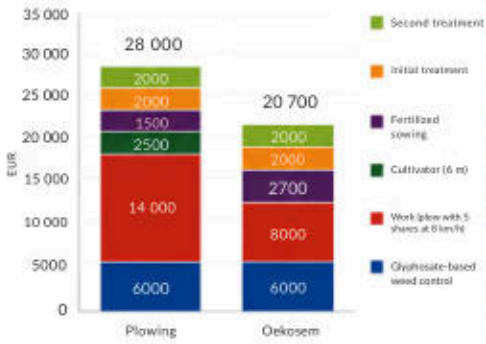
Oekosem versus plowing

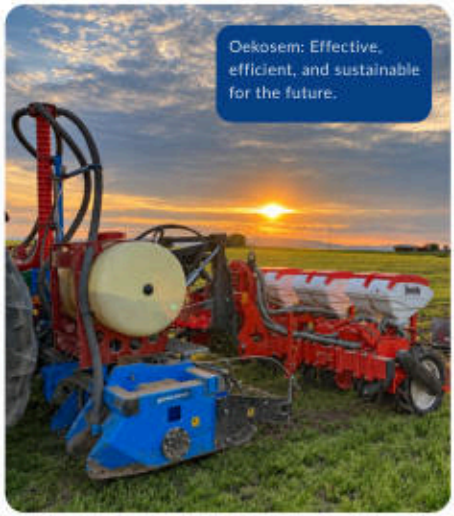
Costs -26%

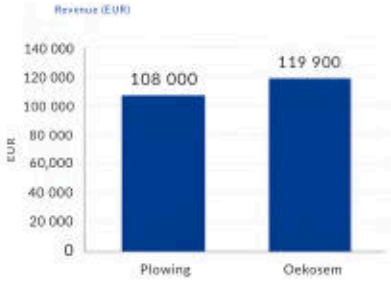
Yield +11%

Net income +24%

COST SUMMARY (EUR)







KEY ADVANTAGES

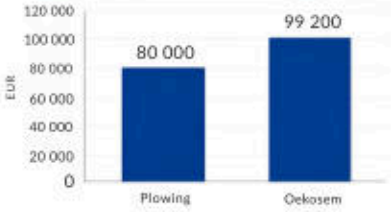
Costs: -26%
You save €7,300 on 100 hectares.

Yield: +11%
Higher yield from an equivalent surface area.

Net profit rose by 24%.
€19,200 in additional profit per 100 hectares

Better for the soil and for the future
Reduced tillage, improved soil structure, and enhanced sustainability

NET PROFIT (REVENUE – COSTS, IN EUR)





SUMMARY

The Oekosem Rotor-StripTill technique reduces production costs, increases yields, and improves profitability compared with traditional tillage while preserving soil and establishing the foundations for sustainable agriculture.

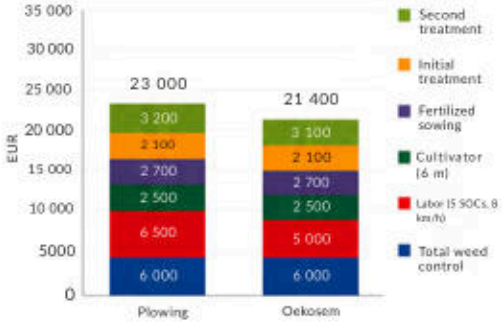
Oekosem vs. Minimal Tillage

Costs
-7%
Savings of €1.600 per 100 hectares

Yield
+7%
+469 units per 100 hectares

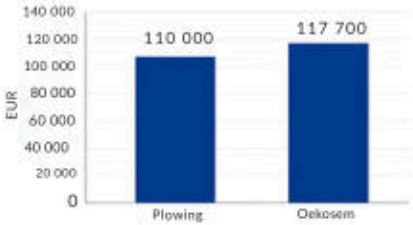
Net profit
+11%
+€9,300 for 100 hectares

Cost Summary (EUR)

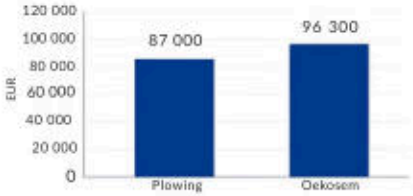




REVENUE (EUR)



NET PROFIT (REVENUE – COSTS, EUR)



Key Advantages

Costs: -7%
You save €1,600 per 100 hectares.

Yield: +7%
Higher yield from an equivalent surface area.

Net profit: +11%
€9,300 in additional profit across 100 hectares

Better for the planet and for future generations
Reduced tillage, improved soil structure, and enhanced sustainability



SUMMARY

The Oekosem Rotor-StripTill technique reduces production costs, increases yields, and improves profitability compared with minimum tillage, while preserving soil health and laying the foundation for sustainable agriculture.

Replacement Components

Picture	Item No.	Article number	Drawing number	designation
	**001**	9000003	558504000000	Bondioli gearbox (360 horsepower)
	**002**	9018821	DS0N101CE0Q7001X	Drive shaft featuring a cam-type clutch, 3600 Nm – 1000 rpm (770.9901.XX)
	**003**	–	999.2987.0	Drive shaft featuring a cam-type clutch 1800 NM (170 PS starr)
	**004**	93599037	999.2989.0	Cardan shaft featuring a cam-type clutch rated at 2500 Nm (right)
	**004**	93599038	999.2989.1	Cardan shaft featuring a cam clutch rated at 2500 Nm (left)
	**005**	93599059	773.6525.01	Drive flange milling rotor to gearbox shaft (Oekosem VI – 8R750)
	**006**	93599058	770.1114.01	Bearing unit for external milling rotor (Oekosem VI – 8R750)
	**007**	9002698	770.1746.00	Left milling cutter
	**008**	9002696	770.1745.00	Right milling cutter

Replacement Components

Picture	Item No.	Article number	Drawing number	designation
	**009**	93599057	773.3034.00	Milling box protection – Polyamide (Oekosem VI – 8R750)
	**010**	9008985	–	Lower link pin Category 3
	**011**	9018393	–	Top link pin Category 3
	**012**	93599056	773.9197.00	Compression spring for damping unit (Oekosem VI – 8R750)
	**013**	93599055	999.2505.00	Tension spring – folding locking mechanism (Oekosem VI – 8R750)
	**014**	93599054	773.1401.00	Cultivator tine devoid of wings, featuring a hollow tube and funnel (Oekosem VI – 8R750)
	**015**	9017953	773.1400.00	Cultivator tines devoid of wings

Replacement Components

Picture	Item No.	Article number	Drawing number	designation
	**016**	9000639	771.1237.00	Wide scraper plate, 773.7743.00
	**017**	9017681	SIMA kit heat exchanger	Kit Thermometer for 2 Rotors
	**018**	9000031-360PS	SIMA exit wave	Gearbox output shaft (lower) for 360HP gearbox
	**019**	9018819	SIMA protective pot primary drive POS3	Protective casing for drive shaft
	**020**	9018858	SIMA pump drive shaft - POS8	Pump drive shaft for Oekosem 360PS cooling apparatus
	**021**	9018859	SIMA-Pumps small (HPLPA14 – Viton) - POS9	Small pump for Oekosem 360PS gearbox (HPLPA148-Viton)
	**022**	9018820	SIMA Kit Protection (3 pieces/set)	Bondioli complete set driveshaft guard for PTO
	**023**	–	773.1159.01	Wear strip, including screws and bushings.

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The dates are available on our website.

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Benefit from favorable terms through our contractors. Request a demonstration sowing at your farm.