

Profi 60 / Profi 90



The optimum soil-sampling equipment for determination of nitrogen

- ✓ Fully automatic
- ✓ Highest reliability
- ✓ Operation from the driver's seat
- ✓ For nitrogen and standard sampling
- ✓ No sample loss when drilling is stopped

For more than 30 years Fritzmeier Umwelttechnik is engaged in developing soil analyzing techniques.

The patented direct guiding of the auger provides representative soil samples.

15 drills result in a composite sample of 300 to 400 grams per layer of soil which can be completely used for an analysis.

All implements are suited both for N_{min} and standard samples. The augers are coated with a special layer that guarantees long-lasting durability.

More Information More Yield!



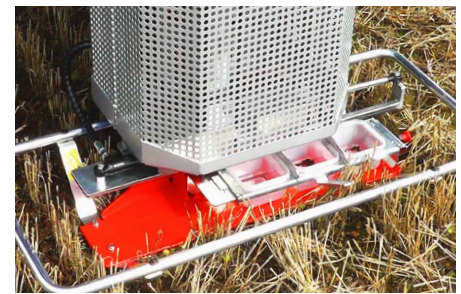
Advantages at a glance

- ✓ Patented, noiseless sampling principle; fully automatic sampling by filling the drill threads when screwing in and pulling out the auger without any rotation. Metallic aglets clear the threads and deposit the samples up to three desired depths during the following drilling procedure
- ✓ Especially designed drilling geometry for suited sample sizes, little energy demanded for torque, little soil compaction, good elasticity of the auger in the soil resulting in extended lifetime
- ✓ Comfortable operation and monitoring of the drilling process via touch screen from the driver's seat
- ✓ The period of one machine cycle is noticeably less than one minute.
- ✓ Robust control devices and electromechanics provide very high operational reliability
- ✓ Low-maintenance induction sensors monitor reliably the state of the mechanic and hydraulic system
- ✓ After detection of obstacles in the soil, the system control enables the correct allocation of samples during process continuation at up to 100 directly successive drill cycles with obstacle hits
- ✓ Simple and quick exchange of the only two wearing parts: auger and clearing aglets



Mounting position

The system has been designed for mounting onto the three point linkage of the tractor, however it can also be easily mounted on compact all-terrain vehicles or pick-ups



Sampling

The implements of the Profi series allow the optimum sampling for quick nitrogen analysis

TECHNICAL DATA		PROFI 60 / 90	
Drive mechanism	hydraulic	Efficiency N_{mm} (composite samples per hour) Ø 6 - 8 / Ø 6 - 8	
Hydraulic connector	plug SVK-12L	Weight	235 kg / 240 kg
required volume flow	min. 20 l/min - max. 120 l/min	Width	113 cm / 113 cm
recommended pressure range	min. 100 bar - max. 250 bar	Depth	80 cm / 80 cm
Mounting cat	1,2 and 3	Height folded out	263 cm / 294 cm
Sampling tool	drill spindle	Automatic stone safety device	option / option
Electric system	12V 10A	Max. drilling cycle	30 sec.* / 40 sec.*

* at optimal conditions

Profi 60 and Profi 90 are certified by the
Bavarian State Research Centre for Agriculture
(Landesanstalt für Landwirtschaft in Bayern).



Fritzmeier Umwelttechnik GmbH & Co. KG
Dorfstraße 7
85653 Großhelfendorf / Germany

Tel: +49 (0) 8095 - 87 339 - 408
Fax: +49 (0) 8095 - 87 339 - 472
Mail: umwelt@fritzmeier.de