

## Parcelgyllsprederen ved Askov Forsøgsstation – opbygning og virkemåde

*The equipment for application of liquid manure at  
Askov Experimental Station – description and mode of operation*

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### Resumé

Forsøgsudstyr til udbringning af flydende husdyrgødning, hovedsagelig gylle, i parceller (2,5 m×12 m) er udviklet.

Med de 3 udviklede udbringningsmoduler kan gyllen bredspredes, udlægges med slæbeslanger eller nedfældes direkte. Doseringen foregår ved peristaltiske pumper (slangepumper) på de enkelte udbringningsmoduler. Pumpernes omdrejningshastighed er computerstyret og beregnes ud fra fremkørselshastigheden.

**Nøgleord:** Forsøgsudstyr, gyllespreder, nedfælder, udlægger, bredspreder.

### Summary

Equipment for application of liquid manure, mainly slurry, in experiments with small plots (2.5 m×12 m) has been developed.

The 3 developed application units allow slurry to be applied by broad-spreading, band laying (trail hose) or direct injection.

The application rate is regulated by peristaltic pumps, mounted on each application unit. The rotation speed of the pumps is regulated by a computer. Calculations are based on speed measurements of the rear wheel of the tractor.

The variation between peristaltic pumps

Variationen mellem de peristaltiske pumper, dvs. på tværs af køreretningen, er 1-3 pct., mens variationen på langs ad køreretningen er 2-4 pct. Normalt kan udstyret dosere i intervallet 10 til 100 t pr. ha.

De opstillede krav om gode spreedeegenskaber, forudbestemmelig dosering, driftssikkerhed, minimering af start- og vendeplads, samt let og hurtig ændring af udbringningsprincip er opfyldt.

(across driving direction) is 1-3 per cent, while the variation along the driving direction is 2-4 per cent. Normally, the application rate can be adjusted in the range 10 to 100 ton per ha, but for some slurries less than 4 ton per ha can be applied.

High standards with regard to uniform spreading properties, predetermination of application rate, reliability minimizing of area for starting and turning the equipment, easy and fast changing of application method were met.

**Key words:** Experimental equipment, slurry spreader, injection, band laying, broadspreading.