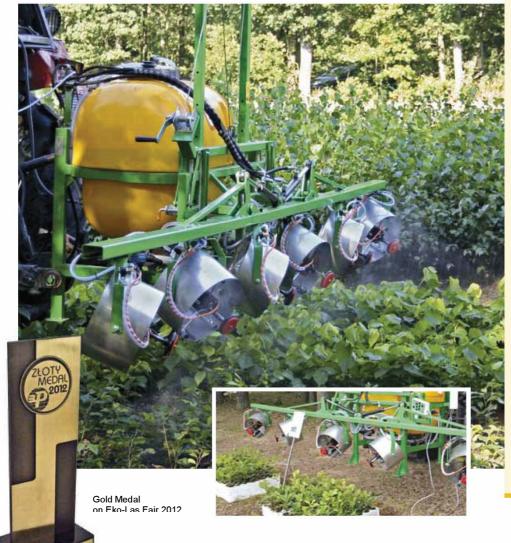


1.11 SPRAYER FOR TREE NURSERIES OS-1 OS-1 Sprayer



CDA sprayers' elements have been applied in the OS-1 sprayer (spinning disc atomisers) – well known to Polish foresters thanks to Herbaflex devices – "chemical scythes" used for many years in Poland, as well as thanks to aviation atomisers used to fight down black arches.
OS-1 sprayer (working in CDA technology – controlled droplet application) designed to work in arboretums is a treator mounted.

technology – controlled droplet application) designed to work in arboretums is a tractor mounted sprayer based on Micron Electafan heads. The device is equipped in six spraying units mounted on a self-leveling bar which enables simultaneous spraying of 3 lines in a nursery. The main bar can be set on various heights depending on the requirements. Working direction and angle of the sprayers are fully adjustable. A liquid is dosed from a 300 or 100 litre container. Each of the spraying modules is connected to a separate on/off switch and a valve supplying the liquid. The main flow valve enables liquid mixing and adjusting the amount supplied to the spraying units.

TECHNICAL PARAMETERS

TECHNICAL PARAMETERS		
Parameter	Value	
Туре	Mounted a on tractor's three-point hitch	
Transport width	2200 mm	
Working width	5500 mm	
Height	2200 mm	
Spraying modules number	6 pcs	
Own weight	350 kg	
Weight with working liquid	550 kg	
Minimum required tractor power	50 HP	
Container capacity	200	
Container for hand-washing liqiud	71	
Recommended working speed	from 3 to 5 km/h	
Handling staff	1 – tractor operator	



SPRAYER FOR TREE NURSERIES OS-1

1.11

OS-1 Sprayer

Controlling the work of individual units (as well as folding and unfolding the arms) is performed from tractor's cabin without leaving the cabin.

CAUTION

- When aggregating with a tractor particular attention should be paid to a proper attachment of hydraulic cables, especially of the quick couplers. Blocking any of the quick couplers will result in damaging the hydraulic motor powering the alternator of the power supply.
- 2. The sprayer is assembled in two production versions:
- with an electric power supply (OS-1/a) powered by tractor's hydraulic system. Hydraulic oil flow of 25-30 l/min is enough to power the alternator at a pressure of 20-30 bars (0,2-0,3 MPa).
- Without electric power supply (OS-1 simplified version) where electric power is taken from the tractor's electric system. It is required to assemble an additional socket providing electric current of up to 80A 12V.

Spraying system:		
- heads with atomisers	pcs	6
- head rpm	rpm	8000
- voltage	V	12 V DC
- head engine power	W	120
- average liquid flow from head	ml/min	ok. 170
- vertical adjustment range	0	without limits (usable 180°)
- horizontal adjustment range	0	180° (usable 90° - towards the rear end
		from the vertical axis)
Working speed range	km/h	3÷10
Transport speed	km/h	up to 15
Operating staff required	people	1 person
Hydraulic system:		
- recommended pressure	MPa	
- recommended flow	dm³/min	
Required tractor's class	kN	min. 0,6