RECYCLING-(OVER-ROW) CROSS FLOW FAN UNIT GSG

up to 40 % agent use reduction
95 % loss reduction approved
no restriction



viniculture I fruit growing I tree nurseries I special crops I ornamental plants



Over-row cross flow fan unit



Advantages of using this spraying technology:

- The new fan arrangement (suction- and pressure sides are opposite) reduces the consumption of plant protection agent by up to 40 %, thus achieving JKI* 95 % drift reduction class
- Extremely smooth running at max. speed
- High spraying performance (time saving) due to multirow treatment - up to 4 rows (both sides) are possible with GSG-NV-VM2.
- Improved deposit values due to air-assisted, double-sided application

- More pesticides available
- No problems with neighbouring cultures
- User protection
- Government funding possible
- JKI*-approved, please refer to section "Approved plant protection equipment"
- Mandatory argumentation for organic farms

*JKI = Julius-Kühn-Institut



Modern spraying technology is characterised by:

The greatest benefit is the recycling of the nondeposited plant protection agent.

The recycling sprayer starts in spring - with low foilage - with 70 % recycling rate. With the last spraying and high foliage, there is still a recycling rate of 30 %.

No other agricultural device can withstand this comparison today.

The advantage of the **GSG** unit is that the nondeposited liquid is sucked off by hydroinjectors and returned to the tank again.

Over the entire season, savings up to 40% can be expected.

Spraying - Returning - Recycling!





Nozzle chart



Recycling sprayer

Output per	Driving speed (km/h)	Х	Row distance (m)	Х	Output (I/ha)
nozzle (l/min)	600	х	No. of open nozzles per	tunne	l

Output (I/ba) -	600	Χ	Output per nozzle (I/min)	x No. of open nozzles per tunnel
Output (I/ha)	Driving speed (km/h)	Х	Row distance (m)	

LIPCO cross-flow fan sprayer GSG

En OO cross-now ran sprayer GOO							
Output rate Lechler ID/IDK 90 flat fan venturi nozzle * = 95% loss reduction agreed		Spray		Nozzle size		Pressure range	
				Ω			e maximum nozzle oressure ording JKI!
by JKI / Germany	J	90°		ISO 0	ISO 01 - 03		J
			Output r	ate I/min wi	ith pressure	e in bar	
1	pressure bar	IDK 90-0067C black*	IDK 90-01C orange*	IDK 90-015C green*	IDK 90-02C yellow*	ID 90-025C purple*	ID 90-03C blu*
4	4.0	0.31	0.45	0.68	0.92	1.15	1.37
11	5.0	0.35	0.51	0.76	1.03	1.28	1.53
	6.0	0.38	0.55	0.83	1.13	1.40	1.68
	7.0	0.41	0.60	0.90	1.22	1.52	1.81
11	8.0	0.44	0.64	0.96	1.30	1.62	1.94
	9.0	0.47	0.68	1.02	1.38	1.71	2.06
\mathcal{T}	10.0	0.49	0.72	1.07	1.45	1.81	2.17
*/ *	11.0	0.52	0.75	1.13	1.53	1.90	2.28
3 - 5°	12.0	0.54	0.78	1.18	1.60	1.98	2.38

Nozzle size Output rate Spray Pressure range ALBUZ ® CVI 80° Note maximum flat fan venturi nozzle nozzle pressure according JKI! * = 95% loss reduction agreed by JKI / Germany 80° ISO 015 - 03 Output rate I/min with pressure in bar pressure CVI CVI CVI CVI CVI CVI 80-01 80-025 80-04 bar blu orange* green* yellow* purple red 5.0 1.29 1.55 2.07 0.52 0.77 1.03 6.0 0.85 1.41 1.70 2.26 0.57 1.13 1.22 7.0 0.61 0.92 1.53 1.83 2.44 8.0 0.65 0.98 1.31 1.63 1.96 2.61 9.0 0.69 1.39 1.73 2.08 1.04 2.77 10.0 0.73 1.09 1.46 1.82 2.19 2.92 12.0 0.80 1.20 1.60 2.00 2.40 3.20

Flat fan nozzle approx. $3-5^{\circ}$ crossed against each other.

14.0

16.0

Values apply for water with 20°C, pressure measured directly on the nozzle.

0.86

0.92

Check value prior to application with adequate measuring device. Because of application, refer also to manual.

1.29

1.38

1.73

1.85

2.16

2.31

2.59

2.77

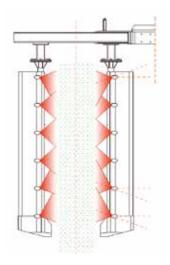
3.46

3.70



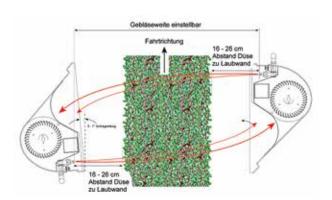
Technology:

With the **LIPCO** fan unit **GSG**, drift is becoming a valuable spray agent. Non-deposited spray agent returns via recycling technology and is filtered back to the spray agent tank. This protects the environment and saves you a lot of money.



Recycling:

New fan arrangement (suction- and pressure sides are opposite) thus consistently high recycling rates, less drift and better deposit of plant protection agent.





Equipment testing:

Worldwide equipment testings with identical good result:

Spray agent is evenly spread on lower- and upper side of the leaves.



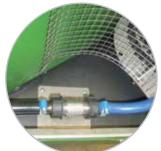
EU funding:

LIPCO recycling sprayer are listed in the register of loss reducing equipment (90 / 95 %), in the German investment funding program for the agricultural sector (Agrarinvestitionsförderprogramm AFP) as well as in the register of loss reducing equipment – reduction of plant protection product, thus EU funding is possible.



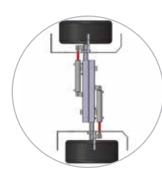


Options / extras:



Recycling pan

 Recycling pan with built-in hydraulic injector and coarse strainer, thus no additional pump required.

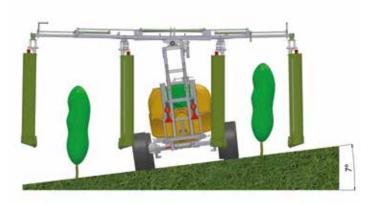


Adjustable axle

- For units **NV** (hydraulic version as option, stroke 2x300 mm / 2x10 in.), wheels are stepless adjustable to max. row width -> smooth running. Driving on public roads with axle adjusted to 2m (79 in.) width.

Slope compensation

compensates up to 7° side slope
 (additional height adjustment necessary)





Own hydraulic

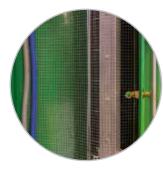
(as option)

– If the tractor has a pump capacity of less than 25 l/min, the hydraulic equipment is usually not sufficient to run **GSG**. In this case, a gearbox with 2 oil pumps is fitted to the plant agent pump. Thus the tangential fans of the implement are independent of the tractor.



Cross flow fan suspension

flexible pendulum suspension





LIPCO QS 150 cross flow fan

- modular system
- with stepless hydraulic drive, flat fan venturi nozzles, individually adjustable
- length from 1.00 3.10 m(39 122 inch)
- PVC lamellas: no corrosion, easy to clean, less weight of the cross flow fans
- less drift: Air needed is not suctioned from outside the tunnel but from inside. So no air has to be pressed to the outside.
 The result: better air circulation and less drift.



Options / accessories:



Hydraulic pivoting drawbar

 plant protection agent pump of all **LIPCO** trailer units is mounted on the drawbar thereby maximum angle of turn without wide-angle PTO shaft



Nozzle lighting

 indirect lighting of nozzles for optimal nozzle function control, especially for working during the night



Tandem oscillating axle

- -hydraulic wheel adjustment (left and right side each 300 mm (12 in.))
- –hydraulic dual-circuit brake as an option



Hydraulic height adjustment

- standard stroke 300 mm (12 in.)
- retracting during turning progress
- exact position of the first nozzle



Steering drawbar

 hydraulic drawbar, activation
 via control box (recommended in combination with side slope and/or tight turning radius)



Flat fan venturi nozzles

Flat fan venturi nozzles for large droplet application :

- very good fixation on the leaves
- less drift
- better recycling rate



Working light

- LED. between fans



Filling mixer

mixer for all kinds of plant protection agent



Control system:



LIPCO control box standard

 digital pressure display and control of hydraulic functions via button



LIPCO control box

- digital pressure display and control of hydraulic functions via button
- control of effective spray output



LIPCO control box

- digital pressure display and control of hydraulic functions via button
- control of effective spray output
- regulation of effective spray output, extended modules and interface via documentation



LIPCO control box recycl-pilot

- digital pressure display and control of hydraulic functions via button
- electrical monitoring and control unit with digital display
- incl. on-board computer and automatic row width control as well as geodata
- with control, plot cards and documentation
- free use of spray tools basic (monitoring of spray unit and recording of spray datas)
- operation via tablet or smartphone (Android)



Saddle-mount unit TSA-1

(one row) \cdot without recycling \cdot for 3-point attachment to tractor





Photo: crawler-mounted vehicle with TSA-1



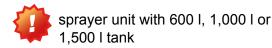
Technical data:

Max. row height	2.20 m (87 in.)
Fan distance adjustable (outer dimension)	0.85 – 1.30 m (33 – 51 in.)
Tank width	1.00 m (39 in.)
Weight	285 kg (630 lbs.)



Trailer unit TSN-1

(one row) \cdot without recycling \cdot for lower link attachment to tractor



saddle-mount unit with one-sided crossflow fan equipment **WITHOUT** recycling





Photo: **TSN-1** / 1,000 I – with tires 10.0/75-15.3 10PR

Technical data:

	600 I tank	1,000 I tank	1,500 I tank
Max. row height	2.20 m (87 in.)	2.20 m (87 in.)	2.20 m (87 in.)
Fan distance adjustable	0.70 – 1.50 m (28 – 59 in.)	0.70 – 1.50 m (28 – 59 in.)	0.70 – 1.50 m (28 – 59 in.)
Tank width	1.00 m (39 in.)	1.14 m (45 in.)	1.24 m (49 in.)
Weight	465 kg (1,025 lbs.)	492 kg (1,085 lbs.)	528 kg (1,164 lbs.)
Standard tires	195 R14C 8PR	10.0/75-15.3 10PR	11.5/80-15.3 10PR



Conversion set GSG-U-VM1/2

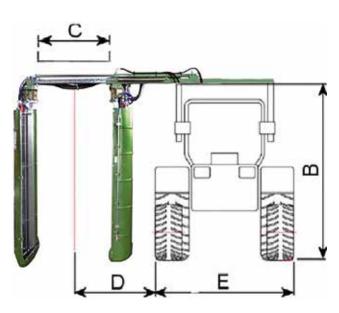
(right/left) · with recycling

For:

- · existing trailer or saddle-mount sprayer
- · mounts on tractor on roll bar, center mounting and leaf-cutting frame



Conversion set with one/two-sided crossflow fan equipment, WITH recycling





Required capacity of plant protection agent pump:

single-row equipment: min. 90-100 l/min double-row equipment: min. 120-130 l/min Required oil capacity from tractor 25 l/min

Technical data:

Max. row height	B=2.20 m (87 in.) (depending on set-up)
Width adjustment	C= up to 1.10/1.30 m (43/51 in.)
Minimum row width	width of tractor/trailer/saddle-mount unit D= movable row space + 0.80 m (32 in.) one-row design D= movable row space + 1.20 m (47 in.) two-row design
Weight	approx. 150 kg/unit (331 lbs./unit)



Attachment kit for trailer and saddle-mount unit GSG-UK-VM2

(two rows) · with recycling · for trailer/saddle-mount unit



For attachment to trailer/saddle-mount unit instead of existing fan-blower unit



Attachment kit with two-sided crossflow fan equipment (hydraulic driven), WITH recycling





Photo: trailer unit with GSG-UK-VM2

Minimum required basic equipment - trailer/saddle-mount unit:

Pump 130 I, 20 bar, incl. pressure filter unit and armature

Oil quantity required from tractor 30 l/min

Base frame with tank and attachment unit

(sufficient base frame stability because of additional weight of 340 kg (750 lbs.) is required)

As option: complete hydraulic equipment including control box

Technical data:

Attachment kit (length x width x height)	0.80 x 2.10 x 2.30 m (32 x 83 x 91 in.)
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43 in. / 51 in.)
Row width	1.70-2.40 / 3.20 m (67-95 / 126 in.)
Weight	approx. 480 kg (1,058 lbs.)



Saddle-mount fan unit GSG-A-VM1

(one row) · with recycling · for 3-point attachment to tractor



saddle-mount unit with one-sided crossflow fan equipment **WITH** recycling and 300 I tank (400 I, 500 I and 600 I tanks instead of 300 I tank are possible)



Technical data:

Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10 / 1.30 m (43 / 51 in.)
Minimum row width	1.50 m (59 in.)
Weight	approx. 420 kg (930 lbs.)



Saddle-mount fan unit GSG-A-VM2

(two rows) · with recycling · for 3-point attachment to tractor



saddle-mount unit with two-sided crossflow fan equipment

WITH recycling and 300 I tank (400 I and 500 I tanks instead of 300 I tank are possible)

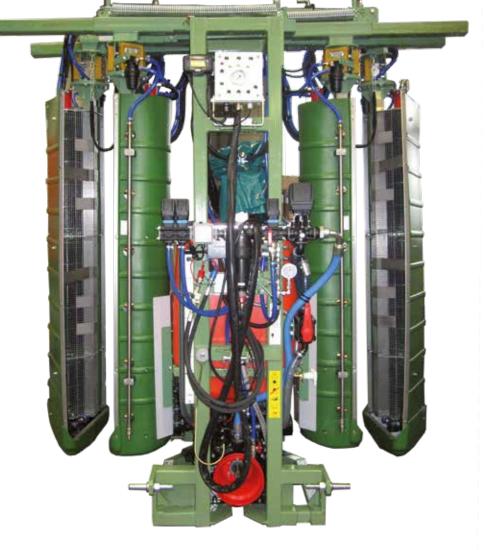


Photo: **GSG-A-VM2** with 300 I tank





Photo: **GSG-A-VM2** with 300 I tank

Technical data:

Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43/51 in.)
Row width	2.00-2.40/3.20 m (79-95/126 in.)
Weight	approx. 520 kg (1,146 lbs)



Saddle-mount fan unit with trailer tank GSG-AN-VM2

(two rows) · with recycling · for 3-point attachment to tractor



saddle-mount unit with two-sided crossflow fan equipment, WITH recycling, combined with LIPCO trailer tank



Photo: GSG-AN-VM2 with trailer tank 1,000 I

Technical data:

Max. row height 2.20 m (87 in.)

Width adjustment up to 1.10/1.30 m (43/51 in.)

Row width 1.40-2.40 m (55-95 in.) - trailer tank 600 l

1.70-2.40/3.20 m (67-95/126 in.) - trailer tank 1,000 l 1.80-2.40/3.20 m (71-95/126 in.) - trailer tank 1,500 l

approx. 480 kg (1,058 lbs.) - without trailer tank

Weight

Tractor requires 1x double-acting operating valve or 1x pressure and 1x free return flow.

Recommendation: total width of tractor wheels min. 1.40 m (55 in.)



Photo: **GSG-AN-VM2** with trailer tank 600 I



Trailer tank for coupling to saddle-mount fan unit GSG-AN-VM2



Trailer tank with tank cleaning nozzle and injector agitator. Filling mixer integrated in filling screen.



Trailer tank 1,500 I, Tires 11.5/80-15.3 8PR

Trailer tank hitch

– eyelet, upright

Technical data:

	Trailer tank	Trailer tank 1,000 I	Trailer tank 1,500 I
Tank width	1.00 m (39 in.)	1.14 m (45 in.)	1.24 m (49 in.)
Outer width including wheels	1.03 m (41 in.)	1.24 m (49 in.)	1.35 m (53 in.)
Total length	2.45 m (97 in.)	2.75 m (108 in.)	2.90 m (114 in.)
Weight	285 kg (628 lbs.)	320 kg (706 lbs.)	348 kg (767 lbs.)
Standard tires	195 R14C 8PR	10.0/75-15.3 10PR	11.5/80-15.3 10PR

(length-adjustable drawbar as standard)



Trailer tank with adjustment shaft GSG-VN-VM2

600 I tank

(two rows) \cdot minimum row width 1.30 m (51 in.) \cdot with recycling \cdot for lower link attachment to tractor



Trailer tank with two-sided crossflow fan equipment, WITH recycling



Technical data:

	GSG-NV-VM2
	with 600 I tank
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43/51 in.)
Row width	1.30-2.00 m/1.60-2.40 m
Row width	(51-79 in./63-94 in.)
Tank width	1.00 m (39 in.)
Weight	approx. 980 kg (2,160 lbs.)
Standard tires	195 R14C 8PR Outer track width min. 1.03 m – max. 1.63 m (min. 41 in. – max. 64 in.)



Photo: **GSG-NV-VM2** with 600 I tank, with tires 195/55-R10C



Trailer tank with adjustment shaft GSG-VN-VM2

1,000 I tank

(two rows) · minimum row width 1.60 m (63 in.) · with recycling · for lower link attachment to tractor



Trailer tank with two-sided crossflow fan equipment, WITH recycling



tandem oscillating axle and tires 225/55-R 12C



Technical data:

	GSG-NV-VM2
	with 1,000 I tank
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43/51 in.)
Row width	1.60-2.00 m/1.70-2.40 m/1.70-3.20 m
Row width	(63-79 in./67-94 in./67-126 in.)
Tank width	1.15 m (45 in.)
Weight	approx. 1,120 kg (2,470 lbs.)
Standard tires	10.0/75-15.3 10PR outer track width min. 1.24 m – max. 1.84 m (min. 49 in. – max. 72 in.)

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Trailer tank with adjustment shaft GSG-NV-VM2

1,500 I tank

(two rows) \cdot minimum row width 1.80 m (71 in.) \cdot with recycling \cdot for lower link attachment to tractor



Trailer tank with two-sided crossflow fan equipment, WITH recycling



Technical data:

	GSG-NV-VM2
	with 1,500 I tank
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43/51 in.)
Row width	1.80-2.40/3.20/3.50 m
Row width	(71-94 in./126 in./138 in.)
Tank width	1.24 m (49 in.)
Weight	approx. 1,250 kg (2,760 lbs.)
Standard tires	11.5/80-15.3 10PR outer track width min. 1.35 m – max. 1.95 m (min. 53 in. – max. 77 in.)



Photo: **GSG-NV-VM2** with 1,500 I tank and tires 225/55-R12



Trailer tank with adjustment shaft GSG-NV-VM2

2,000 I tank

(two rows) · minimum row width 2.00 m (79 in.) · with recycling · for lower link attachment to tractor



Trailer tank with two-sided crossflow fan equipment, **WITH** recycling



Technical data:



Photo: **GSG-NV-VM2** with 2,000 I tank, with tires 23/10.50-12 8PR

	GSG-NV-VM2
	with 2,000 I tank
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10 m / 1.30 m (43 in./51 in.)
Row width	2.00-2.40 / 3.20 / 3.50 m
Now width	(79-94 in./126 in./138 in.)
Tank width	1.42 m (56 in.)
Weight	approx. 1,380 kg (3,042 lbs.)
Standard tires	380/55-17 10PR (flotation) outer track width min. 1.65 m – max. 2.25 m (min. 65 in. – max. 89 in.)



Trailer tank with adjustment shaft GSG-NV-VM2

3,000 I tank

(two rows) · minimum row width 2.40 m (95 in.) · with recycling for lower link attachment to tractor



Trailer tank with two-sided crossflow fan equipment, WITH recycling



with tandem oscillating axle with tires 24/12.00-12 8PR

Technical data:

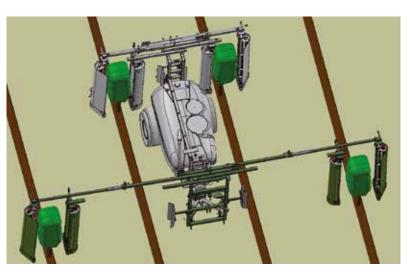
	GSG-NV-VM2
	with 3,000 I tank
Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10/1.30 m (43/51 in.)
Row width	2.40-3.20/3.50 m (94-126 in./138 in.)
Tank width	1.65 m (65 in.)
Weight	approx. 1,840 kg
Standard tires	380/55-17 10PR (flotation) outer track width min. 1.92 m – max. 2.52 m (min. 76 in. – max. 99 in.)





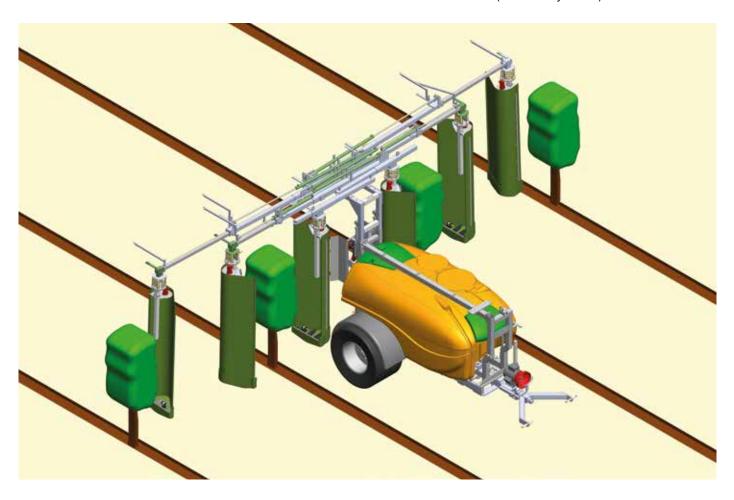
Saddle-mount frame

(two rows) \cdot in combination (extension) with **LIPCO-GSG-NV-VM2** \cdot for double-sided 3- or 4-row treatment





Transport position QS 150 in hinged position (with own hydraulic)





Tires for TSN / Trailer tank / GSG-NV-VM2

Tires for	Size inch	Tire denomination	Rimsize	Tire width	Tracking width (mm)				
GSG-NV-VM				Ø	600 I tank	1,000 I tank	1,500 I tank	2,000 l tank	3,000 I tank
Oscillating tandem axle	10	195/55-R10C	5/67/112	195/460	1160-1560	1280-1880			
Oscillating tandem axle	12	225/55-R12C	5/67/112	225/540		1350-1950	1350-1950		
Oscillating tandem axle	12	23/10.50-12 8PR	5/67/112	250/580			1480-2080	1560-2160	
Oscillating tandem axle	15	24/12.00-12 8PR	6/161/205	320/580			1580-2180**	1760-2360**	2030-2630**
Wide tires	15	26/12.00-12 8PR	6/161/205	320/670	1260-1660	1350-1950	1550-2150		
Radial tires	4	195 R14C 8PR	5/67/112	195/664	1030-1430*				
Flotation tires	14.5	300/55-14.5	6/161/205	300		1260-1860	1340-1940		
Terra tires	15	31/15.5-15 8PR	6/161/205	425/795		1500-2100	1580-2180	1650-2250	1920-2520
Implement tires	15.3	10.0/75-15.3 8PR	6/161/205	270/740	1170-1570	1240-1840*			
Implement tires	15.3	11.5/80-15.3 10PR	6/161/205	300/830		1270-1870	1350-1950*	1550-2150	1820-2420
Implement wide tires	17	380/55-17 10PR	6/161/205	380/840		1450-2050	1550-2150	1650-2250*	1920-2520*
Implement wide tires	17	480/45-17 10PR	6/161/205	480/840			1660-2260	1850-2450	2120-2720

Special tires

*Standard tires

additional track offset of 6/12 cm (2.4-4.7 in.) per side possible (add desired track offset to dimension) for axles with brakesystem: + 6 cm (2.4 in.)



2-agent sprayer BS2

(one row) · without recycling · for lower link attachment to tractor

Attachment between tractor and sprayer (GSG-NV-VM2)



- · 300 I PE tank with attachment frame
- 3-point mounting between tractor and sprayer kat. I and lower link attachment for LIPCO pivoting drawbar (for GSG-NV-VM sprayer, attachment extension of 27 cm (11 in.) on sprayer side)
- pump 40 l, 40 bar with hydraulic drive, armature
- suction filter 50 mesh
- switch on/off via motor-driven valve
- control box included

Front attachment (mounting plate or three-point attachment)



- fiberglass-tank 250 I, front side roundfilling, injector agitator and filling mixer integrated in filling screen
- 40 I pump, 40 bar with hydraulic drive, armature
- suction filter 50 mesh
- to switch on/off via motor-driven valve
- including control box

Attachment to GSG-saddle-mount fan unit, with additional pump



- 200 I PE tank, with attachment frame, injector agitator
- 40 I pump, 40 bar with hydraulic drive, armature
- · suction filter 50 mesh
- to switch on/off via motordriven valve
- including control box



Saddle-mount unit GSG-S-VM1/2/3

(one/two/three rows) · for selfdriving harvester



Saddle-mount unit with one- to three-sided crossflow fan equipment, WITH recycling



Technical data:

Max. row height	2.20 m (87 in.)
Width adjustment	up to 1.10 m (43 in.)
Row width	1.80-2.50/3.20 m (71-98/126 in.)
Road use	3.00 m (118 in.)
Weight	approx. 2,300 kg (5,070 lbs.)







Saddle-mount unit GSG-S-VM multi-row

for high clearance tractor



Saddle-mount unit with multi-rowed crossflow fan equipment, WITH recycling

Technical data:

Max. row height	1.50 m (59 in.)
Width adjustment	up to 1.10 m (43 in.)
Row width	0.90-1.20 m (35-47 in.)
Weight	approx. 1,500 kg (3,300 lbs.)













Plot sprayer

For manufacturers of pesticides, institutes, testing operators,

testing providers



Can be used in fruit growing AND viniculture!





(user protection: driver's cab with protection category 4)

LIPCO application unit, construction and design are made on customer request

Pressure vessel made of VA	modular system
Nozzles	arrangement upon request
Compressor	compressed air generation for pressure vessels made of VA
Control/armature/handling	manual or fully-electric programmable control
Pressure vessels of fill unit	electric
Recycling non-deposited spray liquid	in PE tanks
Fresh water recycling tank	hand wash tank made of PE







LIPCO



















Trailer-mount unit OSG-NVM

(one row) · with recycling · for lower link attachment to tractor



Trailer-mount unit with one-sided crossflow fan equipment, **WITH** recycling for a one row treatment in fruit growing



Photo: **OSG-NVM** / 1,000 I tank with oscillating tandem axle and tires 300/55-14,5 (flotation)

Technical data:

	1,000 l tank
Max. row height	3.10/3.50 m (122/138 in.)
Width adjustment	1.20-2.40 m (47-94 in.)
Standard tires	master wheel tank 480/45-17 10PR 1W,
Standard tires	outer wheel 10/75-15.3 AS 10PR
Weight	approx. 1,410/1,500 kg (approx. 3,108 lbs./3,307 lbs.)



Trailer-mount unit OSG-NVM

(two rows) · with recycling · for lower link attachment to tractor



Trailer-mount unit with two-sided crossflow fan equipment, **WITH** recycling for a two-row treatment in fruit growing





(hydraulic drive, 50-60 l/min oil quantity from tractor required)

Technical data:

	1,500 l tank	
Max row height	3.10 / 3.50 m (122/138 in.)	
Width adjustment	0.60-2.40 m (24-94 in.)	
Row width	2.20-3.50 m (87-138 in.)	
Road use	2.60 m (102 in.)	
Standard tires	tandem oscillating axle (without track displacement)	
Standard tires	with tires 24/12.00-12 8PR (lawn profile)	
Weight	approx. 2,380 kg / 2,490 kg (approx. 5,250 lbs. / 5,490 lbs.)	

Tractor requires 1x double-acting operating valve or 1x pressure and 1x free return flow, minimum oil volume of 40 l/min required (without own hydraulic).



Tires for all OSG-NVM (one row or two rows)

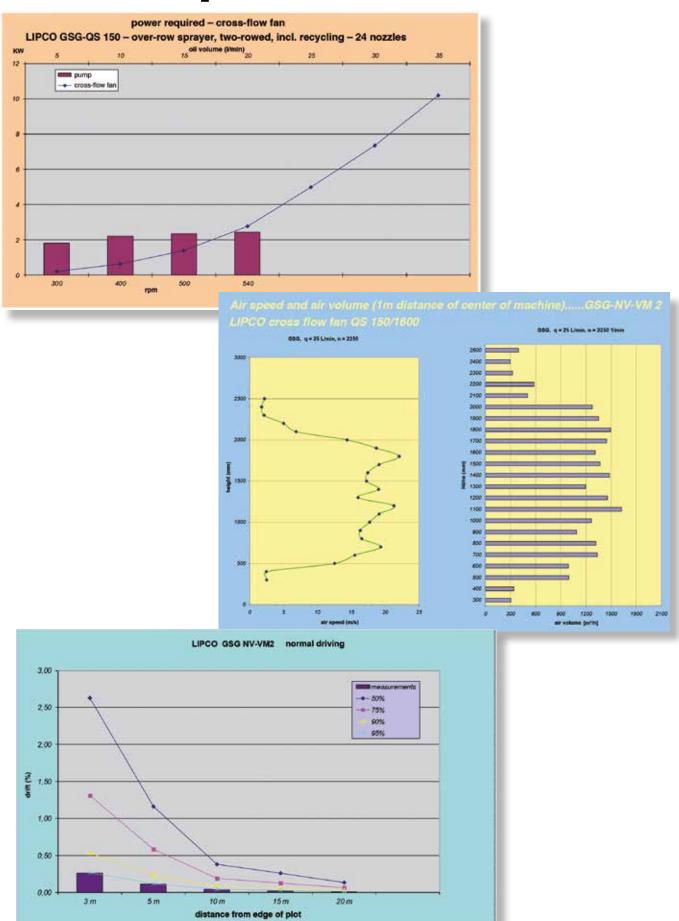
Implement tires 15,3 10,0/75-15,3AS 8PR 6/161/205 270/740	Tires for OSG-NVM	Size inch	Tire denomination	Rimsize	Tire width Ø	Tracking width (mm) OSG-NVM2 1,500 I	Tracking width (mm) OSG-NVM2 2,000 I	
15,3 10.0/75-15.3 AS 8PR 6/161/205 270/740 17 480/45-17 AW 10PR 6/161/205 480/840 12 23/10.50-12 5/67/112 250/580 1440-2040 12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	OSG-NVM one row							
17 480/45-17 AW 10PR 6/161/205 480/840 14.5 300/55-14.5 (Flotation) 6/161/205 300/680 1440-2040 12 23/10.50-12 5/67/112 250/580 1440-2040 12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Implement tires	15,3	10.0/75-15.3 AS 8PR	6/161/205	270/740			*
14.5 300/55-14.5 (Flotation) 6/161/205 300/690 1440-2040 12 23/10.50-12 5/67/112 250/580 1440-2040 12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 14.5 300/55-14.5 (Flotation) 6/161/205 300/690 1520-2120 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Implement wide tires	17	480/45-17 AW 10PR	6/161/205	480/840			*
12 23/10.50-12 5/67/112 250/580 1440-2040 12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 14.5 300/55-14.5 (Flotation) 6/161/205 300/690 1520-2120 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Fixed tandem axle	14.5	300/55-14.5 (Flotation)	6/161/205	300/690			*
12 23/10.50-12 5/67/112 250/580 1440-2040 12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 14.5 300/55-14.5 (Flotation) 6/161/205 300/690 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	OSG-NVM two rows							
12 24/12.00-12 8PR 6/161/205 320/580 1620-2220 15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 14.5 300/55-14.5 (Flotation) 6/161/205 300/690 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Oscillating tandem axle	12	23/10.50-12	5/67/112	250/580	1440-2040	1550-2150	
15 31/15.5-15 8PR 6/161/205 380/720 1550-1950 14.5 300/55-14.5 (Flotation) 6/161/205 300/690 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Oscillating tandem axle	12	24/12.00-12 8PR	6/161/205	320/580	1620-2220	1780-2380	**/*
14.5 300/55-14.5 (Flotation) 6/161/205 300/690 15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Fixed tandem axle	15	31/15.5-15 8PR	6/161/205	380/720	1550-1950	1750-2350	only for OSG-NVM with 2,000 I tank
15 29/14.00-15 TL 12PR 6/161/205 356/737 1520-2120	Fixed tandem axle	14.5	300/55-14.5 (Flotation)	6/161/205	300/690		1440-2040	
	Fixed tandem axle	15	29/14.00-15 TL 12PR	6/161/205	356/737	1520-2120	1580-2180	

special tires

*standard tires **additional track offset of 6/12 cm per side possible - add desired track offset to dimension*/**



Let's compare





Underplant cultivator BP2/4

for three-point attachment to tractor (rear attachment)



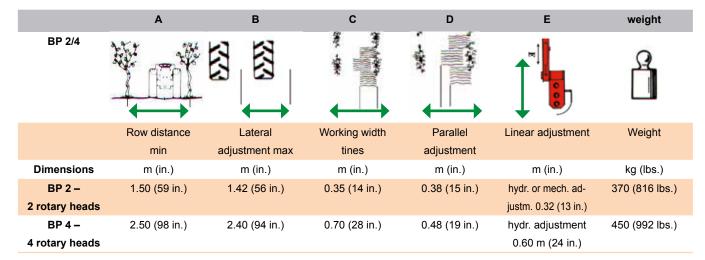


The advantages:

- own hydraulic
- drive via PTO shaft 540 rpm
- hydraulic parallel displacement via push-button
- adjustment of the working depth of the tines via supporting wheels
- adjustable inclination of tines
- additional manual activation of the sensor via electric push button (driver operated)
- counter-rotating rotary heads with 2 tines each (no soil displacement, therefore flat surfaces)



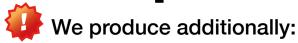








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