

ENGINEERING  
YOUR SPRAY SOLUTION



# IDKS BANDING

## JKI APPROVALS



# IDKS 80 - JKI APPROVALS

G-Numbers

**JKI approval for two sided banding (herbicide application) in orchards, vineyards and speciality crops**

- IDKS 80-025 – G2142
- IDKS 80-03 – G2140
- IDKS 80-04 – G2141
- IDKS 80-05 – G2139
- IDKS 80-06 – G2143



# IDKS 80 - JKI APPROVALS

G-Numbers

JKI approval for two sided banding (herbicide application) in orchards, vineyards and speciality crops

**90% drift reduction**

	Determination of use
IDKS 80-025	1 – 3 bar
IDKS 80-03	1 – 3 bar
IDKS 80-04	1 – 3 bar
IDKS 80-05	1 – 3 bar
IDKS 80-06	1 – 6 bar

# IDKS 80 - TECHNICAL FEATURES

ENGINEERING  
YOUR SPRAY SOLUTION



Very low-drift, compact air injector off center nozzle for banding.

- Asymmetrical spray pattern (20°/60° to axis)
- Precise edge application along boundaries
- Optimum protection of fruit crop during herbicide application avoiding spray drift
- Suitable for use with 12 V electro pumps



**Nozzle size**  
015 – 06



**Spray angle**  
80°



**Material**  
POM



**Pressure range**  
– Sprayer /  
broadcast spraying:  
1 – 1.5 – 3 – 6 bar  
– Vertical sprayer  
boom:  
1 – 8 – 15 bar



**Recommended  
filters**  
60 M 015 – 04  
25 M 05 – 06



**Droplet size**  
Ultra coarse –  
medium



**Width across flats**  
8 mm

## Application areas



Border nozzle



Band spraying  
in orchards  
and vineyards



Vertical boom



Spray frame



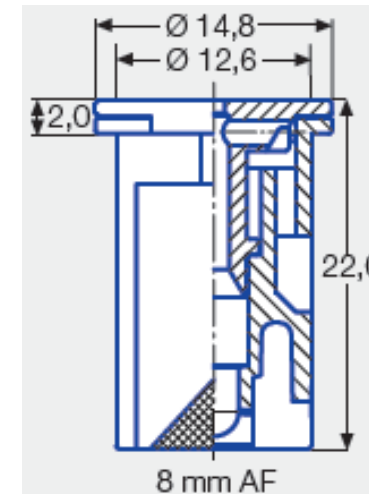
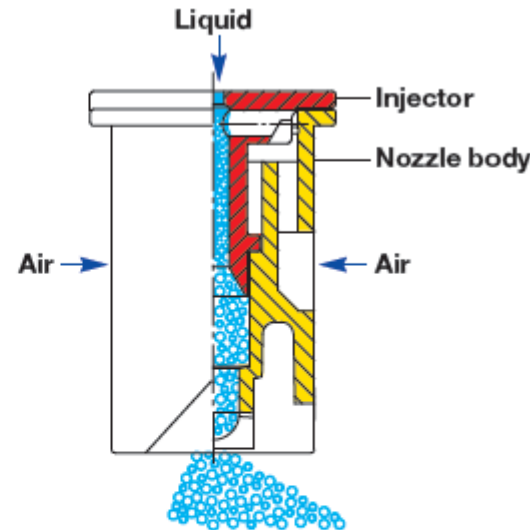
Knapsack sprayer



Greenhouse



Toolless removable  
injector






# IDKS 80 - JKI APPROVALS

Technical requirements

ENGINEERING  
YOUR SPRAY SOLUTION



## Spray pressure, flow rates and recommendation of filters

		l/min						
								
		1.0	1.5	2.0	3.0	4.0	5.0	6.0
<b>IDKS 80-015</b>	60 M	-	0.28	0.32	0.39	0.45	0.51	0.55
<b>IDKS 80-02</b>	60 M	-	0.42	0.48	0.59	0.68	0.76	0.83
<b>IDKS 80-025</b>	60 M	-	0.56	0.65	0.80	0.92	1.03	1.13
<b>IDKS 80-03</b>	60 M	0.57	0.70	0.81	0.99	1.15	1.28	1.40
<b>IDKS 80-04</b>	60 M	0.69	0.84	0.97	1.19	1.37	1.53	1.68
<b>IDKS 80-05</b>	25 M	0.91	1.12	1.29	1.58	1.82	2.04	2.23
<b>IDKS 80-06</b>	25 M	1.14	1.39	1.61	1.97	2.28	2.55	2.79

Nozzle strainer



Ball check valves

Cup strainer



Mesh size	Ordering no.
25 M  red	065.256.56.00
60 M  blue	065.257.56.00
80 M  yellow	A.424.310.5
25 M  red	065.266.56.00
60 M  blue	065.265.56.00
25 M	065.252.26.00
25 M  red	200.029.26.00.03
60 M  blue	200.029.1C.01.03

# IDKS 80 - JKI APPROVALS

Technical requirements

The nozzles are suitable for banding fulfilling the following technical requirements

Spray height (cm)	Vertical 0°	Vertical 20°
	Spray band width (cm)	Spray band width (cm)
20	30	30 - 50
30	40	60 - 80
40	50 - 60	70 - 100
50	60 - 70	90 - 130

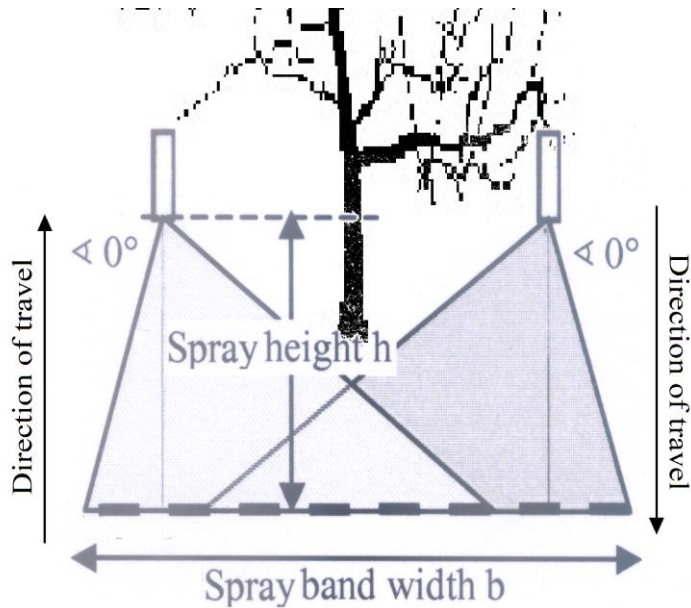
# IDKS 80 - JKI APPROVALS

## Technical requirements

### Nozzle setting for two sided band application

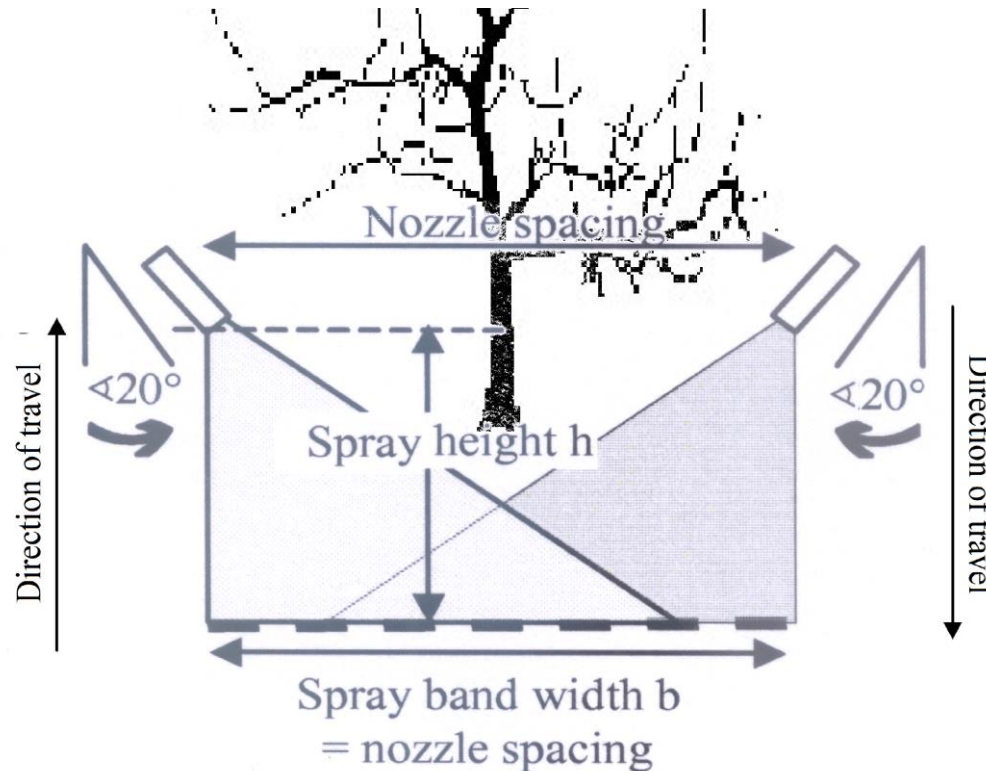
#### Horizontal 0°

*Nozzle orientation vertically downwards*



#### Vertical 20°

*Short leg of the flat jet vertically downwards oriented*

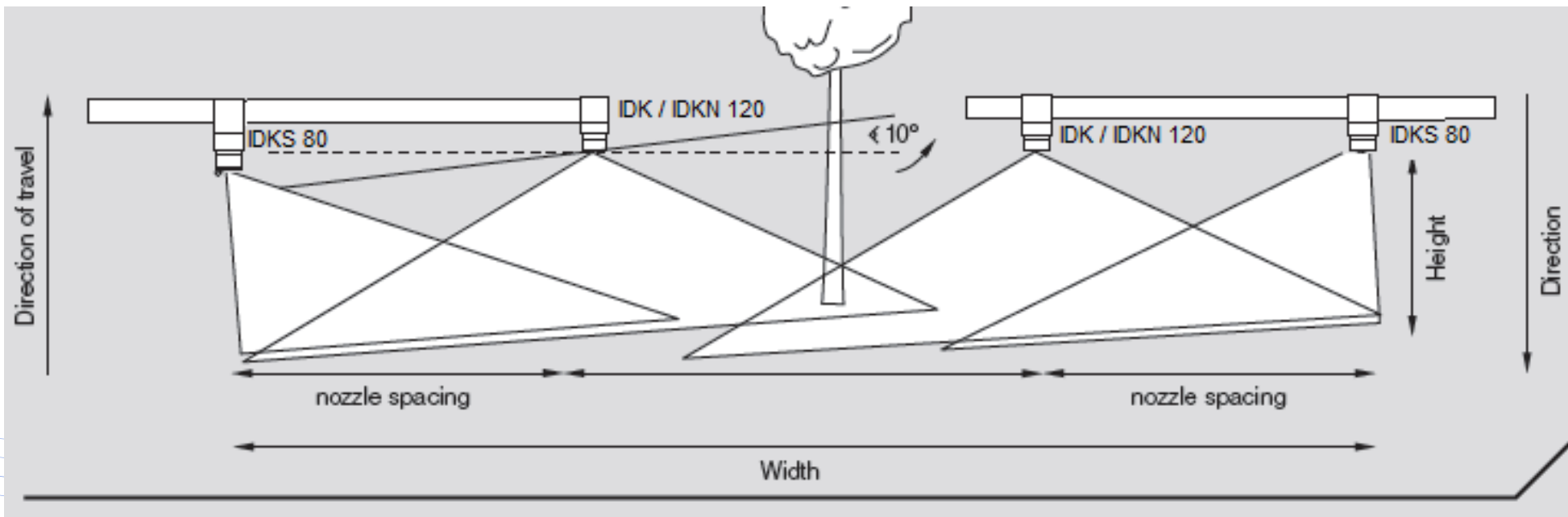




# RECOMMENDATION FOR EXTENDED BANDS

## Nozzle setting for extended spray booms (not JKI approved)

- Additional IDK / IDKN 120 of same nozzle size as IDKS 80
- For good overlap spray height + 10 cm = nozzle spacing inbetween IDKS and IDK / IDKN
- Offset of  $10^\circ$  in order to avoid spray jet interference





# LECHLER NOZZLE CALCULATOR

Banding in orchards, vineyards and speciality crops

## Use Lechler app as a helpful tool

- Banding with single nozzle one and two sided
- Calculation of
  - nozzle size
  - Pressure
  - Sprayed liquid / ha

## Free download

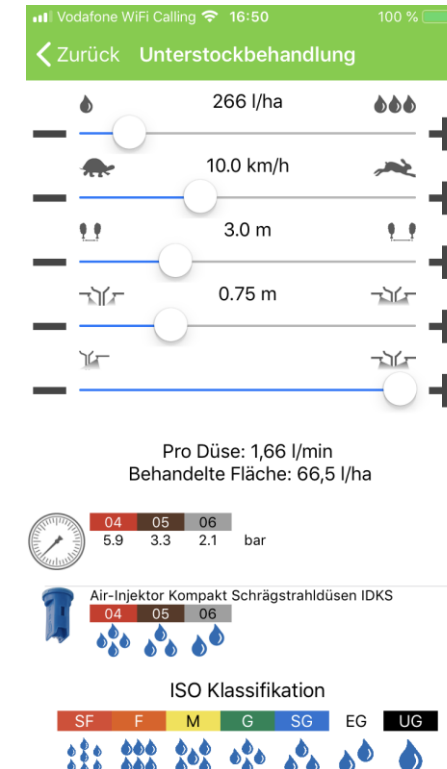
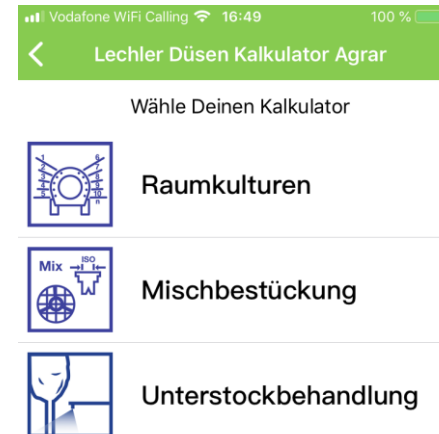


Apple



Android

Online nozzle calculator



ENGINEERING  
YOUR SPRAY SOLUTION





