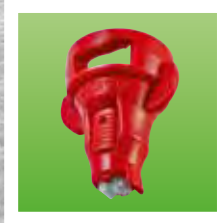
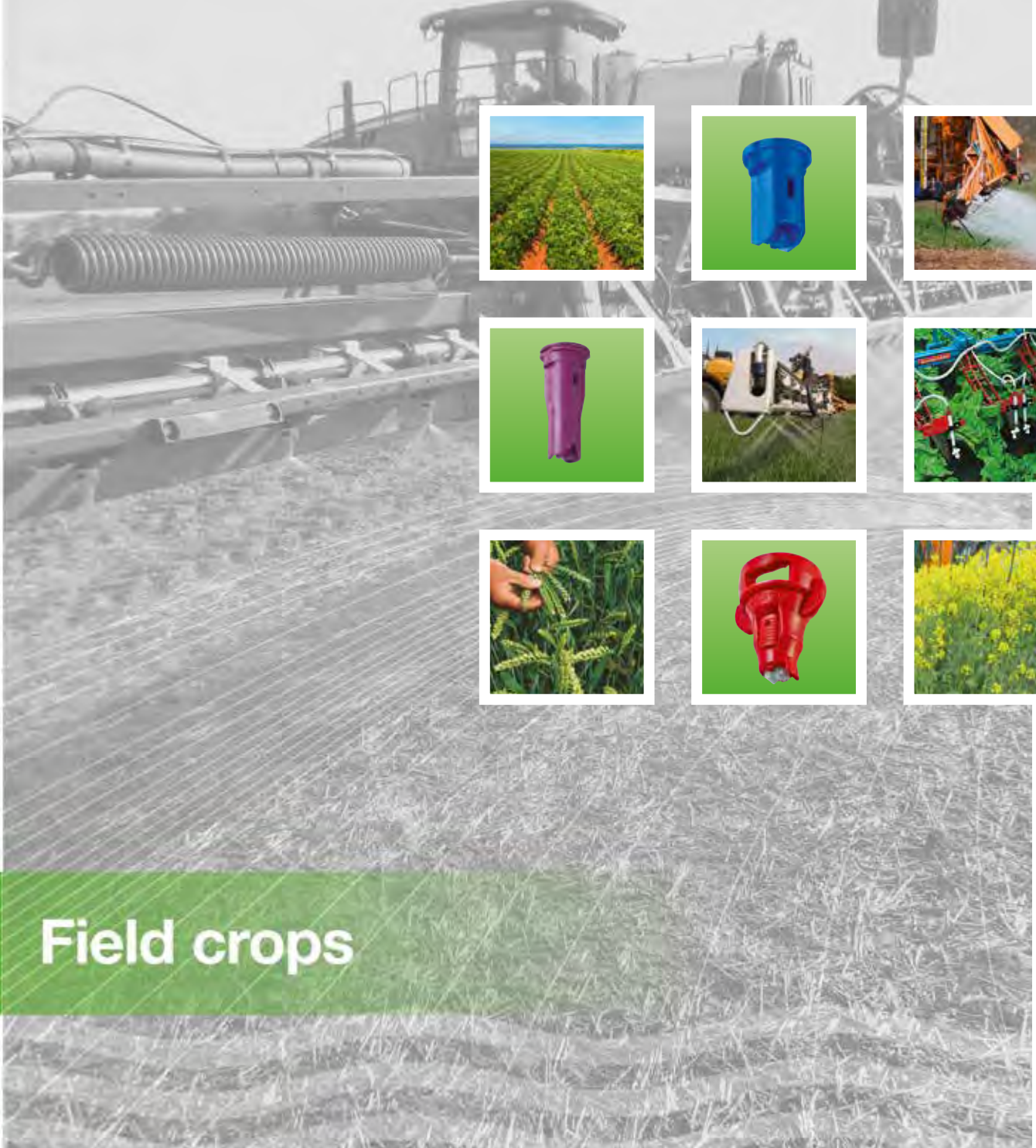


**ENGINEERING
YOUR SPRAY SOLUTION**



Agricultural Spray Nozzles 2018 US Catalog



Field crops

LECHLER AGRICULTURAL SPRAY NOZZLES – GOOD FOR YOUR CROP, GOOD FOR THE ENVIRONMENT

Lechler is a world leader in nozzle technology. For over 135 years, we have pioneered numerous groundbreaking developments in the field of nozzle technology. Comprehensive nozzle engineering know-how is combined with a deep understanding of application-specific requirements to create products that offer outstanding precision, reliability and durability.

Modern plant protection involves more than just the use of environmentally friendly chemicals. It is above all a question of precision. In order to achieve uniform coverage, the droplets must reach the target as exactly as possible. Losses due to drift, run-off or evaporation should be avoided – in favor of the environmental protection.

The application technology and here particularly the plant protection nozzles must therefore meet very high requirements. Today, nozzles must offer a degree of precision that would have been considered impossible just a few years ago.

As a globally leading manufacturer of precision nozzles, Lechler is ideally prepared to meet this challenge. For decades now, our products have set the technological

standards in the fields of crop protection and liquid fertilizer application. Through regular and extensive investment in research and development, we ensure that this will also remain the case in the future. The functions and characteristics of our precision nozzles are defined exactly and objectively right from the start. This process is based on sophisticated measuring techniques and our proven documentation system.

State-of-the-art design and simulation techniques guarantee practically-oriented products with a high practical value.

With Lechler nozzles, one spray jet is the same as the next. This demands a high level of precision and care in production. Our processes are therefore subject to



permanent quality control measures, from the incoming goods department, through development and production right up to dispatch. Our quality management system is based primarily on the requirements of our customers and is certified in accordance with ISO 9001:2008. Lechler nozzles comply with the requirements of the Julius Kühn Institute, the German Plant Protection Act as well as European EN and international ISO standards.

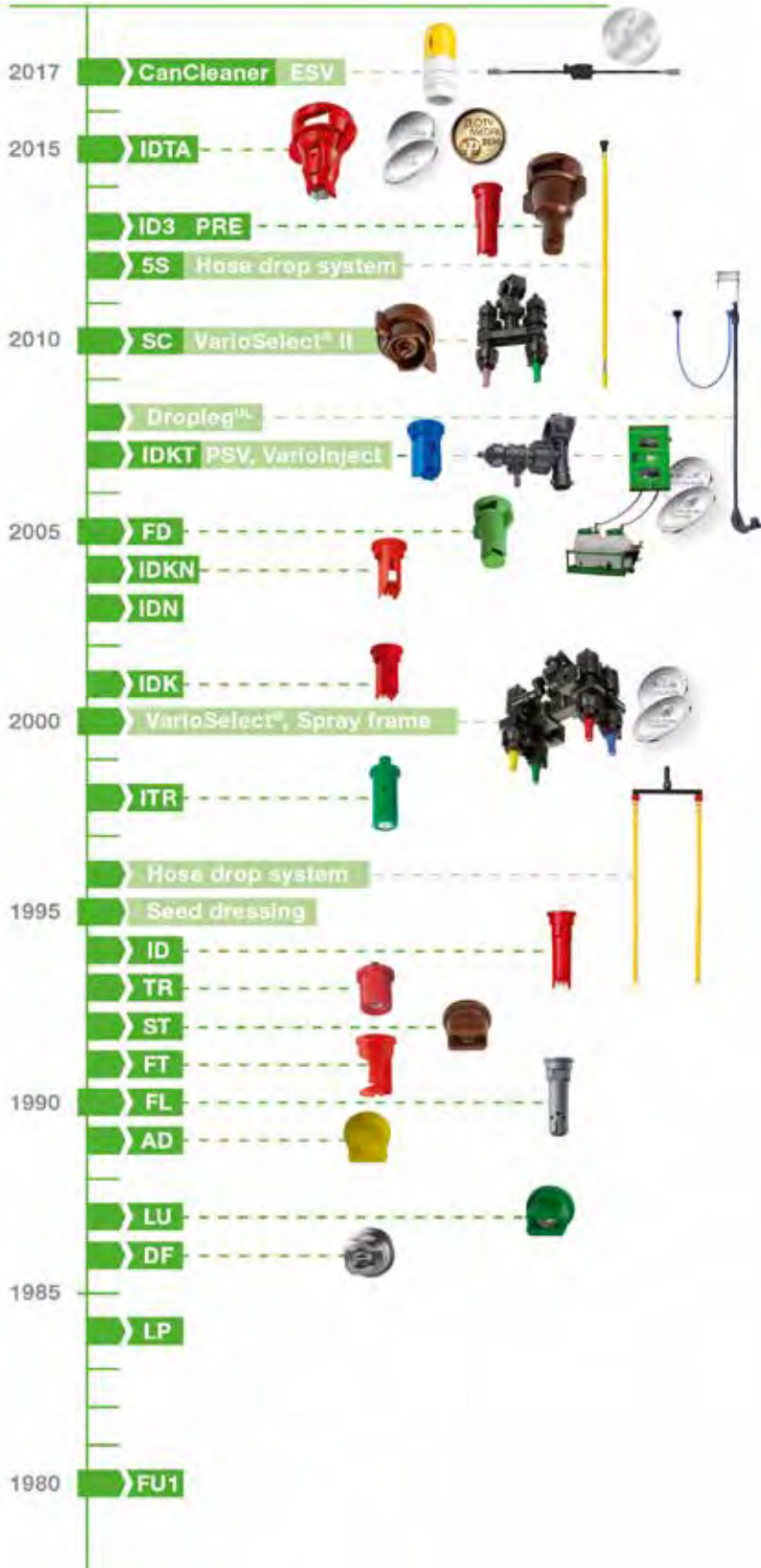
Thanks to close cooperation and active exchange of information with official test institutes, the chemicals and

liquid fertilizer industry, the equipment manufacturers and last but not least agricultural consultants, we also ensure that we are fully up-to-date on current practical requirements. After all, one thing is certain: solutions for practical applications can only be developed from practical knowledge.

This catalog contains our comprehensive Lechler agricultural spray nozzle product information.

PROGRESS MEANS FURTHER DEVELOPMENT

Therefore, success is not a final state for us, but simply a further step on the way to even greater perfection.



CONTENT	Page
Factors for selecting the right nozzles	4
Innovative nozzle design – the Lechler IDTA	5
Nozzle recommendations by crop growth stages	6-7
The Lechler nozzle line up	8-9
Products	
ID/ID3 Air Induction flat spray nozzles	10
IDK Compact Air Induction flat spray nozzles	11
IDTA Asymmetrical Twin Air Induction flat spray nozzles	12
IDKT Symmetrical Twin Air-Induction flat spray nozzles	13
PRE Emergence flat spray nozzles	14
AD Anti-drift flat spray nozzles	15
LU Multi Range flat spray nozzles	16
ST/SC Standard flat spray nozzles	17
DF Twin flat spray nozzles	18
FT Flood nozzles	19
TR Hollow Cone nozzles	20
ITR Air Induction Hollow Cone nozzles	21
FD Liquid Fertilizer nozzles	22
FL 5 Orifice Fertilizer nozzles	23
IS Off Center Air Induction flat spray nozzles	24
BN Off Center flat spray nozzles	25
OC Off Center flat spray nozzles	26
ES Even flat spray nozzles	27
Twin Spray Caps	28
Select Lechler Nozzles Droplet Size Tables	29
Lechler Nozzles Spray Tables	30

SELECTING THE RIGHT NOZZLES FOR YOUR OPERATION

Coverage, drift, biological and ecological efficacy have to be in a good balance to make your spraying a success. Lechler spray tips ensure you for all kind of application. Every time.

Have confidence when choosing Lechler.

Technical requirements

Lechler meets requirements of JKI, ENTAM as well as the international EN/ISO standards.

This ensures an optimum use of your plant protection program flow rates and spray pattern coverage uniformity.



Biological requirements

In order to achieve the optimum effect, application of plant protection products must be as precise as possible. Lechler precision nozzles achieve exact dosage and uniform distribution. Flat spray nozzles generally achieve good crop penetration (e.g. mildew control in cereal crops).

Double flat spray nozzles cover vertical targets well, covering tall grasses and cereal grains. In no till or cloddy soil conditions, they help eliminate spray shadow gaps.

Environmentally-relevant requirements

As much as necessary, as little as possible. For effective plant protection, the sprayed products must reach their targets. It is essential to reduce drift and post application

movement by respecting weather conditions in your treatment time window.

Drift-reducing technology

Application guidelines for plant protection products - buffer zones, field boundaries, etc. - are defined to protect sensitive non target areas. The setback distances from open water and field boundaries can

be reduced with the use of air induction and off center nozzles. The result: improved yields and respect for your neighbors.



INNOVATIVE NOZZLE DESIGN – THE LECHLER IDTA

It is one thing to be aware of the requirements to achieve good crop production. It is another to create a product that will fulfill these. A good example is

the new IDTA with its operator friendly design. The IDTA is a high drift reducing asymmetrical twin flat spray air – induction nozzle for optimal coverage at

higher driving speeds. The innovative development in the wide range of agricultural spray nozzles is suitable for a wide range of applications.

Optimized twin flat spray concept

For best deposition on vertical targets the IDTA has asymmetric spray angles of 120° to the front and 90° to the back. With the angling of 30° to the front and 50° to the back the actual spray width at the target is the same. Also the spray volume is divided 60 % to the front and 40 % to the back to get best results at higher driving speeds.

Facts

To prove the high efficiency of the IDTA, field tests have been conducted. Deposition on vertical targets was checked with water sensitive paper. The testing was done with an Amazone UF 1201 sprayer with a 50 foot boom. Results show significant differences on the front and back sides of the targeted areas among the nozzle styles.

More applications

As a result of the different spray angles and volume rates, the droplet spectrum is changed. Finer spray to the front is for excellent coverage and coarser to the back is for better drift stability. This enables the IDTA nozzle to spray under conditions when other nozzles have to stop.



Type	Lechler ID 120-03 (ID3)	Lechler IDTA 120-03	Competitor Asym. DF 110-03
Pressure	12kmh/7.5mph	12kmh/7.5mph	12kmh/7.5mph
Speed	12 kmh/7.5mph	12 kmh/7.5mph	12 kmh/7.5mph
Deposit towards front Coverage in % + Droplet number/ cm ²	 5.4 % + 5 d/cm ²	 15.5 % + 10 d/cm ²	 5.9 % + 5.6 d/cm ²
Deposit towards back Coverage in % + Droplet number/ cm ²	 9.5 % + 24.9 d/cm ²	 30.2 % + 60.7 d/cm ²	 27.2 % + 63.5 d/cm ²

The Bottom Line

Compared to standard air-injector nozzles, our ID-120-03, the IDTA results in clear advantages in the field:

- Double overall coverage
- Significant higher total deposit on the front and back of vertical targets
- More uniform coverage on front and back

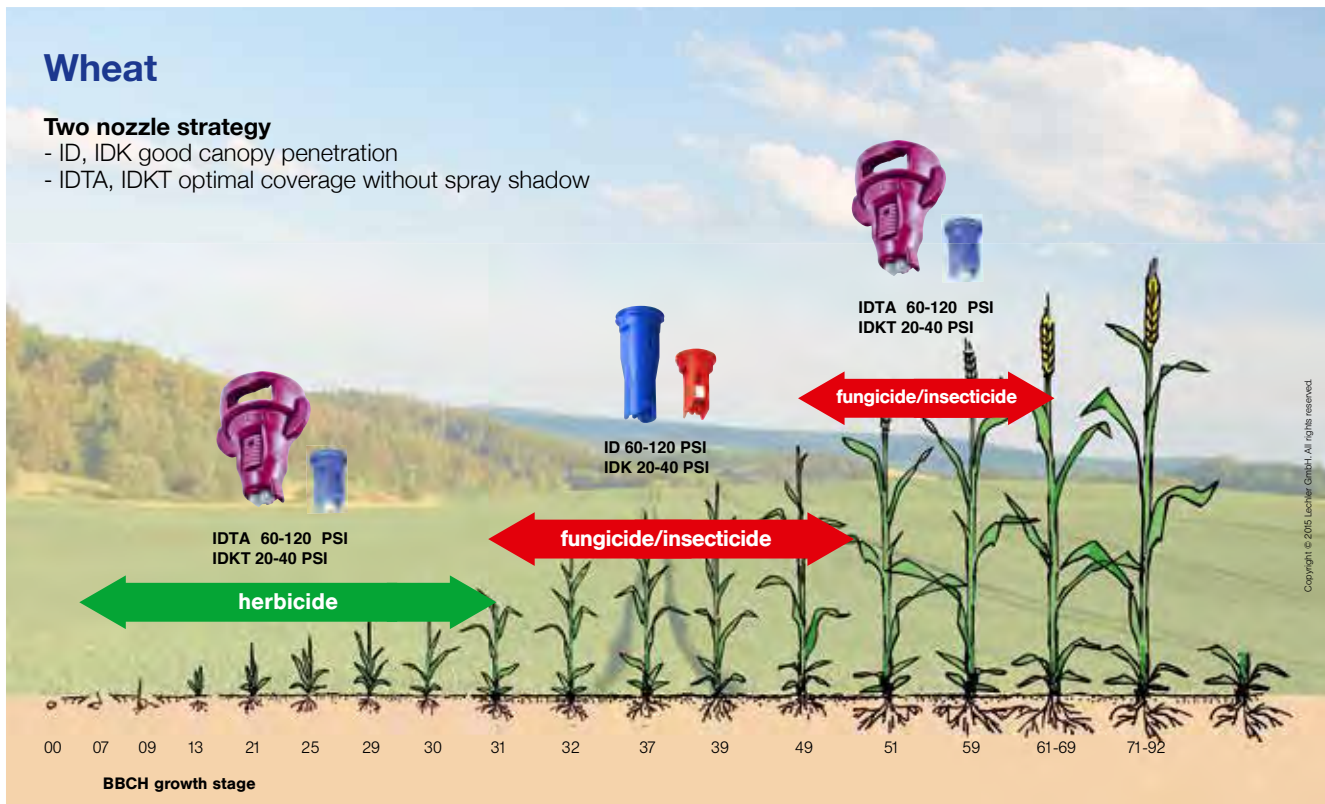


NOZZLE RECOMMENDATIONS FOR PESTICIDE APPLICATION BY CROP GROWTH STAGES

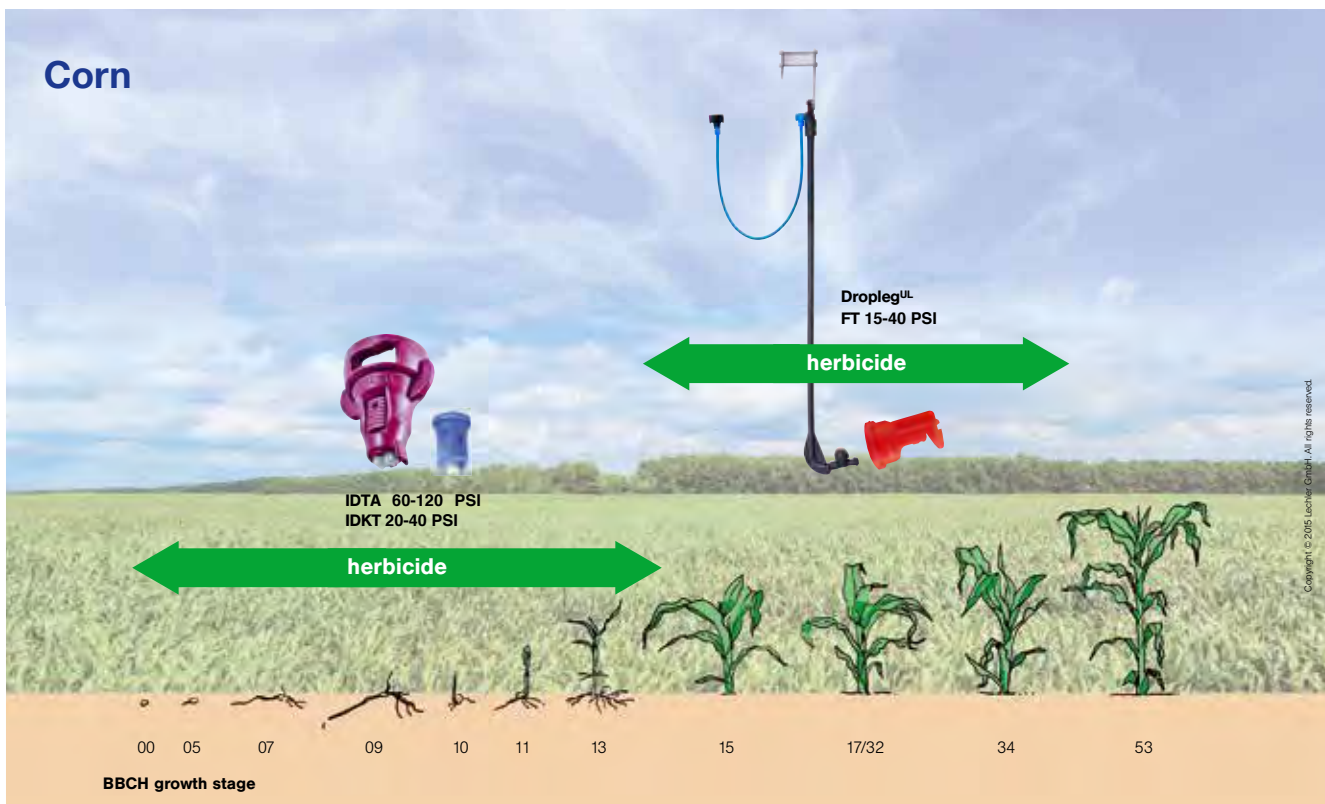
Wheat

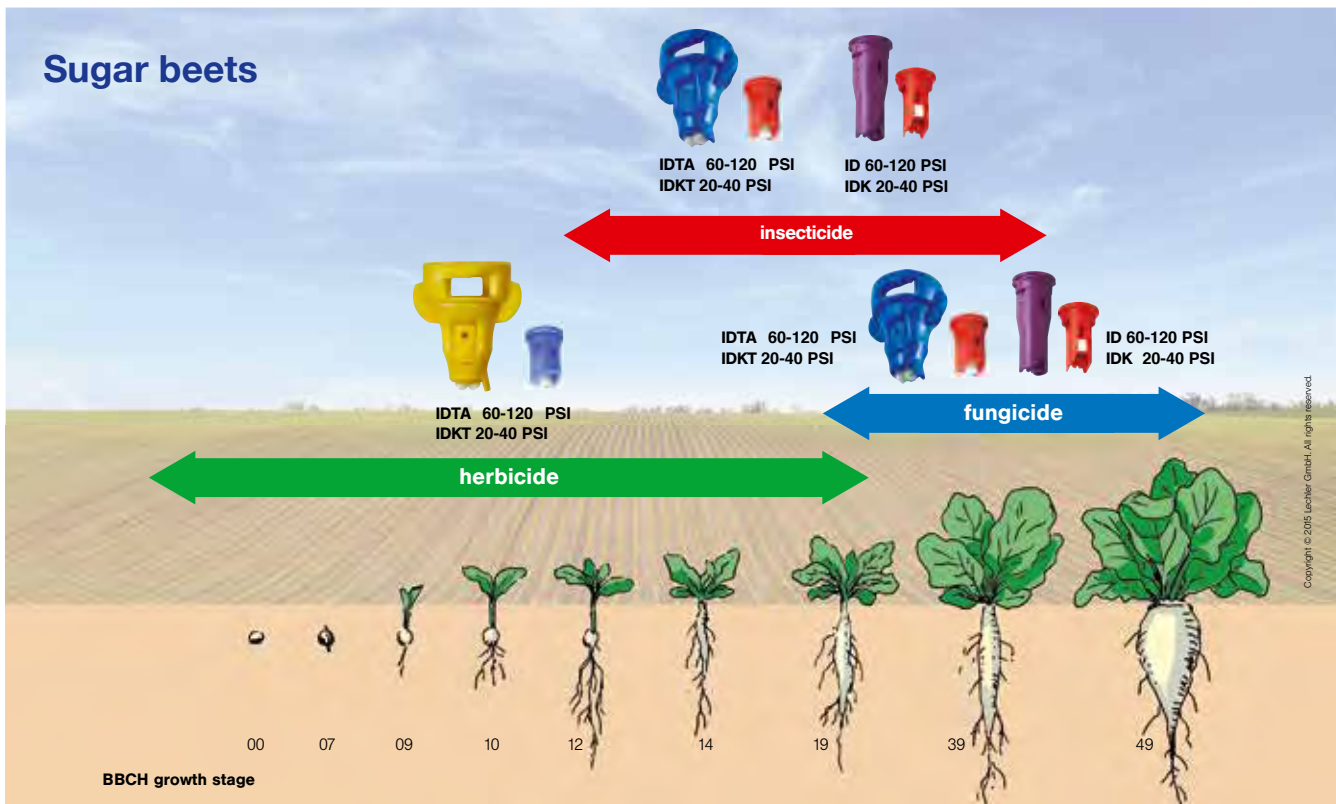
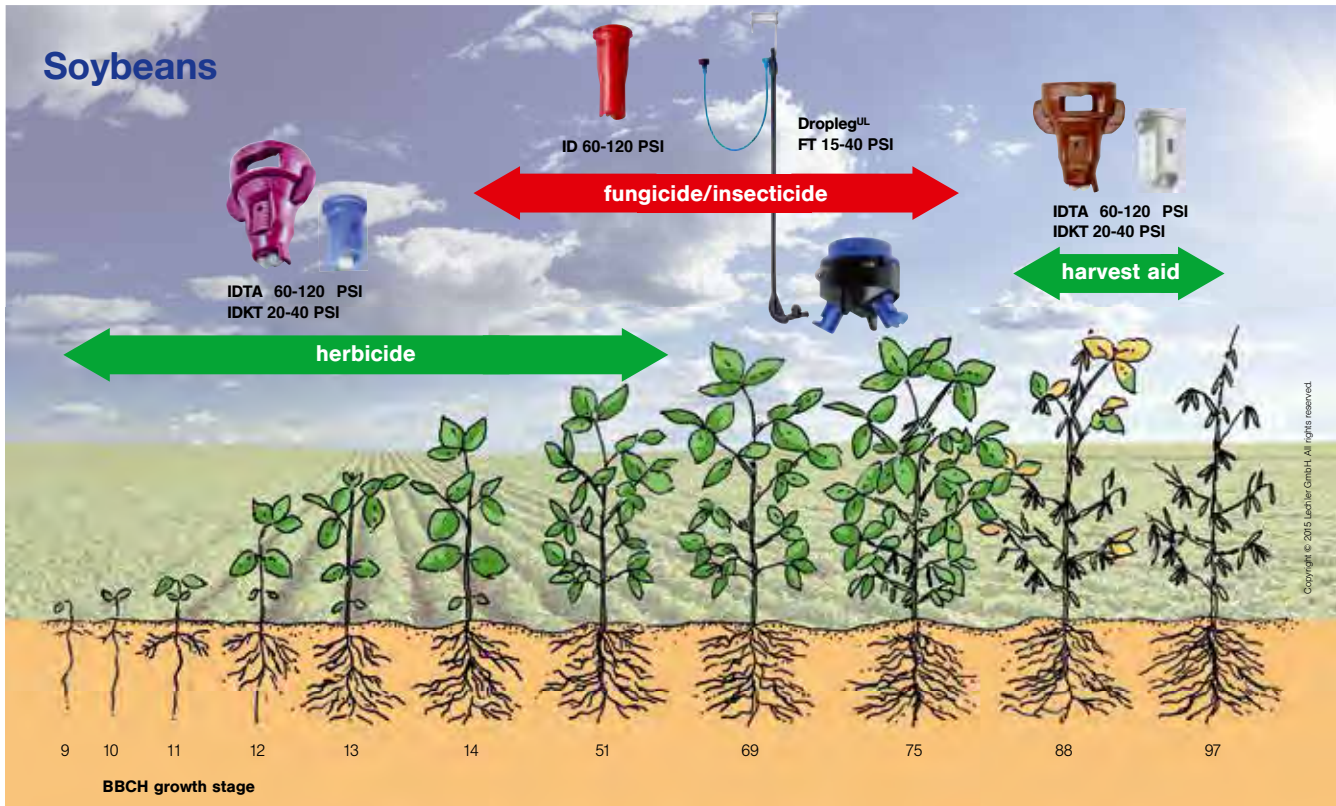
Two nozzle strategy

- ID, IDK good canopy penetration
- IDTA, IDKT optimal coverage without spray shadow



Corn





THE LECHLER NOZZLE LINE UP

	ID/ID3	IDK	IDTA	IDKT	PRE	AD	QS 80	LU	ST/SC	DF
										
Spray pattern geometry										
Drift potential	extremely low	very low	extremely low	very low	extremely low	low	low/medium	low/medium	medium	medium

Broadcast spraying

Recommended pressure range (PSI)		30-115	15-90	15-120	15-90	20-120	20-90	20-75	20-75	30-75	30-75
Herbicides	soil incorporated	●●	●●	●●	●●	●●	●●	●●	●●	●	-
	pre-emerge	●●	●●	●●	●●	●●	●●	●●	●●	●	-
	post-emerge (systemic)	●●	●●	●●	●●	-	●●	●●	●●	●	○
	post-emerge (contact)	●	●	●●	●●	-	●	●●	●●	●	●●
Fungicides	Contact	●	●	●●	●●	-	●	●●	●●	●	●●
	Systemic	●●	●●	●●	●●	-	●●	●●	●●	●	●
Insecticides	Contact	●	●	●●	●●	-	●	●●	●●	●	●●
	Systemic	●●	●●	●●	●●	-	●●	●●	●●	●	●
Liquid fertilizer		●●	●●	○	○	●●	●	○	○	○	-
Growth regulators		●●	●●	●	●	-	●●	●●	●●	●	○
Irrigation (via boom)		●●	●●	●●	●●	●●	●●	●	●	●	-

Banding/row spraying – speciality crops

Recommended pressure range (PSI)		-	-	-	-	-	-	-	-	-	-
Herbicides	soil incorporated	-	-	-	-	-	-	-	-	-	-
	pre-emerge	-	-	-	-	-	-	-	-	-	-
	post-emerge (systemic)	-	-	-	-	-	-	-	-	-	-
	post-emerge (contact)	-	-	-	-	-	-	-	-	-	-
Fungicides	Contact	-	-	-	-	-	-	-	-	-	-
	Systemic	-	-	-	-	-	-	-	-	-	-
Insecticides	Contact	-	-	-	-	-	-	-	-	-	-
	Systemic	-	-	-	-	-	-	-	-	-	-
Liquid fertilizer		-	-	-	-	-	-	-	-	-	-
Growth regulators		-	-	-	-	-	-	-	-	-	-
Irrigation (via boom)		-	-	-	-	-	-	-	-	-	-



FT	TR	ITR	FD	FL	IS	IDKS	BN	OC	ES	ID 90	IDK 90	AD 90
low/ medium	medium	extremely low	extremely low	extremely low	extremely low	very low	low/ medium	medium	medium	extremely low	very low	low

10-40	40-290	40-435	20-60	15-75	30-115	15-90	10-40	20-75	15-60	30-115	20-90	20-90
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-	40-115	-	-	-	30-115	15-90	10-40	20-75	15-60	-	-	-
-	○	-	-	-	●●	●●	●●	●●	●●	-	-	-
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-	-	-	-	-	●●	●●	●●	●	●	-	-	-

Always follow product label instructions

●● = very well-suited ● = well-suited ○ = less well-suited - unsuitable



ID/ID3 Air Induction flat spray nozzles

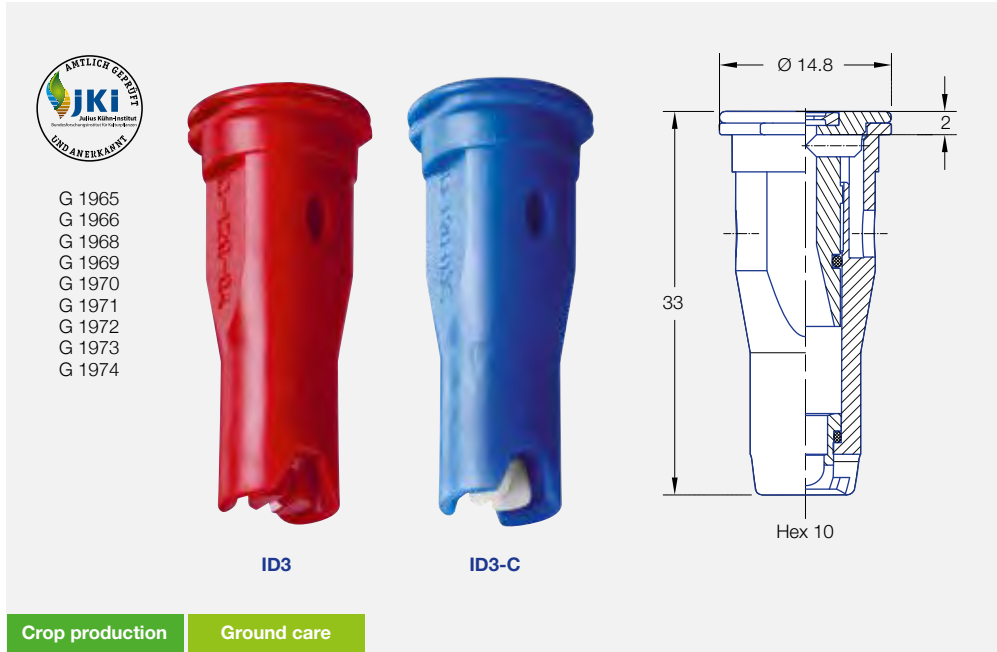


Main Benefits

- Extremely low drift potential
- Sturdy Design
- Easily removable injector for cleaning
- Hard wearing—non-clogging
- Very good deposition structure and crop canopy penetration

Advantages

- Extremely coarse to coarse droplets
- 90 % drift reduction
 - ID-120-025 to 05
- Long injector design insures uniform spray and droplet pattern up to 115 PSI
- Timely application even under adverse weather conditions
- Increased workrate due to flexible use over a wide pressure range
 - Adaptation by changing the driving speed and GPA rate without nozzle changes
- Very good deposition structure and crop penetration



ISO nozzle size
01 – 08



Spray angle
80°, 90°, 110°, 120°



Material
POM, ceramic



Pressure range
30-115 PSI



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Extremely coarse – coarse



Near width across flats
Fits 10 mm bayonet caps Y8253049 or Universal Y8253080

Application areas



Plant protection products and growth regulators



Liquid fertilizer



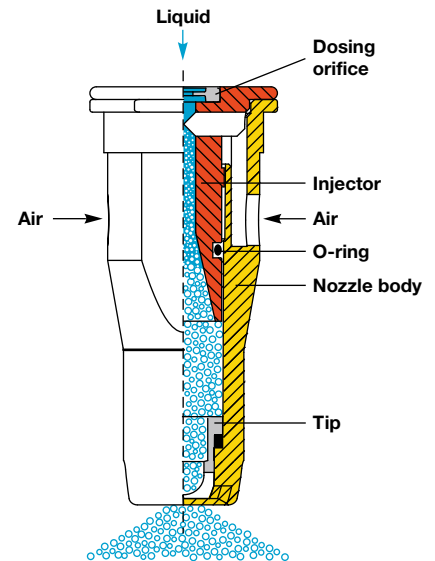
Use with IS 80 nozzles for border and field edge applications



Golf course



Toolless removable injector



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= order number
ID3	120°	025	(POM)	= ID-120-025
ID3	120°	025	C (ceramic)	= ID-120-025 C



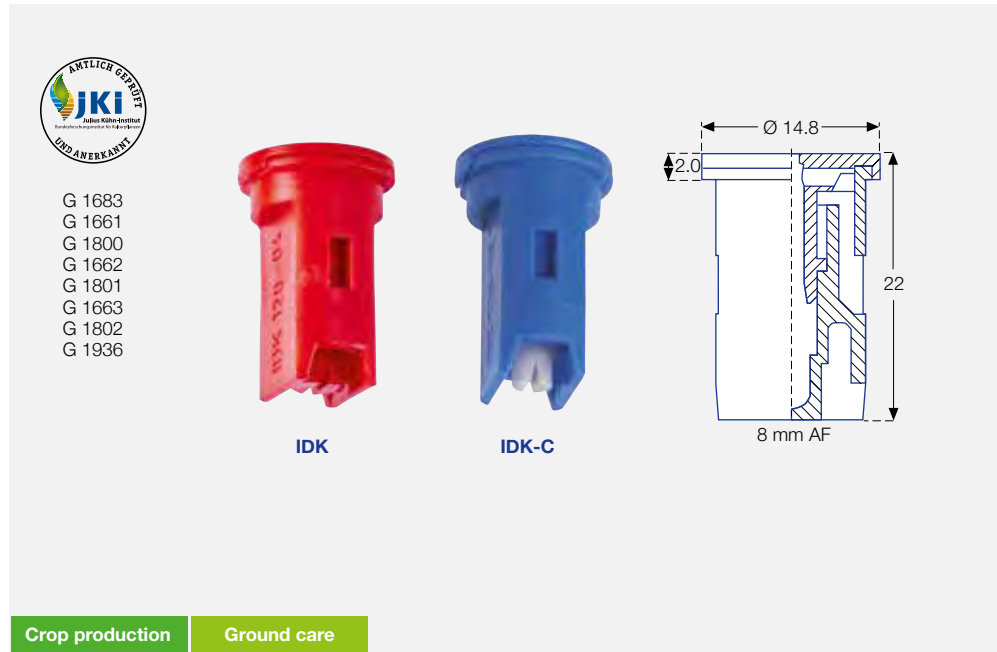
IDK Compact Air Induction flat spray nozzles

Main Benefits

- Very low drift potential
- Sturdy Design
- Removable fixed position injector
- Channel design minimizes clogging
- Compact design
- Operates at lower relative pressures than full length air induction nozzles
- Very good deposition structure and crop canopy penetration

Advantages

- Extremely coarse to medium droplets
- 90 % drift reduction - IDK 120-05 to 06
- Very low drift and loss-reducing up to 40 PSI (depending on size)
- Inexpensive alternative to conventional standard nozzles
- Very good deposition structure and crop penetration



ISO nozzle size
01 – 06



Spray angle
90°, 110°, 120°



Material
POM, ceramic



Pressure range
15-90 PSI



Recommended filters
50 Mesh: 02-06
100 Mesh: up to 02



Droplet size
Extremely coarse – medium



Width across flats
8 mm
Fits 8mm bayonet caps; Universal Y8253080

Application areas



Plant protection products and growth regulators



Liquid fertilizer



Spray frame



Use with IS 80 nozzles for border and field edge applications



Golf course



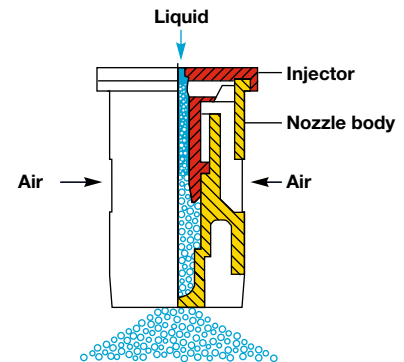
Backpack sprayer



Greenhouse



Toolless removable injector



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= order number
IDK	120°	01	(POM)	= IDK 120-01
IDK	120°	01	C (ceramic)	= IDK 120-01 C
IDK	120°	03	(PP)	= IDK 120-03 PP



IDTA Asymmetrical Twin Air Induction flat spray nozzles




Main Benefits

- **Extremely low drift potential**
- Sturdy Design
- Air induction twin flat spray nozzle for optimal desposition and reduced spray drift at higher driving speeds when compared to other styles of nozzles

Advantages

- **Ultra coarse to medium droplets**
- High drift reduction over entire pressure range
- Nozzle in cap with MULTIJET bayonet connection system
- Twin flat spray jet 30°/50° with asymmetrical spray angles and flow rates
 - 90°/120° gives on the target area the same spray width
 - Finer droplet spectrum to the front in driving direction for optimum wetting
 - Coarser, more drift-resistant droplet spectrum to the rear
 - Precise border application in combination with IS border nozzle
- Optimum user protection thanks to removal/installation of the injector with protective gloves without tools (Patented)

 **ISO nozzle size**
02 – 08

 **Spray angle**
Front 120°/
back 90°

 **Material**
Ceramic



G 2015
G 2016
G 2017
G 2018

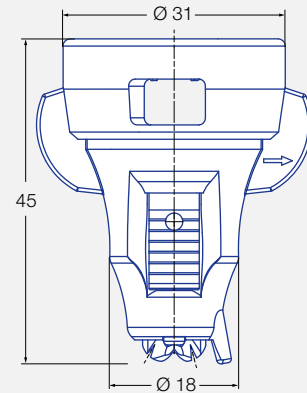


Crop production

Ground care



PATENTED



Pressure range
15-120 PSI



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Ultra coarse – medium

Application areas



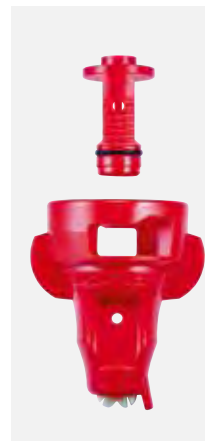
Plant protection products and growth regulators



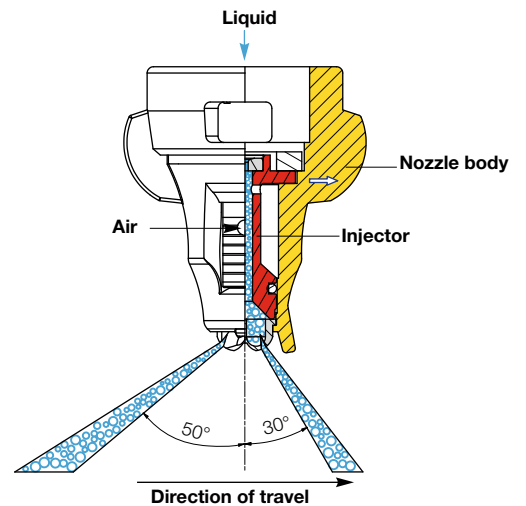
Use with IS 80 nozzles for border and field edge applications



Golf course



Toolless removable injector



Rear spray angle 90°
(40 % spray volume)

Front spray angle 120°
(60 % spray volume)

Direction of travel

Example of ordering

Type + spray angle + int'l nozzle size + material = order number
IDTA 120° 025 C (ceramic) = IDTA 120-025 C





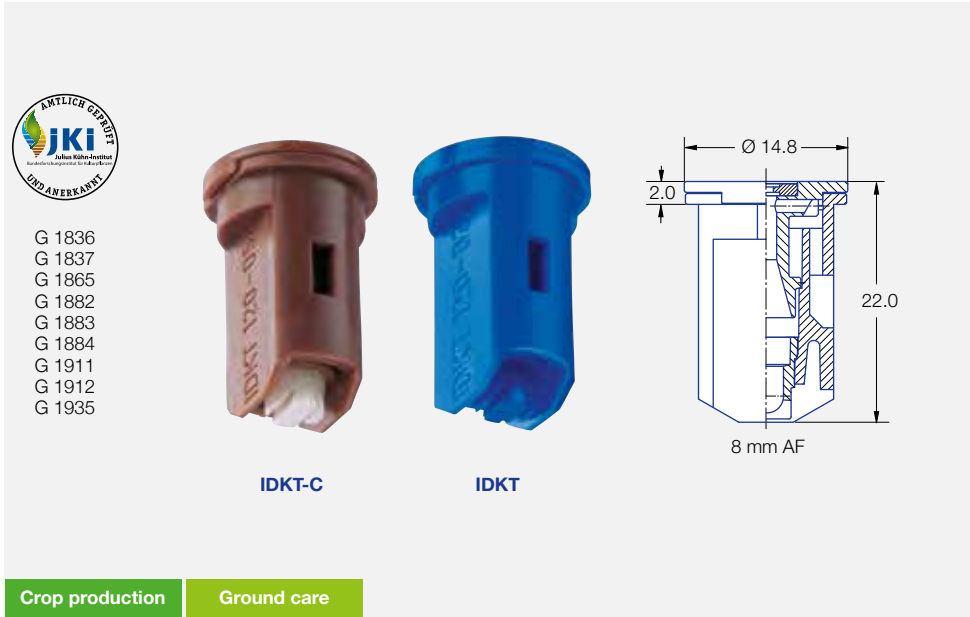
IDKT Twin Compact Air Induction flat spray nozzles

Main Benefits

- **Very low drift potential**
- Air-induction twin flat symmetrical pattern spray nozzle for optimized deposition and reduced spray shadow areas.
- Compact design minimizes clogging and breakage
- Excellent coverage on dense foliage and vertical targets

Advantages

- **Ultra coarse to medium droplets**
- 90 % drift reduction - IDKT 120-02 to 06
- Compact design
- Optimum deposition on foliage and vertical target surfaces thanks to symmetrical twin flat spray jet 30°/30°
- Reduced spray shadow
- Improved wetting thanks to balanced droplet spectrum
- JKI approval for mixed equipment with IDK nozzles with the same nozzle sized in the boom center section



ISO nozzle size
015 – 06



Spray angle
120°



Material
POM, ceramic



Pressure range
15-90 PSI



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Ultra coarse – medium



Width across flats
8 mm
Fits 8mm bayonet cap; Universal Y8253080

Application areas



Plant protection products and growth regulators



Spray frame



Use with IS 80 nozzles for border and field edge applications



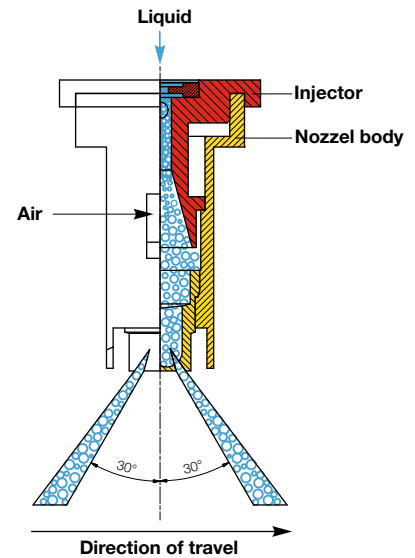
Golf course



Greenhouse



Toolless removable injector



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	=	order number
IDKT	120°	04	(POM)	=	IDKT 120-04
IDKT	120°	04	C (ceramic)	=	IDKT 120-04 C



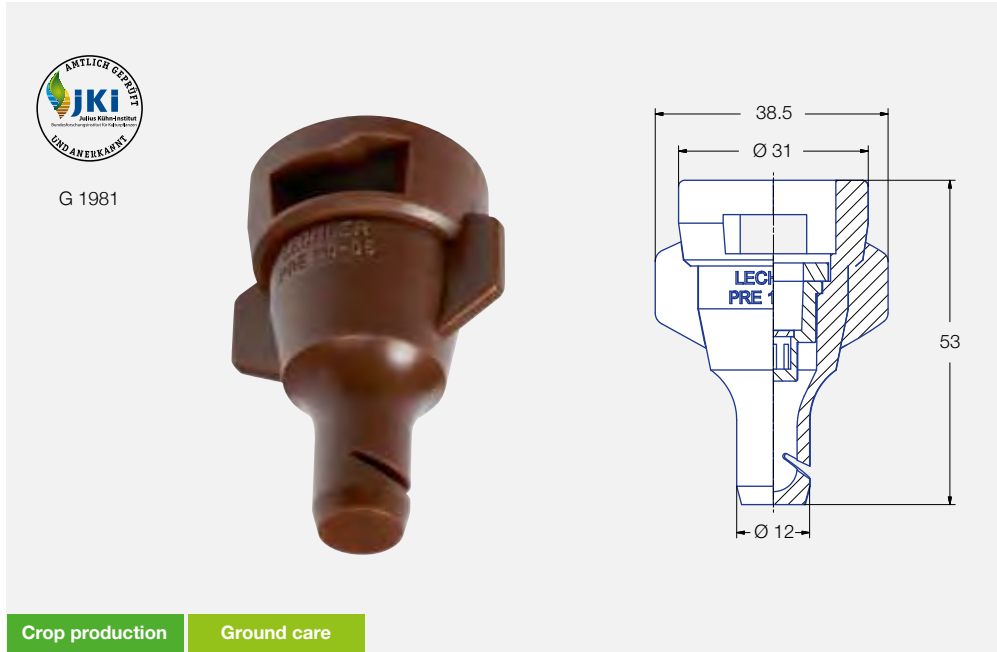
PRE Emergence flat spray nozzles

Main Benefits

- Extremely low drift potential
- Sturdy design
- Flat spray nozzle for timely application of pre-emergence herbicides.
- One piece body with bayonet style connection

Advantages

- Extremely coarse droplets
- 95 % drift reduction from 20-75 PSI
- Flexible adaption to buffer zones
- Wide pressure range from 20-120 PSI
- High workrate through simple adaptation of l/ha rate and driving speed
- Timely application even under adverse weather conditions
- Metering orifice is removable for cleaning



Crop production Ground care



ISO nozzle size
05



Spray angle
130°



Material
POM



Pressure range
20-120 PSI



Recommended filters
50 Mesh



Droplet size
Ultra coarse

Application areas



Use with Pre Emergence Herbicides



Liquid fertilizer



Golf course



Example of ordering

Type + spray angle + int'l nozzle size + material = order number
 PRE 130° 05 (POM) = PRE 130-05 POM



AD Anti-Drift flat spray nozzles

Main Benefits

- Low drift potential
- Sturdy Design
- Flat spray nozzle

Advantages

- Very coarse to fine droplets
- Application with medium to coarse droplet even with low GPA rates
- Integrated pre-chamber ensures optimized atomization and reduced fine droplet share
- Pre-chamber can be removed for cleaning



ISO nozzle size
01 – 04



Spray angle
90°, 110°, 120°



Material
POM, ceramic



Pressure range
20-90 PSI



Width across flats
8 mm
Fits 8mm bayonet cap; Universal Y8253080



Recommended filters
50 Mesh: 01-015
100 Mesh: 02-04



Droplet size
Very Coarse – fine

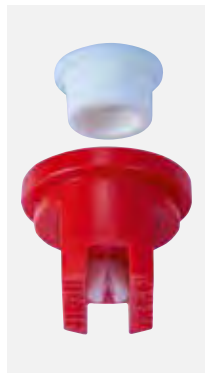


Width across flats
8 mm

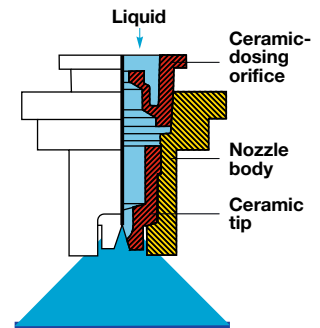
Application areas



Use with plant protection products and growth regulators



Removable preatomizer



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= order number
AD	120°	02	(POM)	= AD 120-02
AD	120°	02	C (ceramic)	= AD 120-02 C



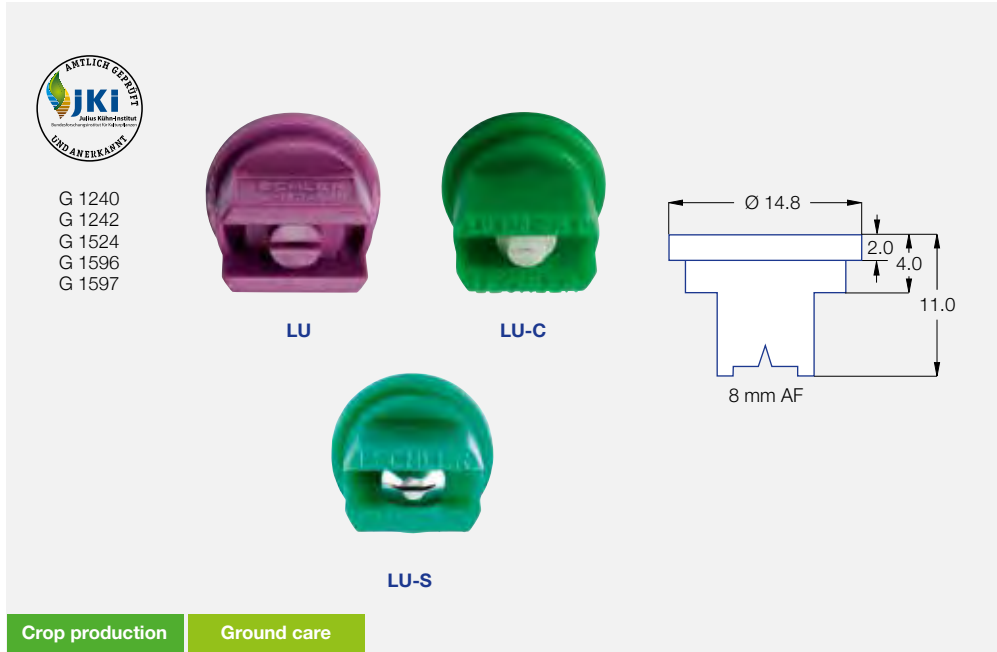
LU Multi Range flat spray nozzles

Main Benefits

- Low to medium drift potential
- Sturdy Design
- Multirange universal flat spray nozzle with a finer droplet spectrum

Advantages

- Very coarse to fine droplets
- Extended pressure range
- Low drift in the pressure range up to 40 PSI
- Great for electronic rate controllers
- High manufacturing quality



ISO nozzle size
01 – 08



Spray angle
80°, 90°, 110°, 120°



Material
POM, stainless steel, ceramic



Pressure range
20-70 PSI



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Very coarse – fine



Width across flats
8 mm
Fits 8mm bayonet caps; Y8253049 or Universal Y8253080

Application areas



Use with plant protection products and growth regulators



Use with OC 80 nozzles for border and field edge applications



Backpack sprayer



Greenhouse

Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	=	order number
LU	120°	02	(POM)	=	LU 120-02
LU	120°	015	C (ceramic)	=	LU 120-015 C
LU	120°	03	S (stainless steel)	=	LU 120-015 S



ST/SC Standard flat spray nozzles

Main Benefits

- **Medium drift potential**
- Standard flat spray nozzle (ST) or nozzle with a bayonet system
- One piece SC version includes bayonet style connection and gasket

Advantages

- **Medium droplets**
- Economical inexpensive flat spray nozzle
- Nozzle in cap offers
 - lower assembly and storage costs
 - simple and fast assembly



ISO nozzle size
01 – 08



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Spray angle
80°, 110°



Droplet size
Medium



Material
POM, ceramic,
brass on request



Width across flats
8 mm



Pressure range
30-75 PSI

Application areas



Plant protection products and growth regulators



Width across flats
8 mm
Fits 8mm bayonet cap; Y8253049 or Universal Y8253080



Use with OC nozzles for border application and field applications



Backpack sprayer (only ST)

Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= order number
SC	110°	03	(POM)	= SC 110-03 POM
ST	110°	03	(POM)	= ST 110-03 POM
ST	110°	03	C (ceramic)	= ST 110-03 POM



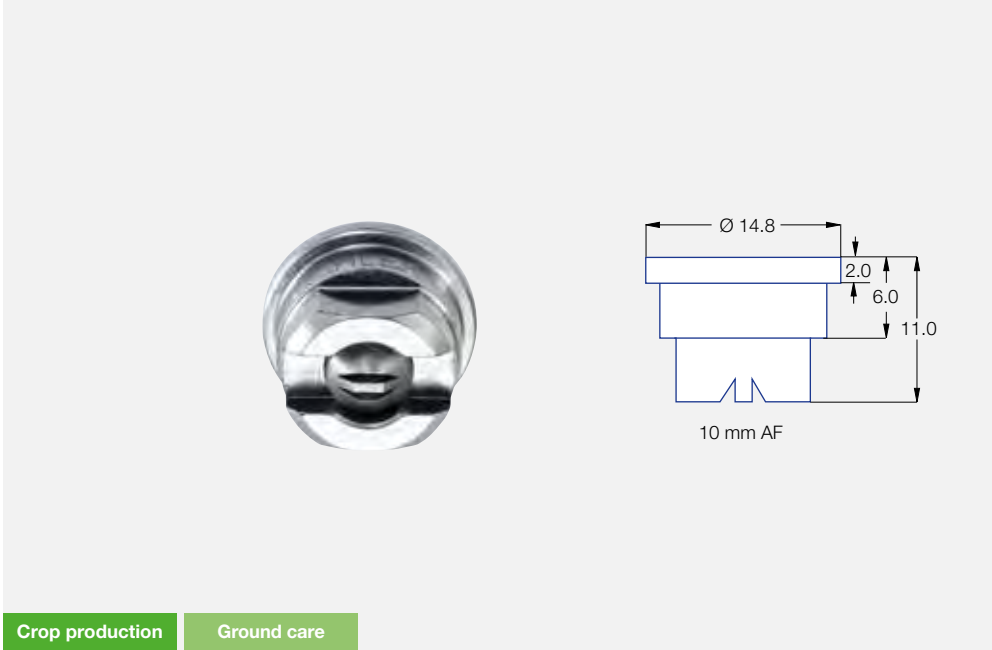
DF Twin flat spray nozzles

Main Benefits

- **Medium** Drift Potential
- Special purpose nozzle for crop coverage programs
- Excellent for contact fungicides and vertical target surface coverage

Advantages

- **Medium to very fine** droplets
- Low risk of clogging
- Symmetrical 30° patterns



Crop production Ground care



ISO nozzle size
02 – 06



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Spray angle
120°



Droplet size
Medium to Very Fine



Material
Stainless steel



Pressure range
30-75 PSI

Application areas



Plant protection products and growth regulators



Width across flats
10 mm
Fits 10mm bayonet caps; Y8253049 or Universal Y8253080



Use with OC nozzles for border and field applications

Example of ordering

Type	+ spray angle	+ int'l nozzle size	+	material	=	order number
DF	120°	03		S (stainless)	=	DF 120-03 S



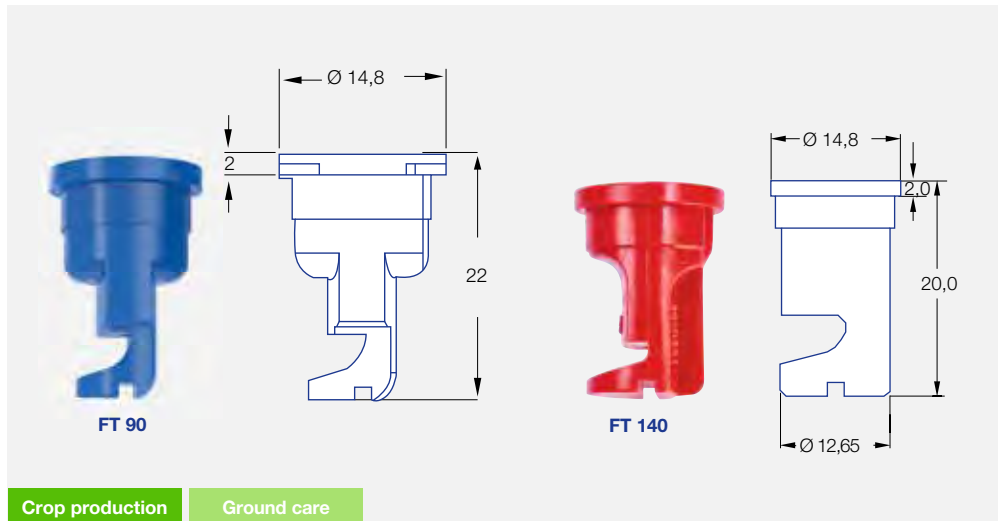
FT Flood nozzles

Main Benefits

- **Low/Medium** drift potential
- Clog-resistant flat spray nozzle
- Wide pattern for great coverage

Advantages

- **Very Coarse to Fine** droplets
- Compact design
- Round flow, self cleaning jet forming area
- Spray pattern forms at 15 PSI
- FT 90 high drift reduction thanks to integrated pre chamber



ISO nozzle size
0.5 – 10.0



Spray angle
90°, 140°



Material
POM,
stainless steel
(available by special order)



Pressure range
FT 140: 10-40 PSI
FT 90: 15-90 PSI



Recommended filters
50 Mesh: 02-10
100 Mesh: up to 02



Droplet size
Very Coarse – fine



Width across flats
Ø 12.65 mm
Fits self aligning
bayonet caps:
Y8253051

Application areas



Plant protection
products and
growth regulators



Backpack sprayer



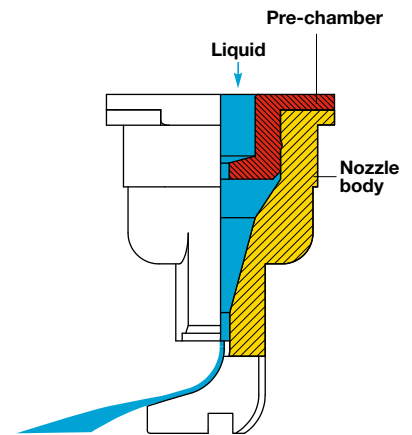
Dropleg^{UL}



Greenhouse



Band spraying
FT 90



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	=	order number
FT	140°	2.0	(POM)	=	FT 140 2.0 POM
FT	140°	2.0	S (stainless)	=	FT 14 2.0 S



TR Hollow Cone nozzles

Main Benefits

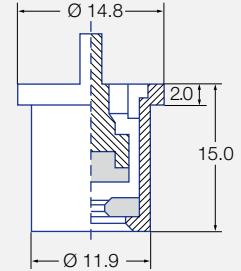
- **Medium** drift potential
- Hollow cone, fine droplet patterns for excellent crop coverage
- Ceramic insert for long wear
- Use with fungicides, insecticides, PGR's

Advantages

- **Medium to extremely fine droplets**
- Optimized droplet spectrum
- Insert can be removed easily for cleaning
- Clog resistant round bore design



G 1496
G 1497
G 1498



Crop production

Ground care



ISO nozzle size
005 – 05



Recommended filters
50 Mesh: 02-05
100 Mesh: up to 02



Spray angle
80°



Droplet size
Medium to extremely fine



Material
Ceramic

Application areas



Plant protection products and growth regulators



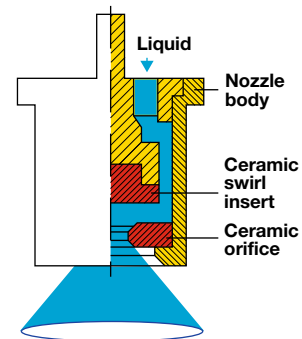
Plant protection in orchards



Backpack sprayer



Greenhouse



Pressure range
40-290 PSI



Width across flats
11.9 mm
Fits round caps;
Y8253050

Example of ordering

Type	+	spray angle	+	int'l nozzle size	+	material	=	order number
TR		80°		03		C(ceramic)	=	TR 80-03 C



ITR Air Induction Hollow Cone nozzles

Main Benefits

- **Extremely low** drift potential
- Ceramic insert for long wear

Advantages

- **Very Coarse to Medium** droplets
- Clog resistant round bore design
- Can use for high pressure drift sensitive programs



ISO nozzle size
01 – 02



Spray angle
80°



Material
Ceramic



Pressure range
40-435 PSI



Width across flats
11.9 mm
Fits round caps;
Y8253050





Recommended filters
100 Mesh: up to 02

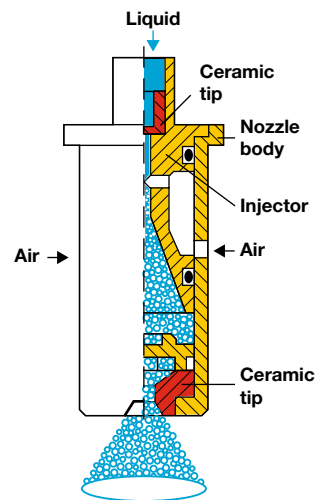


Droplet size
Very coarse to Medium

Application areas

 Plant protection products and growth regulators

 Plant protection in orchards



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	=	order number
ITR	80°	02	C(ceramic)	=	ITR 80-02 C



FD Liquid Fertilizer nozzles

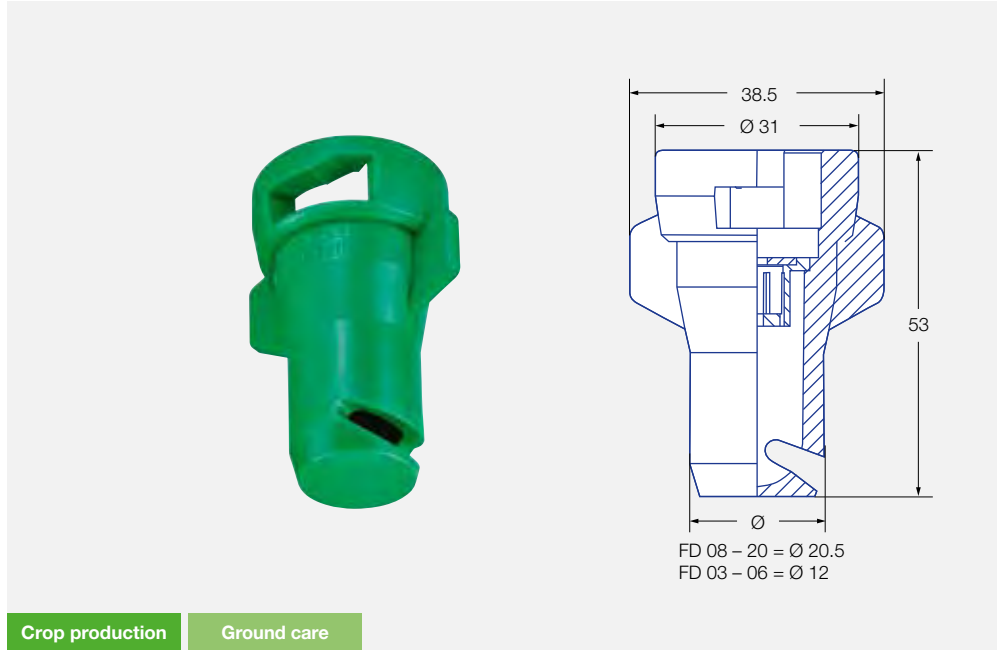
PATENTED

Main Benefits

- **Extremely low** drift potential
- Flat spray with a horizontal pattern
- One piece design with bayonet style connection

Advantages

- **Ultra coarse** droplets
- Ideal for fertilizers, extremely low crop impact
- Droplet size profile yields minimal crop scorching risk
- Optimum cross distribution for no streaking
- Metering orifice is removable for cleaning



Crop production | Ground care



ISO nozzle size
03 - 20



Spray angle
130°



Material
POM



Pressure range
20-60 PSI



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Ultra coarse

Application areas



Liquid fertilizer



Greenhouse

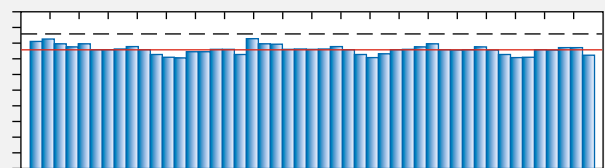


Golf course



Toolless removable dosing orifice

FD-04 Cross distribution on patternator (with water)
Spray pressure: 30 PSI - spray height: 600mm - CV: 3.4
%



Example of ordering

Type + spray angle + int'l nozzle size + material = order number
 FD 130° 04 (POM) = FD 130-04





FL 5 Orifice Fertilizer nozzles

Main Benefits

- **Extremely low drift potential**
- Forms gentle, horizontal streams

Advantages

- **Ultra coarse droplets**
- Nozzle bodies can be combined with dosing orifices
- Flow rate changes with orifice size
- Minimal leaf damage



Orifice diameter
0.8 – 1.8 mm



Recommended filters
50 Mesh - 0.8-1.8mm



Spray angle
160°



Droplet size
Ultra coarse



Material
- Nozzle body:
POM, stainless steel
- Dosing orifice:
stainless steel



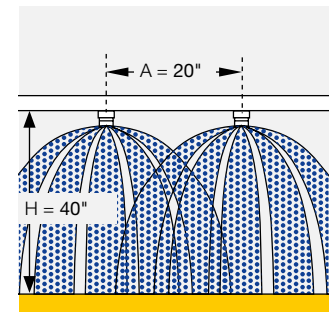
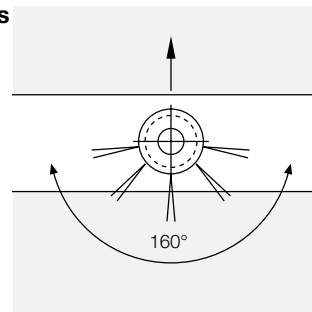
Width across flats
10 mm



Pressure range
- Dosing orifice
0.8 mm: 15-70 PSI
- Dosing orifice
1.2 mm: 15-60 PSI
- Dosing orifice
1.5 – 1.8 mm: 15-45 PSI



Application area
Liquid fertilizer



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	=	order number
FL	160°	0.8	(Black)(POM)	=	FL 160 0.8 Black P
FL	160°	0.8	(Gray)(POM)	=	FL 160 0.8 Gray P
FL	160°	0.8	S (stainless steel)	=	FL 160 0.8 S



IS Off Center Air Induction flat spray nozzles

Main Benefits

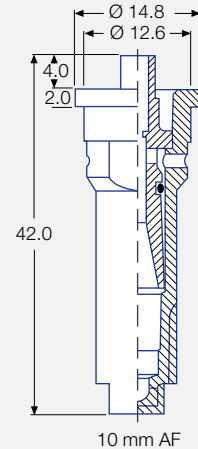
- Extremely low drift potential
- Sturdy Design
- Extremely low drift off center nozzle for border application and banding

Advantages

- Very coarse to coarse droplets
- Same JKI drift reduction class when used in combination with ID3/ID/IDK nozzles
- Volume flow adapted for optimum cross distribution when used in combination with ID3/ID/IDK nozzles
- Asymmetrical spray pattern (20°/60° to vertical axis)
- Precise edge application along water courses and field boundaries
- For protection of neighboring crops and restricted areas



G 1682
G 1753
G 1754
G 1755
G 1999
G 2000



Crop production

Ground care



ISO nozzle size
02 – 06



Spray angle
80°



Material
POM



Pressure range
- Boom Sprayers 30-120 PSI
- Orchard/Vineyards Sprayers up to 220 PSI



Near width across flats
Fits 10 mm bayonet caps Y8253049 or Universal Y8253080



Recommended filters
50 Mesh: 02-06
100 Mesh: up to 02



Droplet size
Very coarse – coarse



Width across flats
10 mm

Application areas



Border nozzle



Band spraying in orchards and vineyards



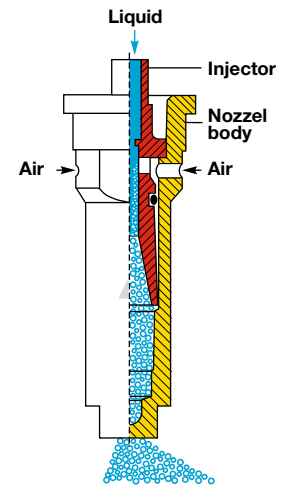
Vertical boom



Spray frame



Toolless removable injector



Example of ordering

Type + spray angle + int'l nozzle size + material = order number
IS 80° 02 (POM) = IS 80-02



BN Off Center flat spray nozzles

Main Benefits

- **Low/Medium** drift potential
- Off center, directional nozzles
- Clog resistant flat spray nozzle
- Wide pattern for boomless installations
- Use for border, banding under tree spraying

Advantages

- **Very coarse to fine** droplets
- Color coded- white=left, black=right
- Round flow, self cleaning jet forming area
- Good pattern forms at 15 PSI



Nozzle size range
07



Recommended filters
50 Mesh: 07



Spray angle
100°



Droplet size
Very coarse to fine



Material
POM



Pressure range
10-40-90 PSI

Application areas



Banding



Width across flats
12.65 mm
Fits slotted caps
bayonet caps;
Y8253051



Boomless application

Example of ordering

Type + spray angle + int'l nozzle size + direction left/white; right/black + material = order number
 BN 100° 07 L (POM) = BN 100 07 L POM



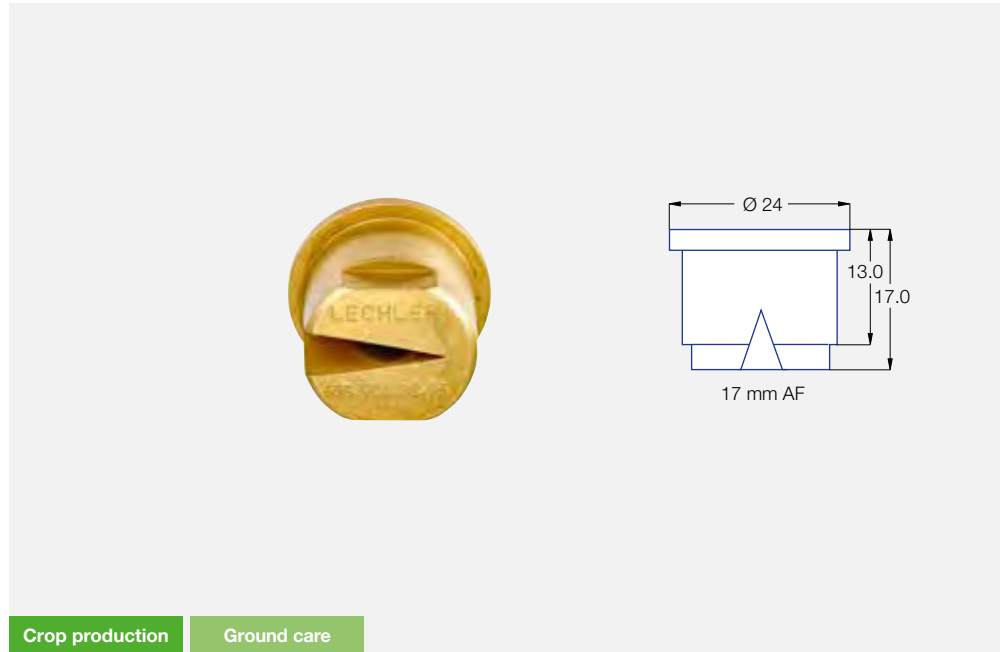
OC Off Center flat spray nozzles

Main Benefits

- Medium drift potential
- Off center nozzle with wide throw capabilities

Advantages

- Medium to fine droplets
- Laterally offset orifice
- Asymmetrical flat spray pattern
- Spraying range up to 26 feet



Nozzle size
02-08 Row Crop
12-80 Roadside



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Spray angle
90°



Droplet size
Medium – fine



Material
Brass



Pressure range
30-75 PSI



Application areas
Greenhouse



Width across flats
8 mm
Fits 8mm bayonet caps; Y8253048 or Universal Y8253080



Riding arena floor

17 mm for roadside applications



Boomless application

Example of ordering

Type	+ spray angle	+ int'l nozzle size	+	material	=	order number
OC	90°	03		B (brass)	=	OC 90-03 B





ES Even flat spray nozzles

Main Benefits

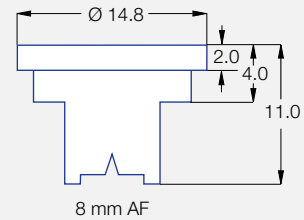
- **Medium drift potential**
- Sturdy Design
- Flat spray nozzles with rectangular liquid distribution pattern for banding, under canopy and backpack handgun sprayers

Advantages

- **Medium droplets**
- Only even flat spray nozzle with 90 % drift reduction approved by JKI!
- Fully formed spray angle at 15 PSI
- Uniform active ingredient distribution over the entire bandwidth
- Extremely small spraying distances possible
- Product application quantity only 10 – 50 % in comparison with full-area treatment



G 1435
G 1436
G 1437
G 1438



Crop production

Ground care



ISO Nozzle size range
01 – 08



Spray angle
80°, 90°



Material
Brass, POM



Pressure range
15-60 PSI



Width across flats
8 mm
Fits 8mm bayonet caps; Universal Y8253080



Recommended filters
50 Mesh: 02-08
100 Mesh: up to 02



Droplet size
Medium

Application areas



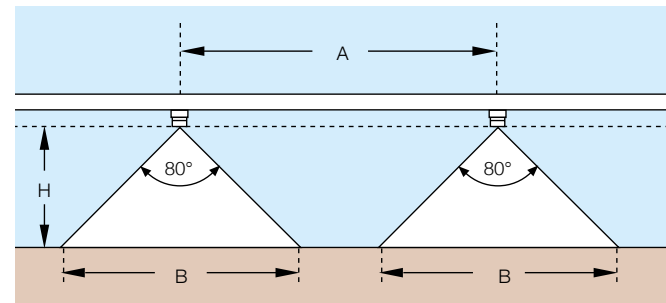
Band spraying



Backpack sprayer

Nozzle alignment

Lechler's even flat spray nozzles E enable extremely short spray heights (H), thus extensively avoiding band drift. The width of the spray band (B) can be varied by altering the spray height (H) and/or rotating the spray axis to change the spray offset.



Spray height H in	Band width B in	Application rate* (in %), for a row spacing A		
		50 in	75 in	100 in
3	4	20	13	10
4	6	30	20	15
5	8	40	27	20
6.25	10	50	33	25

* Percentages in comparison with full-area treatment

Example of ordering

Type + spray angle + int'l nozzle size + material = order number
E 80° 02 Brass = 8002 E brass
E 80° 02 POM = 8002 E



Twin Spray Cap for air induction nozzles and flat spray nozzles

Bayonet connection cap with symmetrical twin flat spray jets at 30°/30° spray angles

Advantages

- Variable nozzle selections, different nozzle types and sizes
- Enhanced deposition through combination of low-drift injector nozzles and standard flat spray nozzles
- Fits AF8, AF10 and slotted flood nozzles
- Nozzle assembly without tools through plug-in clip system
- Universal and Hardi bayonet systems available



Pre Assembled Styles

Twin Air Low Pressure: 30-50 PSI working range; using standard flat fan nozzles

Twin Air: 15-90 PSI working range; using IDK air induction nozzles

Twin Air Ceramic: 80 PSI & up working range; using ID/ID3 ceramic air induction nozzles



Width across flats
8 and 10 mm

Application areas



Plant protection products and growth regulators



Spray frame



Dropleg^{UL}



FT Flood Nozzles with round hole bore, e.g. for use on Dropleg^{UL} (S. 103) Order. no.: 092.163.56.10



Universal Bayonet
Order. no.: 092.163.56.00



Hardi connection Order. no.: 092.163.56.01



Select Lechler Nozzles Droplet Size Table

PSI	15	20	25	30	35	40	50	60	70	80	90	100
ID 110 01	VC	VC	VC	VC	C	C	C	C				
ID 110 015	VC	VC	VC	VC	VC	VC	VC	C	C	C	C	C
ID 110 02	VC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	C
ID 110 025	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	C	C
ID 110 03	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	VC
ID 110 04	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC
ID 110 05	XC	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC
ID 110 06	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	VC
ID 110 08	UC	UC	UC	UC	UC	UC	XC	XC	XC	XC	XC	XC

PSI	15	20	25	30	35	40	50	60	70	80	90	100
ID3 110 01	XC	VC	VC	VC	VC	VC	C	C				
ID3 110 015	XC	XC	XC	XC	XC	XC	VC	C	C	C	C	C
ID3 110 02	VC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	C
ID3 110 025	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	C	C
ID3 110 03	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC	VC
ID3 110 04	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC	VC
ID3 110 05	XC	XC	XC	XC	XC	XC	XC	XC	XC	VC	VC	VC
ID3 110 06	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	VC
ID3 110 08	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC	XC

PSI	15	20	25	30	35	40	50	60	70	80	90	100
IDTA 120 02 C	UC	UC	XC	XC	XC	XC	VC	VC	VC	C	C	C
IDTA 120 025 C	UC	UC	UC	UC	XC	XC	XC	VC	VC	VC	VC	C
IDTA 120 03 C	UC	UC	UC	XC	XC	XC	VC	VC	VC	C	C	C
IDTA 120 04 C	UC	UC	UC	XC	XC	XC	XC	VC	VC	C	C	C
IDTA 120 05 C	UC	XC	XC	XC	XC	XC	VC	VC	C	C	C	C
IDTA 120 06 C	UC	XC	XC	XC	XC	VC	VC	VC	C	C	M	M
IDTA 120 08 C	UC	XC	XC	XC	XC	VC	VC	VC	C	C	C	C

PSI	15	20	25	30	35	40	50	60	70	80	90
IDK 110 01	VC	VC	VC	C	C	C	M	M			
IDK 110 015	VC	VC	VC	VC	VC	C	C	M	M	M	M
IDK 110 02	VC	VC	VC	VC	C	C	C	C	M	M	M
IDK 110 025	VC	VC	VC	VC	VC	VC	C	C	C	M	M
IDK 110 03	VC	VC	VC	VC	VC	VC	VC	C	C	M	M
IDK 110 04	XC	XC	XC	XC	VC	VC	VC	C	C	C	C
IDK 110 05	XC	XC	XC	XC	XC	XC	VC	VC	VC	C	C
IDK 110 06	XC	XC	XC	XC	XC	XC	XC	VC	VC	C	C



PSI	15	20	25	30	35	40	50	60	70	80	90
IDKT 120 015	UC	UC	XC	XC	XC	VC	VC	C	C	C	M
IDKT 120 02	XC	XC	XC	XC	XC	VC	C	C	M	M	M
IDKT 120 025	XC	XC	VC	VC	VC	C	C	M	M	M	M
IDKT 120 03	XC	XC	VC	VC	VC	C	C	C	M	M	M
IDKT 120 04	XC	XC	XC	VC	VC	C	C	M	M	M	M
IDKT 120 05	XC	XC	XC	VC	VC	C	C	M	M	M	M
IDKT 120 06	XC	XC	XC	VC	VC	VC	C	C	C	M	M



PSI	15	20	25	30	35	40	50	60	70	80	90
AD 110 015	M	M	M	M	M	M	M	F	F	F	F
AD 110 02	C	C	C	C	C	M	M	M	M	M	M
AD 110 03	C	C	C	C	C	C	M	M	M	M	M
AD 110 04	VC	VC	VC	VC	C	C	C	M	M	M	M

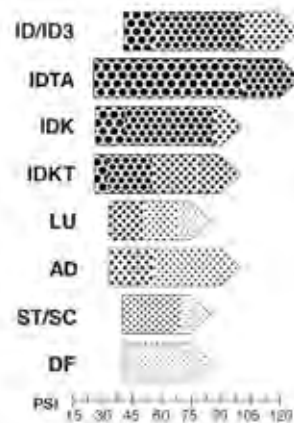
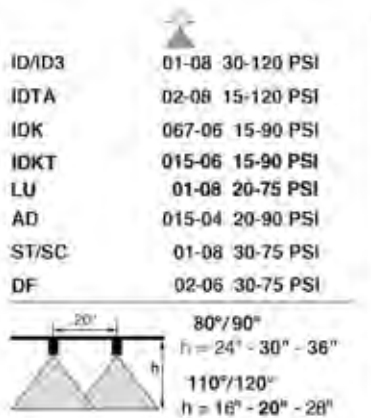
PSI	15	20	25	30	35	40	50	60	70
LU 110 01	F	F	F	F	F	F	F	F	F
LU 110 015	F	F	F	F	F	F	F	F	F
LU 110 02	M	F	F	F	F	F	F	F	F
LU 110 025	M	M	M	M	M	M	F	F	F
LU 110 03	M	M	M	M	M	F	F	F	F
LU 110 04	M	M	M	M	M	M	M	M	M
LU 110 05	M	M	M	M	M	M	M	M	M
LU 110 06	C	C	M	M	M	M	M	M	M
LU 110 08	VC	C	C	C	C	C	C	M	M

Droplet size classification		Dv50 Range
XF	Extremely Fine	< 60
VF	Very Fine	61-105
F	Fine	106-235
M	Medium	235-340
C	Coarse	341-405
VC	Very Coarse	406-505
XC	Extremely Coarse	506- 675
UC	Ultra Coarse	> 676

Spray table

 ()	 psi	Capacity per nozzle		Gallons / Acre / 20" Nozzle Spacing								
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	16 mph
01 ORANGE ID/ID3 IDK LU ST/SC ES TR ITR FT90 FT140	15	0.061	8	4.5	3.6	3	2.6	2.3	1.8	1.5	1.3	1.1
	20	0.071	9	5.3	4.2	3.5	3	2.6	2.1	1.8	1.5	1.3
	30	0.087	11	6.5	5.2	4.4	3.7	3.2	2.6	2.2	1.8	1.6
	35	0.094	12	7	5.6	4.7	4	3.5	2.8	2.3	2	1.7
	40	0.1	13	7.4	5.9	5	4.2	3.7	3	2.5	2.1	1.9
	50	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2
	60	0.12	15	8.9	7.1	5.9	5.1	4.5	3.6	3	2.5	2.2
	70	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4
	80	0.14	18	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3	2.6
	90	0.15	19	11	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8
100	0.16	20	11.9	9.5	7.9	6.8	5.9	4.8	4	3.4	3	
015 GREEN ID/ID3 IDK IDKT LU AD ST/SC ES TR ITR FT90 FT140	15	0.092	12	6.8	5.4	4.6	3.9	3.4	2.7	2.3	2	1.7
	20	0.11	14	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2
	30	0.13	17	9.7	7.7	6.4	5.5	4.8	3.9	3.2	2.8	2.4
	40	0.15	19	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8
	50	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6	3.2
	60	0.18	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3
	70	0.20	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2	3.7
	80	0.21	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9
	90	0.23	29	17.1	13.7	11.4	9.8	8.5	6.8	5.7	4.9	4.3
	100	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5
02 YELLOW ID/ID3 IS IDK IDKT IDTA LU AD ST/SC ES DF OC TR ITR FT90 FT140	15	0.12	15	8.9	7.1	5.9	5.1	4.5	3.6	3	2.5	2.2
	20	0.14	18	10.4	8.3	6.9	5.9	5.2	4.2	3.5	3	2.6
	30	0.17	22	12.6	10.1	8.4	7.2	6.3	5	4.2	3.6	3.2
	40	0.20	26	14.9	11.9	9.9	8.5	7.4	5.9	5	4.2	3.7
	50	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	60	0.24	31	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5
	70	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5	4.8
	80	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	90	0.30	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	100	0.32	41	24	19	15.8	13.6	11.9	9.5	7.9	6.8	5.9
025 VIOLET ID/ID3 IS IDK IDKT IDTA LU ST/SC	15	0.15	19	11.1	8.9	7.4	6.5	5.6	4.5	3.7	3.3	2.8
	20	0.18	23	13.4	10.7	8.9	7.7	6.7	5.3	4.5	3.9	3.4
	30	0.22	28	16.3	13.1	10.9	9.3	8.2	6.5	5.4	4.7	4.1
	40	0.25	32	18.6	14.9	12.4	10.6	9.3	7.4	6.2	5.3	4.6
	50	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	60	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8
	70	0.33	42	25	19.6	16.3	14	12.3	9.8	8.2	7	6.1
	80	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.5
	90	0.38	49	28	23	18.8	16.1	14.1	11.3	9.4	8.1	7.1
	100	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5	7.4
03 BLUE ID/ID3 IS IDK IDKT IDTA LU AD ST/SC ES DF OC TR FD FT90 FT140	15	0.26	23	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3
	20	0.26	27	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9
	30	0.26	33	19.3	15.4	12.9	11	9.7	7.7	6.4	5.5	4.8
	40	0.3	38	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6
	50	0.34	44	25	20	16.8	14.4	12.6	10.1	8.4	7.2	6.3
	60	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8	6.9
	70	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5	7.4
	80	0.42	54	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8
	90	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4
	100	0.47	60	35	28	23	19.9	17.4	14	11.6	10	8.7
04 RED ID/ID3 IS IDK IDKT IDTA LU AD ST/SC ES DF OC TR FD FT90 FT140	15	0.24	31	18	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5
	20	0.28	36	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2
	30	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.4
	40	0.4	51	30	24	19.8	17	14.9	11.9	9.9	8.5	7.4
	50	0.45	58	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4
	60	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4	9.1
	70	0.53	68	39	31	26	22	19.7	15.7	13.1	11.2	9.8
	80	0.57	73	42	34	28	24	21	16.9	14.1	12.1	10.6
	90	0.6	77	45	36	30	25	22	17.8	14.9	12.7	11.1
	100	0.63	81	47	37	31	27	23	18.7	15.6	13.4	11.7

 ()	 psi	Capacity per nozzle		Gallons / Acre / 20" Nozzle Spacing								
		gpm	oz/min	4 mph	5 mph	6 mph	7 mph	8 mph	10 mph	12 mph	14 mph	16 mph
05 BROWN ID/ID3 IS IDK IDKT IDTA LU ES ST/SC DF OC TR FD FT90 FT140	15	0.31	40	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8
	20	0.35	45	26	21	17.3	14.9	13	10.4	8.7	7.4	6.5
	30	0.43	55	32	26	21	18.2	16	12.8	10.6	9.1	8
	40	0.5	64	37	30	25	21	18.6	14.9	12.4	10.6	9.3
	50	0.56	72	42	33	28	24	21	16.6	13.9	11.9	10.4
	60	0.61	78	45	36	30	26	23	18.1	15.1	12.9	11.3
	70	0.66	84	49	39	33	28	25	19.6	16.3	14	12.3
	80	0.71	91	53	42	35	30	26	21	17.6	15.1	13.2
	90	0.75	96	56	45	37	32	28	22	18.6	15.9	13.9
	100	0.79	101	59	47	39	34	29	23	19.6	16.8	14.7
06 GRAY ID/ID3 IS IDK IDKT IDTA LU ES ST/SC DF OC FD FT140	15	0.37	47	27	22	18.3	15.7	13.7	11	9.2	7.8	6.9
	20	0.42	54	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8
	30	0.52	67	39	31	26	22	19.3	15.4	12.9	11	9.7
	40	0.6	77	45	36	30	25	22	17.8	14.9	12.7	11.1
	50	0.67	86	50	40	33	28	25	19.9	16.6	14.2	12.4
	60	0.73	93	54	43	36	31	27	22	18.1	15.5	13.6
	70	0.79	101	59	47	39	34	29	23	19.6	16.8	14.7
	80	0.85	109	63	50	42	36	32	25	21	18	15.8
	90	0.9	115	67	53	45	38	33	27	22	19.1	16.7
	100	0.95	122	71	56	47	40	35	28	24	20	17.6
08 WHITE ID/ID3 IDTA LU ST/SC ES OC FD FT140	15	0.49	63	36	29	24	21	18.2	14.6	12.1	10.4	9.1
	20	0.57	73	42	34	28	24	21	16.9	14.1	12.1	10.6
	30	0.70	90	52	42	34.6	29.8	26	20.8	17.4	14.8	12.8
	40	0.80	102	60	48	39.6	34	29.8	23.8	19.8	17	14.8
	50	0.90	116	66	54	44	38.2	33.4	26.8	22.2	19	16.8
	60	0.98	126	72	58	48	42	36.4	29.2	24.2	20.8	18.2
	70	1.06	136	78	62	52	44	39.4	31.4	26.2	22.4	19.6
	80	1.14	146	84	68	56	48	42	33.8	28.2	24.2	21.2
	90	1.20	154	90	72	60	50	44	35.6	29.8	25.4	22.2
	100	1.26	162	94	74	62	54	46	37.4	31.2	26.8	23.4



10 GPA
 12 mph

16 GPA x 20" nozzle spacing x 12 mph
 5940
 ≈ 40 GPM
 Target Spray Rate

→ ID-110 04 @ 40PSI

41 sec. = 5 mph
 26 sec. = 8 mph
 17 sec. = 12 mph

300 FT

**ENGINEERING
YOUR SPRAY SOLUTION**



LECHLER WORLD-WIDE



Lechler GmbH · Agricultural Nozzles and Accessories
P.O. Box 13 23 · 72544 Metzingen, Germany · Phone +49 7123 962-0 · Fax +49 7123 962-480 · info@lechler.de · www.lechler.com

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