ENGINEERING
YOUR SPRAY SOLUTION

LECHLER

Field crops
Nozzles, Accessories and Spray Recommendation
Catalogue P 2020

Field crops

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

Lechler is a world leader in nozzle technology. For over 140 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 favour 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.

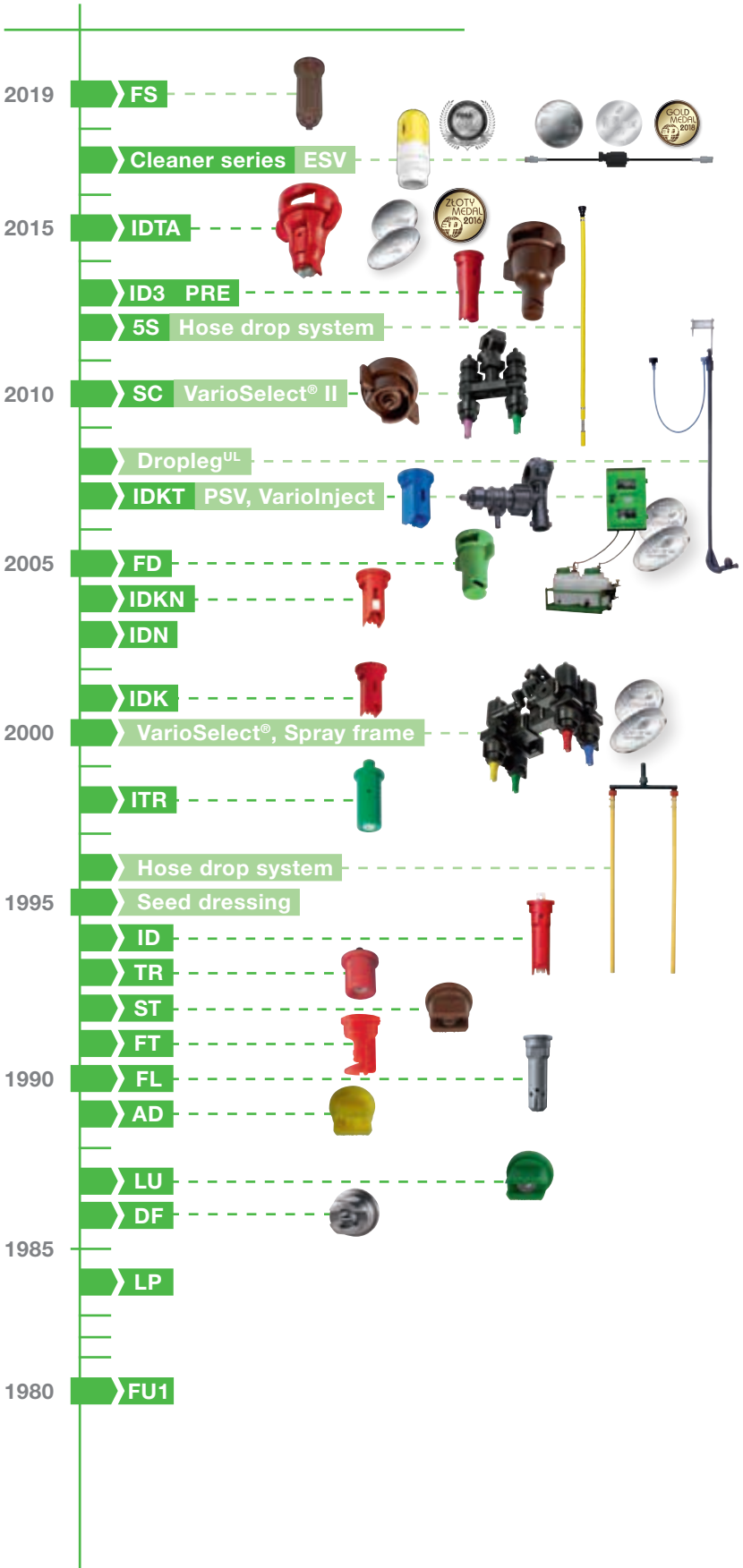
With Lechler nozzles, one spray jet is the same as the next. This demands a high level of precision and care in production. Our processes are therefore subject to permanent quality control measures, from the incoming goods department, through development and production right up to dispatch. Our quality management system is based primarily on the requirements of our customers and is certified in accordance with ISO 9001:2015. 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 and accessory range so see for yourself our product range.

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.



THE RIGHT NOZZLE FOR YOUR PLANT PROTECTION

As part of efficient crop production, it is nowadays necessary to observe a large number of different requirements and reconcile these with each other.

National and international regulations have to be taken into account as well as biological and ecological aspects. And as the bottom line, economical delivery of all plant protection products must also be guaranteed. At Lechler, we focus all our attention on combining these requirements in the optimum nozzle for your particular application.

Technical requirements

Compliance with the requirements of JKI, ENTAM as well as the international EN/ISO standards with respect to flow rate tolerance and distribution uniformity is an essential part of ensuring optimum use of plant protection products.

In the case of JKI-approved Lechler nozzles, the flow rate of new nozzles may deviate from the table value by a maximum of +/– 5 %. This applies for spraying both field crops as well as bush and tree crops.

In combination, new JKI-approved nozzles must guarantee the most uniform cross distribution possible.

Coefficient of variation over the entire width of the spray boom must not exceed 7 % in the specified pressure range and with the corresponding spray heights.

AMTLICH GEPRÜFT UND ANERKANNT
JKI
Julius Kühn-Institut
Bundesforschungsinstitut für Kulturpflanzen

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. Independently of this, the recommendations of the plant protection product manufacturers with respect to application rates must always be observed.

Determination of the target area before use is of decisive importance for optimum deposition of the plant protection product.

Flat spray and twin flat spray nozzles are available. Flat spray nozzles generally achieve good crop penetration (e.g. mildew control in cereal crops). In contrast, twin flat spray nozzles are recommended for optimum deposition on vertical target surfaces (e.g. grass control, ear treatment) and to reduce spray shadow (e.g. direct seed, cloddy soil).

Environmentally-relevant requirements

Drift
Spray drift refers to droplets containing crop protection chemicals which are not deposited on the target area due to wind or thermal current. These droplets can pollute or damage adjacent crops, contaminate nearby waters and pose a risk to both humans and animals.

In addition, drift frequently leads to incorrect dosages for the crop being treated.

The reasons of drift depend on equipment-specific and meteorological factors such as

- droplet size
- sprayer velocity
- spray height
- wind speed
- air temperature
- air humidity

Drift-reducing technology

Application regulations for plant protection products, e.g. distance restrictions to water and field boundary structures, have been defined in order to protect non-target organisms. Depending on the toxicity of the plant protection product, the distances from water and field boundaries can be reduced with loss-reducing equipment, e.g. with air-injector nozzles.

Lechler nozzles are officially approved in Germany, Austria, England, Finland, France, the Netherlands, Belgium and Sweden as drift-reducing devices in the drift reduction classes 99/95/90/75/66/50 and 25 %. The criteria on which the distance regulations are based in the individual countries comprise, among other things, the nozzle technology, water type, bank vegetation, width of the field boundary, mixture concentration, process technology (e.g. pressure) as well as external influences such as wind direction, wind speed and temperature.

Drift-reducing Lechler nozzles allow areas to be used more efficiently while at the same time protecting field boundaries and water.

INNOVATIVE NOZZLE DESIGN – 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 oriented design.

The IDTA is a high drift reducing asymmetrical twin flat spray air-injector nozzle for optimal coverage at higher forward speeds.

The newest development in the wide range of agricultural spray nozzles is suitable for a wide range of applications.

Optimized twin flat spray concept

For best deposit 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 result at higher forward speed.

Facts

To prove the high efficiency of the IDTA several field tests have been conducted. Deposit at vertical targets (e. g. black grass) has been checked with water sensitive paper. This test has been done with a field sprayer Amazone UF 1201 with 15 m boom. Results show significant difference on front and back at different forward speed between the different nozzles.

Type	Lechler ID 120-03 (ID3)	Lechler IDTA 120-03	Competitor Asym. DF 110-03
Pressure	5 bar	5 bar	5 bar
Speed	12 km/h	12 km/h	12 km/h
Deposit towards front Coverage in % + Droplet number/cm²	 5.4 % + 5 d/cm²	 15.5 % + 10 d/cm²	 5.9 % + 5.6 d/cm²
Deposit towards back Coverage in % + Droplet number/cm²	 9.5 % + 24.9 d/cm²	 30.2 % + 60.7 d/cm²	 27.2 % + 63.5 d/cm²

More applications

As a consequence 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.

Results

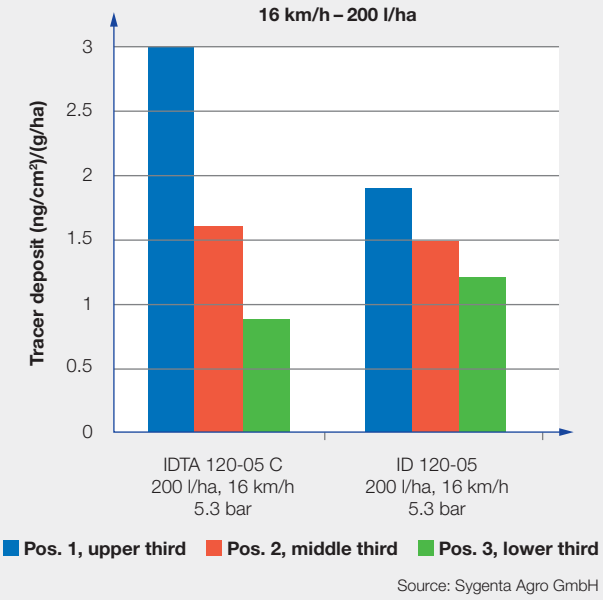
Compared to standard air-injector nozzles e. g. ID 120-03 the IDTA gives clear advantages in the field:

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

Nozzle type influences deposit on target area

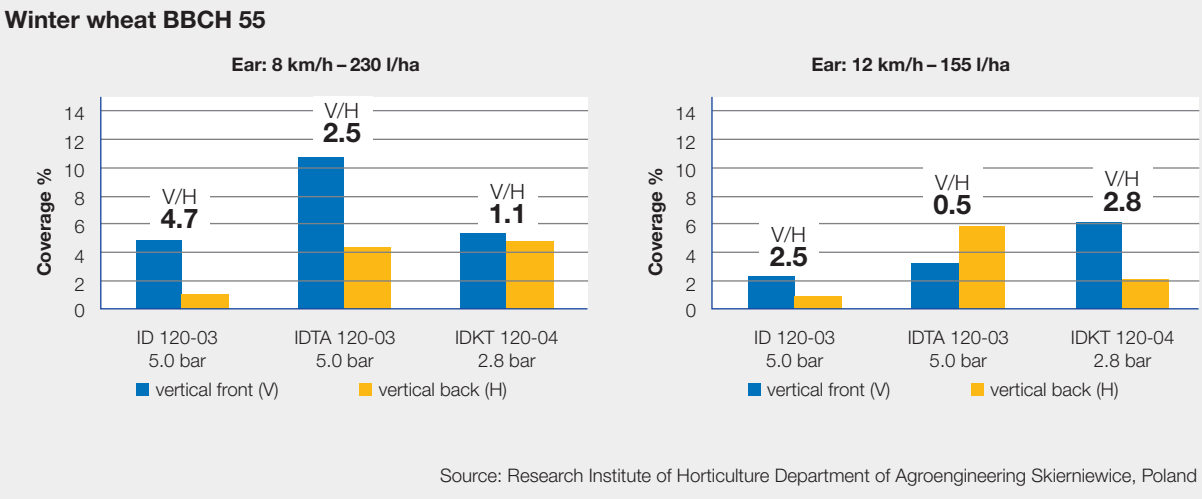
To obtain high biological efficacy best coverage at the target is prerequisite. Depending on crop and growth stage this may change. So for optimum application there is a need for at least two or more different nozzle settings. Important is to know the target area.

Better coverage on vertical targets can be achieved by using twin flat fan nozzles. Penetration into the canopy a standard single fan nozzle has advantages.



Picture 1: Nozzle comparison in winter wheat, BBCH 37. Deposit of ID 120-05 compared to IDTA 120-05 C in upper third, middle third and lower third.

Target oriented application – better coverage on vertical targets by asymmetrical spray pattern at higher forward speeds



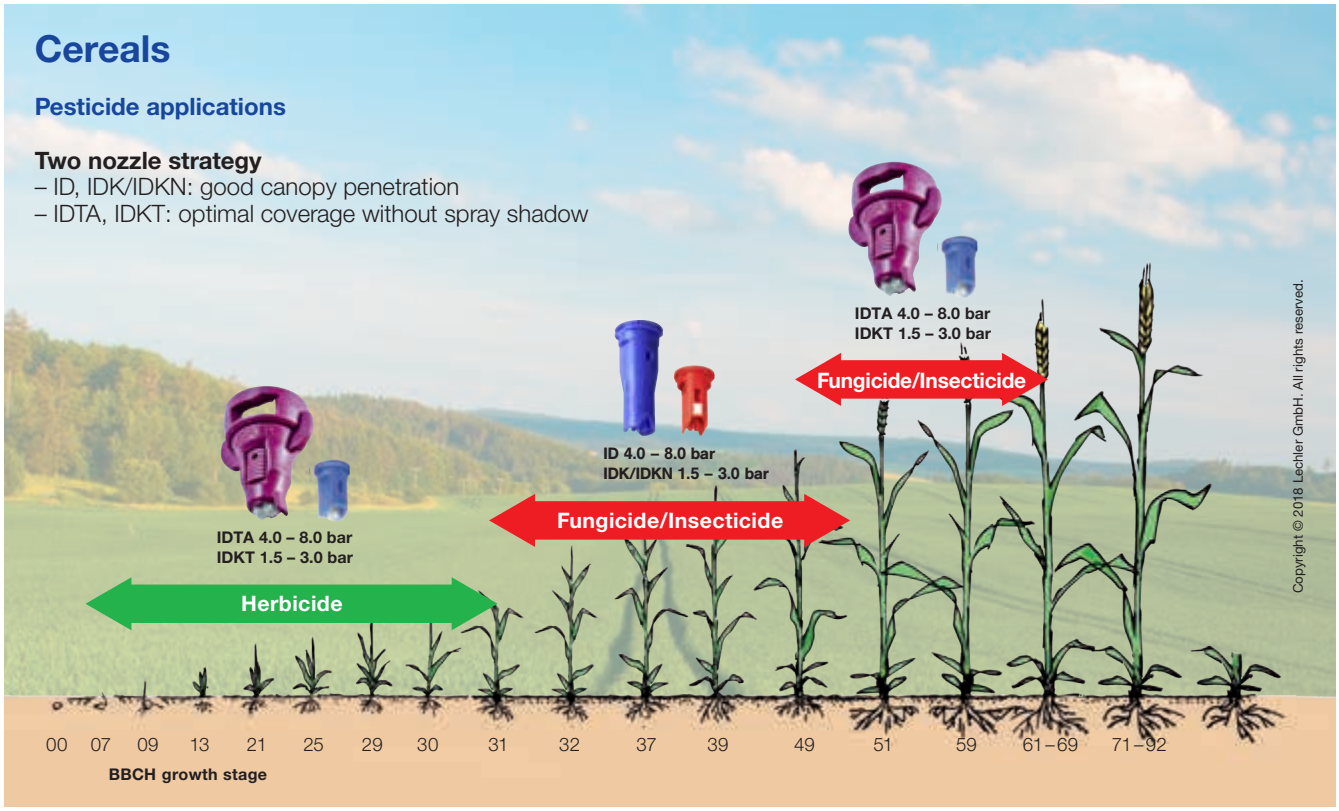
Source: Research Institute of Horticulture Department of Agroengineering Skierniewice, Poland

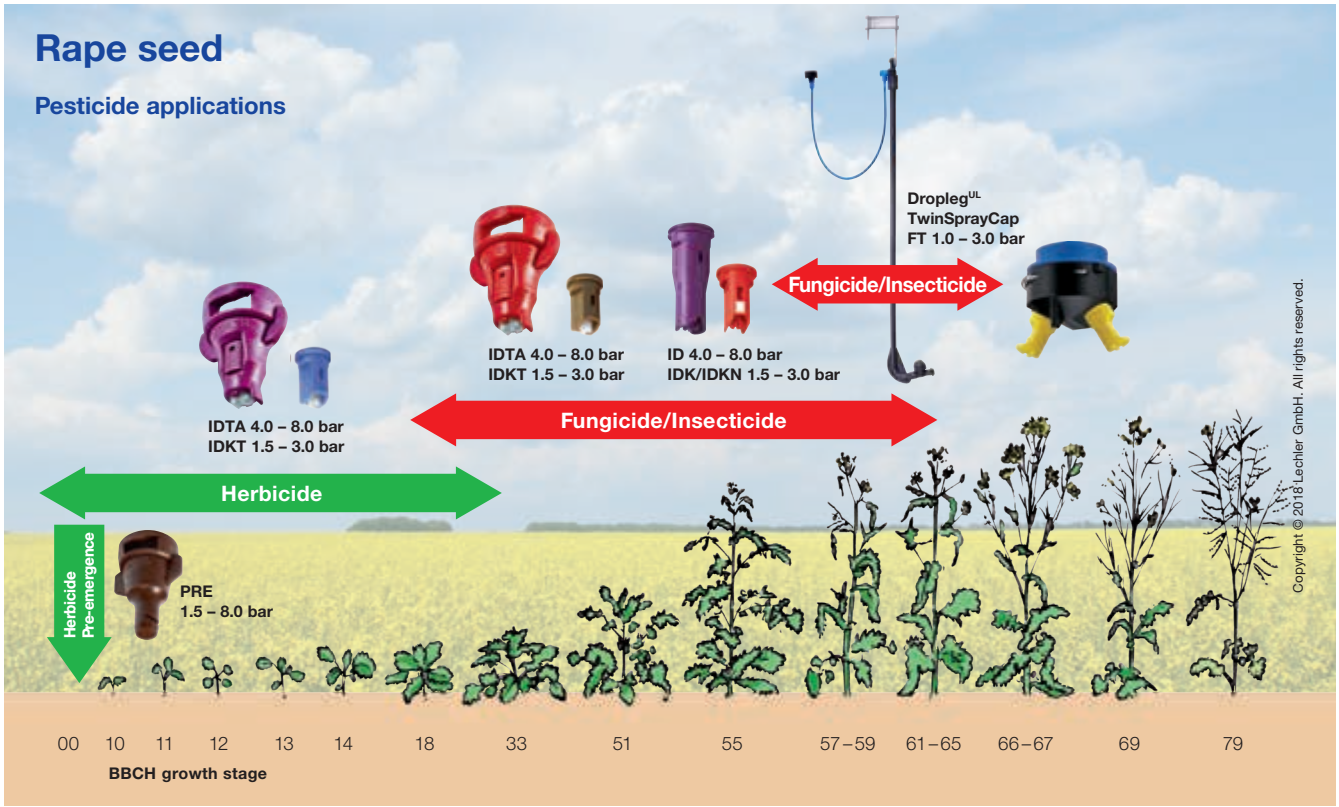
Picture 2: Coverage on ear in winter wheat BBCH 55 with different nozzle types at different forward speed and application rates.

At 8 km/h the IDKT has a balanced coverage of the ear front and back thanks to the symmetrical pattern.

At 12 km/h and higher speed the asymmetrical pattern of the IDTA give the more uniform coverage.

NOZZLE RECOMMENDATION FOR PESTICIDE APPLICATION

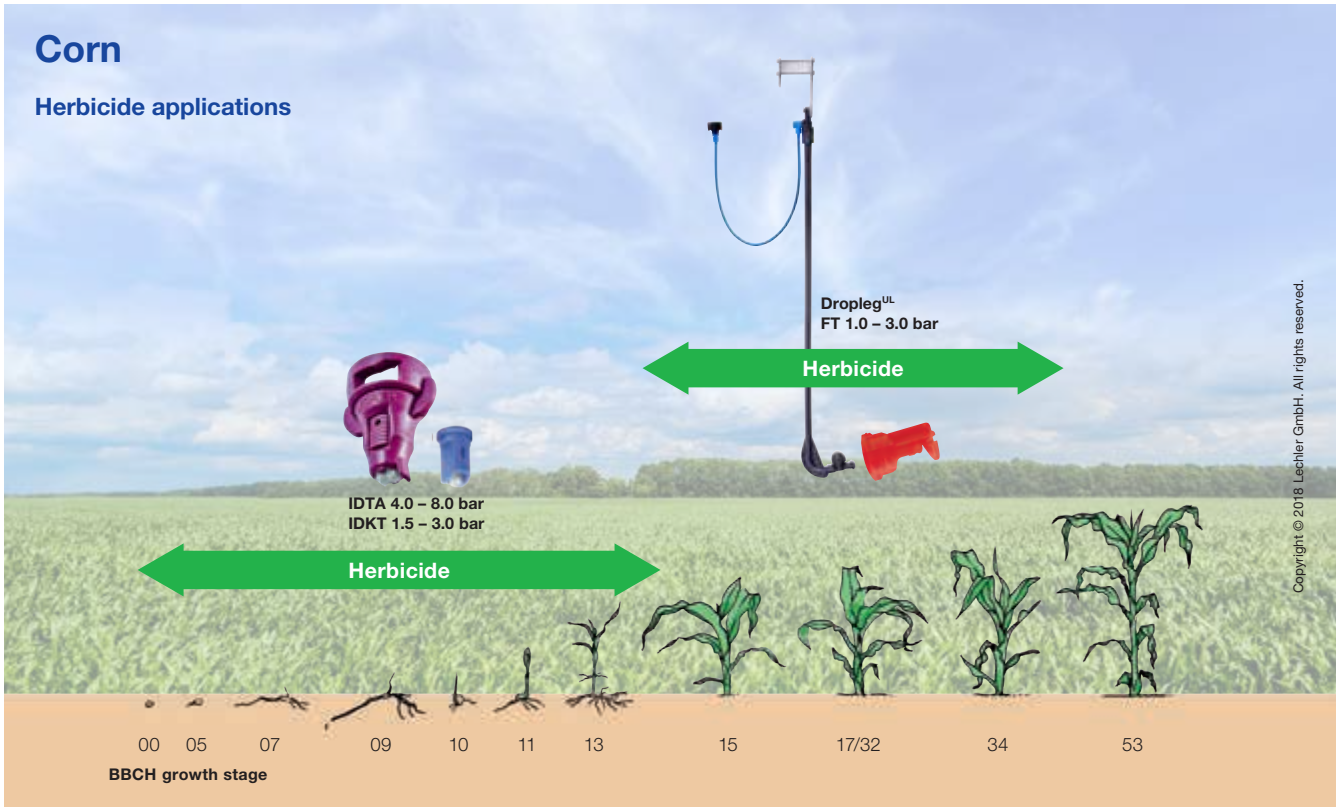




More recommendation:

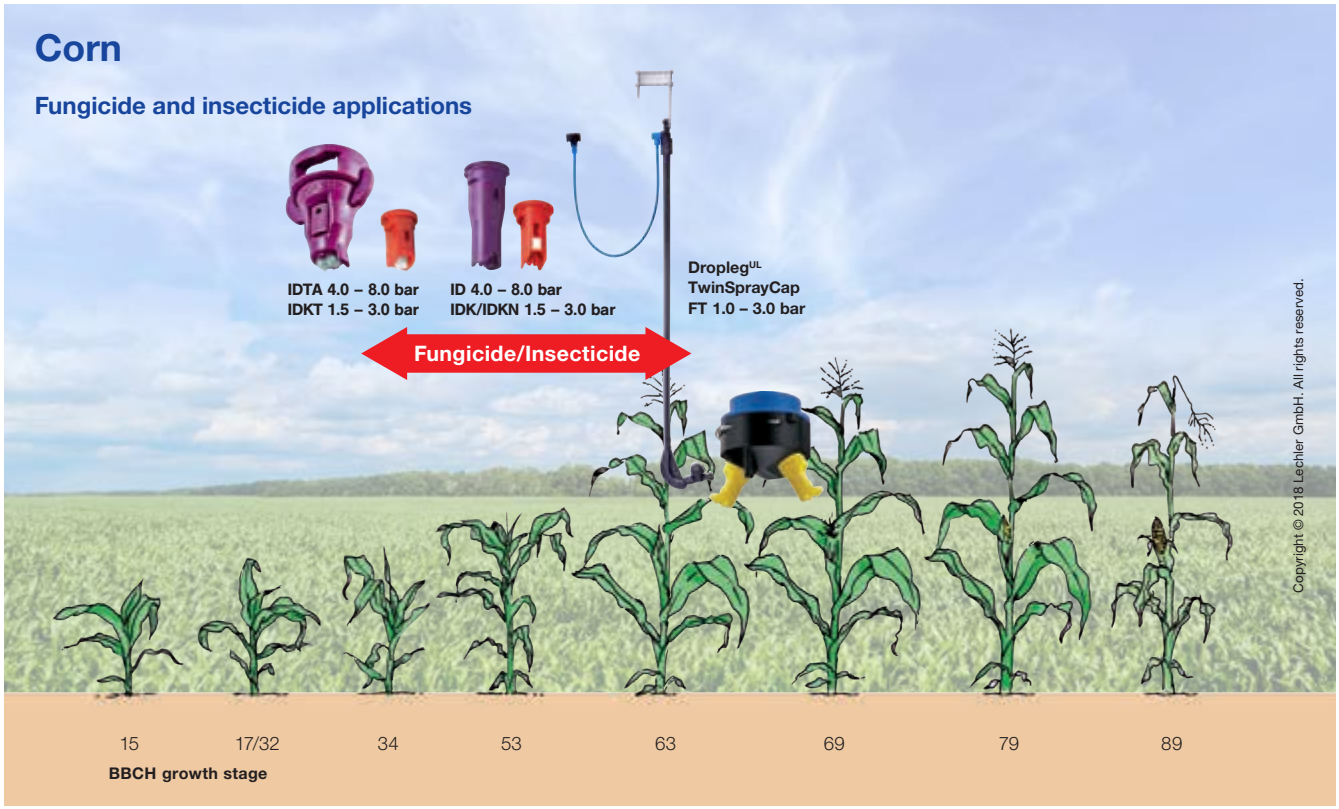
Corn

Herbicide applications

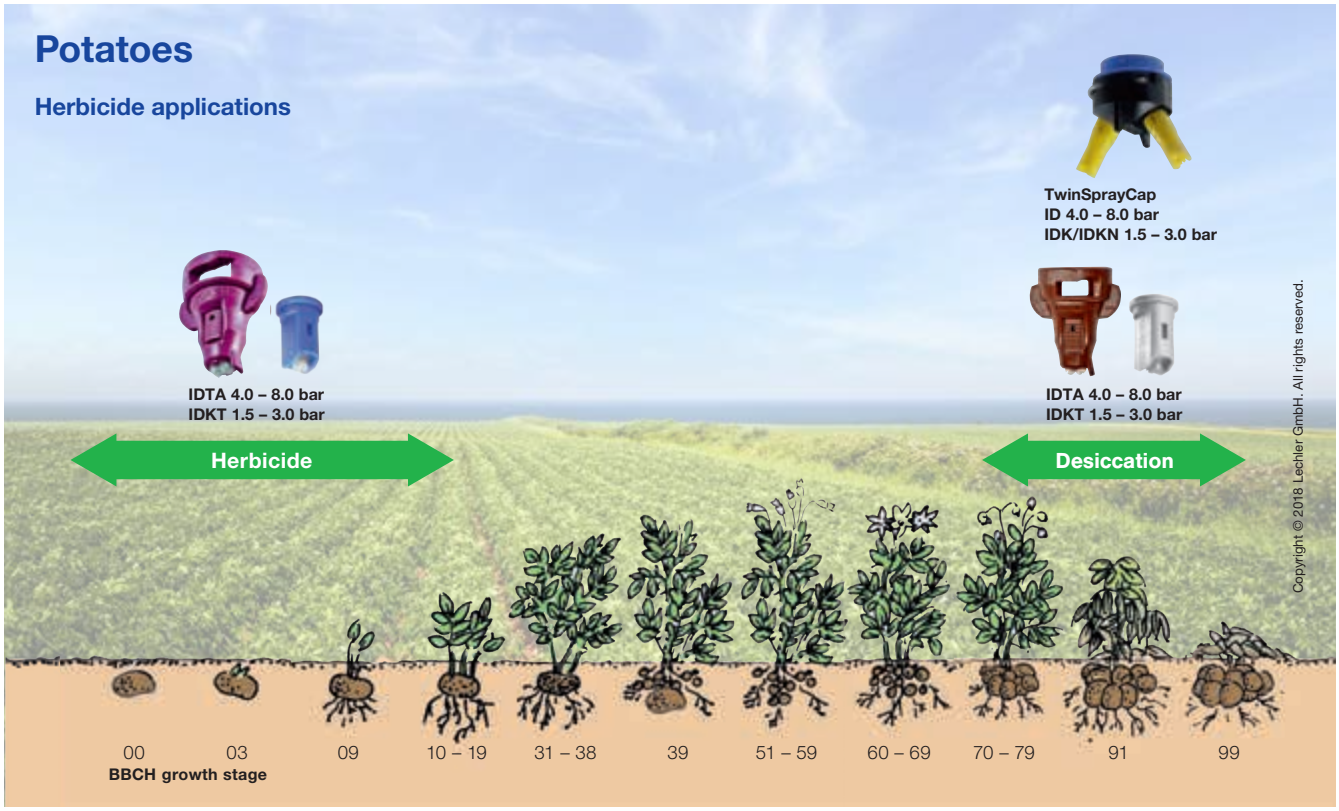


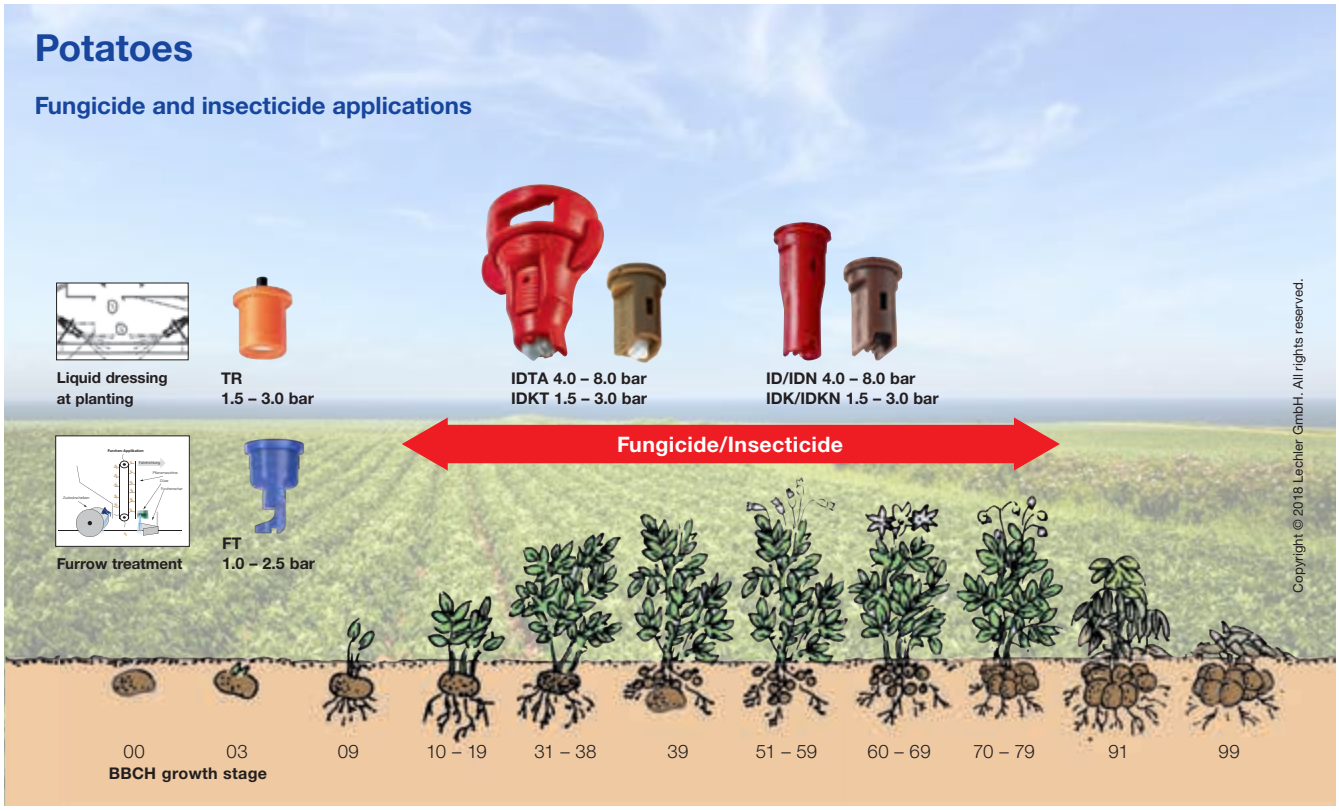
Corn

Fungicide and insecticide applications

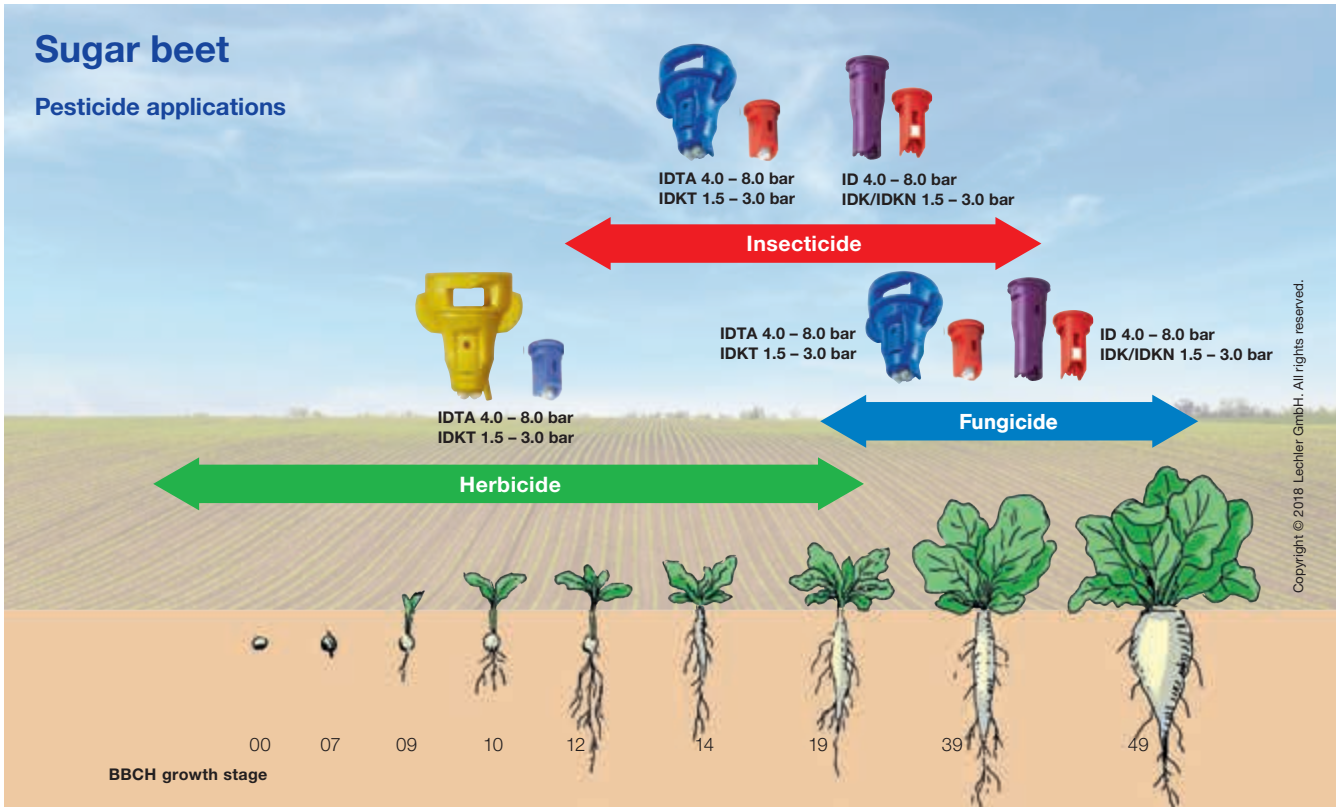


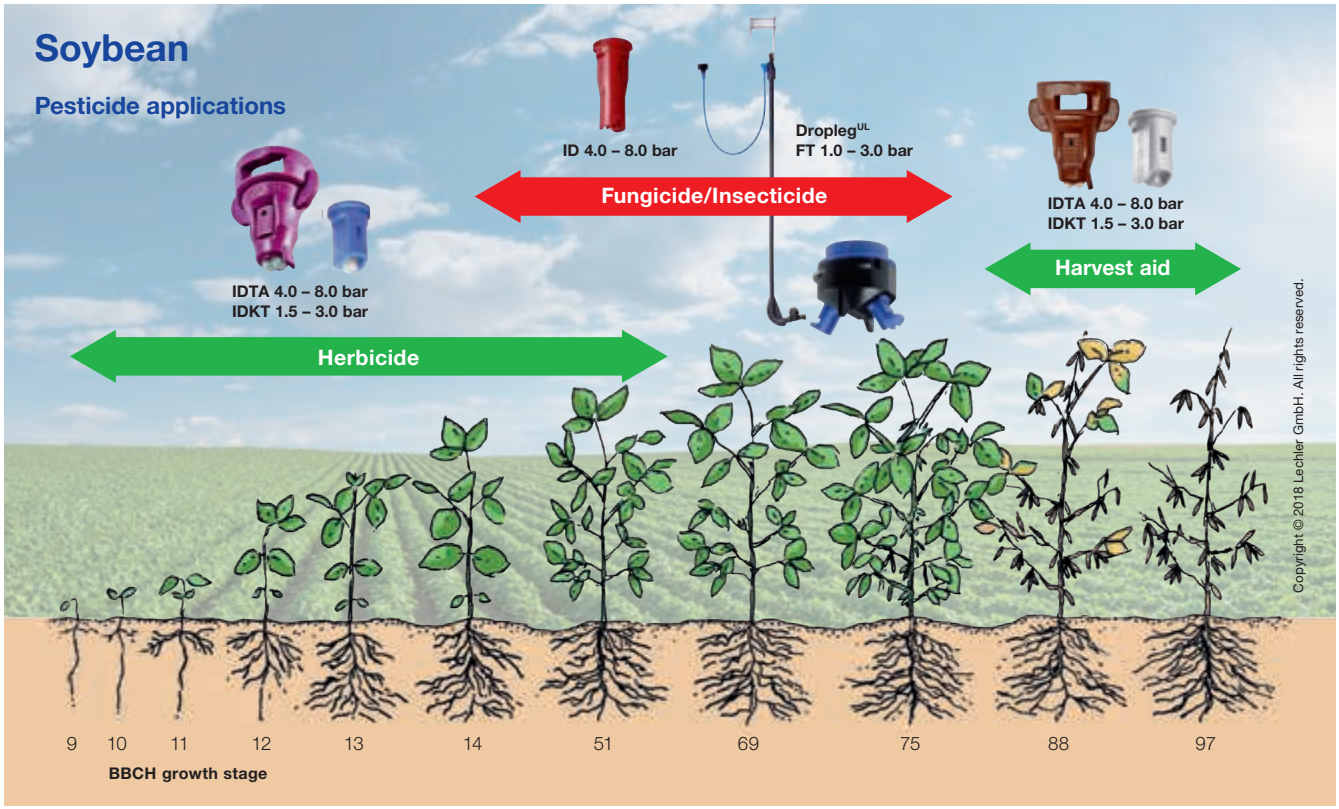
NOZZLE RECOMMENDATION FOR PESTICIDE APPLICATION





More recommendation:





LECHLER NOZZLES FOR THE CROP PRODUCTION

	ID3	IDK/ IDKN	IDTA	IDKT	PRE	AD	QS 80	LU	ST/SC	DF
										
Spray geometry										
Drift reduction	+ +	+	+ +	+	+ + +	o	o / –	o / –	–	– –

Broadcast spraying

Recommended pressure range (bar)		2/3*–**4–8**	1**–/**1.5–3**–6	1–**4–8**	1***–/**1.5–3**–6	**1.5–8**	**1.5–3**–6	**1.5–5**	**1.5–2.5**–5	**2–3**–5	**2–3**–5
Herbicides	Soil incorporated	●●	●●	●●	●●	●●	●●	●●	●●	●	-
	Pre-emerge	●●	●●	●●	●●	●●	●●	●●	●●	●	-
	Post-emerge (systemic)	●●	●●	●●	●●	-	●●	●●	●●	●	○
	Post-emerge (contact)	●	●	●●	●●	-	●	●●	●●	●	●●
Fungicides	Contact	●	●	●●	●●	-	●	●●	●●	●	●●
	Systemic	●●	●●	●●	●●	-	●●	●●	●●	●	●
Insecticides	Contact	●	●	●●	●●	-	●	●●	●●	●	●●
	Systemic	●●	●●	●●	●●	-	●●	●●	●●	●	●
Liquid fertilizer		●● (2–4)	●● (1**/1.5–2.5)	○ (1–4)	○ (1***/1.5–2.5)	●● (1.5–4)	● (1.5–2.5)	○ (1.5–2)	○ (1.5–2)	○ (2)	-
Growth regulators		●●	●●	○	○	-	●●	●	●	●	○
Irrigation (via boom)		●●	●●	●●	●●	●●	●●	●	●	●	-

Banding/row spraying – arable crops and speciality crops

Recommended pressure range (bar)		-	-	-	-	-	-	-	-	-	-
Herbicides	Soil incorporated	-	-	-	-	-	-	-	-	-	-
	Pre-emerge	-	-	-	-	-	-	-	-	-	-
	Post-emerge (systemic)	-	-	-	-	-	-	-	-	-	-
	Post-emerge (contact)	-	-	-	-	-	-	-	-	-	-
Fungicides	Contact	-	-	-	-	-	-	-	-	-	-
	Systemic	-	-	-	-	-	-	-	-	-	-
Insecticides	Contact	-	-	-	-	-	-	-	-	-	-
	Systemic	-	-	-	-	-	-	-	-	-	-
Liquid fertilizer		-	-	-	-	-	-	-	-	-	-
Growth regulators		-	-	-	-	-	-	-	-	-	-
Irrigation (via boom)		-	-	-	-	-	-	-	-	-	-

Heed label of chemical company.

FT 90 (FT 140)	TR 80	ITR 80	FD	FL	FS	IS 80	IDKS 80	BN	OC	E	ID 90	IDK 90	AD 90
													
													
+ (–)	– –	+ +	+ + +	+ + +	+ + +	+ +	+	–	–	–	+ +	+	o

1–3–6 (1–2–3)	3–8	3–5–10	1.5–4	1–5	1–3****/4	2–4–8	1*****/1.5–3–6	-	1.5–2.5–5	-	3–8	1.5–8	1.5–3–6
●●	○	●●	-	-	-	●●	●●	-	●●	-	●●	●●	●●
●●	○	○	-	-	-	●●	●●	-	●●	-	●●	●●	●●
●	○	○	-	-	-	●●	●●	-	●●	-	●●	●●	●●
●	●●	-	-	-	-	●	●	-	●●	-	●	●	●
●	●●	○	-	-	-	●	●	-	●●	-	●	●	●
●	●	●	-	-	-	●●	●●	-	●●	-	●●	●●	●●
●	●●	○	-	-	-	●	●	-	●●	-	●	●	●
●	●	●	-	-	-	●●	●●	-	●●	-	●●	●●	●●
● (1–2)	-	●● (3–5)	●●	●●	●●	●● (2–4)	●● (1****/1.5–2.5)	-	○ (1.5–2)	-	●● (2–4)	●● (1.5–2.5)	● (1.5–2.5)
●	○	○	-	-	-	●●	●●	-	●	-	●●	●●	●●
-	-	●	●●	●	●	●●	●●	-	●	-	●●	●●	●●

-	3–8	-	-	-		2–4–8	1*****/1.5–3–6	1–2–4–6	1.5–2.5–5	1–3–4	-	-	-
-	○	-	-	-		●●	●●	●●	●●	●●	-	-	-
-	○	-	-	-		●●	●●	●●	●●	●●	-	-	-
-	○	-	-	-		●●	●●	●●	●●	●●	-	-	-
-	●●	-	-	-		●	●	●●	●●	●●	-	-	-
-	●●	-	-	-		●	●	●●	●●	●●	-	-	-
-	●	-	-	-		●●	●●	●●	●●	●●	-	-	-
-	●●	-	-	-		●	●	●●	●●	●●	-	-	-
-	●	-	-	-		●●	●●	●●	●●	●●	-	-	-
-	-	-	-	-		●● (2–4)	●● (1****/1.5–2.5)	○ (1–2)	○ (1.5–2)	○ (1–2)	-	-	-
-	○	-	-	-		●●	●●	●●	●●	●	-	-	-
-	-	-	-	-		●●	●●	●●	●	●	-	-	-

Nozzle sizes: * ID3-01/-015 ** IDK-04/-05/-06/-08/-10 IDKN-03/-04 *** IDKT-03/-04/-05/-06 **** FS-10/-15 ***** IDKS-03/-04/-05/-06

– – = not drift reducing – = less drift reducing o = drift reducing + = very drift reducing + + = extremely drift reducing + + + = most drift reducing

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

Air-Injector flat spray nozzles ID3

ID3

Drift reduction: 90/75/50 %

Current list under **www.lechler-agri.com/drift-reduction**

JKI-approval for mixed nozzle equipping

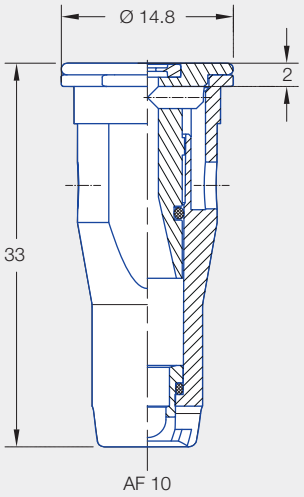
Extremely low-drift, air-injector flat spray nozzle for professional use.

Advantages

- Up to 90 % drift reduction depending on nozzle size, pressure and country
- Long injector design ensures high drift stability over a wide pressure range
- 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 l/ha rate without nozzle changes
- Very good deposition structure and crop penetration

G 1965
G 1966
G 1968
G 1969
G 1970
G 1971
G 1972
G 1973
G 1974
G 2088

ID3 ID3-C



Dimensions in mm.

Nozzle size
01 – 10

Spray angle
120°

Material
POM, ceramic

Pressure range
– ID-01 to -015: 3 – **4 – 8** bar
– ID-02 to -08: 2 – **4 – 8** bar
– UAN: 2 – 4 bar

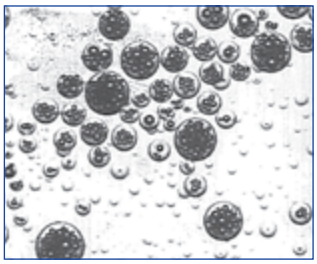
Recommended filters
80 M 01
60 M 02 – 04
25 M 05 – 10

Droplet size
Ultra coarse – medium

Width across flats
10 mm

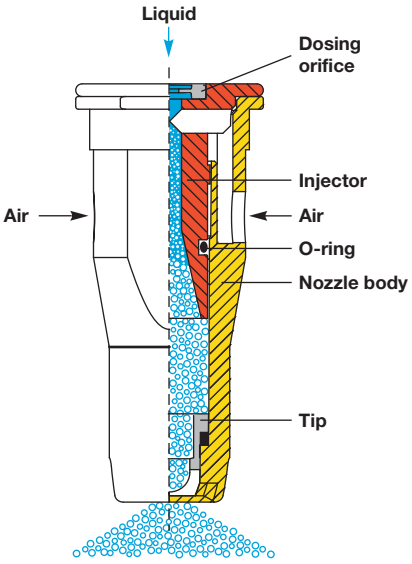
Application areas

- Plant protection products and growth regulators
- Liquid fertilizer
- Border application can be combined with border nozzle IS 80
- Golf course



Aeration effect

Toolless removable injector



Example of ordering

Type	+	spray angle	+	int'l nozzle size	+	material	=	ordering no.
ID3		120°		025		(POM)	=	ID-120-025
ID3		120°		025		C (ceramic)	=	ID-120-025 C

Air-injector flat spray compact nozzles IDK/IDKN

Drift reduction: 90/75/50 %

Current list under **www.lechler-agri.com/drift-reduction**

JKI-approval for mixed nozzle equipping

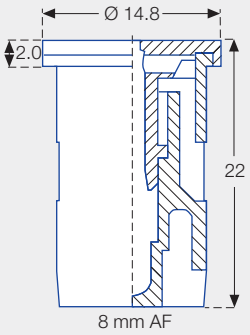
Very low-drift, compact air-injector flat spray nozzle with wide droplet spectrum (from ultra coarse to fine).

Advantages

- Up to 90 % drift reduction depending on nozzle size, pressure and country
- Very low drift and loss-reducing in the pressure range up to 3.0 bar (depending on size)
- Inexpensive alternative to conventional standard nozzles
- Very good deposition structure and crop penetration

G 1661
G 1662
G 1663
G 1683
G 1718
G 1799
G 1800
G 1801
G 1802
G 1936

IDK IDK-C IDKN*



* IDKN-characteristic: body with white stripe.

Dimensions in mm.

Nozzle size
01 – 10

Spray angle
90°, 120°

Material
POM, ceramic

Pressure range
– IDK-01 to -03:
1.5 – 3 – 6 bar
– IDK-04 to -10:
1 – **1.5 – 3** – 6 bar
– UAN
IDK -01 to -03:
1.5 – 2.5 bar
IDK -04 to -10:
1 – 2.5 bar
IDKN: 1 – 2.5 bar

Recommended filters
80 M 01
60 M 015 – 04
25 M 05 – 10

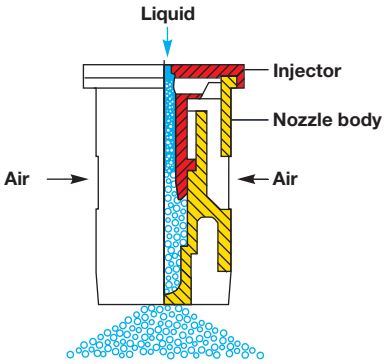
Droplet size
Ultra coarse – medium

Width across flats
8 mm

Application areas

- Plant protection products and growth regulators
- Liquid fertilizer
- Spray frame
- Border application can be combined with border nozzle IDKS 80
- Golf course
- Knapsack sprayer
- Greenhouse

Toolless removable injector



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= ordering no.
IDK	120°	01	(POM)	= IDK 120-01
IDK	120°	01	C (ceramic)	= IDK 120-01 C
MultiCap IDK	120°	01	(POM)	= MultiCap IDK 120-01

Pre-emergence flat spray nozzle PRE

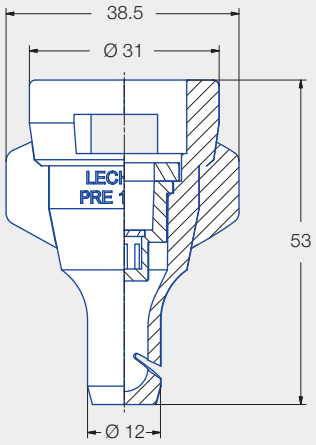
Drift reduction: 95/90/75 %

Current list under
www.lechler-agri.com/drift-reduction

Extremely low-drift flat spray nozzle for timely application of pre-emergence herbicides.

Advantages
- Up to 95 % drift reduction depending on pressure and country
- Flexible adaption to buffer zones
- Wide pressure range from 1.5 – 8 bar
- High workrate through simple adaptation of l/ha rate and driving speed
- Timely application even under adverse weather conditions
- Nozzle in cap with MULTIJET bayonet system (incl. gasket)

G 1981



Dimensions in mm.

Nozzle size
05

Spray angle
130°

Material
POM

Pressure range
1.5 – 8 bar
– UAN: 1.5 – 4 bar

Recommended filters
25 M

Droplet size
Ultra coarse

Application areas

Herbicides pre-emerge

Liquid fertilizer

Golf course

Example of ordering

Type	+	spray angle	+	int'l nozzle size	+	material	=	ordering no.
PRE		130°		05		(POM)	=	PRE 130-05

Anti-drift flat spray nozzles AD

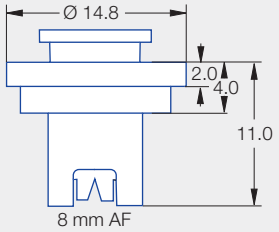
Low-drift flat spray nozzle.

Advantages
- Application with medium to coarse droplet even with low l/ha rates
- Integrated pre-chamber ensures optimized atomization and reduced fine droplet share
- Preatomizer can be removed for cleaning

G 1666
G 1667
G 1668
G 2041
G 2042

AD

AD-C



Dimensions in mm.

Nozzle size
015 – 04

Spray angle
90°, 120°

Material
POM, ceramic

Pressure range
1.5 – 3 – 6 bar

Recommended filters
80 M 01 – 015
60 M 02 – 04

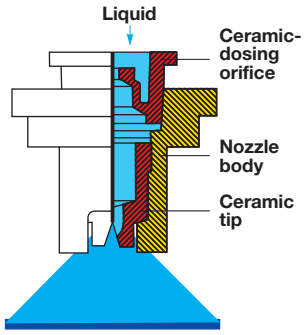
Droplet size
Coarse – fine

Width across flats
8 mm

Application areas

Plant protection products and growth regulators

Removable preatomizer



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= ordering no.
AD	120°	02	(POM)	= AD 120-02
AD	120°	02	C (ceramic)	= AD 120-02 C

Multirange flat spray nozzles LU

Universal flat spray nozzle with finer droplet spectrum.

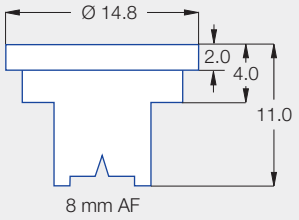
Advantages
- Extended pressure range
- Low drift in the pressure range up to 2.5 bar
- Fine-droplet application
- High manufacturing quality

G 1240
G 1242
G 1524
G 1596

LU

LU-C

LU-S



Dimensions in mm.

Nozzle size
01 – 08

Spray angle
90°, 120°

Material
POM, stainless steel, ceramic

Pressure range
1.5 – 2.5 – 5 bar

Recommended filters
80 M 01 – 015
60 M 02 – 04
25 M 05 – 08

Droplet size
Coarse – very fine

Width across flats
8 mm

Application areas

Plant protection products and growth regulators

Border application can be combined with border nozzle OC

Knapsack sprayer

Greenhouse

Example of ordering

Type	+	spray angle	+	int'l nozzle size	+	material	=	ordering no.
LU		120°		02		(POM)	=	LU 120-02
LU		120°		015		C (ceramic)	=	LU 120-015 C
LU		120°		03		S (stainless steel)	=	LU 120-03 S

Even flat spray nozzles E

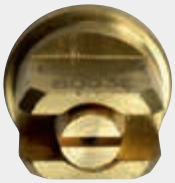
Drift reduction: 90 %

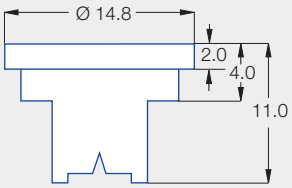
Current list under
www.lechler-agri.com/drift-reduction

Flat spray nozzle with rectangular liquid distribution for band and row spraying.

Advantages
- Only even flat spray nozzle with 90 % drift reduction approved by JKI (depending on nozzle size, pressure and country)
- Fully formed spray angle from 1 bar
- Uniform active ingredient distribution over the entire bandwidth
- Extremely small spraying distances possible

G 1435
G 1436
G 1437
G 1438





Dimensions in mm.

Nozzle size
01 – 08

Spray angle
80°

Material
Brass, POM

Pressure range
1 – 3 – 4 bar

Recommended filters
80 M 01 – 015
60 M 02 – 04
25 M 05 – 08

Droplet size
Very coarse – very fine

Width across flats
8 mm

Application areas

Band spraying

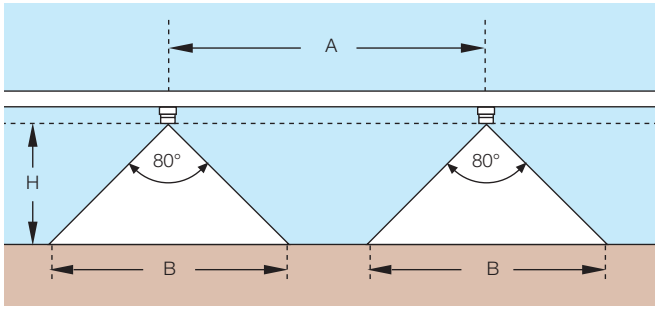
Knapsack sprayer

Application-rate reduction

Depending on the band width and row width, the amount of spraying liquid for band spraying amounts to 10–50 % of the amount of liquid for full surface treatment.

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 cm	Band width B cm	Application rate* (in %), for a row spacing A 50 cm	75 cm	100 cm
7	10	20	13	10
10	15	30	20	15
13	20	40	27	20
16	25	50	33	25

* Percentages in comparison with full-area treatment.

Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= ordering no.
E	80°	02	Brass	= 8002 E brass
E	80°	02	(POM)	= 8002 E

Asymmetrical twin flat spray air-injector nozzles IDTA

IDTA
Twin Asymmetric Full Coverage

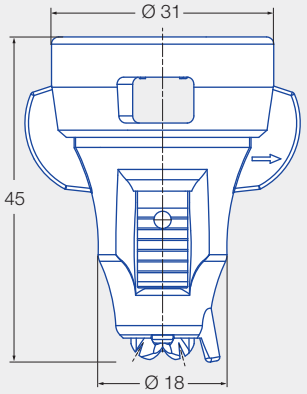
Patented

Extremely low-drift, air-aspirating air injector twin flat spray nozzle for optimized deposition and reduced spray shadow at higher driving speeds.

Advantages

- High drift reduction over entire pressure range
- Nozzle in cap with MULTIJET bayonet system (incl. gasket)
- 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
- Optimum user protection thanks to removal/installation of the injector with protective gloves without tools (Patent)
- JKI approval for mixed equipment with ID3 nozzles with the same nozzle size in the boom center section

G 2015
G 2016
G 2017
G 2018
G 2019
G 2020
G 2021
G 2022
G 2043



Dimensions in mm.

Nozzle size
02 – 08

Spray angle
Front 120°/
back 90°

Material
Ceramic

Pressure range
1 – **4 – 8** bar

Recommended filters
80 M 02
60 M 025 – 08

Droplet size
Ultra coarse – coarse

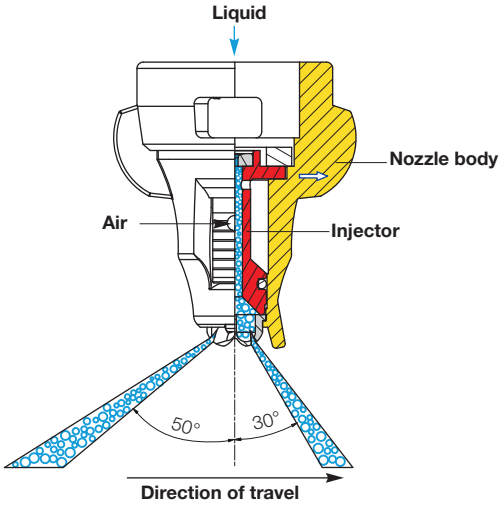
Application areas

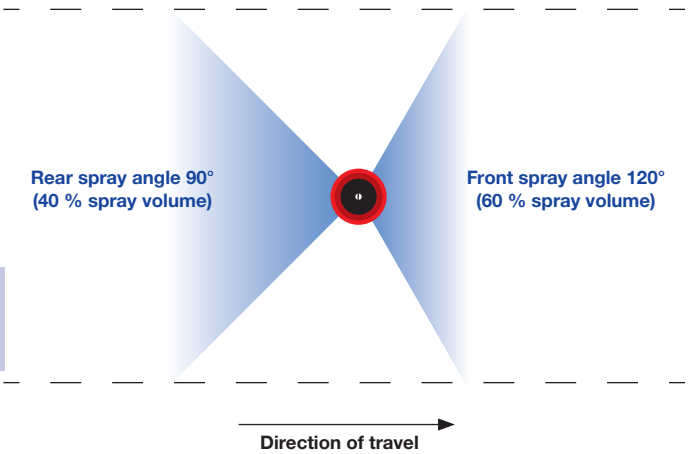
Plant protection products and growth regulators

Border application can be combined with border nozzle IS 80

Golf course

Toolless removable injector





Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= ordering no.
IDTA	120°	025	C (ceramic)	= IDTA 120-025 C

Symmetrical TWIN flat spray air-injector compact nozzles IDKT

Drift reduction: 90/75/50 %

Current list under **www.lechler-agri.com/drift-reduction**

Each also in association with IDKS-border nozzles identical size.

JKI-approval for mixed nozzle equipping

Very low-drift, air-injector twin flat spray nozzle for optimized deposition and reduced spray shadow.

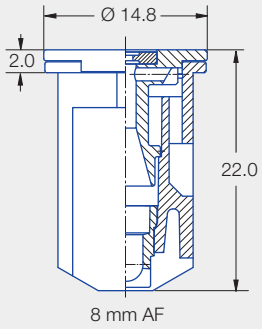
Advantages

- Up to 90 % drift reduction depending on nozzle size, pressure and country
- Compact design
- Optimum deposition on foliage and vertical target surfaces thanks to symmetrical twin flat spray jet 30°/30°
- Reduced spray shadow
- Drift reducing up to 3 bar (depending on nozzle size)
- JKI approval for mixed equipment with IDK/IDKN nozzles with the same nozzle sized in the boom center section

G 1836
G 1837
G 1865
G 1882
G 1883
G 1884
G 1911
G 1912
G 1932
G 1933
G 1934
G 1935
G 1937

IDKT-C

IDKT



Dimensions in mm.

Nozzle size
015 – 06

Spray angle
120°

Material
POM, ceramic

Pressure range
– IDKT 015 to 025:
1.5 – 3 – 6 bar
– IDKT 03 to 06:
1 – **1.5 – 3** – 6 bar

Recommended filters
80 M 015 – 02
60 M 025 – 06

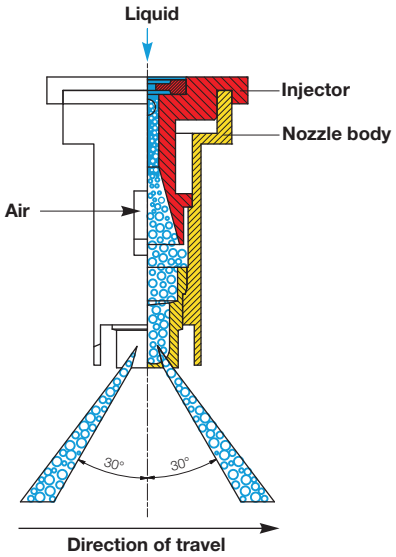
Droplet size
Ultra coarse – medium

Width across flats
8 mm

Application areas

- Plant protection products
- Spray frame
- Border application can be combined with border nozzle IDKS 80
- Golf course
- Greenhouse

Toolless removable injector



Example of ordering

Type	+ spray angle	+ int'l nozzle size	+ material	= ordering no.
IDKT	120°	04	(POM)	= IDKT 120-04
IDKT	120°	04	C (ceramic)	= IDKT 120-04 C
MultiCap IDKT	120°	04	(POM)	= MultiCap IDKT 120-04

Air-injector off center nozzles IS 80

Drift reduction: 90/75/50 %

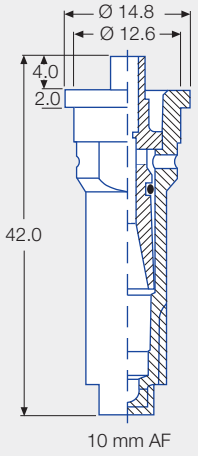
Current list under **www.lechler-agri.com/drift-reduction**

Extremely low-drift, air-injector off center nozzle for border application and banding.

Advantages

- Same JKI drift reduction class in combination with ID3 nozzles in the field spray boom
- Volume flow adapted for optimum cross distribution in combination with ID3-/IDTA-nozzles of the same size
- Asymmetrical spray pattern (20°/60° to vertical axis)
- Precise edge application along water courses and field boundaries
- Optimum protection of neighboring crops (field edge application or row/special cultures (herbicide banding/ underleaf spraying)

G 1682
G 1753
G 1754
G 1755
G 1999
G 2000
G 2087



Dimensions in mm.

Nozzle size
02 – 06

Spray angle
80°

Material
POM

Pressure range
– Sprayer/broadcast spraying:
2 – **4 – 8** bar
– Vertical sprayer boom:
2 – **8 – 15** bar

Recommended filters
60 M 02 – 04
25 M 05 – 06

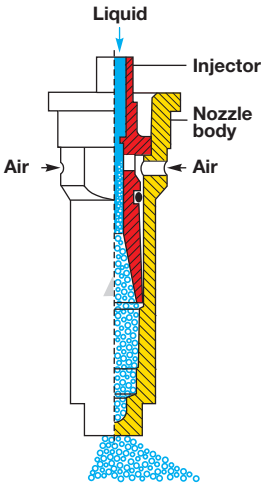
Droplet size
Ultra coarse – medium

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	=	ordering no.
IS		80°		02		(POM)	=	IS 80-02

Air-injector off center compact nozzles IDKS 80

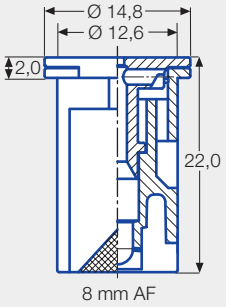
Drift reduction: 90/75/50 %

Current list under
www.lechler-agri.com/drift-reduction

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

Advantages
- Same JKI drift reduction class in combination with IDK-/IDKN-/IDKT-nozzles in the field spray boom
- Volume flow adapted for optimum cross distribution in combination with IDK-/IDKN-/IDKT-nozzles of the same size
- Asymmetrical spray pattern (20°/60° to axis)
- Precise edge application along water courses and field boundaries
- Optimum protection of neighboring crops (field edge application) or row/special cultures (herbicide banding/underleaf spraying)

G 1786
G 1787
G 1788
G 1789
G 1998



Dimensions in mm.

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

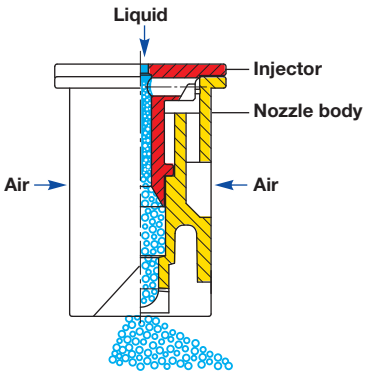
Recommended filters
60 M 015 – 04
25 M 05 – 06

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

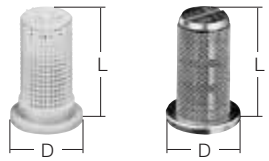
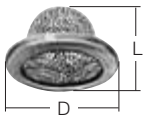
Toolless removable injector



Example of ordering

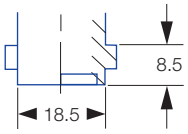
Type	+	spray angle	+	int'l nozzle size	+	material	=	ordering no.
IDKS		80°		02		(POM)	=	IDKS 80-02

Ball check valves
Nozzle Strainers

Ball check valves, nozzle strainers	Opening pressure	Mesh size	L [mm]	D [mm]	Material	Filter area (without gasket)	Ordering no.
Ball check valves* 	0.5 bar	25 M ■ red	21.5	14.8	POM	628 mm²	065.266.56.00
	0.5 bar	60 M ■ blue	21.5	14.8	POM	628 mm²	065.265.56.00
	0.5 bar	25 M	21	14.8	Brass	430 mm²	065.261.30.00
	0.5 bar	60 M	21	14.8	Brass	430 mm²	065.260.30.00
	2.5 bar	25 M ■ red	21.5	14.8	POM	628 mm²	065.266.56.02
	2.5 bar	60 M ■ blue	21.5	14.8	POM	628 mm²	065.265.56.02
Ball check valve (excl. strainers) 	0.5 bar	-	18.5	14.8	POM	–	065.266.56.01
Nozzle strainer* 	-	25 M ■ red	21.5	14.8	POM	628 mm²	065.256.56.00
	-	60 M ■ blue	21.5	14.8	POM	628 mm²	065.257.56.00
	-	80 M ■ yellow	21.5	14.8	POM	430 mm²	A.424.310.5
Slotted strainer 	-	25 M ■ red	21.0	14.8	POM	430 mm²	095.009.56.13.43
Cup strainer 	-	25 M	8.5	14.8	Cu/Monel	184 mm²	065.252.26.00
	-	25 M ■ red	8.5	14.8	PA, Monel	184 mm²	200.029.26.00.03
	-	60 M ■ blue	8.5	14.8	PA, stainless steel	184 mm²	200.029.1C.01.03
Nozzle strainer with integrated seal for TWISTLOC 	-	25 M ■ red	19.2	18.0	POM, Santoprene	628 mm²	065.269.7J
	-	60 M ■ blue	19.2	18.0	POM, Santoprene	628 mm²	065.268.7J
Nozzle strainer with integrated seal for MULTIJET 	-	60 M ■ blue	19.2	18.8	POM, Santoprene	628 mm²	065.268.7J.10

* Please note: If applicable we deliver the strainers and ball check valves in the color coding according to ISO 19732:2007.

Bayonet caps for »MULTIJET« and non-Lechler origin Intermediate and extension adaptor

MULTIJET	Description		Color code	Ordering no.
  Labeling on request.	**Bayonet cap** incl. gasket Y.G00.002.02.0 for combination with System MULTIJET, for example:   Dimensions in mm.	**Combi cap** for nozzles with 8 and 10 mm AF ID3, IDK, IDKN, IDKT, AD, QS, LU, ST, DF, IS, IDKS, OC, E, FL, FS	red	Y.825.3C0.00.00.00.0
			blue	Y.825.3C0.00.30.00.0
			yellow	Y.825.3C0.00.10.00.0
			lavender	Y.825.3C0.00.80.00.0
			green	Y.825.3C0.00.20.00.0
			brown	Y.825.3C0.00.70.00.0
			black	Y.825.3C0.00.40.00.0
			grey	Y.825.3C0.00.90.00.0
			white	Y.825.3C0.00.50.00.0
		Fibre-glass reinforced for nozzles with		
		AF 8	black	A.402.900.01.A
		AF 10	black	A.402.902.01.A
		for hollow cone nozzles TR, ITR, FT, BN hose shanks	black	A.402.904.10
		for flood nozzles FT	blue	A.402.908.4
		Bayonet cap 1/4" NPT	black	A.402.910.01
		female		
		Shut off cap	black	A.402.909

Non-Lechler origin	Description		Color code	Ordering no.
Bayonet cap Type H 	System: **– Hardi** incl. gasket (8 and 10 mm AF: 095.015.73.06.36)	**Combi cap** for nozzles with 8 and 10 mm AF ID3, IDK, IDKN, IDKT, AD, QS, LU, ST, DF, IS, IDKS, OC, E, FL, FS	black	090.078.56.00.40.1
	Gasket with special shape (in combination with nozzle strainer 065.256.56 or 065.257.56)			095.015.7J.04.34
Bayonet cap Type R 	System: **– Rau** incl. gasket (095.015.73.04.61) since 2000 see Bayonet cap MULTIJET above	for nozzles with 8 mm AF IDK, IDKN, IDKT, AD, QS, LU, ST, IDKS, OC, E	red	095.016.56.05.90
		for nozzles with 10 mm AF ID3, DF, IS, FL, FS	lavender	095.016.56.05.97

Intermediate and extension adaptor

Intermediate adaptor*
System Lechler TWISTLOC
(092.163.56.00.22.1)
Extension: 22 mm

Intermediate adaptor*
System Rau
(092.163.56.00.21.0)
Extension: 43 mm

Intermediate adaptor*
System Hardi
(092.163.56.00.20.1)
Extension: 17 mm

Extension adaptor*
System MULTIJET
(092.163.56.00.23.1)
Extension: 32 mm

*Incl. gasket.

Farmer’s helpers
Anemometer

Pocketwind IV

Features
- Backlit display
- Waterproof and shockproof housing
- Lanyard
- Integrated hard cover for protection against damage and dirt
- Tripod thread

Advantages
- Self-calibrating humidity sensor
- Hard cover protects the measuring sensors against damage
- Measures all decision-relevant application parameters

Measuring functions
- Air humidity
  - Relative humidity
  - Dew point
  - ΔT
  - Wet bulb thermometer
- Wind speed
  - Maximum
  - Average
  - Units m/s, km/h, fpm, mph, kn and bft, switchable
- Temperature/wind chill units °C and °F, switchable
- Wind direction
  - Digital compass
  - Integrated wind vane

Ordering no.: Z.WIN.DME.SS.ER.010

Farmer’s helpers

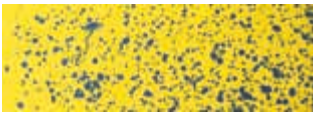
Accessories

Droplet-size/dosage calculator
Order no. 095.009.50.12.11.4

Apple Android

Online nozzle calculator

Cleaning brush
Order no. 095.009.50.10.89.0

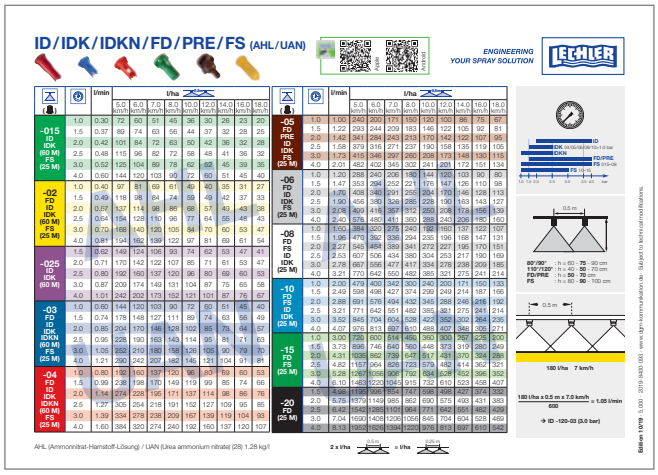


Water sensitive paper
Size: 76 x 26 mm
Order no. Z.WSP.76X.26.00.00.0

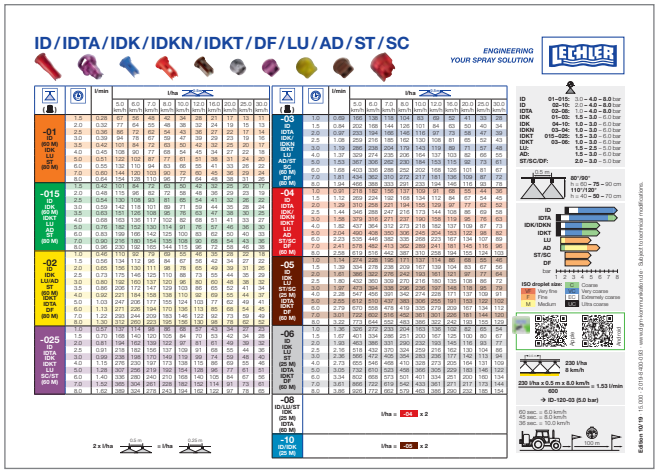
Nozzle assembly wrench
Order no. 092.164.40.00.99.0

Nozzle aligner
Order no. 065.231.02

Spray tables (sticker)



UAN (A4)



Arable crops (A4)

Spray table

	bar	l/min	l/ha (0.5m) 5.0 km/h	6.0 km/h	7.0 km/h	8.0 km/h	10.0 km/h	12.0 km/h	16.0 km/h	20.0 km/h	25.0 km/h	30.0 km/h
-01 ID (60 M) IDK LU ST (80 M)	1.5	0.28	67	56	48	42	34	28	21	17	13	11
	2.0	0.32	77	64	55	48	38	32	24	19	15	13
	2.5	0.36	86	72	62	54	43	36	27	22	17	14
	3.0	0.39	94	78	67	59	47	39	29	23	19	16
	3.5	0.42	101	84	72	63	50	42	32	25	20	17
	4.0	0.45	108	90	77	68	54	45	34	27	22	18
	4.5	0.48	115	96	82	72	58	48	36	29	23	19
	5.0	0.51	122	102	87	77	61	51	38	31	24	20
	6.0	0.55	132	110	94	83	66	55	41	33	26	22
	7.0	0.60	144	120	103	90	72	60	45	36	29	24
	8.0	0.64	154	128	110	96	77	64	48	38	31	26
-015 ID IDK (60 M) IDKT LU AD ST (80 M)	1.5	0.42	101	84	72	63	50	42	32	25	20	17
	2.0	0.48	115	96	82	72	58	48	36	29	23	19
	2.5	0.54	130	108	93	81	65	54	41	32	26	22
	3.0	0.59	142	118	101	89	71	59	44	35	28	24
	3.5	0.63	151	126	108	95	76	63	47	38	30	25
	4.0	0.68	163	136	117	102	82	68	51	41	33	27
	4.5	0.72	173	144	123	108	86	72	54	43	35	29
	5.0	0.76	182	152	130	114	91	76	57	46	36	30
	6.0	0.83	199	166	142	125	100	83	62	50	40	33
	7.0	0.90	216	180	154	135	108	90	68	54	43	36
	8.0	0.96	230	192	165	144	115	96	72	58	46	38
-02 ID IDK LU/AD ST (60 M) IDKT IDTA DF (80 M)	1.0	0.46	110	92	79	69	55	46	35	28	22	18
	1.5	0.56	134	112	96	84	67	56	42	34	27	22
	2.0	0.65	156	130	111	98	78	65	49	39	31	26
	2.5	0.73	175	146	125	110	88	73	55	44	35	29
	3.0	0.80	192	160	137	120	96	80	60	48	38	32
	3.5	0.86	206	172	147	129	103	86	65	52	41	34
	4.0	0.92	221	184	158	138	110	92	69	55	44	37
	4.5	0.98	235	196	168	147	118	98	74	59	47	39
	5.0	1.03	247	206	177	155	124	103	77	62	49	41
	6.0	1.13	271	226	194	170	136	113	85	68	54	45
	7.0	1.22	293	244	209	183	146	122	92	73	59	49
	8.0	1.30	312	260	223	195	156	130	98	78	62	52
-025 ID IDTA IDK IDKT LU ST/SC (60 M)	1.0	0.57	137	114	98	86	68	57	43	34	27	23
	1.5	0.70	168	140	120	105	84	70	53	42	34	28
	2.0	0.81	194	162	139	122	97	81	61	49	39	32
	2.5	0.91	218	182	156	137	109	91	68	55	44	36
	3.0	0.99	238	198	170	149	119	99	74	59	48	40
	3.5	1.07	257	214	183	161	128	107	80	64	51	43
	4.0	1.15	276	230	197	173	138	115	86	69	55	46
	4.5	1.22	293	244	209	183	146	122	92	73	59	49
	5.0	1.28	307	256	219	192	154	128	96	77	61	51
	6.0	1.40	336	280	240	210	168	140	105	84	67	56
	7.0	1.52	365	304	261	228	182	152	114	91	73	61
	8.0	1.62	389	324	278	243	194	162	122	97	78	65

	bar
-03 ID IDTA IDK/IDKN IDKT LU AD/ST SC (60 M) DF (80 M)	1.0
	1.5
	2.0
	2.5
	3.0
	3.5
	4.0
	4.5
	5.0
	6.0
	7.0
	8.0
-04 ID IDTA IDK/IDKN IDKT LU AD ST/SC DF (60 M)	1.0
	1.5
	2.0
	2.5
	3.0
	3.5
	4.0
	5.0
	6.0
	7.0
	8.0
-05 ID IDK LU ST/SC (25 M) IDTA IDKT DF (60 M)	1.0
	1.5
	2.0
	2.5
	3.0
	3.5
	4.0
	5.0
	6.0
	7.0
	8.0
-06 ID IDK LU ST (25 M) IDTA IDKT DF (60 M)	1.0
	1.5
	2.0
	2.5
	3.0
	3.5
	4.0
	5.0
	6.0
	7.0
	8.0
-08 ID/IDK/LU/ST (25 M) IDTA (60 M)	
-10 ID/IDK (25 M)	

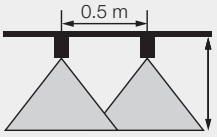
2 x l/ha (0.5 m) **= l/ha** (0.25 m)

l/min	l/ha (0.5m)									
	5.0 km/h	6.0 km/h	7.0 km/h	8.0 km/h	10.0 km/h	12.0 km/h	16.0 km/h	20.0 km/h	25.0 km/h	30.0 km/h
0.69	166	138	118	104	83	69	52	41	33	28
0.84	202	168	144	126	101	84	63	50	40	34
0.97	233	194	166	146	116	97	73	58	47	39
1.08	259	216	185	162	130	108	81	65	52	43
1.19	286	238	204	179	143	119	89	71	57	48
1.28	307	256	219	192	154	128	96	77	61	51
1.37	329	274	235	206	164	137	103	82	66	55
1.46	350	292	250	219	175	146	110	88	70	58
1.53	367	306	262	230	184	153	115	92	73	61
1.68	403	336	288	252	202	168	126	101	81	67
1.81	434	362	310	272	217	181	136	109	87	72
1.94	466	388	333	291	233	194	146	116	93	78
0.91	218	182	156	137	109	91	68	55	44	36
1.12	269	224	192	168	134	112	84	67	54	45
1.29	310	258	221	194	155	129	97	77	62	52
1.44	346	288	247	216	173	144	108	86	69	58
1.58	379	316	271	237	190	158	119	95	76	63
1.71	410	342	293	257	205	171	128	103	82	68
1.82	437	364	312	273	218	182	137	109	87	73
2.04	490	408	350	306	245	204	153	122	98	82
2.23	535	446	382	335	268	223	167	134	107	89
2.41	578	482	413	362	289	241	181	145	116	96
2.58	619	516	442	387	310	258	194	155	124	103
1.14	274	228	195	171	137	114	86	68	55	46
1.39	334	278	238	209	167	139	104	83	67	56
1.61	386	322	276	242	193	161	121	97	77	64
1.80	432	360	309	270	216	180	135	108	86	72
1.97	473	394	338	296	236	197	148	118	95	79
2.13	511	426	365	320	256	213	160	128	102	85
2.28	547	456	391	342	274	228	171	137	109	91
2.55	612	510	437	383	306	255	191	153	122	102
2.79	670	558	478	419	335	279	209	167	134	112
3.01	722	602	516	452	361	301	226	181	144	120
3.22	773	644	552	483	386	322	242	193	155	129
1.36	326	272	233	204	163	136	102	82	65	54
1.67	401	334	286	251	200	167	125	100	80	67
1.93	463	386	331	290	232	193	145	116	93	77
2.16	518	432	370	324	259	216	162	130	104	86
2.36	566	472	405	354	283	236	177	142	113	94
2.55	612	510	437	383	306	255	191	153	122	102
2.73	655	546	468	410	328	273	205	164	131	109
3.05	732	610	523	458	366	305	229	183	146	122
3.34	802	668	573	501	401	334	251	200	160	134
3.61	866	722	619	542	433	361	271	217	173	144
3.86	926	772	662	579	463	386	290	232	185	154

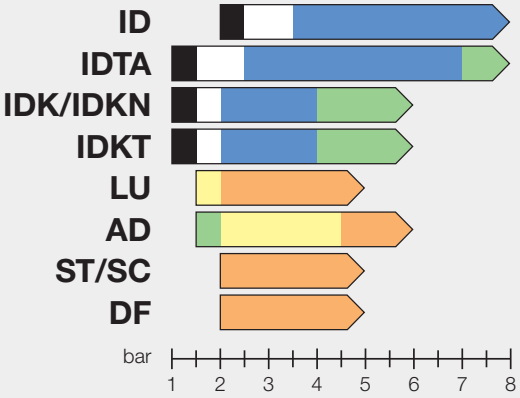
l/ha = -04 x 2

l/ha = -05 x 2

ID	**01-015:**	3.0 – **4.0 – 8.0** bar
ID	**02-10:**	2.0 – **4.0 – 8.0** bar
IDTA	**02-08:**	1.0 – **4.0 – 8.0** bar
IDK	**01-03:**	**1.5 – 3.0** – 6.0 bar
IDK	**04-10:**	**1.0 – 3.0** – 6.0 bar
IDKN	**03-04:**	**1.0 – 3.0** – 6.0 bar
IDKT	**015-025:**	**1.5 – 3.0** – 6.0 bar
IDKT	**03-06:**	**1.0 – 3.0** – 6.0 bar
LU:		**1.5 – 2.5** – 5.0 bar
AD:		**1.5 – 3.0** – 6.0 bar
ST/SC/DF:		**2.0 – 3.0** – 5.0 bar



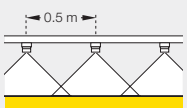
80°/90°
h = 60 – **75** – 90 cm
110°/120°
h = 40 – **50** – 70 cm



ISO droplet size:

VF	Very fine	C	Coarse
F	Fine	VC	Very coarse
M	Medium	XC	Extremely coarse
		UC	Ultra coarse

Apple Android



230 l/ha
8 km/h

$$\frac{\textbf{230 l/ha x 0.5 m x 8.0 km/h}}{\textbf{600}} = \textbf{1.53 l/min}$$

→ ID-120-03 (5.0 bar)

60 sec = 6.0 km/h
45 sec = 8.0 km/h
36 sec = 10.0 km/h

DROPLET SIZE TABLE

Page		0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
14	ID 120-01			UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	C	C	C	
	ID 120-015			XC	XC	VC	VC	VC	VC	VC	VC	C	C	C	C	C	
	ID 120-02			XC	VC	VC	VC	VC	VC	VC	C	C	C	C	M	M	
	ID 120-025			UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-03			UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-04			XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-05			UC	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-06			XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-08			XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	ID 120-10			UC	UC	XC	XC	XC	XC	VC	VC	VC	VC	VC	VC	VC	
20	IDTA 120-02	UC	UC	UC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	IDTA 120-025	UC	UC	UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	IDTA 120-03	UC	UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	VC	
	IDTA 120-04	UC	UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	
	IDTA 120-05	UC	UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	C	
	IDTA 120-06	UC	UC	XC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	C	C	
	IDTA 120-08	UC	UC	XC	XC	VC	VC	VC	VC	VC	VC	VC	VC	C	C	C	
15	IDK 120-01		VC	VC	VC	VC	C	C	M	M	M	M					
	IDK 120-015		VC	VC	VC	C	C	C	M	M	M	M					
	IDK 120-02		VC	VC	VC	VC	C	C	C	C	M	M					
	IDK 120-025		VC	VC	VC	C	C	C	M	M	M	M					
	IDK 120-03		VC	VC	VC	VC	VC	C	C	C	C	M					
	IDK 120-04	UC	XC	XC	VC	VC	VC	C	C	C	C	C					
	IDK 120-05	XC	XC	VC	VC	VC	VC	VC	C	C	C	C					
	IDK 120-06	XC	VC	VC	VC	VC	VC	C	C	C	C	C					
	IDK 120-08	UC	XC	VC	VC	VC	VC	VC	VC	VC	C	C					
	IDK 120-10	UC	XC	VC	VC	VC	VC	VC	VC	VC	VC	C					
15	IDKN 120-03	UC	XC	XC	VC	VC	VC	VC	C	C	C	C					
	IDKN 120-04	UC	XC	XC	VC	VC	VC	VC	VC	C	C	C					
21	IDKT 120-015		UC	XC	XC	VC	VC	VC	VC	VC	VC	VC					
	IDKT 120-02		XC	XC	VC	VC	VC	VC	VC	C	C	C					
	IDKT 120-025		XC	VC	VC	VC	VC	VC	C	C	C	M					
	IDKT 120-03	UC	XC	XC	VC	VC	VC	VC	VC	VC	C	C					
	IDKT 120-04	XC	XC	VC	VC	VC	VC	VC	C	C	C	C					
	IDKT 120-05	UC	XC	VC	VC	VC	VC	VC	C	C	C	C					
	IDKT 120-06	UC	XC	VC	VC	VC	VC	VC	C	C	C	C					
17	AD 120-015		M	F	F	F	F	F	F	F	F	F					
	AD 120-02		C	M	M	M	M	F	F	F	F	F					
	AD 120-03		C	M	M	M	M	M	M	F	F	F					
	AD 120-04		C	C	M	M	M	M	M	M	M	F					
18	LU 120-01 S		F	F	F	F	F	F	VF	VF							
	LU 120-015		F	F	F	F	F	F	F	VF							
	LU 120-02		M	F	F	F	F	F	F	F							
	LU 120-025		M	F	F	F	F	F	F	F							
	LU 120-03		M	F	F	F	F	F	F	F							
	LU 120-04		M	M	M	F	F	F	F	F							
	LU 120-05		M	M	M	F	F	F	F	F							
	LU 120-06		M	M	M	F	F	F	F	F							
	LU 120-08		C	M	M	M	M	M	M	M							
	Pressure [bar]	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8

ISO 25358: Droplet size classification

VF	Very fine
F	Fine
M	Medium
C	Coarse
VC	Very coarse
XC	Extremely coarse
UC	Ultra coarse

Classifications are subject to change.

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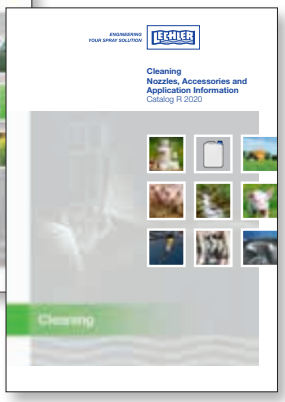
... AND IN OUR BROCHURES

Brochure “Spray Nozzles and Accessories for viticulture, orchard and speciality crops”

Brochure “Application of Liquid Fertilizer Recommendations Nozzles and Accessories”



Brochure “Cleaning Nozzles, Accessories and Application Information”

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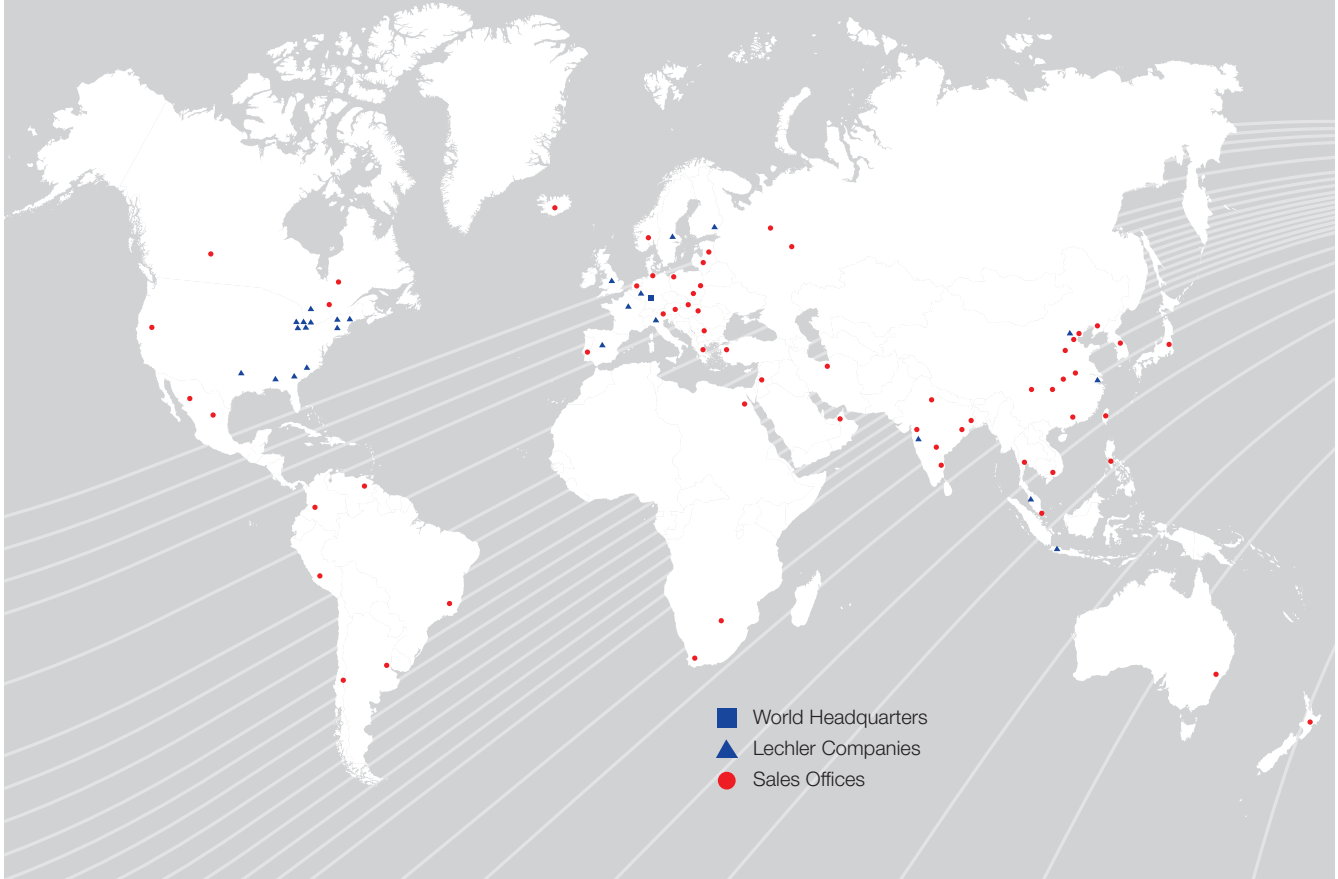

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