



**Split** Dual plot combine

Alpha



## Intelligent machines for global challenges.

WINTERSTEIGER has established itself at the top of a niche market which will continue to gain significance in future. Agronomists and plant breeders today face the challenge of introducing new developments to make a decisive contribution towards sustainable food and energy supplies for the world.

WINTERSTEIGER supplies the technology needed to do this. The Split is a specially developed plot combine for harvesting two plots in a single pass. The Alpha was specially developed for harvesting in large-scale plots, test fields and for seed increases. This ensures a perfect framework for the research, breeding, testing and seed increases of field crops - including specialty crops - at the highest standards.

Read the following pages to discover in detail what the global market leader offers you.



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# Split Dual plot combine.

## Powerful harvesting of two plots in a single pass.

The WINTERSTEIGER Split is a specially developed plot combine for harvesting two plots in a single pass. This machine offers the performance of a commercial combine while fulfilling the strict requirements of plot harvesting.



## Your benefits summed up:

- Robust and powerful
- Short cycle times from plot to plot thanks to pneumatic seed transport
- Mix-free harvesting of left and right plot
- Mix-free harvesting of subsequent plots thanks to pneumatic seed transport
- Clean sample with very little seed loss
- High-performance weighing system for precise weighing data
- Ergonomic operation
- Easy to transport



## Basic machine for peak performance.

The WINTERSTEIGER Split has a hydrostatic ground drive with powerful hubmounted wheel motors. The 136 kW (185 HP) diesel engine is designed for power and operational safety. Speed ranges: forward/reverse 0 - 20 km/h (12.5 mph) in 3 steps.

Optional all-wheel drive can be enabled from the driver's seat for difficult terrain.

#### Accessories:

- Additional diesel tank; 91 l or 200 l
- Working lights for maintenance and inspection work
- Safety rail at top
- Lateral platform for weighing system

## Telescope axle (option).

The front axle is adjustable between a total width of 2.55 m (8'4") and 3.15 m (10'4"). This allows the owner to transport the machine on public roads, while at the same time guaranteeing excellent stability in the field.









## Perfect visibility from the cabin.

The WINTERSTEIGER Split cabin is characterized by a number of benefits, but in particular by a clear-cut layout of the control panel, easy and simple operation and a wide range of settings. For this purpose, the cabin gives the driver a perfect view of all functional areas. The mechanically spring-mounted ergonomic seat can be adjusted individually to match the

driver's weight. On top of this, the cabin has air-conditioning, heating and a radio/CD player.

## Accessories:

■ Rear-view camera



Excellent all-round view covering all areas of operation



Multifunction lever

## All controls and displays are clearly laid out and easily accessible:

- Input and control functions are directly on the terminal
- Hydraulic steering

# A multifunction lever puts all the machine's driving and harvesting controls in one hand:

- Ground drive: forward/reverse
- Header: raising/lowering
- Header: speed adjustment
- Feed chain feeder house: speed adjustment
- Weighing system: "ENTER" button for the weighing system



## A variety of headers is available.

## Corn header.

The 4-row or 6-row corn header ensures regular feeding even under difficult harvesting conditions and offers the following features:

- Mix-free split of corn head
- Two-roller picker with or without stalk chopper
- Row spacing 750 mm (30"), other row spacing on request
- Picker plate adjustable to different stem thickness from cockpit with electronic display
- Three speed gearbox for regulating speed to match varying harvesting conditions, including electronic speed monitoring
- Optional hydraulic folding head for easy transport



Corn header, hydraulic folding



## Mix-free seed transport, gentle on grain.

The powerful pneumatic seed delivery system transports the grain gently to the weigh bucket and sub sampler.



Grain tank extension to 6200 I

## Grain tank.

The standard machine is equipped with a 4200 I (120 bu) grain tank; an optional grain tank extension increases the capacity to 6200 I (170 bu) or 7700 I (220 bu). The grain tank extension can be folded in when transporting the machine.

## Sampling.

In combination with the weighing system, sampling is additionally available (1-man harvesting). Sampling is performed in the cabin - the sample is transported to the driver by means of a sample conveyor, sample taker, sampling unit and an electronic sequence control and can be taken off by the driver.



## Perfect threshing for a clean harvest.

The split threshing unit, the split threshing case with belt conveyor, and the double pneumatic seed transport ensure clean separation of the samples from both plots.



Split threshing drum



Double pneumatic seed transport



Split feeder house



Split threshing drum



Split threshing case

## Shaker.

The shaker separates the grain from the straw which is transported to the cleaning sieve box via a threshing case conveyor. The straw is either dropped onto the field uncut, or is spread by means of a chopper or chaff spreader.

## Cleaning sieves.

- Adjustable universal high-performance sieve
- Adjustable high-performance maize sieve

## Reduction gear for harvesting legumes (option).

It is particularly important to keep the threshing drum speed low, to ensure gentle threshing when harvesting legumes. This prevents seed damage and preserves the germination capa-

city of the harvested material. The reduction gear supports threshing drum speeds between 200 and 575 rpm.

## Straw chopper (option).

The straw chopper distributes the chopped straw evenly and can be folded up if it is not needed.

## Chaff spreader (option).

To distribute the chaff over the full cutting width of the combine, a chaff spreader can optionally be used.



## Mobile collection of all your harvest data.

WINTERSTEIGER also places an emphasis on future-oriented solutions in the field of mobile data collection. Only state of the art systems specially developed for agricultural research are used in our harvesting machines.

#### Automatic harvest data logging takes the following parameters into consideration (depending on the harvesting data system):

- Plot weight with maximum precision up to a slope of 10 %
- Moisture content of harvested material
- Volumetric weight

 Material content by means of near field infrared spectroscopy (NIRS)

## Easy Harvest Harvesting Software.

Collecting, managing and protecting data have become the focus of the processes of agricultural field trials. Easy Harvest is used on the harvester in connection with a mobile harvesting data system and enables highest precision weighing and moisture measuring. Above all, Easy Harvest offers the advantages of high operational reliability and allows you to harvest several trials in a field in a single operation.

## Your benefits summed up:

#### Easy and convenient operation

- Clear and user-friendly menu-driven operation in different languages
- Simple creation of field maps and trial arrangements
- Harvesting of several trials in a field in a single operation
- Additional information can be added to the plots as notes
- Precalibrated moisture curves
- Simple import and export of data

## High precision, reliability, traceability

- Precise weighing result and moisture measurement
- Integrated sampling contro
- Integrated label designer and label printer
- Data protection through backup file (e.g. USB stick)
- Ability to manually control the processes
- Error diagnosis system
- Allows for several users with different rights

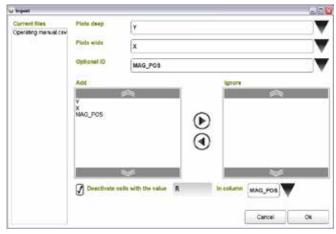
## Preparation.

Trials can be either imported or created in the software.

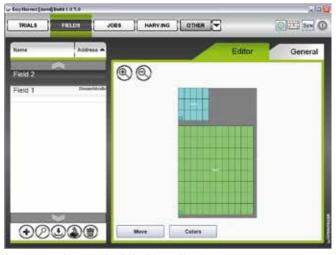
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Trial is set up

Data can also be synchronized. Fields can be freely arranged and then positioned.



Trials and field maps can also be imported





Several trials can be arranged in a field and then positioned

#### Harvest.

In harvest mode, you can at all times see your position, which plots have already been harvested and the corres-



Simple navigation in the field

ponding results. The samples can also be labeled.



Convenient creation of notes

## Data export.

The data can be either synchronized or exported as a CSV file for further processing.



Label designer

Ш	. A.	В	C	D	E	F	G	H
1	Reihen	Spatten	Gewicht	Feuchtigkeit	Datum	Time	Lfd. Nr	Customid
2	1	1	6,165	10,6	03.09.2011	10:27:18	1	195101
3 4	1	2	6,251	12,2	03.09.2011	10:42:44	2	195102
4	1	1	5,472	10,7	03.09.2011	10:53:08	1	195101
5	1	1	7,823	12.8	03.09.2011	11:28:35	1	195101
8	- 1	2	7,413	14,1	03.09.2011	11:29:46	2	195102
7	1	1	6.057	15,7	03.09.2011	11:33:24	.1	195101
8	1.	2	5,318	16,1	03.09.2011	11:36:14	2	195102
9	1.	3	4,328	15,1	03.09.2011	11:44:14	3	195103
10	2	1	5.328	14,3	03.09.2011	11:53:45	4	192001
11	2	2	7,072	11,1	03.09.2011	11:57:53	5	192026
12	2	3	6,284	12,5	03.09.2011	11:58:59	6	192051
13	3	1	5,671	12.7	03.09.2011	12:01:53	7	192002
14	3	2	6,165	11,7	03.09.2011	12:02:56	8	192027
15	3	3	6.251	12.1	03.09.2011	12:04:13	9	192052
16	4	1	5,472	10,6	03.09.2011	12:05:14	10	192003
17	4	2	7.823	12,3	03.09.2011	12:07:01	11	192028
18	4	3	6,585	11,3	03.09.2011	12:10:04	12	192053
19	5	1	6.211	12,1	03.09.2011	12:11:10	13	192004
20	- 5	2	3,679	11,3	03.09.2011	12:12:01	14	192029
21	5	3	6.994	13	03.09.2011	12:13:34	15	192054
22	6	1	5,315	12,7	03.09.2011	12:14:18	16	192005
23	6	2	6,917	13,4	03.09.2011	12:15:01	17	192030
24	- 6	3	7,418	12,1	03.09.2011	12:15:58	18	192055
25	7	- 1	6,391	10,7	03.09.2011	12:16:59	19	192006
26	7	2	5,21	11,5	03.09.2011	12:17:39	20	192031
27	7	3	8,316	11,3	03.09.2011	12:18:42	21	192056

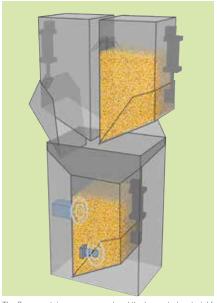
## Mobile Harvesting Data System Twin High Capacity GrainGage™.

This harvesting data system is perfect if you need to achieve fast weighing cycles and use the Easy Harvest Harvesting Software for field plan implementation. Stores the measured data and exports the resulting data.

#### The sequence is as follows during harvesting:

- The weighing system comprises 2 pre-containers (for the left and right plots respectively) and a weigh bucket with the sensors required for weight and moisture measurement
- The weighing cycle is actuated manually at the end of the plot by pressing a button
- The harvested material is fed from the pre-container into the weigh bucket where the measurement occurs
- The left plot is measured first, followed by the right plot
- The data is stored on the PC, e.g. the Panasonic Toughbook

- Additionally, the data can be printed out on a mobile field printer or stored on an additional memory card
- Additionally, the weighing system has a countdown timer for determining the optimum time for the measurement





The 2 pre-containers are opened and the harvested material falls into the weigh bucket

## Your benefits summed up:

- The single-chamber system is easy to calibrate, easy to operate and delivers precise results at fast cycle times
- Precision electronics: The new HM800 electronics link the weight and moisture sensors by means of a CAN bus data line. The core of the new data collection system is
- the "HM800 Analog and Actuator Module". This avoids long/bulky cables
- Slope and motion sensor: Improves weighing precision and reduces errors caused by vibrations/ the harvester moving. This enables weighing while the harvester is moving through the plot and measurements on slopes of up to 10 %
- Moisture sensor: Highly precise measurements are possible despite high levels of moisture
- Continuous harvesting of long plots is supported
- Use of Easy Harvest Harvesting Software



# Technical data Weighing system Dimensions (W x D x H) 787 x 483 x 1,118 mm Weight 72 kg Capacity Approx 20 kg maize Grain discharge opening 457 mm Actuator Precision pneumatics

Measuring accuracy / speed		
Weight	+/- 80 g absolute	
Hectoliter weight (option)	+/- 1.2 kg/100 l for over 95 % of all samples	
Moisture	+/- 0.5 % to 25 % (wet weight basis - wwb), +/- 0.9 % to 35 %	
Minimum quantity for moi- sture content measurement	Approx. 7 liters Approx. 2 liters when using volume reduction device	
Speed cycle time	Approx. 16 sec system ready / data recorded	

HM 800 Electronic		
Protection class	Water- and dustproof to IP67	
Operating temperature	-20°C to +50°C	
Power supply	9 - 17 V DC	
Interface	CAN Bus - 4 wires	
Connection	Con X all connectors	

We reserve the right to make technical alterations.

## NIRS analysis.

Near infrared spectroscopy (NIRS) has established itself in agricultural analysis over decades and has been the focus of both theoretical and practical ongoing development work. It is evident that the transition from the laboratory to field measurements and thence to online measurements performed directly on the harvester will continue to gain significance. The Split can be equipped with a NIRS analysis device for mobile moisture content and quality testing.

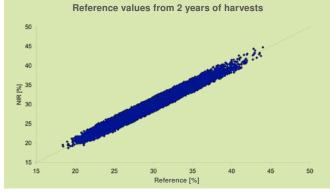
## The harvesting sequence is as follows:

- After the weigh bucket, the harvested material flows over the NIRS sensor
- The layout is designed to allow the harvested material to clean the glass during every measuring cycle
- The signal to open the weigh bucket flap starts the NIRS measurement software side
- The duration of the measurement can be set in the software
- The software runs on a laptop in the cabin

The figure shows a cross-validation of the water content in maize with reference values from 2 years' harvests. The reference values from samples in stationary measurements are shown on the x axis. The y axis shows the values measured using a mobile, harvester-mounted system.



NIRS measuring installed on the weighing system



Cross-validation of the water content in maize with reference values from two years' harvests

## Split Figures. Data. Facts.

Technical data	
Basic machine/engine	
Diesel motor	136 kW/185 PS, 6 cylinders
Tank capacity	200 I, additional tanks for 91 or 200 I
Ground drive	
Hydrostatic ground drive	3-speed: 7 / 14 / 20 km/h
Steering	Hydraulic
Front tires = driven axle	18.4 – 34 R or 600/65 R34
Rear tires = steering axle	11.5-15 or 360/70 R20
Service brake	Hydrostatic
Parking brake	Drum brakes
Ground clearance	320 mm (12.5")
Wheel base	3,260 mm (10'8")
Turning radius	5,900 mm (19'4")
Headers	
Corn header	4- or 6-row, fixed or foldable type
Row-Crop Header	4-row for row harvesting of soybeans or sorghum, fixed or foldable type
Cutting unit	Split cutting table, various widths
Grain collection and transport	
Seed transport	Double pneumatic transport
Grain tank	4,200 l (120 bu)
Grain tank emptying height	4 m (13')
Weighing system	HarvestMaster or DK 800 data collection and transfer system
Sampling	Sampling in the cabin
Threshing and cleaning	
Threshing case	Split with threshing case conveyor belt
Enclosed threshing drum	Width: 1,110 mm (43,7"), diameter: 500 mm (19.6"), number of bars: 8, speed: 400 - 1,150 rpm, infinitely adjustable
Concave	Surface: 2 x 0.25 m² (2.7 sqft) , coverage angle: 105°, number of bars: 12
Shaker	4-row split (2 x 2 division)
Wind adjustment	Electrical
Options	
	Reduction gear for threshing drum speed of 200 - 575 rpm, manually or electrically actuated grain tank extension to 6,200 l or 7,700 l, rear-view camera, safety rail top, platform at side, working lights, straw chopper, chaff spreader
Specifications	
Dimensions	Length: 10,200 mm (33'6") Width: 2,550 (8'4") to 2,950 mm (9'8") Height: 3,680 mm (12'1")
Weight	Approx. 9,000 kg (without header) (20000 lbs)

We reserve the right to make technical alterations.

## Transport trailer.

A specially designed trailer is available for transporting the Split.

Tec	hn	ica	Ιd	ata

Specifications	Length: 8,800 mm (28'10") Width: 2,550 mm (8'4")	
Net weight	5,000 kg (1100 lbs)	
Max. permitted gross weight	16,000 kg (35200 lbs)	
Tires	Twin wheels front and rear	
Suspension	Air suspension	
Braking system	Twin line all-wheel air brakes	

We reserve the right to make technical alterations.





## Alpha

Plot combine for seed increases and large-scale plots.

## Powerful harvesting for seed increases and large-scale plots.

The WINTERSTEIGER Alpha is a specially developed combine for large-scale plots, test fields and seed increases. This machine offers the performance of a commercial combine while fulfilling the strict requirements of clean harvesting.



## Your benefits summed up:

- Good self-cleaning performance thanks to pneumatic seed transport and threshing case conveyor belt
- Easy cleaning of the machine through cleaning openings in the threshing drum, concave, feeder house and threshing case, as well as easily removable shakers
- Robust and powerful
- User-friendly and ergonomic operation
- Easy to transport
- Many ontions

## A variety of headers is available.

The Alpha can be fitted with various grain heads, a corn header, or a row-crop header.

## Grain head.

The cutting unit is a combination of a reel, intake auger and feeder house. It has proven itself under the most difficult harvesting conditions, such as lodged, heavy, and bulky crops with high moisture levels.



Cutting unit

## The cutting unit has the following characteristics:

- Even feeding and high harvesting performance
- Flexibility thanks to various cutting table widths (cutting widths 3100, 3450, 3900, 4200, 4500, 4800, 5100 mm; 10'2", 11'4", 12'9", 13'9", 14'9", 15'9", 16'9")

#### **Accessories:**

- Cutting table extensions and vertical cutter bars for rapeseed harvesting
- Equipment for sunflower harvesting

## Perfect threshing for a clean harvest.

The threshing drum, threshing case and threshing case conveyor belt, and the pneumatic seed transport support



Threshing case conveyor belt

best threshing of the harvesting material. The grain is separated from the chaff by the shakers and separating sieves.



Pneumatic seed transport



## Cleaning.

To ensure a mix-free harvest, the machine is designed for ease of cleaning. Cleaning is effected by easily removable

shakers, an easy to clean grain tank, and via various cleaning openings throughout the machine.



Feeder house cleaning opening



Threshing case cleaning opening

## Sampling.

In combination with the weighing system, sampling is additionally available (1-man harvesting). Sampling is performed in the cabin - the sample is transported by the

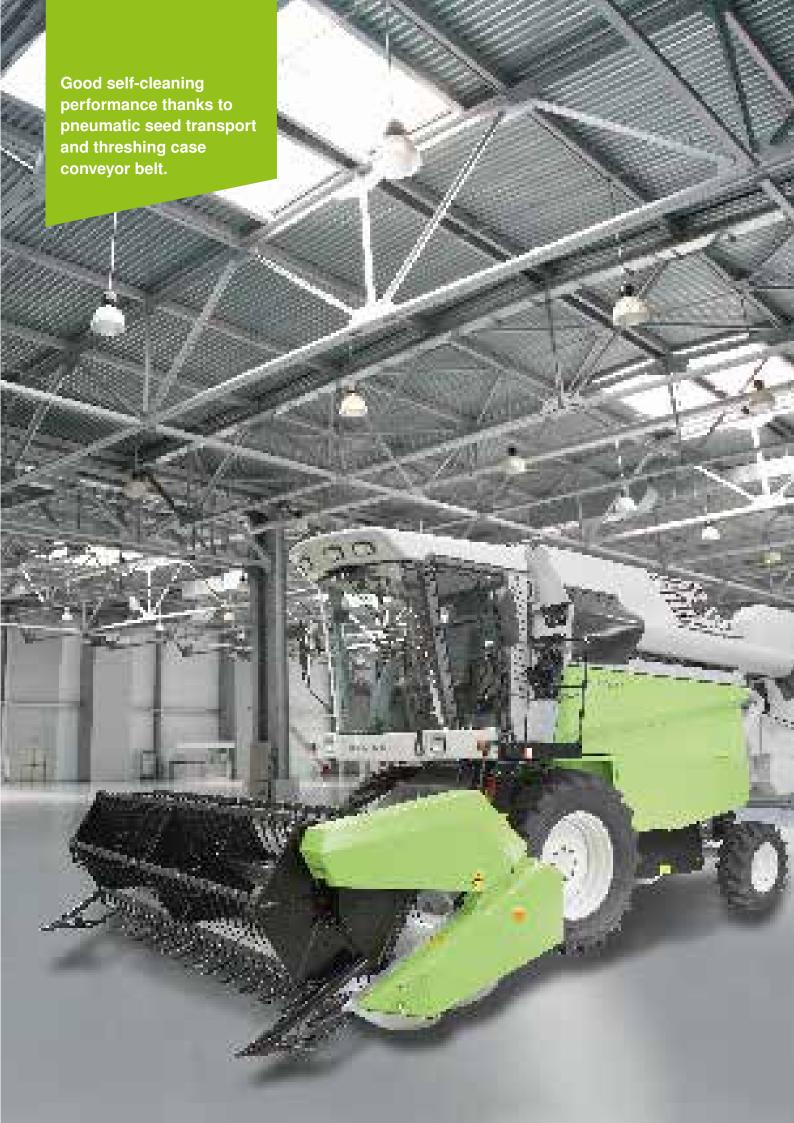
pneumatic seed delivery system into the cab where the driver can take off the sub sample. The sample taker has an electronic sequence control for safe operation.



## Alpha Figures. Data. Facts.

Technical data				
Basic machine/engine				
Diesel motor	SisuDiesel, 136 kW/185 PS, 6 cylinders			
Tank capacity	350 I			
Ground drive				
Hydrostatic ground drive	3-speed: 7 / 14 / 20 km/h			
Steering	Hydraulic			
Front tires = driven axle	600/65 R34			
Rear tires = steering axle	360/70 R20			
Service brake	Hydrostatic			
Parking brake	Drum brakes			
Track width	Front: 2,200 mm (7'2"), rear: 2,240 mm (7'4")			
Ground clearance	320 mm (12.5")			
Wheel base	3,260 mm (10'8")			
Headers				
Cutting units	3,100, 3,450, 3,900, 4,200, 4,500, 4,800, 5,100 mm (10'2", 11'4", 12'9", 13'9", 14'9", 15'9", 16'9")			
Picking header	4-row, fixed, or hydraulic folding			
Row-crop header	4-row, fixed, or hydraulic folding			
Grain collection and transport				
Seed transport	Pneumatic seed transport			
Grain tank	4,200 l (120 bu)			
Grain tank emptying height	4,000 mm (13')			
Weighing system	HarvestMaster or DK 800 data collection and transfer system			
Sampling	Sampling in the cabin (option)			
Threshing and cleaning				
Threshing case	With threshing case conveyor belt			
Threshing drum	Width: 1,110 mm (43.7"), diameter: 500 mm (19.6") Number of bars: 8, speed: 400 - 1,150 rpm, infinitely adjustable			
Concave	Surface: 0.5 m² (2.7 sqft), coverage angle: 105°, number of bars: 12			
Shaker	4-part			
Wind adjustment	Electrical			
Options				
	Reduction gear for threshing drum speed of 200 - 575 rpm, manually or electrically actuated grain tank extension to 6,200 l or 7,700 l, rear-view camera, safety rail top, platform at side, working lights, straw chopper, chaff spreader			
Specifications	Specifications			
Dimensions	Length: 10,200 mm (with header); 33'6" Width: 2,550 (8'4") to 2,950 mm (9'8") Height: 3,680 mm (12'1")			
Weight	Approx. 9,000 kg (without header); 20000 lbs			

We reserve the right to make technical alterations.



## WINTERSTEIGER After Sales Service. The delivery is just the start of our service.

The best time to evaluate the quality of an investment is several years after delivery. That is why WINTERSTEIGER has set up a worldwide After Sales Service.

#### **Commissioning and training**

WINTERSTEIGER ensures both with its experts worldwide and of course on site.

#### **Proactive maintenance**

Maintenance and preventive exchange of pre-defined parts subject to wear and tear at pre-set times eliminate problems before they arise. For example, during our customers' annual holiday to keep maintenance costs as low as possible.

#### On-Call-Help-Desk

This service underlines our high claims for service for our partners worldwide. It ensures first class support even outside our own hours of business.

#### Strong customer service team

A large team of extremely well trained service staff provides comprehensive care for:

- Installation and commissioning
- Training
- Preventive maintenance
- Conversions
- Modifications
- Clearing faults
- Repairs
- Support
- Rapid supply of replacement parts

#### **Advice services**

- Advice from experts on technical equipment for research facilities
- Participation at international seed breeding symposia
- Arranging contacts with experts
- Advice from agricultural consultants in the definition and implementation of projects and technology transfer



### Intensive guidance and training courses

WINTERSTEIGER regularly holds guidance and training courses for operating staff, either directly on site, in our original building in Austria or one of our agencies around the world. They are the basis for perfect mastery of the machines and an uninterrupted harvest. This helps avoid down time and saves costs. Both WINTERSTEIGER service engineers and the service engineers from our agencies receive ongoing training and product information about new developments.

# Those who sow also harvest with WINTERSTEIGER.

WINTERSTEIGER has positioned itself at the peak of a niche, which will become more critical in the future. Today, agricultural field research is challenged with providing significant contributions for a lasting food and energy supply to the world through new developments. WINTERSTEIGER provides the necessary technology.

Uniquely designed products offer a range, which covers the entire cycle of field research from the sowing to the harvesting:

#### Sowing

Precision spaced planters, plot drills, single row seeders and plot tractors for the front and rear planting with seed machines

## ■ Fertilization and plant protection

Fertilizer distributors, field sprayer and hand-pushed plot sprayer

#### ■ Data collection

Field PC's for mobile data acquisition

#### Harvesting

Plot combines, stationary combines and forage harvester

#### ■ Laboratory analysis

Laboratory thresher, laboratory corn sheller, seed dresser, sample chopper and sample divider



Plot combine Split



Plot combine Delta

As complete provider in agricultural testing, WINTERSTEIGER proves itself as strong partner for customers in various fields:

- Agricultural Universities and research centers
- Agricultural ministries and their departments for plant breeding
- National and international institutes for development projects



Precision spaced planter Dynamic Disc



Laboratory thresher LD 350

- National and international companies that research in the field of plant breeding
- Service companies that test for research companies

## Precious seed deserves a careful harvest.



## WINTERSTEIGER. A Global Player.

The world has changed fundamentally since WINTERSTEIGER was founded back in 1953. The internationalization of markets and technological revolutions have become the deciding factors in the global competition.

WINTERSTEIGER has always considered such challenges opportunities and has taken advantage of them. This has resulted in continuous growth, which is further ensured by the innovative power of its employees

and driven through strategic acquisitions. In this way we succeeded in providing the optimal conditions for long-term and stable partnerships with our customers.

## The result:

- 18 subsidiaries
- 60 representatives
- Sales to 130 countries worldwide
- 90 % export share
- Global market leader in the three business areas SEED MECH, SPORTS and



**Business Area SPORTS**Ski service, rental and depot solu-

## **Business Area BOOTDOC**

Personalized solutions for every foot



**Business Area DRYTECH** 

Drying solutions for work wear and equipment



Field research equipment

**Business Area SEEDMECH** 



**Business Area WOODTECH** 

Process solutions for quality thin-cutting



**Business Area BANSO** 

Saw blades for wood and food



Business Area LEVELLING TECHNOLOGY

Levelling machines and periphery



Split & Alpha 04/2013. Fotos: Deutsche Saatveredelung AG, Resch, WINTERSTEIGER. Copyright © WINTERSTEIGER AG,

# Success begins with the right decisions. At the right time. We look forward to you!





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#### Representations:

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