





Quantum

Plot combine.

The new benchmark in field research equipment.

The Quantum is the new plot combine in the mid-range performance segment developed by WINTERSTEIGER to meet the increasingly demanding challenges of state-of-the-art field research, from nursery to yield trial plots.

Featuring a modular design, the Quantum comes with many innovative solutions, such as the patented airfoil separator for fast and gentle seed transport. The combine sets new benchmarks in terms of throughput, user-friendliness and seed handling, all to your benefit.

The result of ongoing and consistent development, the Quantum's OptiFlow^w header with belt feeder and OptiFlow^w high-performance threshing unit enable maximum throughput – even under the most difficult harvesting conditions.



Your benefits summed up:

- **Powerful machine for breeding and crop variety trials**
- **Stress-free working thanks to an advanced operating concept**
 - Optimal layout and low noise level in the cabin
 - Top ergonomics for stress-free working for the driver and operator
 - Intuitive driver assistance system with fully automatic sequence control
- **Maximum operating efficiency**
 - OptiFlow™ cereals header and high-performance threshing unit for optimized material flow

- Perfect cleaning system thanks to an axial fan with optimal air flow
- Maximum level of sample purity thanks to patented post-cleaning
- Long range thanks to low fuel consumption and large tank volume
- Sturdy construction and low maintenance costs
- **High-performance crop logistics**
 - Minimal cycle times
 - Flexible and high-performance sample definition
 - Integrated and optimally located sampling and bagging system

- **Precise data collection technologies**
 - High-performance Harvestmaster® weighing systems
 - Integrated NIRS data collection
- **Well suited for multiple crops**
 - Exchange of header and concave within a few minutes
 - Center row threshing ability starting at spacing of 52 cm between rows of corn or 125 cm for grain
 - Sieves and shakers can easily be interchanged



Stress-free working thanks to an advanced operating concept.

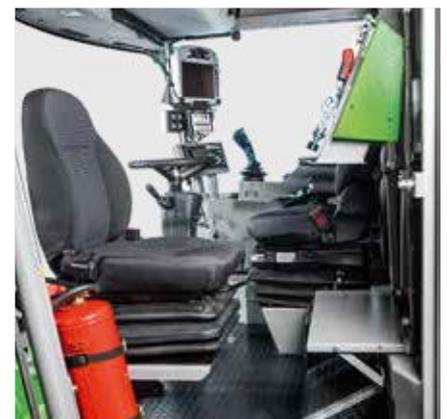
The WINTERSTEIGER Quantum is characterized by the excellent design of the cab, cockpit and controls, which are clearly oriented to the users' needs. This makes using the machine for harvesting considerably less stressful, significantly reduces factors that lead to tiring and helps to keep up concentration levels, even at the end of a long day's harvest. The Quantum sets standards that previous plot combines have been unable to offer.

Premium cab: keeps stress at bay.

- Clear-cut space concept: The driver's seat is slightly off-center and thus ergonomic with respect to the controls. The second operator has the space needed to work comfortably.
- Noise reduction: The cab is certified for a noise level inside the cab of just 76 DB(A). This is achieved by the curved windows, decoupled mounting on the cushioning elements, and a damping floor covering.
- Maximum safety: The cab is built in accordance with EN 13531, TOPS-tested and certified.
- Pleasant climate: The cab boasts best-in-class cooling even at high outdoor temperatures, thanks to its powerful air-conditioning system with a cooling output of 8 kW.
- Stress-free seating positions: The Quantum has comfortable ergonomic seats for the driver and operator that are also available as air ride seats.
- Dust-free: Dust is kept out, as the sampling system is sealed off.



Clear-cut space concept for comfortable working



Ergonomic workstations

The cockpit: revolves around the driver's needs.

- The height and tilt of the steering column are adjustable.
- Safe handling: The multi-function lever is built into the armrest and moves with the driver's seat.
- All the harvesting mode functions are triggered from the multi-function lever:
 - Ground drive forward/reverse
 - Lifting/lowering the header
 - Raising/lowering the reel
 - Reel speed control
- Header quick stop
- Activating the differential lock / 4 WD drive system (option)
- Switching between the fast and slow ground speeds
- Moving the reel forwards/backwards or opening/closing the picker bars
- Starting sequence control
- All the other controls and functional elements are ergonomically located on the operating panel.



The multi-function lever built into the armrest

On-board computer: enables you to keep track of everything at a glance.

- State-of-the-art and intuitive visualization of all the machine parameters on a single color screen
- Intuitive menu navigation through function keys
- Integrated USB interface
- Many useful additional harvest features (e.g., the ability to couple the reel speed with the harvesting speed)
- Other additional features, such as cruise control and a refueling count-down timer
- If a rear-view camera (option) is installed, the camera image is automatically displayed when the reverse gear is selected.
- Semi- or fully automated processes for optimized plot-to-plot sequence control:
 - Stopping the machine between plots
 - Automatic pneumatic cleaning of the header
 - Automatic raising of the header and lowering of the reel
 - Automatic opening of the sieve (option) and cleaning blower ramp-up
 - Starting the weighing and sampling cycle
 - Restarting the machine
- Best possible overview of the current sequence status



Enables you to keep track of everything at a glance

The steps that disappear.

The Quantum boasts an excellent feature for harvesting center plots: automatic foldaway steps. When the cab door is closed, the steps automatically fold up, which prevents plants from getting trapped in the steps during harvesting. This is clearly a benefit!

When the cab door is opened, the steps automatically fold down again and therefore ensure the driver is able to exit the cab safely.



Foldaway steps





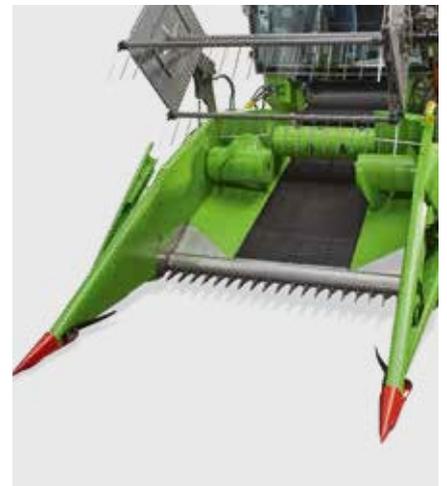
Headers for maximum performance.

Headers with OptiFlow^W technology.

The Quantum's OptiFlow^W technology is the result of ongoing and consistent development of headers for plot combines. OptiFlow^W demonstrably enables the machine to achieve its maximum feeding performance, even under the most difficult of conditions – it doesn't matter whether the combine has to deal with lodged grain, heavy weed or grass growth, long straw or bulky crops. The split intake auger improves material flow considerably, especially in the case of rapeseed, and thus removes the need for special rapeseed headers. The compacting drum ensures that the material is compacted and aligned as it is handed over to the threshing unit.

OptiFlow^W header performance features:

- There is a rounded step directly behind the cutting knife for improved material flow and effective protection against grain loss.
- The split intake auger offers the best possible material flow and maximum feeding performance. In combination with the compacting drum, the harvested material is passed to the threshing unit lengthways. This substantially improves the efficiency of the threshing unit.
- The driver has the best possible view of the cutting knife thanks to the split intake auger.
- No intermixing thanks to effective pneumatic cleaning with compressed air
- The large lift height (1050 mm) optimizes rapeseed and sunflower harvesting.
- Modern hydraulic direct-drive mechanisms with a high level of efficiency
- Quick-stop system for the complete header prevents the intake of foreign objects
- Skids for low and even cutting height equipped with fast adjustment mechanism



OptiFlow^W header



The driver has the best possible view of the cutting knife



Optimal material flow thanks to the split intake auger



Rounded step prevents grain loss

Versions and accessories:

- Cereal headers available with cutting widths of 125, 150 and 175 cm
- Reels available with 4 or 5 parts. The 5-part reel offers even smoother feeding.
- Hydraulically driven vertical cutter bars on the left and right for rape-seed, beets and beans reduce losses at the separation points.
- Hydraulic horizontal reel adjustment
- Crop lifter for harvesting lodged crops
- Reel brushes for cleaning the cutting unit

Corn header.

Equipped with the corn header the Quantum also impresses with its performance harvesting corn plots.

Corn header performance features:

- Mix-free conveyor belt system
- Stable frame, and robust and proven picking elements
- Loss-free harvesting and uniform, gentle feeding of the harvested material
- Hydraulic adjustment of picker bars in cockpit
- Narrow design so that center plots can be harvested, even with tight spacing between rows

Versions and accessories:

- 2-row: Row spacing of 60 (24") and 75 cm (30") are available. Other row spacing on request.
- Rotadisc chopper (option) ensures clean chopping results.
- Additional equipment for sunflower harvesting (option)



Quantum with corn header





Row Crop Header.

The Row Crop Header is a cutting table for harvesting soya beans with large row spacing intervals. The flat angle of the picking elements and the conveyor belt ensure the careful intake of crops, a low cutting height, and optimum feed. The stone trap prevents the intake of foreign objects. Thanks to its modular design, the Row Crop Header can be perfectly adapted to your needs and the respective soil conditions. The row units are floating, but can also be fixed in place. Sturdy, height-adjustable or rotating skids are available for the smallest cutting heights, as well as side carrying wheels.

Row Crop Header performance features:

- Modular concept (fixed/floating units, with carrying wheels/skids)
- Adapts perfectly to irregularities in the terrain
- The intake speed, reversing unit for feeder elements, folding crop divider, etc. can be adjusted from the cockpit whilst on the move
- Low cutting height (from 5 cm / 2")

Configuration and accessories:

- Row spacing: 76 cm (30"); other row spacing intervals are available on request
- Side carrying wheels



Quantum with Row Crop Header cutting table



OptiFlow^W threshing unit and cleaning system.

WINTERSTEIGER also offers the result of consistent research and ongoing development in the form of the threshing unit's OptiFlow^W technology. The OptiFlow^W threshing unit impresses with maximum throughput performance – even in difficult conditions such as a high percentage of straw or moisture in the harvested material. The optimized material flow offers improved material flow and higher throughput at the same time.

OptiFlow^W threshing unit performance features:

- Wide threshing drum speed range from 240 to 1680 rpm for gentle threshing of all crops
- Powerful threshing drum with a diameter of 400 mm (15,7")
- Large concave separating area for threshed grain thanks to a large wrap angle (117°) and drum diameter
- Efficient material flow thanks to innovative design and arrangement of the threshing and beater drums
- Fast hydraulic adjustment of the concave with operation and display in the cockpit
- Easy replacement of the concave from the side, without needing to remove the header

Versions and accessories:

- Concaves for all crop types (mesh intervals of 6 to 36 mm)
- De-awner bars for 9 and 12 mm concaves



Easy replacement of the concave

Cleaning system.

The separating and cleaning system with shaker and sieves was adapted to match the threshing unit's performance. The shaker is highly efficient thanks to its long stroke and large drop. Ball bearings in the swing arms of the shaker and sieves guarantee a long service life. Hydraulically driven axial blowers provide the high output necessary for the sieve system, and a laminar airflow in a space saving design. The step with the intermediate rake after the threshing case conveyor belt aids the material separation.



Powerful cleaning system

Cleaning system performance features:

- Cleaning system performance adapted to match the threshing system
- Swing arms supported by ball bearings
- Concaves, shakers and sieves available for all crop types
- The sieves are easy to replace and their angle easy to adjust.
- The shaker inserts and sieves are interchangeable.

Versions and accessories:

- GRAEPEL shaker sizes up to 32 mm
- GRAEPEL top sieves ranging from 4 to 32 mm for all crop types, or an adjustable lamella top sieve
- Bottom sieves for all crop types (round hole) ranging from 3 to 20 mm
- Top sieves can also be used as bottom sieves.
- Pneumatic lamella sieve opening (option) for the cleaning cycle
- Grain loss display

High performance seed logistics.



Grain logistics elements:

- 1 Airfoil separator
 - 2 Weighing system
 - 3 Sample definition
 - 4 Sampler
- Transport of the harvested material from the cleaning sieve box upwards
 - Grain separation airfoil separator
 - Weighing system
 - Interface sampler, side-mounted bagging, NIRS
 - Sample definition
 - Pneumatic seed delivery
 - Transport to the grain tank
 - Transport to the sampler
 - Sampler

Separating the grain and air.

Efficient separation of the grain-air mix is crucial for the downstream process steps. Thanks to the patented airfoil separator, the grain can now be separated from the air in a gentle, fast and reliable manner in a compact space saving design. This innovative principle avoids circulating grain and a downward airflow which could influence the weighing results.

The same principle is also used in the airfoil separator for the sampler.



Airfoil separator

Grain flow monitoring.

Two built in radar sensors monitor the grain flow in the pneumatic seed delivery system. These sensors reliably detect seeds flowing past. On the one hand, this ensures the operator avoids intermixing between plots and, on the other hand, it helps to optimize the cycle time.



Radar sensor for grain flow monitoring

Bagging the plot.

In 2-man harvesting without harvest data collection, the plot sample is bagged at the side. A double bag holder with a switch lever enables the operators to work quickly and ergonomically. The small, height-adjustable bagging platform is suitable for smaller plot samples of up to about 10 kg. A large platform is available for larger plots. Bagging can also occur in the cab.

If the Quantum is equipped with a harvest data collection and sampling system the entire plot (up to a maximum of 15 kg) or a small sub sample is bagged in the cab. Taking of NIRS measurements is also supported.

Smaller quantities can also be bagged at the side, but sampling and NIRS measurement are not possible at the same time in this case.



Side bagging

Sample definition.

Sample definition with the Quantum is clear-cut and offers a wide range of options. The harvesting software's "Easy Sample" module is used to predefine what type of sample or what combinations of samples are to be taken.

Defining the sample volume is a simple, manual process that takes place at the side of the machine and does not require any tools. The following sample definition variants are supported:

- Small sample, 200 – 700 ml
- Large sample, 700 – 2000 ml
- Double sample (small and large sample)
- Time-controlled, plot-homogeneous sample (time-dependent quantity)



Sample definition

Time-controlled sample.

Sample definition using a time-controlled sample flap allows larger, plot-homogenous samples to be taken. Once a defined time has been preset on the onboard computer, a sample can then be taken by the operator using the sampler in the cab. The maximum sample size of the time-dependent sample is 20 liters. The repeat accuracy is approximately 5 %.



Time-controlled sample

Sampler.

Sampling is performed in the cab, in line with the sample definition. The operator initiates sampling at the push of a button. Alternatively, a foot switch is available to trigger sampling, thus leaving both hands free for handling the sample. If needed, the driver can enable or disable another sample type for the next plot.

Depending on the configuration, the Quantum has only one (large) or two sample outlets (small and large). Again, the operator can preselect the outlet at which the sample is to be taken.



Sampler in the cab

Sample storage.

The integrated sample storage located between the cab and the grain tank is an innovative and practical solution. It increases the Quantum's effectiveness enormously, without affecting the machine width and stability.

After bagging, the operator puts the samples into a box, which he or she conveniently places on a storage table for this purpose. Boxes of the size 400 x 300 x 210 mm are available. After filling the box, the operator opens a pneumatically operated

sliding door in the rear of the cabin, and deposits the box on the conveyor belt located behind it. The conveyor belt can hold a total of 5 standard boxes. When the conveyor belt is full, the outer side door with rollers is opened, and folded down, so that the boxes can be taken off one by one by actuating the conveyor belt.

It can also accommodate other box dimensions, provided the box does not exceed 400 mm (16") in width and 220 mm (8") in height.

Filled bags used in the bagging process can also be stored instead of boxes. The bags are deposited directly on the conveyor belt. The procedure for filling and emptying the conveyor belt is otherwise identical.



Integrated sample storage solution



Seed grinder.

The grinder ensures that harvested seeds are unable to germinate before they leave the field. The core components of the grinder are tried-and-tested industrial components. The V-shaped, toothed cracker rollers run at various speeds and boast high efficiency and effectiveness. They are hardened and designed for long-term use.

The spacing between the grinding rollers can be adjusted continuously and precisely, meaning that all common crops – from rapeseed and cereals to soy and maize – can be processed using the same rollers. The correct roller gap is monitored by the control system and dosed feeding of the grinder prevents blockages. Should a foreign body penetrate the system, the rollers are protected by a spring-loaded overload safeguard.

Grinder performance features:

- Proven, efficient grinding roller system that has been tried and tested in industrial applications
- Universal rollers for use with all cultures
- Adjustable roller spacing
- Seed destruction rate of over 99 %

Configuration:

- Available with or without straw chopper
- Integrated chaff spreader
- Integrated magnetic separator



Seed grinder

Other performance features and equipment options.

All of the Quantum's components are perfectly matched. In combination with the comprehensive range of available equipment, this results in a high-performance, efficient package. The compact height (2.97 m) allows the machine to be transported and transferred easily without individual components having to be removed.

Motorization.

The state-of-the-art, high-performance and lightweight Volkswagen engine is equipped with a diesel particulate filter and a diagnostics interface. Thanks to the engine's low fuel consumption and the large fuel tank, you can complete a long day's harvesting without refueling!

Grain tank.

The grain tank is filled pneumatically and has a capacity of 1100 liters. The patented airfoil separator achieves a high filling level compared to other machines.

Performance features:

- Electronic tank level gage
- Effective unloading height for vehicle heights of up to 3.2 m
- Very short unloading times (unloading speed of 10 l/sec)
- Easy to clean thanks to its floor flap



Grain tank and grain tank unloading

Wide range of accessories (options):

- WINTERSTEIGER has developed a four-wheel drive with integrated longitudinal and transverse differential lock (on the front and rear axles) for tackling steep slopes and harvesting on very wet ground. Easy activation from the operating panel in the

cockpit means that the traction and handling of the plot combine can be substantially improved at the push of a button.

- Terra tires to reduce the ground pressure
- Straw choppers for even distribution

of the harvested material across the entire cutting width. The straw chopper can be folded up if not needed.

- Grain loss is recorded by an acoustic grain loss sensor on the end of the cleaning sieve. The sensor can be adapted to various



4 WD



Straw chopper

crops and harvesting conditions. The amount of grain loss is displayed on the Quantum's onboard computer in the cab. If necessary, (e.g., when losing high amounts of grain) the machine operator can respond quickly and adjust the airflow.

- Bright LED work lights at the rear, and on the left and right sides
- The LED headlights with an impressive brightness of 1,500 lumens allow maintenance and adjustments on the combine to be carried out even when the plot combine is being operated late at night. The robust and watertight lighting with a high protection class (IP68 with additional IP69k) can be placed anywhere on the machine using the magnetic base.

- In addition to the rear-view camera, a multi-camera system for monitoring the surroundings of the combine or important components (e.g. grain tank, grain tank emptying, weighing system) is also available. Either 2 or 4 cameras can be installed, the images from which are displayed on an extra 7" monitor in the cab.
- A safety rail is available to allow servicing and cleaning tasks on top of the Quantum to be carried out safely. This rail can be folded out and folded away again quickly and easily, without increasing the transport height.
- The reliable desktop thermal printer with best-in-class printing speed allows the operator to assign the harvested plot to the field plan. In ad-

dition, important harvesting parameters can be saved using the barcode or QR code on the label.

- A lockable battery disconnecter, an extra-large air tank, and much more.



Rear-view camera



Safety rail



Multi-camera system



Desktop thermal printer

Suitability for multiple crops.

The WINTERSTEIGER Quantum was strictly designed for today's requirements in seed research, that is, it was designed to be able to handle multiple crops with ease. It therefore offers optimal equipment for any crop, short conversion times for crop changes, and easy cleaning.

Optimal equipment.

- Headers for virtually any crop
- A wide range of concaves and sieves for best possible adjustment to individual crop types
- A wide range of sampling options

Short conversion times.

- Headers can be changed in record time, thanks to an innovative 1-man conversion system.
- Modern, hydraulic couplings that don't leak oil and can be released under pressure
- The concave can be replaced quickly and easily.
- Sieves and shakers can be easily replaced or interchanged with each other.
- The concave distance and threshing parameters can all be hydraulically adjusted easily from the cockpit.



Fast header replacement



Center row threshing in corn (60 cm)



Excellent access

Center row threshing ability.

- Center plots of 125 cm can be harvested without restrictions.
- Corn and sunflower plots with 52 cm (24") row spacing or more.

Easy cleaning.

- Generously dimensioned and easy-to-open panels offer excellent access.
- The compressed-air equipment enables the machine to be cleaned quickly between crop changes.

Worldwide No.1
WINTERSTEIGER
in field research equipment.

From sowing to harvesting –
your partner in
field research equipment!

Fertilisation &
plant protection

Data
management

Sowing

Laboratory
equipment

Harvesting

Mobile collection of all your harvest data.

Precise and reliable collection and management of the harvest data takes top priority in field trials. WINTER-STEIGER therefore relies on future-oriented solutions in this area as well. Only state-of-the-art, high-performance systems specially developed for agricultural research are used in our harvesters.

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 control
- 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.

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



Trial is set up



Trials can be positioned on the field and processed

Harvest.

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

ponding results. The samples can also be labeled.



Harvest mode



Harvest mode



Simple navigation in the field



Convenient creation of notes

NIR system solution for crop analysis.

The presentation of the harvested material has a significant influence on the quality of the NIR analysis data. The important advantage of the NIR system solution is a result of the controlled passage of the harvested material past the NIR measuring head. This ensures that a representative analysis of the entire plot can be secured. The presentation of harvested material is suited for all kinds of crops from rapeseed to grain and legumes to

corn. Subsequently, the Easy Harvest crop software automatically allocates the NIR analysis information to the respective plot and stores the data.

As a standard, the WINTERSTEIGER NIR system solution is equipped with POLYTEC contact measuring instruments. Other NIR measuring instruments are available upon request.



NIR system solution for crop analysis

High-precision harvest data collection systems.

WINTERSTEIGER offers weighing and data collection solutions that are individually tailored to customer requirements. Here are the opportunities and benefits at a glance:

| | Classic GrainGage™ | H2 Classic™ |
|---|------------------------------|-------------------------------------|
| System | 3 chambers | 1 container |
| Number of weighing cells | 3 | 3 |
| Performance (plot yield x cycle time) | Small and medium plot yields | Small, medium and large plot yields |
| Evaluation (plot weights of up to 15 kg) | Partial measurements | Individual measurement |
| Evaluation (plot weights of over 15 kg) | Partial measurements | Multiple measurements |
| Weight measurement | ■ | ■ |
| Moisture recording | ■ | ■ |
| Moisture measurement to grain moisture | 35 % | 40 % |
| Hectoliter weight measurement | ■ | ■ |
| Data transfer to NIR systems | ■ | ■ |
| Use of Easy Harvest harvesting software | ■ | ■ |
| Operation with other harvesting software | ■ | ■ |
| Interface to other databases | ■ | ■ |
| Continuous harvesting of long plots | ■ | ■ |
| Slope and motion sensor to reduce errors caused by vibration or movement of the harvester | ■ | ■ |
| Weighing function for slope gradients of up to | 10 % | 10 % |

Classic GrainGage™.

This harvesting data system is perfectly suited for measuring the weight, moisture and hectoliter weight, and also for plot yields of 900 g or more, where best possible measuring accuracy is required. Best results are achieved by using the Easy Harvest software to deploy field maps, store measured data and export the resulting data.

The sequence is as follows during harvesting:

- The Classic GrainGage™ comprises a 3-chamber system. The first chamber is a holding hopper with a filling level sensor. Moisture and weight measurements are taken in the second and third chambers.
- Once the filling level sensor on the harvesting data system has sufficient material for weighing, the measurement starts automatically in the plot while the harvester is moving.
- At the end of the plot, the remaining material is then weighed.
- The individual sub-weights are added and the mean value of the acquired moisture data and the hectoliter weight are calculated.
- The data is stored on an industrial PC.
- If a sampler is present, labels can be optionally printed directly in the field.
- Manual acknowledgment closes the weighing cycle. You can then continue to harvest the next plot.

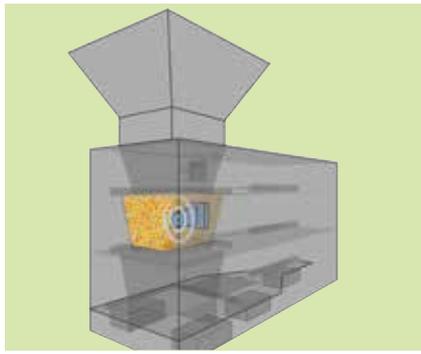
Technical data Classic GrainGage™

| Weighing system | |
|---|--|
| Dimensions (W x D x H) | 736 x 356 x 533 mm (29 x 14 x 21") |
| Capacity | 3.00 liters – approx. 2.5 kg wheat 1.50 liters – approx. 1.2 kg wheat 0.75 liters – approx. 0.6 kg wheat |
| Measuring precision | |
| Weight | Cycle accuracy: +/- 10 g (+/- 0,022 lbs) Plot accuracy (e. g. 6 cycles): max. +/- 60 g (max. +/- 0,132 lbs) |
| Hectoliter weight | +/- 1.25 kg/HL |
| Moisture | +/- 0.5 % – 25 % (wet weight basis – ww), +/- 0.9 % – 35 % |
| Minimal quantity for moisture measurement | At least a full partial weighing, 3.00 / 1.50 / 0.75 liters |
| Speed | Approx. 4 sec. per partial weighing |

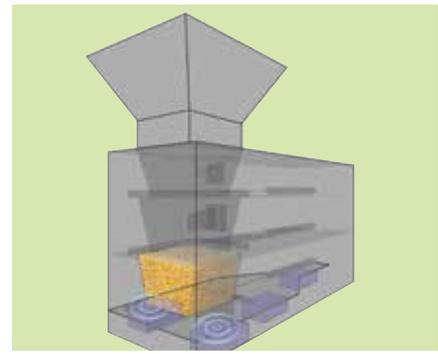
We reserve the right to make technical alterations.



Classic GrainGage™



Moisture sensor



Weighing cells

H2 Classic™.

This very compact harvest data collection system is ideal for widespread use with all crop types. It will work equally well with low-volume harvested material and small yields, and large-volume harvested material such as corn. Thanks to the generously dimensioned weighing bucket, the vast majority of plots can be recorded in a single weighing process, which guarantees extremely short cycle times. The wide range of sampling options can also be controlled on the Quantum by using the Easy Harvest software to manage field plans and to store and export collected data.

Performance features

- Fast process times with no stops: Intermediate storage makes it possible to enter the next plot before weighing has even been completed.
- Very fast measuring cycles
- Ultra-precise thanks to optimized vibration compensation
- Automated measuring of the plot weight, moisture level and hectoliter weight / test weight throughout
- Fill-level detection enables automated multiple measurements for large plot yields (> 15 kg, "Strip Mode").

Harvesting sequence:

- The weighing system comprises a weighing bucket, which in turn contains the required sensors for weight and moisture measurement.
- The harvested material is harvested directly into the weighing bucket.
- Once the maximum fill level of the weighing bucket has been reached, the remaining quantity is stored in the intermediate tank and weighed during the next cycle.
- The weighing cycle is actuated manually at the end of the plot by pressing a button.
- In the case of larger plot yields, the component weights are added.
- The data is stored on the on-board computer.
- If a sampler is activated, the sample is taken automatically; labels can be printed right away if desired.

Technical data H2 Classic™

| Weighing system | |
|---|---|
| Dimensions (W x D x H) | 380 x 460 x 480 mm (15 x 18 x 19") |
| Weighing bucket capacity | Approx. 19 liters (0, 54 bu), appr. 15 kg (33 lbs) in wheat |
| Moisture measurement capacity/ Test weight determination | 2.3 liters or 1.2 liters |
| Measuring precision | |
| Weight | Cycle accuracy: max. +/- 45 g (+/- 0,1 lbs) Plot accuracy: max. +/- 45 g (+/- 0,1 lbs) |
| Hectoliter weight | +/- 1.0 kg/HL |
| Moisture | +/- 0.5 % or grain moisture 0 % - 27 % +/- 1.0 % or grain moisture 27 % - 40 % |
| Speed/cycle time for 1 weighing process | <= 6 sec |

We reserve the right to make technical alterations.



H2 Classic™

Quantum

Figures. Data. Facts.

Technical data

| Basic machine/engine | | | |
|--------------------------------|--|-----------------|-----------------|
| Volkswagen 2.0 l Diesel engine | 55 kW (75 HP), 4-cylinder, water-cooled | | |
| Torque | 240 Nm | | |
| Fuel tank capacity | 100 l | | |
| Range | Approx. 12 hours in harvesting mode | | |
| Ground drive and tires | | | |
| Hydrostatic ground drive | 2-stage: infinitely adjustable 0 – 12 km/h and 0 – 25 km/h with standard tires | | |
| Steering | Hydraulic | | |
| Front tire variants | For center row threshing | Standard | Terra |
| Type | 250/80-18 | 285/80-R16 | 400/55-17.5 |
| Tire width | 240 mm (9.5") | 298 mm (11.75") | 400 mm (15.75") |
| Track width | 1200 mm (48") | 1271 mm (50") | 1391 mm (55") |
| External wheel width | 1440 mm (57") | 1569 mm (62") | 1791 mm (71") |
| Rear tire variants | For center row threshing | Standard | Terra |
| Type | 6.5/80-12 | 23x8.5-12 | 23x8.5-12 |
| Tire width | 165 mm (6.5") | 211 mm (8.5") | 211 mm (8.5") |
| Track width | 1163 mm (46") | 1183 mm (47") | 1183 mm (47") |
| External wheel width | 1328 mm (53") | 1394 mm (55") | 1394 mm (55") |
| Ground clearance | 250 mm (10") | | |
| Wheel base | 2600 mm (102") | | |
| Turning circle diameter | 9000 mm (354") | | |
| Header and accessories | | | |
| Header | 1250 mm (49"), 1500 mm (59"), 1750 mm (69") | | |
| Cutting height adjustment | Hydraulic | | |
| Horizontal reel adjustment | Hydraulic | | |
| Reel | Optionally 4- or 5-part | | |
| Reel speed | 15 – 50 rpm | | |
| Cut height | Up to +1050 mm (41") | | |
| Corn header | 2-row: 60 and 75 cm (other row spacing on request), optionally with chopper | | |
| Grain collection and transport | | | |
| Bagging | Side mounted or in the cab | | |
| Sampling | Dosing container 200 – 700 ml and/or 700 – 2000 ml, additional time-defined samples, single or double sample outlet in the cab | | |
| Grain flow monitoring | Radar sensors in the conveying lines | | |
| Grain tank | 700 or 1100 l (20 bu or 30 bu) | | |
| Grain tank emptying speed | 10 l/s | | |
| Overhead loading height | 3200 mm (10' 6") | | |
| Threshing and Cleaning | | | |
| Concave | 10 concave bars | | |
| Threshing drum | 6 beater bars | | |
| Threshing drum diameter | 400 mm (15.75") | | |
| Threshing drum width | 800 mm (31.5") | | |
| Concave wrap angle | 117° | | |
| Concave adjustment | Hydraulically from the cab | | |
| Concave area | 0.35 m ² (3.76 sqft) | | |
| Threshing drum speed | 240 – 1680 rpm, infinitely adjustable | | |
| Shaker | Cleaning area 1.5 m ² (16 sqft) + short preparation floor | | |
| Cleaning sieve | Cleaning surface double sieve: 1.5 m ² (17 sqft), gross 1.6 m ² Cleaning surface single sieve: 0.75 m ² (8.5 sqft), gross 0.8 m ² | | |

| | |
|---|---|
| Cabin | |
| Noise level | 76 dB(A) |
| Certification | Tested according to EN 13531 |
| Steering column | Height and tilt adjustable |
| Air-conditioning system | 8 kW |
| Operation and sequence control | |
| Operating display | Color display with intuitive operator guidance |
| Sequence control | Semi- or fully-automatic sequence control with STOP-GO, header and sieve cleaning, weighing and sampling control |
| Options | |
| All-wheel drive | 4 WD with a longitudinal and transverse differential lock |
| Integrated sample storage system | For 5 boxes (300 x 400 mm), maximum box size 400 x 600 mm; also suitable for storing bags (approx. 150 l) |
| Weighing systems | Harvestmaster Classic GrainGage, Harvestmaster H2 Classic |
| Additional options | Sunflower equipment, NIR system solution, straw chopper, road permit, row crop header, roller mill, grain loss display, working lights, rear-view camera. Other options available on request. |
| Dimensions | |
| Dimensions | Length: starts at 5700 mm (225") incl. header with crop divider Width: starts at 1500 mm (59", center row treshing), max. 2250 mm (89") Height: 2975 mm (117") |
| Weight | Starts at 3950 kg (8700 lbs), incl. cab and header |

We reserve the right to make technical alterations.



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



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