

ZÜRN

HARVESTING



FIELD RESEARCH TECHNOLOGY



The universal plot combine
ZÜRN 150



FIELD RESEARCH TECHNOLOGY

Plant breeding

Agriculture has made great advances in recent history. Although land and labour used in farming declined, agricultural yields have increased substantially.

This success is attributed to the more targeted application of nutrients, to a modern approach to crop protection and especially to the breeding of more productive and site-specific varieties. A pivotal role in breeding has been played by field research and scientific trialling.

Trial engineers around the world are supported by **ZÜRN** in their day-to-day work, because we supply the equipment and services they need for their work.

Our story began in 2004 when former staff of manufacturer Hege injected into **ZÜRN** the idea of developing a powerful plot combine.

Today, we offer the full range of equipment and services for agricultural field research. Every single day, we are striving to improve our products and tailor them to your specific needs.

We are at your service all over the globe

Your strong partner for field trial equipment

Trial plot equipment made in Germany

In 1963, Dr Hans-Ulrich Hege made an invention that revolutionised the world of agricultural field research. Soon afterwards, the first plot combine that produced clean and uncontaminated grain samples left the domain Hohebuch and was dispatched to the trial operations around the world.

After undergoing continuous development and evolving to the current state of the art, the Hege system lives on in the form of powerful and reliable plot combines from **ZÜRN**.

More than 60 years later, **ZÜRN** returned to the original Hege site to resume the development and manufacture of field trial equipment. This way, the domain Hohebuch continues to be the reliable partner of field research technicians around the world.

THE DOMAIN HOHEBUCH



The universal plot combine

Compact design. High throughputs. Multiple options.

Your plot combine for the most accurate trial results

The universal plot combine **ZÜRN 150** is a reliable and well-proven powerplant. Compact by design, the **ZÜRN 150** delivers high throughputs even in high-yielding plots.

The machine is available with a large number of options for adaptation to specific applications.

We manufacture each machine to your individual needs. Choose from various header widths, cab specifications, grain tank and sample storage options.

Our weighing systems offer custom solutions for plot weight, test weight, moisture metering and NIRS analysis. In addition, a plot management system is available that harvests useful data along with the crop.

YOUR ZÜRN BENEFITS

- ▶ A universal plot combine in compact dimensions.
- ▶ Enormous output and drive power even in high yields – for maximum time savings in plot combining.
- ▶ Excellent cleanliness of the grain sample for uncontaminated results and minimum grain loss.
- ▶ Well-proven and reliable functionality that is based on the longstanding experience of Hege.
- ▶ Customised to your individual needs - developed and produced in Germany.
- ▶ Straightforward maintenance and fast service thanks to the use of standard and generally available components.

Hege System



Matured designs and top-notch performance

Stand-out features



The cab

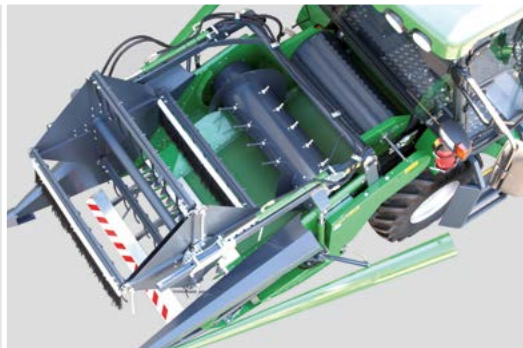
◀ The modern cab echoes an intelligent use of space that translates into maximum and driver and operator comfort and smart solutions for sample logistics. All controls and the multifunction lever are ergonomically integrated in the armrest.

The cleaning system

▼ The separation takes place on a large surface shaker with three steps. The double sieve system with a top and a bottom sieve produces a very clean grain sample. The sieves are removed without the need of tools and within seconds for quick access to all service points. A quick-release system is available as an option for the surface shakers.

The header

▶ The universal header with conveyor belt, intake auger and feed roller feeds the straw in an optimal line to the threshing system. The pneumatic clean out system with continuous air flow assures a mix free plot harvest.



Weighing, analysing, sampling

◀ A choice of weighing systems is available to offer customised solutions for the recording of yields, moisture levels, test weights and NIRS analysis information.

▶ The sampling system allows researchers to obtain reproducible and clearly defined samples. It also offers additional bagging functions that are operated from either the cab or the ground.



Your power plant

Dependable. Efficient. Compact.



YOUR BENEFITS AT A GLANCE

- ▶ The straightforward base design guarantees maximum reliability
- ▶ The intermixing-free design produces clean and uncontaminated samples
- ▶ The modern cab is laid out to a new concept and offers ergonomic workplaces for the driver and operator
- ▶ The universal belt header features a pneumatic clean out system for uncontaminated samples from every plot
- ▶ Maximum torque on the threshing system thanks to the direct driveline straight from the engine to the drums
- ▶ Largest cleaning area in this power bracket featuring a double-sieve system and fast clean-out
- ▶ Easy to adjust cleaning system by a high-airflow drum blower
- ▶ Modular weighing system for fast plot cycles
- ▶ Flexible sampling options – from averaged and representative samples to bagging the yields of entire plot
- ▶ Powerful Yanmar engine with generous torque reserves
- ▶ Efficient driveline consisting of as few as 6 belts and hydraulic drives
- ▶ Minimum service and maintenance – only a few grease points and long service intervals; use of regular and John Deere parts
- ▶ Low machine weight despite premium-level specification


Made in Germany

For a reliable plot harvest

Technical details

The comfort cab

Very spacious cab with air conditioning, air-sprung comfort seats for driver and operator. The integral multifunction armrest houses all controls and gauges. Joystick-controlled threshing and machine functions. Certified occupant protection (TOPS). Low noise-level cab (76 dB(A)).

The sampling system

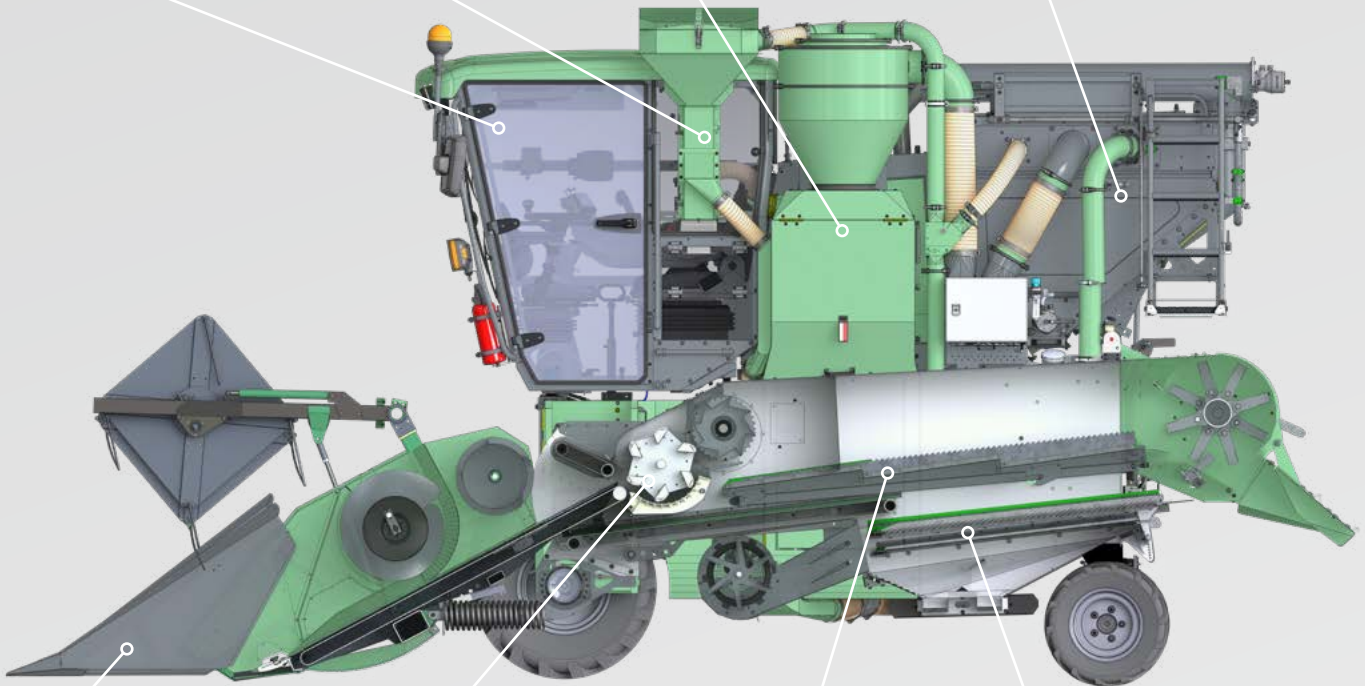
This system offers a combination of representative and defined sampling and an extra bagging function from either inside or outside the cab. Integral dust removal. Various sample storing systems available.

The weighing system

Modular system consisting of a cyclone (pre-hopper), pull-out weighing unit, collecting hopper for setting up the sample volume, ready for test weight, moisture sensing and NIRS analysis. Plot management system (ZÜRN WIESEL, HarvestMaster, Schlingmann and custom solutions).

Grain tank and grain transport

600l, 800l, 1,100l grain tank volume; unloading auger with an up to 3.60m unloading height. Proven system of drawers for easy and fast grain tank clean-out. Pneumatic grain transport and two powerful injectors inside the cleaning shoe.



The header

Cutting table with conveyor belts and pneumatic cleaning with compressed air. Hydraulic-drive cutting system, auger with retractable tines, crop feed roller, feed belt, 4-section reel. Optional crop feed reverser. Cutting widths: 1.25 / 1.50 / 1.75 / 2.00 m.

Threshing system

800mm threshing width, 350mm diameter threshing drum, 6 rasp bars. Concave: 10 bars, 118° wrap, 0.31 m² separation area, 4 de-awning bars. 8-section straw beater.

Straw walker

One full-width surface shaker 3 steps, 1.8m² separation area. A quick-release system is an option.

The cleaning system

Hydraulic fan (radial fan). Double sieve system with tool-free quick-change system (top sieve: adjustable lamella sieve, bottom sieve: round hole sieve); total 2.1m² sieve area

Dimensions

Length: approx. 5,100mm (without dividers)
Width: from 1,300mm
Height: from 2,850mm incl. cabin
Weight: from 2,350kg

Engine and drive

Powerful 4-cylinder Yanmar Diesel engine (water cooled), 3.3-litre displacement. Stepless hydrostatic transmission with two speed ranges. Optional 4WD and diff lock for optimal traction.

The comfort cab

An ergonomic workplace



A new sense of space

The new comfort cab on the **ZÜRN 150** provides a unique experience in terms of space and legroom for drivers and operators. Air-sprung comfort seats and an effective air conditioning system make this platform a pleasant workplace where you can spend long and fatigue-free hours. The multifunction lever and all other controls are ergonomically arranged in the armrest.

Convenient driver seat with adjustable multifunction armrest

The comfort cab is designed for working long and fatigue-free hours. The comfy driver and operator seats are available with mechanical or pneumatic suspension. All controls are ergonomically arranged in the armrest of the driver seat for easy reach and convenient operation.



The multifunction lever

The multifunction lever controls the header functions, the fast clean-out and the hydrostatic drive. Further functions, such as cycle control, are operated directly from the drive lever.



The slim steering column

The slim steering column ensures an unobstructed view of the header and feed belt. You can easily adjust it to your preferred angle and height.



Smart use of space

The new cab was designed with the operator in mind. The rectangular layout and the straight front window translate into the most efficient use of the available space. After receiving the integrated armrest, the driver seat moved further to the right, which created more space for an operator seat and storage space for the sample kits.



Mounting rail

The armrest houses all controls and gauges. Further instruments can be attached to the adjustable bar which mounts between the A and B posts on the right-hand window. This way, drivers have all major machine data at their fingertips at an all-round visibility through the large windows.



Certified occupant protection (TOPS)

Your safety is our top priority. Occupant tip-over protection was a key issue when developing the new comfort cab. So, we had the cab tested by the DLG test centre to the ISO 12117-1 and OSHA 1926 TOPS standards, to which it is certified now.

After all, it is not always possible to avoid all hazardous situations in the field or during unloading. These certifications are unbiased and independent confirmations of occupant safety and safety in emergency situations.



Effective air con

The powerful air conditioning system keeps the temperature inside the cab pleasantly cool even in very hot weather. Before entering production, the system had to pass comprehensive endurance tests in the environmental chamber which were followed by countless harvests in the hottest regions around the globe.

The comfort cab

An ergonomic workplace



Smart sampling

The sampling system offers various options for taking defined and averaged samples as well as a bagging facility that handles the yields of an entire plot. The system is simple by design and offers straight forward and comfortable use by the operator. At the same time, it is also easily accessible from the driver's seat.



Convenient workplace and plenty of leg room

This cab is a spacious workplace that offers plenty of legroom for all occupants. Naturally, on the **ZÜRN 150**, the operator, too, is seated on a convenient seat with either a mechanical or pneumatic suspension system.



Dust-tight

The cab offers operators and drivers a dust-free workplace that is effectively sealed off the sampling system by dust-tight flaps. In addition to that, the sampling unit features a dust extractor which eliminates the ingress of dust into the cab and occupant exposure.



Sample storage

The samples can be stored in large, up to 60cm by 40cm boxes which are stacked on the foldable platform beneath the sampling unit and then removed conveniently through the side windows.



Convenient access to the cab

The ladder can be angled for convenient access to the wide door and folds back to vertical for combining middle strips. Handrails all round offer safe climbs.

Practical details



Reliable fixing points

The **ZÜRN 150** stands out for various details that make a difference, including cab filters that are replaced without the need of tools and many handles for safe window cleaning.



Flat cab floor

The **ZÜRN 150** cab floor is plane and flat with insulated rubber mat. Cleaning the cab is very easy and fast, thanks to the folding window on the right and the absence of a threshold.

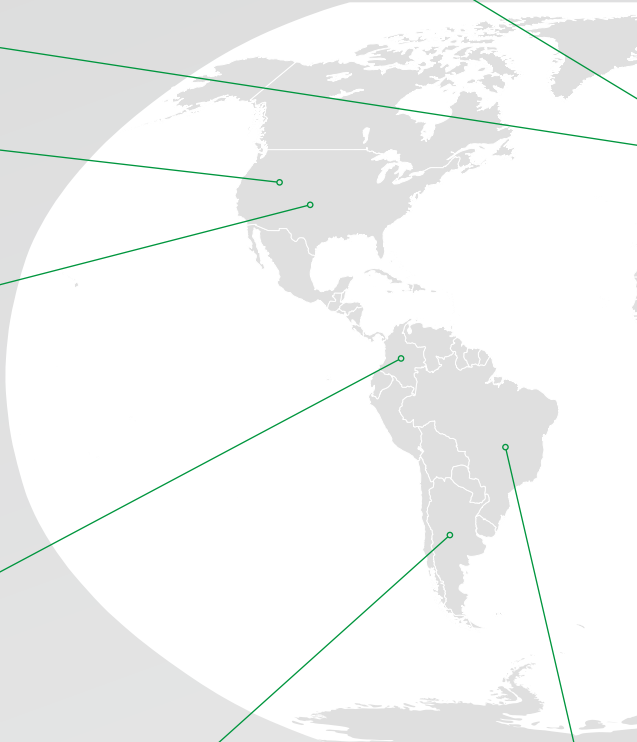
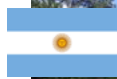


Full-length handrail

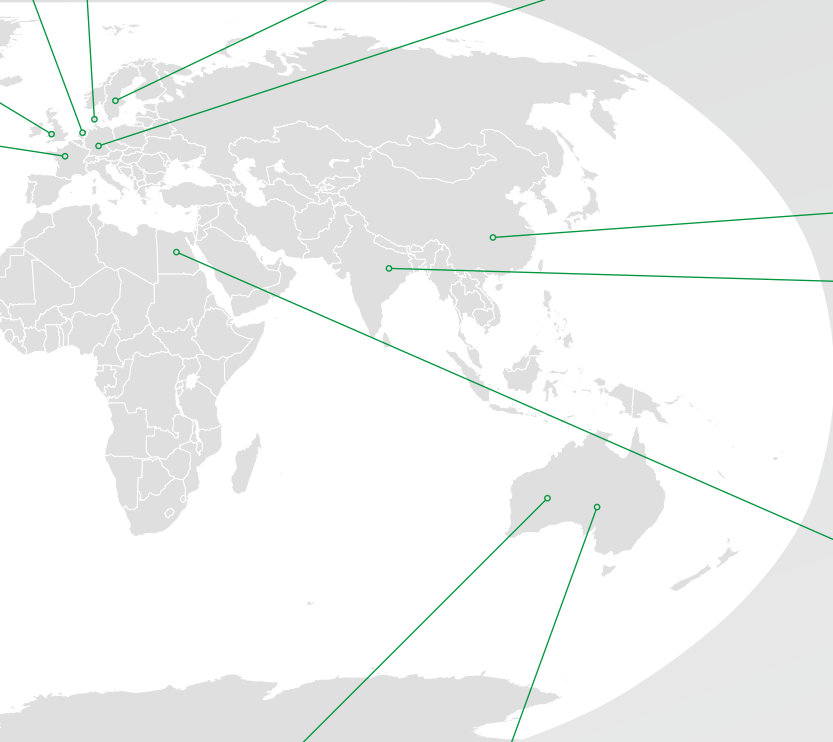
As you dismount, your hand glides down the full-length handrail instead of reaching for another handle.

"Made in Germany"

Globally proven



The **ZÜRN 150** has proved its worth in challenging situations and heavy going around the world. It comes with multiple options and customised specifications which make it a universal machine for many different applications. The machine is backed by a team of qualified service engineers who provide a timely and high-quality aftersales service. Many parts are standard parts and readily available even in the most remote parts of the world. This way, the **ZÜRN** plot combines are at home everywhere in the world, in any types of crops and in any field conditions.



From seeders to harvesters

The extensive Zürn product range

Plot combines



ZÜRN 110 plot combine



ZÜRN 130 plot combine



ZÜRN 150 plot combine



ZÜRN 160 plot combine



ZÜRN 130-ST stationary thresher



ZÜRN WIESEL weighing system

Plot seeders



ZÜRN D62 Plot seeder with belt cone



ZÜRN D82 Plot seeder with belt cone



ZÜRN D82-3 Triple plot seeder



ZÜRN D90 Single-row seeder with magazine table



ZÜRN D92 Single-row seeder with magazine table



ZÜRN D96 Transversal seeder



ZÜRN D72 Heavy no-till plot seeder



ZÜRN D82-AXL No-till plot seeder



Tool carrier



ZÜRN 540 High-clearance tool carrier

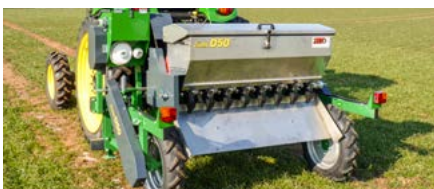


ZÜRN 550 High-clearance multifunction tool carrier



ZÜRN 570 Dual-plot tool carrier

Top work equipment for trial plots



ZÜRN D50 Fertiliser spreader with hopper



ZÜRN D51 Plot spreader



ZÜRN D55 Pneumatic plot spreader



GARFORD Plot hoe



ZÜRN 700 Weighing-sampling unit

Your reliable partner for field research technology

Agriculture has been our passion since 1885



Agricultural field trial equipment

We offer the full range of equipment and services for agricultural field research. Every single day, we strive to improve and customise our products even further.

The requirements on quality and service are our challenges and standards - every day. Trust in a true partnership and benefit from more than 135 years of experience in agriculture and passion for farm machinery.

Zürn Harvesting GmbH & Co KG

Field Research Technology

Domäne Hohebuch 5 · 74638 Waldenburg · Germany
Tel.: +49 (0) 7942 94736-0 · info@zuern-harvesting.de

www.zuern-harvesting.de

This brochure is available worldwide. Some illustrations and texts may show and contain information on optional equipment. Photos or illustrations may show superseded equipment. Further information is available from your local dealer. Zürn Harvesting reserves the right to change specifications and designs shown in this brochure without notice.

ZÜRN
H A R V E S T I N G

