

ZÜRN
HARVESTING



ZÜRN PREMIUM FLOW 700PF

The high-performance belt header



DISTRIBUTED BY



JOHN DEERE



The new PREMIUM FLOW is now even better

Our new PREMIUM FLOW 700PF represents a totally re-engineered generation of belt headers that take header performance to a new level.

These headers combine the massive intake auger with conveyor belts that feed the material actively into the machine ensuring a perfectly consistent crop flow to the threshing system. What's more, converting the header from cereals to rapeseed takes as little as three minutes.





Maximum Capacity in all Crops and Conditions

The superior header

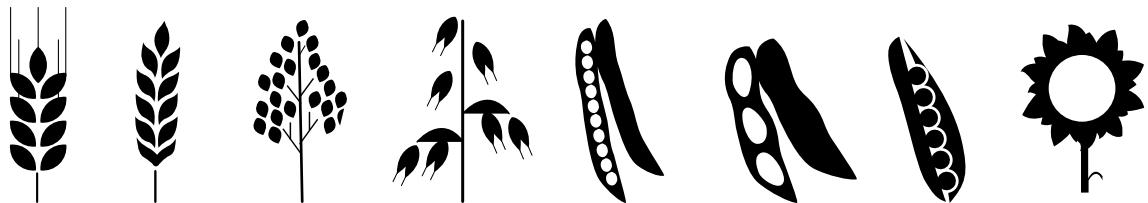
The PREMIUM FLOW belt header is the perfect solution for harvesting your valuable crop with speed and reliability.

As modern combines have enormous capacities, it's a special challenge to ensure a consistent crop flow to utilize these capacities to full potential.

This is what you get from the PREMIUM FLOW header with active crop feed from the cutter bar to the intake auger – a technology that leads to a significant boost in your productivity.

With the PREMIUM FLOW header, you can take your combine to the limit of its performance.

MORE PERFORMANCE



What you want from a high-performance header:

- Maximum outputs and flexible use in all crops
- Perfect feeding - even in difficult conditions Improved intake of lodged grain, rapeseed, peas, and grasses
- Active crop feed from the cutter bar to the intake auger for maximising machine capacity.
- Extremely consistent crop feed to the threshing system, reduced load peaks and less wear on the drives
- Easy and fast conversion from rapeseed to cereals and vice versa
- Great operator comfort during long working days – no table adjustment in varying conditions
- Maximum productivity from high outputs per day and harvest campaign
- Reliable performance, minimal daily servicing

A Combine's Performance Begins at the Header

Top-of-the class functions for maximum versatility

A perfect crop flow on the header is fundamental for high throughputs. The active crop flow on the PREMIUM FLOW is the formula for achieving an optimum feed to the threshing system at all times.



Optimum crop flow in all harvesting conditions

Multiple rubber belt elements feed the material in a consistent flow to the threshing system, ensuring the combine operates at full potential. Each of these belt elements is mounted on separate bearings.

Low-maintenance belt elements

The improved belt element technology offers the benefit of reduced weight. The space between the individual belts is sealed by rubber lips for minimum service and maintenance.

Hydraulic belt drive

The infinitely variable hydraulic drive allows operators to adjust the belt speed conveniently to suit individual crops. For example, the speed is easily reduced or the harvest of rapeseed or sunflowers.

Precision cut at high working speed

The unique Schumacher cutting system with finely serrated knife sections that are guided by rollers and mounted in a face-up/face-down arrangement produces a perfect cut at reduced input power. The sections are bolted individually to the knife for easy replacement.



ACTIVE CROP FLOW



Ideal reel position within a large setting range

The optimized geometry of the reel arms allows the reel to be used in front of the cutterbar as well as over the auger. The open ends and open spider frames give operators the best possible view of the knife, crop dividers, and grain lifters.

Massive intake auger

The new multi-finger intake auger measures an enormous 76cm in diameter and has 17cm flights which translate into ultimate combine efficiency, an aggressive infeed and a perfect flow to the threshing system.

Hydraulic auger height adjustment

Thanks to its hydraulic height adjustment, the intake auger delivers an optimum crop flow (also in very long material).

Quick crop conversion

The side knives are quick and easy to fit. The slim design and the low-vibration mechanical drive minimise shatter losses. No further conversions to the table are necessary when changing over to rapeseed.



Comprehensive standard specification

The PREMIUM FLOW gives you maximum flexibility. The standard specification model comprises a fully-fledged rapeseed kit, grain lifters that are stored on the back of the header, short and foldable crop dividers, a spare knife and a practical tool box. The base specification 700PF model also features work lights and reel tines made from composite material.



Parts on demand

The Zurn PREMIUM FLOW headers form an integral part of the John Deere product range. That means you benefit from continuous quality control and full warranty cover. You also benefit from the worldwide John Deere sales network for dependable parts supply and fast service.

Boosting your Harvest Performance

The new 700PF header generation

The new PREMIUM FLOW 700PF series high-performance belt headers take the superior header technology with active crop feeding to a new level.

The PREMIUM FLOW impresses by virtue of even more performance, even less maintenance and even higher reliability.



BENCHMARKS



PREMIUM FLOW delivers the optimum at all times

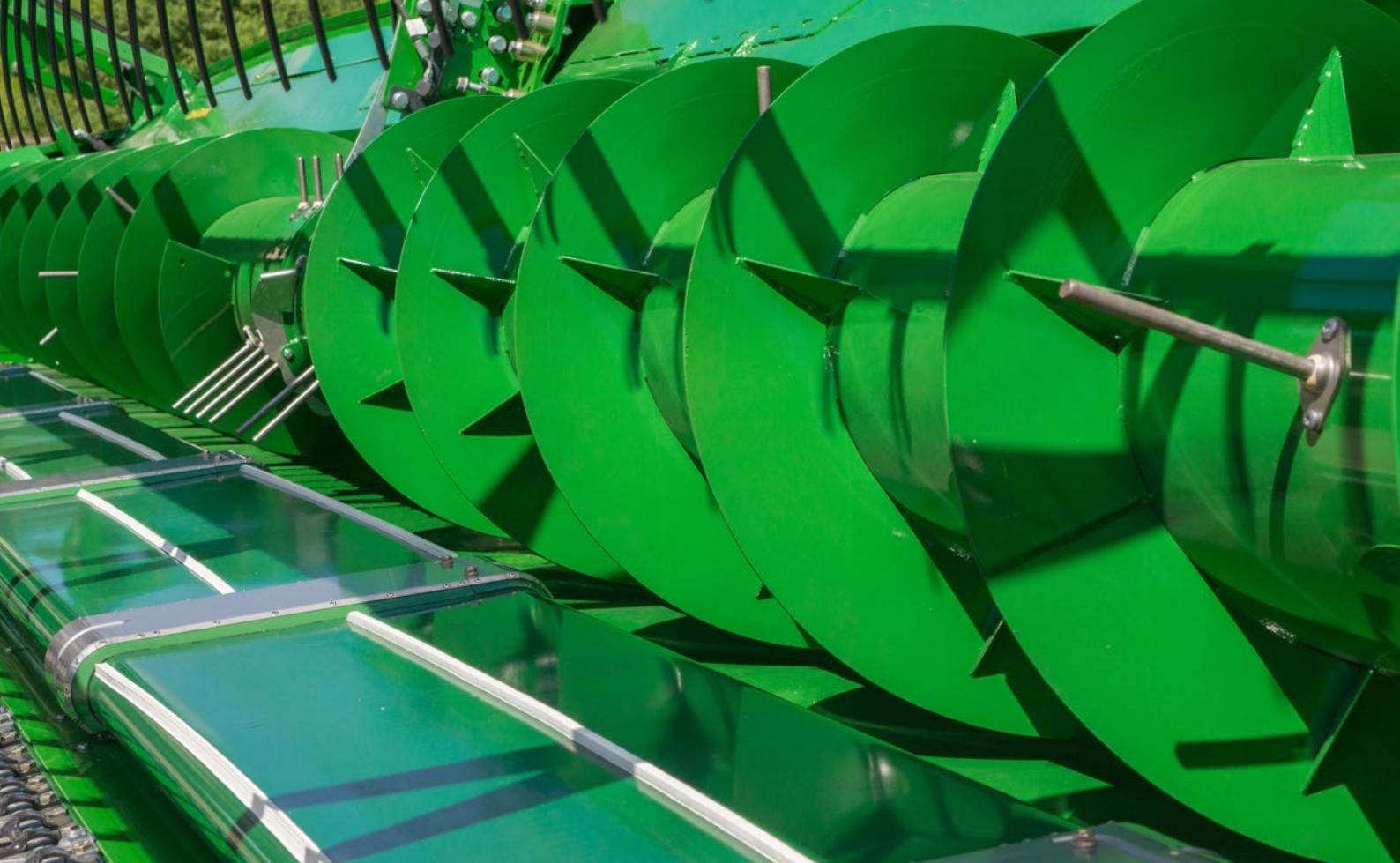
Harvest windows get shorter, and changeovers from one crop to another become more frequent as new varieties move in.

This is the scenario in which PREMIUM FLOW delivers optimum results – in any crop and without time-consuming table conversion.

The active crop flow on the long table requires less reel use and ensures the auger collects cut material only, thereby minimising losses.

PREMIUM FLOW is the ideal header for cutting laid crops. Also, its belts feed short material effectively from the cutter bar to the auger.

At the same time, the generous 100cm distance from the cutter bar to the auger ensures long material is fed ears first for effective threshing.



A new dimension – the new 700PF series



New lightweight frame for superior stability

The new and strong yet lightweight frame allowed us to redesign the geometries of the feeding elements – for a perfect crop flow from the cutter bar to the intake auger.



New XXL intake auger

The massive 76cm auger offers plenty of space for the crop – for unprecedented results in high-yielding crops and thick rapeseed.



Optimum crop flow to the auger

Mounted at a shallower angle, the innovative belts optimise the crop flow to the auger – for even higher throughputs and an even better crop flow.



Crop conversion in record time

Changeovers to rapeseed can now be performed without tools, and even faster too. Simply hook up the new and extra-light side knives. Then pump up the auger. Done. In just three minutes.



Low-maintenance belt elements

The belt elements have long and narrow drawers that collect the debris, thereby minimising the need for service and maintenance. The automatic tensioner ensures they are always properly tensioned and perfectly guided.



Lift the auger up in seconds

To change the auger position for harvesting rapeseed, simply pump it up hydraulically. No tools required and it takes just a few seconds – thanks to a new drive geometry.



Stepless belt drive

The belts are driven hydraulically and the speed is controlled steplessly for perfect adaptation to different crops.



722PF - 740PF

The new PREMIUM FLOW headers for all John Deere combine harvesters are available in working widths from 6.70m (22ft) to 12.20m (40ft).



Simple, robust and reliable

The Zürn side knives dispense with extra electric or hydraulic drives. The absence of a motor on the top of the knife reduces its weight and unnecessary vibrations – the perfect setting for minimising losses.



Attaching the knives is child's play

Weighing in at just under 15kg, the Zürn side knives are particularly lightweight and easy to attach and remove.

Read the full profi driving impression
and watch the online video:
premiumflow.zuern.de



profi driving impression

"Converting the header to rapeseed [...] is almost child's play. The massive intake auger is raised simply by operating the pump on the back of the header. You don't even have to release the tensioner of the drive chain for that. Then you fit the [...] side knives, which may take some muscle power but not a lot of time.

The crop dividers are unlocked and unhooked without any need for a tool, and the double knives simply take their place. Excellent! Better still, neither the electric nor the oil lines need coupling, because the knives are driven mechanically by a simple but ingenious overload clutch."

German profi magazine on agricultural machinery (10/2017): "An even bigger appetite" was Hubert Wilmer's impression after driving the Zürn PREMIUM FLOW 735PF.



Changing Over to Rapeseed in Record Time

One header for all

The PREMIUM FLOW makes changeovers from rapeseed to grain and vice versa a doddle. Stored on the back of the header, the rape knives can be fitted any time anywhere.

Switch to rapeseed in just three minutes now.

Simply replace the dividers with the mechanical knives. Then raise the auger and select the belt speed. Done. No tools required.

MAXIMUM FLEXIBILITY



Changeovers without tools

Changing over to rapeseed can be done without any tools at all and within a record time. The dividers and tips are removed just by opening a quick tensioner.



Practical storage

The knives and dividers are stored on the back of the header, where they are readily available for fast attachment.



Mechanical driven side knives

The two side knives are hooked to the header and locked in one operation. This also connects the mechanical driveline.



Quick auger adjustments

As a last step, quickly raise the massive auger. This is an easy job, thanks to the manual hydraulic pump, lifting the auger is done within seconds and without tools.

The fast and easy way of servicing

Perfect interaction of all components

PREMIUM FLOW presents a significant upgrade to belt header technology. The new seals minimise the ingress of debris and, as a result, the need for daily checks and cleaning.

The active material feed technology of PREMIUM FLOW ensures that the crop is swiftly fed into the machine, ears first, for effective threshing. This reduces load peaks and wear on the drives and boosts reliability.

MAXIMUM RELIABILITY



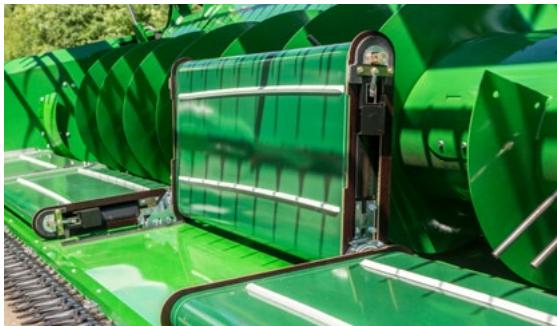
Effective seals

Tailored rubber sealings on stainless steel covers between the belts prevent ingress of debris and reduce maintenance requirements. The individually foldable belt elements provide best access for cleaning and servicing.



Fool-proof

Handling the individual belt elements is fool-proof, because the belts are tensioned automatically for optimum performance and long belt life. Debris collects in the drawers which can be easily pulled out.



Easy service and maintenance

The drives and bearings are low maintenance and easy to access. The belts also act as integral stone protection for the header.



Stepless drive

The rpm of the hydraulic belt elements can be adjusted infinitely. This is a one-time adjustment when you change to a different crop (e.g. from rapeseed to sunflower) and is easy to perform, using the valve conveniently located on the back of the header.





The multicoupler

The multicoupler is maintenance-free, connects all electric and hydraulic lines in one operation and automatically locks the header onto the combine. Attachment and removal is a matter of seconds.



Slim side panels

The new drive units are compact and simple by design, which means that the new side panels are also slim. The new contours allow the combine to move through the field without damaging the crop.



Optimum reel geometry

Thanks to optimised reel arm geometries, the reel adjusts over a large range for optimum adaptation to the specific conditions in rapeseed (move reel all the way backwards) and laid crops (move reel all the way forwards).



The perfect cut

The Schumacher knife with double guards can be relied upon to produce consistently perfect cuts, because the knife sections receive individual guidance from standard rollers, which also translates into a long service life.



Comparing headers

Seasoned PREMIUM FLOW operators have been convinced for a long time that the Zürn belt header is better than any other header:

"The tougher and more varying the conditions get – where other headers reach their limits – that's where PREMIUM FLOW comes into its element."

- Going strong in varying conditions, the active feeding of PREMIUM FLOW delivers premium results where variable tables have nothing to offer – in conditions where crops are lodged on one side of the header and standing on the other.
- Greater operator comfort during harvest days – no table adjustment in varying conditions.
- Universal header for all crops and harvest conditions.
- Fast changeover to rapeseed
- Up to 15% higher combine output over variable header technology – thanks to the superior crop flow

Suits multiple crops and conditions	Standard header with Zürn header extension	Header with extendable table	Zürn PREMIUM FLOW header
Uniform crop flow in			
short and sparse straw	+	+	++
average straw lengths/masses	+	+	++
long straw, tall rapeseed	++	+	++
Harvesting laid crops			
	○	+	++
Adapting to varying harvest conditions			
	○	+	++
Suitable for			
Cereals	+	++	++
Rapeseed	++	+	+
Beans, peas	○	○	+
Grass seeds	○	○	++
Conversion to rapeseed			
	+	+	++



A Cut Above the Rest

The perfect choice in all crops, yields, and conditions

The huge advantage of the active crop feed becomes clear when conditions turn nasty and crops are down or difficult to harvest such as peas and grass.

PREMIUM FLOW delivers optimum results no matter the conditions along the cutter bar, gathering the plants perfectly across the full work width.

This excellent performance is achieved by a table that is long (distance from the cutter bar to the auger) to handle tall, standing material, but also short because belts are actively feeding short and lodged crops.

PERFECT FEEDING

Award winning innovations

The immense advantage offered by PREMIUM FLOW harvest technology was also acknowledged by the Agritechnica innovations commission, an independent body of experts. The world's leading trade fair on agricultural machinery has presented Zürn with two awards in the past.

The impressive technology of the PREMIUM FLOW header was awarded a silver medal in 2005 and the electrically-driven Zürn i-FLOW a silver medal in 2015.



The 2005 silver medal for the superior header

PREMIUM FLOW presents a significant upgrade to existing belt header technology, and has earned Zürn a silver medal.



The 2015 silver medal for the intelligent header

The intelligent Zürn i-Flow header generation was developed from PREMIUM FLOW 740PF technology. All drives on this innovative header are electric.

Taking Harvest to a New Level

The perfect header for your high-capacity combine.

Wider headers boost your work rates and acreage per day and allow for slower ground speeds and less field traffic. On top of that, they ensure a more uniform crop feed into the combine.

PREMIUM FLOW 740PF takes your combine to an absolutely new level of performance. Working at 12.20m, this high-capacity belt header is the perfect match for your high-end combine. Its active crop feed system presents the material in an absolutely consistent flow to the threshing system and enables you to push your combine to its limits with confidence.

This is what you expect in terms of efficiency and results.

UNRIVALLED EFFICIENCY



Generous working width

Giving an effective cutting width of 12.20m, the PREMIUM FLOW 740PF is the header for unprecedented acreages. If specified with AutoTrac, it blends perfectly into controlled traffic farming (CTF).



Lightweight frame

The new lightweight framework with a floor made of special composite materials and the lightweight belt elements all reduce the weight by 15 % in comparison to conventional designs.



Unrivaled crop feed

The centrally supported XXL auger with hydraulic height adjustment produces highly effective crop feed and maximises throughputs. In this regard, it is matched by the split knife that is powered by synchronised drives.



Sustained reliability

The patented BendProtect system protects the cutting system from bending. This cutter bar is made to last for many harvest seasons, ensuring consistently clean cuts low to the ground and effective gathering of laid crops.





Convenient handling – safe transport

Our complete range of header transporters

A good trailer is essential to achieve a fast-to field changeover without damage to combine or header.

The rugged header transporters from Zürn always deliver your headers speedily and safely to the field.



CONVENIENT TRANSPORT



The transport solution to match

Our extensive range offers the right header transporter for each header width. The supports are customised to accommodate the PREMIUM FLOW, ensuring convenient attachment and removal.

Quick and safely to your destination

The Zürn header transporters are homologated for travel on public roads in nearly all countries.



Large choice of transporters

No matter whether you opt for a single-axle, tandem or two-axle transporter, they all share the same rugged design for safe travel on public roads and on bumpy field tracks.

All-wheel steering

The four-wheel steered transporter is the perfect choice for managing narrow and curved field tracks. Following close behind the combine, it makes for safe transportation of even the widest headers.



Fast and safe transportation

The Zürn product range comprises a comprehensive range of header transporters that were developed and trialed in close cooperation with John Deere.



A special permit is required for 18m+ combinations for travel on public roads in several countries.

However, simplified approval for local homologation is now provided by the factory complete with an expert assessment on the combination and special permit that meet the statutory requirements for many John Deere combines and Zürn transporter combinations.

So now you will be on the right side of the law as you travel safely and even faster between farm and field.



Cutting width	5.50 m (18 ft)	6.10 m (20 ft)	6.70 m (22 ft)	7.60 m (25 ft)	9.15 m (30 ft)	10.70 m (35 ft)	12.20 m (40 ft)
Recommended header transporter	SWW250	SWW250	SWW350	SWW500	SWW550	SWW-X2	SWW-X6
Optional header transporter			SWW450	SWW450	SWW-X2	SWW550	



"With our PREMIUM FLOW belt headers we are always two steps ahead of vario headers."

HAPPY CUSTOMERS



"We really appreciate how reliable this header is."

"In the past we occasionally combined rapeseed that was not fully matured, just because converting the header was such a hassle. Today, we switch from cereals to rapeseed and back up to four times per season. That takes no longer than 15 minutes* for one person. Excellent.

The 625PF proves its reliability year after year – also in difficult conditions. The original belts still do a top job - after nine years of use. We remove the debris only once per season."

Thorsten Reim is an arable farmer who farms 250ha of combinable crops. He has relied on the extra performance of the 7.60m PREMIUM FLOW 625PF header since 2008.

*Thorsten Reim operates a first-generation PREMIUM FLOW.

"We wouldn't want another header now."

"We got our first two headers in 2006, and from the start, we have always been very happy with them. Today, we operate four PREMIUM FLOW headers and wouldn't want to be without them.

The PREMIUM FLOW always offers the right table length, no matter whether it's standing or laid crops. That reduces operator fatigue, which is a great asset during long working days."

German farmer Reinhard Wirth is a member of a co-op. They farm 2,700ha of arable land and currently run four combines each with a 10.70m working width; since 2006 the PREMIUM FLOW has been the sole header on the combines!

Technical Details

Model	618PF	620PF	722PF	725PF	730PF	735PF	740PF
Cutting width	5.50 m (18 ft)	6.10 m (20 ft)	6.70 m (22 ft)	7.60 m (25 ft)	9.15 m (30 ft)	10.70 m (35 ft)	12.20 m (40 ft)
Number of belts	4	4	5	5	6	7	8
Belt length	550 mm	550 mm	500 mm	500 mm	500 mm	500 mm	500 mm
Table length	1.000 mm	1.000 mm	1.000 mm	1.000 mm	1.000 mm	1.000 mm	1.000 mm
Intake auger diameter	660 mm	660 mm	760 mm	760 mm	760 mm	760 mm	760 mm
Auger flight height	130 mm	130 mm	170 mm	170 mm	170 mm	170 mm	170 mm
Centrally supported auger	–	–	–	–	–	•	•
Belt drive	Mechanical by roller chain				Hydraulic, infinitely variable		
Rapeseed kit	•				•		
	2 counter acting side knives, 1,350mm, mechanical driven via the cutter bar				2 counter acting side knives, 1,350 mm, mechanical driven via knife drive with dog clutch, quick fit without tools, approx. 15 kg		
Crop dividers	•				•		
	2 short and foldable dividers				2 short and foldable dividers, quick fit without tools		
Cutting system	Schumacher EasyCut II cutting system with double guards and individually bolted sections with fine serration						
Guide rollers in place	○	○	•	•	•	•	•
Dual knife drive	–	–	–	–	–	•	•
Spare knife	•	•	•	•	•	•	•
Grain lifter	•	•	•	•	•	•	•
Split reel	–	–	–	–	–	–	•
Reel tines	Spring tines				Composite tines		
Multicoupler	•	•	•	•	•	•	•
Number of AHC sensors for automatic header control	2	2	3	3	4	4	4
Splash guard on rear wall	•	•	•	•	•	•	•
Weight	2,460 kg	2,620 kg	2,920 kg	3,140 kg	3,640 kg	4,290 kg	4,780 kg

• Standard ○ Option – not available



Boosting outputs also on smaller combines

The well-proven PREMIUM FLOW series 600R headers continue to be available for smaller combines.

The first-generation belt headers deliver excellent results at work widths of 5.50 m (18 ft) and 6.10 m (20 ft) and bring the advantages of an active crop feed to lower-capacity machines.

130 Years of Passion for Agricultural Machinery

Our product range



Combine Headers

- ▶ PREMIUMFLOW high-performance belt headers
- ▶ SOLERO sunflower headers

Header Extensions

- ▶ RAPS PROFI rape extensions
- ▶ RAPSCOMPACT side knives
- ▶ Sunflower extensions

Header Transporters

- ▶ 1-axle, tandem, and 2-axle transporters
- ▶ All-wheel-steered header transporters

Forage Headers

- ▶ PROFICUT direct cut headers for biomass

Field Research Technology

- ▶ Plot combines
- ▶ High-clearance tool carriers
- ▶ Plot seeders

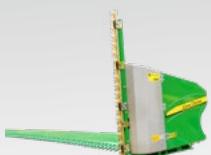


The harvest specialist

The origins of Zürn date back to the blacksmith shop that was founded in 1885. In 1963, the company became an authorized John Deere dealership. Since the 1980s, Zürn Harvesting is a seasoned developer and manufacturer of optional attachments for combines and forage harvesters of all brands.

Since 2004, our Hohebucht production site in southern Germany has been developing, manufacturing and marketing research plot combines that ensure plot-to-plot purity.

State-of-the-art production technology and service expertise ensure you get high-performance and absolutely reliable products that boost your productivity.



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This brochure is available internationally. Some illustrations and texts may refer to optional equipment and accessories that are not available in all regions. Further information is available from your local dealer. Zürn Harvesting reserves the right to change specifications and designs shown in this brochure without notice.

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