

# ZÜRN

H A R V E S T I N G



## ZÜRN header extensions

We boost combine performance





## We make combines of all makes more productive!

For more than 30 years, **ZÜRN** header extensions have excelled in rapeseed harvesting. Featuring superior mechanical drives, our side knives have been proven tens of thousand times. In addition, losses on the header are effectively collected by the extended table.



# Eliminate losses, boost your yields!

## Combine performance begins on the header

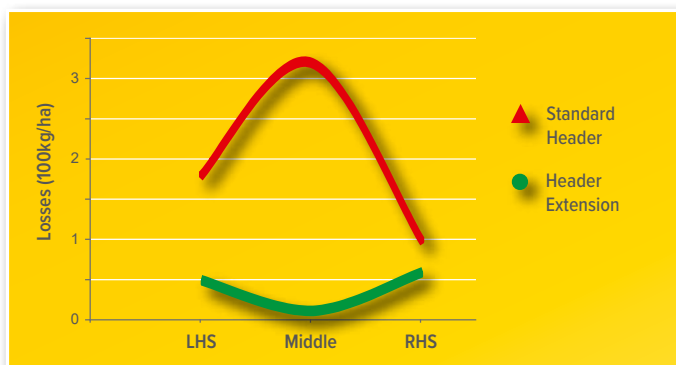
Every combine operator is all too familiar with the challenges of harvesting rapeseed – thick, tangled stems and seeds shedding too readily cause losses and make rapeseed a difficult crop and business. The good news is that you can avoid losses on the header!

Independent research has shown that it is possible to reduce losses by up to 300kg per hectare by using a rape header extension.

The investment pays back quickly as you maximise your yields.

## We help maximise your yields

### Fewer losses mean higher yields



The area on a header where seeds are typically shed

The investment in a rapeseed table pays back in a minimum of time, also for those who harvest smaller acreages. This is the impressive finding of a survey that was conducted by CETIOM (Centre Technique Interprofessionnel des Oléagineux Métropolitains), the independent French farm machinery research institute.<sup>1</sup>

The extended table collects the seeds that are shed on the reel and prevents them from dropping on the ground.

- The side knives cut the tangled stalks, avoiding the vulnerable pods being pulled from the standing crop and bursting open.
- The auger, too, is a hazardous place for pods. As the auger receives the material its tines, particularly those in the middle, damage the pods so the seeds drop on the ground. This is not the case on an extended header where the extended table collects the seeds.

The bottom line is a significant decrease in losses and an approx. 10% increase in yields.<sup>1</sup>

<sup>1</sup> Source: CETIOM tests conducted in Dijon (France) from 2002 to 2005

# RAPS PROFI II Header Extension

## Table extensions with mechanical side knives

For decades, the **RAPS PROFI II** rapeseed extensions have been the benchmark in rapeseed harvesting. Today, these well-proven table extensions continue to hold an unrivalled position in terms of loss and efficiency.

### High-performance rape knives

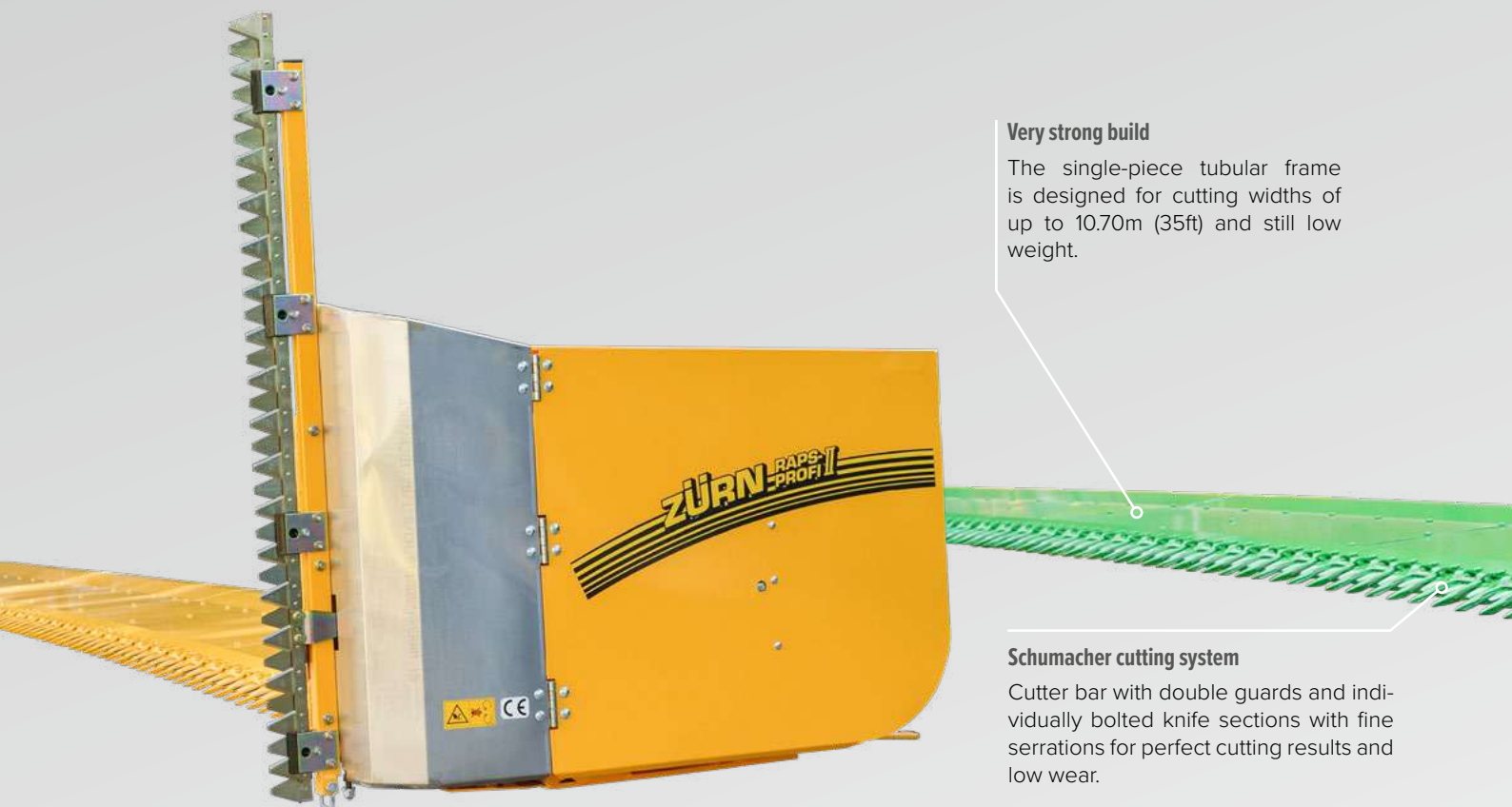
Reciprocating knives with 1.35 m cutting height, slim and high-performance sections combined with plastic knife guides perform a straight cut with low losses.

### Very strong build

The single-piece tubular frame is designed for cutting widths of up to 10.70m (35ft) and still low weight.

### Schumacher cutting system

Cutter bar with double guards and individually bolted knife sections with fine serrations for perfect cutting results and low wear.



### Reduces losses

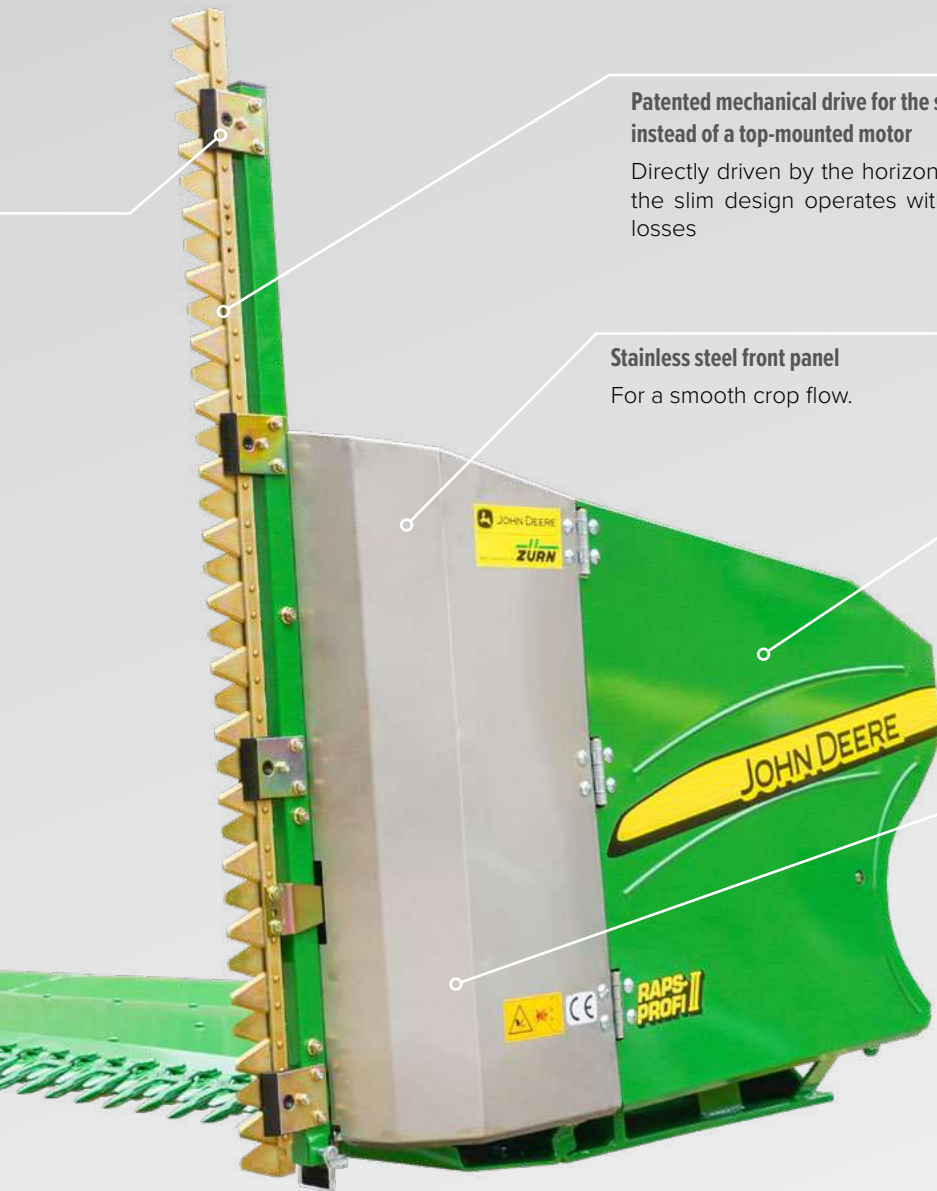
A rapeseed extension continues to be the most efficient and most economical equipment for harvesting rapeseed. The 80cm longer table collects sheddings, increases yields and reduces losses. In fact, these reductions in loss are also significant over Vario, Flex or Draper headers.



### Pays back quickly

With rapeseed currently achieving prices of 300 €/t, a rape table leads to an extra gain of up to 90 €/ha for quick pay-off.\*

*\*Based on yields of 3 tonnes/ha and a 10% increase in yields.*



**Patented mechanical drive for the slim side knives instead of a top-mounted motor**

Directly driven by the horizontal knife of the header extension, the slim design operates with low vibrations and less cutting losses

**Stainless steel front panel**

For a smooth crop flow.

**Fully enclosed side**

So rape seeds and straw drop on the table rather than into the drives.

**Planetary gearbox**

Absolutely linear thrust and excellent cutting quality.

The linear stroke provides high cutting performance and durability.

<sup>2</sup> **RAPS PROFI II** header extensions are available for nearly all combine makes and models. Specification may vary depending on header model.



# RAPS PROFI II Header Extension

## Harvesting rapeseed without compromise

Thanks to its mechanical drive, the **RAPS PROFI II** extension is attached quickly and easily. The side knives are driven by the horizontal knife of the header extension.

The counter-acting side knives cut interwoven stems. The superior mechanical drive features maximum reliability

### The ZÜRN benefits for you

- ▶ The side knives are driven by superior mechanical drives.
- ▶ Slim design and reduced losses.
- ▶ No heavy motor on the knife – minimised vibration.
- ▶ No electric / hydraulic motor therefore no interference with the combine's electric or hydraulic system

# PERFECT ATTACHMENT



### Attachment and removal is faster than ever

Set-up times are much shorter now thanks to a much easier and faster attachment. The header is attached without the need of tools and in only 10 minutes. Simply engage four quick-locks and fit the drive belt. Done.



### Perfect fit

The precision-built **RAPS PROFI II** extension is customised to the individual combine model for an uncompromised performance.



### Easy configuration at the dealership

When you have your extension fitted to the header for the first time, your dealer simply bolts it the pre-machined holes on the header. Welding is not necessary in general. The conversion takes less than 1.5 hours.



### No part needs removing

The pull-out belt tensioner and further attachment parts remain on the header when this is harvesting grain.<sup>2</sup>



Available for  
(nearly) all  
combine makes  
and models.

### Tried and Tested Rapeseed Extensions

Superior drive technology guarantees maximum reliability



Our **RAPS PROFI II** header extensions are available for nearly all combine and header makes. The mechanical drives ensure superior performance for maximum reliability.



ZÜRN RAPS PROFI II  
HEADER EXTENSIONS ARE AVAILABLE FOR:

- John Deere
- Claas
- Case IH
- New Holland
- Rostselmash
- Sampo
- Fendt
- Massey Ferguson
- Laverda
- Deutz-Fahr

# VARIO SUPPORT for Header Extensions

## Simply take the rapeseed extension with you

**ZÜRN** rapeseed extensions are attached and removed within minutes. But what, if you left the rapeseed extension on the farm and this is miles away?

The solution is **VARIO SUPPORT**.

These special header supports give you the flexibility in the field so you can choose to cut grain or rape.



### Flexibility in the field

The **VARIO SUPPORT** header supports are available for most single-axle and double-axle header transporters from **ZÜRN**.

**VARIO SUPPORT** allows you to take the rapeseed extension to the field, boosting your flexibility during some weeks in the season.



### Variable header supports

The patented **VARIO SUPPORT** system consists of supports that are repositioned hydraulically, allowing operators to take the rape extension and grain header on the same header transporter.



### Fast changeover to rapeseed

The rape extension is not removed from the header transporter for attachment to the header. Still on the transporter, it is moved up to the header with the help of a manually operated pump and then locked in place. This is the same procedure as when attaching the extension at the farm.







## E-CUT Side Knives

### Rapeseed knives with electric drives

Side knives with electric drives are available for regular combine headers that lack a header extension.

- Electric side knives suit a large range of combine and header models (not supplied with attachment parts) <sup>3</sup>
- Attached to the right and left side; available with optional attachment parts for John Deere 600R series headers <sup>3</sup>
- Reciprocating knives with a 1.35m cutting height, running in plastic guides
- Driven by high-quality electric motors, operated by robust toothed belts and connecting rods

<sup>3</sup> E-CUT side knives are available for nearly all combine makes and models. The technical specifications vary depending on the specific header model.

# COMPACT Side Knives

## Side knives with mechanical drives

The **COMPACT** side knives are available for nearly all combine makes and models.

### Simple and robust design

Side knife unit without header extension for attachment to grain headers.

### Easy attachment/removal

Very easy attachment/removal with two quick-locks and integral attachment parts. <sup>4</sup>



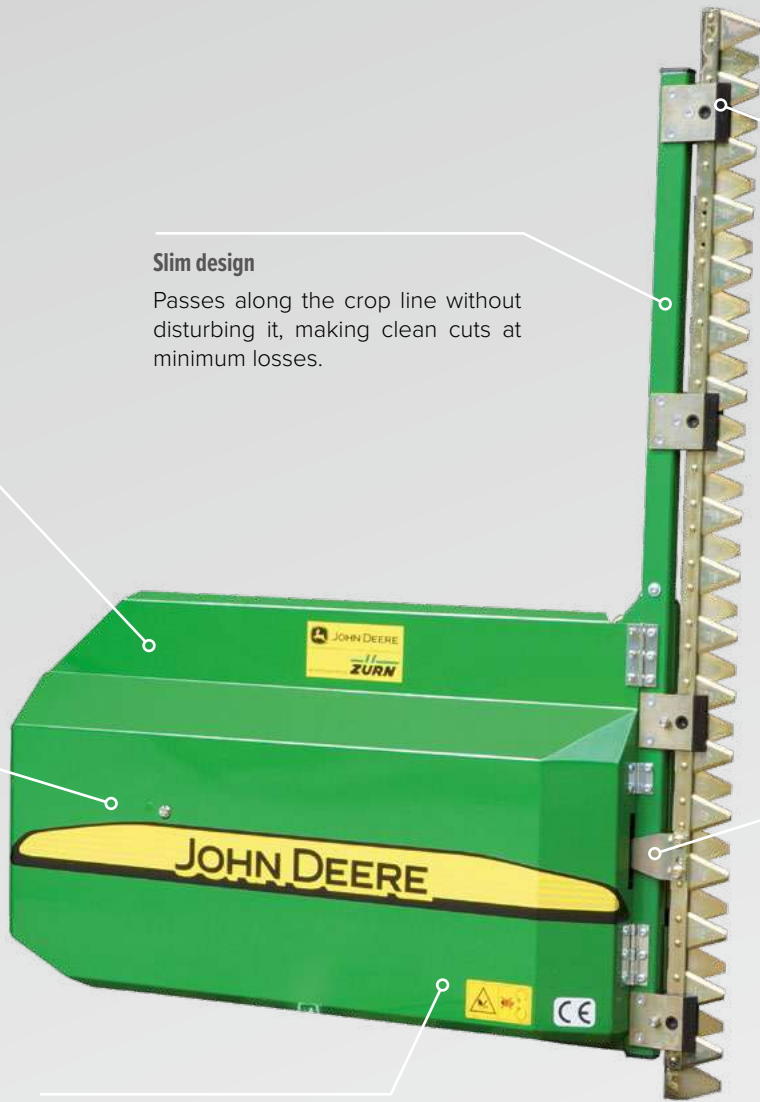
### Slim contours

Our mechanical side knives are so slim that you need to look twice to spot them. They have no top-mounted drive that would disturb the pods.



### Maximum reliability

No electric or hydraulic motor therefore no interference with the combine's electric or hydraulic system, this translates into maximum performance and reliability without downtime.



#### Slim design

Passes along the crop line without disturbing it, making clean cuts at minimum losses.

#### Robust and high-torque drive

Reciprocating knives, a 1.35m cutting height, slim high-performance sections and plastic guides ensure clean and gentle cuts with minimum losses.

#### Patented mechanical drive

As the knife is powered by the cutter bar drive, the unit is very slim for gentle operation along the crop line with less vibration and at minimum loss.

#### Compact size

Low-weight design for easy attachment without a helper.

<sup>4</sup> **COMPACT** side knives are available for nearly all combine and header makes and models. The technical specifications vary depending on the specific header model.



# COMPACT Side Knives

## The side knife for more flexibility

The all-mechanical **COMPACT** side knife is the cost-effective option for smaller fields.

These separate side knives are available for attachment to regular grain headers that lack a header extension as well as for variable and draper headers.

### The stand-out ZÜRN features

- ▶ Minimum vibration.
- ▶ No top-mounted drive that would disturb the pods.
- ▶ No electric or hydraulic motor – no strain on the electric or hydraulic system of the combine.

## SUPERIOR DRIVE



### Patented mechanical knife drive

The dependable **COMPACT** side knives suit left- and right-hand side attachment. Each unit has its own mechanical drive that is powered by the cutter bar.<sup>4</sup>



### No extra drives required

The use of mechanical drives eliminates the need of routing any electric or hydraulic lines to prepare the header for the knife. More than that, the mechanical unit is well-proven and stands for reliable operation.



### Fast attachment/removal

Attaching the side knives is easy and takes less than 10 minutes without a helper. Simply attach two quick-locks and connect the rod end bearing with the knife. Done.<sup>4</sup>



### Conveniently stored on the header

The compact side knives are carried on the back of the header for quick changeovers from rapeseed to grain.



Available for (nearly) all combine makes and models.

## Drive Technology Second to None

Custom solutions for your combine

Our **COMPACT** side knives are available for combines and headers from nearly all manufacturers.

The mechanical drive is optimised to the individual header model – for dependable functionality.

ZÜRN COMPACT SIDE KNIVES ARE AVAILABLE FOR THE FOLLOWING MAKES:

### John Deere 600R

- ▶ Mechanical drive
- ▶ Right-hand side
- ▶ Clip-On



### Claas

- ▶ Mechanical drive
- ▶ Right- and left-hand side
- ▶ Clip-On



- John Deere
- Claas
- Case IH
- New Holland
- Rostselmash
- Sampo
- Fendt
- Massey Ferguson
- Laverda
- Deutz-Fahr
- MacDon

# COMPACT Side Knives

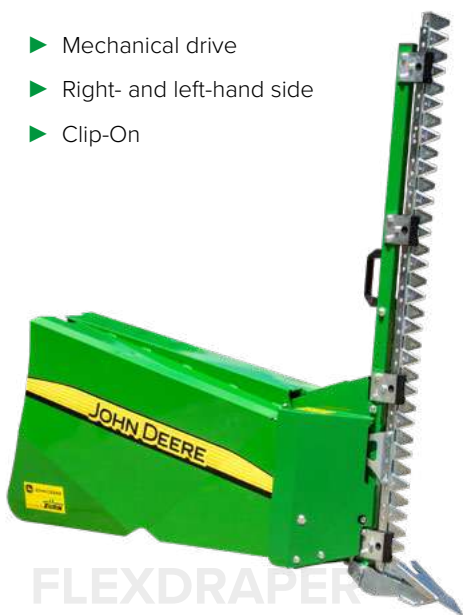
## Rapeseed knives for universal headers

The **COMPACT** side knives present an ideal solution for harvesting rapeseed with a regular header. Thanks to their mechanical drives, **COMPACT** side knives are attached quickly and easily.

**NEW:**  
Now also  
available for  
Draper headers

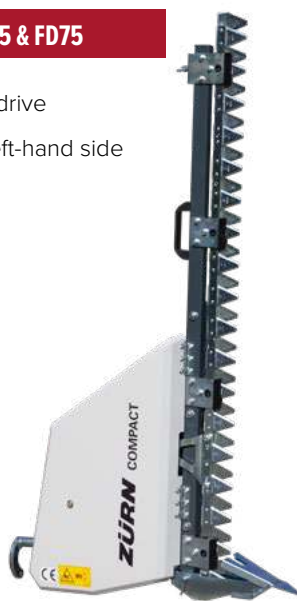
### John Deere 700FD

- ▶ Mechanical drive
- ▶ Right- and left-hand side
- ▶ Clip-On



### MacDon D1 & FD1

- ▶ Mechanical drive
- ▶ Right- and left-hand side
- ▶ Clip-On



### Case IH 3100

- ▶ Mechanical drive
- ▶ Right- and left-hand side
- ▶ Clip-On



### COMPACT for John Deere 700FD

- ▶ New side knife kit for John Deere 700FD FlexDraper headers
- ▶ Converts the header to quick attachment
- ▶ The standard header dividers can be removed without tools.
- ▶ Changes over to rapeseed in just 5 minutes. Nearly without tools.

### The ZÜRN benefits for you

- ▶ Mechanical side knives for left- and right-hand side attachment to headers with variable tables as well as draper and belt headers.<sup>3</sup>
- ▶ Reliable operation from perfect adaptation to the specific drive system.
- ▶ Easy attachment thanks to customised quick-attachment frames.

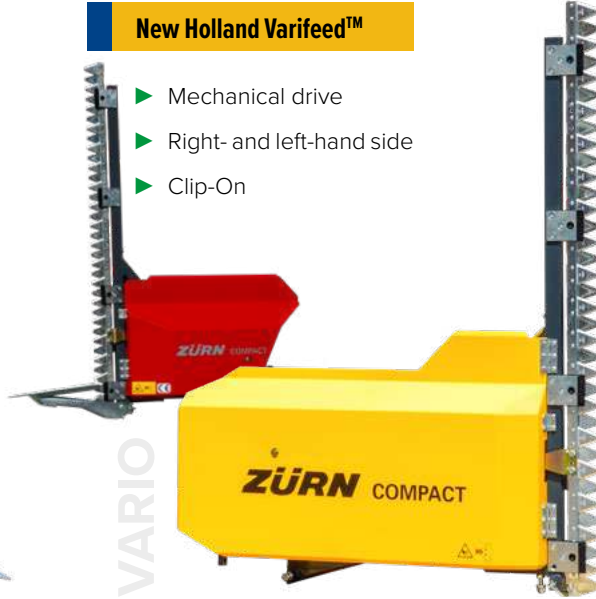
#### John Deere 700D

- ▶ Mechanical drive
- ▶ Right- and left-hand side

#### Case IH 3050

#### New Holland Varifeed™

- ▶ Mechanical drive
- ▶ Right- and left-hand side
- ▶ Clip-On



# Sunflower extension

## The clever solution for sunflowers

Sunflowers have fragile stalks and heavy heads which require special care to cut out the risk of dropping.

The ideal solution for dependable sunflower harvesting is the special design of the pans which collect the heads preventing avoidable losses.

As the pans are fully integrated in a regular header, the combine is changed over to sunflower in no time at all.

# FAST CONVERSION



### Cost-effective option

The sunflower extension is the cost-effective solution for harvesting sunflowers. For fast changeovers, its pans form one integral and single-piece unit. Your grain header is ready to harvest sunflower in no time at all.



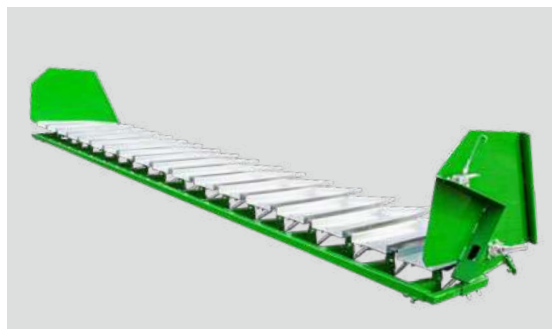
### Plastic pans

Thanks to a new design, the pans guide the heads more effectively into the combine. Manufactured from plastic, they make the extension much lighter and therefore increase header stability.<sup>5</sup>



### Reel covers

Covers for the reel tines preventing the heads from being spiked by the tines and optimise the crop feed to the cutter bar and auger.



### Straightforward and quick changeovers

Like the rapeseed table, the sunflower extension is one solid unit. Instead of attaching each pan individually, the extension is coupled to the header as one solid unit.





Suitable for  
**CLAAS, JOHN DEERE,  
NEW HOLLAND and  
CASE IH headers**

## The Single-Piece Sunflower Extension

### Easy and fast changeovers

- The pans and sides form one single-piece extension that is coupled to the header as one unit.
- Fast and easy attachment/removal thanks to two quick-lock mechanisms on either side, using the same attachment points of the rapeseed header.
- The pans are formed to avoid seed loss, feeding the flowers to the cutting system irrespective of row spacings.
- The new plastic pans reduce the weight and boost header stability.<sup>5</sup>
- The guards on the cutter bar are covered completely for blockage-free operation.
- Covers for the tines come as standard items which prevent the heads from being spiked by the tines.
- A three-piece reel is available as an option for even higher work rates.
- Excellent cost effectiveness and user benefit



<sup>5</sup> Our sunflower extensions are available for headers from John Deere, Claas, New Holland and Case IH. The technical specifications vary depending on the specific header model. Plastic pans are not available for all models.

# Convenient Handling – Safe Transport

## The complete range of header transporters

A good transporter 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



### Tailor-made transport solutions

Our extensive range of header transporters offers the right transporter for every header width. The supports are customised to your specific header model, ensuring convenient loading and unloading.



### Fast and safe road transport

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 bumpy field tracks.



### Four-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.



Header width	Single-axle model	Tandem-axle model	Two-axle model	Two-axle with four-wheel steering
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)				•
12.50 m (41 ft)				•
13.70 m (45 ft)				•



**SWW 100 | 200 | 300**  
Single-axle header transporter



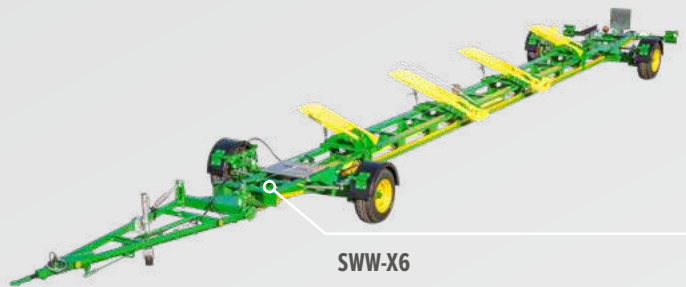
**SWW 400**  
Tandem-axle header transporter



**SWW 500**  
Two-axle header transporter



**SWW-X2**  
Two-axle header transporter with turntable steering front and rear



**SWW-X6**  
Two-axle header transporter with Ackermann steering front and rear

# 135 Years of Passion for Ag Machinery

Our complete product range



## The harvest specialist

We are firmly rooted in farming and at home in the fields around the world. The origins of **ZÜRN** date back to the blacksmith shop that was founded in 1885. Since then, **ZÜRN** has evolved to become a synonym for 100% Made in Germany quality.

At our Merchingen production site, we develop and manufacture equipment for combines and forage harvesters of all brands. New technologies for mechanical weed control complete our extensive product range.

Our Hohebuch production site develops, manufactures and markets research plot combines that ensure plot-to-plot purity.

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

### Combine headers

- ▶ **PREMIUM FLOW** high-capacity belt headers
- ▶ **SOLERO** sunflower headers

### Header extensions

- ▶ **RAPSPROFI II** rapeseed header extensions
- ▶ **COMPACT** side knives
- ▶ Sunflower extensions

### Header transporters

- ▶ Single-, tandem-, two-axle header transporters
- ▶ Four-wheel steer header transporters

### Headers for forage harvesters

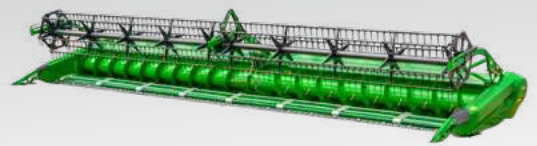
- ▶ **PROFI CUT** direct cut headers for biomass

### Econventional Farming

- ▶ **TOP CUT** <sup>collect</sup> weed collector
- ▶ **SEED TERMINATOR** multi-stage hammer mill

### Agricultural field trial equipment

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



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# ZÜRN

HARVESTING

