

**We make combines of all
manufacturers even more efficient**



**Rape header extensions, rape side knives, sunflower header
extensions, platform trailers, pick up header**

Rape header Raps Profi II

Available for almost all combine models

Every combine driver has experienced the problems when harvesting rape seed:

- the stems of the plant are woven into one another
- the pods burst as soon as they are touched by the cutting platform

Independent agricultural institutes have found out that the losses of direct cutting can be reduced by 300 kg per hectare if a rape header is used. Thus, it pays for itself over a very short period of time.



Zürn can help you to increase your harvesting yields

- ① • **Reduction of set-up time by simple and fast installation - without the need for any tools** It can be installed within 10 minutes: tighten 4 quick-locks, put on the belt, and that's it.
 - **Mechanically driven side knives**
Counter acting knives with 1.35m cutting length and plastic guides, directly driven by the horizontal knife, therefore:
 - slim design with less cutting losses
 - low vibration because of the missing weight of a motor on top of the knife
 - no electric or hydraulic motor therefore no interference with the combine's electric or hydraulic system
 - **Very solid design**
central steel tube frame, designed for cutting widths up to 9.15m; reasonable weight (480kgs for a 7.60m)
- ② • **Completely closed side wall**
rape seeds and straw fall onto the table extension and not into the drive system
- ③ • **Planetary knife drive**
The linear stroke provides high cutting performance, quiet operation and durability
- **Stainless steel front-end of side door**
for a smooth crop flow
- ④ • **No separate attachment parts**
Belt tensioning bracket, fitting parts etc. can stay in the cutting platform when harvesting grain
- **Easy first-time installation in the workshop**
Installation takes about 1.5 hours. Holes that do already exist in the cutting platform are used for mounting the brackets. So at almost all combine models no holes need to be drilled and there is nothing to weld.



• Excellent fitting accuracy

each rape header is designed specifically for each cutting platform.

• Higher yields by considerable loss reduction



According to a study performed by the independent French agricultural institute CETIOM (Centre Technique Interprofessionnel des Oléagineux Métropolitains), a rape header pays for itself over a short period of time - even over a small number of hectares

The diagram on the right compares the rape seed harvest by using a regular cutting platform with one using a cutting platform plus rape header

- the table extension prevents seeds which are shattered out of the pods by the reel touching the ground. Together with the material flow these seeds will be transported into the combine.
- The side knives cut the woven stems and prevent the whole plant from being pulled out of the crop which would result in pods bursting.
- The auger transports the crop. In the middle, where the auger fingers grab the material and pull it into the feeder house, they rip the pods open in an aggressive manner. Seeds spatter out of the cutting platform in the front. A table extension catches the seeds which would normally fall on the ground.

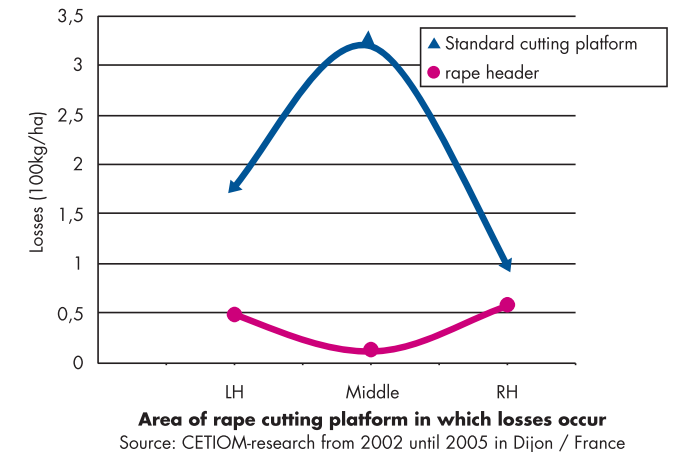
Summing up, the use of rape headers reduces the harvesting losses when direct cutting rape seed significantly. The yields rise by 10%. This effect was impressively confirmed in the experimental series of the CETIOM study.

Even with lower percentage losses and a smaller acreage, a rape header pays for itself over a short time as shown in the following table. The effect of a faster harvesting speed (30%) is also incorporated into the calculation.

Profitability of a rape header

Measured loss reduction (100kg / ha)	Additional earnings (€/ha), assumption: € 20/100kg	Cost reduction by higher harvesting speed (€/ha) - 30%	Break even point (ha rape seed / year), 5 year payback period
1	20	18	31
2	40	18	21
3	60	18	15

Source: according to CETIOM study



A rape header pays for itself quite early.

Example: for a rape seed acreage of 21 ha and a reduction of losses of 200kg/ha, a rape header amortizes in 5 years.

Or: for a rape seed acreage of 100 ha a rape header amortizes already in one year

Rape side knife "Compact"

(mechanical drive) available for almost all combine models



- **Separate side knife for platforms without a table extension** For installation on the RH side, an alternative solution to the "Raps-Profi" rape header extension for smaller acreages

- ① • **Compact design - very easy and fast installation and removal** due to 2 quick-locks and integrated attachment parts

- ② • **Patented mechanical drive**
driven by the horizontal knife of the cutting platform, therefore:
 - low vibration
 - no motor on the top end of the knife which would touch rape seed pods by itself and produce losses
 - no electric or hydraulic motor and therefore no interference with the combine's electric or hydraulic system

- **solid and strong**
counter-acting knives and slim high performance sections perform a straight cut with low losses, 1.35m cutting length, plastic knife guide

- **slim design**
provides a smooth crop flow and low cutting losses



Rape side knife „Compact“ for New Holland Vari-Feed and Case 2050 cutting platforms

- mechanically driven
- no time consuming laying of cables, no stress on the combine's electronic system, no fuses or motors which can burn through
- easy installation by one person due to little weight and the use of quick-locks
- parking position at the backside of the cutting platform for flexible change from rape seed to grain harvesting



Rape side knife "E-Cut"

(electric motor drive) available for almost all combine models

- electric side knife (no attachment parts in basic configuration) for universal use on different combine models or cutting platforms
- for LH or RH adaptation; attachment parts for some combine models are available as an option
- driven by a high-quality electric motor
- drive system with solid tooth belt and crankshaft
- counter-acting knives, length 1.35m
- plastic knife guides



Sunflower attachment

available for Claas, John Deere and New Holland combines

- Complete attachment with pans, side parts and basic frame - integrated "one piece" design for easy installation
- Very simple and fast attachment to the cutting platform by 2 quick locks on both sides - uses the same fixing points as the rape header
- Reasonable price-performance ratio for the user
- Sheet metal covers for the reel prevent spiking of sunflower heads
- Cutting fingers are completely covered
- For an even higher harvesting speed a special sunflower reel is available



Platform transporter available for all John Deere and New Holland combines, for other manufacturers upon request

- Solid central frame 200 x 150 x 8 mm

- ② • High-Quality lighting equipment

- ④ • Very robust axle

- ① • Easy positioning and fixing of cutting platform by comfortable locking mechanism

- ③ • Solid support wheel with big diameter

- Heavy duty tyres



Single Axle Transporters

- Model 200 (recommended for cutting widths up to 6.10m) with 2 supports

- Model 300 (recommended for cutting widths from 6.50m to 8.00m) with 3 or 4 supports

Options:

- hand brake
- overrun brake
- holder for crop dividers



2 Axle Transporters

- Model 500 (recommended for cutting widths of 9.15m) with 3 supports and overrun brake

Key features:

- no axle in feeder house area - therefore simple and fast positioning of cutting platform
- wide front axle and big rotating assembly - results in maximum stability



Tandem Axle Transporter

- Model 400T (telescopic drawbar, 3 supports, overrun brake as an option)

Key features:

- Excellent road transport suitability, less swinging of load on the transporter
- Smaller wheels make positioning of cutting platform easier



Zürn rape headers can be installed in a few minutes - much faster than one would need to adapt a variable cutting platform from grain to rape seed harvesting. But what if the rape header is some distance away back in the yard? Vario Support is the solution.

The patented system uses hydraulically movable supports to shift the rape header out to a position where the cutting platform can be stored independent of the rape header.

So one is flexible and can decide in the field whether to harvest this field of rape or that field of barley.

The attachment of the rape header to the platform can be done on the transporter. With a manual hydraulic pump one can bring it out of the transport position towards the cutting platform and connect it in the same manner as if it was done on the ground.

Vario Support available for all John Deere combine models

- Telescopic supports (hydraulically adjustable) allowing the storage of the rape header on the transporter - separately from the cutting platform
- Makes transport of rape header easier - important especially in the transition period between rape seed and grain harvest
- Available for all models of Zürn platform transporters



Pea Pick-up

available for almost all combine models

The optimum solution for harvesting peas and beans - faster, cleaner and with less wear and tear

Its simple operation is impressive:

Plastic, flexible teeth lift up the stems. The stems break and are transported continuously into the header and then via the auger into the feeder house. Stones, clods of earth or weeds will not be lifted by the plastic teeth and remain on the ground.

A small conveyer belt complements the system in the best possible way. It makes sure that the pods and seeds which eventually fall out are retained and thus minimizes the losses which would occur when using conventional harvesting methods. Even the fallout of overripe seeds is largely avoided because of the low rotation speed.

A suspension spring allows a thorough scanning of the ground. By that, the soil is disturbed less and the seeds as well as the machine are cleaner.

The pick up is available in the following sizes: 4.25m, 4.85m, 6.10m and 6.70m.



Zürn attachments are available for the following combine brands:

- | | |
|---------------------|------------------------------|
| • Case | • Laverda |
| • Challenger | • Massey Ferguson |
| • Claas | • New Holland |
| • Deutz-Fahr | • Rostselmash |
| • Fendt | • Sampo |
| • John Deere | and other trademarks. |

Not every product is available for all combine models - please ask for details

For some products and combine models, differences in design and technical specifications might occur which differ from the data in this brochure

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For over 25 years Zürn has produced cutting platforms for various combine models.

Zürn has many years of production and service experience. Therefore we can assure you of high-performing machines and attachments which are permanently ready for operation.

Dealer: