

DEUTZ-FAHR 7545 RTS



EVOLVING AGRICULTURE.

100 YEARS OF EVOLUTION.



The new 7545 RTS combine harvester will meet the expectations of the most demanding customers in terms of capability and performance. The DEUTZ-FAHR axial threshing system with hydraulic drive leads the way in the field of rotary type combines where threshing and separation capability is concerned, as well as providing ease of supervision and maintenance.

The advanced technology of this combine harvester will ensure that any user can benefit from unparalleled harvesting capability accompanied by record-breaking economy in operation.

The new 7545 series reflects over 100 years of experience and steadily evolving technology. Just as in 1909 when the Ködel&Böhm predecessor to today's machine represented a landmark and a technological benchmark in terms of performance and quality, so today, the 7545 series leads the way for this class of machine, maintaining the qualities that have always stood out in the long history of our brand.



UNCONVENTIONALLY EFFECTIVE.

ADVANTAGES

- ▶ High performance cutter bars with working widths of 6.3 m to 7.2 m
- ▶ Large diameter auger with spirally arranged feed fingers
- ▶ Planetary knife drive for high cutting frequency
- ▶ Folding crop dividers and hydraulic multi coupling for simple and rapid fitment/removal of the bar
- ▶ Autocontrol system
- ▶ Variostar bar
- ▶ Special attachments for rapeseed and sunflower harvesting



Historically, DEUTZ-FAHR headers have always been renowned for:

- Precision control
- Fast cutting action
- Toughness and reliability

AUTOCONTROL

The acclaimed header control system used on DEUTZ-FAHR combine harvesters is able to ensure that any type of header can follow the ground contours closely, and that its position is adjusted with to different harvesting conditions, whether by selection of the cutting height, or ground pressure, or lateral float of the header; the operator can set and manage the appropriate work parameters directly from the cab, leaving the actual adjustments to the automatic control functions.

Schumacher cutting system

The tandem cutting system used on DEUTZ-FAHR harvesters produces a clean and precise cut, even on badly laid crops; with the planetary knife drive, a cutting frequency of 1,220 cuts per minute can be achieved, but more importantly, the cutting action movement is in line, hence less affected by wear, vibration and with a lower power demand.

Proportional reel speed control

All DEUTZ-FAHR headers are equipped with a reel turning at a speed proportional to the ground speed.

Once the optimum feed density has been established, the feed rate will be held steady by the machine itself, according to the current work rate;

this guarantees a highly uniform crop flow toward the header knife, thereby reducing the demands on the attention of the operator still further.

Special equipment

Our alternative crop headers are designed with multi-capability firmly in mind.

Both the sunflower kit and the oil seed rape kit are easily fitted to the standard grain header; with these accessories, harvest-time can be extended, and the machine utilized even more profitably.



Skids ensure that the cutter bar follows the ground contours closely, instantly compensating for every ground undulation as the header advances.



Thanks to a planetary drive and a cutting frequency of 1,220 strokes/min, the knife cuts swiftly and cleanly through the crop, whatever the harvesting conditions.



Knife sections mounted alternately edge-up and edge-down suffer less wear and ensure a clean cut every time.



Variostar bars enable optimum adaptation to all crops.



The rapeseed attachment allows easy conversion of the standard cereal cutter bar, increasing its all-round usefulness.

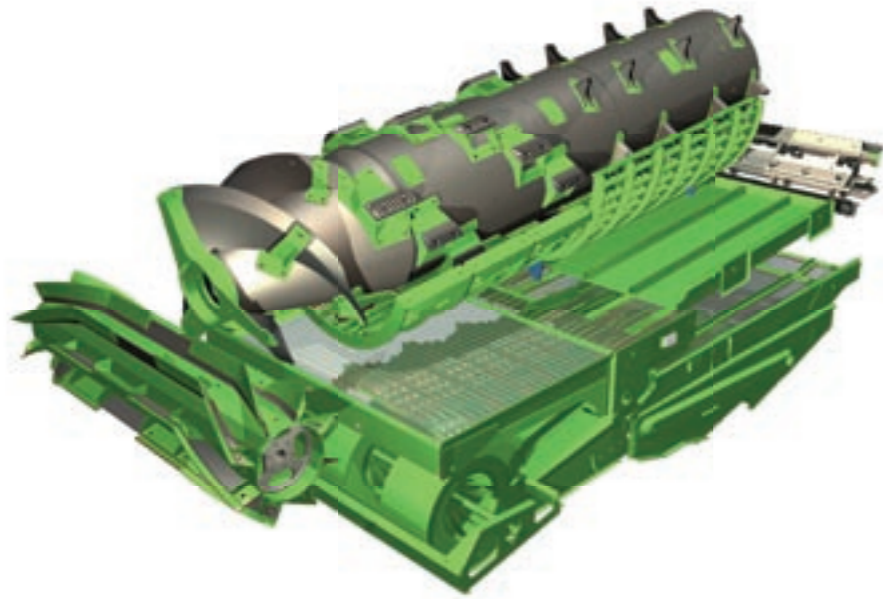


The sunflower attachment ensures that only seed heads are harvested, for maximum effectiveness of the threshing operation.

EXTRAORDINARY HARVESTING CAPACITY PLUS SUPREME EASE OF OPERATION AND MAINTENANCE.

ADVANTAGES

- ▶ Large diameter feed roller
- ▶ High inertia, 750 mm diameter rotor
- ▶ Hydraulic rotor drive with Linde pump rated 210l/min
- ▶ Rotor and crop header drives are both hydraulically reversible in the event of overloads
- ▶ Hydrostatic rotor drive with two speed mechanical gearbox



The 3 section rotor is fed by a large diameter drum ensuring optimized crop flow.



The rotor is driven by a dedicated hydrostatic system: This means that the use of drive belts can be reduced to a minimum.



Rotary Threshing System (RTS)

The RTS system is the natural evolution of DEUTZ-FAHR's Optimum Threshing concept. With separation induced by centrifugal force, the operating capability of the threshing system is increased, but with no loss of the gentle grain handling characteristics for which DEUTZ-FAHR harvesters are so widely renowned.

750 mm rotor

The heart of the RTS is a high inertia rotor of 750 mm diameter, capable of threshing and separating grain efficiently even under the most demanding conditions. The system is fed by a 460 mm diameter roller that has the effect of evening out the flow

and facilitating the threshing action. The rotor in turn is divided into 3 sections:

- Feed auger
- Threshing section
- Separating section

The material is threshed repeatedly against the surface of the grills, with centrifugal force ensuring that every last grain is propelled to the sieves.

Hydrostatic transmission

The rotor is driven by a LINDE hydraulic pump and motor. The operator can select between two speed ranges:

- from 175 to 785 rpm
- from 175 to 1,020 rpm

The optimum range can be selected according to the crop being harvested, and speed will then be controlled continuously from the on-board computer.

Another huge advantage of the DEUTZ-FAHR transmission is that the rotor and feed elevator drives are reversible: this means that any overloads can be corrected instantaneously, with significant benefits in terms of daily work rate and productivity.

Back beater

At the exit of the rotor, a further roller assists the removal of the straw. This roller accelerates the flow of material away from the rotor, and when brought

into operation serves also as a feed system for the straw chopper. The risk of overloading is reduced even further, even when handling particularly green and damp straw.



STRAW PERFECTLY CHOPPED, UNIFORMLY SPREAD.

ADVANTAGES

- ▶ High volume chopping rotor
- ▶ High performance built-in straw chopper
- ▶ Powerful flywheel effect generated by chopping rotor
- ▶ High efficiency chaff spreader with 4-blade rotor
- ▶ Easy access to chopping knives for maintenance purposes
- ▶ Centralized adjustment of counter-knives



The 7545 RTS combine is equipped as standard with a DEUTZ-FAHR high speed straw chopper. The working width the straw chopper ensures that the chopped material can be spread over the entire width of cut created even by the widest cutter bars. The generously sized rotor generates a powerful flywheel effect, which translates into an even and effective

cutting action, even on heavy or wet straw. With the knife blades easily accessible and the counter-knives extremely simple to adjust, time spent on maintenance and set-up operations is reduced to a minimum.

Together with the straw chopper, the new 7545 RTS has a chaff spreader with two 4-blade rotors positioned to take up ma-

terial from the sieves across the same working width as the straw chopper, so that straw and chaff can be mixed to best possible advantage, providing a readily degradable organic residue.

GREATER CLEANING CAPACITY MEANS HIGHER OPERATING EFFICIENCY OF THE MACHINE.

ADVANTAGES

- ▶ 6-turbine fan system delivering a constant flow of air to the sieves
- ▶ Opposed action sieve box and two drop steps
- ▶ Preparation floor with selective distribution auger
- ▶ Dual air flow outlet
- ▶ Generously proportioned grain tank of 9000 litres capacity
- ▶ Extra long discharge pipe
- ▶ Discharge rate: 90 litres per second
- ▶ Returns level monitoring system
- ▶ Discharge selected with joystick control
- ▶ 30 hp extra power during grain discharge



With grain discharged at a rate of 90 litres per second, the tank empties without delay and down time is cut to a minimum.



Grain collected and stored in the large capacity tank is kept perfectly clean as harvesting proceeds.

With a returns monitoring system, the operator can keep a constant eye on the capacity and productivity of the combine.

Cleaning

The high separation capacity of the threshing rotor calls for similarly high efficiency of the cleaning system. On the 7545 RTS, this balance is achieved using 6 turbine fans, a dual air flow outlet, and a double drop step from the preparation floor. A new feature exclu-

sive to the 7545 RTS is the system by which material is distributed actively over the preparation floor. This utilizes an auger, and a set of adjustable deflectors. The operator can regulate the distribution of the material on the single sectors of the preparation floor to suit the harvesting conditions, the type

of crop and the moisture content of the product, so that the ventilation system and sieves are always uniformly loaded, and the quality and capacity of the cleaning system optimized accordingly. Both the volume and the quality of the returns are kept easily under control, the one monitored and displayed by the on-board

computer, the other verifiable by way of a grain sampling flap on the right of the cab. With these ready references, the operator can fine tune the machine to best possible advantage and optimize its general capability as a result.

Enormous volumes – huge performance

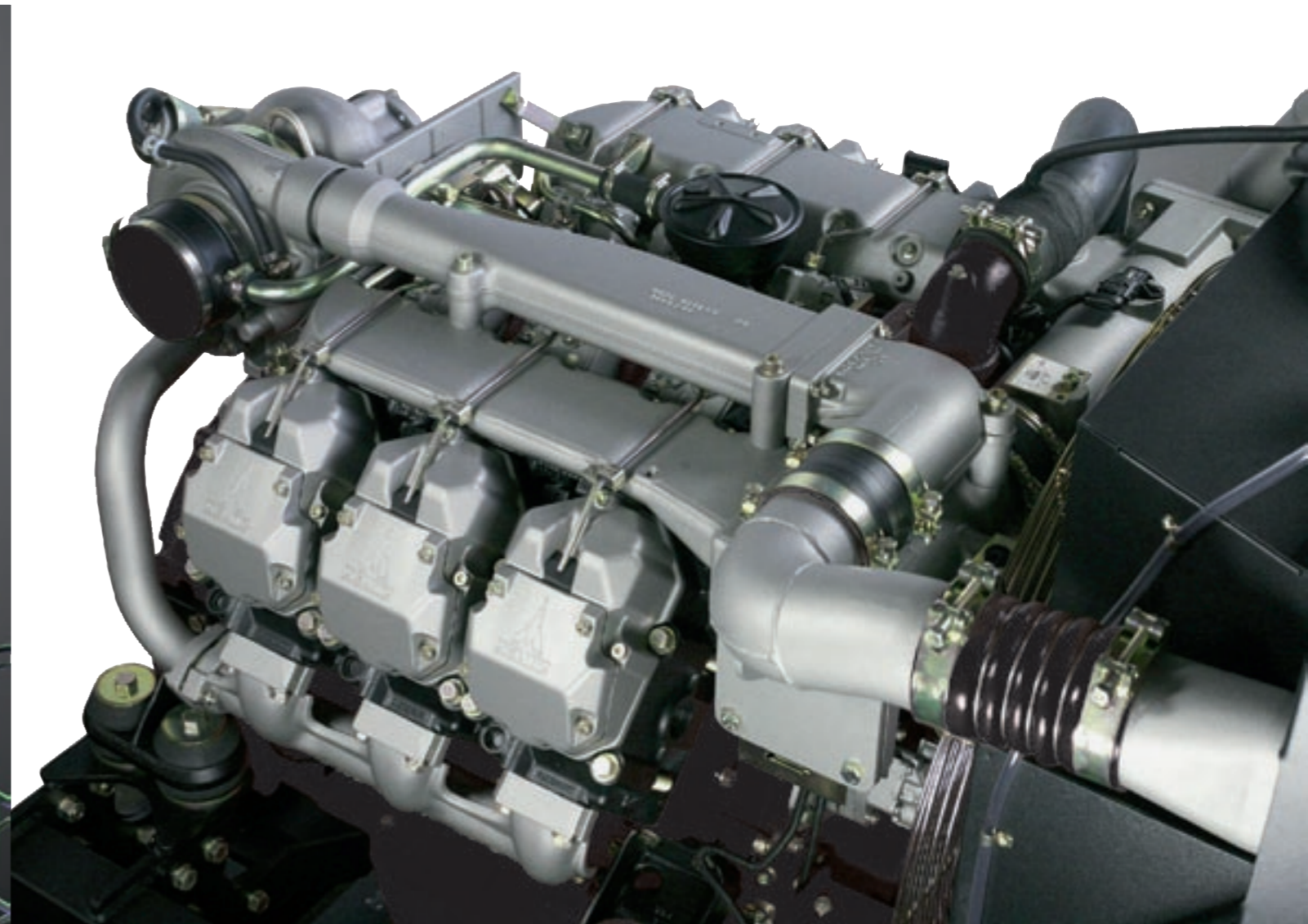
Fast and uninterrupted harvesting: The capacity of the 7545 RTS grain tank is an impressive 9,000 litres. An extra long discharge auger ensures there will be no problem reaching the trailer, even when using the widest cutter bars to exploit the enormous capacity of the machine.

The grain sampling flap is located directly within reach of the driver's seat, to allow spot checks on threshing efficiency. Just as easy to check is the amount of grain in the tank, whether indicated by the on-board computer (at 80% and 100%) or viewed directly through the sight glass.

NEW DEUTZ ENGINES SUCCEED IN THE MOST DIFFICULT CHALLENGE OF ALL: SURPASSING THEMSELVES.

ADVANTAGES

- ▶ DEUTZ 24 valve engines, with large displacement and ample power in reserve
- ▶ V engine: More compact, excellent accessibility and less vibration
- ▶ Electronic fuel injection with individual injector/pumps: Every last drop of fuel used to optimum effect
- ▶ Fuel tank holding 900 litres, for longer stints with fewer stops
- ▶ Spacious access platform for routine maintenance
- ▶ Proportionally-engaging 4WD as standard



Outstanding reliability, power to spare, low fuel consumption – these are the hallmarks of all DEUTZ engines, which naturally will give of their best even when fitted to a combine harvester – a heavy duty machine that demands maximum performance from its propulsion unit, day in and day out.

Quick and simple maintenance

Time spent on maintenance is certainly a factor that has significant influence on the running costs and the productivity of a combine. DEUTZ-FAHR combines set the standard where accessibility and serviceability of essential machine parts is concerned.

The 7545 RTS has a dedicated platform from which all key parts can be inspected in order to keep the combine harvester operating at maximum efficiency – engine, oil levels in the hydraulic system, and the two speed ranges of the threshing rotor.

Top performance, low fuel consumption

With 4 valves per cylinder, a fuel injection system utilizing individual injector/pumps, and electronic management, there is always plenty of power even for the toughest operating situations, which means that steady levels of productivity and efficiency are assured. This, in com-

bination with a highly effective rotary threshing system, enables DEUTZ-FAHR harvesters to achieve a level of fuel consumption per tonne of product among the lowest anywhere on the market.

Incomparable traction capability

To overcome even the most hostile working conditions, the 7545 RTS is equipped as standard with a proportional four wheel drive engagement system. Four wheel drive can be selected at any given moment without the risk of kickback through the hydrostatic transmission, so that all moving parts will be less affected by wear.

THE 7545 RTS CAB HAS ALL THE COMFORT AND TECHNOLOGY NEEDED TO DELIVER THE HIGHEST LEVELS OF EFFICIENCY.

ADVANTAGES

- ▶ Setting and supervision of combine functions via the ITM Monitor
- ▶ Spacious and well-appointed cab of superior ergonomic design
- ▶ New multimedia interface with touch-screen controls
- ▶ Yield mapping system
- ▶ All main cutter bar and driving functions controlled by way of the new multifunction joystick
- ▶ Emergency stop button immobilizing the entire combine
- ▶ Optimum visibility of entire work area
- ▶ Visibility Pack: CCTV camera at the rear and on discharge auger (standard)
- ▶ Maintenance Visibility Pack: Inspection lights for engine, grain tank and side compartments
- ▶ 6 work lights with xenon lamps



The cab of the 7545 RTS has been designed to offer optimum comfort in any working situation, and ensure that long days of harvesting and threshing can be made enjoyable and stress-free.

With optimum sound insulation, a clear view of the entire work area, and all the controls laid out for maximum ergonomic advantage, the operator is able to keep everything fully under control, adding value to the harvesting operation.

ITM

The ITM "IntelliTouch-Monitor" multimedia interface has a touch screen display by way of which the operator can utilize all the control and adjustment functions of the combine, as well as monitoring the productivity of the machine and the yield of the harvested plot. The 10.4" screen offers total visibility in all light conditions. The video pages are of a simple and intuitive design that will allow the operator to take complete control of the situation at

a glance, while still giving full attention to the threshing operation.

Multifunction joystick

This ergonomic control incorporates the functions most frequently used when threshing, in particular:

- Forward/reverse drive direction
- Operation of the reel
- Proportional reel speed control
- Manual control and float of cutter bar
- Autocontrol

- Unloading auger position
- Discharge on/off

Side console

Operating in parallel with the ITM monitor, the right hand side console gives direct access to the main controls of the combine, making the machine highly practical to use. And should electronic faults occur, the console buttons will bypass the ITM to ensure the 7545 RTS remains operational even in situations where functionality is reduced.

Agrosky

7545 RTS combines can be equipped with the (optional) Agrosky GPS automatic guidance system, which will enable positioning accuracy down to 2 cm. With Agrosky, the operator can focus entirely on the machine's harvesting functions, working in absolute comfort even with the widest cutter bars.



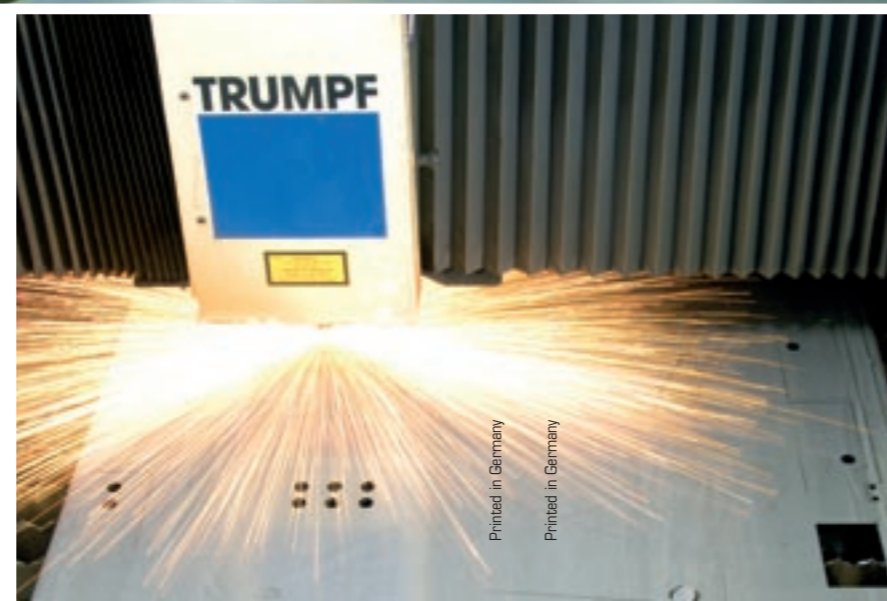
DEUTZ-FAHR COMBINES. QUALITY THAT LASTS.



Lasting value

The modern equipment and tooling used at the DEUTZ-FAHR factory ensure faultless assembly and high quality finishing of every machine made on the premises. All working parts of the combine are carefully calibrated and checked. Superior

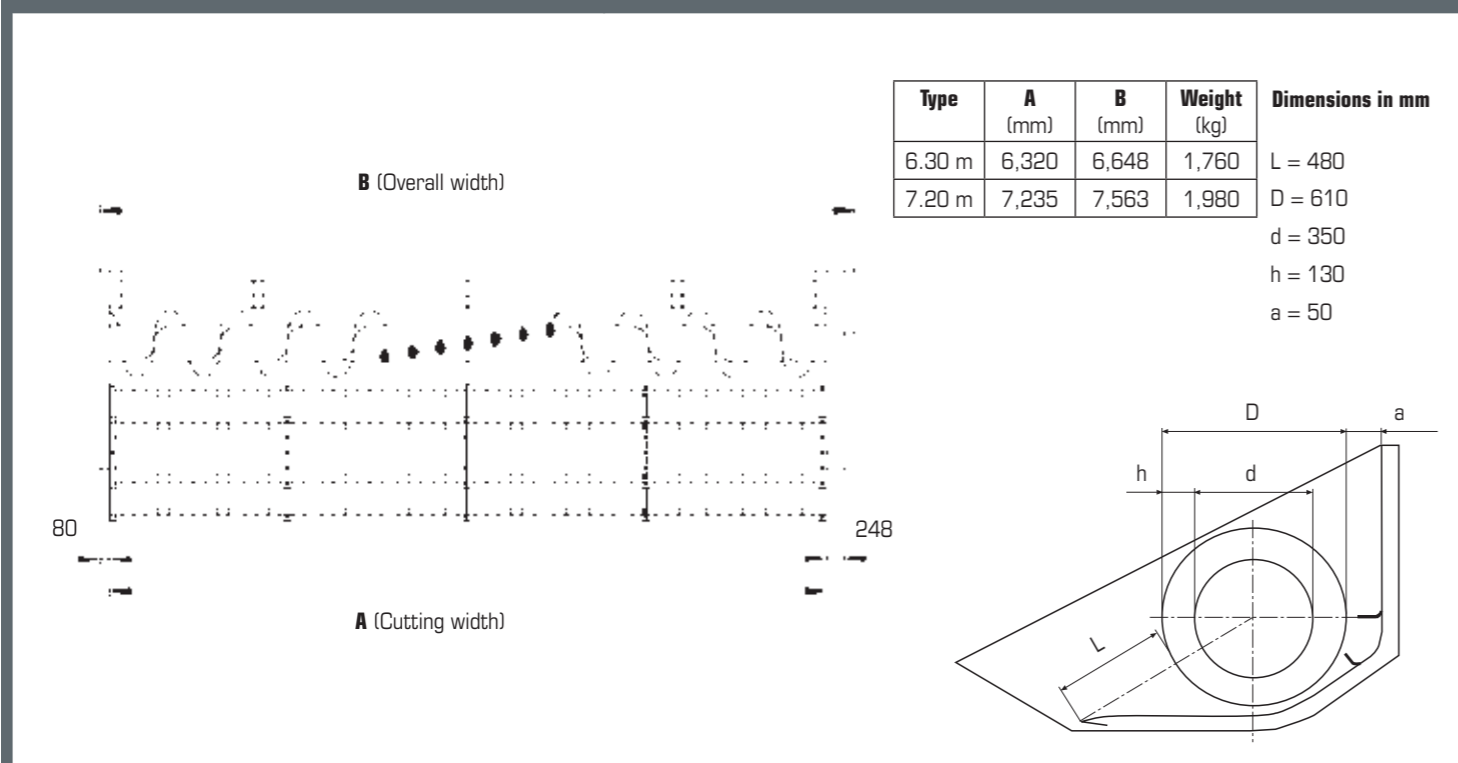
engineering expertise enables DEUTZ-FAHR to build machines incorporating high technology and guaranteeing long service. This means that DEUTZ-FAHR combine harvesters are able to hold a high resale value, inspiring confidence in the initial investment.



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TECHNICAL DATA.

Type	7545 RTS	
Cutter bar		
Cutting width	6.30-7.20	
Hydraulic cutting height adjustment	mm	from -300 to +1,370
Cutting height indicator	standard	
Oil-immersed planetary knife drive (1,220 cuts/min)	standard	
Long right and left crop dividers, fixed	standard	
Number of ear lifters	20 to 23, depending on cutting width	
AutoControl (with lateral float)	standard	
Transporter towing hitch	standard	
Header transporter	on request	
Hydraulic multi-coupler	standard	
Automatic towing hitch	on request	
Rapeseed conversion kit for bar with side cutter on right operated by separate hydraulic control	on request	
Side cutter on left, operated by separate hydraulic control (for rapeseed header only)	on request	
Sunflower conversion kit for cutter bar	on request	



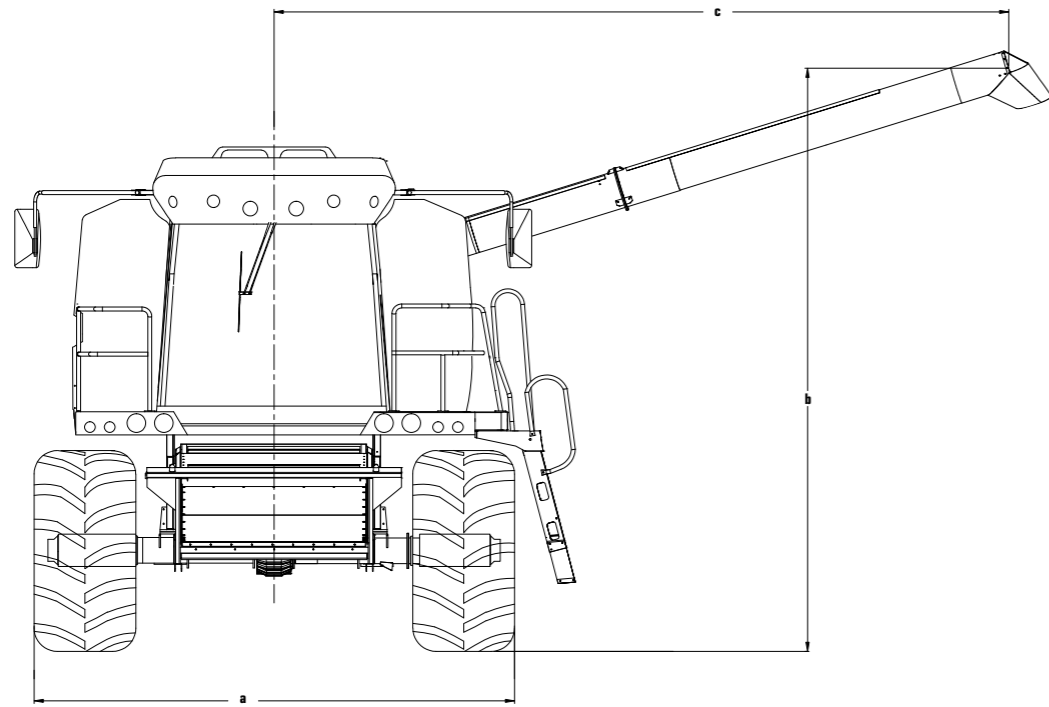
Pick-up reel	
6-bar reel with hydraulic height adjustment	standard
Hydraulic horizontal adjustment	standard
Electric speed control	rpm stepless from 16 to 45
Automatic adaptation of reel speed to ground speed	standard

Type	7545 RTS	
Feed elevator		
Pivotable interface with cutter bar	standard	
Heavy duty feed chains	No.	4
Drive reversible hydraulically	standard	
Feed roller		
Diameter	mm	460
Width	mm	1,550
Feed bars	No.	8
4 speeds	rev/min.	standard
Rotor		
Diameter	mm	750
Overall length	mm	3,150
Threshing section surface area	m ²	1
Wrap angle of threshing section	°	140
Separation section surface area	m ²	1.4
Wrap angle of separation section	°	160
Threshing section concave	3 segments	
Electrically adjustable concave grille	standard	
Rotor hydrostatic drive		
Linde pump rated 210l/min	standard	
Rotor and feed elevator drive completely reversible	standard	
2 speed rotor gearbox	rev/min.	175 - 785 / 175 - 1,020
Rotor speed controlled from ITM	standard	
Back beater		
Diameter	mm	430
Width	mm	1,550
Bars	n°	5
Active straw chopper feed	standard	
Straw chopper – chaff spreader		
High volume straw chopper with manually adjustable spread width	standard	
Chaff spreader	standard	

Type		7545 RTS
Cleaning system		
Preparation floor with selective distribution auger		standard
High performance 6-turbine fan		standard
Dual air flow outlet		standard
Pre-sieve		standard
Sieve box illumination		standard
Opposed action sieves		standard
Total ventilated sieve surface	m ²	4.78
Returns		
Returns level and potential overload monitored electronically		standard
Returns to rotor		standard
Grain tank		
Capacity	l	9,000
Unloading in any position		standard
Visual and audible grain tank level indicator		standard
Interior light		standard
Grain sampling from driving position		standard
Extra long discharge pipe		standard
Discharge rate	l/sec	90
Overpower during grain discharge		+ 22 kW/+ 30 PS
DEUTZ 4 valve engine		
TCD 2015 V6 4 Valves – 6 cylinders 11,910 cm ³ liquid cooled	kW/HP	331/450
Electronic management		standard
Fuel tank capacity	l	900
Transmission / Brakes / Steering		
Hydrostatic transmission with 3-speed gearbox		standard
Forward speed	km/h	0-25
Proportionally-engaging four wheel drive		standard
Linde hydrostatic pump and motor	cm ³	135
Standard tyres, front		800/65 R 32
Standard tyres, rear		440/80 R 24

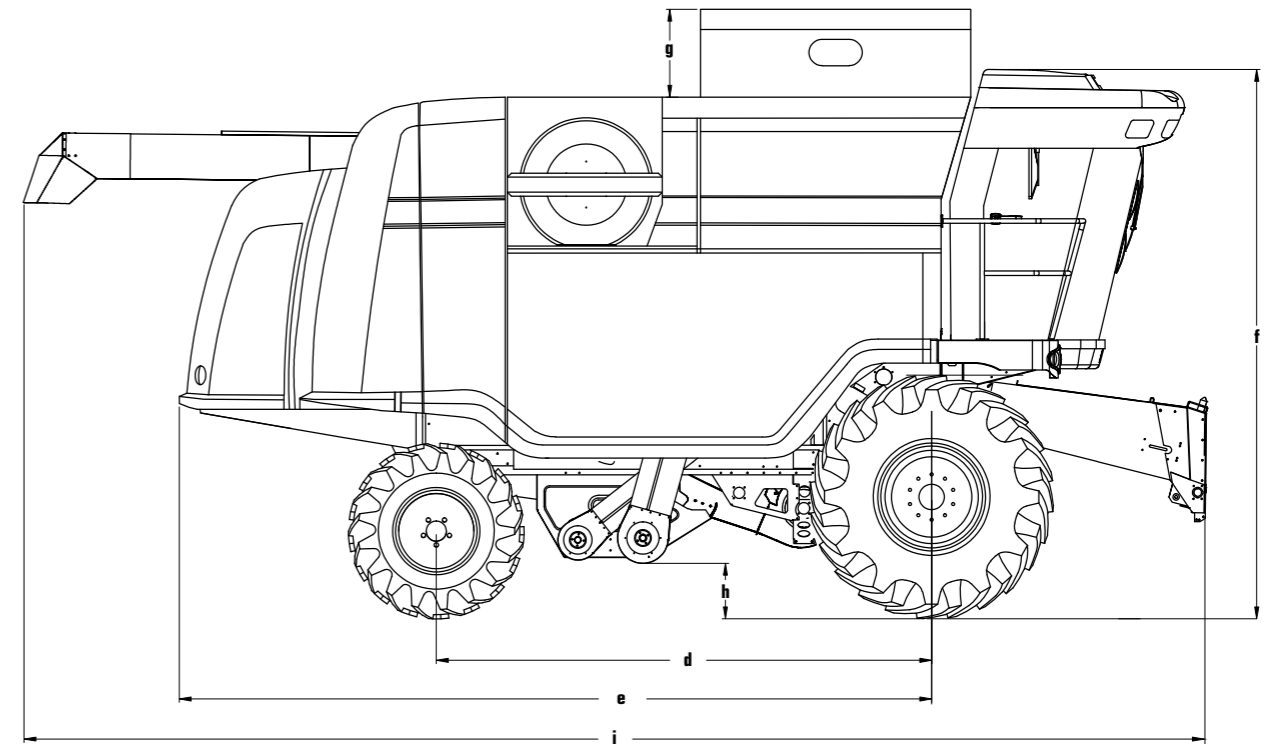
Type		7545 RTS
Cab		
ITM monitor: 10,4" touch screen, direct setting of combine functions, management of alarms, productivity and yield mapping		standard
Multifunction Joystick Incorporating: Bar control, reel control, proportional reel speed, Autocontrol, deploy/retract discharge pipe, activate grain discharge		standard
Air suspension driver's seat		standard
Co-driver seat		standard
6 xenon work headlights on cab, 1 work light on grain tank		standard
Electronic weighing		standard
Electronic moisture meter		standard
Maintenance Visibility Pack: maintenance work lights (1 each side, 1 in engine compartment)		standard
Camera Visibility Pack: Rear CCTV camera or rear camera + discharge pipe camera		standard
Heater and aircon		standard
Weights		
Without cutter bar		16,000

DIMENSIONS.



Type		
Dimensions in mm		
a Width ¹⁾ without cutter bar		3,790
Width with cutter bar	6.30m	6,648
	7.20m	7,563
b Height at lower edge of grain discharge outlet with standard tires		4,500
c Distance from grain discharge outlet to middle of machine		5,925

¹⁾ with standard tires



Type	
Dimensions in mm	
d Wheelbase	3,663
e Length from front axle to discharge outlet	5,575
f Height of cab during transport ¹⁾	4,000
g Height of grain tank extension ¹⁾	650
h Minimum ground clearance	410
i Overall length without cutter bar	8,660

¹⁾ with standard tires



SURE AND SAFE WITH ORIGINAL DEUTZ-FAHR.



Original service is wise.

Without doubt – many can repair much. But only your DEUTZ-FAHR specialist dealer knows your combine inside and out. Only your dealer has regularly trained mechanics and experts on call. Only your dealer has the special tools and diagnostic equipment required for competent diagnosis and inspection. All this gives you peace of mind – without doubt.

Original parts make good sense.

As you placed your trust in the original combine, we recommend you use original parts when required. Only these comply with the high quality and safety standards of DEUTZ-FAHR and ensure correct function and operation without problems – guaranteed.

DEUTZ-FAHR lubricants

We recommend genuine DEUTZ-FAHR lubricants. The outstanding quality of this product range, which is made exclusively for DEUTZ-FAHR, ensures that your combine always receives exactly what it needs.



Your DEUTZ-FAHR dealer will be pleased to answer your questions:

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