

Technical specifications		TORUM 765
Header part		
Power Stream Header ¹		●
Header coverage (working width)		6.0/7.0/9.0
Cutter drive – planetary gearbox		●
Automatic synchronisation of the reel rotation speed and a combine ground speed		●
Lifters		○
Transportation cart/rack		○
Autohitch for cart		●
Feeding		
Feeder type		beaters
Relief copying electrical and hydraulic system		●
Single hydraulic jack		●
Threshing		
Thresher type		rotary with rotating concave
Rotor diameter, mm		762
Rotor length, mm		3 200
Rotor concave coverage, deg.		360
Overall concave area (threshing and separating parts of rotor), sq. m.		5,40
Rotor speed (with reduction gearbox), RPM		250–1 000
Cleaning		
Cleaning system type		3-screen (2 stages)
Overall area of screens, sq. m.		5.2
Electric adjustment of screens from the cab		●
Final threshing device		standalone
Bunker		
Bunker capacity, liters		12 000
Discharge/unloading rate, l/sec		105
Discharge/unloading height, m		5.40
Hydropulsators		●
Independent discharge (by portions, in any position of the unloading auger)		+
Processing of the non-grain part of the harvest		
Shredding drum speed, RPM		1 600 / 3 400
Number of blades, pcs		76
Adjustment of the spreading angle from the cab		●
Chaff spreader		built-in, within shredder
Cab		
Comfort Cab II with Adviser III system ^{2,3}		●
Autopilot system		○
Yield and humidity mapping system		○
Unloading zone video monitoring system and back monitor		○
Automatic central lubricating system		○
Chassis		
Transmission		hydrostat
Wheelbase, mm		3 817
Drive wheels track, mm		3 120
Drive wheels tyre		900/60R32
Steering wheels tyre		500/70R24
Detachable half-track mounting		○
All-wheel drive		○
Air compressor		●
Engine		
Manufacturer/make		Cummins QSG 12 (Stage IV)
Engine capacity, arrangement/architecture, liters		11.8 L6
Power, kW/hp		383 / 520
Fuel tank capacity, liters		850
Fuel flow monitor system		●
Dimensions and mass		
Length/width/height (without header, in transportation position), mm		10 986/3 675/3 975
Weight (basic model with shredder, without header, no fuel), kg		16 350

● – standard, ○ – option

- ¹ Power Stream
- universal grain header with increased table, hydraulic reel drive, reaping parts reverse controlled from cabin, reel speed synchronization with the harvester ground speed.
- ² Comfort Cab II
- leaf-spring equipped, pressurized, double-seat cabin with audio system, reinforced noise insulation, equipped with air conditioner, heater and cooling box.
- ³ Adviser III
- information system with color sensor 10” display and voice notification.

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TORUM 765

grain harvester



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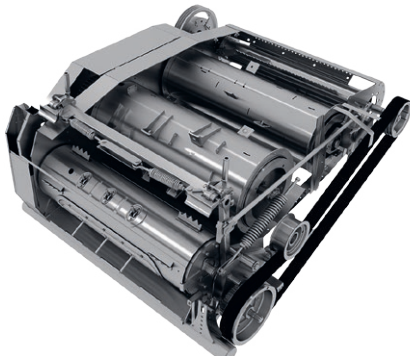
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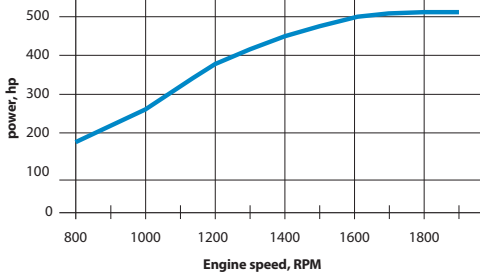
Feed&Boost

Basic feature of the Feed&Boost system is that the traditional chain-and-slat conveyor is replaced by three feed beaters with special fingers. This will greatly improves the stability of the process and, as a consequence, will increase the performance of the combine harvester. Beaters of the feeder spread and accelerate the mass in front of the rotor ensuring a stable process. Studies showed that, as compared with conventional slatted conveyors, beaters increase the capacity of the feeder by 20%, while the power consumption is reduced by 15%. This scheme is especially effective when working on uneven swathes, with high humidity and debris in the mass, with rice, in some other harsh conditions.



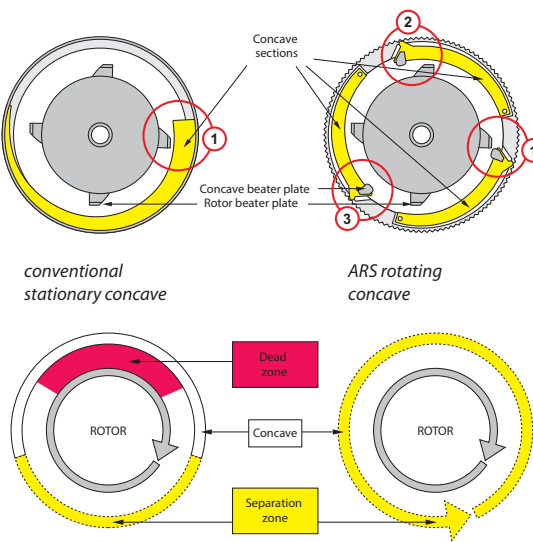
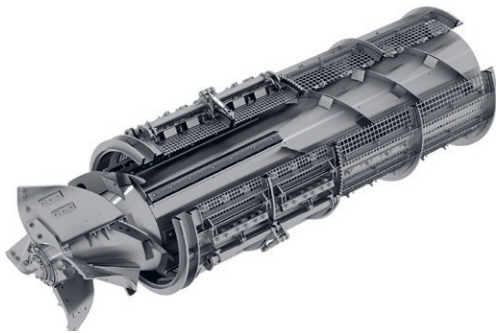
New engine

TORUM 765 is equipped with six-cylinder, L6, Cummins QSG 12 (520 hp, Stage IV). The engine have excellent performance with low fuel consumption (6 per cent less than Stage IIIB engine) and wast torque reserve. The air cleaning system uses an intake mesh with forced rotation (from the hydraulic motor), which significantly reduces the costs for maintenance.



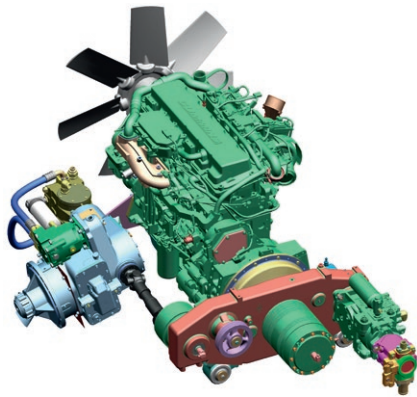
Unique 3-point threshing system

The concave has three threshing sections allowing to set a working gap in each section. Thanks to this the mass threshes three times in one round of the rotor unlike the single contact in other conventional rotor units.



Rotating concave

Rotation of the concave provides its self-cleaning, guarantees no «dead» zones in the gap, prevents mass stoppage and clogging of the rotor. In addition, energy consumption during the threshing process is reduced by 8–10%.



Comfort Cab II cabin with Adviser III information system

TORUM 765 have Comfort Cab II which was designed for long operating days. A large glass panoramic screens provides an excellent visibility of the header during harvesting. Training seat, cooler, air-conditioner and sun visor are incorporated for the operator comfort. Information system Adviser III with voice notification controls all main elements to ensure the best performance.



High quality of straw

The separating part of the rotor has the auger-type winding. Due to this, TORUM unlike conventional rotary combine harvesters treats straw very gently.



Up to the last grain

Before getting into the shredder, the straw mass undergoes a final separation through the beater with the grate-type concave installed at the rotor output.



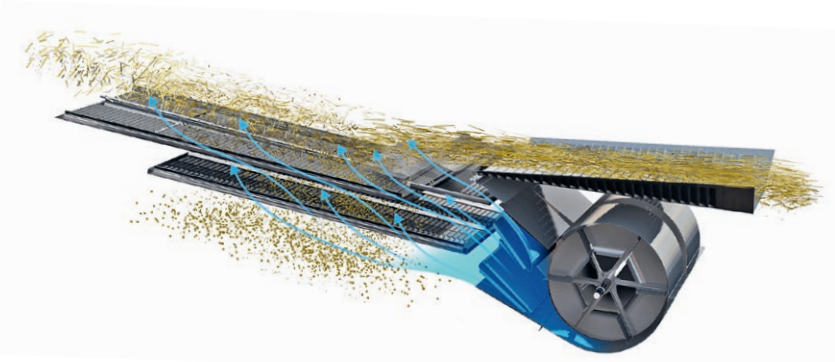
Shredder with integrated chaff spreader

Chaff & straw flows to it in a plain way, finally all the shredded mass spreads on the field uniformly.



Maximum clean

The two-section cleaning system with screen area of 5.2 m² is in balance with outstanding features of the rotor. This system is well-balanced: the agitation board and the lower screen moves in one direction, and the massive part of the upper screen – in the opposite direction. The powerful two-section fan blower with hydraulic drive generates uniform air flow through the fan mesh and prevents dead zones emergence, as air inlet goes not only out of ends, but out of the middle, too. It provides the really clean grain.



Faster, higher, better

Clean grain goes into the bunker with capacity of 12,000 liters. Such volume allows increasing efficiency by reducing the number of discharge pauses. The unloading rate is 105 l/sec, the entire bunker discharges within 2 minutes. The unloader auger has sufficient dimensions to fit any vehicle. The convertible roof, fill level sensors, hydropulsators and other features provide additional convenience and increase operation capacity.

