

Technical Data

Headers	
Power Stream ¹ Grain Header, m	7/9
Float Stream Close-Cut Header with flexible cutterbar, m	7/9
Swa Pick 432 Windrow pickup, m	4.3
Corn headers, rows	8/12
Sunflower headers, rows	8/12
Reel-to-ground speed synchronisation system	●
Electrohydraulic contour following system	●
Single-point hydraulic coupler	●
Crop lifters	○
Header trailer	○
Thresher	
Thresher width, mm	1,500
Stone trap	●
Advanced Rotor System (ARS) ²	●
Rotor diameter, mm	762
Total rotor length, mm	3,200
Rotor drive	hydromechanical
Rotor speed, rpm	250 – 1,000
Concave coverage, deg.	360
Total threshing and separation area, sq.m	5.40
Sieve area, sq.m	5.20
Cleaning fan speed, RPM	335–1,050
In-cab electrical adjustment of sieves	●
Stand-alone re-threshing rotor-type unit	●
Grain tank with unloader	
Grain tank capacity, L	12,300
Minimum unloading rate, L/sec	120
Unloading height, mm	5,400
Vibratory agitators	●
Crop residue adapters	2-speed chopper/spreader, integrated chaff spreader
Spread angle adjustment from the cab	●
Cab	
Luxury Cab ³ configuration	●
Adviser III ⁴ information system information system	●
Automatic driving system	○
Yield and moisture mapping system	○
Unloading zone video monitoring system and back monitor	○
Automatic centralized lubrication system	○
Return-for-rethreshing assessment system	○
Agrotronic remote monitoring system	○
Chassis	
Transmission	hydrostatic
Gearbox	3-speed
Travelling speed, km/h	0–27
Driving wheel tyre type (option)	(680/85R32)
Steering wheel tyre type	500/70R24
Removable half-tracks	○
Double wheels	○
Engine	
Manufacturer/make	Cummins QSG 12 (Stage IV)
Power rating, kW (h.p.)	383 (520)
Fuel tank capacity, litres	850
Fuel consumption monitoring system	●
Air compressor	●
Overall dimensions and weight	
Length/width/height (in the travel position, without header), mm	10,986/3,897/3,975
Weight (standard configuration, without header and fuel), kg	17,220±516

● by default ○ option

- ¹ **Power Stream** — versatile grain header with an extended table, hydraulically-operated reel drive and header reverser controlled from the cab.
- ² **ARS** — axial rotor with rotating concave, continuously variable-ratio rotor drive.
- ³ **Luxury Cab** — spring-mounted airtight two-seat cab with fittings for the audio system, improved noise insulation, air conditioner, heater, cool box, operator seat with integrated control panel.
- ⁴ **Adviser III** — information system with 10" colour touchscreen display and situational framing.

ROSTSELMASH reserves the right to improve individual machine characteristics without prior notice to the market

Combine Harvester TORUM 770



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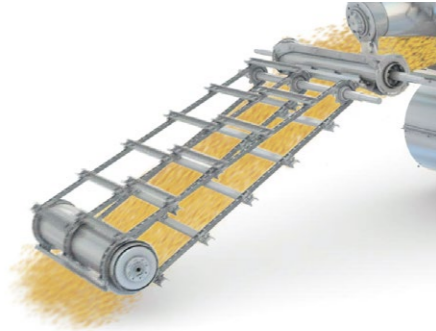
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ROSTSELMASH

1. Feeder house

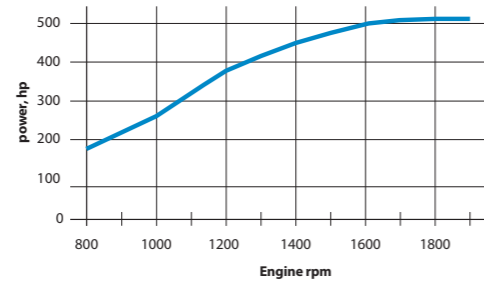
New generation feeder house significantly increases the harvester functionality and operational comfort for different crops. Basic configuration features a single hydraulic coupling, adjustable angle for higher performance and ease of harvesting of any crops without making any modifications, with quick adapters connections (headers of 4,500 kg weight).



2. Engine set 520 h.p.



TORUM uses the engine L6, Cummins QSG 12 (520 h.p., Stage IV). Powerful and compact engine has good specific fuel rate and torque backup up to 20%. The air cleaning system uses air intake mesh with forced rotation (from the hydraulic motor), which significantly reduces the complexity of maintenance.



3. Power Stream header

Power Stream header guarantees improved performance by reducing losses and optimal crop gain. This header proved in practice that due to its original cutterbar with a planetary drive minimizes shattering losses and ensures consistent uniform feeding whatever harvesting conditions may be. The reel hydraulic drive featuring a synchrodrive automatically adjusts the reel speed to match the ground speed.



4. Cabin Luxury Cab II with information system Adviser III

TORUM harvesters are provided with the new cabin Luxury Cab. The volume of new cabin exceeds 4 sq. m. and creates really comfortable operating conditions. Once you are in, you'll know how comfortable a workplace can be. You will enjoy the comfort that does help work more efficiently with less stress and fatigue. The Adviser III voice information system continuously monitors the threshing process and the functioning of harvester mechanisms, and allows to monitor the process stability and prevent the failure of units.



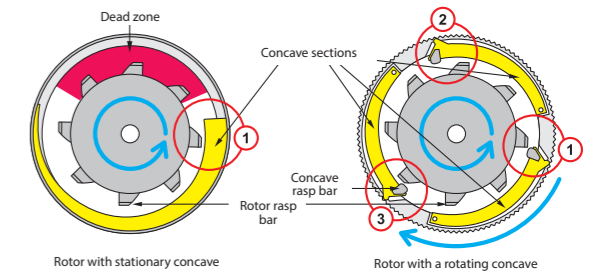
5. Operation in extreme conditions

For severe conditions the harvester allows AWD installation, for extreme conditions the modification with replaceable halftrack unit and AWD is foreseen. Besides, in basic configuration the power of the drive in transmission hydraulic drive is increased so that the harvester can easily climb the hills with grain tank filled.



6. Advanced Rotor System with a rotating concave

In a rotary harvester with stationary concave the concave area is not used completely, therefore possible performance indicators are reduced. Except for incomplete use of the concave area, when harvesting damp crops, rice the upper part of the concave is clogged (the so called dead zone). The rotating concave allows using 360° of the concave surface, prevents formation of dead zones and rotor clogging. Besides, the concave has three threshing sections allowing to set a threshing gap in one section. Thanks to this the mass is threshed three times with one round of the rotor unlike the single threshing in conventional rotor units. The same principle allows setting the increased threshing clearances. No additional adjustment of concave is required depending on crop harvesting conditions: for crops from barley to wheat the threshing clearance is set within the range of 16–20 mm.



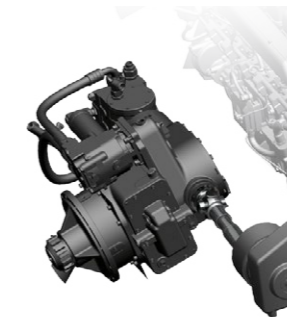
7. Quick unloading

Clean grain goes into the tanker with capacity of 12,300 litres. Such capacity increases performance efficiency by reducing unload cycles. The unloading rate is 120 l/sec, the entire tanker is discharged within 2 minutes. Unloading auger length is increased and makes up 7.5 m, unloading height — 5.4 m, extend angle — 105 degrees. The grain can be easily unloaded into any trucks and trailers, while using a header with a width up to 14 m, when harvesting rice unloading can be done without leaving the bay. For fuel efficiency, the thresher drive can be disengaged.



8. Variable ratio rotor drive

The rotor is driven by the planetary CVT with hydraulic control – a unique hydro-mechanical device, which combines the advantages of both types of drives: smooth and accurate speed control, high bearing force and reliable beltless transmission.



9. Easy servicing

The air compressor (included in the basic package for all TORUM models) saves a lot of time for daily maintenance, especially in the field, when the technical support car is not available. To reduce the maintenance labour hours the harvester is optionally equipped with automatic centralized lubrication system.

