

Self-Propelled
Combine

NIVA



TRAKTOROEXPORT

The NIVA universal grain combine will help you to harvest the crop quickly and without losses.



the material moves on the pan, the tossing action effects preliminary separation by causing grain to settle and chaff to remain on top. The material falling through the finger grate becomes loosened, which facilitates further separation. Under the action of a fan blast and oscillation of the sieves grain and heavy material fall down, whereas chaff and light debris are blown out. Unthreshed heads are sifted off to a tailings auger and returned by an elevator and a small auger to the drum for rethreshing.

The cleaned grain gets into a grain auger and is delivered by an elevator into the grain tank. The grain in the tank is levelled by a distributing auger. From the tank the grain is delivered by an unloading auger into transport vehicles.

In windrowing, the crop cut by windrowers is taken by a pickup attached to the header and is delivered by the feed conveyor into the threshing unit to undergo the same process as in direct combining.



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Specifications of NIVA Combines

	SK-5	SKP-5
Width of cut, m	3.2; 4.1; 5 and 6	
Engine horsepower	100	
Throughput, t/h	up to 8	up to 7.2
Height of cut, mm	50-950	
Thresher width, mm	1200	
Drum diameter, mm	600	
Drum speed range, rpm	320-1365	
Grain tank capacity, m ³	3	
Ground clearance, mm	380	470
Travel speed, km/h	1.04-18.7	0.54-9.6
Straw collector capacity, m ³	9	
Overall dimensions, mm:		
Length	10920	
Width	5300	
Height	4020	4100
Mass (with 5 m header), kg	7500	9060
Labor required	One operator	

The specifications are subject to change without notice.



TRAKTOROEXPORT

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We make available a family of the NIVA self-propelled grain combines. There is a wide choice to match your needs.

The basic machine of the NIVA family is the SK-5 wheeled combine with one beaterbar drum.

The SKP-5 combine, a modification of the SK-5 model, has changeable half-tracks for use on wet soils.

To suit the working conditions, the combines can be equipped with a straw and chaff collector, a straw and chaff swather, and a chopper arranged to deliver the chopped material into trailers or to spread it over the field.

The main units of the NIVA combines are as follows: header with feed house; threshing unit with threshing, separating, cleaning and grain-handling mechanisms; grain tank with unloader; hydraulically operated straw collector; running gear; power unit; cab with controls and instruments; hydraulic system; electricals.



The NIVA combines are equipped with an automatic thresher feed regulator, grain loss indicator, drum tachometer, speedometer and other instruments.

Salient feature: hydraulically operated straw collector deposits straw piles onto the ground for subsequent transport.

The combine is a one-man machine designed with thorough thought for the operator's comfort. The cab is equipped with a soft seat, precleaned air ventilation system, heater, electric windshield wiper, lighting, drinking water reservoir and first-aid kit. Metal screens provided on the cab roof and front and rear walls, window shades protect the operator from sunlight. All the main controls, instruments and signal lights are located in the cab.

The steering is powered by a displacement hydraulic system.

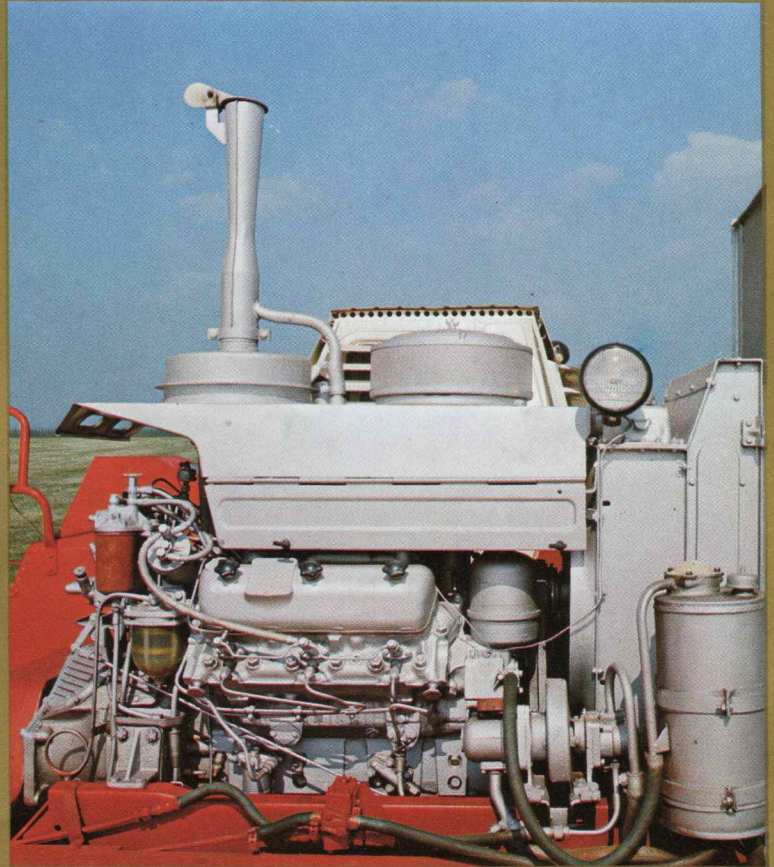
The hydraulic system consists of two independent systems, main and steering, and provides power for raising and lowering the header and reel, cleaning the air intake, operating a vibrator to

facilitate the unloading of grain from the tank, varying travel speed and reel speed, closing the straw collector gate, and assisting the steering control.

To suit Customer's requirements, the NIVA combine is available with the header of various cutting widths.

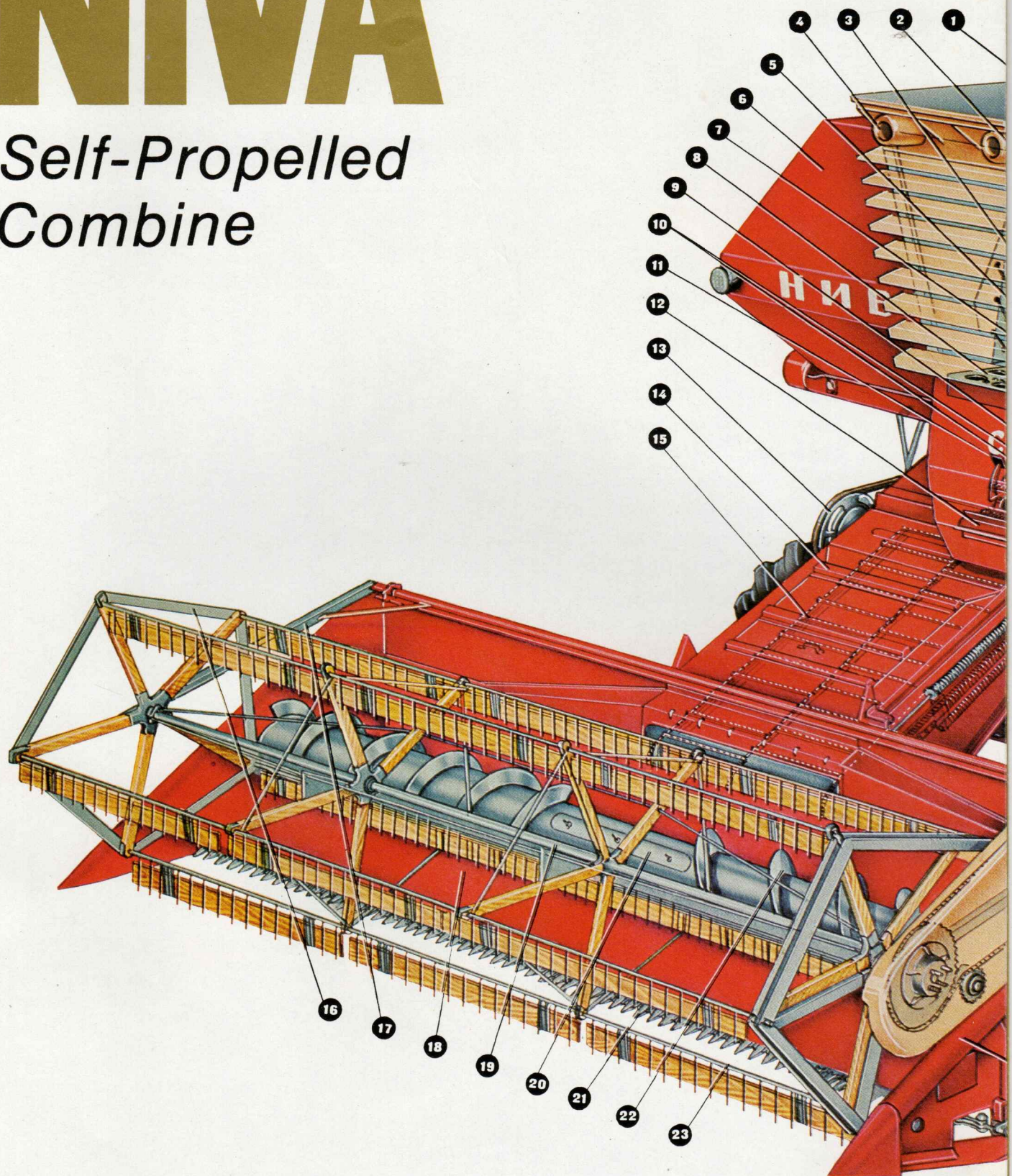
The direct combining process is as follows. The reel pushes stalks against the cutterbar. The cut material is delivered by the auger towards the centre of the platform where the auger retractable fingers carry it to an inclined conveyor for the material to be fed to a beater and thence to a threshing drum. The greater part of the threshed grain and chaff falls through the concave grate onto an oscillating pan. The rest of the material is thrown by the beater onto the straw rack whose walkers perform further separation of grain and chaff. The straw is discharged from the machine into the collector or other collecting facilities.

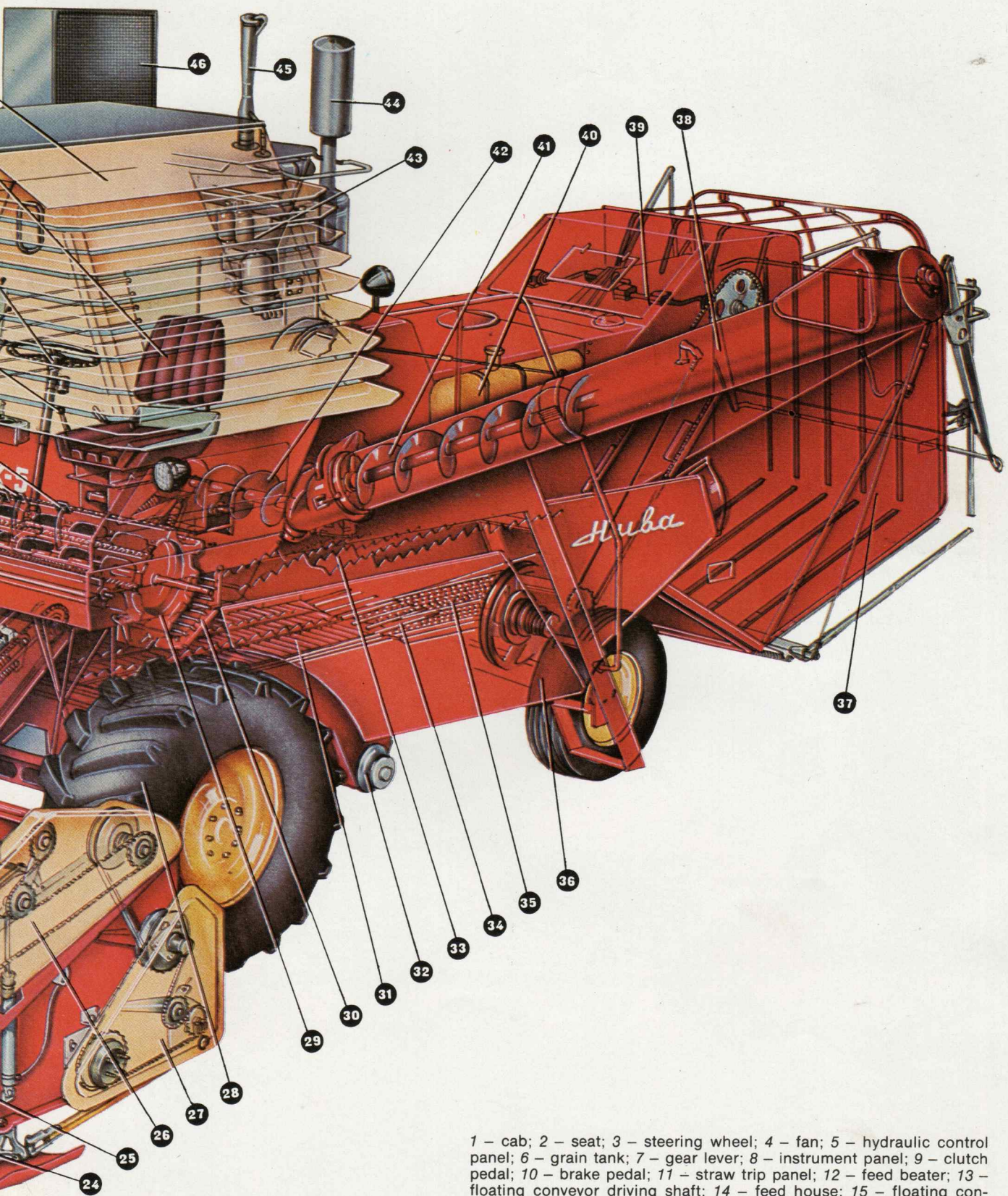
The oscillating pan conveys the material to the finger grate. As



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1 - cab; 2 - seat; 3 - steering wheel; 4 - fan; 5 - hydraulic control panel; 6 - grain tank; 7 - gear lever; 8 - instrument panel; 9 - clutch pedal; 10 - brake pedal; 11 - straw trip panel; 12 - feed beater; 13 - floating conveyor driving shaft; 14 - feed house; 15 - floating conveyor; 16 - guard plate; 17 - right reel arm; 18 - header platform; 19 - reel shaft; 20 - feed auger; 21 - cutterbar; 22 - header auger; 23 - reel bar; 24 - knife rocker; 25 - left divider; 26 - reel drive guard; 27 - cutterbar drive guard; 28 - front driving wheel; 29 - threshing drum; 30 - concave; 31 - oscillating pan; 32 - grain auger; 33 - walker; 34 - chaffer finger grate; 35 - upper sieve; 36 - steerable wheel axle; 37 - straw collector; 38 - unloading auger; 39 - straw packer mechanism; 40 - fuel tank; 41 - auger; 42 - grain tank auger; 43 - engine; 44 - air cleaner intake pipe; 45 - exhaust pipe; 46 - air intake