**HARVESTING TECHNIQUE**

Increased productivity, high- quality grain threshing , reduced costs, reduced maintenance time - all of this was implemented in the new improved version of the SKIF 280 Superior combine harvester.

Ideal for medium and large farms, the Skif 280 Superior reliably works on all types of grain, corn and sunflower in all climatic conditions.

It’s the modern combine that combines in it - high reliability, advanced technology and innovative system solutions that ensure minimal fuel consumption and low- cost of bunker grain. The new ZP 63Light Effective reaper, with fingers of reel made of high-strength polymer, even in low-yielding fields, ensures careful and efficient feeding of the plant mass to the combine harvester-cutting unit (MCP). Two-drum threshing system with hexagonal straw -shaker, in which an additional CSP straw-turner cylinder is installed, two-stage cleaning ensure the high productivity of the harvester with minimal grain losses.

Due to the increased volume of the bunker of 8.1 m³, the time between the discharge increases, this is positively reflected in the high productivity of the combine.

The AGCO Power 634 DSBA / AGCO Sisu Power 744 CTA-4V with a capacity of 280 hp is installed on the combine, which, together with a 450 liter - tank, allows the combine to work more than 12 hours without refueling. The sufficient excess power ensures stable operation even at high operating loads. The three-speed gearbox with hydrostatic transmission provides a maximum transport speed of 25 km / h, which reduces the non-productive transport time.

The panoramic, comfortable Premium Plus cabin due to the ergonomic arrangement of devices, a wide range of seat adjustment with the control panel and steering column, air conditioning and heater options make it possible to create comfortable conditions for efficient work.

The Skif 280 Superioir has maximum automated control system for the operating organs and the information system with the Sentry 6510 performance monitor, firm Teejet Technologies, which reduce the operator's work, increasing the productivity of gathering .

SKIF 280 Superior’s capacity is 12 kg / s.

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| Lattice mill |  | Harvester for harvesting corn |  |
| Total separation area, including : | 4,5 м2 | Working width in standart | 6,3 |
| - empty glume (сhaffer sieve), м2  - grain (shoe sieve), м2 | 2,3 + 0,4  1,8 | Reel’s diametr, м | 1,05 |
| Straw-carrier fan | electric | Turnover frequency of reel ,rpm | 0...50 |
| Scrap breaking –spreading unit for straw | + | Drive of reel’s turnover | hydraulic |
| Corn tank |  | Regulation of reel’s displacement | hydraulic |
| Volume , м3 | 8,1 | Quantity of double stroke by hand-agregate’s knife , moves per minute | 1020 |
| Loading height , м | 4,4 | Reel’s revers | hydrostatic |
| engine | AGCO Power 634 DSBA/AGCO Sisu Power 74 CTA-4V | Threshing –separating unit |  |
| Power , к.с. | 260 (276) | Threshing drum |  |
| Frequency of turnover , rpm | 2000 | Width , м | 1,33 |
| Quantity of cylinders , pc. | 6 | Diameter , м | 0,5 |
| Volume of fuel bank , l | 450 | Quantity of whips , шт | 8 |
| Тransmission |  | Frequency range of turnover  rpm | 400 ... 1150 |
| Drive | hydrostatic | Range of turnover | 600...1300 |
| кількість передач | 3 | Regulation of speed rotation | Electric |
| Max speed ,  km/hours | 25 | Rice harvesting set | Option |
| Speed range |  | Pre-threshing drum |  |
| on 1 range , km/hours | 0...6,6 | Width , м | 1,33 |
| on 2 range , km/hours | 0...10,7 | Diameter, м | 0,4 |
| on 3 range , km /hours | 0...25 | concave |  |
| Turning radius , м | 8 | Quantity of strips , pc. | 12 |
| Full drive | Option | The area of separation of the main concave | 0,62 |
| tires |  | Angle of the grip | 105 ° |
| Front | 650/65R38 157А8 | Clearance adjustment range , мм | 6...42 |
| Back | 480/65R24 133А8 | Clearance control | Electric |
| Width of the track: |  |  |  |
| Front wheels , м | 2,78 | The area of separation of the previous drum/the total area of separation during threshing , м2 | 0,41/1,03 |
| Rear wheels , м | 2,61 (2,8 при 4 WD) | Straw rack |  |
| base, мм | 3920 | Keys , pc | 6 |
| Cabine |  | Straw rack’s area of the separation , м2 | 6,3 |
| Cab type | Premium Plus | Cylinder -straw kicker CSP | + |
| Combiner seat | Fixed lux class | Overall dimensions |  |
| Assistant’s seat | firmware | Length with harvester /without harvester , м | 10,7/9,05 |
| heater | + | Width with harvester /without harvester , м | 6,9/3,5 |
| Air conditioning | + | Height , м | 3,95 |
| Noise level, dmb | No more 80 | Mass with harvester , кг | 14300 |
| Steering column | Adjusted down the angle of inclination and height of the steering wheel position |

**Harvester for harvesting corn KMS**

**Machine provides low cut and high quality of grinding corn’s stalks at optimum harvesting speeds. Modern design of the units, simple and reliable in operation machine , due to its versatility, KMS-8 easily and quickly aggregates with all combine harvesters using transitional frames and aggregate kits. Modifications of the KMS-6 harvester also allow to be aggregated with almost all combine harvesters thanks to adaptation.**

**New technical solutions minimize the crop losses when harvesting ripe corn with grain harvesting into the hopper of a combine, both standing straight and lying down, with shredding and spreading on the field of leaf-sticky mass.**

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| Specifications | **KMS-6** | **КMS-8** |
| Number of rows, pc | 6 | 8 |
| Working width, м | 4,2 | 5,6 |
| productivity (corn), т/hrs | 10-20 | 12,1-25 |
| Working speed , км/hrs | 5...10 | 5...10 |
| Weight , кg | 2200 | 2940 |
| Overall dimensions , м  Length  Width  Height | 3,00  4,37  1,25 | 3,00  5,77  1,25 |

**Handling car for harvesters VTG-4,5**

**It is intended for transportation of harvesters by grain harvesters on dirt roads and general purpose roads.**

|  |  |
| --- | --- |
| Specifications | **VTG-4,5** |
| Working width, м | 4500 |
| Traveling speed, км/hrs | 20 |
| Weight, кг | 1593 |
| Overall dimensions, м  length  width  height | 12,38  2,40  1,26 |

**Harvesters for harvesting sunflowers**

**Modern technologies, used in the manufacture of drill –harvesters, ensure:**

**- The high productivity .The stalks in the channels of adaptation are fed without slope towards its longitudinal axis. As a result, there is the possibility of the unit at higher speeds, which ensures the growth of its productivity;**

**- The high reliability of the construction, due to the lack of longitudinal conveyors for feeding the cut sunflower baskets to the transverse screw;**

**- minimizing losses. The original design of the cutting unit provides a smooth and shock-free cut of stems.**

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| Specifications | **PZS-8** | **PZS-12** | **Sun Plant-7,4** | **Sun Plant-9,4** |
| Working width, м | 5,6 | 8,4 | 7,4 | 9,4 |
| Number of rows, pc | 8 | 12 | - | - |
| productivity , т/hrs | 6,5 | 10 | 8,9/17,8 | 11,3/22,6 |
| Traveling speed, км/hrs | 9 | 9 | 12 | 12 |
| Weight, кг | 1820 | 2820 | 2300 | 2700 |
| Overall dimensions, м  length  width  height | 2,60  6,09  1,70 | 2,60  8,84  1,70 | 2,35  7,40  1,10 | 2,35  9,40  1,10 |

**Drill harvesters for harvesting sunflower PZS**

**The high produced harvesters of continuous cut saves quality in any direction, easily penetrating the rows, regardless of the direction of sowing. After work in the field, only stems and leaves remain.**

**They favorably differ from similar harvesters of other brands by the presence of rubber-cloth aprons on the protective shoe of a rope. Aprons, mitigating the impact of sunblock baskets on the protective cover and reel, help reduce losses.**

**These harvesters allow you to harvest in extremely short terms, which improves the quality of the collected seeds, as well as reduces the dependence on weather conditions.**

**Simplicity and reliability of SUN PLANT harvesters, as well as the use of high quality materials during their manufacture, have reduced the cost and maintenance time to a minimum.**

**Due to its versatility and simple transition frame, harvesters can be used on any combine harvester.**

**TRUCK TRAILER PST-6**

**For the transportation of the goods on the general-purpose roads and on the field roads. It is possible to transport loose building materials , excluding rocks.**

**Type of pneumatic - machines - W 8-16 9.00-16 model F-277.**

|  |  |
| --- | --- |
| SPECIFICATIONS | **PST-6** |
| Bunker volume , m3 | 5,9 |
| Cargo capacity , kg | 6000 |
| Speed with asphalt concrete coating , km/hours | 35 |
| Tire pressure х, МPa | 5,9 |
| Overall dimensions , м  length  width  height | 4,08  2,32  0,62 |
| Tractor power , horsepower | 58,8...105 |

**Transfer-accumulator for Grain PNZ-20**

For reception and accumulation the grain from the combine, its transportation and reloading on the car –body

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| --- | --- |
| SPECIFICATIONS | **PNZ-20** |
| Bunker volume , m3 | 20 |
| Hopper discharge time , min (according to the grain’s kind ) | 10...14 |
| Working speed , кm/hours | 10/20 |
| Weight , кg | 6000 |
| Hydraulic pressure , MPA (kg/см2) | 22 (220) |
| Working frequency of turnover of the tractor , min -1 | 540 |
| Overall dimensions , м  length  width  height | 6,245/6,60  3,59/5,11  3,50/4,37 |

**Machinery for fertilizer application and chemistry**

**Sprayer «ORLAN 24»**

**Used for the continuous spraying of field crops by chemical means of protection against weeds, diseases and pests, as well as the introduction of liquid mineral fertilizers. The 3000 liter sprayer tank reduces the time spent on refueling, which, together with the width of the rod at 24 meters, ensures high performance of the sprayer.**

**1. Autonomous hydrosystem of lifting and decomposition-assembly of rod;**

**2. Bravo-180S computer control system;**

**3. Mixer COMPAKT;**

**4. Set of the equipment for refueling from an open reservoir or capacity.**

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| SPECIFICATIONS | **ORLAN 24** |
| Working width , m | 24 |
| Productivity , ha/hours | 14,4...28,8 |
| Tank volume , m3 (l) | 3 (3000) |
| Flush tank volume , m3 (l) | 0,3 (300) |
| Working speed , кm/hours | 6...12 |
| Working pressure in pressure system , Mpа | 0,1...0,4 |
| Tapping range of the rod up to the mark , mm | 500...2100 |
| Dry mass /operational , кg | 2560/5900 |
| Overall dimensions , м  length  width  height | 6,46  2,50  2,76 |
| Tractor power , horsepower | 58,8...105 |

COMPLEX FOR APPLYING OF ANHYROUS AMMONIA IN THE GROUND «NITROMASTER»

It is intended for introduction of anhydrous ammonia into the soil as the main nitrogen fertilizer. Application of the original working bodies of its own design provides uniform, high quality bookmarking of the substance at a given depth without loss of ammonia.

Raven Ammonia Distribution and Control System (USA). The conducted researches confirm, that providing services on introduction of anhydrous ammonia by the complex NITROMASTER , the payback period is 1 season.

Working body of NITROMASTER:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SPECIFICATIONS | | | **NM-9** | | **NM-12** |
| Working width , m | | | 9 | | 12 |
| Distance between rows | | | 0,45; 0,7 | | |
| Quantity of the working bodies 0,45 m, ps | | | 21 | | 29 |
| At-rest by capacity , m3 | | | 5,5; 7,5 | | |
| Weight ,kg | | | 4000 | | 5000 |
| Overall dimensions , м  length  width  height | | | 6,30  9,63/5,71  1,97/4,24 | | 6,30  13,1/5,71  1,97/4,24 |
| Tractor power , horsepower | | | 250 | | 300 |
| The NitroMaster complex is completed with a 5.5 and 7.5 m3 cistern-type tanker. Installed on a two-axle cart.  Can be shipped separately from the unit.  A large selection of additional options to ensure the optimal agrotechnological processes presented by the customer  **Propane-butane storage tank**  Designed for storing and feeding propane-butane. It is made to order in the volume from 5 to 40 m3. | | |  | |  |
| SPECIFICATIONS | **ПЦ-5,5** | **ПЦ-7,5** | |
| Volume , m3 | 5,5 | 7,5 | |
| Working speed , кm/hours | 10-12/20 | 10-12/20 | |
| Max pressure in capacity , МPа | 1,6 | 1,6 | |
| Weight , кg | 4055 | 4600 | |
| Overall dimensions , м  length  width  height | 10,02  2,20  2,07 | 10,02  2,20  2,23 | |
| Tractor power , horsepower | 250 | 300 | |

**The payback period is 1 season**

**ATOMIZER OF MINERAL FERTILIZERS OF TYPE RN, RP**

**They are intended for surface application of mineral fertilizers in granular and crystalline form (mainly fertilizing), as well as seeding of grain of cereals and siderates in small-contour fields and in gardens with a bias of soil relief of not more than 14% in all soil-climatic zones of Ukraine, except for mountain farming .**

**The loading of the spreader is carried out in the field by general purpose automobile or tractor loaders.**

**Straight-line technology is used at small distances of transportation (up to 0.5 km).**

**- Dispersing discs of a concave shape and guide blades of different lengths provide a high quality distribution throughout the width of the capture.**

**- Cardio shaft produced by Bondioli Pavesi, Italy provides durable and reliable operation of the unit.**

**- The trailer unit reduces the load on the tractor's belt and saves fuel.**

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| SPECIFICATIONS | **RN-0,5**  Hinged | **RN-0,8**  Hinged | **RN-1**  Hinged | **RP-2,1**  Tractor-mounted |
| Bunker volume , m3 | 0,5 | 0,8 | 1,0 | 2,1 |
| Working width , m | 12...20 | 12...20 | 12...20 | 12...20 |
| Load-carrying capacity, kg | 600 | 800 | 1100 | 2100 |
| Working speed , кm/hours | 15,2/20 | | | |
| Spin rate of spill plates, rev/min | 1000 | 740 | 740 | 740 |
| Performance per hour of basic time, ga /hours | 9 | 16 | 16 | 16 |
| Weight ,kg | 171 | 325 | 335 | 860 |
| Overall dimensions , м  length  width  height | 1,3  1,11  1,1 | 1,5  2,0  1,04 | 1,5  2,0  1,16 | 2,8  2,3  2,3 |
| Tractor power , horsepower | 55...80 | 55...80 | 55...80 | 55...80 |

**GROUNDWATER EQUIPMENT**

**UNIVERSAL DISTRIBUTION TYPE UDA**

Designed for soil cultivation of all types. Used for planting of cereal crops, perennial grasses, sunflower, corn.

Aggregates grind and mix the soil without a reversal of the formation, and the upper sifted layer, rich in microflora, remains in the zone of sowing and development of the root system of plants, which increases the yield by 15-25%.

The units are equipped with discs with cuttings, which have an acute edge around the perimeter, thoroughly grind the stems of post-mortem residues and weeds, evenly distribute them throughout the depth of the treated layer of soil, which leads to the decomposition of organic matter without mineralization and prevents the oxidation of the soil.

Disk soil cultivators combine the functions of plow, pewter, cultivator and disk harrow.

Updated UD 7.0.00A rack for UDA, DICH units

- the axle of the rack is modified;

- the disk is mounted on six solid bolts;

- The bearing unit is protected from dust and dirt.

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| SPECIFICATIONS | **UDA -2,4** | **UDA-3,1** | **UDA-3,8** | **UDA-4,5** | **UDA-5,2** | **UDA -6,1** |
| Working width , m | 2,4 | 3,1 | 3,8 | 4,5 | 5,2 | 6,1 |
| Productivity , ha/hours | 2,3/1,4 | 3,0/1,7 | 3,5/1,8 | 4,3/2,8 | 4,6/3,1 | 5,5/4,4 |
| Depth of cultivation, sm | 5...18 | 5...18 | 5...18 | 5...18 | 5...18 | 5...18 |
| Working speed , кm/hours | 8...12 | 8...12 | 8...12 | 8...12 | 8...12 | 8...12 |
| Weight/kg | 1870 | 1950 | 3220 | 3380 | 4060 | 4600 |
| Overall dimensions , м  length  width  height | 5,65/5,65  3,00/3,00  1,50/1,60 | 5,65/5,65  3,70/3,70  1,50/1,60 | 5,80/5,80  4,50/3,00 1,60/3,20 | 5,80/5,80  5,15/3,00  1,50/3,20 | 5,95/5,95  5,86/3,30  2,00/3,37 | 6,45/6,45 7,00/3,40 2,00/3,90 |
|  | 80...120 | 120...160 | 160...180 | 180...220 | 240...260 | 250...280 |