

BETA 7360

BETA 7360 PL

BETA 7370

BETA 7370 PL

<u>Note</u>: Some of the models mentioned in this manual may not be marketed in your country.

For more details, contact your dealer.

WORKSHOP SERVICE MANUAL





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MODEL	MODEL IDENTIFICATION CODE
BETA 7360	X5
BETA 7360 PL	X5AL
BETA 7370	X6
BETA 7370 PL	X6AL

# **DESCRIPTION OF COMBINE IDENTIFICATION NUMBER**

ES.: 
$$*\frac{a}{5640} * \frac{b}{5640} \frac{c}{00001} *$$

a Technical type

d Identification number: 564000001

It is made up of two parts:

- Part 1 (b), made up of 4 digits "5640", identifies the technical type (machine model).
- Part 2 (c), made up of 5 digits "00001" which increase in numerical order of production and identify the sequential number of the machine model produced.

<b>* 5539 * 553 9</b> *	FOR MODEL <b>BETA 7360</b>
<b>* 5540 * 554 0</b> *	FOR MODEL BETA 7360 PL
<b>* 5640 * 564 0</b> *	FOR MODEL BETA 7370
* 5641 * 564 1 *	FOR MODEL BETA 7370 PL

# FREE FLOW GRAIN HEADER IDENTIFICATION NUMBER

711 6	FOR MODEL 16 ft	(m 4,80)
711 8	FOR MODEL 18 ft	(m 5,40)
712	FOR MODEL 20 ft	(m 6,00)
7123	FOR MODEL 23 ft	(m 7,00)
712 5	FOR MODEL 25 ft	(m 7,60)

# Section 00 - GENERAL INFORMATION

# **GENERAL INSTRUCTIONS**

## **IMPORTANT NOTE**

All repair and maintenance works described in this manual mu st be carried out only by the AGCO Service Network, strictly complying with the instructions given and using, whenever required, the special tools. Anybody who carries out the above operations without scrupu lously complying with the instructions shall be held personally liable for any damage caused as a result of their actions.

#### **ADJUSTMENT SHIMS**

During any adjustment, select the adjustment shims by measuring them individually with a micrometer and then adding up the values obtained: do not rely on the incorrect me asurement of the total shim pack or on the nominal value given for each ring.

#### **ROTARY SHAFT SEALS**

For correct rotating shaft seal installation, proceed as follows:

- before fitting the seals, soak them for at least half an hour in the same oil they will be sealing;
- thoroughly clean the shaft and make sure that the shaft working surface is not damaged;
- move the sealing lip towards the fluid; in the case of a hydrodynamic sealing lip the grooves must face in such a way that, considering the shaft rotation direction, the fluid is taken back towards the inner part of the seal;
- smear a thin layer of lubricant on the sealing lip (oil rath er than grease) and fill the gap between the sealing lip and the dust lip with grease on twin lip seals;
- fit the seal in the relevant housing by pressing it or using a drift with a flat contact surface; do not beat it with a hammer or a mallet;
- during driving, make sure the seal is perpendicular to its housing and, when driving is finished, make sure it touches the shoulder;
- to prevent the sealing lip from getting damaged by the shaft, lay down suitable protection when fitting both parts.

#### **O-RINGS**

Lubricate O-rings before fitting them in their seats to prevent them from rolling over and twisting during fitting, thus jeopardizing their sealing action.

#### **SEALANTS**

Before laying the sealant on the mating surfaces, prepare them as follows:

- remove any scales with a wire brush;
- thoroughly degrease the surfaces with one of the followin g cleansers: trichloroethylene, oil, or a solution of water and soda.

# **COTTER PINS**

While fitting split spring pins, make sure that their groove is directed towards the effort direction, stressing the pin. Spiral spring pins do not need any orientation during fittin g.

#### REMARKS ABOUT SPARE PARTS

Only use genuine AGCO parts.

Only genuine parts guarantee the same quality, life and safe ty as original parts because they are the same as those fitted as standard.

Only genuine AGCO parts can offer this guarantee.

All spare parts orders must be accompanied by the following data:

- machine model (commercial name) and frame number;
- combine type and number;
- part number of the ordered part, which can be found in the "S pare Part Catalogue", used for order processing.

#### **REMARKS ABOUT TOOLS**

The tools that AGCO suggests and describes in this manual:

- have been expressly studied and designed to operate on the AGCO range of combine harvesters;
- are required to get a reliable repair;
- are suitably manufactured and strictly tested to offer efficient and long-lasting work tools.

By using these tools, Repair Personnel will benefit from:

- working in the best technical conditions;
- getting the best results;
- saving time and effort;
- working more safely.

#### **CAUTION**

Wear limit values indicated for certain parts should be considered as recommended values, but not absolutely mandatory. The directions "front", "rear", "right" and "left" referring to different parts are given from the viewpoint of the operator sitting in the driver's seat and facing the same direction as the combine moving forward.

# HOW TO MOVE THE COMBINE WITHOUT BATTERY

The cables of the external power supply unit must be connected only to the respective negative and positive cable terminals of the combine using pliers in good working order that will ensure proper and stable contact. Disconnect all circuits (lights, windscreen wipers, etc...) before starting the combine.

If functional checks need to be run on the combine's electric all system, only proceed after connecting the power supply unit. At the end of the checks, disconnect all the circ uits and switch the power supply off before disconnecting the cables.

## SAFETY REGULATIONS

#### PAY ATTENTION TO THIS SYMBOL



This warning symbol points out important messages involvin g your personal safety. Carefully read all the suggested safety precautions to avoid potential hazards and safeguard your health and personal safety.



In this manual you will find this symbol together with the following key words:

**WARNING** – For warnings aimed at preventing unsuitable repair work being carried out that may put the operator's safety at risk.

**DANGER** – For warnings that specifically point out potential hazards for the operator's safety or for other persons directly or indirectly involved.

#### **AVOID ACCIDENTS**

Most accidents and injuries occurring in workshops are due to the lacked compliance with some simple and fundamental caution and safety rules. For this reason, IN MOST CASES THEY CAN BE PREVENTED: just consider the possible causes in advance and act consequently, with the required caution and care.

Accidents may occur with any kind of machine, regardless of how well the machine in question was designed and built.

An alert and cautious mechanic is the best guarantee against accidents.

Strict observance of just one basic safety rule is sufficient to avoid many serious accidents.

**DANGER.** Never carry out any cleaning, lubrication or maintenance operation when the engine is running.

# **SAFETY REGULATIONS**

#### General information

- $\Diamond$  Strictly comply with the specified maintenance and repair procedures.
- Never wear rings, watches, jewellery, loose or unbuttoned clothing such as ties, torn clothes, scarves, open jackets or shirts with open zips which could get trapped in moving parts. It is recommended that you wear appropriate approved protective clothing and equipment, such as anti-slip footwear, gloves, safety goggles, helmets, etc.
- Never carry out any repair work on the machine with someone sitting in the driver's seat unless

- they are qualified operators assisting with the operation to be carried out.
- Never operate the machine or use the relevant tools from any position other than sitting in the driver's seat.
- Never carry out any intervention on the machine when the engine is running, except when specifically instructed to do so.
- Stop the engine and make sure all pressure has been relieved from hydraulic circuits before removing caps, covers, valves, etc.
- All service interventions must be carried out with the utmost care and attention.
- Service stairs and ladders used in the workshop or in the field should be built in compliance with the safety regulations in force.
- Disconnect the batteries and label all controls to warn that the machine is being serviced. Lock the machine and all the equipment to be lifted.
- Never check or fill fuel tanks, accumulator batteries, or use starting fluid while smoking or near to naked flames, as these fluids are flammable.
- Brakes are ineffective when manually released for service interventions: in these cases, make sure you keep the machine under control using suitable chocks or similar blocking devices.
- The fuel supply gun must always stay in contact with the filler neck: Maintain this contact until the fuel supply stops to prevent sparks due to static electricity build-up.

- Use only the prescribed points for towing the machine. Make the connections with the utmost care: make sure that the relevant pins and/or catches are securely tightened before towing. Never remain near to towing bars, cables or chains that are operating under load.
- ♦ To load and unload the machine from the recovery vehicle, select a flat area providing firm support for the wheels of the trailer or truck. Securely fasten the machine to the platform of the truck or the trailer and lock the wheels as required by the shipping agent.
- For electrical heaters, battery-chargers and similar equipment, only use auxiliary power supplies providing an efficient ground to avoid electric shock hazards.
- While lifting or carrying heavy parts, use hoists and similar equipment with sufficient capacity.
- ♦ Pay special attention to anyone who is nearby.
- Never pour gasoline or diesel oil in open, wide and low containers.
- Never use gasoline, diesel oil or other flammable liquids as cleansers: use non-flammable and non-toxic commercial solvents.
- Wear goggles with side guards while cleaning parts with compressed air.
- Reduce air pressure according to the local or national regulations in force.
- Never operate the machine in closed areas without proper ventilation.
- On not smoke, use naked flames or cause sparks when refilling or handling highly flammable materials.
- ♦ Do not use flames as light sources when servicing the machine or checking for possible "leaks".
- Move with caution when working under the machine, on the machine or near the machine. Wear the prescribed safety equipment: helmets, special goggles and shoes.
- During checks that are carried out with the engine running, ask an operator to sit in the driver's seat and keep the service technician under constant visual control at any time.

- In the event of service operations that need to be carried out outside the workshop, drive the combine to a flat area and secure it. If work on hillsides cannot be avoided, first secure the machine and move it to level ground, as soon as you can do it within a given safety margin.
- Dented and bent chains or ropes are not reliable: do not use them for lifting or towing. Always use suitable protective gloves when handling chains or cables.
- The chains must be tightly fastened: make sure the fastening device is strong enough to hold the load. No people should stand next to the towing connection, chains or ropes.
- The area for service operations should always be kept CLEAN and DRY. Immediately remove any water deposits or oil stains.
- Do not pile up oil or grease-soaked rags: they are a major fire hazard. Always place them in a closed metal container. Before starting the machine or an equipment check, adjust and lock the operator's seat. Make sure nobody is standing within the machine or equipment operating range.
- On not carry any object in your pockets that could accidentally fall into the machine's inner compartments.
- Whenever there is a risk that you might be hit by projecting metal parts and similar objects, wear an eye mask or goggles with side shields, helmets, special footwear and heavy gloves.
- During welding operations, use the special safety guards: dark goggles, helmets, overalls, special gloves and footwear. Dark goggles must also be worn by anyone who is not carrying out the work but is standing near the operator carrying out the welding operations. NEVER LOOK DIRECTLY AT THE WELDING ARC WITHOUT SUITABLE EYE PROTECTION.
- Metal cables, when used, get frayed: always wear suitable protection while handling them (heavy gloves, goggles, etc.).
- Handle all parts with the utmost care. Keep your hands and fingers away from gaps, gears and similar dangers. Always wear the approved protection devices, such as safety goggles, safety gloves and shoes.

## Start-up

- Never run the engine in closed areas without suitable ventilation systems to remove exhaust gases.
- Never put your head, body, arms, legs, feet, hands or fingers near fans or rotating belts.

# **Engine**

- Before removing the radiator cap, loosen it very slowly to relieve pressure from the system. Coolant top-ups must be made only when the engine has stopped or is idling, if hot.
- Never fill up the fuel tank when the engine is running, especially if it is hot, to prevent starting fires in the event of fuel leaks.
- Never try to check or adjust the fan belt tension when the engine is running. Never adjust the fuel injection pump when the machine is moving.
- Never lubricate the machine when the engine is running.

#### **Electrical Systems**

- When using auxiliary batteries, remember that the cables on both sides must be connected as follows: (+) with (+) and (-) with (-). Do not short-circuit the terminals. GAS RELEASED FROM BATTERIES IS HIGHLY FLAMMABLE. During recharging, leave the battery compartment open for an improved ventilation. Never check the battery charge with "jumpers" obtained by laying metal objects on the terminals. Avoid sparks or flames in the area surrounding the batteries. Do not smoke to prevent explosion hazards.
- Before any intervention, check there are no fuel or power leaks: eliminate these leaks before going on with the work.
- Never recharge the batteries in closed areas:make sure there is enough ventilation to prevent accidental explosions due to the build-up of gases released while charging.
- Always disconnect the batteries before any intervention on the electrical system.

# **Hydraulic Systems**

- Fluid escaping from a very small hole can be almost invisible and can be strong enough to penetrate the skin. For this reason, use a piece of cardboard or wood when checking. DO NOT USE BARE HANDS: if a jet of fluid penetrates the skin, contact a doctor immediately. If no immediate medical care is given, severe infections or dermatosis could occur.
- ♦ Use suitable instruments to check the system pressures.

# Wheels and tyres

- Make sure that tyres are correctly inflated to the pressure specified by the manufacturer. Regularly check possible damages to rims and tyres.
- Stay away from and to one side of the tyre when adjusting tyre pressures.
- Check the pressures only when the machine is unladen and the tyres are cool to prevent obtaining any wrong measurements due to overpressure. Never use parts of recovered wheels as improper welding, brazing or heating could have weakened them and could cause breakages.
- Never cut or weld a rim with a tyre that is fitted and inflated.
- To remove the wheels, secure both the front and rear wheels. After lifting the machine, to prevent it from falling, arrange suitable supports underneath in accordance with the regulations in force.
- Operation Deflate the tyre before removing any object caught in the tread.
- Never inflate tyres using flammable gases as they may cause explosions and injuries to people nearby.

# Removal and refitting

- Lift and handle all heavy parts using suitably sized lifting equipment. Make sure all the parts are secured using the appropriate slings and hooks. Use the correct eye bolts. Extra care should be taken if anyone is near the load to be lifted.
- Handle all parts with great care. Do not put hands and fingers between the pieces. Wear appropriate safety clothing – safety goggles, gloves and shoes.
- Do not twist metal chains or ropes. Always wear safety gloves when handling cables or chains.

#### PROPER USE

The combines X5, X5AL, X5BL, X6 and X6AL are designed as self--propelled units with a diesel engine.

The machines are manufactured exclusively for usual agricultural purposes, i.e. for harvesting cereal, seed, rice, maize, soya, etc. by cutting or picking-up the crop, threshing and separating the grains from the ears, delivering the grains in the grain tank and unloading them into the grain wag on.

When operating the machine, make sure the cab doors are shut. The operator and instructor, if present, must remain seated in their respective seats with their seatbelts fastened (the operator should not drive the machine when standing).

The machines may be operated only by skilled personnel, who are thoroughly familiar with all the machine's functions and harvesting techniques.

Machine stability is guaranteed on the following inclinations provided that the ground is firm and the tyres offer sufficient grip:

- 30% (18°) longitudinal and crosswise.

The X5AL, X5BL and X6AL versions, with the levelling system engaged, on reasonably firm terrain, can automatically (or manually) level the machine to horizonta I up to the following incline limits of the plane upon which the wheels stand:

- crosswise 20%

 Iongitudinal (only X5BL) 30% driving uphill 5% driving downhill.



WARNING: The combine may be transported on public roads only with an empty grain tank.

# **HEADER TYPES**

The combines X5, X5AL, X5BL, X6 and X6AL can use cutting table s sized 4.80 - 5.40 - 6.00 - 7.00 or 7.60 m.

NOTE: In this manual, the term "header/s" signifies both the cutting table and the maize header. The term "cutting table" refers to the assembly consisting of reel, cutting bar, table auger, etc. used to harvest grain, barley, rice, soy a, etc. The term "maize header" refers to the assembly consisting of stalk grippers, stripping blades, conveyor chains, etc. used for harvesting maize.

# **GENERAL FEATURES**

	X5	X6	
FEEDING DEVICE			
CUTTING TABLE	grain header		
- minimum and maximum cutting height mm	50 ÷	1320	
- cutting width	16 ft (m 4.80), 18 ft (n 23 ft (m 7.00),		
- cutting frequency strokes/minute	12	44	
- GSAX device	stan	dard	
- auger	double-screw type with	n toothed torque limiter	
- retractable fingers	along the full width of t self–lubrica		
- diameter of retractable fingers mm	1	6	
- reel	six bar with close	ed spider frames	
- drive	hydraulic moto	r-driven chain	
- vertical and horizontal positioning	electrohydrauli	cally operated	
- speed variator	hydraulically operate	ed (speed 0-55 rpm)	
ELEVATOR	multi-purpose type		
- lower roller	floa	ting	
- feed roller (PFR)	with parallel fingers and toothed torque limiter		
- feed roller fingers diameter mm	16		
- bar supporting chainsno.	3 4		
- barsno.	30		
- protection	spring-loaded safety clutch		
- upper shaft speedrpm	425		
- lower shaft speedrpm	622		
- elevator drive belt	3HB multi <sub>l</sub>	ple V-belt	
THRESHING UNIT			
- stone trap	on the concave inlet which can be disconnected and removed (for inspection)		
grain/maize BEATER	with 8 beating bars and 8 backing bars		
- type for rice	12 toothed bars with cast iron support		
- housing width mm	1346 1600		
- beater width mm	1331	1585	
- diameter mm	600		
- variator	with tw	o belts	
- variator control	electrohydraulic		
- rotation speed (loaded)rpm	380 ÷ 1100 430 ÷ 1210		

	X5	X6
CONCAVE - control	independent front and rear opening, adjustable from the driver's seat	
– aream²	0.83	0.99
Cereal type:  - clearance (between wire centres) mm	14	.1
- wire arrangementmm	alternately 4	03 and 630
– wrap angle	10	6°
- wire diameter mm	3.	5
- total number of wiresno.	93	111
- barsno.	1:	2
Maize type:  - clearance (between wire centres) mm	24	4
– wrap angle	10	6°
- wire diameter mm	6	3
– barsno.	9	)
Rice type:  - threshing sectionno.	1 (with three rows of spikes)	
- spikesno.	77	90
– wrap angle	10	6°
Universal type:  - barsno.	1	7
- wire diameter mm	6	3
– wrap angle	10	2°
CONCAVE EXTENSION (rake)  – barsno.	2	
– wrap angle	14	<u> </u>
REAR BEATER – vanesno.	4, removable from in	nside the grain tank
- control	4HB powe	rband belt
- speedrpm	82	20
REAR BEATER CONCAVE  - concave wrap	52°	
- concave aream <sup>2</sup>	0.44	0.53
– bars units	0.44 6	
- clearancemm	10	)4
– wire diameter mm	6	3
- concave to rear beater clearance mm	2	5

	X5	X6	
MULTI CROP SEPARATOR	electrically-adjustable concave position		
- tines	70 80		
- diameter mm	600		
– width mm	1310	1565	
- normal rotation speed rpm	75	50	
- reduced rotation speedrpm	41	0	
- control	V-t	pelt	
MULTI-CROP-SEPARATOR CONCAVE	can be disconne	cted electrically	
- barsno.	8	}	
- wire diameter	6	3	
- wrap angle	57	<b>7</b> °	
- area m <sup>2</sup>	0.46	0.54	
- clearance mm	5	2	
- Multi Crop Separator to concave clearance . mm	25 ÷	- 40	
STRAW WALKERno.	5	6	
- grids and stepsno.	5 ar	nd 4	
- length mm	42	56	
- separation aream <sup>2</sup>	5.73	6.81	
- rotation speedrpm	177		
CLEANING UNIT			
FAN	with adjustabl	e air capacity	
- rotation speedrpm	350 ÷	1050	
- reduced rotation speedrpm	270 ÷	- 840	
- vanesno.	4	ļ	
- control	V-k	pelt	
MAIN GRAIN PAN	fixed, with front access for maintenance		
- movement	alternating, opposi	te to bottom sieve	
- control shaft cycles/min	31	5	
- control	double V-belts		
- grain pan widthmm	1340	1600	
- grain pan lengthmm	1723		
- grain pan aream <sup>2</sup>	2.31	2.76	
- grain pan rake aream <sup>2</sup>	0.255	0.304	
UPPER SIEVE	with adjustable sieve		
- upper sieve width mm	1340	1600	
- upper sieve length mm	1963		
- upper sieve aream <sup>2</sup>	2.63 3.14		

	<b>X</b> 5	X6
LOWER SIEVE	with adjustable sieve	
- lower sieve width mm	1340	1600
- lower sieve length mm	1525	
- lower sieve aream <sup>2</sup>	2.04	2.44
RETURNS	to cyl	inder
- conveyed by	returns auger	and elevator
- returns auger speedrpm	31	5
GRAIN TANK		
- crop conveyed by	tank filling elevator and tank filling auger into the middle of the grain tank	
- auger unloading speedrpm	38	38
– capacity litres	90	00
- unloading auger drive	powerband belt, ch	ain and angle gear
- safety clutch	shear	r bolt
- length of unloading tube	5.0	00
- unloading speedlitres/sec	105	
- unloading heightmm	4450	
HYDRAULIC SYSTEM		
– oil tank capacity litres	30	6
- table hydraulics pump oil flowlitres/min	37	.5
– table control valve max. pressurebar	200	
<ul> <li>auxiliary hydraulics pump oil flowlitres/min</li> </ul>	4	
<ul> <li>auxiliary hyd. control valve max. pressurebar</li> </ul>	85	
<ul> <li>hydrostatic steering pump oil flowlitres/min</li> </ul>	15.5	
<ul> <li>steering pump displacementcm<sup>3</sup>/rev</li> </ul>	125	
- max. pressurebar	140	
- anti-shock valve max. pressurebar	20	00
- intake filtermicron	150	
- return filtermicron	16	

	<b>X</b> 5	X6	
HYDROSTATIC SYSTEM			
– oil tank capacity litres	36		
– pump displacement cm <sup>3</sup> /rev	10	00	
- pump speedrpm	24	50	
- pressure relief valve settingbar	42	20	
– motor displacementcm <sup>3</sup> /rev	10	00	
- return filtermicron	16	6	
- pressure filter micron	10	0	
ENGINE			
- make	AGCO SIS	U POWER	
- type	7.4 AWI. 747	8.4 AWI. 708	
- cylindersno.	6	3	
- displacementcm <sup>3</sup>	7365	8419	
- bore mm	108	111	
- stroke mm	134	145	
- combustion	direct in	jection	
- rotation direction (from the flywheel)	anti-clo	ckwise	
- nominal speedrpm	220	00	
- max. power (ECE 120 R)kW	203	221	
- max. power (with Power Boost)kW	-	265	
oil sump capacity without filters litres	29		
- oil sump capacity with filters litres	32		
- fuel tank, capacity litres	62		
- DEF tank, capacity litres	80		
- radiator, circuit capacity litres	56		
ELECTRICAL COMPONENTS			
BATTERY	12 V		
- capacity (20h)A/h	200		
- peak current A	1200		
STARTER MOTOR	12 V		
ALTERNATOR	14 V		
- charging capacity A	150		

	X5	X6		
TRANSMISSION				
GEARBOX	with front er	with front engagements		
- gearsno.	4	4		
UNLADEN WEIGHT				
<ul> <li>total weight of the 2WD combine without header,</li> <li>with straw chopper and with the grain tank empty kg</li> </ul>	12650	13400		
- front weight kg	7950	8500		
- rear weight kg	4700	4900		
<ul> <li>total weight of the 4WD combine without header,</li> <li>with straw chopper and with the grain tank empty kg</li> </ul>	12830	13680		
- front weight kg	7950	8500		
- rear weight kg	4880	5180		
MAXIMUM WEIGHTS TECHNICALLY ACCEPTABL	E ON PUBLIC ROADS			
<b>Note</b> : The following weights refer to Italian approval and are disp layed on the respective approvals tag; for all other countries, please check the maximum weights displayed in the vehicle registration documents.				
- total weight kg	18100			
- front weight kg	14500			
- rear weight kg	5800			

	X5AL	X5BL	X6AL	
FEEDING DEVICE	EVICE			
CUTTING TABLE	grain header			
- minimum and maximum cutting height mm	50 ÷ 1320			
- cutting width		0), 18 ft (m 5.40), 20 (m 7.00), 25 ft (m 7		
- cutting frequence strokes/minute		1244		
- GSAX device		standard		
- auger	double-screv	type with toothed	torque limiter	
- retractable fingers		width of the auger elf-lubricating bushe		
- diameter of retractable fingers mm		16		
- reel	six bar	with closed spider	frames	
- drive		hydraulic		
- vertical and horizontal positioning	elect	rohydraulically oper	ated	
- speed variator	hydraulical	ly operated (speed	0–55 rpm)	
ELEVATOR	multi-purpose type			
- lower roller	floating			
- feed roller (PFR)	with parallel fingers and toothed torque limiter			
- feed roller fingers diameter mm	16			
- bar supporting chainsno.	3 4			
- barsno.	30			
- protectionno.	spring-loaded safety clutch			
- upper shaft speedrpm		425		
- lower shaft speedrpm		622		
- elevator drive belt	;	3HB multiple V-belt		
THRESHING UNIT				
- stone trap	on the concave inlet which can be disconnected and removed (for inspection)			
grain/maize BEATER	with 8 beating bars and 8 backing bars			
- type for rice	12 toothed bars with cast iron support			
- housing width mm	1346 1600			
- beater width mm	1331 1585		1585	
- diameter mm	600			
- variator		with two belts		
- variator control	electrohydraulic			
- rotation speed (loaded)rpm	380 ÷ 1100 430 ÷ 1210			

	X5AL	X5BL	X6AL
CONCAVE - control	independent front and rear opening, adjustable from the driver's seat		
- area m <sup>2</sup>	0.83 0.9		0.99
Cereal type: - clearance (between wire centers) mm		14.1	
- wire arrangement mm	al	ternately 403 and	630
- wrap angle		106°	
- wire diameter mm		3,5	
- total number of wiresno.	S	3	111
- bars no.		12	
Maize type: - clearance (between wire centers) mm		24	
- wrap angle		106°	
- wire diameter mm		6	
- bars no.		9	
Rice type: - threshing sectionsno.	1 (w	ith three rows of s	pikes)
- spikes no.	7	7	90
- wrap angle		106°	
Universal type: - barsno.		17	
- wire diameter mm		6	
- wrap angle		102°	
CONCAVE EXSTENSION (rake) - barsno.		2	
- wrap angle		14°	
REAR BEATER - vanesno.			e grain tank
- control	.,	4HB multiple V-be	
- rotation speed empty/loaded rpm	820		
REAR BEATER GRID			
- concave wrap angle m <sup>2</sup>	^		0.53
- barsno.			0.00
- clearance mm			
- wire diameter mm		6	
- concave to rear beater clearance mm	25		
3.00.000	20		

	X5AL	X5BL	X6AL	
MULTI CROP SEPARATOR	electrically-adjustable concave position			
- tines	7	70 8		
- diameter mm		600		
- width mm	13	10	1565	
- normal rotation speedrpm		750		
- reduced rotation speedrpm		410		
- control		V-belt		
MULTI CROP SEPARATOR GRID	can be	disconnected elec	trically	
- barsno.		8		
- wire diameter mm		6		
- wrap angle		57°		
- area m <sup>2</sup>	0.4	46	0.54	
- clearance mm		52		
- Multi Crop Separator to concave clearance . mm	25 ÷ 40			
STRAW WALKERSno.	Ę	5		
- grids and stepsno.		5 and 4		
- lenght mm		4256		
- separation aream <sup>2</sup>	5.	73	6.81	
- rotation speedrpm	177			
CLEANING UNIT				
FAN	with adjustable air capacity			
- rotation speedrpm	350 ÷ 1050			
- reduced rotation speedrpm	270 ÷ 840			
- vanesno.	4			
- control	V-belt			
MAIN GRAIN PAN	fixed; with front access for maintenance		aintenance	
- movement	alternating, opposit to bottom sieve		om sieve	
- control shaft cycles/min	315			
- control	double V-belts			
- grain pan widthmm	13	40	1600	
- grain pan lenght mm		1723		
- grain pan aream <sup>2</sup>	2.0	2.31 2.		
- grain pan rake aream <sup>2</sup>	0.2	255	0.304	
UPPER SIEVE	with adjustable sieve			
- upper sieve width mm	1340 16		1600	
- upper sieve length mm	1963			
– upper sieve aream <sup>2</sup>	2.63 3		3.14	

	X5AL	X5BL	X6AL
LOWER SIEVE	with adjustable sieve		
- lower sieve width mm	· .		1600
- lower sieve lenght mm		1525	•
- lower sieve aream <sup>2</sup>	2.0	04	2.44
RETURNS	to cylinder		
- conveyed by	retu	rns auger and elev	ator/
- returns auger speedrpm		315	
GRAIN TANK			
- crop conveyed by	tank filling elevator and tank filling auger into the middle of the grain tank		
- auger unloading speedrpm	388		
- capacity litrs	8600		
- unloading auger drive	powerband belt, chain and angle gear		
- overload protection	shear bolt		
- lenght of unloading tubem	5.00		
- unloading speedlitres/sec	105		
- unloading height mm	4450		
HYDRAULIC SYSTEM			
- oil tank capacity litres		36	
- table hydraulics pump oil flowlitres/min	37.5		
- table control valve max. pressurebar	200		
- auxiliary hydraulics pump oil flowlitres/min	4		
- auxiliary hyd. control valve max. pressurebar	85		
- hydrostatic steering pump oil flowlitres/min	15.5		
<ul> <li>powersteering pump displacement cm<sup>3</sup>/rev</li> </ul>	125		
- max. pressurebar	140		
- anti-shock valve max. pressurebar	200		
- intake filtermicron	150		
- return filtermicron	16		
- levelling pump capacitylitres/min	50.5		
- levelling circuit max. pressurebar	200		

	36 130 2450 420			
	130 2450 420			
	2450 420			
	420			
	-			
	100			
	100	100		
	16			
	10			
AGCO SISU POWER		R		
7.4 C	TA 4V	8.4 CTA 4V		
7.4 AWI. 747		8.4 AWI. 708		
6				
7365		8419		
108		111		
13	34	145		
direct injection				
anti-clockwise				
2200				
203		221		
-		265		
29.5				
32				
600 (*) or 620 (**)				
80 (only with AWI engines)		ies)		
56				
12 V				
150 (*) or 200 (**)				
650 (*) or 1200 (**)				
12 V				
14 V				
150				
	7.4 AW  73  10  13  20	6 7365 108 134 direct injection anti-clockwise 2200 203 - 29.5 32 600 (*) or 620 (**) 80 (only with AWI engin 56  12 V 150 (*) or 200 (**) 650 (*) or 1200 (**) 12 V 14 V		

<sup>\*</sup> on X5AL, X5BL and X6AL models with a Stage IIIA engine (see frames in Section 10);
\*\* on X5AL, X5BL and X6AL models with a Stage IIIB engine (see frames in Section 10).

	X5AL	X5BL	X6AL	
TRANSMISSION				
GEARBOX	w	with front engagements		
- gearsno.		4		
WEIGHT				
<ul> <li>total weight of the combine without header, with straw chopper and with the grain tank empty kg</li> </ul>	14140	14780	14660	
- front weight kg	8800	9520	9180	
- rear weight kg	5340	5260	5480	
MAXIMUM WEIGHTS TECHNICALLY ACCEPTABL  Note: The following weights refer to Italian approval and countries, please check the maximum weights display.	are disp layed on th	e respective approv		
- total weight kg		18100		
- front weight kg		14500		
- rear weight kg		5800		

# **CAPACITIES AND SPECIFICATIONS**

PARTS TO BE FILLED	QUANTITY dm <sup>3</sup> (Litres)		INTERNATIONAL
	X5	X6	SPECIFICATION
Engine cooling system	50	56	
Fuel tank	62	620	
DEF tank	80		DIN 70070 ISO 22241
Engine sump and filter	29.5 and 2.5		15W-40, API CJ4 15W-40, ACEA E9
Air compressor (maintenance)	0.25		
Brake fluid tank and circuit	0.30		NHTSA 116 DOT 4 SAE J 1704
Gearbox and differential housing	12		API GL5 SAE 80W-90
Final drives	5.5x2		
Bottom angle gear for unloading auger	0.50		
Auxiliary hydraulic system tank and hydrostatic drive (system)	36 (65.5)	36 (65.5)	DIN 51524 Part 2 HV 46 ISO VG 46 HV
Angle gear for filling elevator	0.22		
Top angle gear for unloading auger	0.15		NLGI 2
Angle gear for chaff spreader	0.35		]
Automatic air conditioning compressor – DELPHI V5-VDA	0.26 (210 grams)		-
Air-conditioning system	2500 grams		-
Grease nipples	-		NLGI 2
Oilers	_		Biodegradable ISO VG 46
Windscreen wash	1.50		CUNA 956-11

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