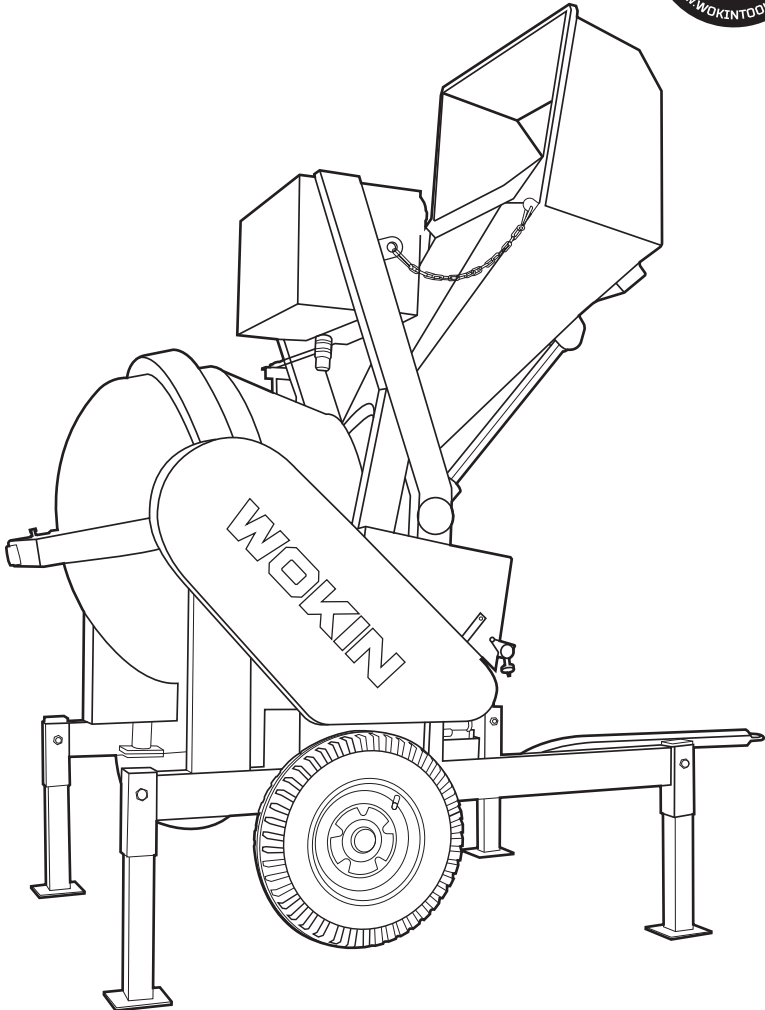


799305
799315

TILTING DRUM CONCRETE MIXER



SAVE THIS MANUAL!

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

INTRODUCTION

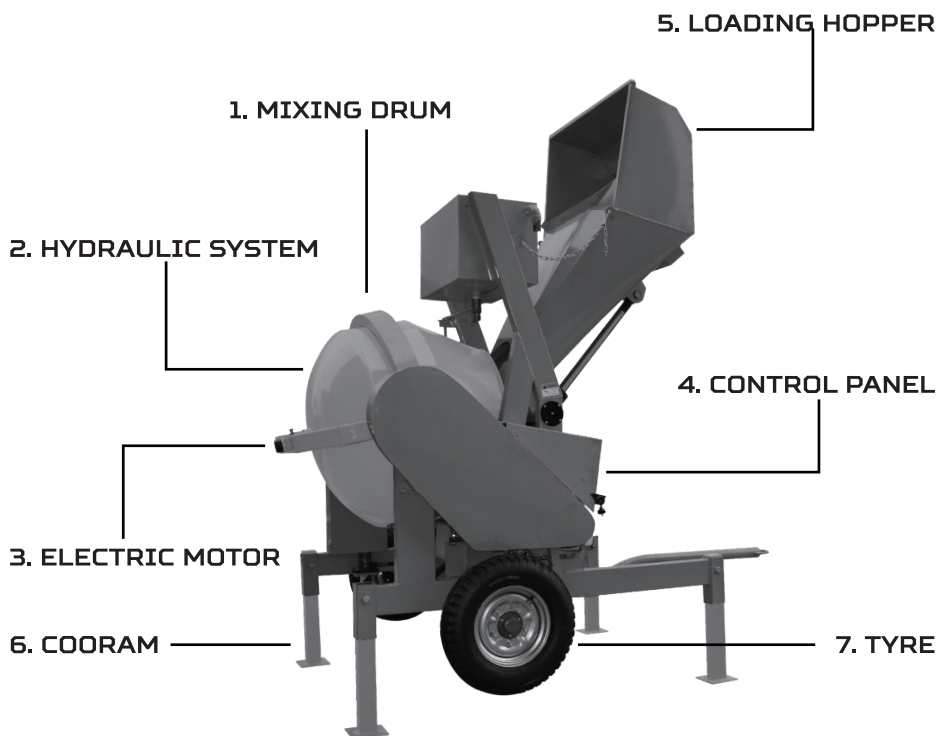
A hydraulic concrete mixer is a machine to combine cement, sand, aggregate, and water into concrete. A hydraulic system lifts the loading hopper to material then into feed into the mixing drum.

MAIN SPECIFICATIONS

NO.	799305
TOTAL DRUM CAPACITY	500L
MIXING CAPACITY	400L
MAXIMUM STIRRABLE PARTICLE DIAMETER	6CM
WATER TANK CAPACITY	60L
PRODUCTIVITY	8-10 m³/h
DRUM ROTATING SPEED	20-22 rpm
DIESEL ENGINE TYPE	Air-cooled Diesel Engine 186FE (10 HP)
ENGINE START MODE	Electrically Started
MAXIMUM MIXING WEIGHT	500KG

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MIXING CAPACITY	400L
MAXIMUM STIRRABLE PARTICLE DIAMETER	6CM
WATER TANK CAPACITY	60L
PRODUCTIVITY	8-10 m³/h
DRUM ROTATING SPEED	20-22 rpm
MOTOR	5.5kw Three-phase motor
VOLTAGE/FREQUENCY	380V/ 50Hz
MAXIMUM MIXING WEIGHT	500KG

COMPONENTS



OPERATING INSTRUCTIONS

1. Perform a pre-operational cneft the equipment and ensure all parts are in good condition.
2. Start the mixer by turning on electric motor.
3. Move the control lever to raise the loading hopper. Fill the hopper with materials, operate the control lever to lift the hopper, feed materials into the mixing drum. Allow the drum to turn for the required mixing time.
4. Lower the loading hopper and discharge the concrete using the manual handling mechanism.

SADEY

CAUTION: FOR SAFE OPERATION READ RULES AND INSTRUCTIONS CAREFULLY. THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE THOROUGHLY UNDERSTOOD BEFORE ATTEMPTING TO BEGIN ASSEMBLING THIS MACHINE.

1. Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.
2. Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks or other mechanical devices.
3. Preview the assembly instructions in your operator's manual before proceeding further.
4. If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also insure that the blocking material is on a clean, dry surface.
5. Never put hands, or any part of the body, under blocked up assemblies if at all possible.
6. After completing assembly, thoroughly inspect the machine to be sure all nuts, bolts, hydraulic fittings or any other fastened assemblies have been thoroughly tightened.
7. Before operating the machine, thoroughly read the operation section of your operator's manual.
8. Before operating, read the maintenance section of your operator's manual to be sure that any parts requiring lubrication, such as gearboxes, are full, to avoid any possible damage.
9. Before operating equipment - If you have any questions regarding the proper assembly or operation, - contact your local dealer or representative.

TO THE OWNER:

Read this manual before using your 3PT Mixer. This manual is provided to give you the necessary operating and maintenance instructions for keeping your 3PT. Mixer in top operating condition. Please read this manual thoroughly and understand what each control is for and how to use it.

Observe all safety signs on the machine

and noted throughout the manual for safe operation of implement. Keep this manual handy for ready reference.

Like all mechanical products, it will require cleaning and upkeep. Lubricate the Mixer as specified.

RETAIL CUSTOMER'S RESPONSIBILITY:

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment.

It is the Retail Customer's responsibility to deliver the product to whom it was purchased from, for service or replacement of defective parts which are covered by warranty.

It is the Retail Customer's responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection

SADEY

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices.

The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

**READ THE SAFETY MESSAGES ON THE IMPLEMENT AND SHOWN IN YOUR MANUAL.
OBSERVE THE RULES OF SAFETY AND COMMON SENSE!**



THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY WARNING MESSAGES. CAREFULLY READ EACH WARNING MESSAGE THAT FOLLOWS. FAILURE TO UNDERSTAND AND OBEY A SAFETY WARNING, OR RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN INJURY OR DEATH TO YOU OR OTHERS AROUND YOU.

THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE OPERATING AREA OF THE TRACTOR AND ATTACHED EQUIPMENT.

UNDERSTANDING SIGNAL WORDS

Note the use of signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices


If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your local dealer.

IMPORTANT SAFETY INFORMATION

Working with unfamiliar equipment can lead to careless injuries. Read this manual and the manual for your tractor before assembly or operating, to acquaint yourself with the machines. It is the implement owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented to make certain that the operator, prior to operating

1. Reads and understands the Operator's Manual.

2. Is instructed in safe and proper use.

 The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

 **EQUIPMENT SAFETY GUIDELINES:**

Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section/ To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

- In order to provide a better view certain photographs or illustrations in this manual may show an assembly with safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

- Replace any CAUTION, WARNING, or instructions safety sign that is not readable or is missing.
Locations of such safety signs indicated in this booklet.
- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
- Review the safety instructions with all users annually.
- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.
- To prevent injury or death, use a tractor equipped with a Roll-Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning signs on your equipment. Observe all safety signs and practice the instruction on them.
- Never exceed the limits of a piece of machinery.
If its ability to do a job, or to do so safely, is in question - DON'T TRY IT.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are Dependant upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of the machine. Refer also to Safety Messages and Operation Instructions in each of the appropriate sections of the Tractor and Implement Manuals. Pay close attention to the Safety Signs attached to the Tractor and the Implement.

SAFETY SIGNS

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign also display the current sign.
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

HOW TO INSTALL SAFETY SIGNS:

- Be sure the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



TIRE SAFETY

- Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
- Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.

IMPORTANT SAFETY INFORMATION

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said, "The best safety device is an informed, careful operator". We ask you to be that kind of an operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. Accidents can be avoided.

Working with unfamiliar equipment can lead to careless injuries. Read this manual and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines.

It is the 3PT mixer owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

- 1. Reads and understands the operator's manuals.**
- 2. Is instructed in safe and proper use.**

Know your controls and how to stop tractor engine and mixer quickly in an emergency. Read this manual and the one provided with your tractor.

Train all personnel and review instructions frequently with existing workers. A person who not read and understood all operating and safety instructions is not qualified to operate the machine.

An untrained operator exposes himself and bystanders to possible serious injury or death.

Do not allow children to operate this machine.

PREPARATION

Never operate the tractor and implement until you have read and completely understand this manual, the Tractor Operator's Manual and each of the Safety Messages found on the safety signs on the tractor and implement.

Personal protection equipment including hard hat, safety glasses, safety shoes and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal or moving the implement. Do not allow long hair, loose fitting clothing or jewelry to be around moving parts.

PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!

Tractors with or without implement can often be noisy enough to cause permanent, partial hearing loss.

We recommend that you wear hearing protection on a full-time basis if the noise in the Operator's position exceeds 80db. Noise over 85db on a long-term basis can cause severe hearing loss. Noise over 90db adjacent to the Operator over a long-term basis may cause permanent, total hearing loss.

Note: Hearing loss from loud noise (tractors, chain saws, radios and other such sources close to the ear) is cumulative over a lifetime without hope of natural recovery.

Operate the implement only with a tractor equipped with an approved Roll-Over Protective System (ROPS). Always wear your seatbelt on tractors equipped with a ROPS. Serious injury or even death could result from falling off the tractor — particularly during a turnover when the operator could be pinned under the ROPS or the tractor.

Operate only in daylight or good artificial light.

Ensure implement is properly mounted, adjusted and in good operating condition.

Make sure driveline spring-activated locking pin or balls operate freely and are seated firmly in Tractor PTO stub shaft groove.

Ensure that all safety shielding and safety signs are properly installed and in good condition.

Check that PTO driveline does not contact the swinging draw bar may have to be removed on some tractors. Damage to driveline could make it unsafe to operate.

STARTING AND STOPPING SAFETY

Be certain the tractor is in neutral or park position before starting engine.

Do not leave the tractor or the implement unattended with the engine running.

3PT. Mixer operating power is supplied from the tractor PTO. Refer to your tractor manual for PTO engagement and disengagement instructions. Always operate the PTO in the 540 RPM range.

Know how to stop tractor and mixer quickly in case of an emergency.

Mixer should be lifted off the ground before engaging PTO and be sure that no one is near the machine.

When engaging PTO, the RPM should always be low.

Never engage PTO drive with the mixer in the dump position. Engaging PTO with mixer in dump position can cause damage to the PTO driveline. This damage could cause the driveline to come apart causing possible injury or death.

When raising the mixer with the 3 Point Hitch, check that the PTO driveline does not go into sharp angles (more than 15°).

Always stop the tractor, set brake, shut off the engine, remove the ignition key and lower the implement to the ground before dismounting. Never leave the equipment unattended with the tractor running.

Check the tractor master shield over the PTO stub shaft. Make sure it is in good working condition and fastened securely to the tractor. Purchase a new shield if old shield is damaged or missing. (You may have to use a tractor salvage yard for replacement parts on older tractors).

Take all possible precautions when leaving unit unattended: disengage PTO, set parking brake, stop engine and remove key from ignition. Park in level area.

OPERATIONAL SAFETY

The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read understand this entire manual, paying close particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor or your local dealer to explain it to you.

Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders at least twenty (20) feet from an operating mixer. Only properly trained people should operate this machine.

Never place hands or body on mixer with tractor engine running or before you are sure all motion has stopped. Stay clear of all moving parts.

Do not reach or place yourself under equipment until it is blocked securely.

Do not allow riders on the implement at any time. There is no safe place for any riders.

Disengage power takeoff (PTO) and place transmission into neutral before attempting to start engine.

Install and secure all guards and shields before starting or operating.

Keep hands, feet, hair and clothing away from moving parts.

This mixer is designed for use only on tractors with 540 RPM power takeoff.

OPERATIONAL SAFETY

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This mixer is designed for use only on tractors with 540 RPM power takeoff.

A full mixer will put a heavy load on the rear of your tractor. Be sure front of tractor is properly counterbalanced with weights.

Never place hands or hand held tools (shovel) into the mixer drum while it is turning. It could catch on the mixer paddles and whip around, possibly injuring the operator.

Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.

Avoid sudden starts and stops while traveling up or downhill.

Always drive down slopes; never across the face. Avoid operation on steep slopes. Slow down on sharp turns and slopes to prevent tipping and/or loss of control. Avoid slopes when surface is wet, slippery grass or soil.

Never attempt to check or adjust chain tension while implement is operating. Always stop it before this operation.

Inspect the entire machine periodically as indicated in the Maintenance Section of this manual. Look for loose fasteners, worn or broken parts and worn PTO driveline joints and/or shields. Make sure all pins

and washers. Serious injury may occur from not maintain this machine in good working order.

TRANSPORT SAFETY

Comply with state and local laws governing highway safety and movement of farm machinery on public roads.

The use of flashing amber lights is acceptable in most localities, however, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.

When driving the tractor and equipment on the road or highway under 20 MPH (32KPH) at night or during the day, use flashing amber lights and a slow moving vehicle (SMV) identification emblem.

Always be sure the implement is in the proper raised position for transport.

Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.

Plan your route to avoid heavy traffic.

Always install transport locks, pins or brackets before transporting.

Do not drink and drive!

Watch for traffic when operating near or crossing roadways.

Turn curves or go up or down hills only at low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steering. Slow down on rough or uneven surfaces and loose gravel.

Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.

Never allow riders on either tractor or implement. Falling off can kill.

Be a safe courteous driver always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.

Do not exceed 20 MPH (32 KPH). Reduce speed on rough roads and surfaces.

Always disengage PTO before driving the tractor to transport the implement from one place to another.

MAINTENANCE SAFETY

Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

Follow good shop practices:

- Keep service area clean and dry.
- Be sure electrical outlets and tools are properly grounded.
- Use adequate light for the job at hand

Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.

Before working on this machine, drive to a level area, disengage the PTO, lower implement (or if working underneath, raise and block securely), shut off the engine, set brakes and remove the ignition keys.

Be certain all moving parts on attachments have come to a complete stop before attempting to perform any service or maintenance.

Never work under equipment unless it is blocked securely. Never depend on hydraulic system to keep implement in raised position.

Keep all persons away from operator control area while performing adjustments, service or maintenance.

Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.

Periodically tighten all bolts, nuts and screws and check that all pins are properly installed to ensure unit is in a safe condition.

When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.

Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene and death can result. Without immediate medical treatment serious infection and reactions can occur.

After servicing, be sure all tools, parts and service equipment are removed.

Check to ensure all safety signs are installed and in good condition. (See safety sign section for location drawing).

Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e. shear bolts.

Refer to bolt torque chart for head identification marking.

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications.

The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.

STORAGE SAFETY

Following operation, or when unhooking, stop the tractor, set the brakes, disengage PTO, shut off the engine and remove ignition keys.

Store the unit in an area away from human activity.

Do not park equipment where it will be exposed to livestock for long periods of time.

Damage and livestock injury could result.

Do not permit children to play on or around the stored unit.

Make sure all parked machines are on a hard, level surface and engage all safety devices.

If blocking is used, make sure it is solid and secure before leaving area.

STORAGE SAFETY

**⚠ WARNING**

To Prevent Serious Injury Or Death:

- Avoid unsafe operation or maintenance.
- Do not operate or work on this machine without reading and understanding the operator's manual
- If manual is lost, contact your nearest dealer for a new manual

⚠ DANGER

**ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH
KEEP AWAY!**

Do not operate without:

- All driveline, tractor and equipment shields in place.
- Drivelines securely attached at both ends.
- Driveline shields that turn freely on driveline.

⚠ WARNING**HIGH- PRESSURE FLUID HAZARD**

- To prevent serious injury or death:
Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

⚠ WARNING**540 RPM SPEED
RANGE ONLY**

**HIGHER PTO SPEEDS CAN CAUSE
PERSONAL INJURY AND
EQUIPMENT FAILURE**

⚠ WARNING

STAND CLEAR

⚠ DANGER**TURN PTO OFF**

**Before Dumping Mixer
Never Exceed 25° Angle At
The PTO Shaft U-Joint**

Note: If safety Signs have been damaged, removed, become illegible or parts replaced without signs, new Safety Signs must be applied. New Safety Signs are available from your authorized distributor or factory.

TRACTOR REQUIREMENTS AND PREPARATION

The MX320G mixer requires a tractor with a Category I hitch and to be of sufficient size to handle a loaded mixer drum. Five cubic feet of concrete weighs 685 lbs. and the mixer weighs 215 lbs. for a total weight of 900 lbs. Always be sure your tractor is properly counterbalanced for a safe operation.

A smaller size tractor (20–25 HP) equipped with a front end weights or equipped with a front end loader can usually handle the mixer easily.

Note: Small low-profile tractors will generally not work with the MX320G mixers as they are so low they cannot dump the mixer into forms of any height.

The tractor must have one hydraulic power remote to power the dump cylinder.

The tractor must be equipped with a 540 RPM PTO (power takeoff) in good working condition.

It is recommended that only tractors with wide front axles be used with the mixer. Tricycle front wheel arrangements are inherently unstable and tractor roll-over accidents are more likely to occur.

The tractor also needs lift arm stabilizer bars or sway blocks to control side movement of the mixer.

Check tractor's 3PT. hydraulic lift system. Refer to your tractor's operator's manual or dealer for any adjustments necessary to put the hydraulic system in good working order. (I&T shop manuals will list most specifications and adjustment instructions – available from most farm equipment dealers).

Be sure tires and rims are in good condition. Inflate tires to the proper recommended air pressure.

Check the master shield over the PTO stub shaft. Make sure it is in good condition and fastened securely to the tractor. Purchase a new shield if old shield is damaged or missing. (You may have to use a tractor salvage yard for replacement parts on older tractors).

It is recommended that a ROPS (Roll-Over Protection Structure) and a seat belt be installed on all tractors. Contact your local dealer for a ROPS for your tractor.



CAUTION!

Be sure your tractor is in good condition.
Read all the safety precautions and make sure all tractor operators are familiar with the safety rules of operation

SAFETY TRAINING

- Know your controls and how to stop tractor, engine and PTO quickly in an emergency.
READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR.
- To avoid accident or injury, do not allow anyone to operate this equipment without proper instructions. Any person who operates this equipment must be instructed in and be capable of the safe operation of the
- tractor, implement and all controls.
Do not allow children to operate this machine.

⚠ WARNING!

A heavy load can cause instability in driving a tractor. Make sure the front of the tractor is properly counterbalanced with weights. Always drive slowly - especially around turns. An unstable tractor could steer badly and possibly tip over, causing injury or death.

⚠ CAUTION!

Do not operate the PTO at other than the rated 540 RPM. Excessive speeds can cause breakage and potential injury.

Note: NEVER LOAD MIXER WITH THE DRUM NOT TURNING. STARTING A LOADED DRUM COULD DAMAGE THE DRIVE CHAIN OR SPROCKETS.

- Equip tractors with a roll-over protection (ROPS) and keep all machinery guards in place.
- Keep children away from danger all day, every day..
- Please work, drive, play and love each day with care and concern for your safety and that of your family and fellow citizens.

OBEY ALL SAFETY WARNINGS!

OPERATING INSTRUCTIONS**PRE-OPERATED CHECKLIST
(OWNER/OPERATOR RESPONSIBILITY)**

- Review and follow safety rules and safety signs throughout this manual.
- Check that mixer is properly and securely attached to tractor.
- Make sure driveline spring-activated locking pin or locking balls operate freely and are seated firmly in tractor PTO spline groove.
- Lubricate all grease fitting locations. Make sure PTO shaft slip joint is lubricated.
Check that all hardware is properly installed.
- Check that all shields and guards are properly installed and in good condition.
- Place tractor PTO and transmission in neutral before starting engine.
- Set tractor PTO gear select lever 540 RPM operation.
- Check that no one enters the area of machine operation. Always work at a safe distance from people, pets and livestock.
- Know your controls and how to stop tractor, engine and PTO quickly in an emergency.
READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR.
- To avoid accident or injury, do not allow anyone to operate this equipment without proper instructions. Any person who operates this equipment must be instructed in and be capable of the safe operation of the tractor, implement and all controls.
- Check that PTO driveline shields are securely locked and clear the swinging drawbar.

Safety is a primary concern in the design and manufacture of our products.

**Unfortunately, our efforts to provide safe equipment can be wiped out
by a single careless act of an operator.**

STORAGE SAFETY

Disengage the PTO before dumping. Never attempt to dump the mixer with the mixer running - PTO damage will result. Always dump the mixer slowly to avoid splashing the mixture. Be careful not to let the mixer dump too far and bind the hydraulic cylinder. Use a shovel to remove the last of the mixture.



CAUTION!

TURN PTO OFF

Before Dumping Mixer

Never Exceed 25° Angle At The PTO Shaft U-Joint

MAINTENANCE

WARNING!

Before servicing the machine, disengage the PTO, engage the parking brake or place the transmission in "park", shut off the tractor and remove the key. Keep clear of rotating parts; stay on tractor seat until all motion has stopped.

If work is required while the mixer is attached to the tractor, the mixer must be blocked securely.

NEVER trust the tractor's hydraulic system.

After mixing concrete, or any material that clings to the side of the drum, be sure to clean it thoroughly when finished. In mixing concrete, if there are lapses between batches, it is a good idea to add some water and rinse so that the concrete will not set in the drum.

Thoroughly clean the grease zerks before servicing. Dirt mixed with lubricant will rapidly wear parts and destroy bearings.

Check the drive chain and if necessary, adjust with the tightener. Carefully check and replace any worn or damaged parts.

TRANSPORTING

CAUTION!

When traveling on public roads, whether at night or during the day, use accessory light and devices for adequate warnings to operators of other vehicles. Comply with all federal, state and local laws

- Be sure to reduce tractor ground speed when turning; and leave enough clearance so the mixer does not contact obstacles such as buildings, trees or fences.
- Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
- When traveling over rough or hilly terrain, slow down and use extra care.
- Read all safety warnings in the front of the manual

STORAGE

- At the end of the working season or when the mixer will not be used for a long period, it is good practice to clean off any dirt or grease that may have accumulated on any of the moving parts.
- Store mixer in a dry location. If mixer must be stored outside, place drum so that the mouth of the drum is down to prevent water from accumulating in the drum.
- Make sure the hydraulic toplink cylinder has the rod end fully retracted into cylinder body and that the breather hole on the cylinder body is positioned where water cannot enter. (It is recommended that the hydraulic toplink cylinder be stored inside).
- Inspect the mixer for loose, damaged or worn parts and adjust or replace if needed.
- Lubricate as noted.
- Collapse driveshaft as far as possible and store it to prevent ground contact. Place blocks under mixer skids.
- Sand areas where paint is chipped or worn and repaint to prevent rust.
- Always store in a safe place away from children or livestock

SAFETY TRAINING

Mixer will not tilt enough when dumping	<ul style="list-style-type: none"> ■ Geometry of pull pin location and topline is not correct – change location of topline connection to mixer and location of pull pins. ■ Low profile tractor being used – use different tractor. ■ Tractor front end is positioned downhill at dumping site – dump mix on level ground into wheelbarrow and transport to actual dump site.
Mixer dumps and won't come back to load position.	<ul style="list-style-type: none"> ■ Hydraulic hose from cylinder not connected to tractor hydraulic remote outlet. ■ Hydraulic topline cylinder on mixer is single acting and is incompatible with tractor remote outlet valve – Check manual and tractor dealer to see if different valve is available. ■ Low oil in tractor reservoir – add oil. ■ Front of tractor is headed downhill and oil level in reservoir is low – add oil.
Mixer will not dump.	<ul style="list-style-type: none"> ■ Hydraulic topline not connected properly to tractor hydraulic outlet. ■ Tractor hydraulic valve not working properly – check tractor manual. ■ Low oil level in tractor hydraulic reservoir – check oil level. ■ See – Mixer Not Tilting Enough Section and Mixer Dumps And Won't Come Back Section.
Drive chain breaks	<ul style="list-style-type: none"> ■ Loading mixer while drum is stationary and then trying to start a loaded drum to turn – always load into a turning mixer. ■ Using a tractor without live PTO and having to stop/start mixer drum or mix less load. ■ Too much load for mixer – reduce amount of material. ■ Drive chain not properly tightened. ■ Drive chain is rusted and has been setting outside – replace chain and lubricate regularly. ■ Tractor engine RPM too high when engaging PTO – always slow engine RPM when engaging or disengaging PTO.
Mixer shakes excessively.	<ul style="list-style-type: none"> ■ Stabilizer straps not attached to tractor 3PT, hitch lift arms – install stabilizer. ■ Mix too dry and has formed a clump – add water. ■ Material has large chunks – break up material before putting in mixer drum. ■ Tractor engine idle too slow – increase engine RPM slightly. ■ PTO driveline is operating at a severe angle – raise or lower 3PT, hitch so driveline is operating with minimum angle.

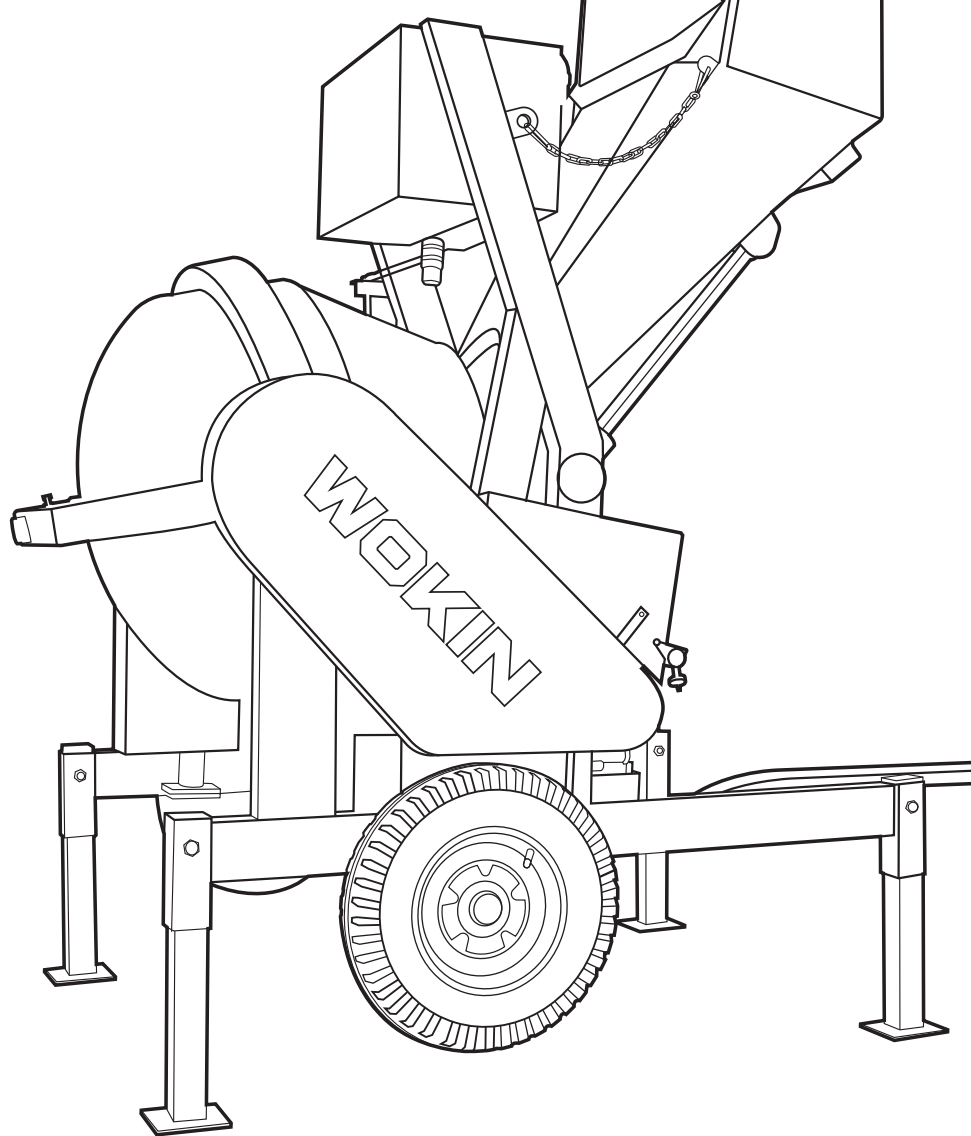
SAFETY PRECAUTIONS

MOST ACCIDENTS OCCUR BECAUSE OF NEGLIGENCE OR CARELESSNESS.

AVOID NEEDLESS ACCIDENTS BY FOLLOWING ALL OF THE SAFETY PRECAUTIONS LISTED BELOW

- Machinery should be operated only by those who are responsible and are authorized to do so.
 - Stop the engine, lower all equipment, lock the brakes and remove the ignition key before dismounting from the tractor.
- Never stand between tractor and implement while tractor is being backed to hitch.
- Loose fitting clothing should not be worn, to avoid catching on various parts.
- Detach implement in area where children normally do not play.
- When performing adjustments or maintenance on an implement, first lower it to the ground or block it securely at a workable height.
- Only a qualified operator should be permitted on tractor when in operation; no riders allowed.
- Make certain everyone is in the clear before starting tractor or raising or lowering equipment.
- Operate the tractor and implement only while seated in the driver's seat.
- Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.
- A heavy load can cause instability of the tractor. Use extreme care during road travel.

Slow down on turns and watch for bumps. Tractor may need front counterweights to counter-balance the weight of the implement.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to the edge of ditches or creeks.
- Do not transport implement on public roads without reflectors and slow moving vehicle emblem in daylight and with approved warning lights at night and other periods of poor visibility.
- Due to the width of some implements, use extra caution on highways, farm roads and when approaching gates.
- Always be sure the implement is in the proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.



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