

MULTI TOOL

OPERATING & MAINTENANCE INSTRUCTIONS

GRAPHIC WARNINGS

Because a trimmer/cutter is a high-speed, fast cutting power tool, special safety precaution must be observed to reduce the risk of personal injury. Read this manual carefully. Be familiar with the controls and the proper use of the unit. Know how to shut it off, and how to unhook a harnessed unit quickly.



This graphic accompanied by the words WARNING and DANGER calls attention to an act of a condition which can lead to SERIOUS INJURY.



READ & UNDERSTAND Operator's Manual and Safety Manual.



ALWAYS WEAR EYE AND EAR PROTECTION.



Always TURN OFF ENGINE and make sure the cutting tool has stopped before cleaning, removing or adjusting blade.



WARNING! Never modify a trimmer or cutter in any way. Improper use of any trimmer can cause SERIOUS OR FATAL PERSONAL INJURY.

WARNING \triangle DANGER

The engine exhaust from this product contains chemicals to cause cancer, birth defects, of other reproductive harm.

Specifications, descriptions and illustrative material in this manual are as accurate as known at the time of publication, but are subject to change without notice.Illustrations may include optional equipment and accessories, and may not include all standard equipment.

SAFETY RULES & PRECAUTIONS

Proper safety precautions must be observed. Like all power equipment this unit must be handled carefully. DO NOT EXPOSE YOURSELF OR OTHERS TO DANGER

Follow these general rules. Do not permit others to use this machine unless they are thoroughly responsible and have read, and understand the machine manual and are trained in its operation.

- 1. Always wear safety goggles for eye protection. Dress properly, do not wear loose clothing or jewelry that could become caught in moving parts of the unit. Safe, sturdy, nonskid footwear should always be worn. Long hair should be tied back. It is recommended that legs and feet be covered to protect from flying debris during operation.
- 2. Inspect the entire machine for loose parts (nuts, bolts, screws, etc.) and any damage. Repair or replace as necessary before using the machine.
- 3. DO NOT USE any attachment with this power head other than the ones recommended by our company. Serious injury to the operator or bystanders could result as well as damage to the machine.
- 4. Keep the handles free from oil and fuel.
- 5. Always use proper handles and shoulder strap when cutting.
- 6. Do not smoke while mixing fuel or filling tank.
- 7. Do not mix fuel in an enclosed room or near open flames. Assure adequate ventilation.
- 8. Always mix and store the fuel in a properly marked container that is approved by local codes and ordinances for such usage.
- 9. Never remove the fuel tank cap while the engine is running.
- 10. Never start or run the engage inside a closed room or building. Fumes from the exhaust contain dangerous carbon monoxide.
- 11. Never attempt to make engine adjustments while the unit is running and strapped to the operator. Always make engine adjustments with the unit resting on a flat, clear surface.

Do not use the unit if it is damaged or poorly adjusted. Never remove the machine's guard.

• Inspect the area to be cut and remove all debris that could become entangled in the

nylon cutting head. Also remove any objects that the unit may throw during cutting.

• Keep children away. Onlookers should be kept at a safe distance from the work area,

at least 15 METE.R(50 FEET)

• Never leave the machine unattended.

• Do not use this unit for any job other than those for which it is intended as described

in this manual.

• Do not overreach. Keep proper footing and balance at all times. Do not run the unit

while standing on a ladder or on any other unstable footing location.

• Keep hands and feet clear of the nylon cutting head while unit is in use .

• Do not use this type of machine for sweeping away debris.

• Do not use the unit when you are tired, ill or under the influence of medication, drugs

or alcohol.

• Use nylon cutting head which is free of damage. If a stone or any other obstacle is

hit, stop the engine and check the nylon cutting head. A broken or unbalanced nylon

cutting head must never be used.

FOLLOW INSTRUCTION FOR CHANGING ACCESSORIES.

• Do not store in a closed area where fuel vapors can reach an open flame from hot

water heaters, heaters, furnaces, etc. Store in a locked, well ventilated area only.

lacksquare ensure safe and proper performance of your product. These part are available from

your dealer. The use of any other accessories or attachments may cause a potential hazard or injury to the user, damage to the machine and void this warranty.

• Clean the machine completely, especially, the fuel tank, its surroundings, and the air

cleaner.

• When refueling, be sure to stop the engine and confirm that it is cooled down. Never

refuel when the engine is running or hot. When gasoline spills, be sure to wipe it up

completely and properly dispose of those materials before starting the engine.

• Stay clear of other workers or bystanders by at least 15 meters /50 feet.

• When ever approaching an operator of the machine, carefully call his attention and

confirm that the operator stops the engine. Be careful not to startle or distract the operator which can cause an unsafe situation.

• Never touch the nylon cutting head when ever the engine is running. If it is necessary

to adjust the protector or nylon cutting head, be sure to stop the engine and confirm that

the nylon cutting head has stopped running.

• The engine should be turned off when the machine is moved between work areas.

• Be careful not to hit the nylon cutting head against stones, or the ground.

Unreasonable rough operation will shorten the life of the machine as well as create an unsafe environment for yourself and those around you.

• Pay attention to loosening and overheating of parts. If there is any abnormality of

the machine, stop operation immediately and check the machine carefully. If necessary, have the machine serviced by a authorized dealer. Never continue to operate a machine which may be malfunctioning.

• In start-up or during operation of the engine, never touch hot parts such as the muffler, the high voltage wire or the spark plug.

• After the engine has stopped, the muffler is still hot. Never place the machine in

any places where there are flammable materials (dry grass, etc.), combustible gasses or

combustible liquids.

• Pay special attention to operation in the rain or just after the rain as the ground may

be slippery.

• If you slip or fall to the ground or into a hole, release the throttle lever immediately.

• Be careful not to drop the machine or hit it against obstacles.

• Before proceeding to adjust or repair the machine, be sure to stop the engine and

detach the spark plug cap from the spark plug.

• When the machine is placed in storage for a long time, drain fuel from the fuel tank

and carburetor, clean the parts, move the machine to a safe place and confirm that the

engine is cooled down.

• Make periodic inspections to assure safe and efficient operation. For a thorough inspection of your machine, please contact a dealer.

• Keep the machine away from fire or sparks.

It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold.

Exposure to vibration and cold may cause tingling and burning sensations followed by

loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

Keep your body warm, especially the head, neck, feet, ankles, hands and wrists. Maintain good blood circulation by performing vigorous arm exercises during frequent

work breaks and also by not smoking.

Limit the hours of operation. Try to fill each day with jobs where operating the brush

cutter or other hand-held power equipment is not required.

If you experience discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself

to cold and vibration.

•Always wear ear protection, loud noise for long time can make hearing debase even

lost hearing.

Total face and head protection must be wear to prevent damage from plummet or branch.

• Wear no-slip heavy duty work gloves to improve your grip on the brush cutter handle. Gloves also reduce the transmission of machine vibration to your hands.

WARNING: The cutter area is still dangerous while the machine is coasting to a stop.

RULES FOR SAFE OPERATION

WARNING DANGER

All models trimmers and brushcutters can throw small stone, metal or small objects as well as the material being cut. Read these Rules for Safe Operation with care. Follow the instructions in your operator's manual

Read the operator's manual carefully. Be thoroughly familiar with the controls and proper use of the unit. Know how to stop the unit and shut off the engine.Know how to unhook a harnessed unit quickly. Never allow anyone to use the unit without proper instruction.Be sure the operator wears the foot, leg, eye, face and hearing protection. Do not rely on the debris shield on the unit to protect your eyes from ricocheting or thrown objects. Keep the area clear of bystanders, children and pets. Never allow children to operate or play with the unit.

Do not allow anyone to enter the operating DANGER ZONE with you. The danger zone is an area 15 meters in radius (about 16 paces) or 50 feet.

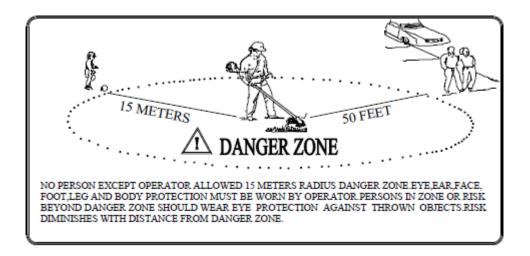
Insist that persons in the RISK ZONE beyond the danger zone wear eye protection from thrown objects. If the unit must be used where there are unprotected people, operate at a low throttle speed to reduce the risk of thrown objects. Move the stop switch to "stop" position when the engine idles, insure it reliable before cutting. Only may continue to operate the unit when stop switch is in good condition.

Routines for checking that the cutting attachment stops turning when the engine idles.

WARNING DANGER

In addition to head, eye, face and ear protectors shoes to protect your feet improve your footing on slippery surfaces. Do not wear ties, jewelry, or loose, dangling clothing which could be caught in the unit. Do not wear open-toed footwear, or go barefoot or bare legged. In certain situations you must wear total face and head protection.

Pay attention not to kick back and blade thrust.



PREPARING FOR OPERATIONS

WHEN MIXING GASOLINE WITH TWO CYCLE ENGINE OIL, USE ONLY GASOLINE WHICH CONTAINS NO ETHANOL OR METHANOL(TYPES OF ALCOHOL). THIS WILL HELP TO AVOID POSSIBLE DAMAGE TO ENGINE FUEL LINES AND OTHER ENGINE PARTS. DO NOT MIX GASOLINE AND OIL DIRECTLY IN THE ENGINE FUEL TANK.

IMPORTANT: Failure to follow proper fuel mix instructions may cause damage to the engine.

1. When preparing fuel mixture, mix only the amount needed for the job you are to do. Do not use fuel that has been stored longer than two months. Fuel mixture stored longer than this will cause hard starting and poor performance. If fuel mix has been stored longer than this time, it should be removed and filled with fresh mixture.

WARNING

2.Never fill the fuel tank to the very top.(under 3/4 of the tank)

3.Never add fuel to the tank in a closed non-ventilated area.

4.Do not add fuel to this unit close to an open fire or sparks.

5.Be sure to wipe off spilled fuel before attempting to start engine

6.Do not attempt to refuel a hot engine.

CHECK POINTS BEFORE OPERATION

1. Check for loose bolts, nuts and fittings.

2. Check the air cleaner for dirt. Clean the air filter of all dirt, etc. before operation.

3. Check to be sure that protector is securely in place.

- 4. Check to be sure that fuel is not leak.
- 5. Check to be sure that blade is no crack.

WARNING

The engine exhaust from this product contains chemicals known to cause cancer, birth defects, or other reproductive harm.

TROUBLESHOOTING GUIDE

1.FAILURE TO START

symptom				probable cause	remedy
	spark	fule system abnormality		these is no fuel in tank fuel filter obstruct	add fuel in tank clean fuel filter
cylinder compress	plug spark normal	fule system normal	fule	fuel is too dirty there is water in fuel there is too much fuel in cylinder mixture ratio is improper	instead fuel instead fuel tear down spark plug and dry it mixture proration
pressure	fule	high voltage	spark	spark plug fouled with oily deposits	clean the oily deposits
normal	system	wire spark	plug	spark plug insulation damage	replace spark plug
		normal		spark gap is too large or small	adjust spark gap 0.6-0.7mm
	normal	high volta wire spark	-	high voltage wire breach or break off	replace or tighten
			mality	coil looseness	tighten
fule system	ignition system	compress press is shortage		piston ring attrite piston ring is breaked piston ring cementation spark plug looseness conjoint surface of the cylinder and crank cass leak	replace a new replace eliminate tighten eliminate
normal	normal	compress normal		high voltage wire and spark plug contact badness stop switch failure or short circuit	tighten the spark plug cap repair or replace

TROUBLESHOOTING GUIDE

2.LOW OUTPUT

symptom	probable cause	remedy
flameout when speedup	fuel filter obstruct, fall short of fuel	clean fuel filter、clean fuel road、 adjust carburetor
the smoke is thin, carburetor spout backward	muffler fouled with oily deposits	clean the oily deposits
compress press is shortage	piston、 piston ring、 cylinder attrite、	replace piston、piston ring
engine leak	conjoint surface of the cylinder and crank cass leak	repair
the end of two crank shaft leak	the seal is bad	replace seal
	engine overheats	avoid use it for long time high speed and heavy load
	burning room fouled with oily deposits	clean the oily deposits

3.ENGINE RUNNING UNSTABLE

symptom	probable cause	remedy
there are knock sound in engine	piston、piston ring, cylinder attrite, piston pin、piston attrite bearing of crank shaft attrite	replace piston、piston ring replace piston pin、piston replace bearing
there are metal knock sound	engine overheats burning room fouled with oily deposits	avoid use it for long time high speed and heavy load clean the oily deposits replace require branded octane
engine ignition break off	gasoline branded is unfit there is water in fuel	instead fuel
	spark gap is wrong coil gap is wrong	adjust spark gap 0.6-0.7mm adjust coil gap 0.3-0.4mm

4. THE ENGINE SUDDENLY STOPPED

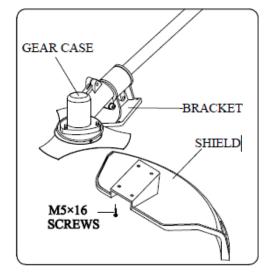
probable cause	remedy	
fuel is use up	add fuel	
spark plug fouled with oily deposits and short circuit	clean the oily deposits	
high voltage wire fall off	connect	

ASSEMBLY

INSTALLING PLASTIC SHIELD

Install the safety cover on the shaft with the safety cover bracket and the screws provided.

Tighten the screws after setting the safety cover bracket at the appropriate position.

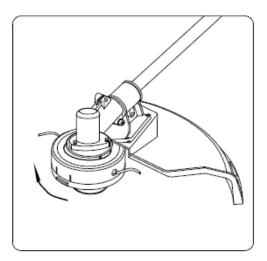




INSTALLING NYLON LINE CUTTER HEAD

Align hole in adapter plate with hole in shaft and install locking tool.

Thread cutter head onto shaft (turning it clockwise) until it is tight. Remove locking tool.



ASSEMBLY

INSTALLING HANDLE

Install handle in bracket .Position handle in a comfortable operating position and tighten four M5×25 screws.

BLADE INSTALLATION

Install holder A, the tri-blade ,holder B, bolt protection cover, in this order, Then clamp with a left nut.

Align hole of gear case and holder A, and insert S=4mm bar wrench.

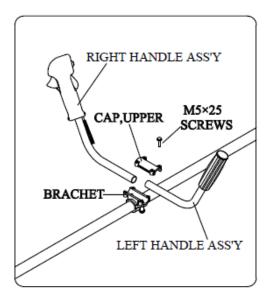
Rotate blade-fastening nut with plug box wrench in clocwise direction until securely tightened.

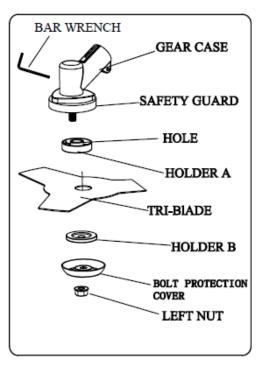


EXCESSIVE VIBRATION-STOP ENGINE IMMEDIATELY

Excessive vibration of blade means that it is not properly installed. Stop engine immediately and check blade. Blade improperly installed will cause injury.

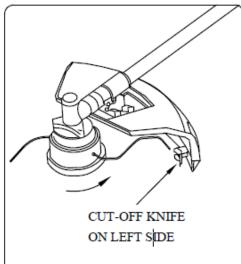
Use only our company original cutting equipment parts when servicing the unit.



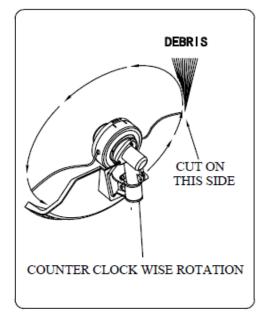




CUTTING WITH A NYLON HEAD



Line head rotates in a CLOCKWISE direction. The CUT-OFF KNIFE will be on the right side of the debris shield.



WARNING ADANGER

The proper debris shield must be in place on the unit when nylon cutting line is used. The cutting line can flap around if too much line is exposed. Always use the plastic debri shield with cut-off knife when using nylon cutting heads.

For nearly all cutting, it is good to tilt the line head so that contact is made on the part of the line circle where the line is moving AWAY from you and the debris shield. (See appropriate picture) This results in the debris being thrown AWAY from you.

warning <u>A</u>danger

Tilting the head to the wrong side will shoot the debris TOWARDS you. If the line head is held flat to the ground so that cutting occurs on the whole line circle, debris will be THROWN at you, drag will slow the engine down, and you will use up a lot of line.

warning Adanger

Use only quality nylon monofilament line of the diameter 2.5mm. Never use wire or wire-reinforced line in place of nylon trimmer line. Load your nylon line cutting head only with nylon trimmer line of the proper diameter.

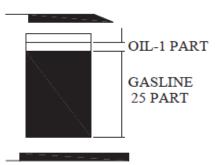
warning Adanger

Use extreme caution when operating over bare spots and gravel, because the line can throw small rock particles at high speeds. Debris shields on the unit cannot stop objects which bounce or ricochet off hard surfaces.

FUEL OIL MIXTURE

Never fill the fuel tank to the very top.
Never add fuel to the tank in a closed non-ventilated area.
Do not add fuel to this unit close to an open fire or sparks.
Be sure to wipe off spilled fuel before attempting to start engine.
Do not attempt to refuel a hot engine.

Fuel used for this model is a mixture of unlead gasoline and approved engine lubricant. When mixing gasoline with two-cycle engine oil, use only gasoline which contains NO ETHANOL or METHANOL(Types of Alcohol) Use Branded 89 octane or higher unlead gasoline known to be of good quality. This will help to avoid possible damage to engine fuel lines and other engine parts.



FUEL

The engine uses two-stroke fuel, a mixture Two-stroke fuel may separate. Shake fuel of gasoline and 2-stroke lubricant 25:1 container thoroughly before each use.

GASOLINE

Use branded 93 octane or higher unlead gasoline known to be of good quality.

STORING FUEL

Store fuel only in a clean,safe,aprroved container. Check and follow local ordinances on type and location of storage container. MIXTURE RATIO IS 25:1

GASLINE- 25 PART OIL-1 PART

Fuel mixture at the rate other than 25:1 may cause damage to the engine, Ensure mixture ratio is correct.

IMPORTANT

Two-stroke fuel may separate. Shake fuel container thoroughly before each use. Stored fuel ages. Do not mix more fuel than you expect to use within a month.

FUEL AND OIL MIXTURE

Inspect fuel tank making sure that it is clean and fill with fresh fuel. Use a mixture of 25-1.

PREPARING FOR OPERATIONS

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WARNING

2.Never fill the fuel tank to the very top.(under 3/4 of the tank)

3.Never add fuel to the tank in a closed non-ventilated area.

4.Do not add fuel to this unit close to an open fire or sparks.

5.Be sure to wipe off spilled fuel before attempting to start engine

6.Do not attempt to refuel a hot engine.

CHECK POINTS BEFORE OPERATION

- 1. Check for loose bolts, nuts and fittings.
- 2. Check the air cleaner for dirt. Clean the air filter of all dirt, etc. before operation.
- 3. Check to be sure that protector is securely in place.
- 4. Check to be sure that fuel is not leak.
- 5. Check to be sure that blade is no crack.



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OPERATIONS



ENGINE STARTING AND STOPPING PROCEDURES

STARTING COLD ENGINE

1.Set the stop switch to ON().

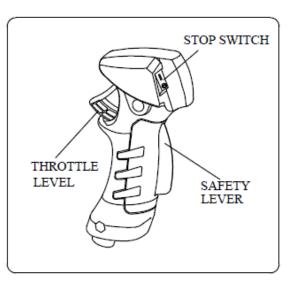
2. Give a gentle push on the primer pump repeatedly (7-10times) until fuel comes into the primer pump.

3.Cold Starts:Push choke to CLOSE.

4.Pull starter handle (3-5times)until engine false fires.

5.Push choke lever to OPEN (excessive cranking with choke lever will cause flooding engine making it difficult to start.)

6.Pull starter handle until engine starts. 7.Allow engine to warm up for a few minutes before using.



STARTING WARM ENGINE

 If fuel tank was not run dry, pull starter one to three times and engine should start.

DO NOT USE CHOKE

 If fuel tank was run dry, after refilling repeat steps 3 thru 7 in STARTING COLD ENGINE.

STOPPING THE ENGINE

Move switch to STOP position.

MAINTENANCE & CARE

AIR FILTER

- Accumulated dust in the air filter will reduce engine efficiency. Increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
- Light surface dust can readily be removed by tapping the filter. Heavy deposits should be washed out in suitable solvent.
- Remove filter cover by loosening air filter cover knob.

ADJUSTING CARBURETOR NOTE

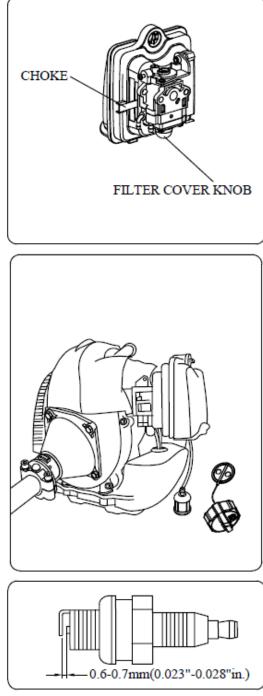
Do not adjust carburetor unless necessary. If you have trouble with the carburetor, see your dealer. Improper adjustment may cause engine damage and void warranty.

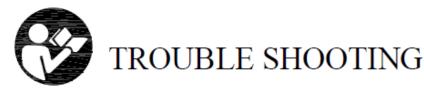
FUEL FILTER

- Fuel tank is fitted with a filter.
 Filter is situated at the free end of fuel pipe and can be picked out through fuel port with a piece of hooked wire or the like.
- Check the fuel filter periodically. Do not allow dust to enter into fuel tank.Clogged filter will cause difficulty in starting engine or abnormalities in engine performance.
- When filter is dirty, replace the filter.
- When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with gasoline.

CHECK SPARK PLUG

•Do not attempt to remove the plug from a hot engine in order to avoid possible damage to the threads.





- Clean or replace the plug if fouled with heavy oily deposits.
- Replace the plug if the center electrode is worn rounded at the end.
- Spark gap 0.6-0.7mm (.023".028")
- Fastening torque =145-155kg.cm(125-135in.lb)

TRANSPORT, HANDLING

 Blade guard should be installed when transport, handing of the unit.

INSTALLING BLADE GUARD

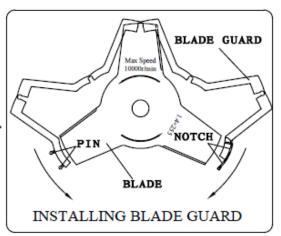
Clefte the blade guard and install on the **blade**, then put the pin into the guard notch.

- The engine should be turned off when the unit is moved between work areas.
- After the engine has stopped ,the muffler is still hot. never touch hot Parts such as the muffler.
- Confirm that the fuel is not leaked from tank.

EXTENDED STORAGE

- Inspect, clean and repair unit if necessary.
- Remove all fuel from tank.
- Start engine-This will consume all fuel in fuel line and carburetor.
- Remove spark plug and pour one tea spoon of clean motor oil into spark plug hole of cylinder-replace spark plug.
- Store in clean, dry, dust free area.

FAILURES such as difficulty in starting engine, irrgularity in functions and abnormality in performance can normally be prevented if careful attention is paid to all operating instructions and maintenance procedures. Should the engine not function properly, check the following:



- That the fuel system is in good condition and fuel is flowing to the engine.
- The ignition system is in good condition and the spark plug, sparks correctly.
- Compression of the engine is adequate.

FAILURE TO START

- Dispose of fuel in tank.
- Insure that fuel is fresh and clean.
- Check fuel filter to make sure it is clean. (Replace filter if necessary).
- Make sure air filter elements are clean.
- Install new, properly gapped spark plug.
- When there is serious trouble with the unit, do not try to repair it yourself, but have your distributor or dealer do it for you.

DECLARATION OF CONFORMITY

Œ	DECLARATION OF CONFORMITY
	This is an important document and should be retained.
We hereby	declare that this product(s) complies with the following directive(s
Type of eq	quipment: MULTI TOOL
APPLICATIO	ON OF EC COUNCIL DIRECTIVES:
2006/42/E	C Machinery Directive (MD)
2004/108/	EC Electromagnetic Compatibility Directive (EMC)
97/68/EC a	amended by 2010/26/EC Directive of Emission
2000/14 EC	C & 2005 /88 EC Directive of EU Noise
USING THE	FOLLOWING DRAFT AND TRANSPOSED STANDARDS
EN ISO 118	06-1:2011
EN ISO 116	80-1:2011
EN ISO 105	17:2009
EN ISO 149	82:2009
Date of issu	ae: 04.05.2017
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Signed:	Kugbir Johan
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