

SCANMASKIN 32 PROPANE

MANUAL



SCANMASKIN

Dear Customer!

Thank you for choosing Scanmaskin as your supplier.

We wish you all the best with your new Scanmaskin 32 World Series Propane and hope that it meets your expectations.

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IMPORTANT INFORMATION!

This Manual only concerns the floor grinding machines "SCANMASKIN 32 World Series Propane" hereby referred to as "SCANMASKIN 32 WS PROPANE". SCANMASKIN 32 WS PROPANE may only be used for grinding horizontal surfaces approved by Scanmaskin Sweden AB.

If SCANMASKIN 32 WS PROPANE is used for other purposes or handled in ways other than that described in this Manual, Scanmaskin Sweden AB disclaims all responsibility.

Especially note the section "2Safety Regulations". Read the Manual before using the floor grinding machine SCANMASKIN 32 WS. The spare parts, grinding discs used on SCANMASKIN 32 WS PROPANE must be approved by Scanmaskin Sweden AB.

SCANMASKIN

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1 SPECIFICATIONS

1.1 Power specifications

To find the specifications that apply to your machine, check the information plate at the back of the machine

Engine	Kawasaki FX751	25hp / 18,5kW
Start battery	12VDC	45Ah
Fuse	Next to start motor	20Amp
Propane tank	Steel	20lbs / 9kg

Table 1-1 Power specifications

1.2 Mechanical specifications

Model	SCANMASKIN 32 WS PROPANE
Grinding width	785 mm (31")
Grinding head diameter	280 mm (11")
Grinding head speed	350 - 850 Rpm
Mass	610kg (1345 lbs)
Water tank	20 liter / 5.2 gal
Gear barrel	Synchronized

Table 1-2 Mechanical specifications

Measurements of SCANMASKIN 32 WS PROPANE

Width	800 mm	(32")
Height	1250 mm	(49.2")
Length	1550 mm	(61")

Measurements of shipping box

Width	850 mm	(33.5")
Height	1500 mm	(59")
Length	1600 mm	(63")

Ambient temperature range during operation	-10°C to +50°C	(14°F to 122°F)
Ambient temperature range during storage	-40°C to +70°C	(-40°F to 158°F)



When using water, the ambient temperature must never fall below 0° C (32°F).



Figure 1 SCANMASKIN 32 WS PROPANE

SCANMASKIN 32 WS PROPANE has a built-in water tank (1.) that can be used to keep the grinding tools at the lower temperature and in those occasions where it's not possible to use a dust collector together with the machine.

The water tank has a built-in system that prevents the water from getting out while the machine is tilted back for grinding tool exchange. It also has a filter that prevents larger debris to get into the tank. System in general:

Inside the floating cover over the machine house there is a sprinkler system connected to the water tank. To engage the water flow after filling he water tank set the control on the operation panel Water to "1". To stop the flow, turn the control nub to "0"

At the backs lower end of the machine chassis underneath the electrical cabinet there is a valve to adjust the flow of water.

1.4 Tools



The machine must be equipped with tools approved by Scanmaskin Sweden AB before operation. Failure to follow the directions in this Manual will void the warranty



See "Grinding guide" for information about available tools and "4.13 Changing tools" for information about how to change the tools.

The tools are fitted using the Scan-On system for easy fitting.

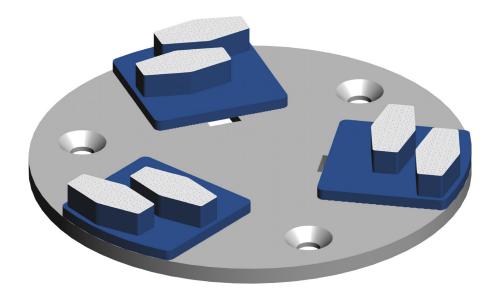


Figure 2 Scan-On plate with tools fitted.

1.5 Range of application



SCANMASKIN 32 WS PROPANE is exclusively designed to process horizontal surfaces. SCAN-MASKIN 32 WS PROPANE must not be used for other purposes than stated in this Manual. The manufacturer will not be liable for damage or injury resulting from incorrect usage of SCAN-MASKIN 32 WS PROPANE. Failure to follow the directions in this Manual will void the warranty.

Typical applications

- Removal of old coatings, carpets, putty from hard surfaces
- Removal of undulated concrete surfaces
- Preparation of the surface for coatings
- Polishing of the surface
- Removal of coating defects
- Removal of glue residues

1.6 Scope of supply

The following parts are included with the standard SCANMASKIN 32 WS PROPANE grinding machine:

- Start key
- Propane tank
- Manual

1.7 Overview

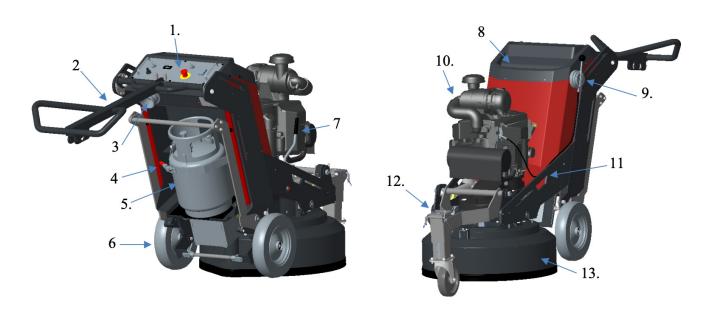


Figure 3 Overview of SCANMASKIN 32 WS PROPANE

Item	Description	Reference
1	Control panel	4.4Control panel
2	Handle	
3	Dust collector connection	6 Spare Parts
4	Release Handel	6 Spare Parts
5	Propane tank	581072
6	Wheel	6 Spare Parts
7	Front wheel hydraulic pump	6 Spare Parts
8	Water inlet	
9	Throttle	6 Spare Parts
10	Motor	1.1Power specifications
11	Lifting points	3.3 Lifting
12	Front wheel	6 Spare Parts
13	Floating Cover	6 Spare Parts

Table 1-3 Machine parts overview

2 SAFETY REGULATIONS



Read this entire chapter carefully! Failure to comply with safety regulations may result in serious injuries or damages.

2.1 Legend

\triangle	Notation regarding safety
4	Notation regarding electrical safety
	Notation regarding safety during transport
	Tipping hazard
T	See reference

2.2 Safety precautions

Any machine, if it is not used according the regulations, may be hazardous for operating, setting-up and service personnel. The operating authority is responsible for compliance with the safety regulations during operation and maintenance, and for the use of safety devices supplied with the machine, as well as the provision of appropriate additional safety devices!

Eye and ear protection must be worn at all times.

Never operate the machine when it's not in its upright position.

Make sure there is no debris in the work area.

Check the work area for screws or other hard objects in the concrete. Don't use the machine if there are any foreign objects stuck into the surface. Such objects must be removed prior to operation of machine.



Read "2.3 Propane safety" and "2.10 Safety regarding operation of machine" thoroughly before operation!

2.3 Propane safety



Propane is a flammable gas whose vapors are heavier than air. As in the case with gasoline, propane can explode if the proper cautions are not heeded. Propane is odorized with an agent having a distinct odor that is recognizable at very low concentrations. This helps identifying leaks, even when they are small.

Awareness and basic safety precautions are required when working with propane. As long as these precautions are followed, risk is negligible. Ignorance, however, could pose needless risk.

The two greatest hazards with propane powered floor machines are:

- Carbone Monoxide Poisoning: This is the most frequently reported incident associated with propane powered machines and is caused by excessive exhaust emissions. The symptoms are headache, dizziness and nausea. A major cause involves engines with poor preventive maintenance practices. Usually those with dirty air filters and machines operated in confined areas without adequate ventilation. Another cause may be substandard, inexpensive machines with no emission control technology and improperly set carburetion.
- Overfill Fuel Tanks: Nearly all fire related incidents reported result from bringing a tank into a building without first checking for overfill. This action is dangerous, unwise and unnecessary.

2.4 Fire Safety



Beware of the potential danger of fire or explosion when using propane, and take normal fire-safety precautions.

Fire: There is possibilities of fire from LPG vapor Leaking or venting from fuel tanks or carburetion equipment.

Explosion: LPG vapor concentrated or confined to a small, restricted space may explode or ignite.

Propane may experience a BLEVE, a boiling liquid expanding vapor explosion.

2.5 Emissions

- All propane powered floor machines produce emissions. Most are harmless, but some are dangerous and can be fatal. Carbon monoxide (CO) poses the greatest risk, since CO can be lethal within as little as 30 minutes exposure at 3,000 parts per million (ppm) concentrations.
- Carbon monoxide is an invisible odorless colorless gas created when fossil fules (such as gasoline, wood, coal, propane, oil and methane) burn incompletely.

2.6 Hazard Communication

A Material Safety Data Sheet for propane shall be posted in all buildings where propane will be used.

Because propane is odorized, it is easily detected at levels of just a few parts per million, which is much less than the exposure limit of 1000 parts per million.



- If you smell propane while operating a propane floor machine, do the following:
- 1. Stop the engine: Push the throttle to the stop position turn the key switch to the off position.
- 2. Shut off the service valve on the propane cylinder.
- 3. Move the floor machine to a well-ventilated area.
- 4. Remove the cylinder from the machine and take it outside the building.
- 5. If the cylinder is leaking, contact a DOT approved repair shop to determine the cause of the leak and have the shop, not you, repair it.



- If a fire occurs while the machine is being operated do the following:
- 1. Stop the engine: pull the throttle to the stop position (if present) or turn the key switch to the off position.
- 2. Shut off the service valve on the propane cylinder if possible. Be careful not to be burned.
- 3. Move the machine outside if possible. If not possible, move it to a well-ventilated area away from flammable materials.
- 4. Do not attempt to extinguish the flame from a gas leak. If you do, the gas will build up in the area and could re-ignite. Starve the fire by shutting off the supply of gas.
- 5. Have the machine and cylinder inspected before using them again.

2.7 Local agencies and regulations

2.7.1 • NFPA

Operating a propane powered floor machine requires compliance with certain safety regulations.

The National Fire Protection Agency (NFPA) Standard for Storage and Handling of LP Gas is the appropriate authority for safe propane use. A copy of this publication is available through the NPFA in Quincy, MA (1-800-334-3555). Among its regulations, NFPA #58 requires that all personnel employed in the handling of propane gas be trained in its proper handling and operating procedures. It also requires them to carry a written certification from their employer or training supervisor to attest to such training. Although this is directed mainly to those who fill and transport liquid propane gas, Onyx Environmental Solutions recommends that operators of propane powered floor care machines in public places be trained and certified as well.

With regard to operation of propane powered floor care equipment, even though NFPA 58 8-4.5 says "these machines shall be permitted to be used in buildings frequented by the public, including the times when such buildings are occupied by the public," Onyx Environmental Solutions suggests usage when occupancy of a given work area is minimal.

• CARB/EPA

The California Air Resource Board (CARB) and Environmental Protection Agency (EPA) also set limits for propane-powered engines used outdoors, but CARB/EPA approval does not signify that the engine is safe to use indoors.

• CGA

The Canadian Gas Association (CGA) has set a limit of 1500 ppm CO in exhaust flow.

• OSHA

For propane powered machines used indoors, the Occupational Health and Safety Administration (OSHA) has established a limit of 50 ppm CO for 8-hour time weighted average (TWA) in ambient air and is considering a limit of 800 ppm CO in exhaust flow.

• DOT

The Department of Transportation (DOT) has established regulations regarding the safety of fuel tanks including the ones used on propane powered floor care machines.

• Local Agencies

Local law enforcement agencies such as the local Fire Marshall also rely on independent testing labs such as UL and CGA before giving their approval of the use of some equipment. These labs thoroughly test equipment and submit their stamp of approval only after rigorous testing.

While not being required by all law enforcement agencies, the stamp of approval by these agencies further assures the operator that he or she is working with and around safe equipment.

NOTE: In order to reduce all consequences of the abovementioned risks, we advise that machine operators will follow the instructions in the manual at all times.



RESIDUAL RISKS

During the normal operating and maintenance cycles, the operator is exposed to few residual risks, which cannot be eliminated due to the nature of the operations.

2.8 Organizational measures



The user Manual is to be kept near the location where the machine is being operated and must be within reach at all times.

In addition to this user Manual general and legal regulations regarding accident prevention and environmental protection must be complied with as per local regulations.

Such duties may, for example, relate to the handling of hazardous substances, or to the provision and wearing of personal protection equipment, as well as compliance with traffic regulations.

The user Manual must be supplemented by other instructions, including the duty to supervise and report incidents relating to particular working practices, for example work organization, work procedures and personnel safety.

Personnel entrusted with working with the machine must read the User Manual before starting work, in particular the "2Safety Regulations" chapter. To read these instructions after work is commenced is too late. This particularly applies to incidental activities such as setting up the

equipment, carrying out maintenance work or training staff to work with the machine.

From time to time the working practices of the operators are to be checked by a supervisor especially to the items regarding awareness of safety and hazards.

Always wear Carbon Monoxide Indicator badges as an extra precaution. The plastic indicator contains a colored indicator button that darkens in the presence of Carbon Monoxide. The relative darkness of the indicator button indicates the level of CO in the ambient atmosphere. Most indicator badges have a useful life of 30 days, depending on the concentration of contaminants, humidity, and temperature.

Operators must tie back long hair, and not wear loose clothing or jewelry including rings. There is a risk of injury through items getting caught, or being drawn into moving machinery.

Eye and ear protection must be worn at all times!

Use personnel protection equipment if necessary or required by local regulations! Take notice of all safety and hazard notices on the machine!

All safety and hazard notices at or on the machine must be kept complete and legible!

If safety-critical changes occur to the machine or its working method, the machine must be shut down immediately! The cause of the fault must be established, and rectified.

Changes, add-ons or conversation to the machine, which might impair safety, must not be made, without the manufacturer's permission!

This applies in particular to the fitting and adjustment of safety devices.

Spare parts must comply with the technical requirements specified by the manufacturer. This is always guaranteed if original spare parts are used.

Intervals for recurring checks and inspections specified in this User Manual must be complied with!

To perform maintenance work correctly it is imperative to be equipped with the proper tools for the task in question.

Repairs may only be made by Scanmaskin Sweden AB certified service technicians.

Some grinding work may generate sparks under certain circumstances. Personnel working with the machine must therefore be aware of the risk of fire and how to handle a fire situation properly.

Do not use the machine in areas with highly flammable and/or explosive materials.

2.9 Personnel qualification

Fundamental duties:

- Work on the machine may only be undertaken by trained personnel.
- Specify clearly the responsibilities of personnel for operation, setting up, servicing and maintenance work!
- Make sure that only authorized personnel operate or work on the machine!
- Define responsibilities of the machine operator, with regard to traffic safety regulations, and inform him not to take instructions from third parties who may not be complying with the local safety requirements.
- Personnel, who are being trained to operate equipment, may only use the machine under constant supervision of an experienced person!

2.10 Safety regarding operation of machine



Do not allow any method of working that impairs safety!

Recognized official procedures have to be used to ensure the machine is operated in safe and best conditions.

Only operate the machine when all safety devices and related safety equipment are present and operational!

Check the machine visually for any damage and defects at least once a day.

In the event of operational malfunction, the machine must be shut down immediately and secured!

Secure the work area around the machine in public areas providing a safety distance of at least 10 m (33 ft) from the machine.

Faults must be immediately rectified.

Carry out the switch on and switch off operations in accordance with this Manual.

Before switching on the machine make sure that no-one can be endangered when the machine starts up.

Never operate the machine when not in its upright position.

Do not switch off or remove the exhaust and or the ventilation devices whilst the machine is running!

All persons in the proximity of the machine must wear ear and eye protection as well as safety shoes. In addition, the machine operator must wear close-fitting protective clothing.

Make sure there is no debris in the work area.

Check the work area for screws or other hard objects in the concrete. Don't use the machine if there are any foreign objects stuck into the surface. Such objects must be removed prior to operation of machine



The battery power source must be equipped fused according to the table in "1.1Power specifications".

Work on electrical equipment may only be undertaken by a skilled electrician or by trained persons under the supervision of a skilled electrician as well as in accordance with the local electrical engineering regulations.

A second person must be in attendance whilst the electrical engineer is working on the equipment.

The work area must be secured against any third party entering the work area. Follow local electrical engineering regulations while working on the machine. Never leave a machine unattended. Use only tools that are insulated against electricity.

Only start work after you are familiar with the electrical engineering regulations that apply to the local area.

Only use voltage seekers that comply with the regulations when troubleshooting. From time to time check voltage seekers to ensure that they are operationally efficient.

2.11 Propane tanks



The Propane tanks are constructed of either aluminum or steel. The tank used on propane powered floor machines is classified as a 4E240 cylinder. Its rated capacity is 20lbs. and this designation refers to the model of the tank. Actual propane capacity achieved during filling can be less than, equal to, or slightly more than 20 lbs. Use only UL, CTC/DOT listed tanks.

• The propane tanks used on the floor machine is a motor fuel cylinder as listed by the Department of Transportation. Unlike the common 20-lb propane outdoor grill tanks (which are not legal for use on propane floor machines), the motor fuel cylinder has a number of safety systems designed into it to ensure your safety at all times.

2.12 Refilling propane tanks



The proper filling of propane tanks is a subject so important that it warrants special attention. Propane tanks should only be filled by qualified propane dealers.

• Most important, propane tanks should be filled no more than 80% of their rated capacity. The other 20%, which is about 4" (10 cm) from the top of the cylinder, is called the vapor space or headspace. This vapor can be compressed without causing the pressure relief valve to open and vent gas to the area around the cylinder. If there is no headspace to allow for fuel expan-

sion, the pressure relief valve will open, releasing propane gas into the atmosphere. This is a very dangerous and volatile situation as there is always the possibility that enough of the vented gas could find its way down to the floor and come in contact with a pilot light from a furnace, hot water heater, or other source of ignition. Propane changes into a gas, is -44" F (-42° C). Exposing unprotected skin to propane gas or liquid could result in frostbite injury.

• All new tanks should be vented and purged of air per manufacturer's instructions before use. Never bleed propane tanks indoors.

2.13 Storage propane tanks



When not in use, propane tanks always should be stored outside in an upright position in a secure, tamperproof, steel mesh storage cabinet. This cabinet may be located next to the building but with at least five feet (1.5 m) of space between the cabinet and the nearest building opening (door or window), also away from heat and direct sunlight.

2.14 Definition of the "Safety off position"

The machine is in a safe condition where it cannot be any hazard.

How to set the machine in the Safety off position:

- 1. Turn off the machine, with minimum throttle and remove the Start key
- 2. If a dust collector is used, switch it off
- 3. Wait for all drives to come to a complete stop
- 4. Press down the emergency button, close the valve on the propane tank
- 5. Secure against unintended restart



Always remove the start key on the machine to prevent other persons from accidentally starting it while working on the machine.

2.15 Safety regarding maintenance

Set the machine into the Safety off position before beginning any work on the machine.



See "2.14 Definition of the "safety off position"".

Never work on the machine while battery or propane tank still is connected! All parts must have come to a complete stop before beginning any work!



When the machine is lying down on its back it might tilt to its upwards position. Take extra care to prevent this from happening to ensure that no injuries or damages occur.



When the machine has been operated the grinding tools, Scan-On plates and other parts on the gear barrel may be hot. Take extra care to prevent burn injuries.

Adjustment, servicing and inspection work on the period of time limits, specified in this User Manual as well as any information on the replacement or parts and equipment must be undertaken and/or complied with!

These activities may only be undertaken by qualified personnel.



When the machine has been operated the Kawasaki motor with its muffler is extremely hot. Take extra care to prevent burn injuries.



See "2.10 Safety regarding operation of machine" for further information.

2.16 Safety regarding transport



Always remove the tools before transport. The tools may fall of or damage the surface the machine is transported along.

2.16.1 Manual transport



When transporting the machine manually be observant about ramps and/or edges. Follow local traffic regulations for the work site to prevent accidents. Failure to comply with these regulations may cause injuries or damages.

2.16.2 Lifting



The machine must be secured according to local safety regulations before lifted. No person is allowed beneath a lifted machine! The machine must be lifted according to the instructions in "3.3Lifting"Observe the machines point of balance before lifting! Failure to comply with these regulations may cause injuries or damages. Only use straps approved for the weight and circumstances!

2.16.3 Inside vehicles



Secure the machine according to local transport safety regulations before transporting the machine inside a vehicle.

Lifting



The machine must be secured according to local safety regulations before lifted. No person is allowed beneath a lifted machine! The machine must be lifted according to the instructions in "3.3Lifting"Observe the machines point of balance before lifting! Failure to comply with these regulations may cause injuries or damages. Only use straps approved for the weight and circumstances!

2.16.4 Inside vehicles



Secure the machine according to local transport safety regulations before transporting the machine inside a vehicle.

3 TRANSPORT

3.1 Precautions



Read "2.16 Safety regarding transport" before attempting to transport the machine.

3.2 Manual transport

- Detach the tools according to the instructions in " 4.13 Changing tools ".
- Push the handle downwards to lift the gear barrel about 10 cm (4") from the ground.
- Push the machine in desired direction.

3.3 Lifting



- Before attempting to lift the machine, read "4.13 Changing tools"
- Detach the tools according to the instructions in "4.13 Changing tools".
- Fasten the straps used for lifting at the two handles as shown in "Figure 4".
- Lift the machine.



Figure 4: Lifting points

3.4 Inside vehicles

- Detach the tools according to the instruction in "4.13
- Changing tools".
- Secure the machine inside the vehicle.

3.5 Transporting propane tanks



When transporting cylinders to a propane dealer or to a job, make sure the cylinders are securely fastened and standing in an upright position with the service valve closed.

- A cylinder rattling around in the back of a vehicle and banging into other objects constitutes a hazard. Avoid dropping or banging cylinders against sharp objects.
- The propane cylinders are sturdily constructed but a series of hard jolts could cause damage.
- Please note that any cylinder that has been filled is always considered full, no matter how little propane gas remains in it. This is because even when all liquid has evaporated into vapor there is still some propane gas vapor left in the cylinder. Because this remaining fuel is flammable, an empty cylinder should be treated with the same careful procedures as one that is filled to the 80% level with liquid propane. The only time that a cylinder is considered empty is when it is new, before it has been filled with propane.
- When transporting a propane powered floor machine, the propane cylinder may be strapped onto the machine as long as the machine itself is firmly secured in the vehicle.
- Of course, spare cylinders should always be secured in an upright position.

4 OPERATION

4.1 Preparation



Before first start-up make sure that the oil level is correct by checking the oil gauge filler. Choose engine oil that follows API Service Classification: SF, SG, SH, SJ or SL. Choose viscosity according to temperature were the machine will be operated.

4.2 Precautions



Any machine, if it is not used according the regulations, may be hazardous for operating, setting-up and service personnel. The operating authority is responsible for compliance with the safety regulations during operation and maintenance, and for the use of safety devices supplied with the machine, as well as the provision of appropriate additional safety devices!

All propane connections and cables must be inspected for potential damages.

Never operate the machine without proper tools.

Eye and ear protection must be worn at all times.

Never operate the machine when it's not in its upright position.

Make sure there is no debris in the work area.

Check the work area for screws or other hard objects in the concrete. Don't use the machine if there are any foreign objects stuck into the surface. Such objects must be removed prior to operation of machine.

Read "2 Safety Regulations" before operating the machine.

4.3 Operation of machine

The machine head has three grinding heads that rotates in the opposite direction of the lower machine body. Each grinding head is equipped with a Scan-on tool plate where the tools used are attached. See "Figure 5".



Figure 5 Illustrates the rotation of the grinding heads versus the lower gear.

4.4 Control panel



Figure 6 Control panel of SCANMASKIN 32 WS PROPANE.

Item	Text	Description	Partnumber
1	Speed / Hour Meter	Total running hours / Head speed during operation	580468
2	Water Off/On	Engage the water flow	596001+596022+596020
3	EMERGENCY STOP	Emergency Stop	596003+596022+ 596020
4	Ignition key	Starts and Stops the engine	581094

Table 4.1 Description of the control panels.

4.5 Throttle



The throttle is designed to make sure that the operator always has enough engine speed while operating the machine. The lowest speed during operation is 750 rpm on the tachometer and this is to make sure the centrifugal clutch is fully engaged.

If the throttle is tampered with and the machine is operated below 750 rpm there is great risk that parts will get damaged inside the machine.

To engage the grinding speed the knob on the throttle is pushed outward and forward, there is 5 speeds available for operation / grinding and as soon as it's lowered below the first set speed it will fall back to idle speed. The maximum idle speed is 500 rpm on the tachometer.







Figure 9 Throttle, lowest speed

Figure 8 Full Throttle

Figure 7 Idle speed

4.6 Start up



See "4.1 Preparation" before starting the machine.

How to start the machine

- Check the engine oil.
- Make sure that proper grinding tools is attach to the machine "0
- Changing tools" check the grinding guide for best choice.

- Make sure that the propane tank and hoses for dust collector (if used) are connected to the machine and well secured.
- Make sure that the handle is in working position.
- Turn on the valve on the propane tank
- Turn on the dust collector if used.
- Make sure that the "EMERGENCY STOP" button (3) is in its upper position. If not, release it by turning it clock wise until it rises.
- Hold the gas throttle handle forward until in half way to the first position See Figure 8.
- Turn the start key clockwise until the start motor engage. Normally the engine will start within 3 seconds.
- Do not run the electric starter continuously for more than 6 seconds, otherwise the battery may discharge quickly. If the engine does not start right away, wait 15 seconds and try again.



- Note that when the engine starts the machine may start grinding because of the position of the throttle, back the throttle handle completely to reach idle speed.
- Let the machine run on idle speed for at least 3 minutes before increasing the speed of the engine. This will warm up the engine and allow the oil to reach all engine parts.
- To start grinding push the throttle handle forward. Make sure that the speed stays above 750 rpm this to make sure the centrifugal clutch is fully engaged.

4.7 Stop

How to stop the machine

- Move the throttle handle to its back position.
- Wait for the machine to come to a complete stop before letting go of the handle.
- Turn the ignition key to "OFF" to turn off the engine. / Or turn of the valve on the propane tank to let the engine run until it stops from lack of propane. (this is recommended if the work has come to an end) then turn the key to "OFF"
- Turn off the dust collector if used.
- Turn off the valve on the propane tank.

4.8 Emergency Stop

Only use the emergency stop button if there is an emergency.

4.9 Adjusting grinding speed

Move the "Gas throttle" handle (2) forward to increase the grinding speed and backward to decrease it. See "1.2Mechanical specifications" for the rotation speed range.

4.10 Safety off position

When working on the machine, either maintenance or tool change, the machine must be set to the "Safety off position". **See "2.14 Definition of the "safety off position"** for further information.

4.11 Grinding

Refer to "Grinding guide" for instructions and information about grinding.

4.12 Adjusting the grinding pressure

The machine has a system for changing the grinding pressure, this will give 60 kg (132 lbs.) of extra head pressure. Follow the procedure below:



Moving parts, take extra care while doing this procedure.

- 1. Unlock the sprint on the wheel frame
- 2. Pull the rear wheels backwards.



3. Lock the sprints in its inner position





4.13 Changing tools



Before changing tools, read "2.15 Safety regarding maintenance".

This illustration shows how to change the tools.

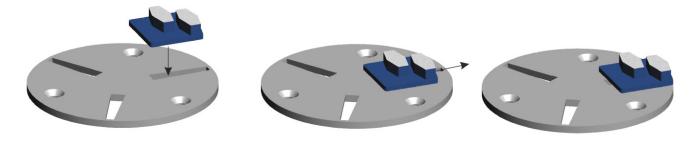


Figure 11 How to fit the diamond segments on the Scan-On plate.

- 1 Insert the segment at the widest part of the slot
- 2 Push the segment outwards
- 3 The segment is now fit on the Scan-On plate

To make sure that the tool is secured, use a small plastic hammer and slightly hit the tool outwards. In reverse this technique can be used to loosen tools that are stuck.

5 MAINTENANCE

5.1 Precautions

	Set the machine into the Safety off position before beginning any work on the machine.
_	See "2.10 Safety regarding operation of machine".
	Read "2.15 Safety regarding maintenance" before beginning any maintenance work.

All parts must have come to a complete stop before beginning any work!



When the machine is lying down on its back it might tilt to its upwards position. Take extra care to prevent this from happening to ensure that no injuries or damages occur.



When the machine has been operated the grinding tools, Scan-On plates and other parts on the gear barrel may be hot. Take extra care to prevent burn injuries.



When the machine has been operated the Kawasaki motor with its muffler is extremely hot. Take extra care to prevent burn injuries.

Adjustment, servicing and inspection work on the period of time limits, specified in this Manual as well as any information on the replacement or parts and equipment must be undertaken and/or complied with!

These activities may only be undertaken by qualified personnel.



5.2 Daily inspection prior to operation

Inspect the following items prior to operation

- Inspect the wheels for damage.
- Inspect the grinding heads. Dirt between the Scan-On plate and the grinding hub can impair the flexibility of the grinding head.
- If any screws appear loose, tighten them.
- Look over the machine for any other damage.

5.3 Maintenance and inspection list

 Daily Inspect the wheels Inspect the grinding heads Look for any other damage Check and add engine oil. Check for fuel and oil leakage. Check or clean air cleaner primary filter element.
Change engine oil.
Check bolts on the grinding heads
 Change engine oil. Change in-line fuel filter Check and clean oil cooler fins. Clean and regap spark plugs.
Change oil filter.Replace air cleaner primary element.Check air cleaner secondary element.
 Add grease for the main radial seal. This is done with a grease gun and the grease nipple is located at the lower end of the machine house. Remove the cover that protects the grease nipple and pump 3 pumps. Use regular grease type NLGI 2. Check the spring steel disc on each grinding head for cracks (560116) Replace if damaged.
 Clean combustion chamber. * Check and adjust valve clearance. * Clean and lap valve seating surface. *

Every 500 hours For more detailed information about the 500-hour service interwall check the Service Manual	 This service is recommended to be performed by Scanmaskin authorized workshop Replace air cleaner secondary element. Change the v-ring seals that is fitted on the grinding heads upper side. (570136) Change the rubber damper that is located on each grinding head (910093) Open up the machine house and inspect main radial seal (580312) No dust should be inside the machine house. Check the main belt for wear. Check tension on the belt Clean and lubricate the gears and gear ring inside the machine house. Only use approved grease from Scanmaskin. (570100) Note this grease is only for transmissions and not for seals. Before closing the machine house, make sure to lubricate the radial seal and the surface where the radial seal is working against with grease. Use regular grease type NLGI 2
Every 1000 hours For more detailed information about the 1000-hour service interwall check the Service Manual	 This service is recommended to be performed by Scanmaskin authorized workshop. Remove the grinding heads and change the three radial seals (580334) that protects the bearings. Clean and lubricate with grease before installing new ones. Use regular grease type NLGI 2 Change the main radial seal (580312) Before closing the machine house, make sure to lubricate the radial seal and the surface where the radial seal is working against with grease. Use regular grease type NLGI 2
Every 2000 hours For more detailed information about the 2000-hour service interwall check the Service Manual	This service is recommended to be performed by Scanmaskin authorized workshop. • Change the three gearwheels. (580352+580353)
Every 5000 hours For more detailed information about the 5000-hour service interwall check the Service Manual	 This service is recommended to be performed by Scanmaskin authorized workshop. Change all bearings inside the machine house. Change the main cog belt (580338) The maximum expected lifetime for the belt is 6 years.

5.4 Grinding head replacement / assembly

SCANMASKIN

Follow these steps to replace the grinding head plate

- Make sure the machine is in its "Safety off position"
- Tilt the machine backwards and secure it.
- Remove any tools used.
- Loosen the two screws holding the grinding head.
- Put the plate upside down and loosen the bolts that holds the spring steel discs
- Replace the grinding head or spring steel discs.
- It's recommended that new screws are used to fasten the replacement Grinding head plate.
- Tighten all screws by hand and make sure that they are secured.

5.5 Cleaning the machine

Before starting to clean the machine, make sure it is in its" Safety off position" The power must not be connected while cleaning the machine.

Do not use highly pressurized water to clean the machine.

Water and soap are recommended.

5.6 Trouble shooting

5.6.1 Common faults

Symptom	Cause	Correction	A1
Starter motor does not operate	Weak or dead batteryStart key is faultyFor additional Causes	Recharge or replace batteryCheck and replace key/switchSee engine manual or dealer	000
Engine turns over but does not start or run	 Fuel tank not connected Fuel tank empty No fire at spark plug Engine oil Pressure low Oil Pressure Switch faulty The emergency stop button is depressed For additional causes 	 Disconnect and reconnect tank Refill or replace tank Replace Spark plug Check and fill Oil to correct level Check and replace oil pressure switch Release the emergency stop button. See Engine manual or dealar 	000000
Engine runs with loss of power or excessive exhaust fumes	Restriction in Air cleanerIgnition System MisfirePoor compression or timing	 Service air cleaner Check or replace ignition coils See engine manual or dealer 	0 0 0
Engine running hot or over hea- ting	Intake screen or bonnet filter cloggedCooling Fins Clogged	Clean Screen and or bonnet filterSee engine manual for cleaning	0
High Oil consumption	Numerous causes	See engine manual or dealer	0
Engine Knocks and other engine noices	Numerous causes	See engine manual or dealer	0
The machine	The grinding speed is to high	2 Lower the speed	0
vibrates a lot	The tools are damaged	Inspect the toolsChange the tools if needed	0

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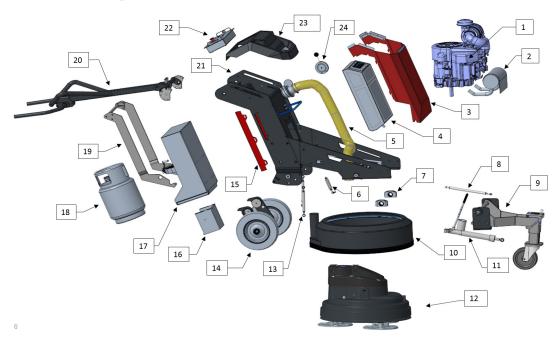
Table 5 1 Common faults

Abbreviation	Person	
0	Machine Operator	
S	Scanmaskin certified service technician	

Table 5 2 Access rights for different persons

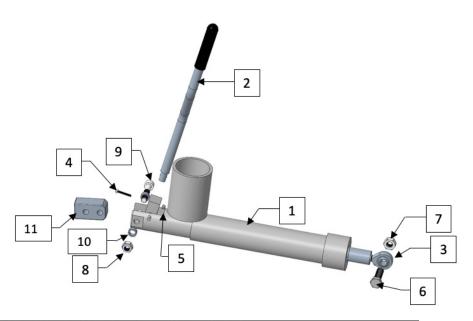
6 SPARE PARTS

6.1 General parts

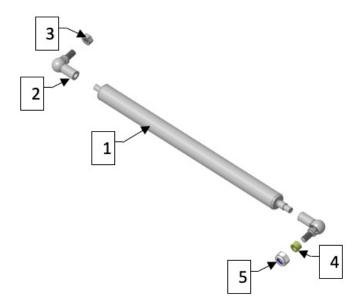


Pos	Art No	Denomination
1	581070	PROPANE ENGINE 852cc
2	581071	MUFFLER 852CC ENGINE
3	580440	RED COVER
4	580426	WATER TANK
5	see Dust hose	DUST HOSE
6	581095	BALANCE SPRING F. PROPANE
7	580343	CHASSIS / MACHINE HOUSE BLOCKS
8	580523	GAS DAMPER FRONT WHEEL
9	see Front wheel system	FRONT WHEEL SYSTEM
10	see Floating Cover	MACHINE HOUSE COVER
11	see actuato Hydralic	ACTUATOR HYDRAULIC
12	see Machine house	MACHINE HOUSE PROPANE
13	580539	GAS DAMPER FOR KICK STAND
14	see wheel system	WHEEL SYSTEM PROPANE
15	580443	REAR BARS
16	581092	BATTERY CONTAINER
17	580531	PROPANE TANK CONTAINER
18	581072	PROPANE TANK 201b
19	see Kick Stand	KICK STAND
20	580410	HANDLE COMPLETE
21	580400	CHASSIS BACK PART
22	580463	PANEL FOR PROPANE COMPLETE
23	580451	TOP COVER
24	581052	THROTTLE COMPLETE

6.2 Actuator, Hydraulic

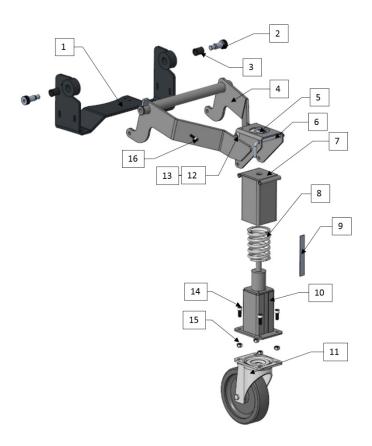


Pos	Qty	Drawing No	Denomination
1	1	580527	Actuator, Hydraulic
2	1	580525	Handle, hydraulic cylinder
3	1	580529	Joint head, hydraulic cylinder
4	1	910100	M4x25 Screw
5	1	910016	NYLOC M4
6	1	910153	M12 X 40 Screw
7	1	910053	NYLOC M12
8	1	910049	NYLOC M10
9	1	910102	10x50 Screw
10	2	580550	Actuator distance
11	1	580526	Bracket, hydraulic cylinder



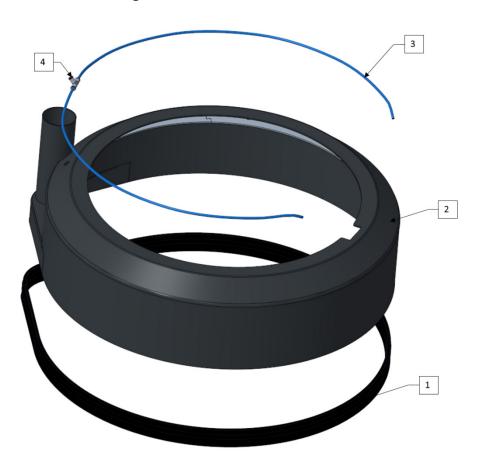
Pos	Qty	Drawing No	Denomination
1	1	580523	Gas dampers 250-600
2	1	580535	Gas damper, Angle link WG30
3	1	910132	Nut M8
4	1	580524	Gas spring damper, Bushing
5	1	910050	NYLOC M8

6.3 Front Wheel SM-32



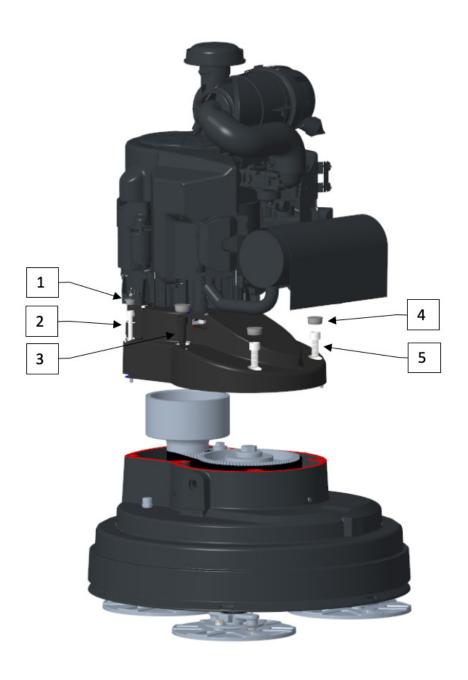
Pos	Qty	Art. No	Denomination
1	1	580432	Front Wheel attachment SM-32
2	2	580439	Front Wheel Bolt M16 SM-32
3	2	580449	Front Wheel Bussing SM-32
4	1	580431	Front Wheel Frame SM-32
5	1	910134	Front Wheel Pin TRSP 6x2 SM-32
6	1	580447	Front Wheel Adjustment pin SM-32
7	1	580445	Front Wheel, Outer tube SM-32
8	1	910135	Front Wheel, Spring SM-32
9	1	580448	Front Wheel Scale SM-32
10	1	580436	Front Wheel, Inner tube Sm-32
11	1	580446	Front Wheel Wheel assembly
12	1	910213	Front Wheel, Bolt M10x120
13	1	910046	Front Wheel, Nut M10 nylon
14	4	910087	Front Wheel Bolt M10x25
15	4	910049	Front Wheel, Nut M10 nylon
16	1	910036	Front Wheel Bolt M8x25

6.4 Floating Cover



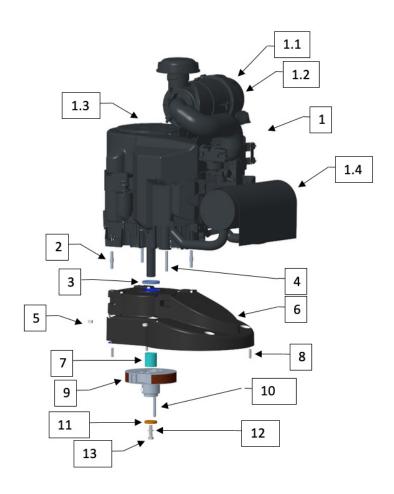
Pos	Qty	Art No	Denomination
1	1	580379	Brush SM-32
2	1	580345	Mashine House Floating cover SM-32
3	1	910626	Machine House Water hose set SM-32
4	1	570191	Machine House T-Connection Water hose SM-32

6.5 Engine mounting



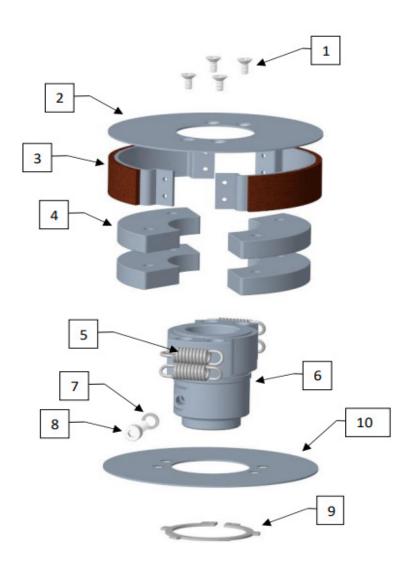
Pos	Qty	Art No	Denomination
1	2	580575	M10 Hole cap
2	2	910162	Bolt M10x 90mm FZB
3	2	910161	Bolt M16x 85mm FZB
4	4	580574	M16 Hole cap
5	8	910091	Bolt M16x40

6.6 Engine assembles



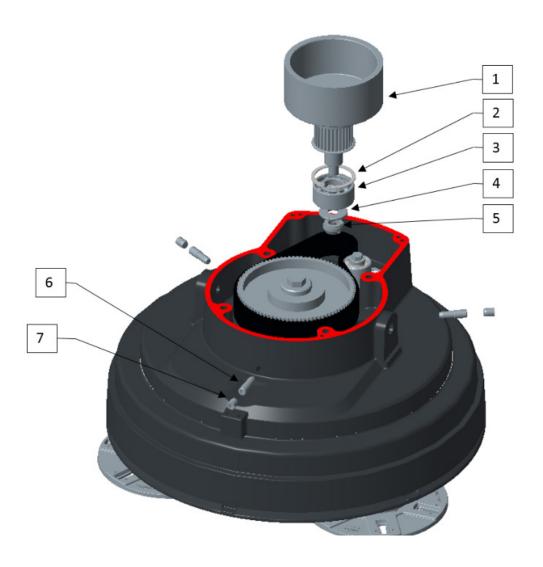
Pos	Qty	Art No	Denomination
1	1	581070	Propane Engine 852cc 26hp
1.1	1	581130	Primary Airfilter
1.2	1	581131	Secondary Airfilter
1.3	1	581135	Oil filter
1.4	1	581071	MUFFLER 852cc Engine
2	2	580363	Pin bolt govering
3	1	580395	Seal between motor and machine house
4	2	580383	Pin bolt UNC 3/8" x65mm
5	4	580393	Nut 3/8" UNC
6	1	580361	Machine house motor bracket propane
7	1	580357	Shaft Sleave 43mm
8	3	580382	Pin 8x30mm
9	1	see Central centrifugal clutch assembly	
10	1	580554	Parallel key 1/4 x 1/4" x63mm
11	1	580356	Washer center shaft propane engine
12	1	910178	Nord lock washer M12
13	1	581117	Bolt 7/16" x 38mm UNF

6.7 Central centrifugal clutch assembly



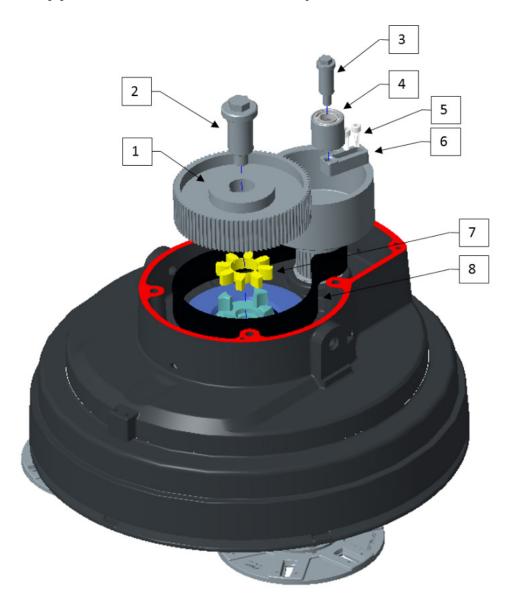
Pos	Qty	Art No	Denomination
1	4	581278	Screw M6x12
2	2	581277	Covers Centrifugal clutch
3	2	581275	Clutch pad
4	4	581274	Flyweight centrifugal clutch
5	4	581276	Spring centrifugal clutch
6	1	580355	Center pice 852cc engine Centrifugal clutch
7	1	910196	Washer Nord Lock 8,6X13,5X2,7
8	1	910201	BOLT M8X30
9	1	581280	Circlip 60
10	1	581279	Lid clutch propane

6.8 Upper Machine House Centrifugal clutch shaft



Pos	Qty	Art no	Denomination
1	1	580354	SHAFT WITH PULLEY SM-28/32 PROPANE
2	1	910313	CIRCLIP SGH 80
3	1	580369	ANGULAR BEARING 3307A-2RS1TN9/C3MT33
4	1	580366	WASHER 54x20.5x5
5	1	580335	NUT KMT 4 M20X1
6	1	580323	MACHINE HOUSE SET SXREW M16 INNER SM-32
7	1	580324	SET SCREW M16 OUTER

6.9 Upper Machine House Belt system



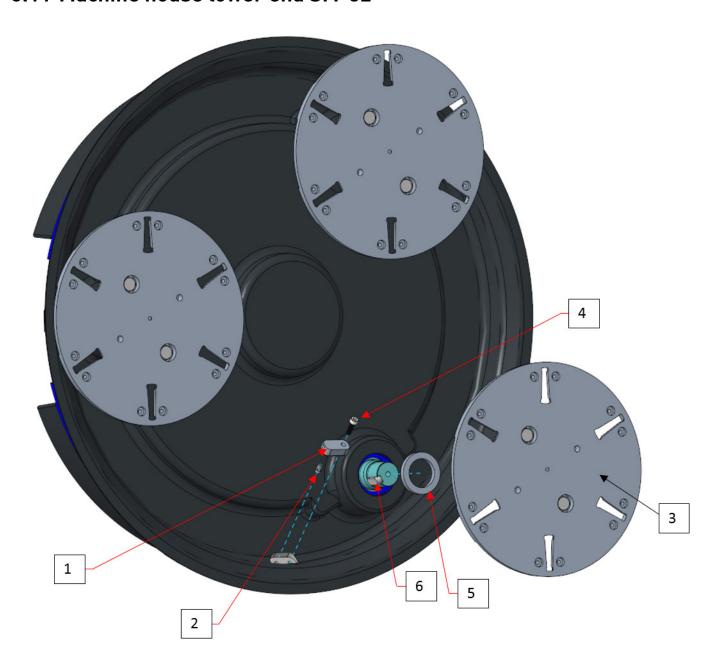
Pos	Qty	Art No	Denomination
1	1	580360	PULLEY 90-8M-50 PROPANE
2	1	580362	SHOULDER BOLT M24 PROPANE
3	1	580364	SHOULDER BOLT M14 PROPANE
4	1	580365	IDLER WHEEL PROPANE
5	2	910103	M10X30
6	1	580368	IDLER WHEEL BODY PROPANE
7	1	570053	RUBBER ELEMENT GP42A
8	1	581082	UPPER BELT PROPANE

6.10 Upper Machine House SM-32



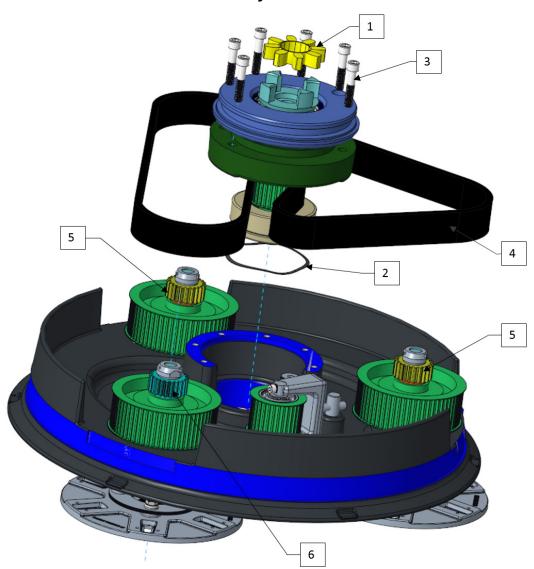
Pos	Qty	Art no	Denomination
1	1	580340	Machine house breath plug SM28/32
2	1	580310	Machine house cated upper SM-28/32
3	1	580311	Machine house cated outside cover SM-28/32
4	8	910196	Washer Nord lock 8.6x13x2.7
5	8	910036	Bolt M8x25
6	1	580312	Machine house radial seal 670x710x20 SM28/32

6.11 Machine house lower end SM-32



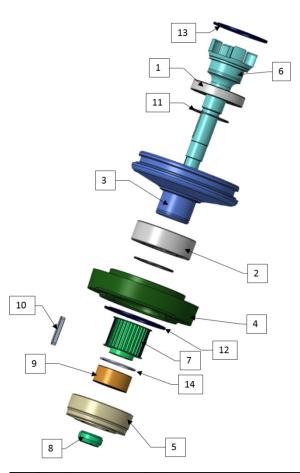
Pos	Qty	Art No	Denomination
1	1	580351	Machine House Grease Plug Cover SM-32
2	1	580372	Machine House Grease Plug SM-32
3	3	see Grinding Head SM-32	Grinding Head 280mm / 11" SM-32
4	1	910024	Bolt M6x20
5	3	580334	Machine House Radial Seal 38x55x7
6	1	910204	Parallel Key 10x8x25, Grinding Shaft SM-32

6.12 Machine House Belt System SM-32



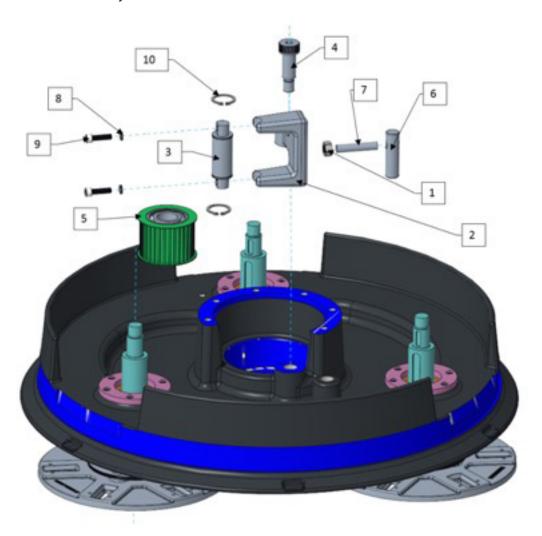
Pos	Qty	Art No	Denomination	
1	1	570053	Rubber Element GP42A	
2	1	580327	Machine House Vave Washer f Central Shaft SM-32	
3	6	910111	Bolt M12x60 MC6S	
4	1	580338	Cog Belt 2248 D8M-50 CXA	
5	2	see Shaft Assembly	Shaft Assembly with bushed gear wheel SM-32	
6	1	see Shaft assembly	Shaft Assembly with locked gear wheel SM-32	

6.13 Center Shaft Assembly



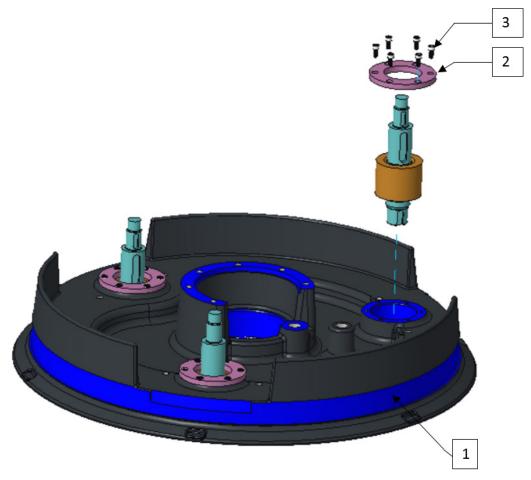
Pos	Qty	Art No	Denomination
1	1	570103	Bearing 6014 RS1 C3
2	1	570114	Bearing 3214
3	1	580322	Bearing Box Upper Central shaft SM-32
4	1	580325	Bearingbox Main Central shaft SM-32
5	1	580326	Bearingbox Lower Central shaft SM-32
6	1	580328	Center Shaft SM-32
7	1	580329	Central Pulley 30-8M-50 SM-32
8	1	580331	Nut M30x1,5 (KMT 6) Central Shaft SM-32
9	1	580339	Bearing BAH-0013 D Central Shaft SM-32
10	1	580374	Parallel Key 10x8x60, Central Shaft SM-32
11	2	910307	Circlip SGA 67 Central Shaft SM-32
12	1	910309	Circlip SGH 125 Central Shaft SM-32
13	1	910312	Circlip SGH 110 Central Shaft SM-32
14	1	910314	Circlip SGH 72 Central Shaft SM-32

Belt tensioner system



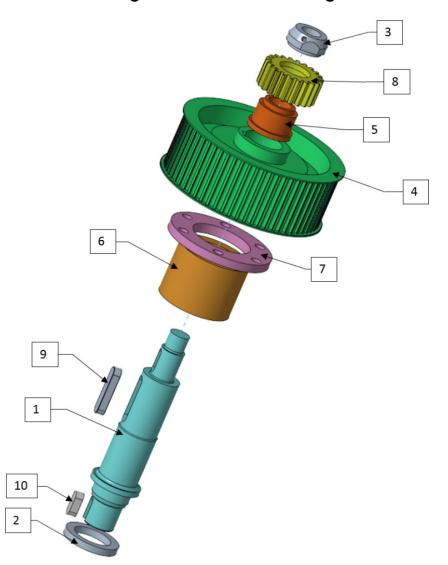
Pos	Qty	Art No	Denomination
1	1	910144	Nut M12 Standard
2	1	580315	Belt tensioner casted body SM-32
3	1	580316	Main Shaft for belt tensioner SM-32
4	1	580317	Bolt for belt tensioner SM-32
5	1	580318	Pulley for belt tensioner SM-32
6	1	580320	Secondary Shaft for belt tension SM-32
7	1	580321	M12 Set screw for belt tensioner
8	2	910196	Nord lock washer for M8 bolt
9	2	910201	Bolt M8x30
10	2	910304	Circlip SGA 30

6.14 Machine House Lower



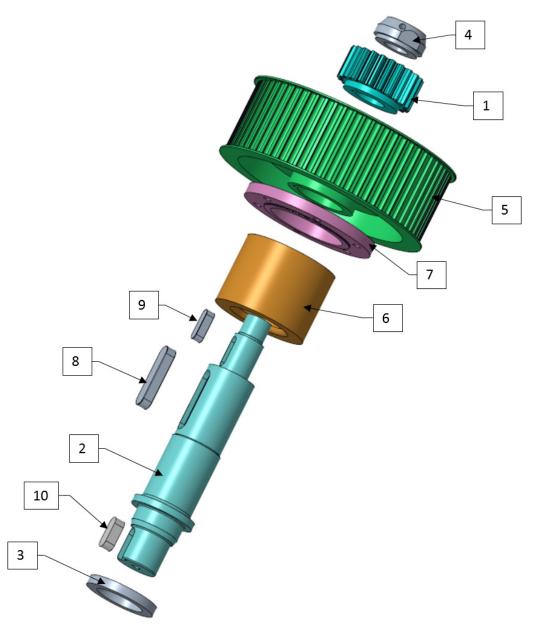
Pos	Qty	Art. No	Denomination
1	1	580314	Machine House Lower Casted SM-32
2	1	580350	Bearing Flange, Grinding shaft SM-32
3	18	910072	Bolt M6x14

6.15 Grinding Shaft with bushed gear wheel (2 per machine)



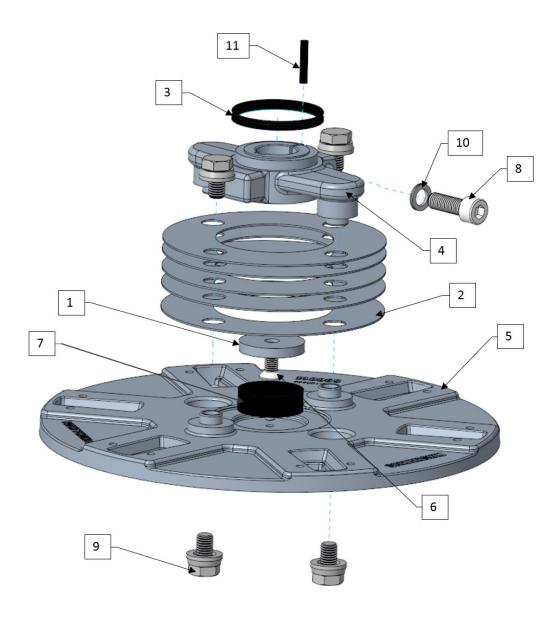
Pos	Qty	Art No	Denomination
1	1	580332	Grinding Shaft SM-32
2	1	580334	Radial Seal 38x55x7 SM-32
3	1	580335	Nut KMT 4 M20x1 Grinding Shaft SM-32
4	1	580336	Pulley 64-8M-50 Grinding Shaft SM-32
5	1	580337	Bushing for gear wheel, Grinding shaft SM-32
6	1	580342	Bearing BTH-1024 C, Grinding Shaft SM-32
7	1	580350	Bearing Flange, Grinding shaft SM-32
8	1	580353	Gear Wheel Bushed, Grinding Shaft SM-32
9	1	580373	Parallel Key 12x8x50, Grinding Shaft SM-32
10	1	910204	Parallel Key 10x8x25, Grinding Shaft SM-32

6.16 Grinding Shaft with locked gear wheel (1 per machine)



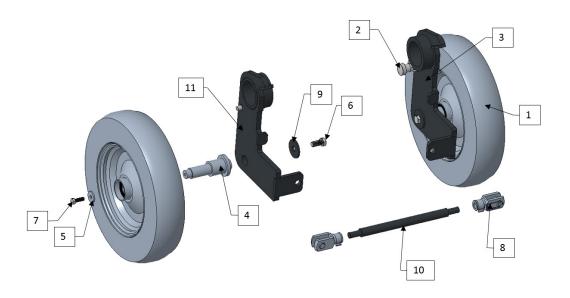
Pos	Qty	Art No	Denomination	
1	1	560515	Gear Wheel Locked SM-32	
2	1	580332	Grinding Shaft SM-32	
3	1	580334	Radial Seal 38x55x7 SM-32	
4	1	580335	Nut KMT 4 M20x1 Grinding Shaft SM-32	
5	1	580336	Pulley 64-8M-50 Grinding Shaft SM-32	
6	1	580342	Bearing BTH-1024 C, Grinding Shaft SM-32	
7	1	580350	Bearing Flange, Grinding shaft SM-32	
8	1	580373	Parallel Key 12x8x50, Grinding Shaft SM-32	
9	1	910203	Parallel Key 8x7x25, Grinding shaft SM-32	
10	1	910204	Parallel Key 10x8x25, Grinding Shaft SM-32	

6.17 Grinding Head SM-32



Pos	Qty	Art No	Denomination
1	1	560110	Washer 40x5
2	5	560116	Spring Steel disc 1mm Grinding Head SM-32
3	1	570136	Seal VA-50 Grinding Head SM-32
4	1	580160-32	Central Hub, Grinding Head SM-32
5	1	590014	Tool Head 280mm / 11" SM32
6	1	910030	Bolt M8x16
7	1	910093	Rubber Damper
8	1	910103	Bolt M10x30
9	4	910109	Bolt Machine head M10
10	1	910197	Nord Lock for M10 bolt
11	1	580162	Seal 5mm Grinding Head Central Hub

6.18 Wheel System SM-32 Propane



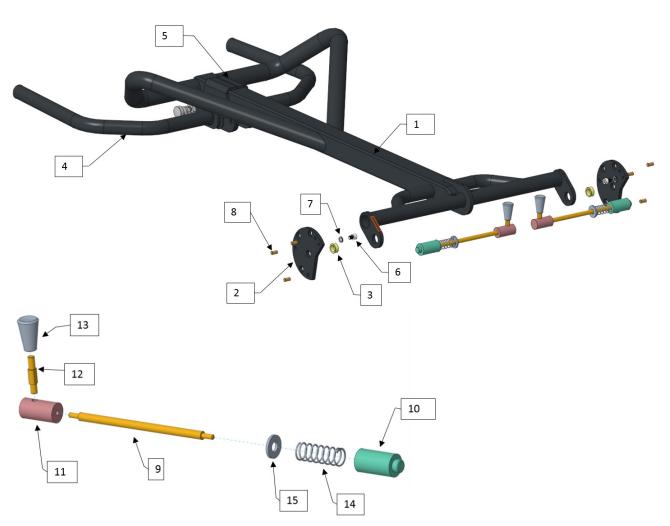
Pos	Qty	Art No	Denomination
1	2	580513	Wheel SM-32 Standard / Propane
2	2	580488	Adjustment Plunger Wheels SM-32
3	1	580489	Wheel frame Right SM-32 Standard
4	2	580510	Wheel shaft SM-32 Standard
5	2	560110	Washer 40x5
6	2	910052	M12x25 M6S
7	2	910030	M8x16
8	2	910136	Joint M14
9	2	910179	Washer 44x4
10	1	580480_2	Bar
11	1	580489_10	Wheel frame Left SM-32 Standard

6.19 Kick Stand SM-32 WS PROPANE



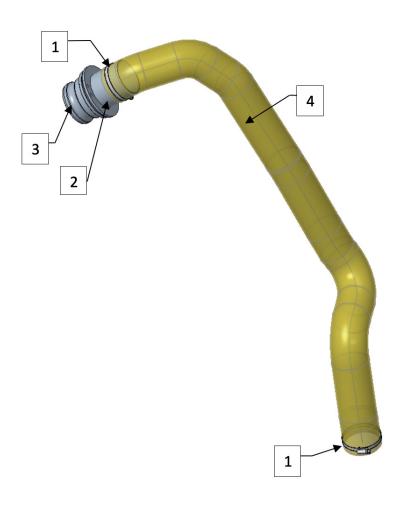
Pos	Qty	Art No	Denomination
1	1	580516	Kick Stand Right Arm SM-32
2	1	580517	Kick Stand Left Arm SM-32
3	1	580518	Kick Stand Bar SM-32
4	6	910069	Bolt M10x18 MC6S

6.20 Handle SM-32 WS PROPANE



Pos	Qty	Art No	Denomination	
1	1	580411	Handle Frame SM-32	
2	2	580412	Attachment Plat for Handle SM-32	
3	2	580413	Bushing for M16 bolt Handle SM-32	
4	1	580546	Hip Support SM-32	
5	1	580549	Center mekanism, Hip Support SM-32	
6	2	910035	M8x10 MC6S	
7	2	910196	Nord Lock Washer for M8	
8	6	580419	Pins 8x14mm	
9	2	580492	Handle locking mekanism, Bar SM-32	
10	2	580493	Handle locking mekanism, Lockin Pin SM-32	
11	2	580494	Handle locking mekanism, Center hub Sm-32	
12	2	580495	Handle locking mekanism, M8 Pin bolt SM-32	
13	2	580496	Handle locking mekanism, Knob SM ₃ 32	
14	2	580497	Handle locking mekanism, Spring SM-32	
15	2	580528	Handle locking mekanism, Washer 28x3 SM-32	

6.21 Chassis hose system SM-32 WS PROPANE



Pos	Qty	Drawing No	Denomination
1	2	570173	Clamp 76mm
2	1	580474	Inside flange camlock
3	1	780060	Camlock 3"
4	1	570171	Inside hoose WS Propane

7 Warranty

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This product from Scanmaskin Sweden AB comes with a 24-month warranty or 1500 hours, whichever comes first.

Scanmaskin Sweden AB warrants to the original end user, each new machine, new accessories and genuine replacement parts against defects in material and workmanship under normal use and service. Warranty coverage shall begin on the date of purchase by the original end user (as evidenced by your invoice from the factory or Authorized Dealer) or six (6) months from the date the machine was shipped from the factory, whichever comes first. The warranty registration form must be completed within 30 days of purchase visit www.scanmaskin.com/register-your-product/ to fill in the form.

Our obligation under this warranty is limited to repair or replacement of the defective item at our factory or by an Authorized Service Center according to the following conditions:

- 1. The warranty only applies to persons that have legal right to the equipment during the warranty period.
- 2. The manufacturer's undertaking is limited to the repair of defective parts or the replacement of these according to the manufacturer's assessment. Costs and risks for transport as well as dismantling and reinstallation of the product / products and other direct or indirect costs, associated with the repair in question, are not covered by this warranty.
- 3. Periodic inspections, adjustments, maintenance work and changes are not covered by the warranty.
- 4. Scanmaskin is not liable for any damages to grinding discs, drive belts or other similar equipment.
- 5. The machine must be equipped with grinding tools approved by Scanmaskin Sweden AB
- 6. The warranty only applies to material and design deficiencies and does not apply in the following cases:
 - a. Damage caused through accidents, carelessness, changes, use of spare parts or grinding tools that are not original components, or incorrect use and installation.
 - b. Damage caused by lightning, water, fire, vandalism, incorrect mains voltage, incorrect ventilation or other causes that lie outside of the manufacturer's control.
- 7. Scanmaskin reserves the right to modify the design or make improvements without obligation to change previously manufactured products.
- 8. Costs for repairs, carried out by an unauthorised workshop, will not be reimbursed by Scanmaskin. If such repairs damage this product these are not cover by the warranty agreement.

8 EC Declaration

Declaration of conformity CE

<u>Manufacturer</u> Scanmaskin Sweden AB

Address Heljesvägen 10

437 36Lindome

Sweden

<u>Product</u> Grinding machine

Name Scanmaskin 32 World Series

Propane

Serialnumber _____

Standards used including number

Machine directives 2006/42/EG EMC 2014/30/EU LVD 2014/35/EU

Harmonized standards

Safety of machinery EN ISO 12100:2010 Safety of machinery EN ISO 60204-1 Safe Torque Off EN 61800-5-2

<u>Place of issue</u> Lindome / Gothenburg / Sweden

Name of authorized representative Per-Anders Bardh

Position CEO

Declaration

We declare that as the authorized representative, the above information in relation to the supply / manufacture of this product is in conformity with the stated standards and other related documents following the provisions of EEC directives.

Signature of authorized representative:

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10 Contact information

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