



TCG500 FLOOR GRINDER



OPERATION & MAINTENANCE



OPERATION

Foreword

Thank you for your purchase of the TRELAWNY Professional use TCG500 Floor Grinder.

This manual contains the necessary maintenance information for you to ensure proper operation and care for this machine.

See also the manual that is supplied by the engine manufacturer.

It is essential for you to read through these manuals thoroughly.

In the unlikely event that you experience problems with your TCG500, please do not hesitate to contact your local Trelawny dealer or agent. We always welcome feedback and comments from our valued customers.

General Information

Before operating, performing maintenance or repairing the TCG500 FLOOR GRINDER this manual must be read and understood by the operator, if in any doubt, ask your supervisor before using this equipment.

Local safety regulations must be followed at all times. Failure to follow these instructions could result in damage to the TCG500 and/or personal injury.

Trelawny SPT Limited disclaims all responsibility for damage to persons or objects arising as a consequence of incorrect handling of the machine, failure to inspect the machine for damage or other faults that may influence the operation prior to starting work, or failure to follow the safety regulations listed or applicable to the job site.

This machine is primarily designed for the smoothing of concrete, marble and terrazzo surfaces. It can be used both indoors and out. This machine must not be used in a fixture.

Electric models are more suitable for indoor use because of the toxic exhaust gases that are produced by petrol or diesel engines.

Safety

WEAR SAFETY BOOTS, FACE MASK, SHATTERPROOF GLASSES, HELMET, GLOVES and any other personal protective equipment required for the working conditions. Avoid loose clothing; this may become trapped in moving parts and cause serious injury.

TO AVOID NUISANCE DUST, connect an industrial vacuum cleaner (minimum 3000watts or equivalent) to the 50mm (2") vacuum port situated at the rear of the machine.

ENSURE THAT THE WORK PLACE IS WELL VENTILATED. Avoid operating engine-powered machines in an enclosed area, since engine exhaust gases are poisonous.

BE VERY CAREFUL WITH HOT COMPONENTS. The exhaust and other parts of the engine are hot during operation and can remain hot for some time after shutdown.

DO NOT REFUEL THE ENGINE WHILE THE ENGINE IS HOT OR RUNNING, there is a very real danger from explosion – always refuel when the engine is cold, and in the open air.

During transportation fasten fuel cap tightly and close fuel cock.

DO NOT OPERATE ELECTRIC VERSIONS IN WET CONDITIONS.

CAUTION THIS MACHINE IS HEAVY. It weighs between (114kg/251lbs) and (144kg /317 lbs) dependent on power unit.

Do not lift this machine manually.

Risk of Hand-arm Vibration injury

These tools may cause Hand-arm Vibration Syndrome injury if their use is not adequately managed.

We advise you to carry out a risk assessment and to implement measures such as; limiting exposure time [i.e. actual trigger time, not total time at work], job rotation, ensuring the tools are used correctly, ensuring the tools are maintained according to our recommendations, and ensuring

that the operators wear personal protective equipment [PPE] particularly gloves and clothing to keep them warm and dry.

Employers should consider setting up a programme of health surveillance to establish a benchmark for each operator and to detect early symptoms of vibration injury.

We are not aware of any PPE that provides protection against vibration injury by attenuating vibration emissions.

See 'Specifications' section for vibration emission data.

Further advice is available from our Technical Department.

We strongly advise you to visit the Health & Safety Executive website <http://www.hse.gov.uk/vibration> This site provides excellent advice and information on HAV and currently, includes a Hand-arm Vibration Exposure Calculator that is easy to use to work out the daily vibration exposure for each of your operators.

Media Types & Applications

Grinding Blocks

All can be used wet or dry

Coarse grinding blocks

These are fitted as standard on machines fitted with the grinding block option. These are designed for the rapid removal of material. They produce a surface finish suitable for directly laying floor coverings or for two part epoxy paint coatings and for the first grind of terrazzo floor surfaces.

Medium grinding blocks

These are less aggressive than the coarse blocks, they should provide a surface finish suitable for painting or used as the next stage to the coarse grinding blocks, when achieving a polished surface on terrazzo tiles or other marble type surfaces.

Fine grinding blocks

These are the least aggressive of all the grinding media. These are generally only used for final finishing to provide a surface suitable for final polishing.

OPERATION

In addition, scarifying blocks and wire brushes are available which can be fitted in place of the grinding blocks.

Diamond Disc

The machine is fitted with a 20 segment diamond disc for concrete as standard (see below for specification).

All discs can be used wet or dry.

Grinding disc 10 segment

(Soft bonded diamond (Concrete))

Economy disc.

For medium to hard material, granite, cured concrete or terrazzo.

Grinding disc 20 segment

(Soft bonded diamond (Concrete))

Premium disc.

For medium to hard material, granite, cured concrete or terrazzo.

Grinding disc 10 segment

(Hard bonded diamond (Asphalt))

Economy disc.

For softer or abrasive materials - green (less than 48hrs old) or medium strength concrete, asphalt or adhesives.

Grinding disc 20 segment

(Hard bonded diamond (Asphalt))

Premium disc.

For softer or abrasive materials - green (less than 48hrs old) or medium strength concrete, asphalt or adhesives.

Pre-Start Check

ALL VERSIONS

Check all bolts and screws for tightness. Ensure that all fittings are secure.

Check the drive belts for correct tightness. There should normally be approximately 13mm (1/2") of free play when the belt is depressed in the middle position between the two pulleys.

To check and set the belt tension, refer to the *Belt installation & Adjustment* section.

Engine versions check the engine oil level (the engine will not start if the oil level is low.) If low, refill with the relevant motor oil recommended in the engine manufacturers operating and maintenance manual.

The TCG500 is supplied with a specially commissioned electric motors and starter switch assembly.

Each unit is fully tested and the overload relays have been calibrated and set according to the manufactures specifications. In the event of malfunction on a new machine, the owner should first check that the power supply on site is suitable and adequate.

All cables should be fully uncoiled and never left wrapped around cable reels or tied in loops. The starter box is fitted with a safety feature to protect the motor and relays from damage. The starter boxes are preset and under no circumstances should they be tampered with, stripped down or adjusted, otherwise it will invalidate the warranty.

The starter control box lid must be unscrewed to gain access to the Black or Blue reset button, ensure that the supply is disconnected prior to opening the lid.

110v Motor

The motor requires the minimum of a 32amp, 110v power supply. Always use the shortest possible length of extension cable. To avoid voltage drop the cable must be a minimum core wire size of 2.5mm² but preferably 4.0mm² cross-section. The maximum length of cable can then be 15 metres and 30 meters respectively.

Use a centre tap transformer with a continuous rated output of at least 3.0KVA. In practice this means that a 5.0KVA transformer must be used. Manufacturers have different methods of rating their equipment.

All transformers and cables should be fitted with 32amp plugs and sockets.

The 240v supply to the 110v transformers ideally should be rated to at least 20amp if supply problems are to be avoided, but taking care not to overload, a 13amp supply could be used.

240v and 415v Motors

Take particular care when using 240v or 415v Machines, ensure that the electrical supply is earthed and that breakers and fuses are correct for the loading.

The 240v motor requires the minimum of a 13amp, 220v power supply.

The 415v motor requires the minimum of a 10amp, 380v power supply. Always use the shortest possible length of extension cable. To avoid voltage drop the cable must have a minimum core wire size of 2.5mm² cross-section area. Maximum length of cable 30 meters.

Starting

Machines fitted with petrol engines and manual lift mechanism.

The cutter heads must be raised off the floor surface before starting the Honda engine from cold.

ENGINE VERSIONS
CAUTION
Beware of **POISONOUS FUMES**.
Start and operate only in well-ventilated areas.

The engine is fitted with an automatic choke, this only operates with the throttle lever in the fast position, on starting this will cause the centrifugal clutch to engage and the grinding discs to rotate.

Using the handle situated on the front of the machine "Jack" up the grinding blocks clear of the floor surface, this will require approximately 40 turns of the handle until the cutters are fully raised up and the handle comes to a stop.

Once the engine is hot, subsequent starting can be carried without the safety lift mechanism being used; **starting must only be carried out with the engine throttle lever in the idle/tick-over position.**

Ensure that the rear axle is in the forward transport position.

Be careful with
HOT COMPONENTS.
The exhaust and other engine parts are hot during and for some time after operation. Do not touch them.

Maintenance

Check that there is sufficient fuel in the fuel tank. (See manufactures hand book for type)

Check that the engine oil level is correct. (See pre-start check)

Ensure that the machine is started on a level surface.

Open the engine fuel tap.

For cold engine starting, the 5.5hp and 11hp engines have an automatic choke, apply full throttle to operate.

Set the engine switch to the "on" position.

Check that the machine has been "Jacked up" (Honda engine versions only)

Pull the 'hold to run' lever against the handle bar
Pull the recoil starter cord handle.

IMPORTANT

Do not pull the recoil starter cord to the end of its travel as it may cause damage to the engine or injury to the operator.

When the engine starts, recoil the cord slowly.

Do not allow the cord to snap back to its start position.

After the engine starts, move the throttle lever towards the idle/tick-over position until the engine runs smoothly.

After a minute or two reduce to a quarter open throttle setting and warm up the engine for a further 2~3 minutes before setting to tick over.

The warm up procedure is particularly important during cold weather.

Machines fitted with an electric motor

IMPORTANT:

Pull back on the handle bars to **raise the cutters off the floor**, pull the 'hold to run' lever against the handle bar and press the green start button on the switch box, then gently lower the cutters onto the surface being worked.

: EMERGENCY SHUTDOWN :
Release the "Hold to run lever" on the handle bar and/or switch off the ignition switch on engine versions.

Machine Operation

Remove all of the weights, if fitted, from the front of the machine .

Take care when removing the weights they weigh approximately 18kg each.

(Please refer to manual handling recommendations when lifting.)

Connect a suitable commercial vacuum which has been designed for the collection of concrete dust and possibly toxic paint particles, Trelawny can supply special HEPA filtered vacuums suitable for these applications.

There is a choice of two axle positions dependent on the finish required; you can swing the axle from its forward position (also the Transport position), to the rear position for a more aggressive action. Always start with the axle in the forward position.

On engine-powered machines, ensure that the engine is running at **tick over** (Slow run position).

Whilst holding the 'hold to run' lever against the handle bar, turn the lift mechanism handle anti-clockwise to lower the grinding blocks onto the floor surface. Continue to turn the handle anti-clockwise until the handle engages with an indent, holding the handle in place pointing towards the rear.

Grasp the handle bar firmly, and continue to hold the "hold to run" lever against the handle bar.

Slowly increase the engine speed and the centrifugal clutch will automatically engage the grinding discs at around the half throttle open position. Use full throttle when using additional weights allowed.

(Maximum of two weights on the 5.5hp machines, these are available as optional extras)

(Maximum of three weights on 11hp machines)

On electric-powered machines, continue to hold the "hold to run" lever against the handle bar.

The machine may oscillate slightly during use, which is normal. Move the machine slowly backwards and forwards, slightly swinging the machine right and left to cover the centre area between the grinding discs; this will ensure that a uniform finish is achieved. Complete a small area noting the performance; on engine versions reduce the throttle to tick over. Then on both engine and electric motor versions release the 'hold to run' lever to stop the machine, inspect the finish produced. Move the axle to the rear position or change the grade of grinding blocks or diamond discs or add a Trelawny weight if required on petrol engine machines and recheck performance and surface finish.

Please note: - No additional weights are fitted on 110v & 240v electric machines due to power limitations and a maximum of one weight on the 400v 3ph 5.5kw machine.

Shut Down

On electric powered machines, simply release the "hold to run" lever. On engine powered machines, move the engine's throttle lever to the slow speed position. (This avoids the engine becoming washed internally by neat fuel if switched off from high engine revolutions.)

Release the 'hold to run' lever and switch off the engine's ignition switch. Close the engine fuel cock.

On both electric and engine powered machines, swing the axle to the forward position for transportation.

After the engine or motor has completely cooled, clean off any concrete dust from external components and remove any heavy build up of concrete dust from inside the front dust skirt, (See start of "**Grinding Block Replacement**" section for safe method of gaining access to inside of front dust skirt).

Take care when using hoses or pressure washers and clean within the dust skirt area only.

Do not to allow water to be directed at or splashed onto the engine, electric motor or any electrical components. Once clean and dry, cover the machine to protect it and store the grinder in a dry place.

Maintenance

Belt Installation & Adjustment

Removal

If fitted, remove all of the weights from the front of the machine.

Take care when removing the weights they weigh approximately 18kg each.

(Please refer to manual handling recommendations when lifting.)

Remove the top cover by unscrewing the two 10mm wing bolts either side of the chassis. Loosen the engine/motor mounting plate bolts to allow the engine to move along the chassis engine/motor mounting bolt slots. Slide both the V-belts off the gearbox drive pulley and then remove them from the engine/motor pulley.

Installation

Slide both the new belts onto the engine/motor pulley first, locating them in the grooves. Then slide the lower belt over the gearbox drive pulley and into the lower groove on the pulley, followed by the upper belt into the upper groove. Adjust the engine/motor position using the adjusting bolt and then tighten the engine/motor mounting plate bolts, ensure the belt tension is correct. **(Do not over tighten)**

Tighten all engine bolts, refit the top cover and tighten the wing bolts and replace the weights as required.

IMPORTANT

Normal slack should be approximately 13mm (1/2") when the belts are depressed in the middle position between the engine pulley and gearbox pulley.

LUBRICATION

Remove the blanking plug (31), covering the inspection hole on top of the gearbox. Using an implement, apply a liberal amount of a copper based high melting point grease to the teeth on the visible large gears.

Using a grease gun, apply a high melting point bearing grease to the grease nipples situated on the six bearing housings on the gearbox. Lubricate once every three months.

Grinding Block Replacement

Switch off the engine powered versions and allow the engine to **cool completely**, disconnect electric motor powered versions from its power supply.

IMPORTANT:

Ensure that the axle is swung into the forward "transport/grinding position."

Place the machine on a flat and level surface.

Remove all weights, if fitted, from the front of the machine.

Raise the front skirt by loosening the two 10mm guard retaining wing bolts on either side of the machine and also the 8mm hexagon headed bolt at the front of the machine, slide the guard up to the top of the slots and tighten the bolts temporarily.

Tilt the machine backwards to rest on its handle bar.

On 11 hp engine powered machines, place one of the supplied weights onto the two locating pins on the arms of the handle.

On electric and 5.5hp powered machines, place a heavy object (10kg sand bag, etc.) across the upper part of the handle bar or rope down for additional security.

Take note how the grinding blocks and wedges have been assembled, using a suitable wooden drift, knock out the grinding block, not the wooden wedge.

Dispose of the used grinding blocks according to local legislation.

Fit each new grinding block squarely into the grinding plate location corner at the outer flat face of the grinding disc.

Secure with a new wooden wedge, between the block and the inner face of the grinding block, knock the wedge into position using a suitable drift.

Note:

Do not use a mix of old and new grinding blocks, this will cause rapid wear of the new blocks and could cause the machine to become uncontrollable, unstable and dangerous in use.

Re-adjust the lower guard and tighten the fixing bolt and wing bolts.

Fitting Diamond Discs

Switch off engine powered versions and allow the engine to **cool completely**, disconnect electric motor powered versions from its power supply.

Place the machine on a flat and level surface.

Remove all weights from the front of the machine if fitted.

IMPORTANT:

Ensure that the axle is swung into the forward "transport/grinding position."

Tilt the machine backwards to rest on its handle bar.

On engine powered machines, place one of the weights, if fitted, locating the holes in the weight with the two pins on the arms of the handle.

On electric powered machines, place a heavy object (10kg sand bag, etc.) across the upper part of the handle bar or rope down for additional security.

Raise the grinding block guard by loosening the two 10mm guard retaining wing bolts on either side of the machine and also the 8mm bolt at the front of the machine, slide the guard up to the top of the slots and tighten the bolts temporarily.

Remove any build up of material from around the grinding discs retaining nuts and bolts.

Remove all the lock nuts situated at the bottom the grinding discs from the corresponding M10 cap head bolts.

Maintenance

Unscrew all of the M10 bolt from above the grinding disc drive shaft hubs until the grinding disc is released, support the grinding disc as you do so, there is no need to remove the bolts from the flexible coupling.

Store the grinding head assemblies for future use, and check as per 3-month machine storage when refitting.

Offer the Diamond Disc adapter up to the flexible coupling with the recess in the centre of the hub towards the coupling.

Screw in one of the M10 bolts, in to a threaded hole in the Diamond Disc adapter.

Repeat with the other two bolts.

Fully tighten and holding the cap head bolt stationary using a suitable key, screw a M10 Nyloc nut onto the bolt and tighten to torque of 55nm (40lbs/ft) against the Diamond Disc adapter.

Repeat with the other two bolts.
Repeat with second grinding assembly.

Secure the Diamond Discs to the adapters using the supplied M12 countersunk socket head screws. Reposition the front dust skirt and retighten the 10mm wing bolts and 8mm hexagon headed bolt.

Machine Storage

Long period storage: over 3months

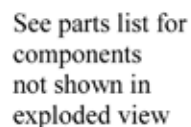
Clean outside of machine, inspect the grinding blocks for wear; replace any worn parts as required.

Remove any build up of material from inside of grinding disc area following step in start of "**Grinding Block Replacement**" Section .

Cover the machine to protect it: Store the machine in a dry place.

Be sure to check security of wooden wedges after any lay up period.

FAULT	CAUSE	ACTION
Engine stops suddenly or does not run correctly	No fuel in the fuel tank.	Refuel fuel tank. (See safety section.)
	Spark plug faulty.	Replace spark plug.
	Fuel blockage.	Check fuel line and strainer.
	Air filter partially blocked.	Replace air cleaner element.
	Low oil level. (Engine cut off switch is fitted)	Rectify leaks and replenish oil.
Motor stops suddenly or does not run correctly	Loose wiring, incorrect voltage, or blown fuse.	Check connections and power supply or replace fuse.
Engine/motor runs but the grinding heads do not move.	Drive Belts slack or failed.	Replace Belt or adjust tension.
	Centrifugal clutch faulty on engine versions	Replace clutch assembly
	No grinding blocks fitted	Check grinding discs for any damage, replace if necessary. Fit new grinding blocks
Grinder is slow or erratic	Loose or a failed drive belts.	Adjust drive belt, or replace.
	Surface too rough.	Use Trelawny TFP200/250 surface Planer to produce a smoother surface or to remove bulk of material prior to grinding. Change grinding blocks to a coarser grade.
Engine will not start	No fuel in the fuel tank	Refuel fuel tank, see safety precautions.
	Low oil level	Rectify oil leaks and replenish oil.
	Water in fuel	Drain fuel tank, float chamber, and refuel.
	Incorrect fuel in tank, i.e. diesel in petrol tank	Clean out fuel tank, all fuel lines and carburettor float chamber. Refuel with correct fuel.
	Spark plug faulty	Replace spark plug
Motor will not start	Power supply is not switched on, blown fuse, voltage incorrect, loose wiring, or faulty motor or starter box components.	Confirm that the power supply is switched on. Rectify loose wiring, replace blown fuse or replace motor or starter box.
Use above information in conjunction with the Honda Operation and Maintenance Manual.		
If problem has not been cured by any of the above actions, contact your local Trelawny SPT dealership for assistance.		



PARTS LIST

Item	Part No	Description	Item	Part No	Description
1	350.7520A	Lift Plate (Petrol Engine only)	29		<i>Not Assigned</i>
	350.9170	Blanking Plate (Electric Motor only)	30	350.9155	Engine Adjuster Bolt
2	350.7530	Lift Foot (Petrol Engine only)	31	841.4070	30mm Top Cover Blanking Plug
3	813.1060	R-Clip (Petrol Engine only)	32	841.4080	Inspection hole & vacuum takeoff blanking Plug
4	350.7540	Lift Shaft (Petrol Engine only)	33-34		<i>Not Assigned</i>
5	350.7550	Lift Handle (Petrol Engine only)	35	712.3022	Return Spring (Petrol Engine only)
6	350.9105	Front Dust Skirt	36	816.3250	6mm Ball Bearing (Petrol Engine only)
7	831.1030	M8 x 30 Hexagon Bolt	37	824.0024	Thin Nut M24 x 2.0 (Drive Shaft - Small Gear)
8	719.3250	Vacuum Hose	38	824.2400	Nyloc Nut M24 2.0 (Driven Shaft - Large Gear)
9	350.9111	Axle Mounting Bracket	39		<i>Not Assigned</i>
10	812.1001	M20 Plain Washer	40	822.2000	Rubber Grip
11	814.1020	20mm External Circlip	41	350.9186	Knob (Petrol Engine only)
12	350.9113	Axle Mounting Nut	42	350.9180	Throttle Lever (Petrol Engine only)
13	350.00CDL	L/H Grinding Block Mounting Plate	43	350.9182	Friction Washer (Petrol Engine only)
14	350.00CDR	R/H Grinding Block Mounting Plate	44	345.9805	Safety Switch Assembly
15	350.9115	20mm Bearing	45	491.0200	Anti-Vibration Mounting Kit (including nyloc nuts & washers)
16	350.9116	25mm Bearing	46	857.1010	Wing Screws M10 x 22
17	350.9121	Wheel			
18	350.9128A	Drive Gear 25 Teeth	47-49		<i>Not Assigned</i>
19	350.9129A	Driven Gear 114 Teeth	50	350.5502	Wedge
20	350.9135	Weight (Petrol engines only)	51	350.5509	Abrasive Block (Coarse)
21	350.9136	Rubber Pad (Petrol Engine only)		350.5505	Abrasive Block (Fine)
22	350.9137	Drive Belt 5.5hp Engine & all electric motors		350.5507	Abrasive Block (Medium)
	350.9138	Drive Belt 11hp only		350.5519	Wire brush
23	350.9139	Driven Shaft Spacer		350.5525	Scarifying Block
	350.9139A	Slotted Spacer (reversed recess belt pulley only)	52	350.9146	Flexible Coupling
24	350.9140	Drive Shaft Spacer	53	806.1060	M10 x 60 Caphead Bolts
25	350.9150	Driven Shaft Key	54	834.0500	1/2" UNF Nyloc Nut
26	350.9153	Drive Shaft Key	55	350.9127	Driven Pulley (Requires 350.9127A also)
27		<i>Not Assigned</i>		350.9127A	Driven Pulley Bush
			56	350.9126	Clutch (Petrol engines)
28	350.9110	Axle Shaft	57	350.9139A	Drive Pulley Spacer (only fitted on reverse recessed driven pulleys (55))

PARTS LIST

Item	Part No	Description	Item	Part No	Description
56	350.9126	Clutch (Petrol Engines only)		350.9500	Honda 5.5hp Petrol Engine
	350.9124	Pulley Taperloc (Electric Motors only)		350.6015	Key 1/4" x 1/4" x 58mm
	350.9124A	Bush Taperloc 24mm (Electric Motors only)		832.1050	Split Pin Throttle Cable Retaining
57	350.9165	Handle Clamping Plate		812.1030	M3 Washer (Throttle Cable Retaining)
58	350.9119	Driven Shaft (Large Gear)			
59	350.9118	Drive Shaft (Small Gear)			
60	350.2010	Chassis & Gearbox Assembly			11Hp Engine spares (Not Shown)
61	350.9102L	Top Plate		350.9178	Throttle Cable Spring Mounting Bracket
62	350.9103	Electric Starter Box Mounting Plate		350.9520	Honda 11 hp Petrol Engine
63	350.9100M	Engine/Motor Mounting Plate 5.5HP & Elec Motors)		350.7010	Cable Return Spring
	350.9100N	Engine Mounting Plate (11HP Engine & 400v Electric)		350.9520	Honda 11 hp Petrol Engine GXV 340 K1
64	350.9101A	Handle Assembly		832.1050	Split Pin Throttle Cable Retaining
65	350.9109	Vacuum Take-off		812.1030	M3 Washer (Throttle Cable Retaining)
66	350.9141	M12 x 25 Countersunk Socket Screw		350.6003	Engine Pulley Bolt 11hp Honda
67	350.5610R	Diamond Disc (10 segment concrete)		350.6004	Engine pulley Bolt Spacer 11hp Honda
	350.5610RA	Diamond Disc (10 segment asphalt)			
	350.5620R	Diamond Disc (20 segment concrete)			110/220v Duel voltage Electric Motor spares
	350.5620RA	Diamond Disc (20 segment asphalt)			(Not Shown)
	350.5610G	Diamond Disc (10 segment universal		350.9570	110/220v Electric Motor
	350.5620G	Diamond Disc (20 segment universal) - fitted as standard		320.9143	110v Starter
	350.9142	Diamond Disc Adapter Kit		320.9147	220v Starter
68	350.9143	Diamond Disc Adapter		350.9123	Drive Pulley Retaining Washer
69	350.9175	Throttle Cable complete		350.6011	Electric Motor Pulley Spacer
70	350.9130	Top Cover			
					415v 3ph Electric Motor (Not Shown)
		5.5HP Engine spares (Not shown)		325.9186	Electric Starter 380/440V 3ph
	350.9190	Clutch Retaining Washer		350.9575	415v 50/60hz 5.5kw 7hp flange motor
	350.9191	Collet		350.6012	Electric Motor Pulley Spacer
	350.9192	Collet Nut		350.9100A	Flange mounting

TECHNICAL SPECIFICATIONS

Height	914 mm	36"
Width	660 mm	26"
Length	1220 mm	48"
Cutting width	590 mm	23 inch
Average depth of cut (dependent on concrete)	1 mm	0.040 inch
Disc rpm approximately	Approximately 360 rpm	
Working distance from wall	48 mm	2.0"
Additional weight blocks	17.5 kg each	38.5 lbs each
Light Duty Power units		
Electric Motors	Dual voltage	3.0HP 230/110v 50/60hz
		2.2 kw (15.5amp / 20.0amp)
		7.5HP 400v 50/60hz
		5.5kw (10.8amp)
		114kg
		251lbs
Honda engine		
	5.5 hp	4.1 kilowatt
Approximate Fuel Consumption (230PSH)	1.6 litres per hour	0.35 gall per hour
Weight	114kg	251lbs
Heavy Duty Power unit		
	11 hp Honda	6.4 kilowatt
Approximate Fuel Consumption (250PSH)	3.5 litres per hour	0.77 gall per hour
Weight (including two weights)	179kg	395lbs
No weights are normally fitted on electric versions, apart from 400v 5.5kw 7.5hp machine which can have a maximum of one 17.5kg weight fitted.		
Maximum of two weights on 5.5hp Honda engine versions, (optional extra).		
Maximum of three weights on 11hp Honda engine versions (two supplied).		
Electric Motors		
Noise L_{WA} SWL		93.5dB (A)
Declared Noise emissions in accordance with EN ISO 15744: 1999		
Honda 5.5HP Engine		
Noise L_{WA} SWL		97.9dB (A)
Honda 11HP Engine		
Noise L_{WA} SWL		94.2dB (A)
Declared Noise emissions in accordance with EN ISO 15744: 1999		
Vibration (AEQ) at the Handle Bar (Electric Models)		
		$a=1.6 \text{ m/s}^2$ (K= +40% -0%)
(Petrol Models)		
		$a=3.1 \text{ m/s}^2$ (K= +40% -0%)
Noise level measured in accordance with	EN ISO 15744: 1999	
Vibration measured in accordance with	BS EN ISO 5349-1: 2001	
	BS EN ISO 5349-2: 2002	

(k) ** Equals the factor of uncertainty, which allows for variations in measurement and production. Vibration Data figures are tri-axial, which gives the total vibration emission. Because of various factors, the range of vibration from these machines may vary 1.6m/s^2 & 5m/s^2 . The vibration is dependent on the task, the operators grip and power source etc.

NOTE: The above vibration levels were obtained from tri-axial measurements to comply with the requirements of "The Control of Vibration at Work Regulations 2005" and the revisions to the (8662) now EN ISO 28927 and EN ISO 20643 series of standards. These values are at least 1.4 times larger than the values obtained from single axis measurements.

*Based on European Union Council Directive 2002/44/EC (Physical Agents (Vibration) Directive)

This tool has been designed and produced in accordance with the following directives: 2006/42/EC Machinery Directive

If your company has any problem with our products or would like to discuss the possibility of an improvement being made to them, then please do not hesitate to contact us. Your comments are both important and appreciated.



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call: 01698 333200

Trelawny tools are thoroughly tested under specified conditions in accordance with applicable internationally recognised standards. When a tool is used on site the conditions may not be the same as those used in Trelawny tests.

Trelawny Surface Preparation Technology operates a policy of continuous product development and refinement and therefore reserves the right to change technical specifications and product designs without giving prior notice.

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