

OPERATING THE SAW

The saw is supplied ready for work. The engine has been run up and the speed set at the factory. Before starting the engine, as a precaution, check the oil level. Fill the petrol tank with lead free petrol.

The CS350/450 Compact floor saw can be operated fitted with either dry or wet cut diamond blades. Abrasive cutting discs can also be used. All blades must have a 1" diameter arbor hole with drive pin.

1/ Raise the saw to a height to permit fitting of blade. Slacken blade shaft nut and remove outer flange. Remember the shaft thread is left handed (ie) turn nut clockwise to slacken. The flanges and shaft collar should be clean and free from bruises. Check the drive pin is tight and in good condition. If any doubt replace. Never operate the saw without a drive pin fitted.

Sawing without the drive pin may cause damage to the blade shaft, blade and flanges.

2/ Check coolant feed pipes are clear and free from blockages. If blocked replace.

3/ The blade should be a snug fit on the shaft and force should be unnecessary. If the blade is a tight fit the bore of the blade and the blade shaft should be checked for damage. The outer flange and drive pin should locate the blade on the shaft. Firmly tighten the blade shaft nut to clamp the blade between both flanges. Note a 24mm flat is machined onto the blade shaft to facilitate fitting and removal of blades. The blades must run true to give optimum performance.

4/ Check the blade guard is securely fastened in position and is free from cracks and damage. If in doubt replace – never operate the saw without both guards in good condition and correctly fitted. Failure to comply could result in serious personal injury.

STARTING THE SAW

- 1/ before starting the engine ensure the blade is clear of the surface.
- 2/ Before starting the engine be sure you have proper footing and your feet are clear of the blade.
- 3/ Starting instructions are provided specific to the engine fitted. See engine manual before starting. Once started allow the engine to warm up half throttle or less.
- 4/ Open the throttle to full revs. All cutting should be carried out at the full revs factory set position.
- 5/ Open the water valve to full, check water flow is adequate before lowering the blade and beginning to cut. Note: For a continuous supply a hose can be connected to the top of the water tank via a flow control valve. The additional weight of the water in the tank then aids stability and absorbs vibration. Remember when using wet cut blades if the water supply is interrupted during cutting the blade will be destroyed almost immediately.
- 6/ When dry cutting the water tank supply can be set to a fine trickle to suppress the dust.
- 7/ Slowly lower the blade into the surface. If the blade speed drops or the engine begins to stall raise the blade out of the cut until revs rise again to correct speed. Push the saw forward gently with controlled, constant pressure. Never force the saw forward always allow the blade to cut. When cutting at the correct rate a distinctive “swishing” note will be heard coming from the blade.
- 8/ When the required cut is finished raise the saw clear of the surface.
- 9/ Turn off water supply.
- 10/ Move throttle to “tick-over position” and allow the engine to cool down before stopping. It is good to turn off the fuel tap when the engine has been stopped.

SAWING TIPS

To achieve optimum performance of the CS350/450 Compact floor saw and utilising the (low) horsepower available it is advantageous to make several shallow cuts to achieve the final depth of cut required. For example if a finished depth of cut of 70mm is required then make two cuts, each 35mm deep. The resulting depth of cut will be achieved faster and with less wear on the machine, engine, blade and the operator. The operator will also find that it is easier to achieve a straighter cut and require less physical effort.

ABRASIVE BLADES – Take great care when sawing with abrasive blades. Never force or twist the blade in the cut. The blades could easily break and cause severe personal injury.

DIAMOND BLADES – never use wet cut blades without water. Dry cut blades must be clearly marked as “Dry cut” but they can be used with water subject to the manufacturers recommendations.

SPECIFICATION SHEET

Specifications						
Type	CS 350			CS 450		
Part No.	CS 350-1	CS350-2	CS350-3	CS450-1	CS450-2	CS450-3
Blade Guard Capacity (mm)	350	350	350	450	450	450
Depth of cut (mm)	127	127	127	162	162	162
Blade Shaft Diameter (mm)	25.4	25.4	25.4	25.4	25.4	25.4
Blade Shaft Speed (rpm)	2800 - 3160	2800 - 3160	2800 - 3160	2120	2120	2120
Engine/Motor Power (hp)	8	7.5	11	11	13	10
Engine/ Motor Speed (rpm)	3000	3000	3000	3000	3000	3000
Dimensions (mm)						
Height	700	700	700	700	700	700
Width	440	440	440	440	440	440
Length	780	780	780	780	780	780
Weight (kg)	72	72	72	80	80	80
Water Tank Capacity (ltr)	32	32	32	32	32	32
Engine/Motor Type	Petrol	380/415v 3 Phase	Petrol	Petrol	Petrol	380/415v 3 Phase