13	**Cross Cut Saw** **Re-use** all existing ductwork from machine spigot to the 90° bend 3m from floor level.	**500**
14	**Casolin Sliding Table Saw** **Re-use** all existing ductwork from machine spigot to the 90° bend 3m from floor level.	**1000**
	TOTAL VOLUME REQUIREMENTS	**16,700 cfm**
	TOTAL VOLUME TO BE EXTRACTED	**16,700 cfm**

System Design

Filter Module and Main Extraction Fanset

We will re-use your existing **DCS MD/B80/BJ** filter module for the collection and removal of the waste extracted.

We have included to replace the existing steelwork which will raise the rotary valve to a suitable height to enable us to install a **20360HD Angleveyor** conveyor which will convey the waste and deposit it into your proposed Silo and Burner System, (Silo and Burner system to be supplied by others).

The Angleveyor is supplied with **0.75KW** 3 phase drive unit comprising shaft mounted gear motor with IP55 motor to give a chain speed of 0.25 m/sec. The Angleveyor is manufactured from galvanised sheet steel for external use.

It was apparent from our site visit and subsequent calculations that the existing **75kW** main extraction fanset will not handle the system pressure required from the new layout. We would therefore recommend a **Nordfab Combifab** fan unit suitably designed to extract the dust created from all the machines running simultaneously.

The **Nordfab Combifab** fan unit, through the application of complex computing programs and many years of development, is a highly efficient fan unit focusing on noise level, energy consumption, flexibility and durability.

To successfully extract the waste created from the above machines we would recommend the **Nordfab S0.40-630/G5A Combifab** fan unit, complete with a **45kW 4-Pole** electrical motor suitable for an electrical supply of 415/3/50. The fan unit comes complete with vee-belt drive and guards, inspection door, and mounting frame. The anticipated breakout noise from the fan unit will be **77.8 dBA** at one metre free-field range.