



New Generation Diamond disc to grind and hack concrete



Concrete, the mixes, methods to use and in general use of concrete is coming of age in our country. More the concrete being used, more the challenges related to shaping it after walls, columns or ceilings are cast. Power tools are available to grind, but not the right cutting tools that could reduce the break down on these power tools!!

We make shear walls to reduce time, save on plastering thickness or totally eliminate it, by changing the construction practices. In reality the time and the material saving in plastering happens only when the surface is ground and leveled. This calls for the selection and the use of power tools. While most of the power tool brands have the right machines, the challenge has been to select the grinding disc that can do the job without affecting the machines, still aggressive enough to complete the job fast.

The same challenge is relevant to the process of mechanical hacking. Manually, the hacking process is slow, dependant on the stamina and the skill of the workman who does the job. Rate of progress in cured concrete is much slower, if we do not compromise on the depth requirements of the keyways the process has to create. Given the arduousness of the work to be done getting workmen is more and more difficult. These circumstances have forced the industry to look at options to mechanize the process of hacking. One option is to use a portable angle grinder fitted with a diamond disc to do this job.



Whether grinding or hacking, the challenge is the speed and the quality of work, without the idle time created by break down of power tools. More you look at it, it will be more relevant to reduce this idle time, whether the builder does the job himself, or out-sources it to sub contractor. Conventionally, Companies keep switching to different brands of power tools to circumvent this problem. The fact is that the right grinding or hacking disc mounted on the power tool can

phenomenally reduce the break down frequency of the power tools and reduce machine maintenance costs!!

The question now is whether any diamond discs are manufactured and designed to work on abrasive heterogonous material like concrete or fiber glass? The answer is yes. Wendt India Limited is an Indo-German Joint venture based at Hosur with 27 years of experience in providing solutions to various industries using diamond and CBN. Their domain specialty is



to prepare surfaces in hard to machine material like steel, carbides, special alloys, glass, refractory etc and reduce time and cost of processing, when more work needs to be done.

Wendt have come out with the first of their products to the construction industry with CHATUR branded Diamond Discs for grinding and hacking concrete. The product range has imbibed a Technology the Company acquired in association with a European University. The difference between the CHATUR range of

discs and the commonly used Metal bonded Diamond Cup wheels is in the Construction of the wheel and the grinding/ cutting action.

Diamond cup wheels are made of segments or ring. These segments have a composition of metal matrix powder (the bond) and Industrial diamond (the abrasive). Diamonds form a small percentage of the total mix by volume and the mix is sintered and made into segments or ring. The grinding process happens when the abrasive comes in contact with the material to be ground. Meaning, the wheel has to continually shed the bond to keep exposing the diamond layer beneath. This causes a tremendous amount of friction at the grinding edge and hence the machine mounted on draws more current. This affects a power tool electrically. High weight and the distribution of weight of the metal bonded



wheels affect the power tool mechanically. Causing frequent break downs and increased costs.

CHATUR diamond discs use a process by which diamond abrasives are

chemically fused on top of a metal base. This construction provides highly exposed, ready to cut diamond edges at the contact surface to either grind or hack. With reduced friction at the cutting edge and a well balanced construction, the power tool mounted with CHATUR breaks down much less, but completes the work much faster.

Chatur can be fitted on any brand of Portable Grinder. Available in 101mm (4") dia with 20mm bore. 117mm(4 ½") and 127mm(5") are under development. The same discs can be used both for grinding and hacking applications. Hacking leaves a neat keyway for the plaster to get a foothold.

As more and more of concrete gets used, more will be the need to select, invest and use the correct cutting tools. CHATUR is one such tool, should **you need to shape or hack concrete.**

Please contact for Your requirements to:

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