



Cutting edge  
technology  
for your  
concrete needs



## INTRODUCTION

Abcon Tech & Build Aids Pvt Ltd, specialize in controlled dismantling of concrete structures. Abcon has pioneered the latest Diamond Cutting Technologies in CONCRETE SURGERY in India.

Dismantling of RCC structures SAFELY, while preserving basic structural integrity is a job requiring in depth site experience and an excellent understanding of basic structural concepts. Quick and safe solutions for modification of RCC structures are demanded by clients today. ABCON executes such jobs in a highly professional manner by using modern machinery and state of the art techniques with minimum downtime. Two decades of dedicated site work has earned us accolades and appreciation for our speed of execution and precise cutting while fulfilling all structural requirements safely.

At Abcon we strive to make a difference. We are a team of experienced, safety conscious skilled professionals who take pride in what we do.

# P r o f e s s i o n a l

## DIAMOND SAWING AND DRILLING SERVICES



### FLAT SAWING

Diamond Slab/Floor sawing is a quick, precise, vibration free cutting method. It is generally used to cut horizontal surfaces such as RCC slabs, floors etc.,



### WIRE SAWING

Diamond Wire Sawing is an extremely versatile method to dismantle concrete in any size and shape. Wire sawing can easily handle the large projects. Wire saw technology offers a large range of possibilities for cutting reinforced concrete structures. With regard to the cutting depth and kind of cutting, this technology offers almost unlimited applications.



### WALL SAWING

Wall sawing employs a diamond blade on a track-mounted system that can be used for vertical and horizontal cuts. This set-up can also be used on steep inclined surfaces where a floor saw cannot be used safely. Wall sawing is typically specified to cut precise openings for doorways, ventilation units, and windows.



### CORE DRILLING

Core drilling is a 100 percent vibration free technique to drill holes through RCC structures using diamond drill bits. This is a dust free, quiet and capable method of cutting through steel reinforcement easily. Unlike rotary drilling, there is no vibration in core drilling and consequently, no structural damage because reinforcing rods are not loosened.



### Typical Applications:

- ▲ Sawing reinforced concrete slabs, creating openings, etc
- ▲ Sawing for making of trench in concrete floors..
- ▲ Partial Dismantling of Foundation, RCC walls
- ▲ Dismantling of columns and beams
- ▲ Demolition of buildings, bridges, cooling towers, silos, chimneys, tunnels etc.,
- ▲ Virtually unlimited concrete thickness.
- ▲ Straight, smooth finished openings in walls, ceilings, and floors
- ▲ Coring of holes in old machine foundation to accommodate new equipment
- ▲ Core drilling of holes in RCC beams and slabs to accommodate sanitary pipes etc
- ▲ Coring in RCC structures as sample for testing.

# S e r v i c e s

## SILENT DEMOLITION SERVICES

Dismantling or demolition of a structure is sometimes more critical than its construction. Present day technological advancements in the field of construction provide modern methods such as controlled demolition, robotic demolition and Silent Demolishing Techniques. These modern techniques are free from Vibration, noise and dust and are extremely fast.

### Abcon offers following latest methods for Silent Demolition

▲ Concrete crushers and Concrete shears    ▲ Concrete splitters and Concrete Bursters    ▲ Pile crushers    ▲ Implosion Technology    ▲ Robotic Demolition

**Implosion Technology** (In Collaboration with **Controlled Demolition Inc., USA**) involves precise demolition of a concrete structure within its own footprint. After a detailed collapse analysis of the structure, small amounts of explosive are placed at critical locations in the structure which detonate in a planned sequence. When combined with carefully timed explosive charges and gravitational energy, the CDI's Implosion technology allows unbelievable control over the planned demolition of complex structures while maximizing fragmentation of debris and is especially suited for large and tall structures.

### Hydraulic Splitting

Vibration free, noise free, dust free, blasting free technique for splitting of hard rock and RCC. These Splitting Cylinders are handheld demolition devices, which split concrete or rock in a controlled fashion with the use of hydraulic pressure. They are indispensable in situations where large machines cannot be used, e.g. for all kinds of demolition work in enclosed rooms, on difficult sites, in almost inaccessible places and even under water.

- ▲ Removal of rock where blasting is not allowed.
- ▲ Dismantling of RCC foundations
- ▲ Dismantling of bridge, dam piers etc.,
- ▲ Total demolition of heavy structures like bridges, pile caps, beams columns, footings etc.,

## CONTROLLED DEMOLITION

### Electrical chipping

These are lightweight, hand-held, low impact high frequency electrical chippers, that can be easily positioned to break vertical and horizontal surfaces. By offering a controlled chipping action, these hammers allow operators to precisely chip away only specific areas, without causing any damage to steel reinforcement.

- ▲ Making of opening in RCC slabs for introduction of staircase etc.,
- ▲ Making openings in RCC walls for ventilation, door openings, AC ducts, etc.,
- ▲ Removal of concrete in RCC beams, columns and foundations.
- ▲ Removal of concrete to expose steel.
- ▲ For removal & alteration of RCC structures

## FASTENING SYSTEMS

- ▲ Fixing of Specially designed anchors to introduce steel members etc
- ▲ Fixing of shear connectors for extension of beams, columns footings etc
- ▲ Fixing of heavy duty chemical and mechanical anchors systems.
- ▲ Designing of fastening systems.



# P r o f i l e

Our team of professionals have the correct training in all forms of concrete dismantling, diamond cutting methods including flat sawing, core drilling, wall sawing, wire sawing, technical expertise and state-of-the-art-equipment to handle both small and large projects. Our in depth knowledge of the construction process gives you the confidence of knowing that your project will be executed safely, professionally and according to the agreed schedule!

We excel in unusual and difficult works which have specific constraints (such as time, access, engineering, location etc.,). Our technical experience and a wide range of specialized equipment enable us to complete these jobs safely, efficiently and on time throughout India.

ABCON prefers to work with Architects and Structural consultants involved in the project to find a solution to the problem technically so that the job is executed as per specifications agreed by all.

ABCON is a technology and productivity-driven company. This is your automatic assurance that the right tools and processes will be used to minimize the cost and time, ensuring overall savings to your company.

If your project requires any type of concrete removal, the ABCONTEAM is at your service 24 hrs a day, 365 days a year. Just give us a Call.





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