

vd

voladuras &
demoliciones



recycling the past
preparing the future

Presentation



Pilar de la Cruz
Minnig Engineer

Adolfo García
Minnig Engineer

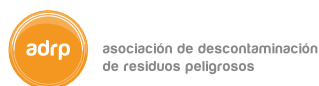
Voladuras y Demoliciones belongs to a group of companies dedicated to demolition activities including all the facets related to it: demolitions, dismantlement, scrapping, removal of asbestos and the management and recycling of both toxic and non-toxic waste that might be found in the demolition zone.

We work with our own team of prestigious technicians in the demolition area and also with operative personnel that have a vast experience. We also have the most modern machines which allow us to use the most efficient technique for each procedure.

The keys of our success and of our customer's satisfaction are simple:

- Professionalism, reliability and compromise.
- Both Specialists and materials guarantee efficiency, availability and safety.
- We use ALL the demolition techniques, which allow us to use the most suitable combination of them for each work.
- Top-quality management of the non-toxic waste and recycling of all of the usable resources.

Voladuras y Demoliciones is member of:



Services

página 4



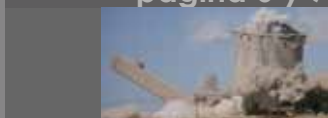
Solutions

página 5



Demolition and dismantling engineering

página 6 y 7



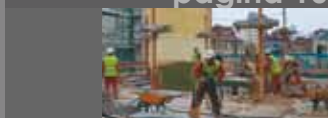
Controlled blasting demolition

página 8 y 9



Mechanical demolitions

página 10



Manual demolitions

página 11



Remote demolition robots

página 12



Scrapping

página 13



Metal recycling

página 14



Dismantling

página 15



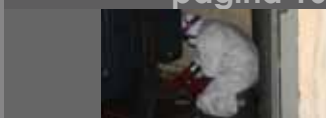
Asbestos and asbestos cement

página 16



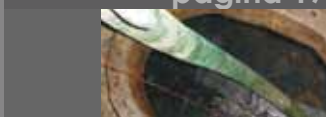
Decontamination

página 16



Hazardous waste identification

página 17



Hazardous waste removal

página 17



Hazardous waste complete management

página 18



Selective demolition and waste management

página 19



CDW recycling

página 20



Rock fragmentation

página 23



Emergencies

Solutions



The procedures are performed using different methods according to our customer's requests:

- Main contractor
- Subcontractor for the demolition
- Turn-key projects
- Engineering, studies and technical support

Our clients are from a wide variety:

- Developers
- Builders
- Industries
- Mines
- Public administration
- Private sector

We work, as far as possible, with fixed prices and we meet the deadline set with high standards of professionalism and safety using our most modern machines.



Demolition and dismantling engineering



Demolition projects
Tender documents
Technical support
Feasibility studies
Blasting projects
Safety projects
Project management

Asbestos management plan
Dismantling plan
Decontamination plan
Debris removal plan
Processing of authorizations
Turn-key projects



Controlled blasting demolition



Voladuras y Demoliciones performs blasting procedures in demolitions with explosives (controlled blasting work) as well in rock drilling and blasting (excavation using explosives).

VD is authorized to use blasting in these specialties:

- Demolitions
- Blasting under specific risks
- Blasting near wave emission centers
- Blasting near electricity centers
- Large blasting works



Controlled blasting demolition



Our technical team has the highest experience in demolitions with explosives in Spain. This is over 100 of controlled blasting procedures performed.

We have been pioneers in a large series of advances in this technique such as demolitions of metallic structure with shaped charge, electric and non-electric detonators with mixed initiating systems, systems against dust of demolitions with explosives or the use of electronic detonators.

Works of high technical complexity that presented the limitation of being very close to other edifications have been performed.

The method of using explosives for demolitions is a resource, that although has a limited field of application, that presents a remarkable advantage regarding price and safety.



Mechanical demolitions



Construction management of all kinds of mechanical demolitions using our own and special machines for demolitions, long reach arms, hydraulic breakers, hydraulic shears and heavy duty hydraulic hammers.

Our variety of machines covers all the necessities that can be presented during the demolition:

- Escavators from 1,000 kilos to 60 tons
- High reach booms
- Flying demolition system
- Primary, secondary and multi-process hydraulic breakers
- Hydraulic shears
- Heavy duty hydraulic hammers



Mechanical demolitions



Demolitions in high places are carried out safely, quickly and a correct separation of the materials in the original place is made to maximize the recycling and to minimize the debris volumes that must be transported to the tank.

Selective demolitions carried out before and during the operations using mechanical methods and after using manual sorting machines at the place.

The possibility of recycling debris at the same place using our own methods to produce recycled goods.



Manual demolitions



Manual demolition performed by specialist personnel and with the assistance of machines:

- Demolitions to make improvements and changes of usage
- Integral demolition with or without front fastening
- Partial demolitions of buildings and structures
- Cut and previous works for the posterior manual demolition
- Selective demolitions
- Dismantling and scrapping using manual methods in industries and commercial surfaces



Remote demolition robots



Demolitions using distance controlled robots equipped with hydraulic crushers and hydraulic hammers.

We are good with works that present specific risks, places closed by their electric engines, nuclear dismantling, and concrete industries.

They are more powerful than conventional machine of the same size.

Specialist personnel in robot controlling and in special risk situations.



Scrapping



We perform all kinds of scrapping using our own resources. The material can be kept by the customer or it can be considered as part of the payment.

- Heavy duty shears
- High reach booms with shears
- Oxy-fuel cutting
- Plasma cutters
- “Tin-opener” shear for gas tanks and stores
- Manual hydraulic shears for copper wires use
- Metal classification and removal
- Appraisal of complete industrial installations



Metal recycling



Voladuras y Demoliciones possesses its own installations for metal processing for the appraisal of the materials selected in the demolitions works, scrapping and dismantling.

This process allows us to increase the added value of our works benefiting our customers with more competitive prices.

- Rippers
- Abrasive blasters
- Metal shredders
- Densimetric separators
- Portable and static shears
- Wire stripping machines
- Metal press



Dismantling



Special dismantling works are designed and executed using the most advanced techniques ensuring deadlines and safety.

- Removal of special structures
- Bridge demolition during night time using diamond cutting equipment, removal with cranes and mixed systems
- Partial or complete industrial removal



Asbestos and asbestos cement



Different works are performed such as removal and dismantling of materials with asbestos, non friable asbestos such as asbestos cement (better known as materials made of slate) and friable such as boiler insulators, projected asbestos, etc.

Voladuras y Demoliciones performs works of asbestos removal under the strictest European safety and protection regulations, Asbestos Risk Work Plan, the dissembling regarding all the safety measurements, palletized or packing of materials, hermetic encapsulation, labeling and transportation to a controlled dumping site.

Engineering and field work for asbestos inventories, including identifications tasks, characterization, quantification and design of the asbestos removal tasks.



Decontamination

Decontamination means the identification and removal of hazardous residuals that are in an installation or are product of an environmental accident. It comprehends every step from sample taking and its characterization in authorized labs to the separation of it, its adjustment and its final disposal in a suitable dumping site.

The most common demolition residuals are asbestos, PCBs (Pyralène and askarel), radioactive elements, materials with lead, fluorescent tubes, tanks with hydrocarbon storages and chemical residuals of industrial processes.



Hazardous waste identification

Prior a demolition, restoration, reparation or renovation, we prepare an inventory of hazardous waste that will be produced during the work. This inventory is included in the Waste Management Study then in the Waste Management Plan.

In this way, we also plan their selective removal in order to avoid the mix of the waste with non hazardous waste or between them and we can ensure its deliver to authorized agents of waste management. We also have technicians with training in the elaboration of inventories, sample taking, identification and the creation of informs of hazardous waste.



Hazardous waste removal



Voladuras y Demoliciones performs the selective removal of hazardous waste, its adjustment, transport and final delivery to the authorized dumping site.

We have the most advanced personal and collective protection equipment. We also have the installations and the necessary auxiliary means to perform the environmental measurements, sample taking, protect our employees and guarantee the decontamination of a site.

Hazardous waste complete management



All the procedures are performed under the surveillance of specialist technicians with accredited formation in identification and removal of hazardous waste. A strict control is carried out on the production and final management of waste and on the personal and environmental measurements.

The personnel have specific medical examinations and health monitoring. They also have advanced qualifications in hazardous waste management and safety measures for works in potentially hazardous environments. Furthermore, they wear personal protective equipment in case of exposition to risks.

Selective demolition and waste management



Voladuras y Demoliciones performs selective demolitions works in all of their variety before starting the demolition and during the demolition due to the implements of specialized machines and even after the demolitions using groups of portable shears.

The selective demolition allows maximizing the volume of recycling materials, recovering of valuable resources and minimizing the cost of the complete waste management. This allows us to be more competitive and at the same time helps the environment.



CDW recycling



Voladuras y Demoliciones performs the recycling of stone materials of the demolition (concrete, ceramics and masonry) or from the excavations using portable groups of crushing machines and classification of track-mounted screening plant.

Thanks to the control on origin of the cleanliness and homogeneity of the wastes, made by a previously selective demolition, a high-quality recycled and artificial aggregate is created, which is suitable for bases, sub-bases, fills, vials, drains, etc. to be used in the same work or distributed in other points.



Rock fragmentation



Voladuras y Demoliciones performs all types of rock fragmentation, from the perforation and blasting procedure to the crushing and its classification for the production of artificial crushed aggregates.

Our specialty in this field is the works with specific risks or special difficulties derived from the limit of vibrations, projections, air blast or the proximity to inhabited urban areas.

The extraction of the rock during the excavation is performed in three different methods:

- Drilling and blasting
- Hydraulic hammers
- Expansive mortars

As a complement for rock excavation, we offer our portable crushing and classification machines as an integral excavation and recycling solution.







Emergencies

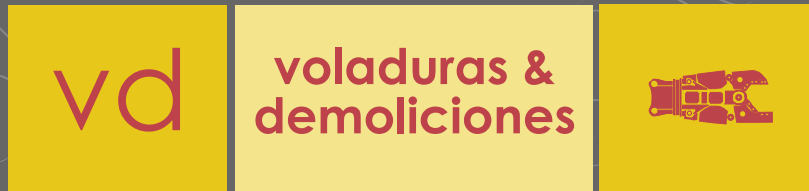
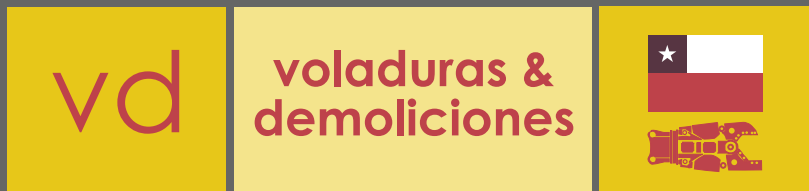


Voladuras y Demoliciones has a vast experience in emergency works, accidents, urgencies in disasters and earthquakes.

Our experience in this field has led us to establish and improve a communication net, protocols and a system which has allowed us to give immediate assistance with our machines, personnel and technicians who have a vast experience in these situations.

Under this situations, the experience and availability of our own resources that are placed at disposition by our company specialized in demolitions are essential for a fast solution to the problem without causing damages to others.





CHILE

Voladuras y Demoliciones Chile, Spa

Av. Bernardo O'Higgins 403,
Concepción

Phone.: (+56) 41 224 9248

Emergencies (24h): (+56) 9 6594 1375

Fax: (+56) 41 224 9248

Site: www.voladurasydemoliciones.cl

E-mail: info@voladurasydemoliciones.cl

SPAIN

Voladuras, Demoliciones y Desguaces, S.A.

Cañamarejo 4 y 6
28110 Algete - Madrid

Phone.: (+34) 91 628 14 57

Emergencies (24h): (+34) 627 419 982

Fax: (+34) 91 628 14 97

Site: www.voladurasydemoliciones.es

E-mail: info@voladurasydemoliciones.es

