



Africa's Premier Demolition Company

At Jet Demolition, large turnkey and technically demanding projects are our focus, and we are passionate about demolition. Demolition of Heavy Industrial, Petrochemical and Mining Plants and Infrastructure are our primary areas of operation.

Jet Demolition, established in 1994, provides professional demolition services to leading companies in the heavy industry, petrochemical, mining and commercial sectors in Africa and beyond. Our technical base and long-term commitment to continual improvement of all we do has produced a firmly-established demolition company that is unparalleled in terms of safety, technical and contract performance.

- Our Key Strengths
 Full- and long-term commitment to our business services with an emphasis on International Best Practice and mechanisation.
- One of the few companies internationally that offers in-house controlled explosive expertise, as well as a full range of advanced mechanical demolition services.
- Technically-based company with 10 members of staff having technical degrees or diplomas.
- Fulltime, trained, experienced and motivated staff with an embedded safety culture consistently achieves the highest levels of safety performance and productivity.
- Fulltime dedicated SHEQ department. OHSAS 18001, ISO 9001:2015, NOSA 5 Star and NOSCAR certification.
- Extensive range of modern equipment with 28 demolition excavators up to 102 tonnes in size and 35 m reach, with specialised high-performance demolition tools including full in-house support team.
- Long established culture and track record of superior performance on large, complex and technically demanding projects.
- Highest levels of corporate governance and financial prudence.
- Largest and Most Technically Advanced Demolition Company in Africa.

Main Areas of Expertise

- Heavy Industrial, Petrochemical, Mining and Large Commercial Demolition Projects.
- Turnkey Projects for Purchase, Decontamination, Demolition and Rehabilitation of Industrial \bullet and Mine Plants.
- Fast-track Shutdowns and Rapid Demolition under 24/7 Conditions.
- Controlled Explosive Demolition of Large Structures Under Demanding Conditions.
- Advanced Mechanical Demolition Methods and Innovative Technical Solutions.
- Dismantling of Equipment and Structures.
- Value Recovery from Safe Metals and Recycling.
- Decontamination of Radiological Hazards, Asbestos and Hazardous Substances.
- Environmental Rehabilitation of Industrial and Mine Sites.



DEMOLITION (PTY) LTD

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Jet Demolition derives its name from the jet action produced by shaped charges. Each shaped charge consists of a main charge and a metal liner. When detonated, a reaction takes place beginning at an initiation point. An explosive reaction travels from the initiation point through the charge and causes the metal liner to collapse, converging explosive gases onto a single point. This convergence of gas causes the liner itself to form a high velocity jet of metal which is expelled from the charge, breaking concrete and cutting steel.



A SabreJet Charge (20 g/m) Wrapped Around a Fibreglass Pipe (top) and the Resulting Cut After Firing (bottom)

Cutting Action of a 3.0 kg JetAxe Charge on a 250 mm Thick Steel Billet

A SabreJet Charge (400 g/m) From Two Different Views (upper and middle) and the Slicing Effect Produced on 25 mm Thick Steel (lower)







50 mm Anchor Bolt Cut by 150 g
 HammerJet Shaped Charge



A ThunderJet Charge and the Breakage Effect Produced by Blasting a Concrete Block Measuring 10.7 Cubic Metres

Splitting Action Produced by a ThunderJet Charge on a 900 mm Diameter Steel Roller (left) and a 900 mm x 1400 mm Steel Ingot (right)

Heavy Industrial Demolition











Sequential Explosive Demolition of 5 Concrete Cooling Towers





Explosive Demolition of an Unusually Long Steel Structure (7 storeys high x 250 m long)









Explosive Demolition of a 68 m High Fire Damaged Gas Holder Adjacent to Main Plant Power Line and Gas Line

Mobile Crusher for Use in Recovery of Gold During Gold Plant Demolition. Gold Bearing Concrete is Crushed to -40 mm Prior to Milling











Mechanical Demolition of Massive Concrete and Steel Structures at Petrochemical Plant





Innovative Demolition of a 76 m High Concrete Chimney in Only 7 Days at an Oil Refinery Using a 1 000 Tonne Crusher Suspended from a 440 Tonne Crane. Blasting Was Not an Option Because of Insufficient Space and Safety Considerations



Controlled Mechanical Dropping of Clustered Cement Silos





Explosive Demolition of Large Concrete Mill Building

Heavy Industrial Demolition





Precision Controlled Explosive Toppling of a 52 m High Prill Tower with the Top Landing Within 4 m of the Main Modderfontein Explosives Factory Steam Line







Mechanical Demolition of Heavy Structures and Large Equipment



Mechanical Demolition of a Chemical Plant







Explosive Toppling of Headgear Structure Using Shaped Explosive Charges



Controlled Mechanical Toppling of a Large Dust Precipitation Plant at a Cement Factory



Cautious Demolition of 60 m High Chimney at an Operating Acid Plant in 8 days by Means of Scaffolding Cage and Top-Down Stripping





Explosive Demolition of 88 m High Brick Chimney

Turnkey Demolition and Rehabilitation Projects



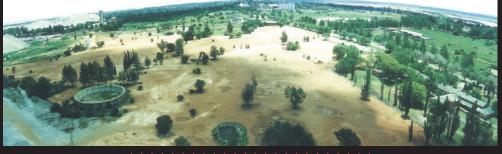




Mine Shaft Infrastructure Demolition and Rehabilitation Including Permanent Shaft Sealing to DMR Requirements



After





Demolition and Rehabilitation of Large Gold Mine **Training Centre**



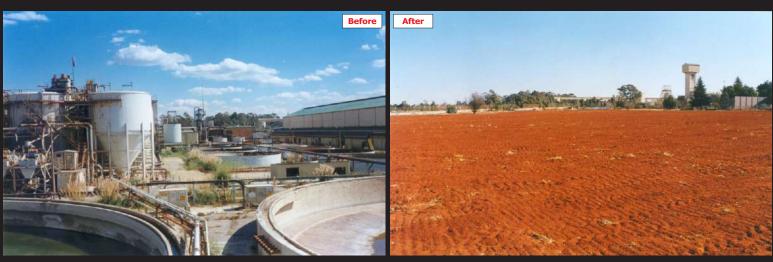
Turnkey Project : (1) Plant Demolition; (2) Reshaping and Soil Cladding of Waste Dump Involving 300 000 m³ of Earthmoving; Installation of Surface Diversion Canals, Subsurface Drains and Evaporation Ponds; (3) Rehabilitation and Establishment of Grass



Closure and Rehabilitation of Vent Shaft and Surrounding Area of Redundant Coal Mines. Project Was Completed in One Month



Turnkey Demolition and Rehabilitation Projects



Turnkey Projects on Large Gold Plant : Plant Purchase, Decontamination, Equipment Salvage, Gold Recovery, Demolition of Steel and Concrete Structures and Rehabilitation







Smelting of Lead for the Removal of Radioactive Contamination and Production Decontamination of Radioactive Equipment Recovered from Uranium, Acid and of Large Ingots for Reuse Gold Plants of Large Ingots for Reuse

High Reach Demolition





Controlled Demolition of Building Containing Fully Operational Municipal Substation



Safe Top-Down Demolition of Chimney

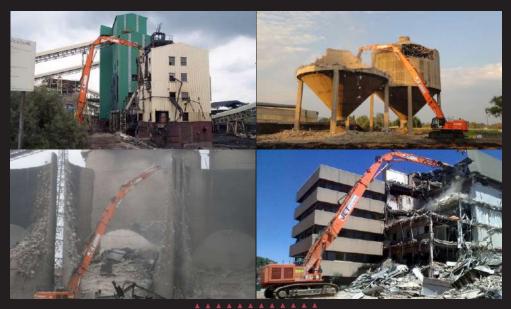








Demolition of 3 Gas Producers Located 1 m from a Storage Building Which Remained



Controlled Mechanical Demolition of Concrete and Steel Structures





Controlled Demolition of Steel & Concrete Structure Adjacent to Operating Gas Plant



Controlled Partial Demolition for Refurbishment



High Reach Excavator Demolishing Mine Shaft Winder House

Cold Cutting Projects





Mechanical Demolition of PSS Plant



Rapid Demolition of Acid Plant by High Reach Excavator



Demolition of Heavy Steel Crusher Structure by a Large Hydraulic Shear



Cold Cutting and Rigging of Petrochemical Plant in Active Process Area that Prohibits Hotwork



Demolition of Petrochemical Tank Using Specialised Hydraulic Shears



80 Tonne Demolition Excavator with a Large Specialised Demolition Shear



Cold Cutting of Industrial Plants Using Specialised Hydraulic Shears

Commercial Demolition













Blasting of Spill Way Crest at Midmar Dam, Prior to Demolition of Bridge Decks and Piers Using Mechanical and Explosive Methods, Before Completed Raising of Dam Wall



Implosion of the Landmark Hotel 147 in Welkom















Implosion of the Babcock Building in Sandton City Centre (8 m from glass facades)

Mechanical Demolition of Buildings in City Centres



Commercial Demolition













Top-Down Demolition and Site Clearing of 4 and 11 Storey Buildings by Mechanical Means to Make Way for a New Parking Garage





Implosion of the Fire Damaged Munitoria Building in Pretoria City Centre Using 300 kg of Explosives. Removal of 44 000 Tonnes of Rubble Was Done in 25 days. The Entire Project Was Completed in 3 Months



Clean Up of the Fire Damaged Munitoria Building Prior to Blasting. A Total of 1 500 Tonnes of Burnt Debris Was Removed



Controlled Crushing ("nibbling") of Concrete Structures Using Specialised Demolition Equipment





Mechanical Demolition of Commercial Buildings





Shutdowns and Rapid 24/7 Projects





Overnight Demolition and Removal of 3 Large Bridges on the N1 Motorway Between Johannesburg and Pretoria



International Projects



Partial Demolition of Operating Gold and Acid Plant Including Controlled Toppling of 71 m High Stack Within 2 m of an Active Plant and Equipment



Demolition of Durba Gold Plant Including Gold Recovery at Kibali, Democratic Republic of Congo



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Explosive Demolition of the 44 m High Taman Sari Water Tower Damaged in the December 2004 Tsunami in Banda Aceh, Indonesia, for the United Nations Development Programme (UNDP)



Demolition of an Old Gold Treatment Plant and Redundant Arsenic Plant in Ghana

Asbestos Decontamination





Asbestos Cement Removal from Industrial Plants According to Government Regulations. Jet Demolition (Pty) Ltd is a Registered Asbestos Contractor

Second Hand Equipment



Recovery and Resale of Reusable Equipment is Often an Integral Part of Large Industrial, Petrochemical and Mining Demolition Projects Where Value Recovery Plays an Important Role in the Project Economics















Safety, Health, Environment and Quality



On all of our demolition projects, the paramount concern is for the safety of persons. Over the past 25 years, we have developed by far the best safety programme in the demolition industry in South Africa. As a result of our continual focus on safe work practices and mechanisation, Jet Demolition consistently achieves the highest levels of safety performance, equivalent to the best to be found internationally.

Key Elements of our SHEQ System

- Bonafide Management Commitment to the Pursuit of SHEQ Excellence.
- Fulltime, Trained, Experienced and Motivated Staff with Embedded Safety Culture Provides a Foundation for the Highest Levels of Safety Performance.
- Fulltime Dedicated SHEQ Department Focuses on Achieving Continual Improvements to our Safety Programme and Safety Performance.
- SHEQ Management System Based on International Standards: NOSA CMB 253, NOSCAR, OHSAS 18001:2007 and ISO 9001:2015.
- Internal Quarterly Audits.
- Annual External Audits by Authorised Inspections Authorities.