
VAV ENGINEERING

Engineering Design Office of CCA



PROFILE

BUCHAREST

ROMANIA

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SPECIALISATION

VAV Engineering specialises in the Cement manufacturing sector offering the following services to Clients worldwide:

- Technical surveys and consultancy
- Technical assistance for all phases of cement projects
 - Execution
 - Erection
 - Operation
- Design of cement production equipment
- Main Contractor services.

HISTORY

VAV Engineering is a private Romanian company established by highly qualified engineers with over 20 years experience in the design and execution of production machinery and equipment for cement plants.

The Company's engineers have worked in some of the most important Romanian companies designing or manufacturing equipment and have taken a direct role in the research and design activities, execution, commissioning and operation of many cement plants built in Romania including Medgidia, Tasca, Fieni, Hoghiz, Alesd, Tg. Jiu and Campulung. Overseas assignments in Syria, Pakistan, China, Lebanon, Iraq, Egypt and Iran have been successfully completed.

For these projects our Engineers were engaged as project managers or specialised design engineers.

We specialise in the design of main equipment for the cement manufacturing sector including:

- rotary kilns
- hammer mills
- grinding mills
- crushers
- grate coolers
- dryers
- bag filters
- conveyors, etc.

The Company is also active in the design of steel structures.

PROJECT EXPERIENCE

We list below recent typical examples of the wide variety of detailed engineering design and project management assignments that **VAV Engineering** has undertaken throughout the international cement industry.

Apart from carrying out cement plant projects in our own right, the company also undertakes considerable sub-contract work for the major cement industry original equipment suppliers including F.L. Smidth, Denmark; Fuller, USA; Claudius Peters Technologies PHB Someral, France.

SOME PROJECT EXAMPLES

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|--------------|--|
| Egypt | Detailed Design and Workshop drawings (Misr Beni Suef Cement)
Equipment erection.

Detailed design and workshop drawings were completed for the steel structures and steel parts of a new kiln line being supplied by Fuller USA. Equipment design included Preheater tower; conditioning tower; kiln hood; tertiary air duct; expansion joints; bag filters and platforms, ducts, pipes and chutes. Total steel 4500 tonnes.

Project specifications produced for manufacturing, painting, erection and quality control of supplies.

Technical assistance provided for equipment erection. |
| Egypt | Engineering Design (Misr Beni Suef Cement)
Design of utility networks for compressed air, water, fuel oil and natural gas.

Technical assistance provided for equipment erection. |
| Iran | Technological and Engineering Design (Estahban Cement)
Technical assistance.

Design and engineering for capacity increase from 50 tph to 85 tph of raw material preparation department. VAV developed an innovative concept for achieving a mill capacity increase by introducing a pre-grinding system with a hammer mill to the milling circuit. Separate gas flows were introduced for the mill and hammer mill.

The installation achieved an output of 90 tph when commissioned. |
| Iran | Process and Engineering Design (Estahban Cement)
Technological design and engineering for a capacity increase to an existing cement grinding department. The mill capacity was increased from 42 tph |

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to 52 tph by modifications to the mill linings, modification to the high efficiency separator, dedusting improvements.

Technical assistance provided for start-up.

Libya	Detailed design and Engineering (Arab Union Cement Company) Detailed design and workshop drawings were completed for the steel structures and steel parts of a new plant being supplied by F.L. Smidth, Denmark. Equipment design included Filtrax filters; Jet Pulse filters; Apron feeders; Expansion joints; Belt conveyors and platforms, ducts, pipes and chutes. Total steel 1200 tonnes.
Nigeria	Detailed design and Engineering (Obajana Cement) Detailed design and workshop drawings were completed for the steel structures and steel parts as a sub-contractor to F.L. Smidth, Denmark. Total steel 1000 tonnes.
Nigeria	Detailed Design and Engineering (Evekoro Cement) Design and engineering drawings produced for the fabrication of main drive parts, and access and support platforms.
Portugal	Detailed Design and Engineering (Cimpor Cement) Design and engineering for Plant Dust Collectors.
Portugal	Engineering Design (Secil Cement) Detailed mechanical and structural design of Stacker and Reclaimer assemblies.
Saudi Arabia	Detailed design and Engineering (Bisha Cement) Design and engineering for Plant Dust Collectors.
Romania	Cement Plant Modernisation (Campulung) Detailed design and engineering was undertaken for the modernisation of the Holcim plant at Campulung. The tasks involved the design of mechanical equipment, civil works, compressed air network, access roads.
Romania	Technical Assistance (Comet Tecuci) VAV provided technical assistance and manufacturing assistance for the production of Stacker and Reclaimer sub assemblies made to Claudius Peters designs.
Venezuela	Structural Steel Detailed Design (Loma de Niquel) Detailed design and workshop drawings were produced on behalf of ABB for steel structures and connection parts. The steel quantity involved totalled 5000 tonnes.

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- Venezuela** **Detailed Design and Engineering (Cement Andino)**
Design and engineering for Plant Dust Collectors.
- Yemen** **Consulting and Engineering Services (Yemen Corporation for
Cement Industry & Marketing)**
Consulting and Engineering Services for Extension Project at BAJEL Cement
Factory:
- Phase I: Tender evaluation & Contract negotiations– completed
 - Phase II, Stage 1: Project Management & Engineering – under
development
- Yemen** **Consulting and Engineering Services (Union Cement Company)**
Consulting and Engineering Services for UCC New Cement Plant in Abyan
- Part 1: Contract preparation and Negotiation – completed;
 - Part 2: Project Execution and Engineering – completed;
 - Part 3: Supervision of Construction – under finalisation;
 - Part 4: Start-up and Commissioning – under development.