

Strategic Solutions for the Extractive Industries! **XtracCon Ltd. & Co. KG**

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COMPANY PROFILE

XtracCon Ltd. & Co. KG

is the syndication of internationally oriented and long term successfully operating experts of the extractive industries.

We are engineers, economists, scientists and surveyors.

We offer the all-embracing consultancy, optimized solutions on complex tasks and problems – and especially the qualified one-stop realization for the extractive industries.

Our aim is to offer to our customers top quality and comprehensive services at an optimized cost-benefit ratio in the realization of tasks and projects.

Besides the technical and economic aspects of our project and consulting work we also put a clear focus on the socio-economic and environmental aspects in order to secure a long term sustainable project and investment protection at minimized consequential costs.

Our core team, consisting of selected experts with a long standing experience executes, coordinates and controls the projects. Excellent quality and project related scalability is achieved by a mature selection and coordinated involvement of our partners from our extensive international network. Being our customer you will receive top performance and quality which matches exactly the needs of your project.

We bundle and coordinate sound experience in all sectors of the extractive industries (ore and coal mines, quarries and pits for gravel, sand and aggregates, minerals processing, mineral economics), surface and underground mining, where the size of operations ranges from small scale up to mega-mines with thousands of employees.

One of our specialties is the conversion of combines and restructuring of companies respectively as well as the preparation and execution of the privatization of state-owned companies. We are familiar with both centralized and de-centralized structures as well as manifold corporate cultures.

OUR EXPERIENCE – YOUR BENEFIT

The range of our experience and activities comprises for example:

analytical assignments in a technical-economic context

(i.e. due diligence, feasibility studies, weak point analysis, result and cost evaluation, market studies, safety, environment, reclamation, risk analysis),

technical-economic planning and optimization of locations and enterprises

(i.e. complex mine and processing plant development, determination and selection of machinery and plants, infrastructure, investment cost and project calculation),

development and optimization of strategic concepts of enterprises and operations

(e.g. positioning in a market, range of products, strategies for competition, planning and development of organizations)

realization of concepts, training and management

(e.g. practical realization of concepts, training on the Job, coaching, temporary management)

Strategic and operative advice to enterprises, investors, banks, government and international organisations.

How can we provide our support to you?

OUR SERVICES -EXCERPT

Through our experts we provide qualified and sound services for all kinds of mining like surface mining in both loose and hard rock formations, underground mining, quarries for aggregates or dimension stone, etc. Our experience covers mines with several million t of production as well as artisanal small scale mining and includes mining under extreme conditions.

Our services comprise among others:

- **exploration**
- **reserve calculation and production planning**
- **determination of mining methods and opening up of deposits**
- **selection of machinery, infrastructure planning**
- **environmental studies**
- **economic evaluation and optimization**
- **rehabilitation of abandoned mine sites**
- **handling of overburden and tailings**
- **mine water management**
- **geotechnical investigations and evaluations**
- **processing of coal, ore and industrial minerals**
- **monitring and quality assurance**
- **market studies**
- **management advice**
- **temporary management and aktive optimization, coaching**



SELECTED REFERENCES



- **Dolet Hills and Castor Bayou lignite mine projects, Lo., USA (mine planning, economic evaluation for a contract mining bid)**
- **Neurath Nordfeld and Gruhlwerk Lignite Mines, Germany (mine management, final contouring and rehabilitation planning)**
- **Unong Surface Coal Mine, Semirara, Philippines (mine planning, mine management, training, water management)**
- **Zhungger Surface Coal Mine, Inner Mongolia, China (BWE training)**

- **Romonta, Amsdorf, Germany (contaminated mine waste dump rehabilitation)**
- **Cobre Las Cruces copper mine project, Seville, Spain (mine planning)**
- **Unterbretzbach Potash Mine, Germany (development of an innovative scheme and machinery for a 20-fold production increase of the underground mine)**



- **Zangezur Copper-Molybdenum Mine, Kajaran, Armenia**
(due diligence, environmental assessment, mine planning, mine modernization)



- **Nusaminera Utama Coal Mine East Kalimantan, Indonesia** (coal blending and barge loading facilities design)
- **El Mutun Iron Ore Project, Bolivia** (mining concept development and economic evaluation)
- **Nuaparra Tantalite Mine, Zambezia Province, Mozambique**
(diagnostic study)
- **Small Scale Gold Mining and Environmental Protection, Peru**
(project evaluation)

- **Hwange Coal Colliery, Hwange, Zimbabwe (diagnostic study on the market potential for Hwange coke within SADC)**
- **Iguig Lignite Mine and Power Plant Project, Northern Luzon, Philippines (Feasibility Study on an integrated mine and mine mouth power plant project)**
- **Dimension Stone Sector in Zimbabwe (mining and marketing assistance)**
- **project operating company (Completing complex operating appraisals for 15 projects in operation including location analysis and market situations: Hanson Germany, Kirchner GmbH and MKW GmbH)**
- **Determination of the current value/ net present value of an upgrading plant**
- **Appraisal of plant, technical equipment, functionality of process engineering, evaluation for various scenarios: a) plant keeps in operation, b) plant being dismantled and b1) liquidated as a whole or b2) single parts being sold.**
- **Analysis and evaluation of Döbritzer Hartsteinwerke (Evaluation of mineral reservoir volumes, plant equipment, property value, Analysis of cost structures, markets, market strategies, operational organisation, reserves/ accruals for restoration funds, risk analysis, cash-flow models)**
- **Recycling of Premium Quality Chippings Schleith Natursteinbetriebe**

- **Valuation of restoration/ recultivation costs Schleith Natursteinbetriebe (Analysis of the Calculation procedures appraisal for necessary accruals, according to the relevant commercial and mining law)**
- **Determination of rock volumes as a basis for royalty declaration various companies (Evaluation of produced volumes according to the site measuring/ allowances, checking delivery notes, evaluation of royalties)**
- **Mining plan for Steinbruch Koschenberg, Basalt AG (Providing the mining plan being the basis of a overall operation plan to recover minerals for 75 years)**
- **1990 to 2006 Planning and construction management of upgrading plants (Technical and mining related planning for process engineering, realisation and commissioning of entirely new operating locations such as : Hardrock quarry and plant Seifersdorf, Limestoneplant Gomar, asphalt blending plant Gera, gravel plant Meitzendorf, asphalt blending plant Hohenölsen and Gera, railway loading system Kemna Unterberg, Rotim, Amsterdam Harbour)**
- **Completing and co-ordinating procedures for official approval of plans according to the German legislations BImSchG and BBergG**
- **Due Diligence of operating companies national and international (management)
Appraisal of: deposits, technical equipment, machinery, process engineering technologies, operating costs, balance sheet, profit & loss statements, location aspects, market analysis and repositioning for:

(e.g. 2004 Gräfenhain; 2003 Veschlapy (CZ); 2002 Karlsham (Sweden); 2002 Deutsche Asphalt (Flecht-ingen, Sächsische Quarzporphyrwerke 18 operations); 2003 Zapadokamen (13 operations) in the Czech**

Republic; 2003 Deutsche Asphalt Poland; 2005 NNG Plant Friedewald; 2002 Waste Deposit Seifersdorf; 2002 Waste Deposit Gera; 2003 Waste Deposit Mainhausen; 2005 NCC Poland (3 quarries); 2006 Tarmac Poland, production facility „Graniczna“; 2006 Tarmac, hard rock processing plant Wiesnowka at Poland; 2006 Baustoffbetriebe Sachsen, Hartmannsdorf; 2006 Hard rock deposit Sora Schumann Kies GmbH; 2006 limestone quarry and deposit DBF Baustoffe; 2006 Hartsteinwerke Burgk; 2005 to 2006 KSS Swierki, Poland; 2006 granit quarry Milas, Ukraine; 2006 12 Asphalt plants MKW, Kirchner, Strabag, MHI, 10 hard rock deposits Russia, Area St. Petersburg,

- Examination of the legal approval environment for existing operations according to BBergG und BlmschG, Kieswerke Nordhausen (Inspecting the completeness and integrity of approvals in respect to the existing environmental conditions of an operating location)
- 2003 Market study raw material, asphalt and concrete Poland
- 2003 Market study raw material, asphalt and concrete Germany
- 2003 Market study raw material, asphalt and concrete Hungary
- 2003 Market study raw material, asphalt and concrete Czech Republic
- 2003 Market study raw material , asphalt and concrete Baltic Sea area
- 2004 Market study raw material , asphalt and concrete Rumania
- 2005 Market study copper and molybdenum World
- 2006 Market study raw material, asphalt and concrete Ukraine

- **Mitigation between large industrial mine and local small miners; metallurgical test work and flow-sheet development for a primary gold ore from Nicaragua**
- **Metallurgical test-work and flow-sheet development for primary and secondary tantalite mines. Co-operation project between international mining company and local small miners in Namibia. GTZ**
- **Plant design and preparation of tendering documents for two tailings re-processing plants for hematite and magnetite ore in Iran. MME**
- **Environment protection and improvement of production in small scale gold mining in Colombia. BGR**
- **Flow-sheet development, pilot plant layout and operation, industrial size plant layout and commissioning to recover alluvial gold as by-product in a sand and gravel mine. MSW/Tarmac. Germany**
- **Flow-sheet development, plant design and commissioning of a recycling plant for radioactive contaminated building rubble. BMBF, Germany**
- **Technical Consulting for Global Mercury Project (Gold Mining and Environment) in Laos, Zimbabwe and Sudan. UNIDO**

MANAGEMENT - CONTACT

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Core Competences:

- Mine Management
 - Surface Mining
 - Mine Planning
 - Mining Machinery
 - Small Scale Mining
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- Mineral Economics
 - Sand, Gravel and Aggregates
 - Minerals Processing
 - Management and Organization
 - Cost Optimization
 - Surface Mining
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- Mineral Processing
 - Coking Technology
 - Briquetting Technology
 - Coal Liquefaction
 - Small Scale Mining



How can we provide our support to you?