

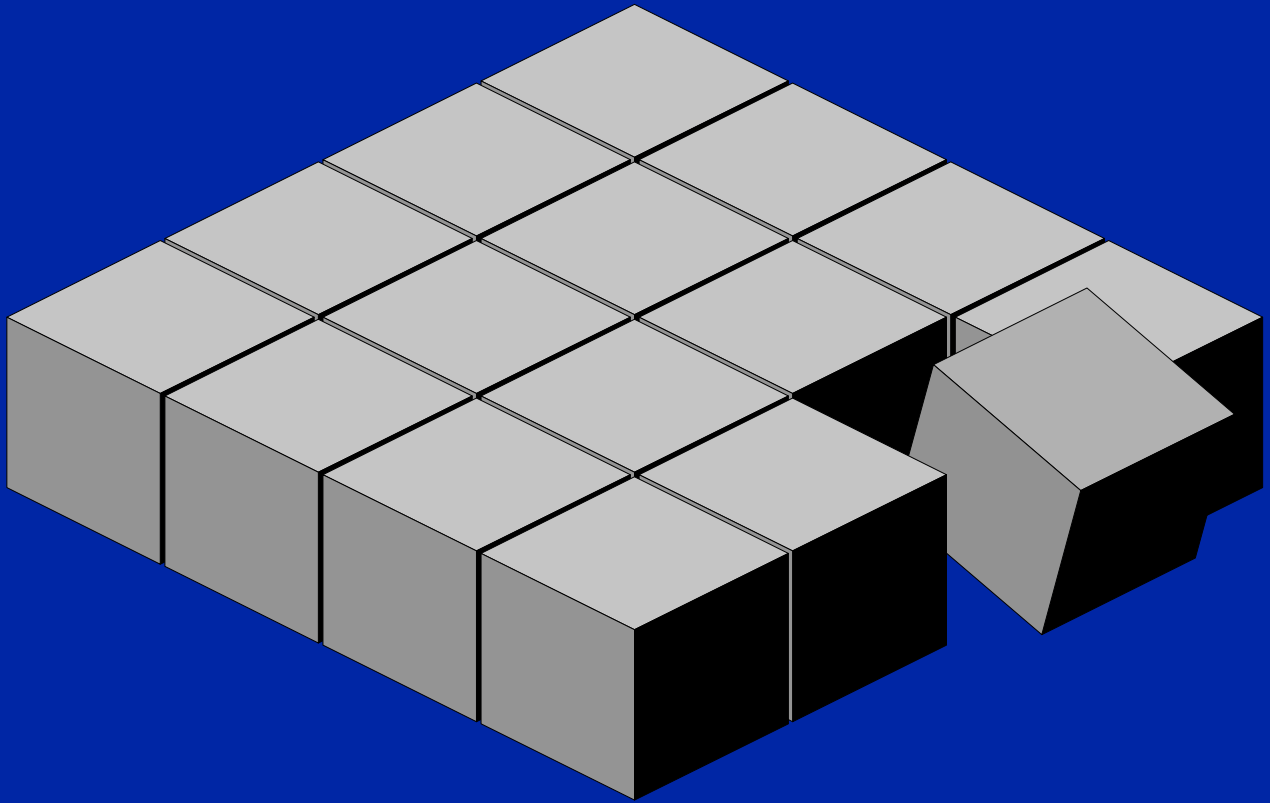
# CARTS CONSULT

*CUSTOM  
SOLUTIONS  
To  
TECHNICAL  
CHALLENGES*

● CHEMISTRY ● METALLURGY ● MATERIAL CONVERSION ●

- ▶ MANAGEMENT OF TECHNICAL PROJECTS (INTERNATIONAL)
- ▶ TECHNICAL SOLUTIONS TO SPECIFIC PROBLEMS
- ▶ OPTIMIZATION OF MANUFACTURING PROCESSES

**CRTS**



WE SOLVE YOUR PROBLEMS



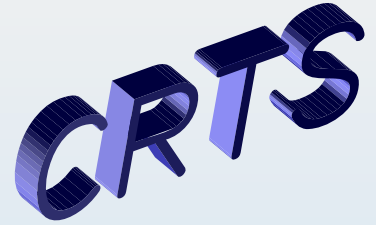
*COMPETENT*

*CREATIVE*

*FLEXIBLE*

*WORLDWIDE*

# EXAMPLES OF ACCOMPLISHMENTS



## TECHNICAL PROJECT-COORDINATION

- TECHNICAL PART OF NEW JOINT-VENTURE IN SHENYANG, CHINA
- CENTRAL COORDINATION OF DEVELOPMENT ACTIVITIES FOR EUROPE
- CONSOLIDATION OF LEAD AND LEAD ALLOYS FOR 15 EUROPEAN LOCATIONS
- RE-DESIGN- AND TRANSFERS OF PRODUCTS (INTERNATIONALLY)
- REORGANIZATION AND MODERNIZATION OF CHEMICAL LABORATORIES

## PROCESS OPTIMIZATIONS / NEW PROCESSES

- AUTOMATION OF MANUAL PRODUCTION STEPS
- OPTIMIZATION OF LEAD OXIDE REACTORS (BARTON)
- OPTIMIZATION OF LEAD MELTING POT OPERATION AND RECYCLING
- NEW PROCESSES (INTEGRATED STEPS)
  - AUTOMATIC INJECTION OF POLYPROPYLENE (PP) IN BATTERY POLES
  - CHEM. COATING OF BATTERY POLES
  - HOT MELT GLUE APPLICATION FOR 2V-CELLS
  - CONTINUOUS CASTING OF LEAD GRIDS
  - HOMOGENATION OF EPOXY GLUE COMPONENTS
  - PRODUCTION OF MULTIPLE CHAMBER DEGASSING VENTS
  - DRY COMPACTING OF GAS INFLATOR POWDERS

## NEW PRODUCTS /

### PRODUCT MODIFICATIONS ACCORDING SPECIAL REQUIREMENTS

- MODIFICATIONS FOR EXTREME VIBRATION RESISTANCE\*
- NEW GEL-BATTERY FOR SPECIAL APPLICATION
- NEW GAS INFLATOR FUELS WITH VERY LOW DUST EMISSION\*
- NEW THERMALLY STABLE AUTO-IGNITION POWDERS\*
- NEW COATED AUXILIARY IGNITION FUEL ACC. MIL-SPEC
- NEW TOP PURITY PRECURSOR FOR III/V-SEMICONDUCTORS

\* = ACTIVE PATENTS / PAT. PENDING

# INDUSTRY EXPERTISE

BRANCHES OF SUCCESSFULLY CONDUCTED PROJECTS

## AUTOMOTIVE INDUSTRY

- > DEVELOPMENT OF GAS INFLATORS FOR AIRBAGS
- > PYROTECHNICAL COMPONENTS

## BATTERY INDUSTRY

- > LEAD-ACID BATTERIES IN GEL TECHNOLOGY
- > CLASSIC VENTED LEAD-ACID BATTERIES

## SEMICONDUCTOR INDUSTRY

- > MANUFACTURING OF HIGH PURITY PRECURSORS

## FOOD INDUSTRY

- > PROCESS DEVELOPMENT FOR NEW MEAT SPICES

## CRTS CONSULT

CHRISTIAN RECKER TECHNICAL SOLUTIONS CONSULTING

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