



A PARTNER TO RELY ON
CNIM INDUSTRIAL SOLUTIONS CHINA



CNIM GROUP

Innovative industrial leader

CNIM GROUP

A WORLDWIDE INDUSTRIAL ACTOR



Answering sovereignty-related issues and priorities of States and large clients, public or private firms

- ▲ French OEM and industrial engineering contractor, with strong thermal and mechanical expertise
- ▲ Family group with an international footprint
- ▲ Partnership-based & project approach

TACKLING KEY CHALLENGES OF OUR WORLD

ENVIRONMENT & ENERGY



**Produce cleaner
& more competitive energy**
Limit environmental impact

HIGH REQUIREMENTS INDUSTRIES



Innovate
To meet up
industrial challenges

TACKLING KEY CHALLENGES OF OUR WORLD

ENVIRONMENT & ENERGY



Turnkey plants, OEM approach, proprietary technologies

- ▲ Waste Treatment Plants
- ▲ Concentrated solar power plants
- ▲ Flue gas and ash treatment systems

HIGH REQUIREMENTS INDUSTRIES



High added-value turnkey equipment & large systems

- ▲ Defense – Naval & Land Forces
- ▲ Nuclear – Power plant & research
- ▲ Industries with high requirements

ENIM
CHINA



CNIM INDUSTRIAL SOLUTIONS CHINA

The Chinese subsidiary of CNIM Group

A STORY STARTING WITH HEAVY DUTY ESCALATORS



CNIM GROUP'S CHALLENGE IN THE 2000's

Address the Asian market with one of its key products: top quality & heavy duty escalators compliant with high safety requirements



TOP QUALITY FRENCH INDUSTRIAL COMPANY IN CHINA



2005 Creation
100% CNIM company

40,000 m² owned land
20,000 m² workshops
150 employees
30% engineers

360° services
Design to maintenance



ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007

PROVIDING SOLUTIONS TO DEMANDING INDUSTRIES

A few example of our clients' sectors



Nuclear



Automotive



Heavy public transport



Process industry



Food industry



Public health

...



OUR DNA

Reliability

A PARTNER TO RELY ON

ENIM
CHINA

- Project Management
- Turnkey Solutions
- IP Protection
- Service & maintenance
- High Quality

CNIM INDUSTRIAL SOLUTIONS CHINA, A PARTNER TO RELY ON

WHOLE PROCESS PROJECT MANAGEMENT

We are self-sufficient & reliable



Project management is part of CNIM GROUP's DNA



Delivering the best technical and economical solution



Adapting procedures to the complexity of the project



Managing & auditing our supply chain

CNIM INDUSTRIAL SOLUTIONS CHINA, A PARTNER TO RELY ON

TURNKEY SOLUTIONS, FROM DESIGN TO MAINTENANCE

We integrated the whole value chain



Design
& Calculation



Local Sourcing
& Manufacturing



Tests
& Quality Controls



Delivery
& Commissioning



On-site Assembly
& Maintenance

CNIM INDUSTRIAL SOLUTIONS CHINA, A PARTNER TO RELY ON

WE PROTECT YOUR INTELLECTUAL PROPERTY

We set up tailored processes and offer CNIM Group warranty



CNIM China's servers are located in France



Strict authorizations to documents clearance & staff ability to work on sensible projects



NDA
For our customers
For our employees



CNIM Group offers the highest warranty to IP protection

CNIM INDUSTRIAL SOLUTIONS CHINA, A PARTNER TO RELY ON

SERVICES & MAINTENANCE CAPABILITIES

We support effectively our customers throughout the life cycle of their projects



Worldwide deliveries
> Europe, Canada, Australia,
Asia



Temporary storage solutions



A-level company at the
customs
> Fast delivery & reactivity

CNIM INDUSTRIAL SOLUTIONS CHINA, A PARTNER TO RELY ON

HIGH QUALITY ASSURANCE & WARRANTY

We provide quality solutions



Process controls & records

Manufacturing standards
(CODAP, ASME, RCCM...)



Controls
& NDT qualified
personnel



3rd party control
> Bureau Veritas, TUV



Certifications
> ISO, OHSAS
> PT & UT level 2



From 1 to 25 years
of warranty for our
products



INDUSTRIAL FACILITIES

20,000 M² INDUSTRIAL FACILITIES

| | |
|-------------------|---|
| Cranes | 16 sets from 5 tons to 16 tons |
| Welding | SMAW / GTAW / GMAW / Aluminum Alloy; 80mm thick or customized |
| Machining | Large CNC milling machine 2 NEW CNC milling & lathing machines in 2019 |
| Bending | 4.2m * m, 20mm thickness |
| Cutting | Plasma cutting (30mm) |
| Assembly | of electro-mechanical systems. Fully according to specification. |
| Inspection | Full dimensions control NDT, PT, UT, etc. |
| Testing | Mock-up, Run-in, Simulation |
| Record | Full record from material in to process to Finished Goods out |
| Electrical PLC | Program, Sensing and Controlling Programming & Debugging |



TURNKEY SOLUTIONS

Industrial conveyors
Electromechanical systems
Welded structures



Strong industrial skills

Customized solutions
Electro-mechanics engineering
In-house manufacturing & tests
High quality & critical welding
Service & maintenance

Meeting the **highest requirements** of
RELIABILITY & SAFETY on global scale



CNIM INDUSTRIAL SOLUTIONS CHINA – TURNKEY SOLUTIONS

WORLD-CLASS STANDARDS 100% MADE IN CHINA

From your needs to creative turnkey industrial solutions



INDUSTRIAL CONVEYORS

- Customized solutions
- Heavy payload, intensive use
- Highest level safety requirements
- 100% Reliability



ELECTRO-MECHANICAL SYSTEMS

- Product approach
- Design localization
- Medium-sized production volumes
- Strong partnership with CNIM Group



WELDED STRUCTURES

- Cost efficient solutions
- Short delivery times
- Inox, Duplex material expertise
- High quality welding

INDUSTRIAL CONVEYORS



Key points

100% Reliable & safe solution

100% Creative & customized solution

13 years experience in heavy duty escalators

360° services Design to on-site maintenance

Key projects



Transport >1000 Heavy duty escalators



Nuclear Valinox production line



Automotive Press line conveyor

Aluminium industry



Heavy & hot material chain conveyor

ELECTRO-MECHANICAL SYSTEMS



Key points

World-class standards 100% made in China

Demanding manufacturing codes & standards

100% IP Protection

Technology transfer within CNIM Group

Medium-sized production volumes, up to 500 units

Key projects

Public health

 Medical waste management system

Nuclear

 Spent fuel transfer systems – Taishan EPR

 *Nuclear equipment*

Process Industry

 Industrial ovens

WELDED STRUCTURES



Key points

Best cost solutions

Strong welding expertise & NDT controls

In-house manufacturing

Up to large sized production volumes / 2k units

Up to date CNC machines

Key projects

Nuclear

 Silencers and sump filters

 Fuel enrichment stations

Process industry

 High precision frames

 Heat pumps

Other Industry

 Panel bridge

A man in a dark suit is seen from the back, looking out over a vibrant city skyline at night. The city lights are reflected in the glass facades of the buildings. A large, stylized, upward-pointing arrow graphic is overlaid on the right side of the image, composed of several white and light blue chevron shapes. The overall color palette is dominated by blues and teals, with the warm lights of the city providing contrast.

We support your business growth

ENIM
CHINA

A partner to rely on



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REFERENCES

INDUSTRIAL CONVEYORS

HEAVY DUTY ESCALATORS

Providing the world-class products



1 .



2 .



3 .



4 .



5 .

Customized solutions

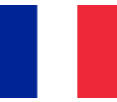
Heavy payload, intensive use

Highest level safety requirements

Reliability

- ▲ Production up to 200 esc/year
- ▲ 100% escalators pre-assembled and tested in-house
- ▲ On-site installation and final testing
- ▲ 100% made in China, from qualified suppliers
- ▲ Worldwide aftersales services

1. Mid-levels_Hong-Kong
2. Budapest metro
3. Singapore metro – 395 in operation
4. Guangzhou metro
5. Hong Kong airport



CNIM INDUSTRIAL SOLUTIONS CHINA – REFERENCE – INDUSTRIAL CONVEYORS

VALINOX NUCLEAR TUBE PRODUCTION LINE



- ▲ **Stainless steel** production line of the Valinox Nansha factory
- ▲ Additional equipment for **high precision & safe handling** of the tubes
- ▲ **Design localization**, sourcing, manufacturing, tooling development, control cabinet, site installation, training, commissioning



CNIM INDUSTRIAL SOLUTIONS CHINA – REFERENCE – INDUSTRIAL CONVEYORS AUTOMOTIVE PRESSING LINE



- ▲ Customized design
 - / 400°C resistance
 - / Minimum noise
- ▲ Stainless steel line





HEAVY & HOT MATERIAL CHAIN CONVEYORS

- ▲ Calculations for heavy falling Aluminum Equipment
- ▲ Design, Calculation, Sourcing, Manufacturing, Testing, Assembly





REFERENCES

ELECTRO-MECHANICAL SYSTEMS



CNIM INDUSTRIAL SOLUTIONS CHINA – REFERENCE – ELECTROMECHANICAL SYSTEMS

MEDICAL WASTE MANAGEMENT SYSTEM



- ▲ Automated System for hospital medical waste sterilization and shredding for hospitals
- ▲ Based on BERTIN Design (Subsidiary of CNIM Group)
- ▲ **For domestic market**
 - ／ Local sourcing, in-house manufacturing, Site installation, After sales
- ▲ 200 units / year



SPENT FUEL TRANSFER SYSTEMS



- ▲ Covering the Sourcing, Manufacturing and Assembly
- ▲ **Knowledge & experience sharing from CNIM Group**
- ▲ **100 tons complex system** gathering expertise under AREVA requirements:
 - / Radiologic protection
 - / Carbon & Stainless structural welding and Pressure piping
 - / Mechanical assemblies
 - / Electrical wiring, Programming and Testing
 - / Pneumatics
- ▲ **Additional modules**
 - / Stainless piping and control modules
 - / Lid container handling system
 - / Remotely operated pivoting rail



INDUSTRIAL OVENS



- ▲ Process systems with conveyor belt, heating & ventilation system
- ▲ Transfer of historical skills from escalator business on a new product
 - ／ Welded structure, Dynamic parts, Command control / I&C
- ▲ Tight schedule
- ▲ English design, adapted to Chinese standards



REFERENCES

WELDED STRUCTURES



SILENCERS & SUMP FILTERS FOR NUCLEAR POWER PLANTS

Both product are based on Bertin design (subsidiary of CNIM)

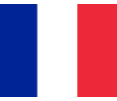
Silencers

- ▲ 18 silencers for Chinese power plants
- ▲ Requiring **specific manufacturing** processes
 - ✓ Local Procurement
 - ✓ Carbon and stainless steel welding
 - ✓ Surface treatment (pickling, passivation, painting)

Sump filters

- ▲ Key system in NPP: filtration of debris coming from emergency cooling system of reactor building
- ▲ Stainless steel welding
- ▲ Site installation supervision





FUEL ENRICHMENT STATIONS CHASSIS FOR GBII PLANT



- ▲ **Qualified by Bureau Veritas**, regular inspections from AREVA
- ▲ **Nuclear documents** preparation
- ▲ Design study and digest
- ▲ Procurement in China & France
- ▲ Manufacturing (Preparation, welding, NDT, assembly)
- ▲ **Mastering critical outsourced processes** (heat treatment, machining, painting) driven by SQA
- ▲ Packing and transportation to France
- ▲ **Over 300 units** produced



HIGH PRECISION FRAMES



- ▲ Frames for foam-making machine
- ▲ Frames for high speed film production machine
- ▲ 30 to 70 units / year

- ▲ **Thick welding**
- ▲ **Precise** machining – 2019 investments from CNIM
- ▲ **Strict** NDT measurement
- ▲ Strict surface controls + importance of final look
- ▲ Very high quality requirements

- ▲ **Very tight delivery times**



HEAT PUMPS



- ▲ **Large complex** welded structure
- ▲ Based on CNIM Group Design

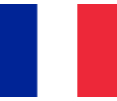
- ▲ **Duplex** tubes inside

- ✓ Advanced calculations on materials & temperatures
- ✓ Advanced process manufacturing

- ▲ **High leak-tightness** requirements

- ✓ New manufacturing technics
- ✓ Strict controls (Helium leak-test)





CNIM INDUSTRIAL SOLUTIONS CHINA – REFERENCE – WELDED STRUCTURES

BRIDGE PANELS



- ▲ Large production > **1500 units**
- ▲ **Worldwide** delivery
- ▲ Best cost solution

- ▲ Hot dip galvanized structure
- ▲ Dedicated production line & means

APPENDIXES

ENVIRONMENT & ENERGY - EXAMPLES



1

1/ Waste to Energy plant, Portsmouth, United Kingdom

2/ Waste sorting plant, Thiverval, France

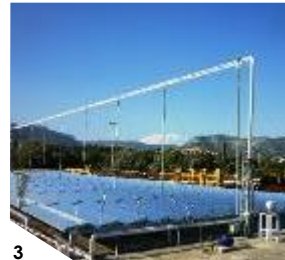


2



4

3/ Prototype of concentrated solar power plant, SUNCNIM



3

4/ LAB flue gas treatment system, Kara Noveren, Denmark



5

5/ Waste to Energy plant, Oxford, United Kingdom

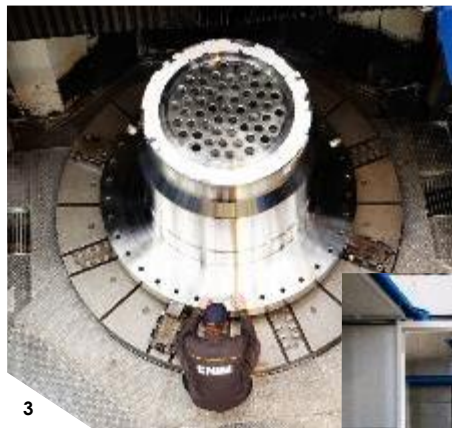
ADVANCED INDUSTRIAL SECTORS - EXAMPLES



1



2



3



5



4



6



7

1/ L-CAT®, Landing Catamaran

2/ Motorized Floating Bridge

3/ Nuclear pressure vessel

4/ Ariane launcher booster parts

5/ Superheater for O&G industry

6/ Test facility for ITER composite parts

7/ On-site installation of ITER large equipment