



A PARTNER TO RELY ON
CNIM INDUSTRIAL SYSTEM CHINA



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The Chinese subsidiary of CNIM Systèmes Industriels

A STORY STARTING WITH HEAVY DUTY ESCALATORS



CNIM'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



HIGH QUALITY FRENCH INDUSTRIAL COMPANY IN CHINA



2005 Creation
100% CNIM company

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

360° services
Design to maintenance



ISO 9001:2015
ISO 14001:2015
OHSAS 18001:2007
EN 1090 EXC4
ISO 3834

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

ENIM
CHINA

CNIM INDUSTRIAL SYSTEM 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 SYSTEM CHINA, A PARTNER TO RELY ON

WE PROTECT YOUR INTELLECTUAL PROPERTY

We set up tailored processes and offer CNIM Systèmes Industriels 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 offers the highest
warranty to IP
protection

CNIM INDUSTRIAL SYSTEM 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
to support our customers



AEO recognized company
at the customs
> Fast delivery & reactivity

CNIM INDUSTRIAL SYSTEM CHINA, A PARTNER TO RELY ON

HIGH QUALITY ASSURANCE & WARRANTY

We provide quality solutions



Dimensional inspection



3D handy scan



Controls & NDT



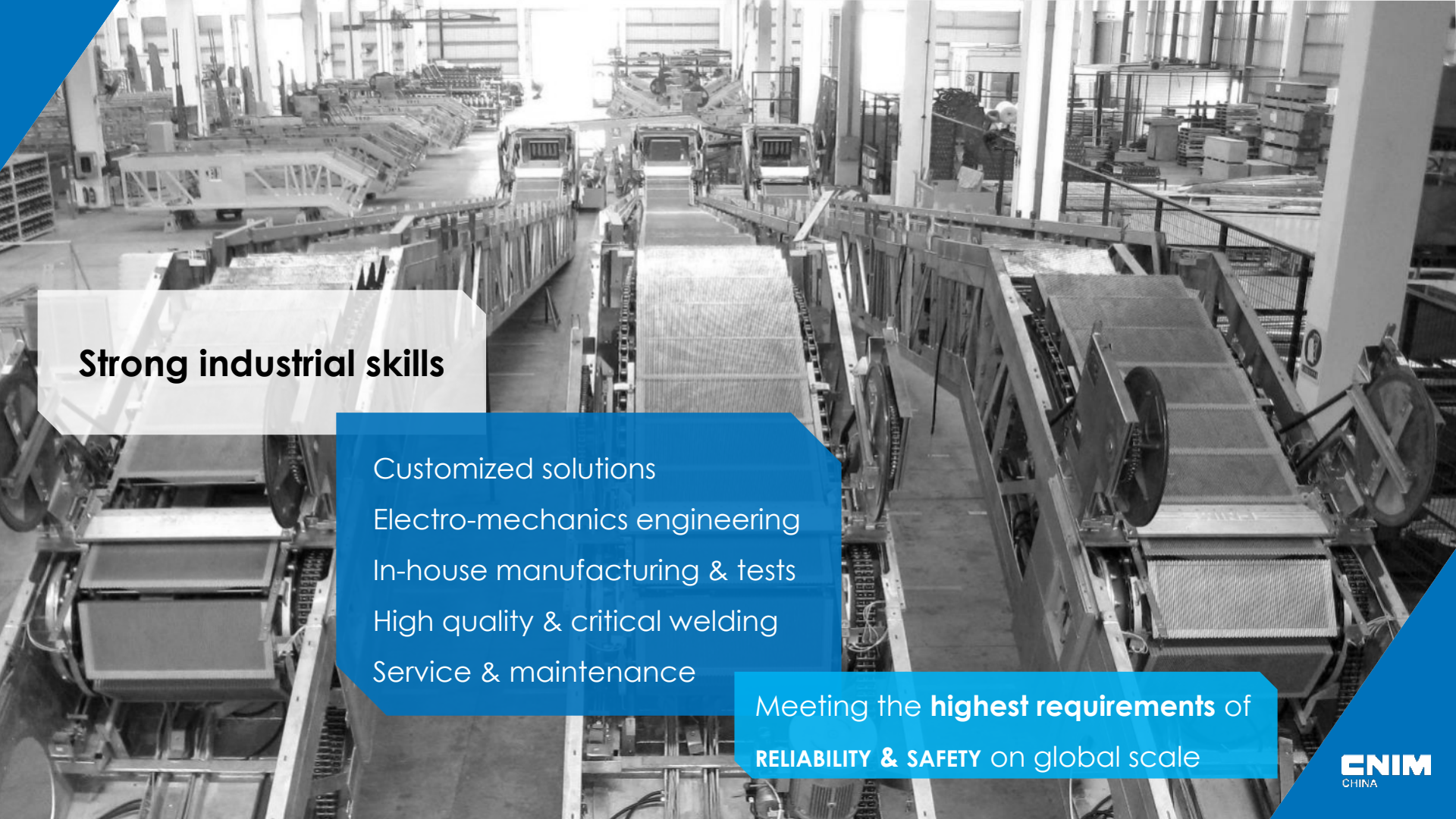
3rd party control
& Certifications
> Bureau Veritas, TUV
> ISO, OHSAS
> PT & UT level 2



From 1 to 25 years
of warranty for our
products



INDUSTRIAL FACILITIES




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

20,000 M² INDUSTRIAL FACILITIES



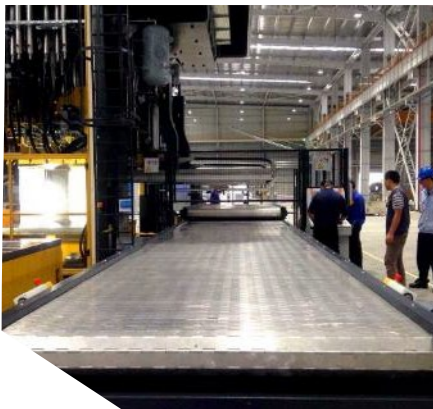
Cranes	16 sets from 5 tons to 16 tons
Welding	SMAW / GTAW / GMAW / Aluminum Alloy; 80mm thick or customized
Machining	Large CNC milling machine 2 small CNC milling & lathing machines
Rolling	Width 2.5, 30mm thickness
Bending	4.2m * m, 20mm thickness
Cutting	Plasma cutting (45mm)
Assembly	of electro-mechanical systems. Fully according to specification.
Inspection	Full dimensions control NDT, PT, UT, etc.
Testing	Mock-up, Run-in, Simulation
Electrical	Program, Instrumentation and Control
PLC	Programming & Debugging



CNIM INDUSTRIAL SYSTEM CHINA – TURNKEY SOLUTIONS

WORLD-CLASS STANDARDS 100% MADE IN CHINA

From your needs to creative turnkey industrial solutions



MATERIAL HANDLING EQUIPMENT

- 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



WELDED STRUCTURES

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



REFERENCES

MATERIAL HANDLING EQUIPMENT

MATERIAL HANDLING EQUIPMENT

HEAVY DUTY ESCALATORS

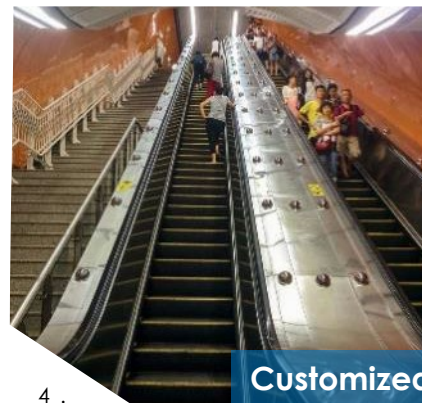
Providing the world-class products



1 .



2 .



4 .



5 .

Customized solutions

Heavy payload, intensive use

Highest level safety requirements

Reliability

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



3 .

- ▲ 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

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



MATERIAL HANDLING EQUIPMENT

AUTOMOTIVE PRESSING LINE



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





MATERIAL HANDLING EQUIPMENT

HEAVY & HOT MATERIAL CHAIN CONVEYORS

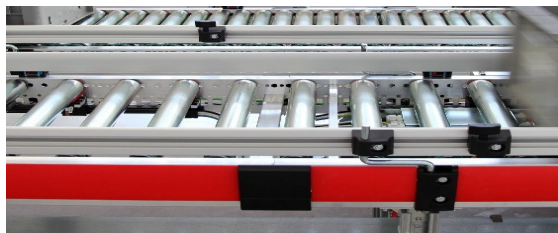
- ▲ Calculations for heavy falling Aluminum Equipment
- ▲ Design, Calculation, Sourcing, Manufacturing, Testing, Assembly





MATERIAL HANDLING EQUIPMENT

DYNAMIC SMART WAREHOUSE



Including

- / Stacker crane
- / Racks
- / Conveyor system
- / WMC & WMS
- / RFID

Advantage

- / Increase storage volume
- / Efficient due to automatic operation
- / Reduce labour intensity
- / Software to manage the inventory instead of done by man
- / Improve order fulfillment accuracy

CUSTOMIZED SMART CAR PARK SOLUTION



▲ Advantage

- / Maximize the parking space
- / Automated process with easy operation
- / High efficiency
- / Safe and reliable
- / Turntable design on ground

▲ Tower type solution

- / Suitable for sedan and SUV parking
- / Typical application in buildings in city center

▲ Shuttle type solution

- / Suitable for sedan and SUV parking
- / Typical application in airports, transport stations, stadiums, hospitals

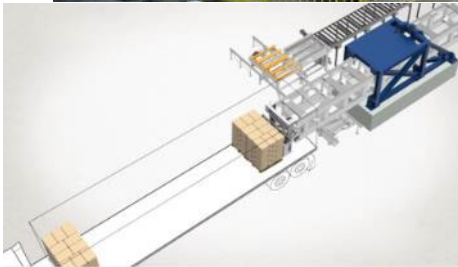


AUTOMATED TRUCK LOADING/UNLOADING



▲ Advantage

- / No need worker and forklift anymore.
- / More efficient than manual operation.
- / Minimize the truck loading/unloading time
- / Less goods damage and injury

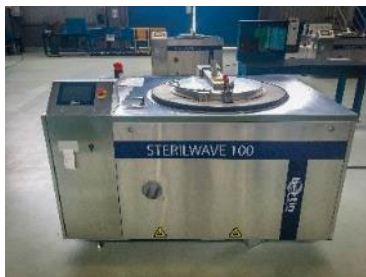




REFERENCES

ELECTROMECHANICAL SYSTEMS

MEDICAL WASTE MANAGEMENT SYSTEM



- ▲ Automated System for hospital medical waste sterilization and shredding
- ▲ Based on BERTIN Design (French company)
- ▲ **Design adaptation** to Chinese standard
 - ／ Local sourcing, in-house manufacturing, Site installation, After sales
- ▲ 200 units / year
- ▲ **Homologation for Chinese & Asian markets** following NFX30-503



SPENT FUEL TRANSFER SYSTEMS



- ▲ Covering the Sourcing, Manufacturing and Assembly
- ▲ **Knowledge & experience sharing from CNIM**
- ▲ **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



ELECTROMECHANICAL SYSTEMS

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



WELDED STRUCTURES

SILENCERS & SUMP FILTERS FOR NUCLEAR POWER PLANTS

Both product are based on Bertin design (French company)

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

WELDED STRUCTURES HEAT PUMPS



- ▲ **Large complex** welded structure
- ▲ Based on CNIM Systèmes Industriels Design

- ▲ **Duplex** tubes inside
 - / Advanced calculations on materials & temperatures
 - / Advanced process manufacturing
- ▲ High leak-tightness requirements
 - / New manufacturing technics
 - / Strict controls (Helium leak-test)



MARINE QUENCH



- ▲ Quench for merchant vessels motor exhaust
- ▲ Diam: 3.6m, Height: 2.6 m
- ▲ Cutting, Rolling and **Welding**
- ▲ **Strict** NDT measurement
- ▲ **Very special stainless steel** for marine environment (254SMo)
- ▲ **Very tight delivery times**, has to arrive at the dock before the vessels and be installed within a week

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**

WELDED STRUCTURES

BRIDGE PANELS

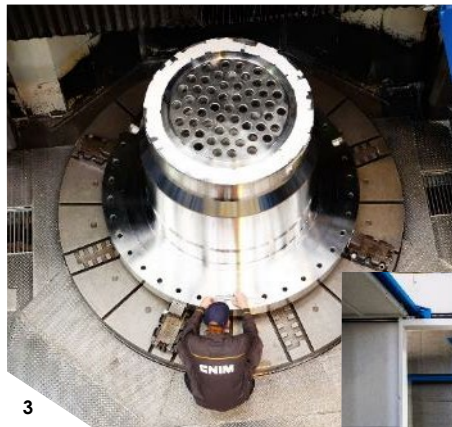


- ▲ Large production > **1500 units**
- ▲ **Worldwide** delivery
- ▲ Best cost solution
- ▲ Hot dip galvanised structure
- ▲ Dedicated production line & means

THANK YOU

APPENDIXES

ADVANCED INDUSTRIAL SECTORS - EXAMPLES



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