



MSD TECHNOLOGIES

SPACE TECH PARK, TOWER - B ,1051B , SECTOR-
49 , GURGAON, HARYANA, INDIA

WWW.MSDTECH.IN



COMPANY PROFILE

- MSD Technologies is an engineering service provider in the field of HVACR, COLD CHAIN & AUTOMOTIVE AIR-CONDITIONING Industries.
- MSD helps its customers to choose right technology to enhance their productivity and also help to minimize product cost.

MAIN ACTIVITIES : -

- SOLUTIONS
- TRAINING
- COUNSLTING



FOUNDER OVERVIEW

- Company founder Ajay Mehndiratta started MSD Technologies in 2002 with pioneering vision of “Bringing Industry and Technology Together
- More than 34 years of wide experience in HVAC and R industry
- Started his career with BRY-AIR (ASIA) PVT. Ltd., A flagship company under PAHWA group

EXPERIENCE REVOLVES AROUND:-

- New business development
- Business strategy
- Strategic partnerships
- International business.
- Global sourcing
- Market research
- Market management



SOLUTIONS

HVACR PRODUCTS SOFTWARE

MSD team of experts aims to provide thermal design software for **HVACR** industry to enhance productivity and efficiency

HVACR PRODUCT TESTING & CERTIFICATIONS

MSD helps manufacturers to achieve product certification of **HVACR products**

HEAT EXCHANGER MACHINERY

MSD helps its customers to choose the right machinery for the **Automotive, HVAC and power industry**

HVACR PRODUCT SOFTWARE

- Coils
- Air handling units
- Micro channel
- Shell & tube heat exchanger
- Radiator suite
- Shark (chiller)
- Fan coil selector
- Unit selector
- Heat pipe
- EHE and many more...

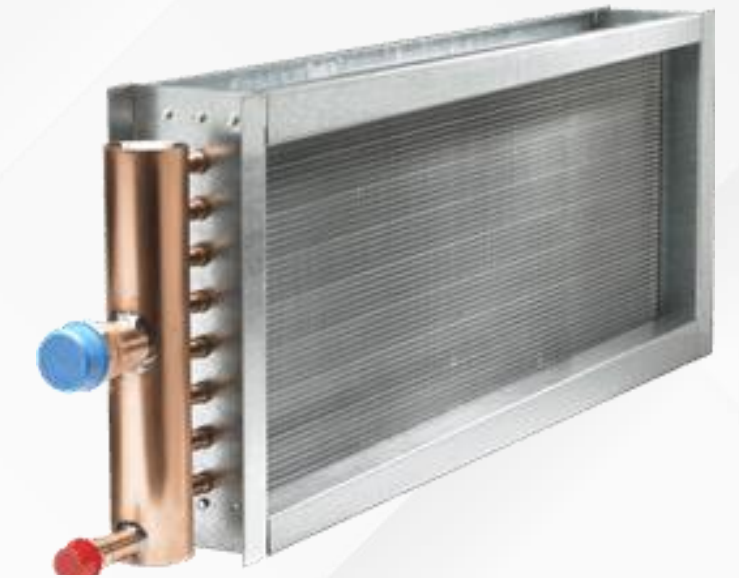
- **MSD TECHNOLOGIES** promotes Heat Transfer software developed by **UNILAB Srl**, which is widely used by many manufacturers of HVAC&R products worldwide
- **Trusted partner** for many leading domestic and overseas companies & installed hundreds of these software in India, Malaysia, Middle East, Australia & North America



Unilab Software

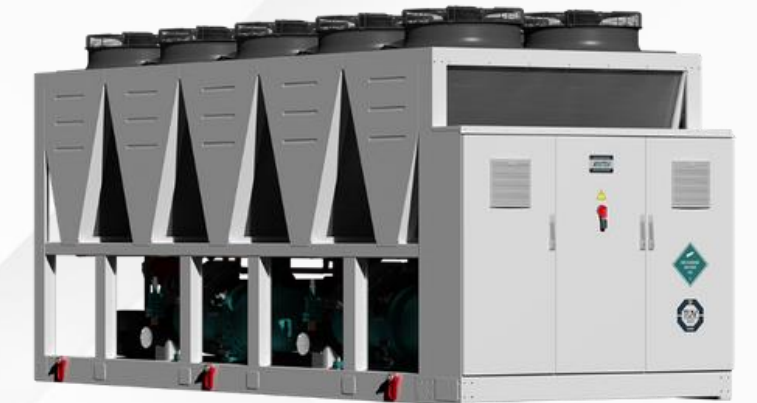
Finned Pack Heat Exchanger

- **Coils:** Verify, & Select Coils Heat Exchanger
- **Easy:** Create circuitry, Export metal sheet drawings
- **LT HT:** Simulates coils in series on air side, fed singly
- **Free cooling:** Simulating of a free cooling coil plus a condensing coil



Chillers – Air water & water-water (Comfort & process cooling)

- **Shark:** Desktop based simulation software for air water or water-water chillers.
- **X-Shark:** Desktop based selection software for Air water or Water-water chillers.
- **X-Shark** can be developed as Online selector according to your needs



Heat Pumps – Air Water & Water-Water

- **Heat Pumps:** Our new simulation software specially designed for heat pump manufacturers.
- **X-Shark:** Desktop based selection software for heat pumps manufactures.



Precision Air Conditioning / Close Control Units (Water & DX)

- **Shark:** Desktop based simulation software for Precision Air Conditioning.
- **X-Shark:** Desktop based selection software for Precision Air Conditioning.
- **X-Shark** can be developed as Online selector according to your needs



Air Conditioning for Comfort Applications

- **Shark:** Desktop based simulation software for Air Conditioners.
- **X-Shark:** Desktop based selection software for Air Conditioners.
- **X-Shark** can be developed as Online selector according to your needs



ROOFTOP Units

- **Rooftop:** Desktop based simulation software for rooftop units.
- **X-Shark for ROOFTOP UNITS:** Desktop based selection software for Rooftop.



Plate Heat Exchanger

- **PHE:** Desktop based software allowing the design, rating and selection of Gasketed and Brazed PHE.
- PHE Select: Desktop based commercial selector
- PHE WEB: Online selector for Gasketed and Brazed PHE.

Shell & Tube Heat Exchangers

- **SHELL:** Desktop based design, rating, selection software for shell & Tube.
- **SHELL SELECT:** Desktop based commercial selector for shell & tube.
- **SHELL SELECT** can be developed as an online tool.

Tube in Tube Heat Exchanger

- **TUBE IN TUBE:** Desktop based design, rating, selection software for tube in tube heat exchangers.

Plate & Shell Heat Exchanger

- **Plate & Shell:** Desktop based design & rating software for plate & shell/Disk & Shell heat exchanger



Pillow Plate banks Or Bundles

- **PCOIL:** Design and rate Pillow plate banks according to different applications, namely energy recovery, falling film chiller, air heater & air cooler



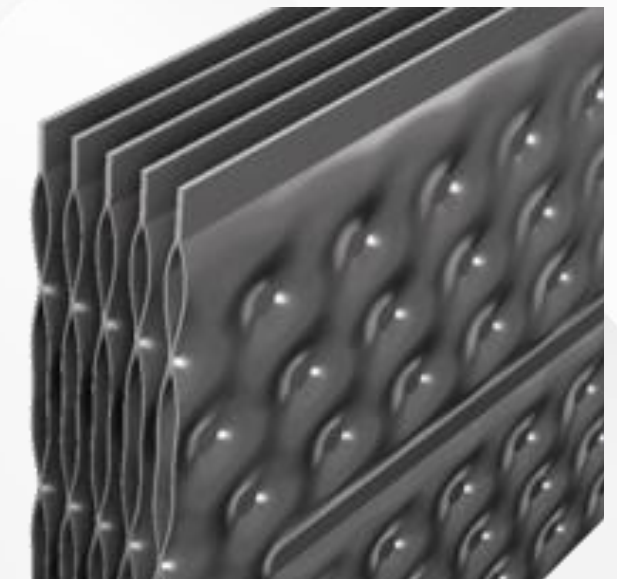
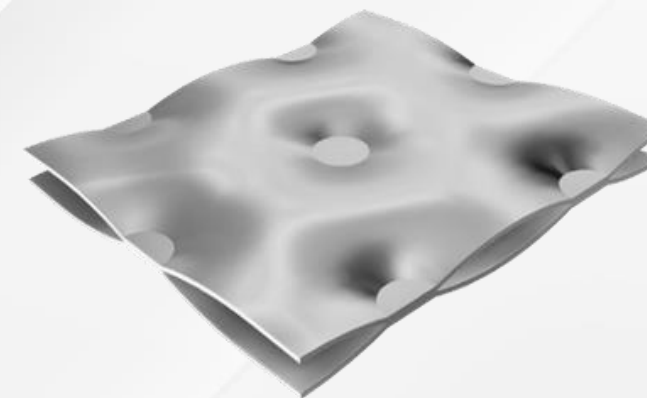
Bulk milk cooling tanks

- **BMC:** Batch application for milk cooling, allowing the calculation of Bulk Milk Tank Coolers using the pillow plate Heat exchanger typology, in DX & Glycol



Pillow Plate Heat Exchanger Inside a Tank

- **PILLOW:** Batch calculation of Pillow plate heat exchangers inside a circular or rectangular tank



GAS Coolers

- **Trans critical Gas Cooler:** Trans critical Calculation of CO2 Gas Coolers



Unit Cooler, Air Cooler, Dry Coolers, Remote Condenser

- **Unit Selector Hybrid:** Desktop based selection software for ventilation Units



Fan Coil Unit

- **Fan Coil Selector:** Desktop based selection software for FCU.
- **Fan Coil WEB:** our standard online selector for FCU, which can be customized according to your needs



Air Handling Unit

- **Smart-Air:** Desktop based selection & quotation software for AHUs. Additional modules include Compact AHUs, Custom AHUs, and creation of the drawings to start the production design of the Unit.
- Smart Air is the best tool to certify your AHU with



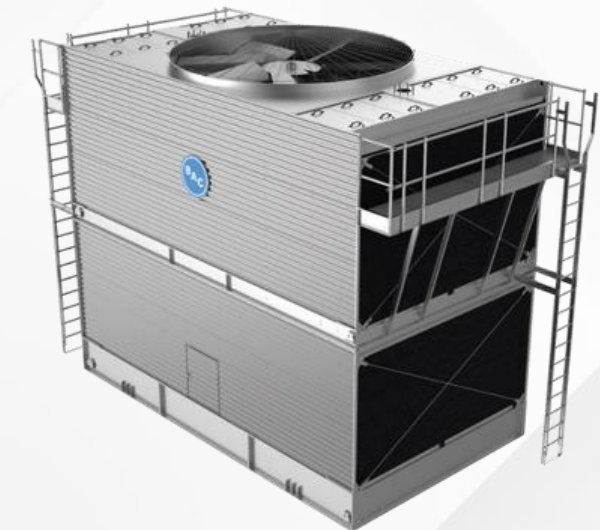
Wrap-Around or Mono Flat heat Pipe

- **DHP:** Desktop based selection software for the selection and rating of wrap-around or monoflat dehumidifier heat pipe exchangers



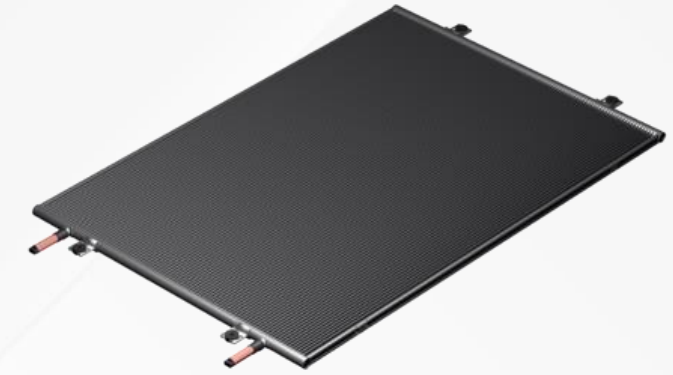
Closed Circuit Cooling Tower

- **Tower Suite Evaporative Condenser & Evaporative Cooling:** Desktop based software allowing the rating of **evaporative condenser** and **evaporative cooling tower**



Microchannel Heat Exchanger

- **Microchannel:** Desktop based software allowing the rating of Microchannel condenser and Microchannel Evaporators



Automotive Radiators, Compact Heat Exchangers

- **Automotive Suite:** Desktop based rating software with dedicated modules for plate & bar, Single and Multiport tube radiators, Oil Coolers, Charge air Coolers, Combi Coolers, Intercoolers & Brass Copper Radiators



Cold Room

- **Cold Storage:** Desktop based software allowing the calculation of the thermal capacity of a cold storage



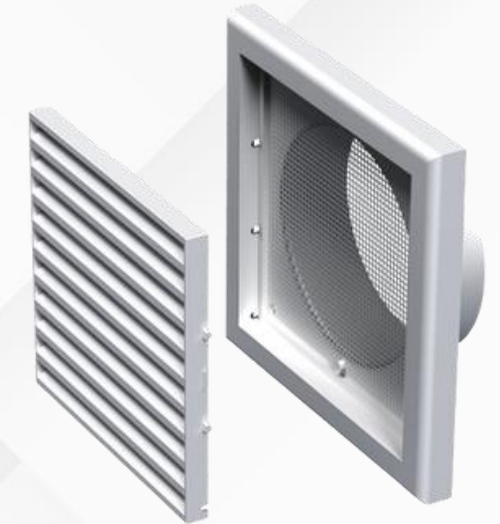
Controlled Mechanical Ventilation (CMV)

- **BREEZE:** Online quotation of the controlled mechanical ventilation system. Possibility to create a basic quote with part list and prices, or an advanced quotation with floor plan image loading. Possibility of use by your sales network, designer, loyal customers



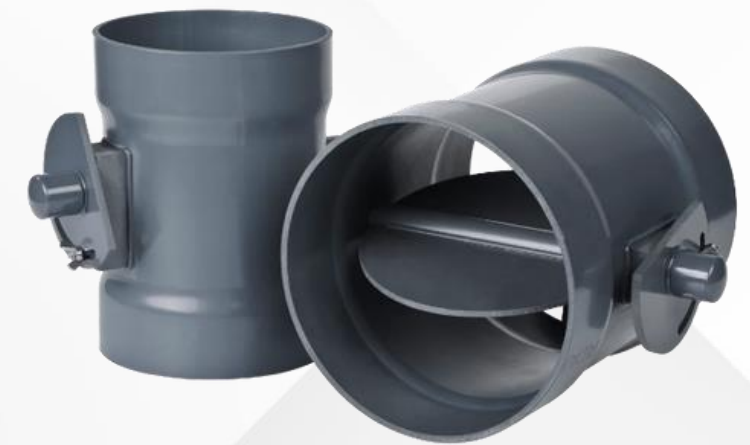
Diffuser, Grilles

- **Online Diffuser Selector:** Our specialized online software for the selection of air diffuser and grilles



Fire & Smokes Dampers

- **Online Fire Dampers Selector:** Our specialized online tool for the selection of fire & smoke dampers



CERTIFICATION AND TESTING

- AHRI
- EUROVENT
- AMCA
- UL
- INTERTEK
- TUV

- MSD Technologies also helps its customers to achieve product certification in accordance to the performance rating of HVACR products.
- These tests are done independently by third parties



What is Product Certification?

- **Product certification** is the process of certifying that a certain product has passed performance tests and quality assurance tests, and meets qualification criteria stipulated in contracts, regulations, or specifications

Why Certification?

- Certification program helps you, as equipment and component manufacturers
- Sell more products
- Win bids
- Differentiate yourselves from competitors
- Comply with government requirements



KEY CERTIFICATION PROGRAMS

- Forced circulation air Cooling & air heating coils
- Room fan- coil air conditioners
- Variable air volume terminals - fan powered, modulating diffuser, non-fan powered
- Air handling unit (AHU)
- chilled beams
- Air filter
- Variable refrigerant flow (VRF)
- axial and centrifugal fans
- Air curtains , dampers louvers & many more ...



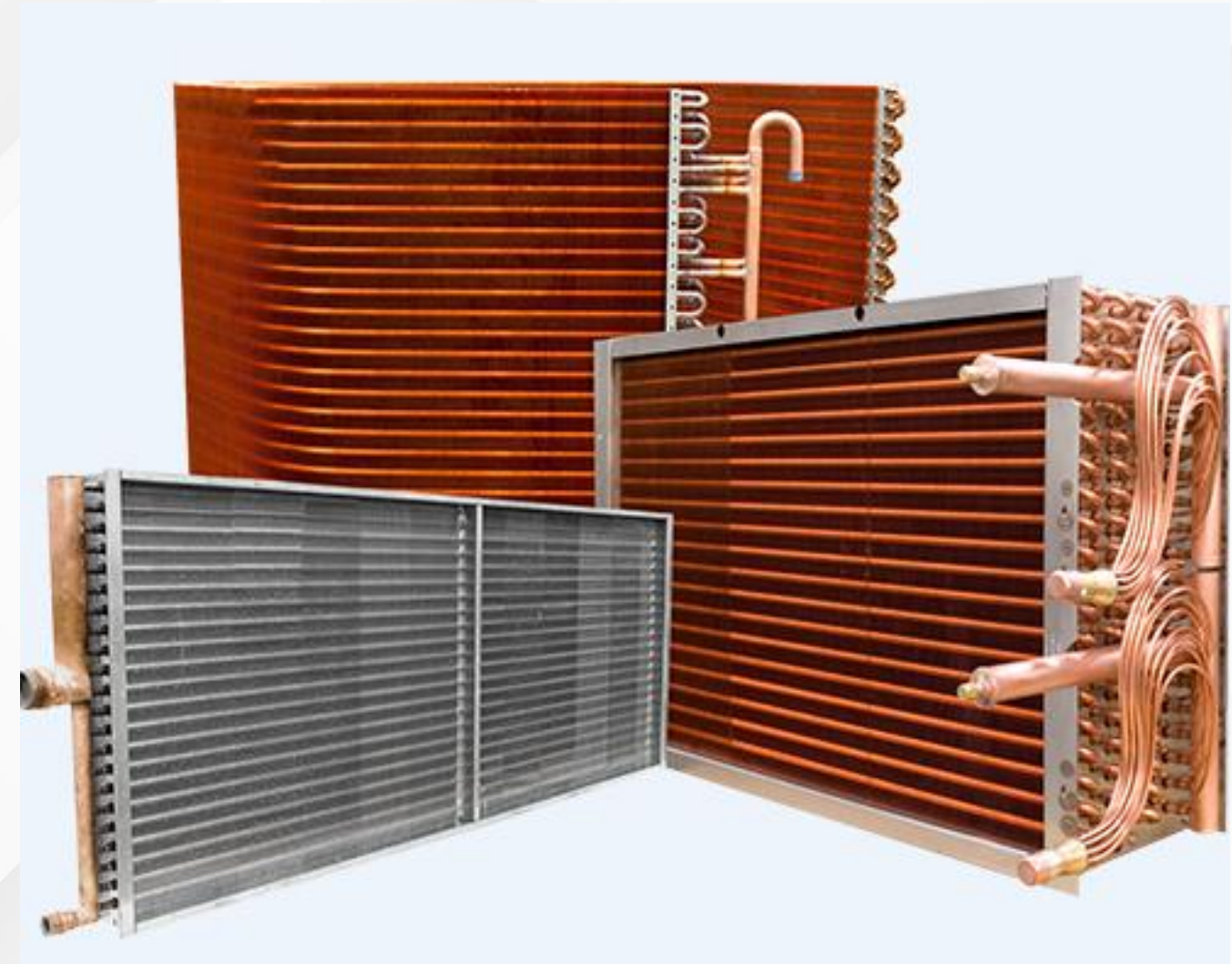
TRAINING MODULES

- Introduction to HVAC
- Basic of Refrigeration System
- Properties of Air and Moisture
- Heat load Calculation
- Air handling Units
- Heat Exchanger / Coil
- Fans, Motors & Drives
- Noise and Vibration
- Relevant codes and Standards
- Introduction of HVAC Software



TRAINING FOR COIL MANUFACTURER

- Introduction to HVAC
- Properties of air and moisture
- Coil heat exchanger
- Intro to coil software



TRAINING FOR AHU MANUFACTURER

- Introduction To HVAC
- Properties Of Air And Moisture
- Coil Heat Exchanger
- Intro To Coil Software
- Fan & Blowers
- Air Filter
- Air Handling Units
- Intro To Ahu Software



CONSULTING

- MSD Technologies operates as an independent consulting organization that helps the buyer & seller in the field of heat transfer & Air Management
- Our team of expert understand first the complete concept of the buyer, then draw complete technical specification of the job & finally select the suitable companies that can fulfil these requirements

MSD TECHNOLOGIES CONSULTANCY SERVICES INCLUDE :-

- Designing of the components like that heat exchangers
- Witness testing of HVAC products as third party consultants
- Offers a set of manual calculations
- Preparing the reports
- New product development
- Technology upgradation
- Working on problematic areas
- International tie-ups / overseas business
- Other HVAC solutions



CONSULTING

- We helps **Overseas manufacturers** facilitate their entry into the Indian HVAC market smoother and cost affective especially for HVAC products like **Coils, AHU, Filters, Heat Exchangers** etc

WE CAN ALSO SUPPORT WITH: -

- Market surveys
- Accompany their personnel for Indian market assessment
- Establishing a represented office
- Open your own office with minimum overheads
- Introduction to consultants for product approval
- Assistance in setting up distribution network
- Enable selection of trained manpower

MACHINES

- **FIN MILL**
- **CORE BUILD SYSTEM**
- **TUBE MILL**



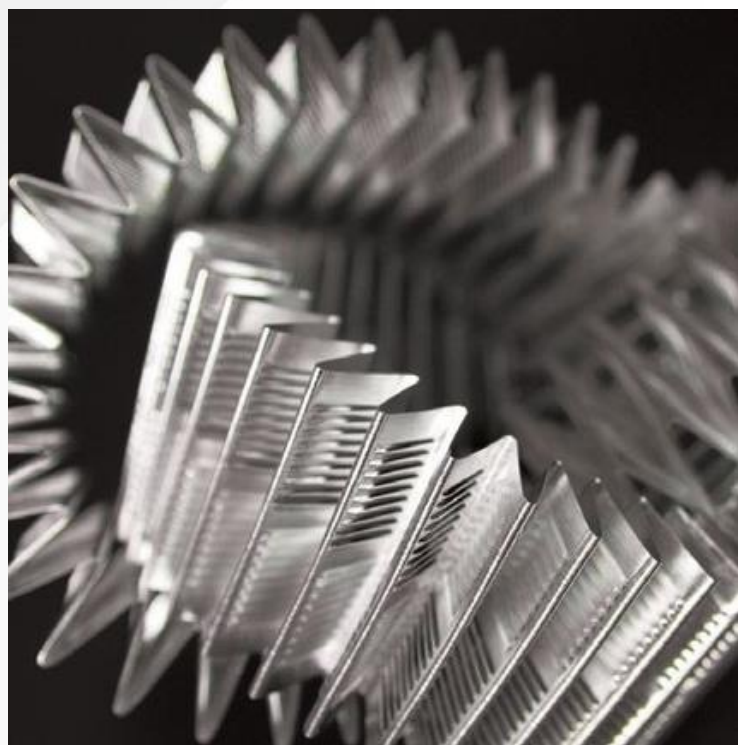
MSD Technologies collaborated with M/s BCT GmbH to promote their Heat exchanger machinery in the Indian market specializing in Automotive, HVAC and Power Industry. Located in Germany, BCT GmbH has invested in the development of machines to ensure that we are capable of meeting the extensive demands of the Heat Exchanger Industry and Automotive HVACR field



For more info you may visit

<https://bct-sh.de/, msdtech.in>

Fin Mill



Tube Mill

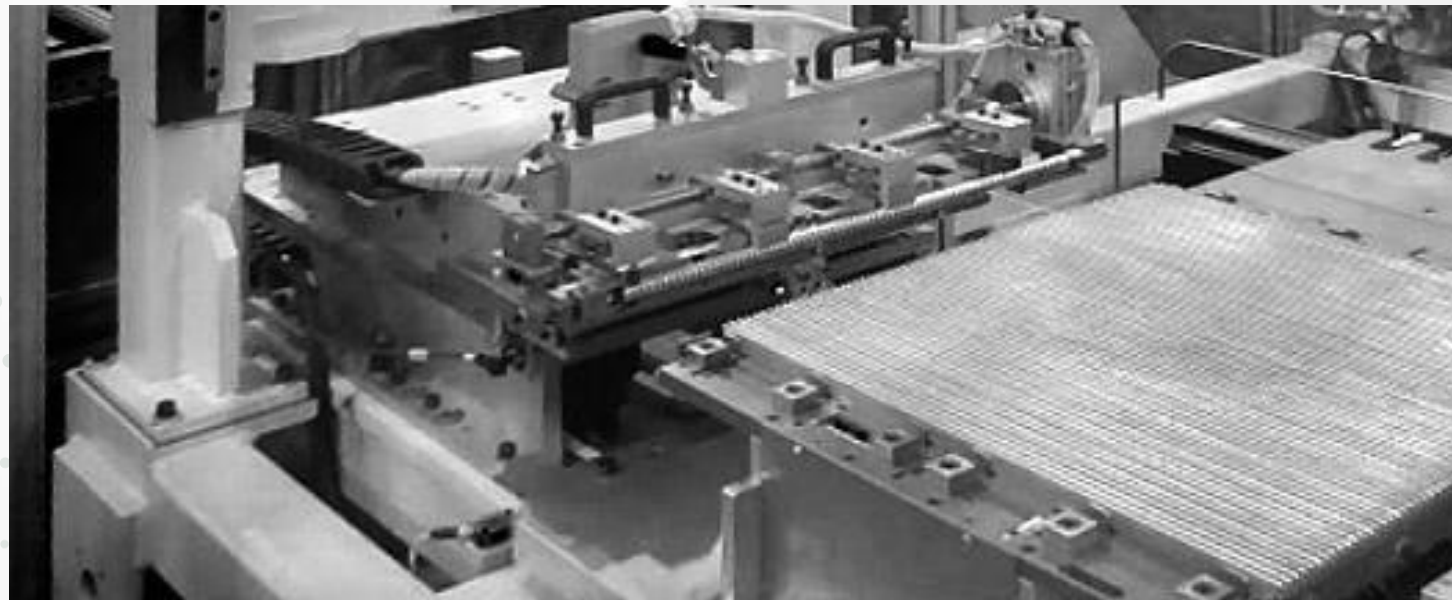
Tube Folding Machines



Tube welding Machines



Core Builder System



OUR CUSTOMERS



OUR CUSTOMERS





THANK YOU

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