

Changing the
sky line of
core production...



Compax
advanced high productivity
foundry solutions



MISSION

To harvest state of the art technology for meeting the needs of customers to their complete benefit & delight.

COMPAX: Where the roots lie in Technology.

Compax Industrial Systems Pvt. Ltd. - a fast growing organisation is renowned in India for its Innovative and High technology products for Foundry Industry, Automotive component industry as well as other sectors of Engineering Industry for over Two decades.

COMPAX an ISO 9001-2000 Company has many a "FIRST IN INDIA" products to its credit. It has been awarded the prestigious "Parkhe Award by Maratta Chamber of Commerce & Industries" for its novel "COMPAJET CO2" gas injector. The Govt. of Maharashtra recognised its outstanding Entrepreneurship and Entrepreneur's International, bestowed the "ABBEE Quality Award" on **COMPAX**.

COMPAX has done pioneering work on Cold Box Process in India and provided Cold Box solutions to number of Coremaking Applications in Automotive Industry, Pump, Industry, Valve industry and many other engineering fields.

Over the years, through its continuous and dedicated R & D effort, **COMPAX TEAM** has been bringing out High Productivity products for Coremaking applications for Amine Cured, Co2 Cured and Heat Cored Binder systems, employing the state of the Art technology.

COMPAX Foundry products have not only reached Coreshops in all corners of India Large, medium or small but have made their presence felt across the globe in countries like Singapore, Saudi Arabia, Bahrain, Dubai, Africa etc.

COMPAX undertakes the installation of the entire Coreshop project including Design, Layout, Supply of equipment, commissioning and Training on Turnkey basis.

The empowered **Compax** customer enjoys :

- ◆ Higher Technology
- ◆ Higher Productivity
- ◆ Higher Safety
- ◆ Higher Flexibility

Thus the Core shop can boast of :

- ◆ Higher Output/Unit of Investment
- ◆ Higher Output/Unit of Human Resource
- ◆ Higher Output/Unit of energy.
- ◆ Higher Core Strength/Unit of Consumables.
- ◆ Lower Core Cost/Casting.



COMPAX COLD BOX CORE PRODUCTION UNIT 'COMPACOR' - THE PROVEN WORKHORSE

- ◆ Best answer for high core quality production with high speed & flexibility requirements up to shot capacity of 120 kg.
- ◆ Wide choice of job rated models for multipart tooling.
- ◆ Special range for critical cores up to 60 kg. Shot capacity with multiple part/ Horizontal/Vertical tooling.
- ◆ High tooling clamping forces.
- ◆ Pneumatically/ Hydraulically operated units.
- ◆ Equipment with upgraded curing systems based on inert gas or air as carrier with specialised techniques.
- ◆ High PLC technology made user friendly.
- ◆ Fully Automatic operation.
- ◆ Candle-less operation possible.
- ◆ Option of multipoint gassing techniques.
- ◆ Short machine cycle time.
- ◆ Totally enclosed units with exhaust systems.
- ◆ Built in high efficiency gas generators and air-drying & processing systems.
- ◆ Flexibility of core retrieval systems.
- ◆ Quick tooling change systems available.
- ◆ Vacuum clamping system available for small core boxes.
- ◆ Economy models also available.



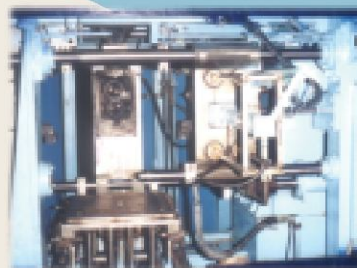
COMPACOR SEMI - AUTOMATIC MACHINE

- ◆ The product was introduced keeping in view the investment constraints and need for high production in the foundries or core shops
- ◆ Flexible & Versatile operation for small Batch production of cores
- ◆ SHOT CAPACITY OF 3 K.G.
- ◆ MAX TOOLING SIZE OF 350 X 350 X 200
- ◆ PLC based core-making operations.
- ◆ All operations except Clamping of Core box Halves and Removal of core Automatic Semi Automatic version.
- ◆ MANUAL MODE operation possible.
- ◆ In built Amine Gas Generation System.
- ◆ Built in Air Drying & Processing System.
- ◆ Compact, Cost effective & Space effective production model.
- ◆ Ideal for small facilities & core suppliers



'COMPASHELL' - Coreshooters for Heat Cured Processes (Shell / Hot Box)

- ◆ Job rated sturdy models.
- ◆ Models available for Vertically/ Horizontally or Multiple Parted Tooling.
- ◆ Swing door (Side swing or front swing) available.
- ◆ Rollover models available.
- ◆ Choice of Pneumatic or Hydraulic operation.
- ◆ Operations Controlled by state of the Art PLC technology.
- ◆ Short Cycle times.
- ◆ Versions available for Electrical Heating System/ LPG based Heating System with suitable controls.
- ◆ Choice of Pullouts/ Ejection systems.
- ◆ Customised models offered to accommodate special tooling apart from standard sizes.
- ◆ Can be supplemented with Auto Sand feed Systems.



COMPAX SANDMIX PREPARATION SYSTEM

- ◆ Fully Automatic operation.
- ◆ High quality of Sand mix.
- ◆ Accurate sand batching using load cells.
- ◆ Sand mix head with latest A.C. drive technology to vary the speed.
- ◆ Automatic binder dosing system with volumetric control.
- ◆ Uses advanced PLC technology.

COMPAX SAND HANDLING AND DISTRIBUTION SYSTEM

- ◆ Incorporates customized system elements like bucket elevator, Vibratory feeder, belt conveyor, sand silos, sand batching system, Binder dosing, Sand mixing system & sand dispensing system.
- ◆ Can also be equipped with sand drying & cooling arrangements.
- ◆ Specially designed PLC based control panel to synchronise fully automatic operations to meet the requirement of every core production center.



COMPAX DIP CORE COATING SYSTEM



- ◆ Fully Automatic operation using latest PLC technology.
- ◆ Proven positive displacement pump for circulation of coating solution from coating tank.
- ◆ Manipulator with soft padded Core clamping & Swiveling/ Oscillation Mechanism.
- ◆ Can be interfaced with Core handling and Core drying oven from COMPAX.

'COMPAJET' CO₂ GAS INJECTOR SYSTEM

- ◆ Saves costly CO₂ gas.
- ◆ Economical for Core & Mould Production by CO₂ cured Binder systems
- ◆ Suitable for CO₂ silicate process / CO₂ cured phenolic binder system.
- ◆ Easy to operate, No fatigue to the operator.
- ◆ No over gassing / under gassing.
- ◆ No Choking, No Freezing, No Wastage.
- ◆ No Human skill / judgment requirement for moulding.
- ◆ Consistent quality of cores / moulds.
- ◆ Easy to adapt for Automation with existing core making machines.
- ◆ Special units for CO₂ cured phenolic Binders.



'COMPACURE' CURING SYSTEM

- ◆ Fully Automatic unit using latest PLC technology.
- ◆ Proven gas generator systems with consistent high quality curing property.
- ◆ Special dual gassing & dual purging technique for fast and efficient curing & excellent core strength.
- ◆ Units available for inert gas or air as carrier medium.
- ◆ Units with proportional valve technology also available.
- ◆ Option of multiple injection of Amine gas.



'PURAIR' POLLUTION CONTROL SYSTEM



- ◆ Efficient scrubbing system using packed beds with polypropylene rings to achieve maximum scrubbing efficiency.
- ◆ Sturdy construction using stainless steel/ fibre-glass reinforced plastic body.
- ◆ Stainless steel spray nozzles to obtain best possible liquid distribution.
- ◆ Proven re-circulation pump of stainless steel/ fibre lined impeller with heavy-duty motor for circulation of scrubbing media.
- ◆ Efficient blower system with fibre lined impeller at suction as well as exhaust end.
- ◆ Metering pump for automatic dosing of scrubbing media (optional)
- ◆ Mist eliminator for efficient filtration of polluted material.
- ◆ pH value measuring system.
- ◆ Fully automatic operation using latest PLC technology.

COMPAX SOLUTIONS FOR ALUMINIUM FOUNDRY

COMPACAST LPDC : LOW PRESSURE DIECASTING STATIONS

- ◆ Equipments designed for high efficiency, high productivity & high Die clamping force .
- ◆ "Rising Pressurisation Characteristics" using servo control precisely controls the pressurisation cycle.
- ◆ Data Management, Analysis system, Fault diagnostics & entire PLC control enables higher efficiency & control.
- ◆ Ideally suited for High Quality Production of Alloy Castings like wheels, steering columns etc.



COMPACAST GDC : GRAVITY DIECASTING STATIONS

- ◆ High clamping, ejection and Core pull forces,
- ◆ Equipped with PLC based operation, energy conservative powerpack & water cooling systems for the Dies
- ◆ Designed for wide range of Aluminum Gravity Diecasting applications like two wheeler alloy wheels.

COMPAX DE-CORING SYSTEM FOR ALUMINIUM CASTINGS

- ◆ High productivity separates out Sand within short span of time.
- ◆ Simple, Sturdy & Job rated construction with multiple casting mounting system.
- ◆ Sand separation by means of pneumatic hammers with adjustable duration & frequency of hammering action.
- ◆ Soundproof Enclosure.
- ◆ Can be supplemented with casting handling and sand transportation systems, as well as dust collector.



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