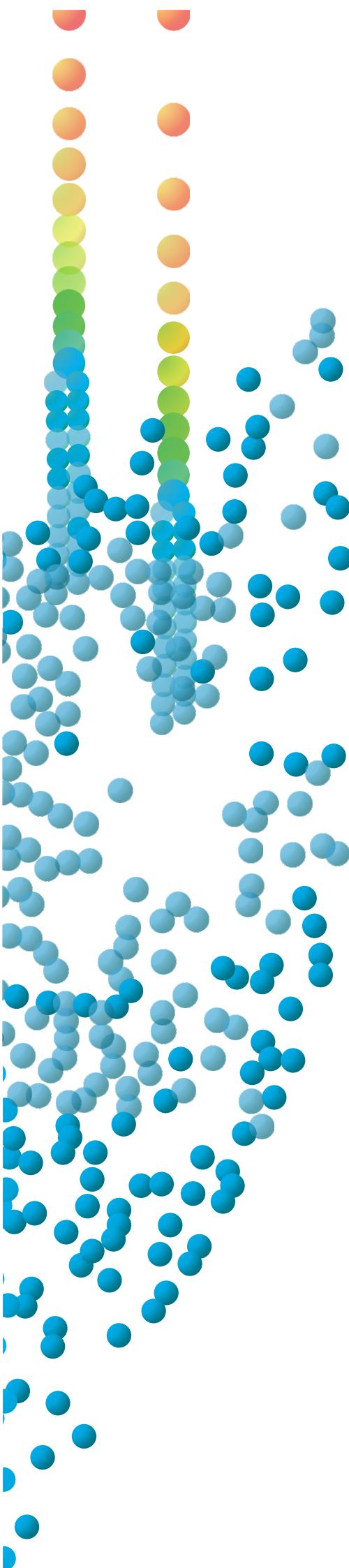


TOGETHER, TO THE NEXT LEVEL.

Next Gen Technology for

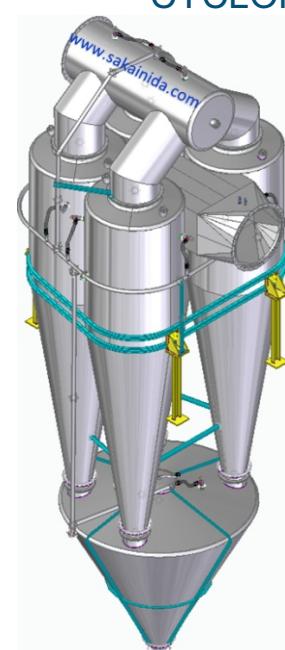
- > Industrial Drying & Evaporation Systems
- > Granulation Plants
- > Spray Conegealing Systems
- > Air Heating Systems
- > Powder Handling Equipment
- > Convening Systems
- > Blowers, RAV, Blenders, Screw Conveyors etc.





APPLICATIONS
STARCH
AGROCHEMICALS
DYES & PIGMENTS
FRUIT COLORS
FLAVORS
CERAMICS
PHARMACEUTICALS
PAPER INDUSTRY
HERBAL
FOOD EXTRACTS
MILK POWDER
STEARIC ACID
BIO-EXTRACTS
ZERO DISCHARGE PLANTS
POLLUTION CONTROL
EQUIPMENT
AND MANY MORE....

QUADRUPLE
CYCLONE

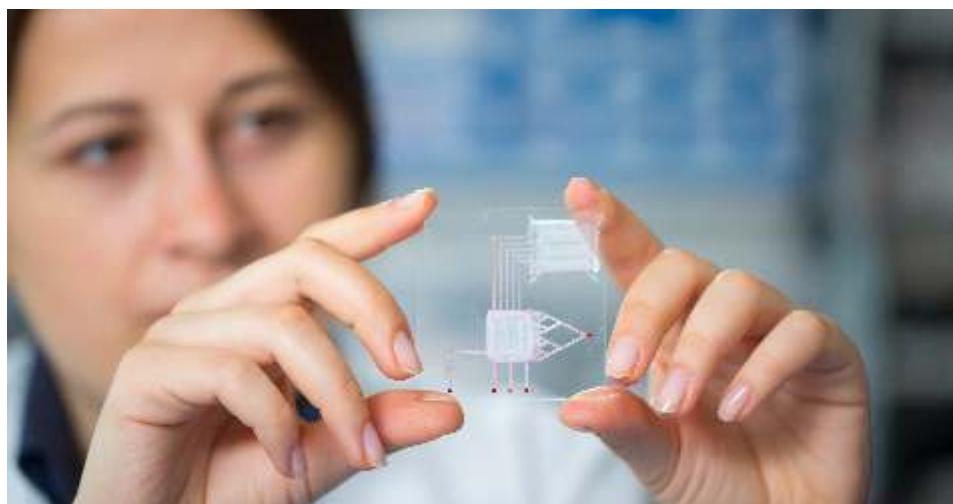


SCRUBBING
SYSTEM



TO THE NEXT LEVEL WITH SAKA ENGINEERING

By challenging the conventional norms, SAKA RETHINKS, REINVENTS & REDEFINES the technology to create new benchmarks for your process reliability, efficiency & quality. Our vision is to deliver the next level of performance in drying technology for our customers.



DELIVERING THE NEXT GENERATION INDUSTRIAL DRYING TECHNOLOGY WITH

PROCESS EXPERTISE

SAKA has a deep know-how in an exhaustive range of drying applications. The deep application expertise means our products are embedded with an inherent vision to adapt to future needs of your business, thus ensuring an enduring technology for processes.

ADVANCED CFD ANALYSIS

Using next generation Computational Fluid Dynamics (CFD) techniques SAKA is able to simulate and analyse the material behaviour and properties in the process. The deep insights from analysis ensures highest level of performance optimization & equipment reliability, when in operation.

INTELLIGENT AUTOMATION

SAKA's focus in automation is to leverage advanced PLC/SCADA technology to build intelligent drying processes that ensure highest efficiency in operations and best quality in output. SAKA builds and implements easy to use automation as per your process needs and budgets.

WORLD-CLASS QUALITY

Being world-class is core to our strategy. We have established an extensive system of checks to ensure only the highest quality in our sourcing, manufacturing and site work. With SAKA, you are assured of the best quality that performs as promised for years together.

CERTIFIED PROJECTS

As a manufacturer of machineries, we are proud to follow various certifications to ensure the quality and safety of our products. Our certifications include

CE CERTIFICATION

ATEX CERTIFICATION

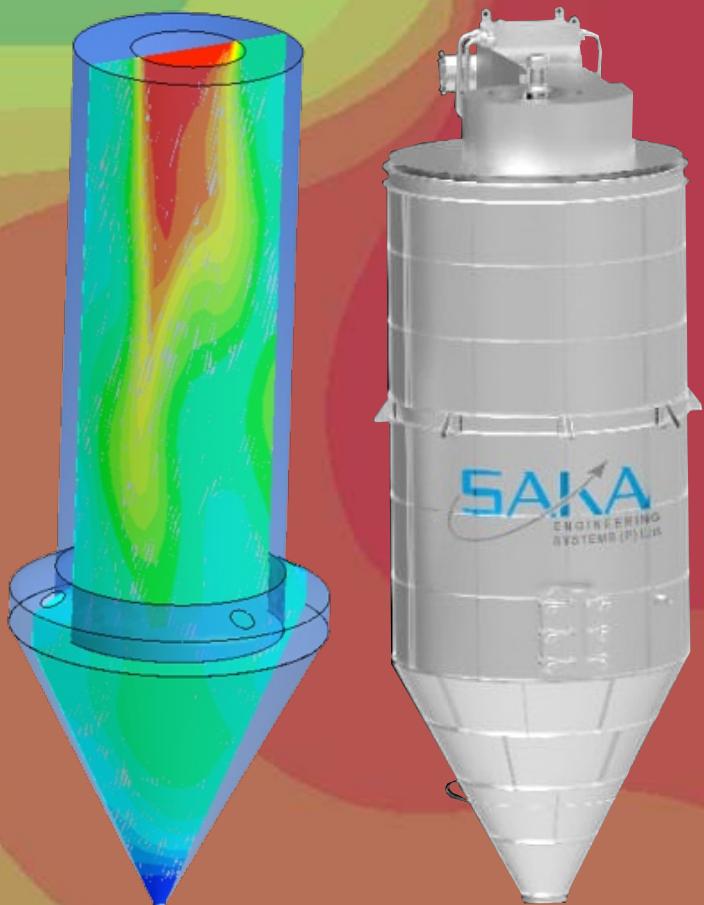
UL CERTIFICATION

U - STAMP CERTIFICATION

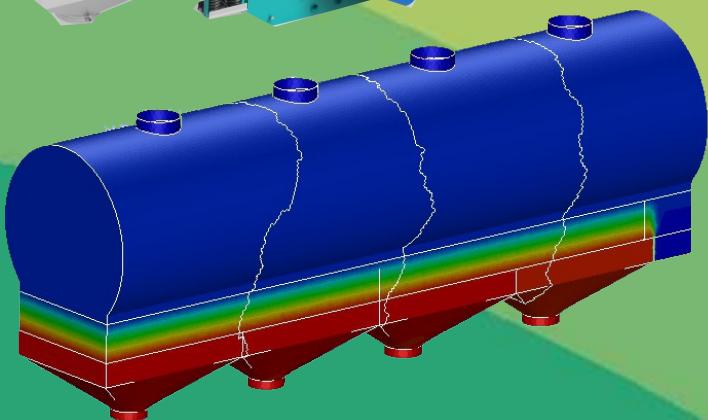
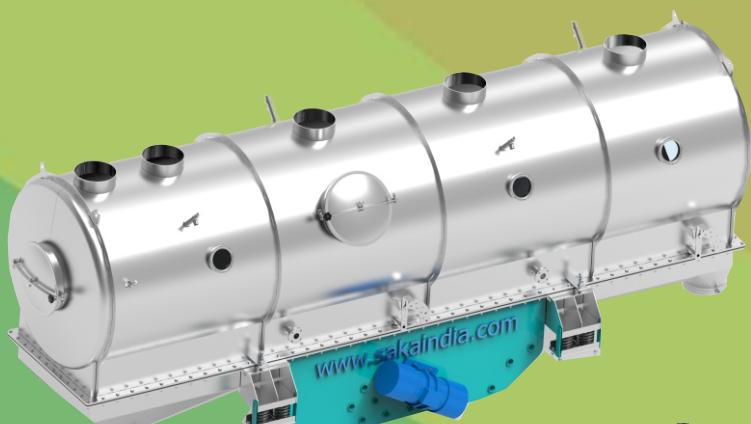
These certifications demonstrate our commitment to meeting industry standards and regulations, providing our customers with peace of mind and confidence in the reliability of our machineries

SPRAY DRYER CFD ANALYSIS

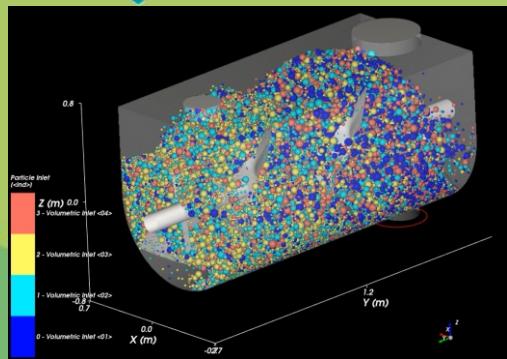
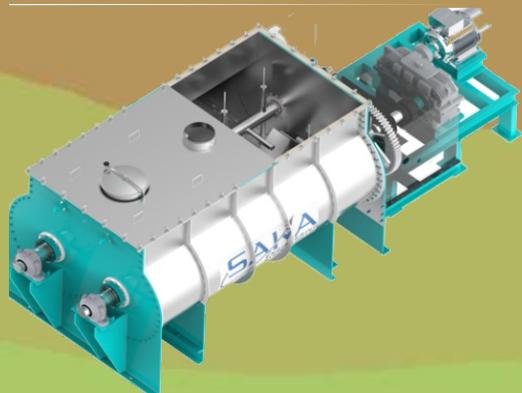
RETHINK ANALYSIS
BY RETHINKING THE
CONVENTIONAL
APPROACHES TO
DRYING PROCESS
DESIGN AND
ENGINEERING, WE ARE
ABLE TO PROVIDE
BETTER TECHNOLOGY
THAT DELIVERS
CERTAINTY IN RESULTS.



FLUID BED DRYER CFD ANALYSIS

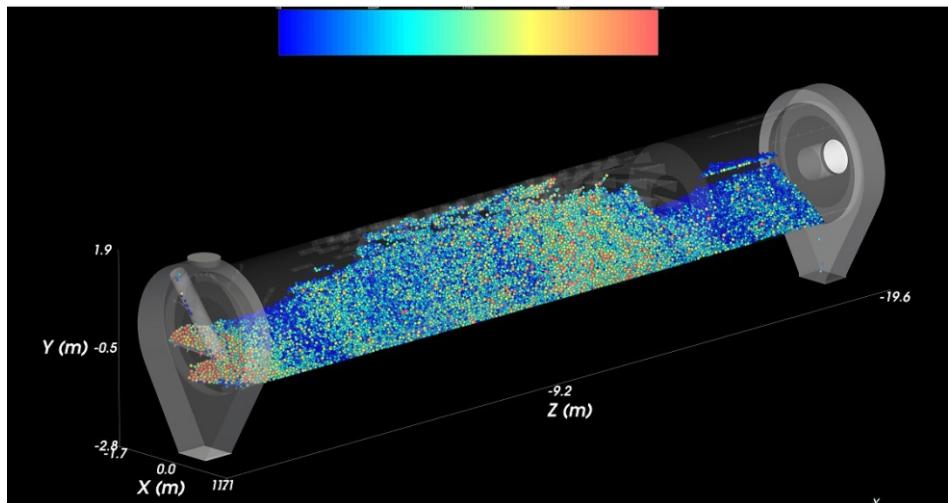


BLENDER CFD ANALYSIS



DESIGN AND ANALYSIS FOR CERTAINTY IN RESULTS

SAKA employs highly advanced methodology, such as CFD analysis, using cutting-edge tools to deliver guaranteed results for your business. Process efficiency, reliability and system performance are at the core of our design and analysis philosophy.



CFD SIMULATION & MODELLING

Computational Fluid Dynamics (CFD) uses applied mathematics, physics and computational software to visualize how the elements of a process (gas or liquid) flows or affects objects as it flows past.

SAKA's state-of-the-art CFD analysis center uses advanced simulation and modelling techniques to accurately map the relation between velocity, pressure, temperature, and density of a moving fluid, thereby ensuring complete control over process parameters and performance.

The result is a first time right process providing certainty in output & efficiency throughout the equipment's life-cycle.

UNPARALLELED BENEFITS

- CFD simulation helps to foresee performance before adapting or execution in systems
- Without installing real system or a pilot, CFD simulation helps understand the most vital parameters for improving performance
- CFD modelling saves cost and turnaround time and brings reliable results

65+
YEARS OF
DESIGN EXPERTISE

20%
OF WORKFORCE
IN DESIGN

200+
PROCESSES
ANALYZED



REDEFINE QUALITY
BY INTRODUCING
NEW, INNOVATIVE
WAYS AND SYSTEMS IN
MANUFACTURING,
SAKA REDEFINES THE
POSSIBILITIES IN
QUALITY OF YOUR
PROCESS PLANTS AND
EQUIPMENT.



INTEGRATED PROCESS ENGINEERING CAPABILITIES

SAKA's integrated approach to manufacturing, project management and installation, delivers an unparalleled quality for your processes. The integrated approach means thinking from efficiency, reliability and product quality point of view at every stage of project planning and execution, to ensure the next level of performance.



MANUFACTURING

SAKA's manufacturing capability includes 2 manufacturing plants all located in the heart of industrial hubs in Pune, India.

- > Team of 40+ engineers, technicians and managers
- > Manufacturing standardization and value engineering programs
- > In-house manufacturing for basic as well as advanced and heavy engineering
- > Advanced quality control processes for materials, components, manufacturing and vendors to ensure highest system reliability

PROJECT MANAGEMENT

SAKA's excellence in project management brings in several intangible benefits, reduces the risks and ensures smooth execution of projects for its customers.

- > ERP system for seamless communication between design and manufacturing
- > Complete visibility on project progress for the customers
- > On-time, on-budget completion of projects

INSTALLATION & COMMISSIONING

SAKA has extensive experience of commissioning large scale projects and entire plants in India and around the world.

- > Dedicated team of highly experienced engineers for installation, well versed in Safety Health and Environment (SHE) Compliance
- > Commissioning with a focus on best performance of the entire process, in addition to SAKA's equipment

250+

INSTALLATIONS

150 TPD +

CAPACITY PLANTS INSTALLED

300+

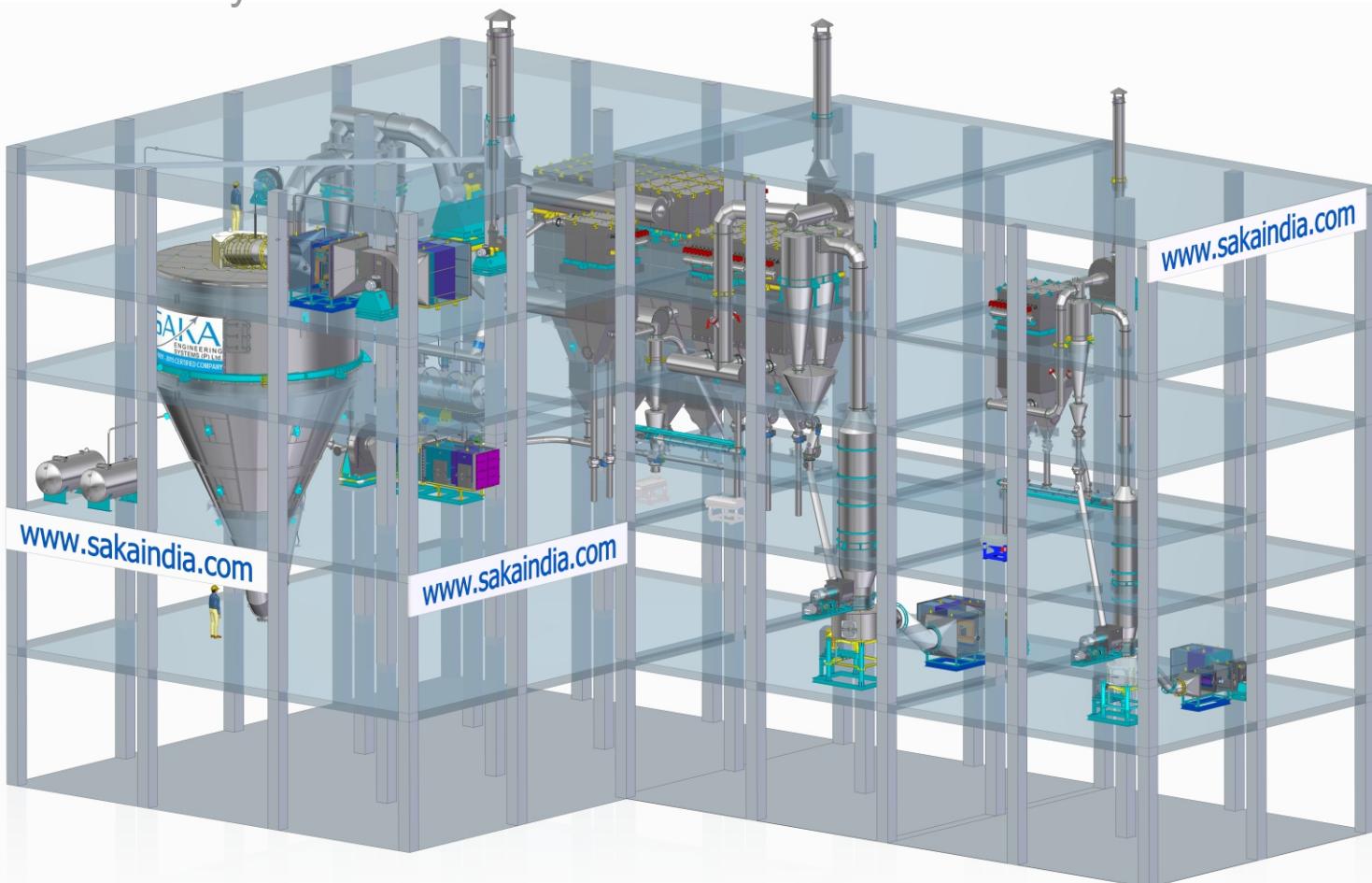
LOCATIONS ACROSS WORLD

REINVENT EFFICIENCY
BY CHALLENGING
THE 'SO CALLED'
OPERATIONAL NORMS,
SAKA REINVENTS
A NEW BENCHMARK
FOR YOUR PROCESS
EFFICIENCY
AND PERFORMANCE.

Large Turnkey Project
for Spray Dryer And
Flash Dryer



THREE STAGE
SPRAY DRYER

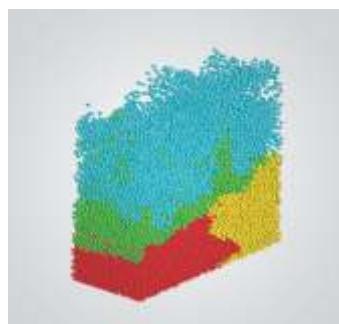


QUICK PAY-BACK ON YOUR INVESTMENTS, GUARANTEED.

From simple, value added equipment such as Heat Exchanger to end-to-end Granulation plants, SAKA's technology delivers the next level of efficiency for your processes. SAKA's team is recognized for innovative ideas and methods that unfold previously unavailable avenues for higher equipment efficiency and lowered production costs to drive greater profitability.

SAKA's equipment and plants are characterised by several features that reinvent the efficiency of your operations

ENGINEERING

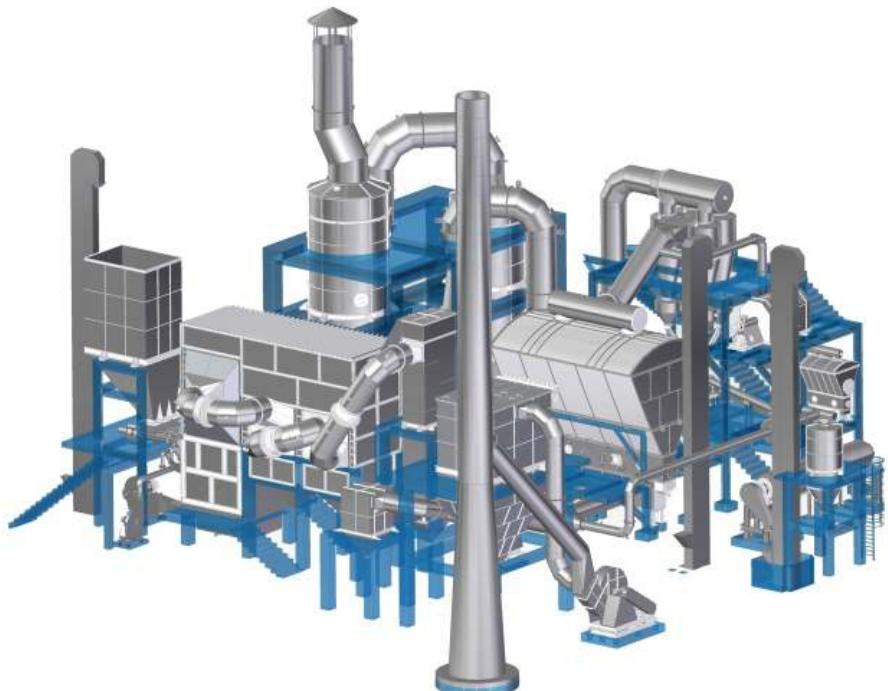


- > Process design with highest energy efficiency
- > Flexible designs to accommodate changes in feed or end product quality
- > Equipment design for easy operations and maintenance

OPERATIONS



- > Low maintenance systems that need lesser cleaning
- > Least loss, lower cycle time in processes
- > Advanced, automated systems with intelligent process controls



QUALITY STANDARDS:

SAKA Quality Standards whenever applicable as per Design Qualification:

In our manufacturing unit, we adhere to a range of applicable quality standards to ensure excellence in our products. These standards include ISO 9001: 2015 for quality management systems. Maintaining adherence to these standards not only guarantees the quality and safety of our products but also demonstrates our commitment to environmental sustainability and the well-being of our workforce.

It signifies to potential partners or clients our dedication to delivering superior products and services consistently. Emphasizing the importance of quality management not only instils confidence in our capabilities but also assures stakeholders of our commitment to meeting and exceeding industry standards.

Sr. No.	Description	Quality standards
1.	Management system	ISO 9001: 2015, approved by TUV - Nord
2.	Welder Qualification	ASME Section IX, EN15614
3.	Welding procedure	ISO15614
4.	Non-Destructive test	ASME Section V
5.	Welding inspection	IS 816, IS822
6.	Stainless steel material acceptance	ASME section II part A
7.	Stainless steel plates, sheet, and strips	ASME section II part A, ASTM A240
8.	Stainless steel bars and shapes	ASTM A554
9.	Tank Manufacturing standard	API 620 & API 650
10.	Hydro-test	ASME Section VIII Div 1, UG-99 (b)
11.	Welding Rod selection	ASME section II part C
12.	Balancing of rotary equipments	ISO 1940, balancing grade 6.3 AND 2.5
13.	Blower performance test	IS4894, there are many standards that cover performance testing of centrifugal fans such as AMCA and ISO. Our blowers perform well against these standards.
14.	NDT Acceptable Criteria	ASME SECTION VIII DIV.1, B31.3 AND ASME SECTION IX
15.	Structural Inspection	AWS D1.1, IS12843
16.	Pipe Flanges and Fitting	ASME B16.5
17.	Painter Qualification	IS 101-3-2
18.	Surface Preparation Procedure and Inspection	SIS-05-5900
19.	Painting/Coating Inspection	ISO19840
20.	Maximum Allowable Stress Values S for Materials	ASME Code Section II, Part D, Table 1B, 2019

Optional Certifications (If specifically mentioned and agreed) which can be followed for specific projects:

I.	CE certification	Entire Europe
II.	ATEX certification	Entire Europe
III.	U stamp certification	USA

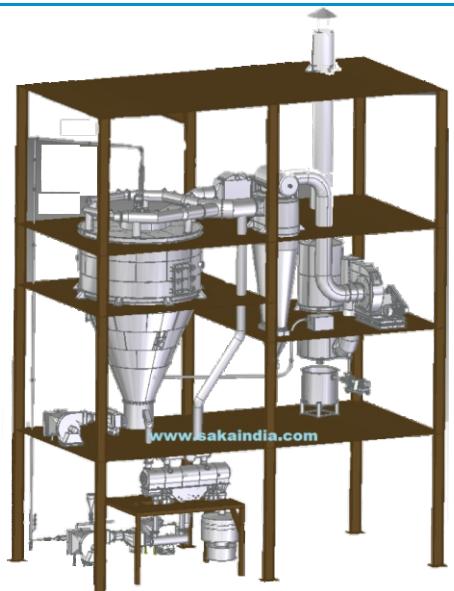
PRODUCT RANGE

In just few years SAKA has established itself as one of the leader in drying systems
choose from our wide range of Solutions

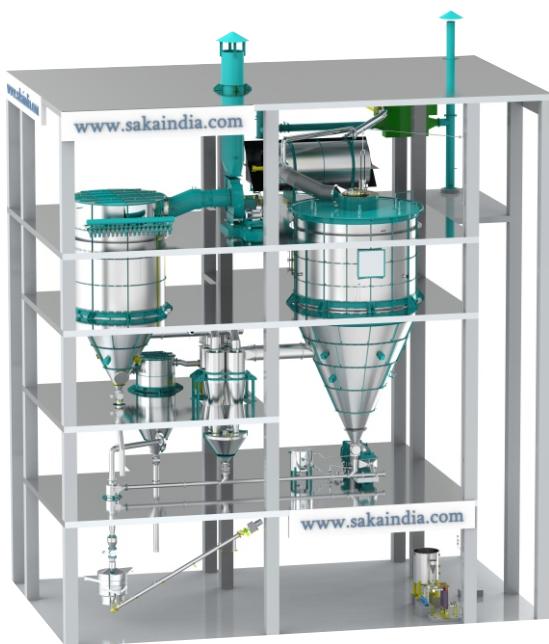
NOZZLE TYPE SPRAY DRYER



THREE STAGE SPRAY DRYER



ATOMISER TYPE SPRAY DRYER



ATOMISER TYPE SPRAY DRYER FOR ZERO DISCHAGRE SYSTEM



ATOMIZER TYPE SPRAY DRYER



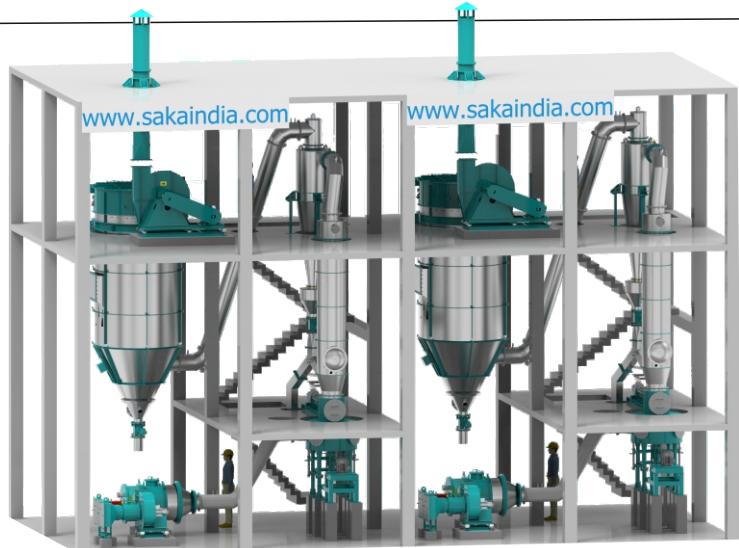
TYPE SPRAY DRYER



SPIN FLASH DRYER



FLASH DRYER



FLASH DRYER



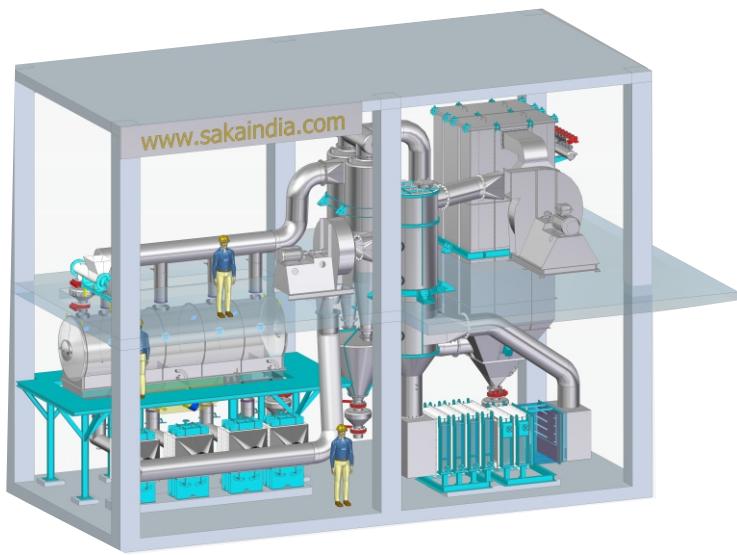
PIN MIL



FLASH DRYER



CLOSE LOOP FLUID BED DRYER



FLUID BED DRYER



FLUID BED DRYER



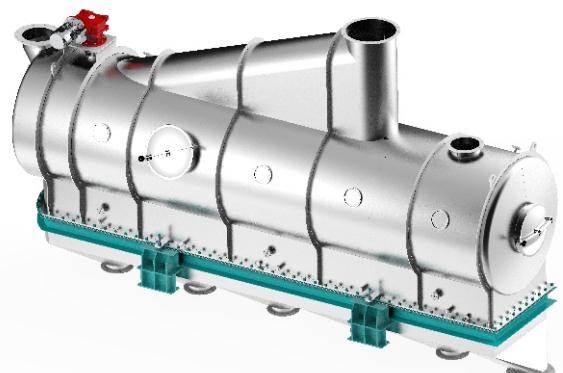
SHUGI MIXER



FLUID BED DRYER



FLUID BED DRYER WITH AGITATOR



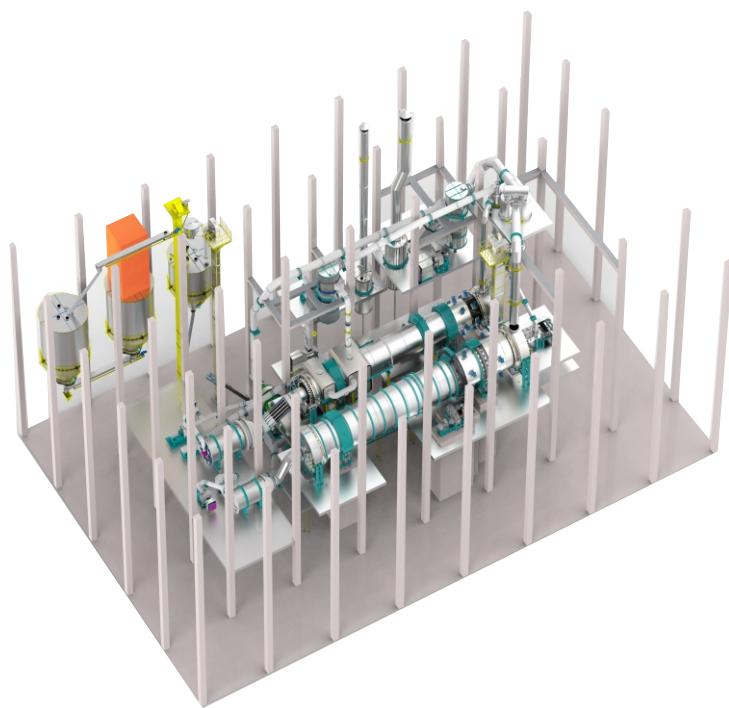
ROTARY DRYER



ROTARY DRYER



ROTARY DRYERS / KILNS PLANT



ROTARY CALCINER



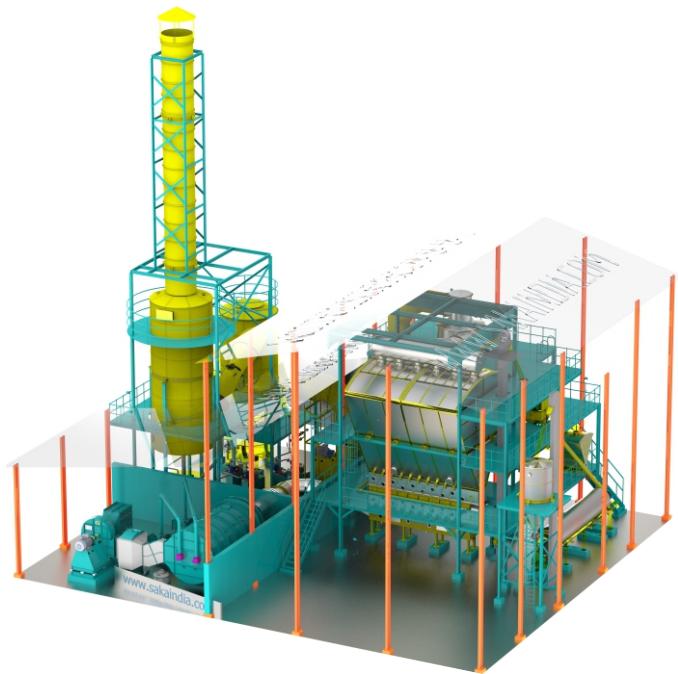
TUBE BUNDLE ROTARY DRYER



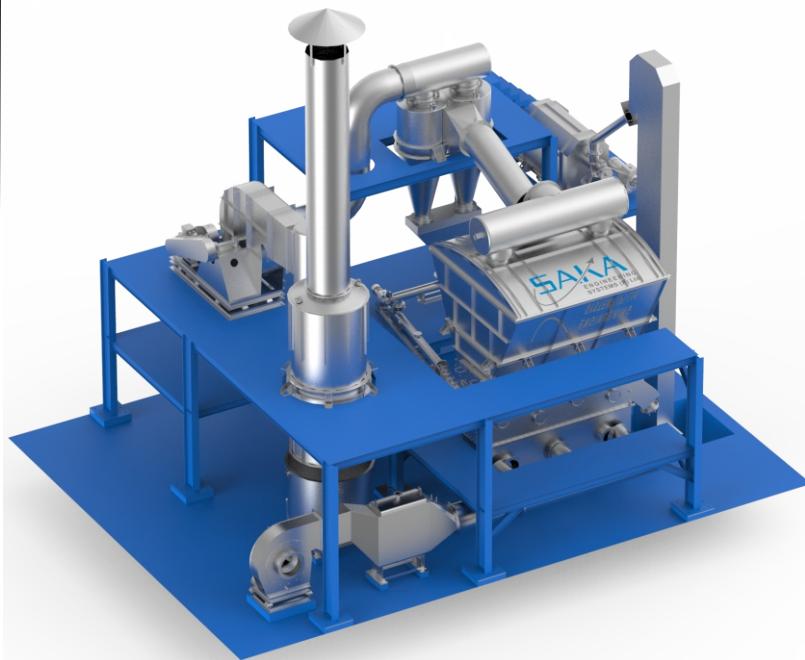
ROTARY DRYER EQUIPMENT



CaCl₂ GRANULATION PLANT



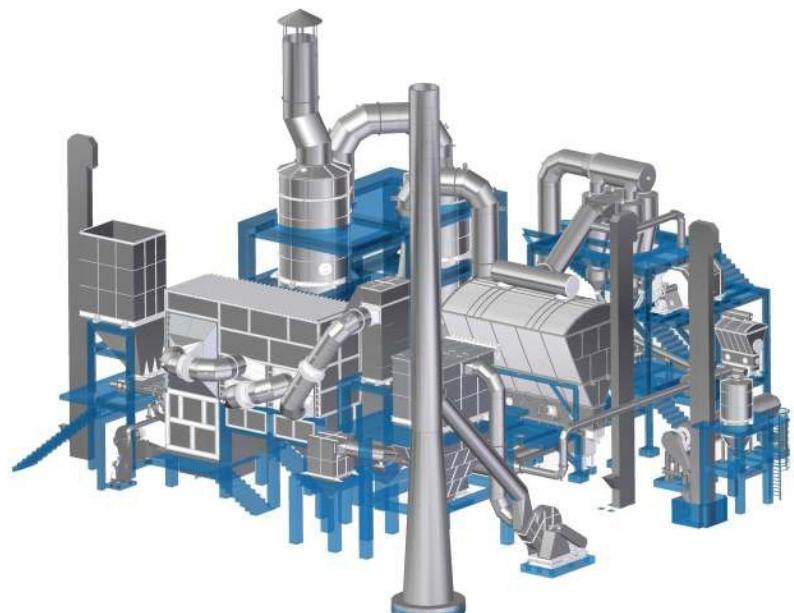
GRANULATION PLANT



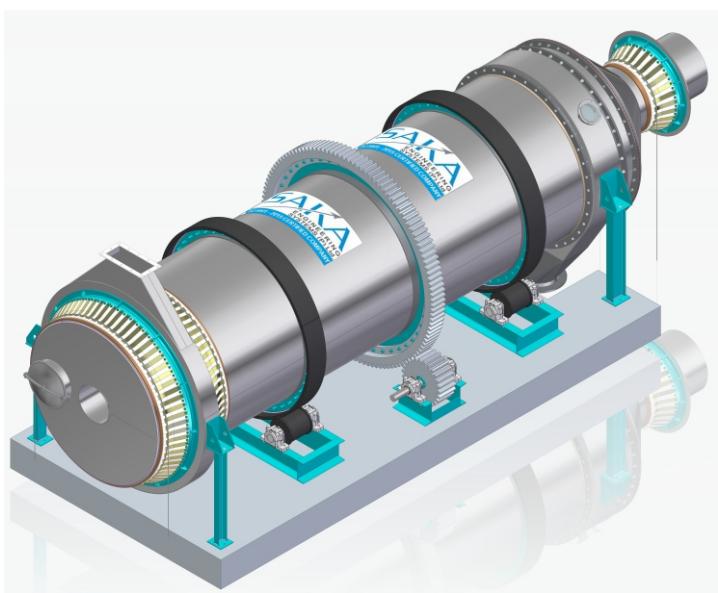
GRANULATION PLANT



GRANULATION PLANT



ROTARY COOLER



SPRAY COOLER



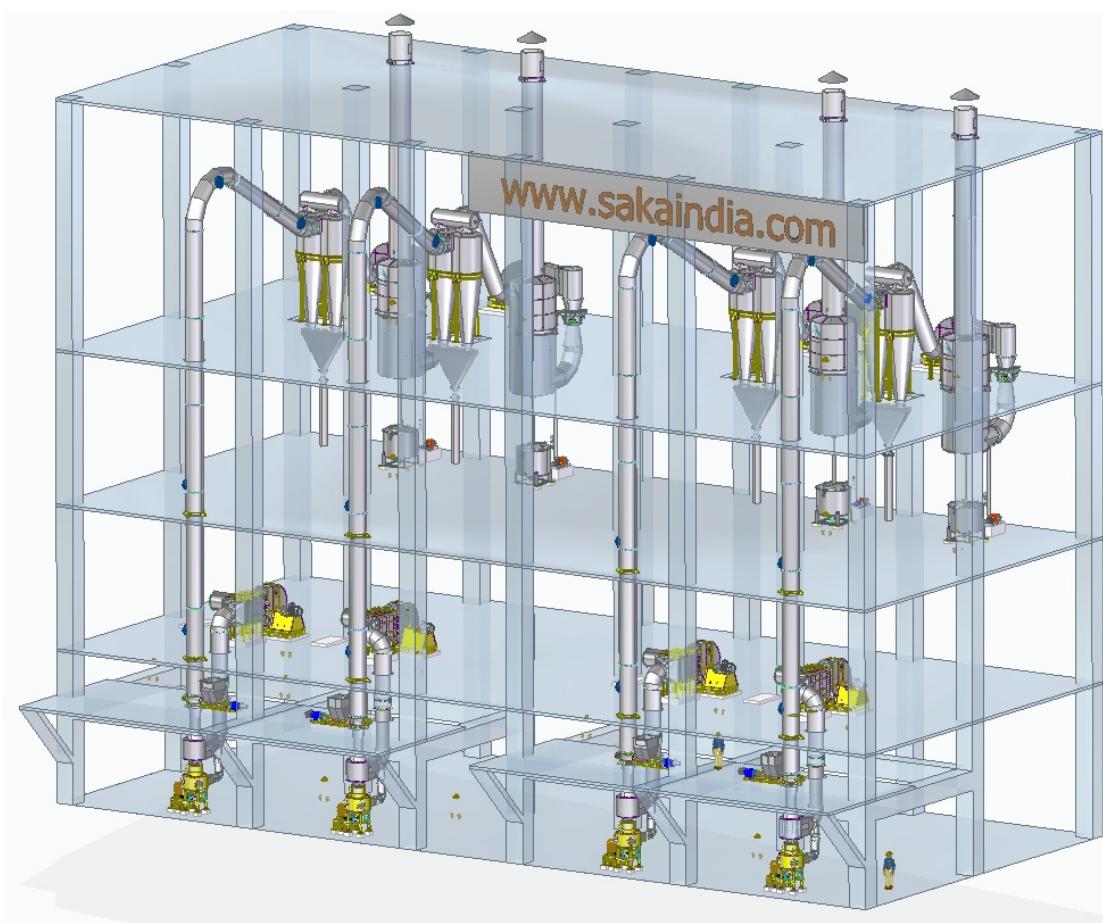
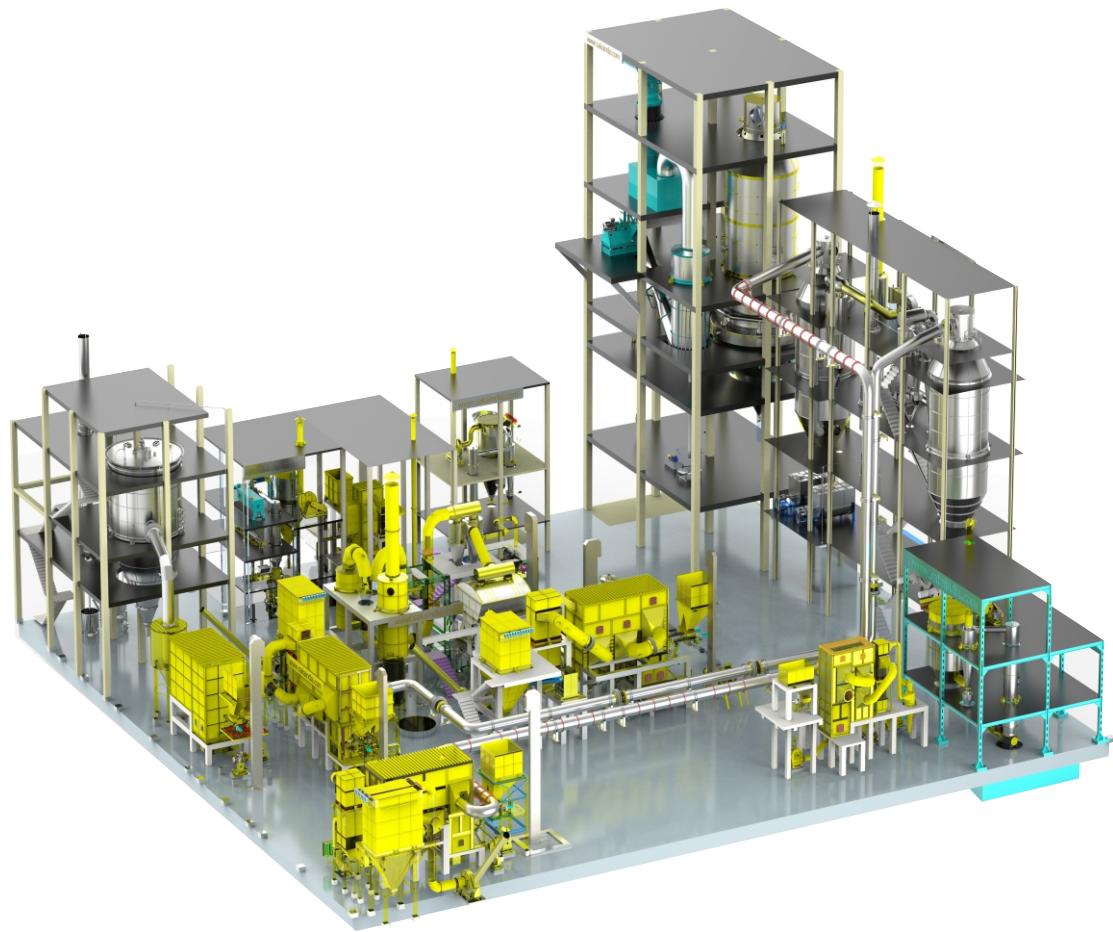
MATERIAL HANDLING SYSTEM



MATERIAL HANDLING SYSTEM



TURNKEY PROJECTS



DIRECT AIR HEATING SYSTEM



INDIRECT AIR HEATING SYSTEM



DIRECT FIRED AIR HEATER



THERMIC AIR HEATING SYSTEM



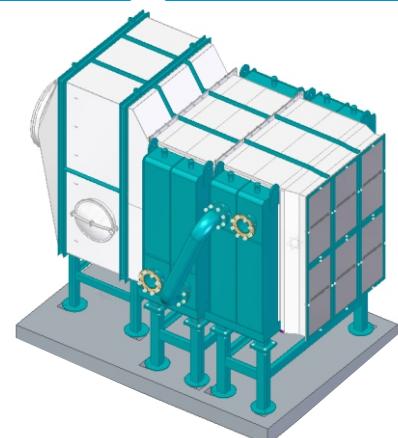
THERMIC FLUID HEAT EXCHANGER



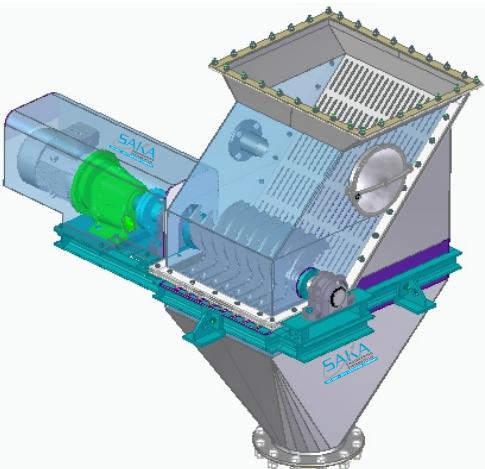
STEAM HEATER FOR SUPER HATED STEAM



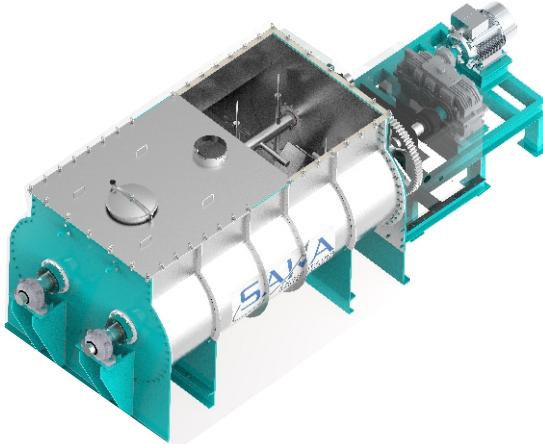
AIR COOLER, AIR MOISTURE SEPERATOR



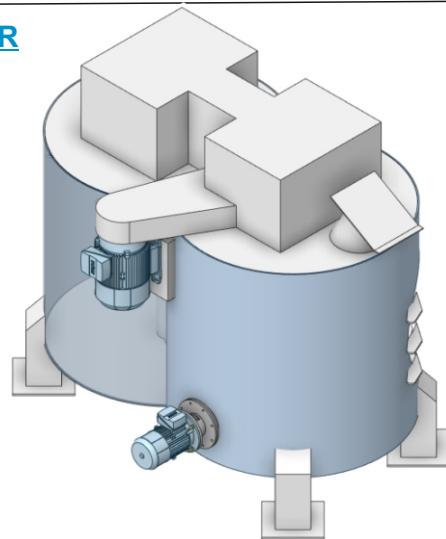
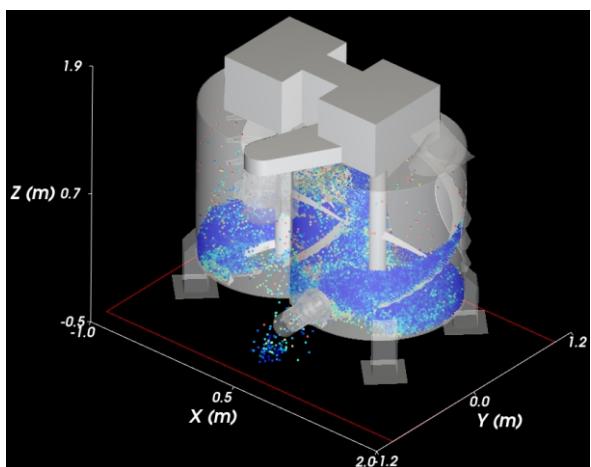
LUMP BREAKER



BLENDER (FAST MIXER)



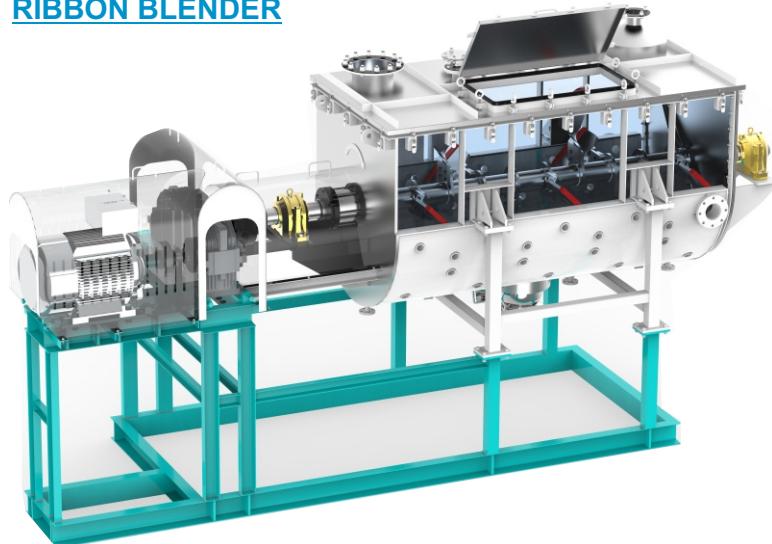
VERTICAL BLENDER



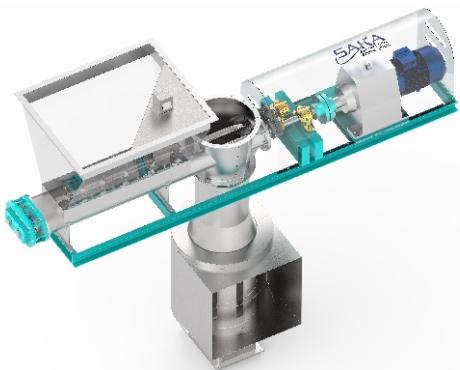
PLOW MIXER



RIBBON BLENDER



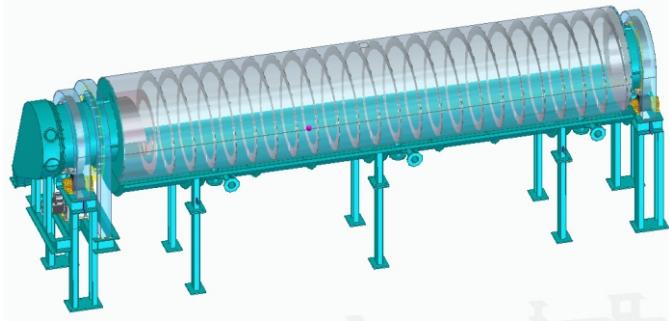
TWIN FEED SCREW



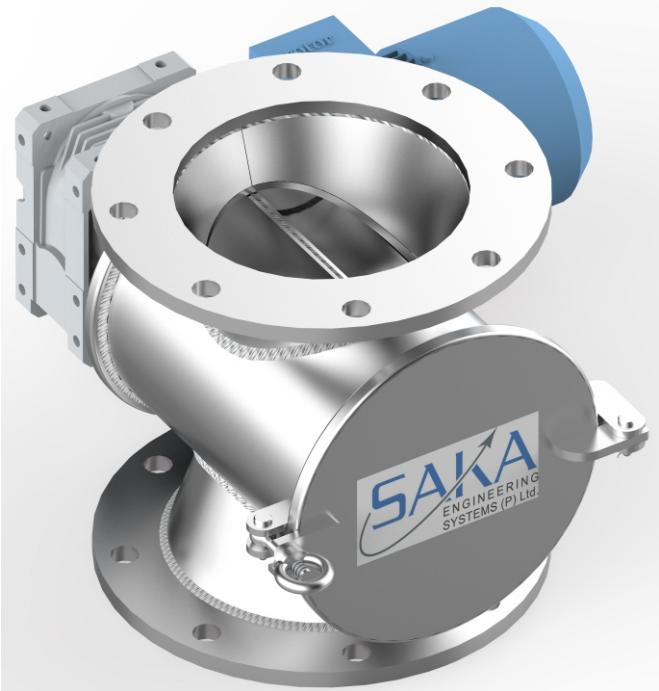
RAPID MIXER



ROTARY COOLER



ROTARY AIR LOCK VALVE



BAG FILTER



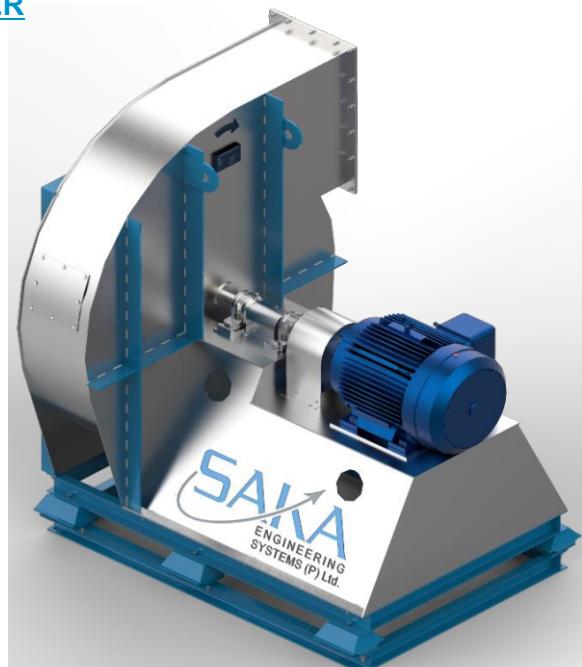
BLOWER



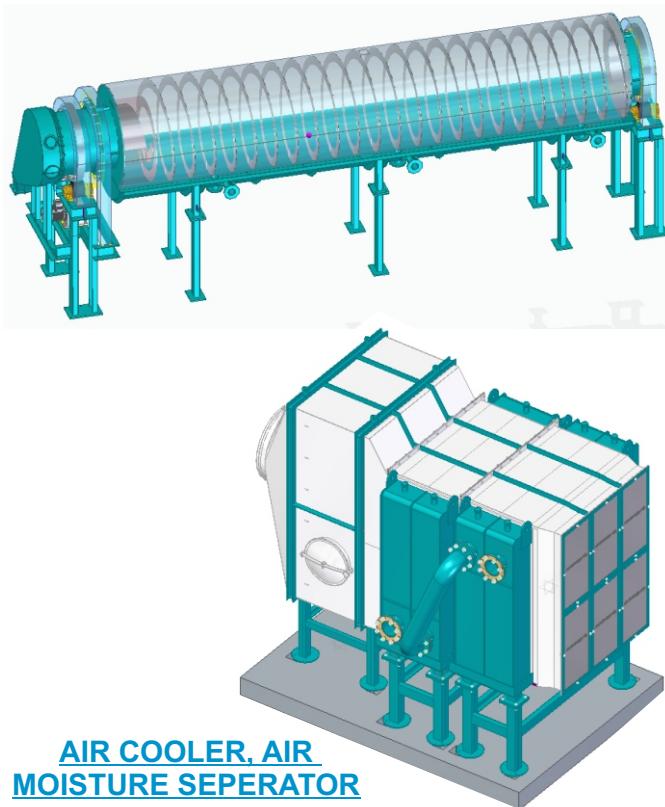
ATOMIZER



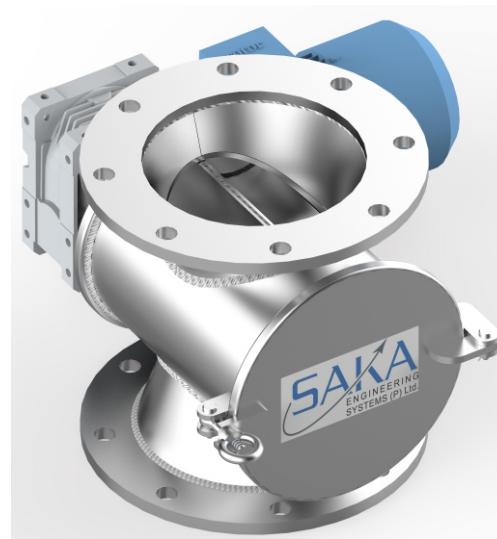
BLOWER



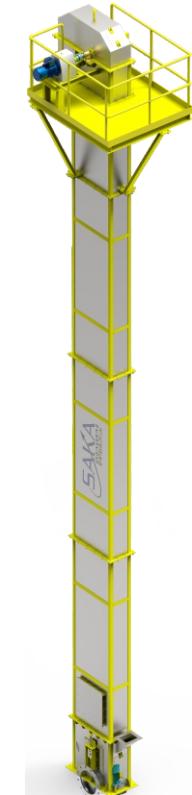
ROTARY COOLER



ROTARY AIR LOCK VALVE



BUCKET ELEVATOR



BAG FILTER



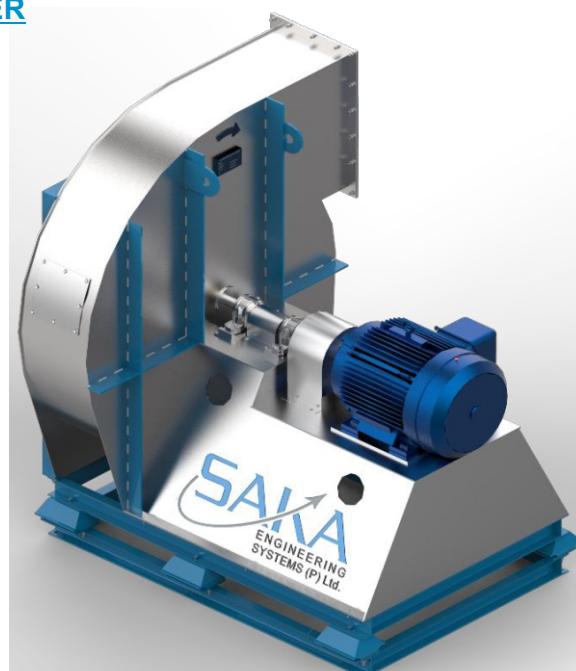
BLOWER



ATOMIZER



BLOWER





KEY PROJECTS

- > Largest precipitated silica plant with a capacity of 120 TPD
- > Biggest spray granulation plant with a capacity of 100 TPD
- > Designed, manufactured and commissioned India's largest plant for H Acid
- > Multiple installations of ZLD plants with capacity up to 300 TPD
- > Achieved 98% solvent recovery from
close loop spray drying plant with a capacity of 1 TPD

SAKA Engineering is a leading manufacturer and supplier of industrial drying and evaporation technology, Granulation plants and spray cooling systems. SAKA's technology is recognised in particular for its innovation, high efficiency, most reliable product quality and staying well within the demands of pollution control norms, in numerous drying applications, across diverse industries.

With presence in India and installations across the world, SAKA has several firsts to its credit including manufacturing of one of the largest spray dryers in India, the largest fluidised bed dryer in India and being one of the few companies to develop and deliver technology for complete Granulation plants.

KEY CLIENTS



SAKA ENGINEERING SYSTEMS PVT LTD.

Office : Plot No. W45, 'T' Block, MIDC Bhosari, Pune 411 026, Maharashtra, India.

Works 1: J58, 'S' Block, MIDC Bhosari, Pune 411 026, Maharashtra, India.

Works 2: Ghat No. 65/1, Gaon Mouje Dhanore, Alandi-Markal Road, Tal-Khed, Dhanore, Pune- 412105 Maharashtra, India.

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