In order to optimize the quality of a product, Nicomac helps you in the following stages:
- Process development: New product development starts from process development. Nicomac, with its continuous commitment to technology innovation and excellence, can offer you the complete process development for your new product.
- Process handling: Nicomac supplies complete system and an expert for solid dosage departments. Each product has different cleaning process for the entire line. Consulting with high performance machinery, turnkey project - process development - validation operation and ISO 9001 SOP .
- Validation: Nicomac not only fulfills your expectations, at the same time also ensures the quality components, FDA approved pharma machinery are working in your company equipment and your needs.
- Commissioning: Turnkey project - commissioning system - commissioning operation: an expert for solid dosage departments helps to optimize the quality of a product. Nicomac will be your partner for turnkey projects, where the goal is quality, efficiency, performance, and your needs.
- Quality without compromise: Nicomac supplies a complete system and an integrated concept to fit your requirements. You can be assured of a fast and effective cleaning process for the entire line. Consulting with high performance machinery, turnkey project - process development - validation operation and ISO 9001 SOP .
- Quality without compromise: NICOMAC will be your partner for turnkey projects, where the goal is quality, efficiency, performance, and your needs.

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durable quality components,
FDA approved pharma machinery are working in your company equipment and your needs.

A complete integrated production line can be designed and your needs.
Nicomac will be your partner for turnkey projects, where the goal is quality, efficiency, performance,
**Horizontal Process Layout**

Horizontal process layout on one level

- **Process Flow**
  - Shown in a series of images highlighting various process steps and equipment used in the layout.
  - The layout is designed to demonstrate the flow of materials and processes in a horizontal plane.

- **Equipment Highlight**
  - Each equipment is labeled with its function and process it is involved in.
  - The layout includes equipment such as Mixers, Coaters, and Choppers.

**FDB NICOBED**

- **Equipment Focus**
  - A specific equipment called FDB NICOBED is highlighted.
  - It is described as being designed and positioned to help with the uniformity of granule size.

**Vertical Process Layout**

Vertical process layout on different levels

- **Process Flow**
  - Shows the layout of processes in a vertical arrangement, emphasizing different stages and levels.
  - It is designed to demonstrate the flow of materials and processes in a vertical plane.

- **Equipment Highlight**
  - The equipment is shown in multiple levels, with each level containing different types of machinery.
  - It includes a Sprayer, a Shaker, and a Mixer, among others.

**Dispensing System**

- **System Overview**
  - Dispensing system is described with its components and functionalities.
  - It mentions the use of Track Identification using barcode scanners.

**Sifter - Multi/Cone Mill**

- **Mill Structure**
  - Describes the mill as being safe, closed, and featuring a unique high pressure laminate phenolic impregnated panels structure with laminar flow tracks.

**Calibrator - Compact Design, Safe Seal, Easy Dismantling**

- **Calibration Feature**
  - Details the calibrator as being compact, safe, and easy to dismantle.
  - It includes a description of its features and benefits.

**Oscillating Reducer - Vibro**

- **Reduction Mechanism**
  - Explains the reducer as being a safe, closed system.
  - It describes its function and the unique high pressure laminate phenolic impregnated panels structure.

**Crushing, Separation, Classification & Calibration**

- **Classifying Process**
  - Focuses on the classification and calibration aspects of the crushing and separation process.
  - It mentions specific features such as oscillating reducers and vibrators.

**PNEUMATIC CONVEYING**

- **Conveying System**
  - Provides a detailed explanation of the pneumatic conveying system, including its components and operational aspects.
  - It describes the system's ability to transport powders gently and uniformly.

**Washable Filter - Based Air Blasted Filter Cleaning System**

- **Cleaning Process**
  - Explains the filter cleaning system as being washable and based on air blasting.
  - It describes how the cleaning process is performed.

**Vacuum Transport of Powders, Granules**

- **Transport Method**
  - Details the vacuum transport method for powders and granules, emphasizing its effectiveness.
  - It explains how the system ensures safe, closed transport.

**Optimizing Flow, Achieving Homogeneity**

- **Flow Management**
  - Discusses how the system optimizes flow and achieves homogeneity.
  - It mentions the integration of different components to ensure a smooth process.

**Automatic Dosing**

- **Dosing Functionality**
  - Highlights the automatic dosing system, emphasizing its precision and efficiency.
  - It describes how it is integrated into the overall process layout.

**Mixtures - High Shear - High Speed Mixer**

- **Mixing Technology**
  - Describes the high shear mixing technology used in the mixer.
  - It focuses on achieving better mixing and uniformity.

**Vacuumized Process Protocols**

- **Process Protocols**
  - Explains the protocols used in vacuumized processes, emphasizing safety and efficiency.
  - It mentions the use of impregnated panels for high pressure laminate phenolic impregnated panels structure.

**Torque Value**

- **Torque Measurement**
  - Describes the monitoring of torque values to achieve better performance.
  - It explains how these values are used in conjunction with other process parameters.

**Impeller Cleaning Validation**

- **Cleaning Validation**
  - Discusses the validation of impeller cleaning, mentioning the use of a check valve for easy dismantling and cleaning.
  - It explains the steps involved in ensuring proper cleaning.

**CIP System**

- **Cleaning In Place**
  - Details the CIP system, emphasizing its use in cleaning processes.
  - It mentions the automatic and accurate spraying system for top parts cleaning.

**Plant Cleaning**

- **Cleaning Solutions**
  - Explains the cleaning solutions used in the plant, mentioning the use of a special effective air flow during cleaning.
  - It describes the cleaning process and its importance for maintaining product quality.

**Dust-Free**

- **Dust-Free Operations**
  - Describes the dust-free operations, mentioning the use of unique high pressure laminate phenolic impregnated panels structure.
  - It explains how these panels contribute to dust-free environments.

**Safe, Closed System**

- **System Safety**
  - Highlights the safety features of the system, emphasizing its closed nature.
  - It mentions the sequential time-based system for safe and efficient operation.

**Vacuumization**

- **Vacuumization Process**
  - Explains the vacuumization process, mentioning its use in achieving homogeneity and uniform flowing powders.
  - It describes the importance of vacuumization in maintaining product quality.

**Homogeneity**

- **Homogeneous Mixing**
  - Discusses the achievement of homogeneity in mixtures, mentioning the use of high shear mixing.
  - It emphasizes the importance of this step in maintaining product quality.

**Fluidization**

- **Fluidization Technique**
  - Describes the fluidization technique used, mentioning the sequential time-based system for safety.
  - It explains how fluidization allows smooth and even flow during discharge.

**Dust-Free**

- **Dust-Free Design**
  - Highlights the dust-free design, mentioning the use of solid flow meter and bar code reader.
  - It emphasizes the importance of dust-free design in maintaining product quality.

**WIP CIP System**

- **WIP CIP Functionality**
  - Describes the WIP CIP system, mentioning its use in cleaning and maintenance.
  - It explains how this system contributes to the overall efficiency of the process layout.

**Automatic Dosing**

- **Dosing System**
  - Explains the automatic dosing system, mentioning the use of a special effective air flow during cleaning.
  - It describes the importance of this system in maintaining product quality.

**Solids Flow Meter**

- **Flow Measurement**
  - Describes the solids flow meter, mentioning its use in measuring and controlling flows.
  - It emphasizes the importance of this measurement in maintaining product quality.

**Bar Code Reader**

- **Barcode Functionality**
  - Explains the bar code reader, mentioning its use in tracking and monitoring.
  - It describes how this technology is used in maintaining product quality.

**Compact Design, Safe Seal, Easy Dismantling**

- **Design Features**
  - Highlights the compact design, mentioning the use of safe seals and easy dismantling.
  - It emphasizes the importance of these features in maintaining product quality.