

 **DP Pulveriser**<sup>®</sup>  
since 1962

 **PerMix**  
Perfect Mixing Technologies



## **General Brochure**

*Precision in Every Particle*

## About Us

DP® Pulveriser Industries was established in the year 1962 by Mr. Eusebius Pinto. Over the past 63 years, we have installed and commissioned more than 7500 pulverising systems in more than 32 countries around the world. Our experience developed over the years backed by fundamental values of honesty and integrity has played a vital role in establishing DP, not just as a market leader but as a trustworthy brand. DP is mainly engaged in the manufacturing of grinding/pulverising and sizing/air classification equipment. DP has also forayed into turnkey projects with complete industrial automation capability.



## Why Choose DP?

- **Decades of Experience:** With over 60 years of global experience and 7,500 installations in 32 countries, we specialize in delivering customized size-reduction equipment and turnkey projects across diverse industries.
- **Enhanced Durability:** We use higher thicknesses for the machine body housing, resulting in lower noise and vibration.
- **Precision Engineering:** All our shaft bearing assemblies are verified using SKF bearing analysis software.
- **Advanced Design and Development:** We have a design and development center at the Research Park of the Indian Institute of Technology, Gandhinagar - Gujarat. Our superior technical know-how ensures accurate calculations for all design parameters, such as belt and pulley selection, gearbox selection, bearing and lubrication selection, metallurgy selection for wear parts, and motor power selection.
- **Proactive Maintenance:** Our expertise allows us to suggest precise maintenance schedules, such as correct bearing lubrication quantities, re-lubrication intervals, timely inspections, and wear parts changeover intervals.
- **Enhanced Safety Features:** We offer additional safety features such as door safety interlocks, guards for all exposed moving parts, and mechanisms for easy door opening and access.
- **Efficient Cyclonic Separators:** Our cyclonic separators are designed with volute type inlet and bottom vortex breaker resulting in better separation efficiency and lower material load in the dust collector.
- **Superior Build Quality:** Our machine build quality is unmatched.
- **Optimized Conveying Fans:** Our conveying fans are properly sized for airflow and static pressure based on the type of material processed, particle size, and mass flow rate.



# Our Offerings

## 1. Size Reduction & Grinding

### 1.a) Pulverisers & Classifier Mills

- 1.a.1 : DP® Impact Pulveriser IPR
- 1.a.2 : DP® Air Classifier Mill ACM

### 1.b) Counter Rotating Mills

- 1.b.1 : DP® CONTRA Pin Disc Mill CNT

### 1.c) Hammer & Screen Mills

- 1.c.1 : DP® Hammer Mill HMH
- 1.c.2 : DP® ZEVA Mill ZVM
- 1.c.3 : DP® CONE Mill

### 1.d) Crushers & Lump Breakers

- 1.d.1 : DP® Lump Breaker LBK
- 1.d.2 : DP® Impact Crusher ICR

### 1.e) Knife Cutting Mills

- 1.e.1 : DP® KNIVA Knife Granulator KNV

### 1.f) Universal Mills

- 1.f.1 : DP® UNIVA Series Pin Disc Mill UNV-PD
- 1.f.2 : DP® UNIVA Series Plate Beater Mill UNV-PB
- 1.f.3 : DP® UNIVA Series Swing Beater Mill UNV-SB
- 1.f.4 : DP® UNIVA Series Bar Turbo Mill UNV-BT
- 1.f.5 : DP® UNIVA Series Attrition Disc Mill UNV-AD
- 1.f.6 : DP® UNIVA Series Knife Rotor Mill UNV-KR

## 2. Sizing & Air Classification

### 2.a) Air Classifiers

- 2.a.1 : DP® AEROVA Centrifugal Air Classifier ARV

### 2.b) Centrifugal Sifter

- 2.b.1 : DP® CENTRI Sifter

### 2.c) Vibratory Sifter

- 2.c.1 : DP® VIBRO Sifter

## 3. Pollution Control Equipment

### 3.a) Dust Collectors

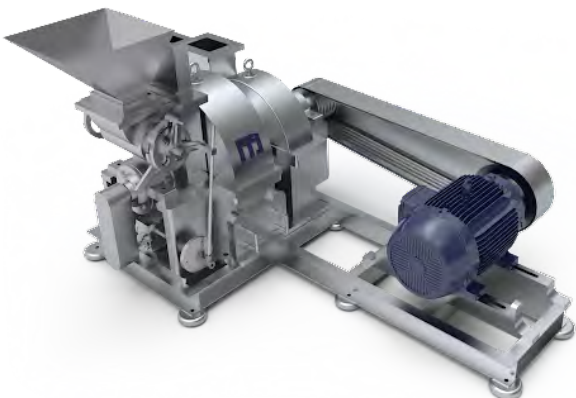
- 3.a.1 : DP® Pulse Jet Dust Collector

## 4. Other Technologies

### 4.a) Dry Protein Shifting

- 4.a.1 : DP® PROTEINOVA

### 1.a.1 : DP® Impact Pulveriser IPR



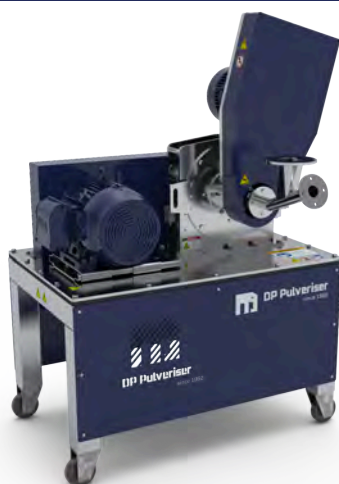
The DP® Impact Pulveriser is a compact, screen-less hammer mill that integrates feeding, grinding, and air classification in a single unit. It offers adjustable fineness from 60 to 300 mesh. The whizzer classifier gap can be easily modified for coarse or fine output. The mill runs on a single motor and allows flexibility in hammer configuration based on the material. An integrated impeller on the common shaft eliminates the need for an external fan, enabling efficient pneumatic conveying and consistent performance across a wide range of materials.

### 1.a.2 : DP® Air Classifier Mill ACM

The DP® Air Classifier Mill is a fine impact mill with an integrated dynamic air classifier, designed for efficient, precise, and continuous powder processing. Its optimized grinding chamber, high airflow, and efficient material conveyance make it ideal for heat-sensitive materials and those prone to sedimentation. This all-in-one system enables impact grinding and air classification in a single step, ensuring consistent particle size and superior product quality.



### 1.b.1 : DP® CONTRA Pin Disc Mill CNT



The DP® CONTRA Pin Mill is a high-performance grinding solution engineered for handling a wide variety of materials, including greasy, sticky, or heat-sensitive substances that challenge traditional mills. Its dual pin discs rotate in opposite directions, delivering efficient and uniform size reduction without screens—preventing blockages and minimizing heat generation. This is especially critical for spice grinding, where preservation of volatile oils is essential. For even finer and cooler grinding, the system can be equipped with a cryogenic screw conveyor using liquid nitrogen to achieve sub-zero temperature processing.

### 1.c.1 : DP® Hammer Mill HMH

The DP® Hammer Mill is a robust and efficient grinding machine designed for coarse to medium fine size reduction of a wide variety of materials. It operates on the principle of impact, where rotating hammers strike the material, breaking it down into smaller particles.



### 1.c.2 : DP® ZEVA Mill ZVM



The DP® Zeva Mill Bread Crumb Grinder is a high-performance milling solution designed for precise and uniform particle size reduction in food applications like breadcrumbs, coatings, spices, and more. Featuring a high-speed rotor with precision blades, it ensures efficient grinding with adjustable output fineness. With scalable capacities, energy efficiency, and customizable options, the Zeva Mill is ideal for both small labs and large-scale production.

The DP® Cone Mill is a versatile size reduction machine used for gentle and consistent grinding, granulation, and de-agglomeration of dry and wet materials. Ideal for the food, pharmaceutical, and chemical industries, it ensures uniform particle size with minimal heat generation and dust. Its conical screen and rotating impeller design allow for controlled, low-energy milling. Easy to clean and maintain, the DP® Cone Mill is perfect for achieving efficient, hygienic, and repeatable processing results.



## 1.d.1 : DP® Lump Breaker LBK



The DP® Lump Breaker is designed to crush compacted, lumpy, or agglomerated materials back into free-flowing powder or granules. Ideal for breaking lumps formed during production, storage, or transport, it ensures smooth downstream processing. The machine features specially shaped rotating blades that pass through a fixed mesh, delivering efficient and uniform lump reduction. It can be installed inline with your existing system using our compact inline design or operated independently with our standalone unit.

## 1.d.2 : DP® Impact Crusher ICR

The DP® Impact Crusher is engineered for efficient and reliable crushing of medium to hard materials. Using high-speed impact force, it breaks down stones, minerals, and industrial waste into uniform particles. Ideal for mining, cement, and recycling applications, this crusher delivers high reduction ratios and consistent output. With a rugged build, easy maintenance, and customizable configurations, the DP® Impact Crusher ensures maximum uptime and performance, making it a trusted choice for demanding size reduction operations.



## 1.e.1 : DP® KNIVA Knife Granulator KNV



The DP® KNIVA Knife Granulator [KNV] is a high-performance pre-cutter designed for fibrous and leafy materials like spices, tea leaves, and herbs. Engineered for precision, it delivers clean and uniform cuts that improve the efficiency and consistency of downstream grinding processes. With its sturdy construction and low-maintenance design, the KNV ensures reliable performance and minimal product degradation, making it an essential solution for pre-crushing in spice and herbal processing lines.



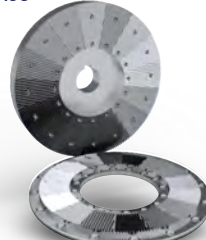
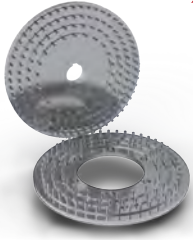
## 1.f) Universal Mills

The DP® Universal Mill is a versatile mechanical impact mill designed to reduce particle size through high-energy impact. What sets it apart is its interchangeable grinding tools—such as pin, turbo, disc, or swing beater assemblies—allowing it to adapt to a wide range of materials and fineness requirements. This flexibility enables the mill to handle varying feed characteristics and deliver consistent particle size distribution. By combining the functionality of multiple mills within a single compact housing, the DP® Universal Mill offers exceptional grinding versatility while minimizing the need for additional capital equipment investment.



➤ 1.f.3 : Swing Beater

➤ 1.f.5 : Attrition Disc



➤ 1.f.1 : Pin Disc



➤ 1.f.2 : Plate Beater

➤ 1.f.4 : Bar Turbo

➤ 1.f.6 : Knife Rotor

## 2.a.1 : DP® AEROVA Centrifugal Air Classifier ARV



The DP® Air Classifier is an efficient and precise particle separation system designed to classify dry powders based on size, shape, or density using a controlled airflow. It operates without screens, making it ideal for fine and ultrafine classification where mesh blockage is a concern. Adjustable rotor speed and airflow allow precise cut-point control, ensuring consistent and uniform particle size distribution.

## 2.b.1 : DP® CENTRI Sifter

The DP® CENTRI Sifter is a high-performance centrifugal screening machine engineered for efficient separation of powders and granules. Designed for materials with low bulk density, it uses a rotating paddle mechanism to push material through a cylindrical mesh, ensuring high-capacity, clog-free screening. The fully enclosed system offers dust-free operation, making it ideal for food, pharma, chemical, and other hygiene-sensitive industries.



## 2.c.1 : DP® VIBRO Sifter



The DP® Vibro Sifter is an efficient screening machine designed for separating and grading dry powders and granules. Using multi-directional vibrations, it ensures precise particle separation and consistent output across one or multiple screens. With a compact design and low maintenance, the DP® Vibro Sifter is a reliable choice for achieving uniform quality in solid material processing.

## 3.a.1 : DP® Pulse Jet Dust Collector

The DP® Pulse Jet Dust Collector is a highly efficient filtration system designed to capture fine dust particles from industrial processes. It uses short, high-pressure air pulses to clean the filter bags, ensuring continuous and consistent airflow. Ideal for applications involving grinding, mixing, conveying, and other dust-generating operations, this collector offers reliable dust control with minimal maintenance. Its compact design, quick bag replacement system, and durable construction make it suitable for industries such as food processing, chemicals, minerals, and pharmaceuticals.



## 4.a.1 : DP® PROTEINOVA



The DP® PROTEINOVA System is an advanced dry fractionation solution engineered to produce functional, plant-based protein concentrates with high sustainability. Combining the precision grinding of the DP® Air Classifier Mill and the sharp separation capability of the DP® AEROVA Air Classifier, this integrated system efficiently separates protein-rich fine particles from starch and fiber components in legumes. Unlike wet methods, it requires no water or chemicals, preserving the native functionality, solubility, and nutritional value of proteins. Ideal for producing natural, clean-label protein concentrates, the DP® PROTEINOVA System supports eco-friendly, high-yield processing for modern plant-based food applications.





**DP@ ACM-2 lab scale mill ready before dispatch**



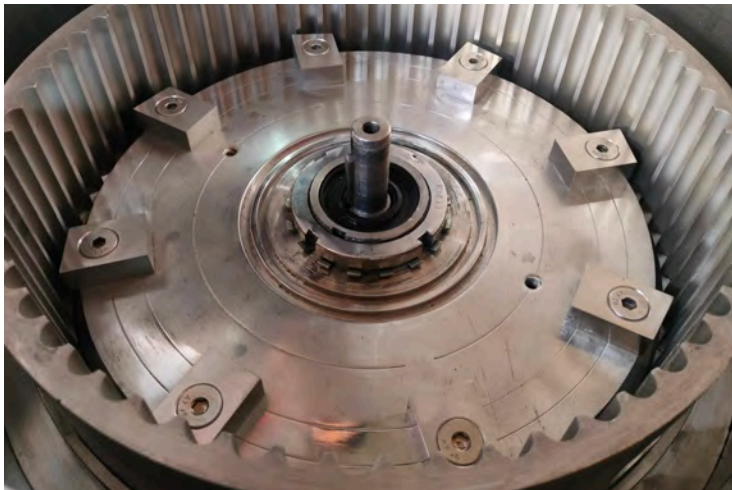
**DP@ ACM-10 in SS304 contact and non-contact parts**



**DP@ ACM-15 for pigment grinding before dispatch**



**DP@ ACM-60 for sea weed grinding before dispatch**



**Internal view of the grinding chamber of DP@ ACM-10**



**DP@ ACM-15 system installed at BPCL, Delhi for biomass grinding**



**DP@ ACM-5 for grinding legumes before dispatch**



**DP@ ACM-30 for grinding of synthetic graphite**



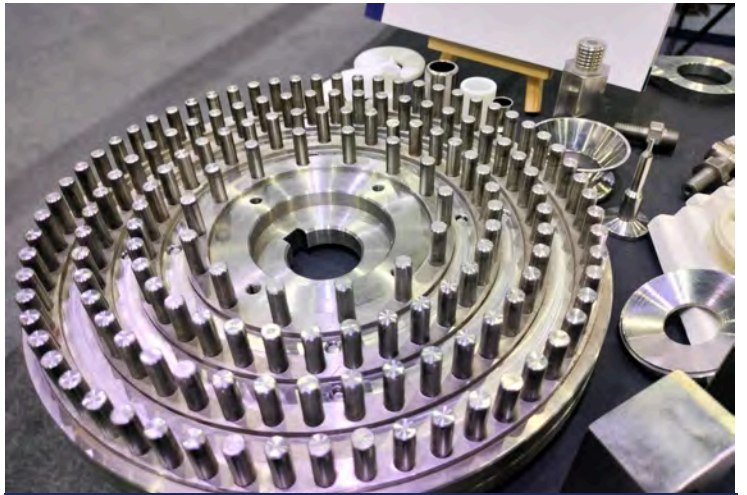
DP@ UNV-640PB for biscuit grinding before dispatch



DP@ UNV-320PD-EX [explosion-resistant design] for sugar grinding



DP@ UNV-320BT for grinding of tea-fibre



Pin rotor disc of DP@ UNV-320PD



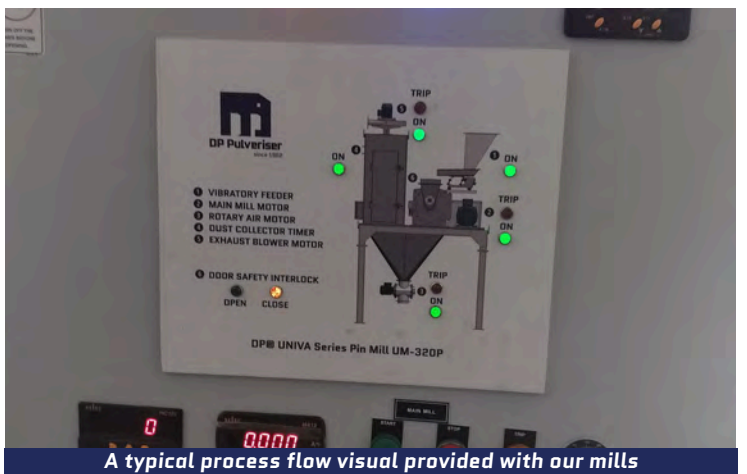
DP@ UNV-320PD for grinding of potato flakes before dispatch



DP@ UNV 160PD GMP Design for grinding of herbs



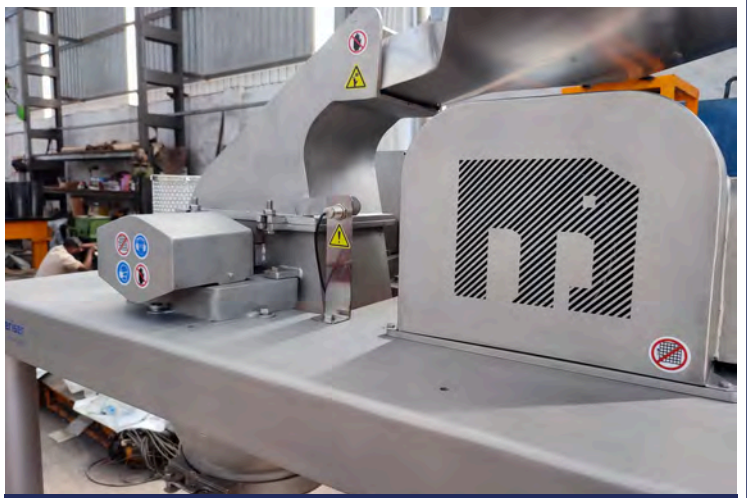
DP@ UNV-255PB before dispatch to Guatemala



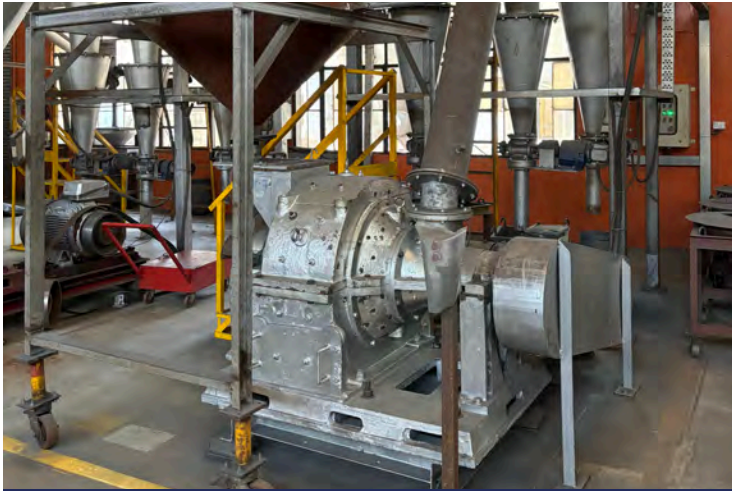
A typical process flow visual provided with our mills



2 Nos. DP@ CNT-320 CONTRA Pin Mill for potato flakes grinding



DP@ ZEVA Mill for grinding of breadcrumbs



DP@ IP-32 Impact Pulveriser for grinding of iron powder



DP@ CNT-255 CONTRA Pin Mill



DP@ Liquid Dosing Tank system ready to ship to the middle-east



DP@ ARV-120 AEROVA for dry protein shifting application



DP@ IP-52 Impact Pulveriser driven by 215 HP motor



DP@ Multi-processing System in Dammam, Saudi Arabia



IndusFood Manufacturing 2025, Delhi



IndusFood Manufacturing 2025, Delhi



Smart Protein Forum 2024, TDU Bangalore



InFlavour Expo 2023, Riyadh, Saudi Arabia



Anuga FoodTec 2024, Mumbai



IndusFood Manufacturing 2025, Delhi



Amalthea IIT Gandhinagar, 2024



Amalthea IIT Gandhinagar, 2023



## Our Global Footprint

Australia Bahrain Bangladesh Bhutan Canada China Estonia  
Bremen Ghana Hongkong Iran Indonesia Kenya Mauritius  
Mexico Malaysia Newzealand Nepal Nigeria Oman Philippines  
Saudi Arabia South Africa Singapore Sri Lanka Tanzania  
Qatar U.A.E Guatemala Zambia Uruguay

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