



**CHANDRATECH**

Q U A L I T Y . R E L I A B I L I T Y . T R U S T

**CHEMICAL PROCESSING SOLUTIONS SINCE 1988**



**CHANDRATECH**  
QUALITY . RELIABILITY . TRUST

**Dust Collector**



**Bar Turbo Mill**

Fineness upto 5-10 microns  
Capacity - Upto 600 kg/hr

**Classifier**

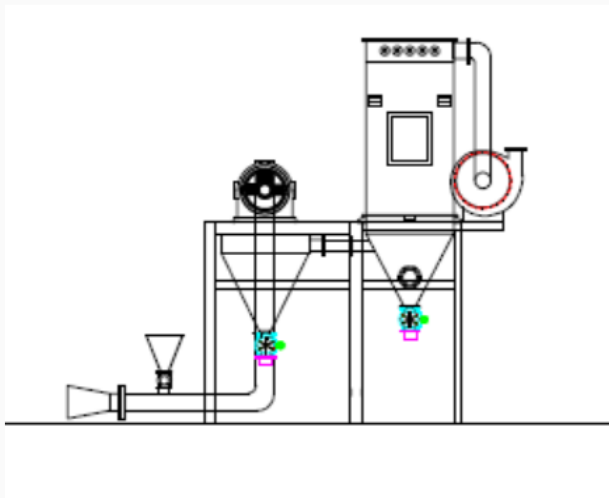


**Grinding Mill**



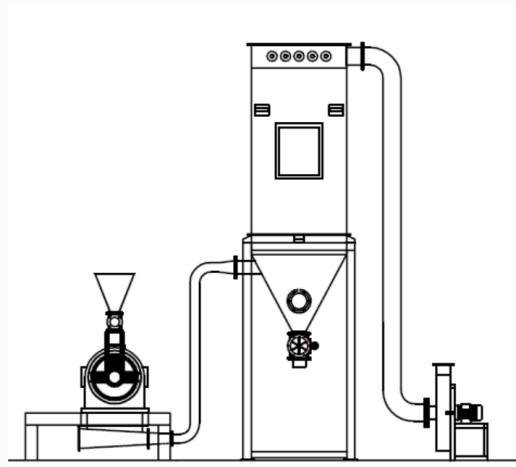
# DIFFERENT LAYOUTS

## GRAVITY/ BUNKER DESIGN



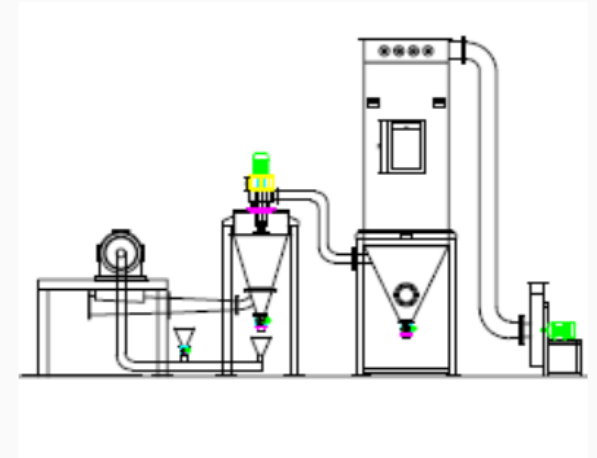
- Compact design
- Suitable for slightly sticky materials
- We recommend this for Chrome Pigment

## PNEUMATIC CONVEYING SYSTEM



- Suitable for free flowing non-sticky materials
- We have supplied this system for Organic Pigments

## CLASSIFYING SYSTEM



- Suitable for non sticky material
- Additional classifier for further particle size separation

# TYPES OF ROTORS

## BAR MILL ROTOR



Suitable for slightly sticky material like Chrome Pigment

## BAR TURBO ROTOR



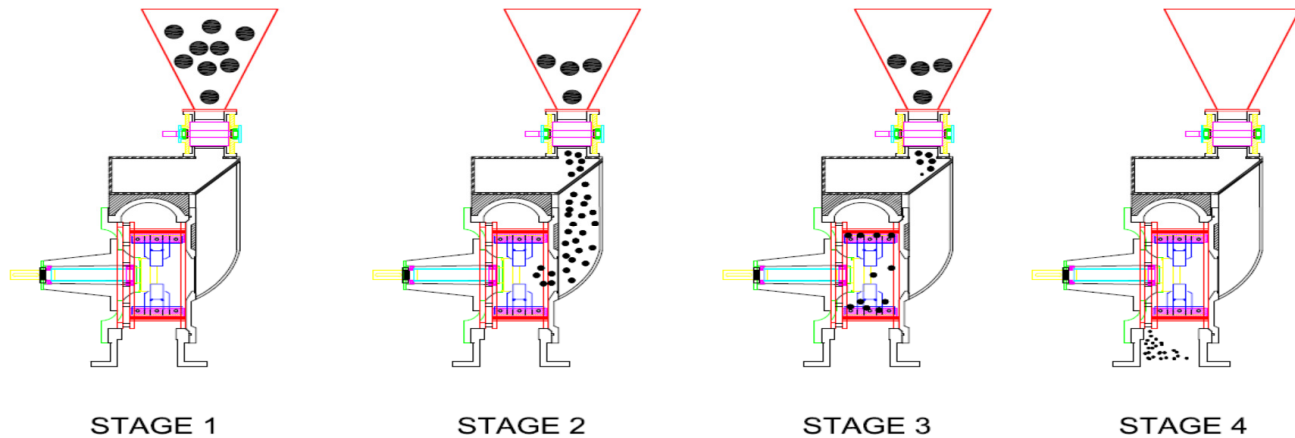
The turbine type rotor (that's where it gets its name from) generates good amount of airflows making it suitable for heat sensitive material

## CROSS BAR TURBO ROTOR



Similar to Bar-Turbo, the angled blades however increases the material retention time in the chamber deliver further fine particles

# WORKING PRINCIPLE



The working principle can be explained in 4 stages

**Stage 1:** Charging through main hopper

**Stage 2:** Rotary Air Lock feeder delivers a uniform supply to the grinding chamber

**Stage 3:** The material enters the grinding chamber axially and get grinded at 360 degrees along the serrated liner plates

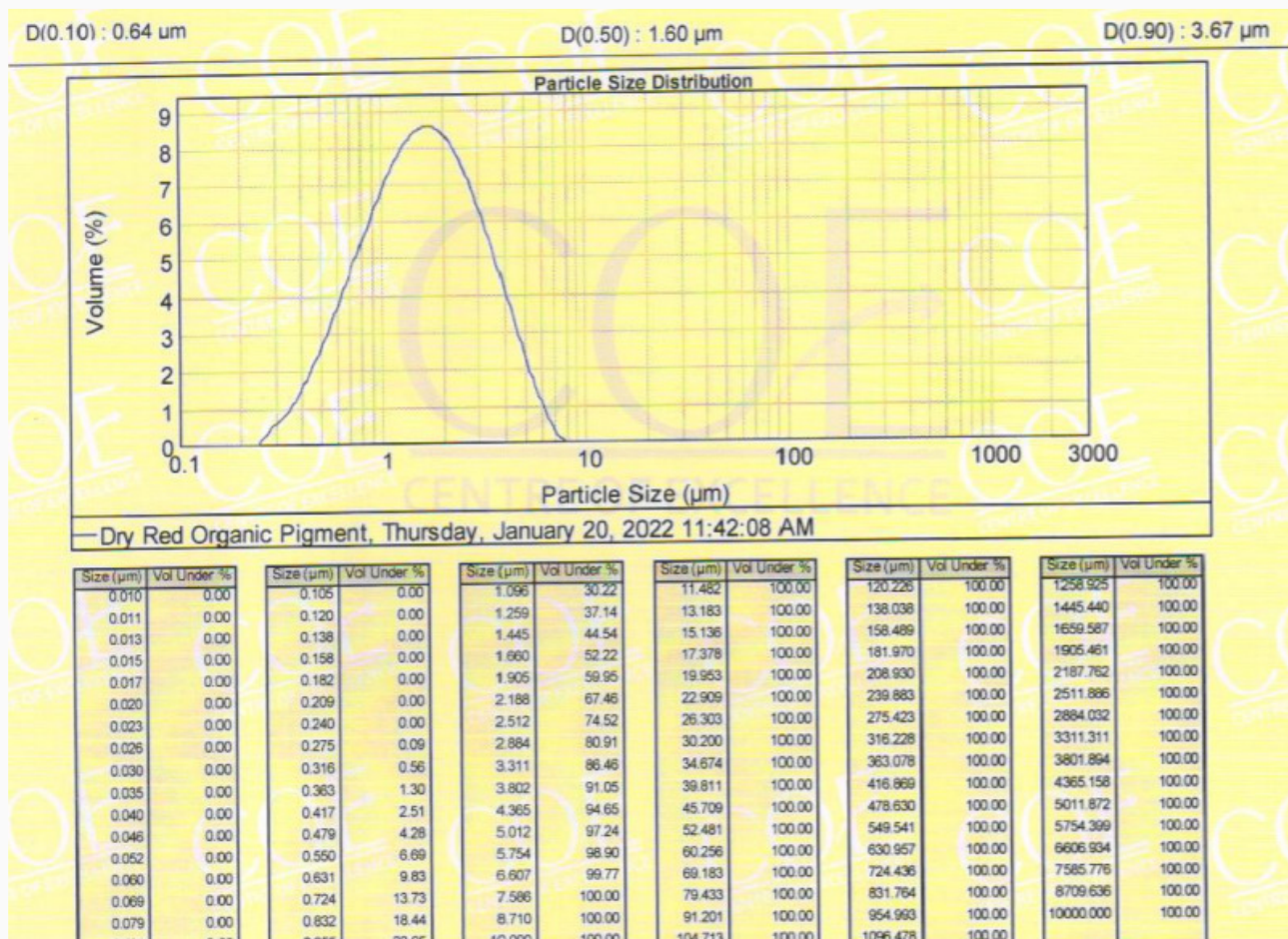
**Stage 4:** The fine particles exit the grinding chamber through the opening on the liner frame at the back end of the chamber



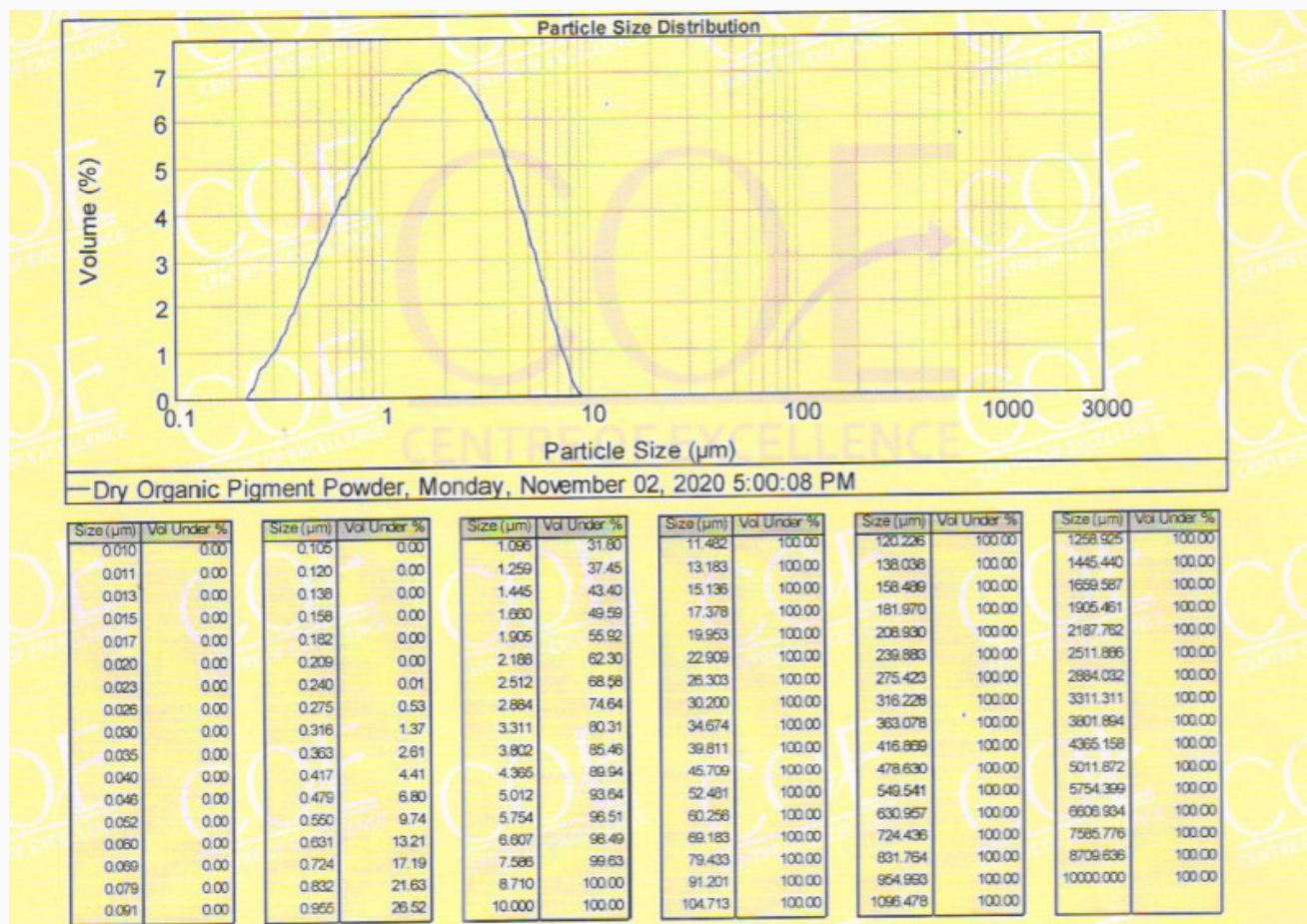
We control the fineness and production capacity using the following parameters

- Gap at the liner end
- Suction head of blower
- No of serrations on the liner
- No of blades
- Feed rate of the rotary feeder

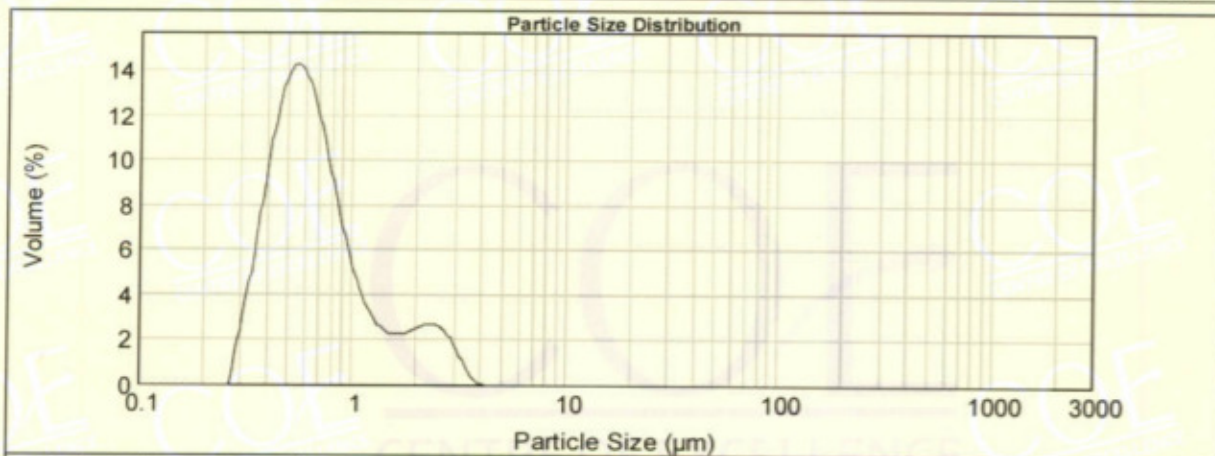
# TEST RESULTS – RED ORGANIC PIGMENT (HPP)



# TEST RESULTS – YELLOW ORGANIC PIGMENT (FOOD COLOR)



# TEST RESULTS – CHROME PIGMENT



— Scarlet Chrome, Thursday, December 16, 2021 12:27:31 PM

Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %
0.010	0.00	0.105	0.00	1.096	81.67	11.482	100.00	120.226	100.00	1258.925	100.00
0.011	0.00	0.120	0.00	1.259	84.81	13.183	100.00	138.038	100.00	1445.440	100.00
0.013	0.00	0.138	0.00	1.445	87.14	15.136	100.00	158.489	100.00	1659.567	100.00
0.015	0.00	0.158	0.00	1.660	89.16	17.378	100.00	181.970	100.00	1905.461	100.00
0.017	0.00	0.182	0.00	1.905	91.20	19.953	100.00	208.930	100.00	2187.762	100.00
0.020	0.00	0.209	0.00	2.188	93.45	22.909	100.00	239.883	100.00	2511.886	100.00
0.023	0.00	0.240	0.00	2.512	95.87	26.303	100.00	275.423	100.00	2884.032	100.00
0.026	0.00	0.275	0.00	2.884	98.06	30.200	100.00	316.228	100.00	3311.311	100.00
0.030	0.00	0.316	1.76	3.311	99.52	34.674	100.00	363.078	100.00	3801.894	100.00
0.035	0.00	0.363	6.13	3.802	99.98	39.811	100.00	416.869	100.00	4365.158	100.00
0.040	0.00	0.417	13.78	4.365	100.00	45.709	100.00	478.630	100.00	5011.672	100.00
0.046	0.00	0.479	24.49	5.012	100.00	52.481	100.00	549.541	100.00	5754.399	100.00
0.052	0.00	0.550	37.02	5.754	100.00	60.256	100.00	630.957	100.00	6606.934	100.00
0.060	0.00	0.631	49.75	6.607	100.00	69.183	100.00	724.436	100.00	7585.776	100.00
0.069	0.00	0.724	61.19	7.586	100.00	79.433	100.00	831.764	100.00	8709.636	100.00
0.079	0.00	0.832	70.36	8.710	100.00	91.201	100.00	954.993	100.00	10000.000	100.00
0.091	0.00	0.955	77.07	10.000	100.00	104.713	100.00	1096.478	100.00		



## SOME OF OUR SYSTEMS IN OPERATION



**ORGANIC (FOOD COLOR)  
APPLICATION**



**CHROME PIGMENT APPLICATION**



**ORGANIC PIGMENT APPLICATION**

# EQUIPMENT RANGE

## HAMMER TYPE MILLS

- MICRO PULVERIZER
- IMPACT PULVERIZER
- HAMMER MILLS

## FINE GRINDING MILLS

- AIR CLASSIFIER MILL
- UNIVERSAL MILL
  - CROSS BAR BEATER
  - PIN MILL
  - BAR MILL
  - BAR TURBO MILL
  - CROSS BAR TURBO

## COARSE GRANULATION

- MULTI MILL
- PLASTIC GRINDER
- DE-LUMPER
- JAW CRUSHER
- WET MATERIAL CRUSHER

## MEDIA GRINDING MILLS

- BALL MILLS
- ATTRITOR
- SAND MILL
- COLLOID MILL



# EQUIPMENT RANGE

## MIXING

- RIBBON BLENDER
- CONE BLENDER
- VERTICAL SCREW BLENDER
- AGITATORS
- KNEADER



## HEATING

- TRAY DRYER
- ROTARY VACCUM DRYER



## DUST COLLECTION & CONVEYING

- SCREW CONVEYOR
- BELT CONVEYOR
- BAG HOUSE/ DUST COLLECTORS
- VIBRATING SCREEN
- TROMMEL SCREEN



# THANK YOU

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