

INDOFAB
INDUSTRIES

Process Equipment Manufacturers

ISO 9001:2015 Certified Company



Process Equipment Manufacturers

SEDIMENTATION | FILTRATION | MIXING

HYDROCYCLONE



INDOFAB Hydrocyclone is a mechanical processing device that uses pressure energy to create rotational motion in a body of liquid, thus generating a centrifugal force that separates one material from another, solids from liquid or Coarse Particles from fines. INDOFAB Hydrocyclone is essentially a simple instrument and can be effectively used to perform a wide range of separation functions in process Industry.

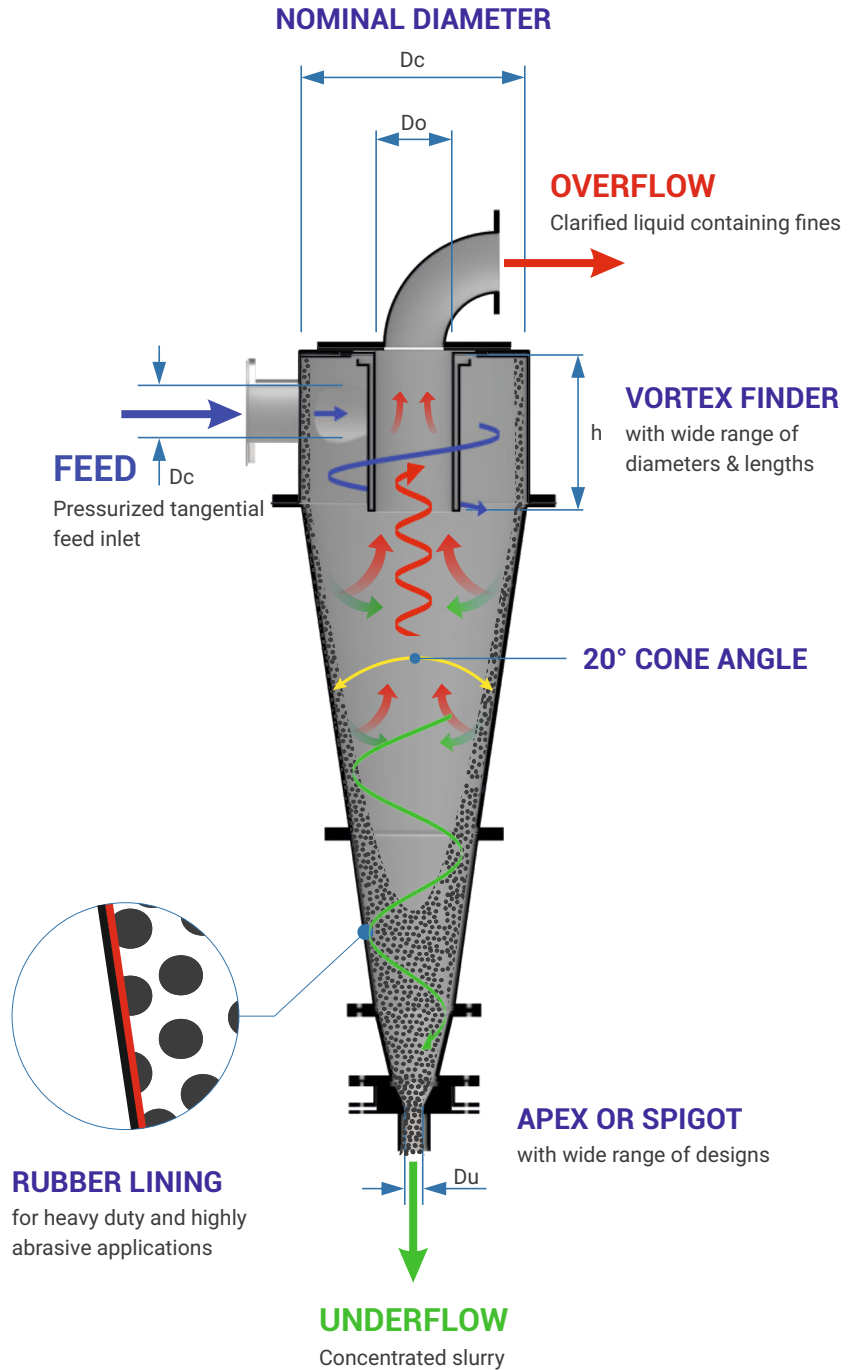
How it works :

The feed liquid/slurry enters into the cylindrical feed chamber tangentially, with sufficient velocity to create a vortex or spiral flow pattern in the cono-cylindrical shell. Centrifugal action (many times that of gravity) forces the heavier particles (grit) to the walls of the cone where the solids spin toward the apex and discharge through the apex opening. The lighter solids flows to the centre of the vortex and exits through the overflow outlet.

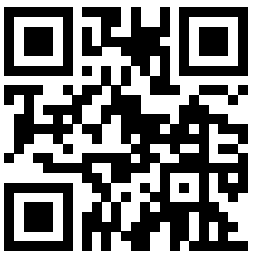
EFFECT OF CYCLONE DESIGN AND OPERATING VARIABLES ON PERFORMANCE

| Increasing | Throughput (Q) | Cut Size (d50) | Sharpness of classification |
|-------------------------------|----------------|----------------|-----------------------------|
| Nominal diameter, D_c | ↑ | ↑ | ↑ |
| Vortex finder diameter, D_o | ↑ | ↑ | ↑ |
| Apex Diameter, D_u | ↑ | ↓ | ↓ |
| Feed Inlet, D_i | ↑ | ↓ | ↓ |
| Vortex height, h | ↓ | ↓ | ↓ |
| Pressure drop, ΔP | ↑ | ↓ | ↑ or ↓ |
| Feed solids concentration | ↑ | ↑ | ↓ |

NOTE: ↑ increase; ↓ decrease



TYPICAL CROSS SECTION OF HYDROCYCLONE



SCAN QR CODE TO DOWNLOAD OUTLINE DRAWING FOR HYDROCYCLONE

FEATURES:

- Completely lined with natural gum rubber or PU
- Replaceable liners up to 12" diameter
- Renewable liners in larger sizes.
- Housings are cast iron and fabricated steel
- Wide range of vortex finders and apex sizes
- Available in single and multiple arrangements

PERFORMANCE - Indofab designed performance is based on sand (specific gravity 2.7) and water with feed concentration below 20% by weight, guarantees upto 90% particle size separation..

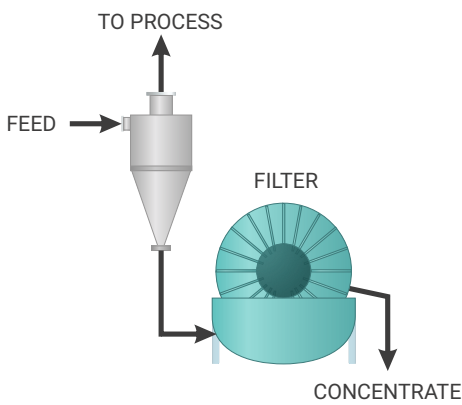
MAINTENANCE - Low maintenance due to abrasion-resistant, resilient liners. Extremely rugged housing design practically eliminates housing failures due to mechanical abuse.

SPECIFICATIONS

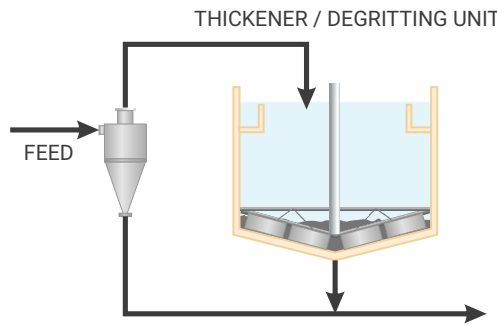
- **SEPARATION RANGE:** 30 to 200 Microns
- **THROUGHPUT CAPACITY:** 2 to 1500 cubic meter per hour in single unit
- **NOMINAL SIZES:** 75, 100, 150, 300, 450, 600, 900 & 1200 mm
- **MATERIAL OF CONSTRUCTION:** Ni-Hard, SS304, SS316, CS
- **LINING:** RUBBER, POLYURETHANE (PU)



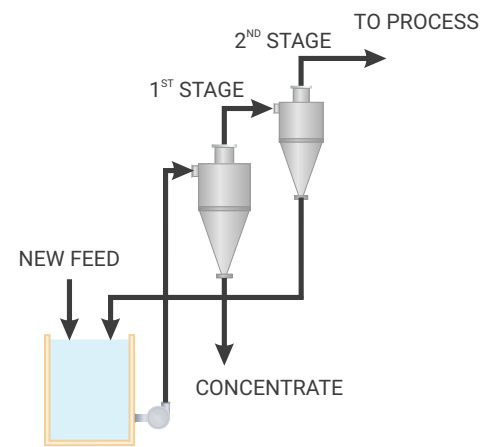
TYPICAL APPLICATIONS



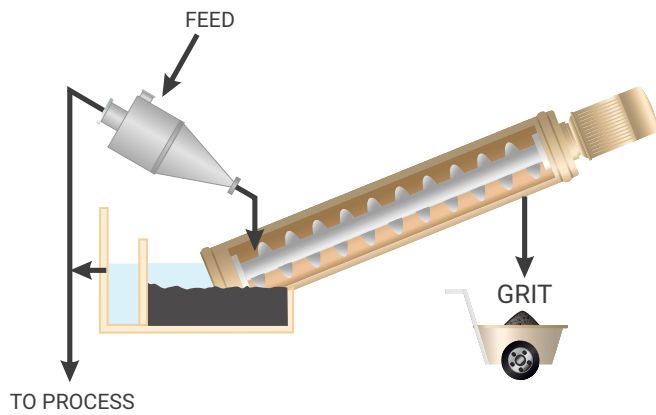
PRECONCENTRATION OF FILTER FEED



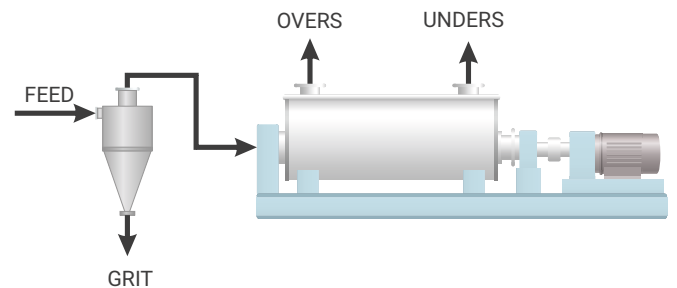
COARSE SOLIDS REMOVAL FROM THICKENER OR DEGRITTING FEED



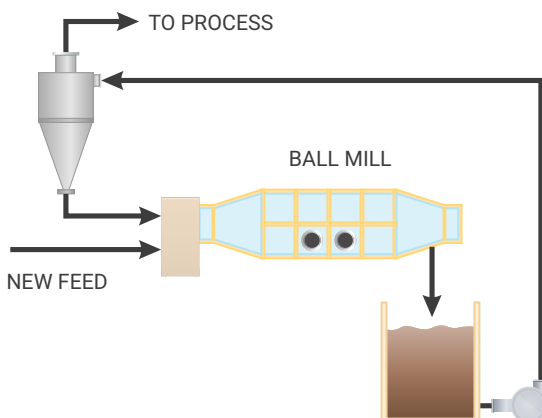
TWO STAGE CLARIFICATION OR CONCENTRATION SYSTEM



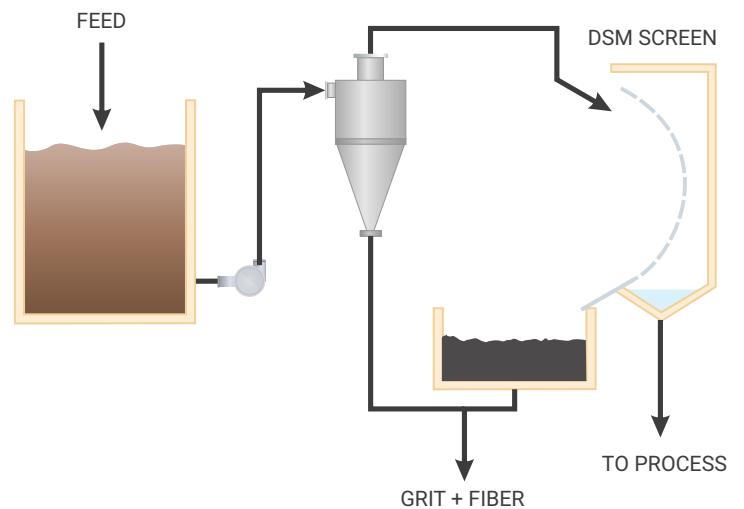
DEGRITTING AND GRIT WASHING WITH CLASSIFIER



CENTRIFUGE FEED DEGRITTING



CLOSED CIRCUIT GRINDING



COMBINED FIBER AND DEGRITTING SYSTEM

INDOFAB INDUSTRIES

Process Equipment Manufacturers

ISO 9001:2015 Certified Company

INDOFAB INDUSTRIES is a well-known name for supply of Quality Process Equipments for past 36 years. The company has its legacy of working with top notch EPC contractors and Consultants, serving large size Project requirements for Government & Private Organizations.

INDOFAB is an ISO 9001:2015 Certified company for Design & Manufacture of Industrial Process Equipments in the field of solid-liquid separation; working for diverse Industries like WTP, ETP, STP, Municipal/Industrial Water & Waste Water Treatment, Paper & Pulp, Mineral Processing & Ore Beneficiation and Milk of Lime Plants.

The company has In-house Design, Testing, Pilot Facilities for Establishing its designs & continues to deploy latest Analysis/Design tools for Process Equipment Design. Combined with In-house Manufacturing Capacity with over 44000 Sq.Ft. Working area with 8 EOT Cranes facilitates working of about 100+ team turning out more than 1150 tons of steel per annum.

Strategically located facilities in & around Mumbai our office & manufacturing facilities are easily accessible for representatives, heavy vehicles & port facilities. We at INDOFAB are glad to retain more than 75% of our repeat clients due to our efficient after sales spares & services for decades together.

Few of our Esteemed Clients / Consultants we work for



Email: sales@indofab.com & operations@indofab.com

Tel : 91-22-28111326 / 28113414 Fax:91-22-28111850

Office & Factory: C/3-4-5 Hatkesh Udyog Nagar, Kashimira Bhayander Road, Post: Mira, Dist. Thane. Maharashtra INDIA. 401107

ENGINEERED TO LAST...

www.indofab.com