

# Bottom Discharge Centrifuge TM model



For the efficient separation of solids and liquids in a single sealed environment  
Fine chemicals – active pharmaceutical ingredients



Fully inspectable  
version (TM/GMP)

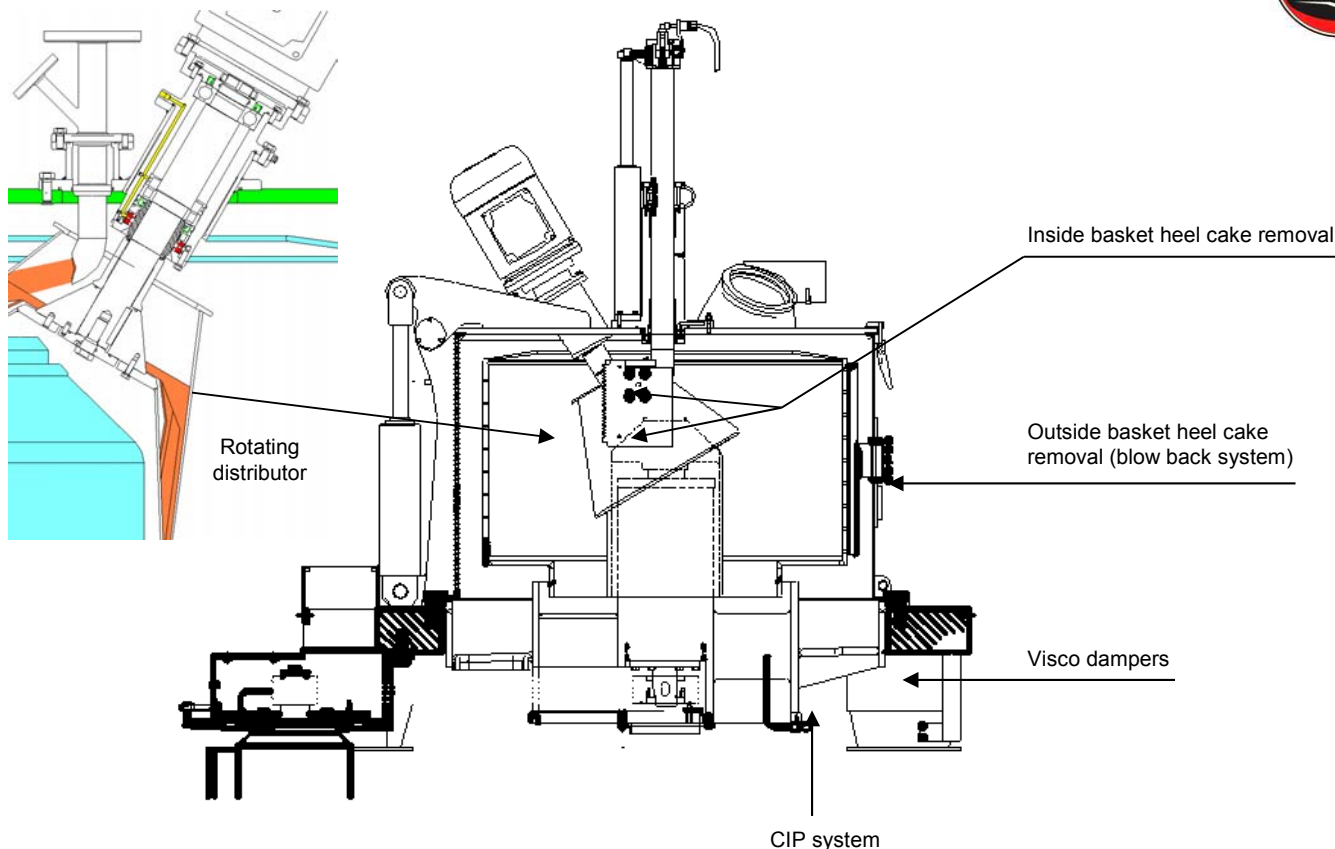
**COMI CONDOR S.p.A.** -

**Centrifuge technology since 1920**

I – 20019 SETTIMO MILANESE (MI) - Via A. Volta, 6 - ITALIA – Phone +39 02 3357991 - Fax +39 02 33500439

visit [www.comicondor.com](http://www.comicondor.com) or ask [comi-comm@comicondor.com](mailto:comi-comm@comicondor.com) for details

# Bottom Discharge Centrifuge Design & Specifications



## FIELD OF APPLICATION AND CHARACTERISTICS

- production of chemical and bulk pharmaceutical products from synthesis processes
- product requiring a large filtering area
- suitable for toxic and flammable products, where avoidance of contacts between product and operator is mandatory
- the centrifuge may be constantly kept under inert atmosphere with a small overpressure, as per DIN 24400, 400 mm WC
- filter cloth mounted into the basket by rings; replacement is very easy and quick
- rotating distributor for feeding and washing allowing a uniform cake distribution which avoids unbalance
- construction materials: aisi 316L(DIN 1.4404), Hastelloy C, Titanium, 904L, or others
- surface coating: Halar, ETFE
- mirror like or electrochemical polishing are also available
- relatively limited horizontal space required
- suspension can be on three columns or on inertia base on elastic dampers, which transfer low dynamic loads to the foundations

- actuation of the basket and of the optional rotating cone by electric motors with frequency converters. Knife and cover opening are hydraulically operated
- the lubrication is by grease for every model
- high level FDA qualification documentation to complete the plant FDA qualification book

## CONTROL OPTIONS

- complete PLC controls with touch screen interface
- switch between automatic and manual operation
- variable frequency drive (VFD) speed control
- ATEX electrical enclosures
- optional instrumentation integrated into the control system including oxygen monitoring, temperature, pressure, liquid feed flow, N<sub>2</sub> purge flow, effluent particle detection and fluid clarity



## AFTER-MARKET SUPPORT

- field service & technical support available 24/7
- mechanical and electrical parts
- process control and maintenance manuals
- certifications and construction documentation
- mechanical and electrical upgrades



Centrifuge Model TM	Units	800/250	800/400	1000/500	1000/630	1250/700	1250/800	1600/800	1600/1000	1600/1250
Basket diameter	mm	800	800	1000	1000	1250	1250	1600	1600	1600
Basket length	mm	250	400	500	630	700	800	800	1000	1250
Filtering surface	m <sup>2</sup>	0,63	1,01	1,57	1,98	2,75	3,14	4,02	5,03	6,28
Cake volume	dm <sup>3</sup>	63	100	200	250	400	500	800	1000	1280
Slurry density	kg/dm <sup>3</sup>	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25
Maximum basket load	kg	79	125	250	312	500	625	1000	1250	1600
Maximum basket speed	RPM	1650	1500	1200	1200	950	950	850	850	850
G-factor x g	G	1216	1006	805	805	631	631	646	646	646
Centrifuge weight	kg	1500	2000	2200	4500	3800	4200	8200	9000	9800