



CENTRIFUGES

(TOP DRIVEN BOTTOM DISCHARGE TYPE)



NSI EQUIPMENTS PVT LTD

CENTRIFUGES

PRINCIPLE :

In basket centrifuge, the solids & liquids are separated by centrifugal force using a filter media(usually a cloth) mounted over supporting mesh, which are together supported inside the rotating basket. The slurry to be filtered is fed through top to the rotating basket and due to centrifugal force the liquid is forced out through the filter media and the solids are retained within the filter media inside the basket. These solids are separated and discharged through the pockets provided at the bottom of the basket after lifting the release valve manually or through pneumatic / hydraulic cylinder.

SUSPENSION / MOUNTING :

The centrifuge is single point suspension system where the basket is suspended through a central spindle top in the bearing housing. The centrifuge is mounted in a single joist frame with working platform.

BASKET :

The basket is suspended through a single spindle top in the bearing housing. The basket shell is adequately thick to withstand the loads caused by the centrifugal forces developed by the charge. It is perforated and consists of ample holes for speedy retraction of water / solvent. The centrifuged product is discharged through pockets provided at the bottom of the basket after lifting the release valve manually or through pneumatic / hydraulic cylinder. The complete basket is DYNAMICALLY BALANCED.

OUTER CAGE (Monitor Cage) :

The centrifuge has an outer cylindrical cage with a dished open top and is flanged with the monitor shell. The monitor cage is held on to the frame through suitable supporting cleats. A tangential outlet is provided at the bottom to collect mother liquor.

BEARING HOUSING :

The bearing housing is made of quality C.I. Casting having accurate bearing seat machined to seat the bearings and mounted at top of frame & it can take up the radial & axial load.

RELEASE VALVE :

A release valve is provided inside the basket which covers the discharge pockets during the operation of the centrifuge. After centrifuging the product, the solids formed inside the basket shell are scrapped manually and

discharged through the pockets after lifting the release valve. The valve is operated either manually or through pneumatic / hydraulic cylinders.

CENTRIFUGAL CLUTCH / FLUID COUPLING :

Either mechanical clutch or fluid coupling fitted on the motor shaft which ensures a smooth gradual loading on the drive motor.

WORKING PLATFORM :

The centrifuge is supplied with the working platform attached with base frame for easy operation for Model NSI-TD-36 & NSI-TD-48.

BRAKE SYSTEM :

Mechanical, ferrodo lined hand operated braking system is provided on the centre shaft above the basket to stop the rotating basket after switched off the drive motor. Dynamic braking facility is also available through pneumatic / hydraulic cylinder.

MATERIAL OF CONSTRUCTION :

Material of construction of contact parts could be Mild Steel, Stainless Steel, Rubber lined etc.



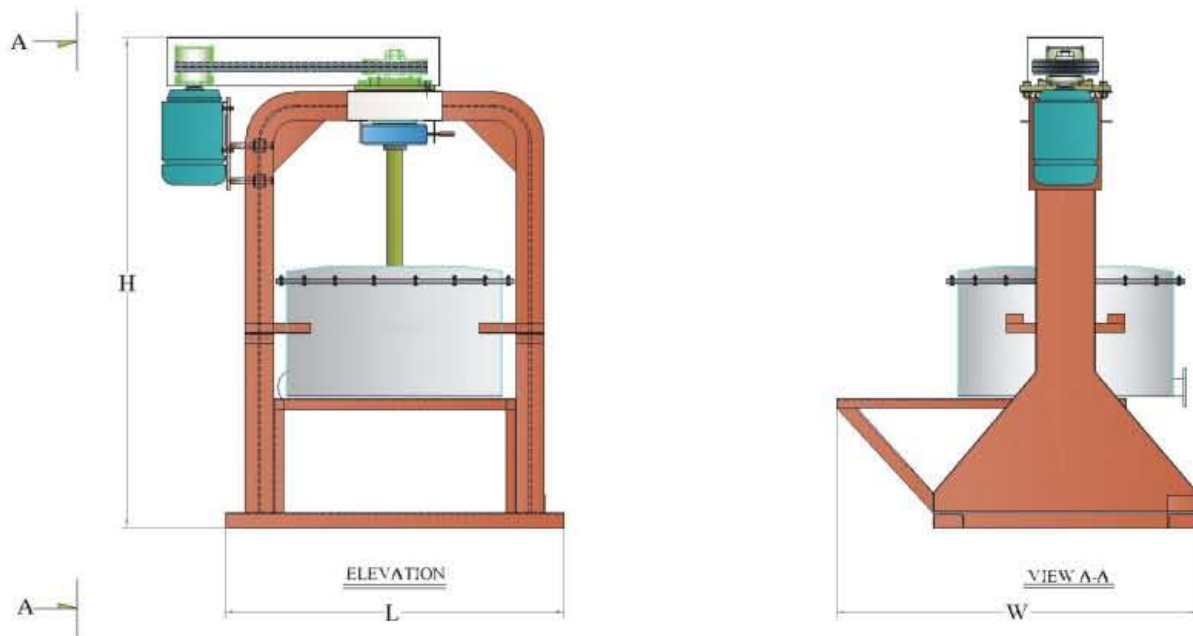
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TECHNICAL SPECIFICATION :

S.No.	MODEL	UNITS	NSI-TD-18	NSI-TD-24	NSI-TD-36	NSI-TD-48
1.	Basket Diameter	mm	450	610	915	1220
2.	Basket Height	mm	225	305	450	508
3.	Basket Mouth Opening	mm	310	430	660	880
4.	Volume under Lip*	Ltrs./batch	25	60	168	287
5.	Basket Speed (max.)	rpm.	1400	1400	1000	800
6.	Centrifugal Force	G	525	665	511	436
7.	Filtration Area	M ²	0.32	0.60	1.30	1.92
8.	Motor Rating	HP	5	7.5/10	10/12.5	15
9.	OVER ALL DIMENSION OF THE MACHINE :					
10.	Length (L)	mm	865	1400	1690	1995
11.	Width (W)	mm	760	940	1800	2175
12.	Height (H)	mm	1850	2100	2400	2640

* The capacity of the basket is indicated in litres. The capacity in term of kg. depends upon bulk density, viscosity and nature of material.

"TRAIL FACILITIES AVAILABLE



**LAYOUT OF CENTRIFUGE –
TOP DRIVEN BOTTOM DISCHARGE TYPE**

CENTRIFUGES

OTHER MODELS OF CENTRIFUGE

- BOTTOM DRIVEN TOP DISCHARGE TYPE
- BOTTOM DRIVEN BAG LIFTING TYPE
- BOTTOM DRIVEN BOTTOM DISCHARGE TYPE



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