

SWASTIK

ESTABLISHED 1937

HYDRO-EXTRACTORS



HYDRO-EXTRACTOR S-2000 DL
With Loading & Unloading Device

SWASTIK GROUP OF COMPANIES

INDIA

www.swastiktextile.com

While retaining the operating features of the earlier design, SWASTIK incorporated the variable speed drive into the Hydro-Extractors to overcome the problems associated with the use of conventional mechanical transmission. The use of a frequency controlled drive enables the basket rotation speed to be varied continuously over a pre-selected range and thus eliminates the need for braking and the clutch engagement time. The machine acceleration, the attainment of the operating speed, hydro-extraction and braking are performed during a fully automatic sequence of operations. The use of a variable frequency drive also enables the basket to rotate at a low speed in both directions to facilitate loading and unloading (where machines are equipped with Loading and Unloading device). In the larger diameter machines, the electrical equipment can also include a device for the recovery of the regenerated power to the mains which results in considerable reduction in operating costs.

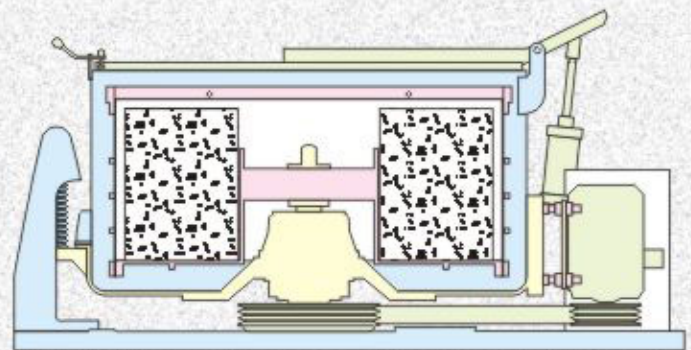
The machine is therefore versatile, more reliable and requires a minimum of maintenance. The level of automation varies with the different models and is tailored to suit customer requirements. SWASTIK also offers a fully automatic machine with PLC control for the automation of the complete cycle. SWASTIK offers better extraction and lower maintenance on all models besides substantial power savings, compared to other Indian machines. Larger Basket volumes and higher rotation speeds ensure considerable savings in production costs.

SWASTIK Centrifugal Hydro-Extractors are equipped with:

1. Stainless Steel Basket with Stainless Steel outer housing and cover.
2. Heavy Duty Cast-Iron bearing housing.
3. Special Steel Shaft.
4. Spring Steel Springs.
5. 3 Bearings - 2 Roller Bearings and 1Thrust Bearing.
6. Variable Frequency Drive.
7. Loading and Unloading Device (Optional).

SALIENT FEATURES

- Easy and Economical Operation.
- Fully Automatic Operation Cycle.
- Practically Maintenance free.
- No Brake and Clutch. The operator is only supposed to load the machine, close the lid and start the machine. All other operations up to coming to a dead stop are automated.
- Low Power consumption.



Cake Plate model CP



S - 1550 DL

SWASTIK Centrifugal Hydro-Extractors are available in Four models, in various capacities.

| MODEL | |
|-----------|---|
| S | Standard execution, with Stainless Steel Basket, suitable for fabrics, yarn etc. |
| CP | Special execution Cake Plate Type machine suitable for Fiber industry and Towels. |
| DL | Double lid model for Terry Towels, Knits etc. |
| SP | Special execution suitable for Yarn in Package form. |

The Standard Machine model S-AUTO :

This machine essentially consists of stainless steel rotating basket with a stainless steel outer cover and Baseplate with drain arrangement; Rotating shaft running on 3 sets of bearings; drive arrangement with automatic starting and braking. Electrical controls with start and stop switches, safety device and electrical timer for the automatic stopping after a predetermined time. Load balancing mechanism on three spherical supports and Cast-Iron legs mounted on a strong steel triangle base.

◀ ***Cake Plate model CP for Hydro-extracting fabrics and fiber in compressed form.***

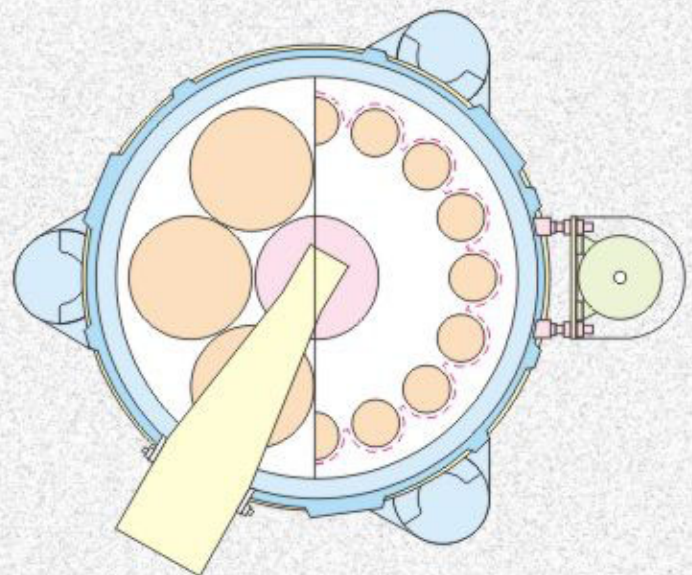
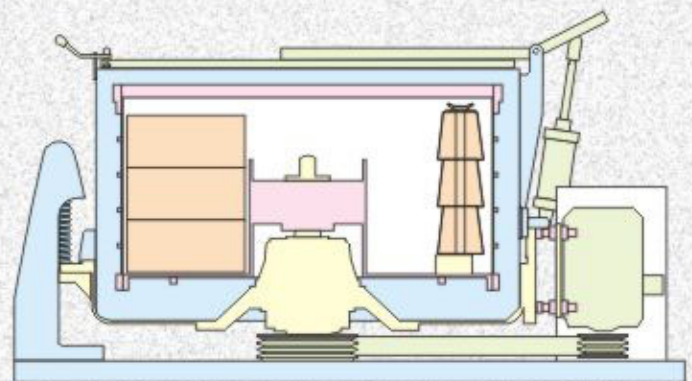
Special construction with a rimless basket, with two separate covers. One, unlocked manually and lifted with a hoist, for the inside basket and the second, a pneumatically actuated cover for the outer body. The machine can be loaded or unloaded through an external hoist or a loading / unloading device. Alternatively the fabric can be loaded with the help of nets etc. The hoist can be supplied on request.

◀ ***Fully Open Machine With Dual Lid model DL***

An improvement on the CP version, the special construction with rimless basket with double cover facilitates ease in material loading and unloading. The machine is equipped with two covers linked together; the inner cover closing the basket and rotating with it and the outer stationary lid serving as a protective cover. Lid opening and closing are done automatically by a hydraulic cylinder. The Hydro-Extractor is equipped with special arrangement to assure low speed rotation of the basket during loading and unloading.

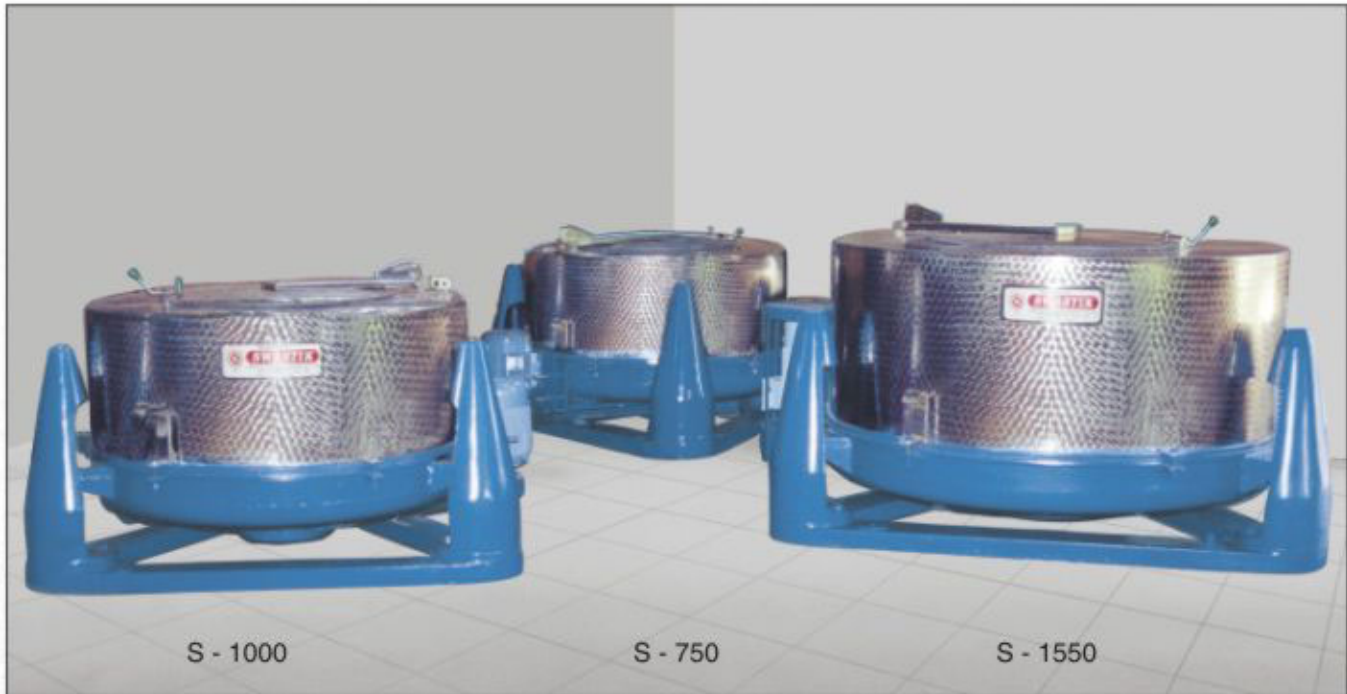
Specially Designed Basket model SP for Hydro-Extracting Packages.

The special construction with a formed basket and equipped with spindles to take up yarn packages. The special basket shape and movable spindle ensure excellent extraction of packages without distorting the shape.



Model SP

HYDRO-EXTRACTORS



| STANDARD SIZES | | | | | | | | |
|-----------------------|------|-------|---------|---------|---------|---------|------|------|
| Basket Diameter in mm | 750 | 1000 | 1250 | 1350 | 1550 | 1650 | 1800 | 2000 |
| Volume in litres | 180 | 390 | 640 | 1000 | 1300 | 1500 | 2300 | 3000 |
| Capacity in kg* | 35 | 60-70 | 100-110 | 130-150 | 200-220 | 275-280 | 350 | 550 |
| Motor kW | 2.2 | 3.7 | 5.5 | 7.5 | 11 | 15 | 18.5 | 30 |
| Machine RPM | 1400 | 1100 | 800 | 750 | 700 | 675 | 625 | 480 |

* All capacities are based on dry cotton yarn basis with +/- 10 % tolerances.

SWASTIK TEXTILE ENGINEERS PVT. LTD

SWASTIK TECHNOMECH PVT. LTD.

SIMPLEX POLYMERS PVT. LTD.

Sales & Service **SHREEJI ENGINEERING & MARKETING SERVICES**

Swastik Premises, Amraiwadi, Ahmedabad - 380 026. INDIA

Tel. : (+91)(79) 6543 5017, 2274 3553, 2274 9068, 2274 8551, (+91) 99245 12299

Fax : (+91) (79) 2274 9131, 2630 8238

e-mail : info@swastiktextile.com ; swastik.intl@rediffmail.com

Mumbai Office : 11, Sir Vithaldas Chambers, 16, Mumbai Samachar Marg, Fort, Mumbai - 400 023. INDIA

Tel. : (+91) (22) 2204 9812 **Fax :** (+91) (22) 2288 1481