



ROUSSELET
ROBATEL

CENTRIFUGES



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INDUSTRIES AND APPLICATIONS :

Textile industry : for the pre-drying of all types of textile product, following washing, bleaching or dyeing : loose stock fibres, bulk or packaged materials, tubular fabrics, pieces, hanks, tops, packages, cheeses, bobbins, jeans..

Laundry industry

Various associated industries : feathers, leather industry, paper industry...

BATCH CENTRIFUGAL

SPECIAL FEATURES

Suspension : Either axial (TA type) or 3 point (types SA, SC, SC-K) according to the loads of the basket and the possible unbalance problem which can be caused by the product.

Construction materials : Stainless steel baskets, with other parts in mild steel or stainless steel, dependent upon the type and the client's requirement.

Drive system : Dependent upon the load to be hydro-extracted, our machines are driven by either axial motors in the TA and SA types or by a side-mounted motor for the SC and SC-K types.

Starting : Dependent upon the dimensions of the basket, the starting system is either direct (types TA and SA) or made via a centrifugal or hydraulic clutch (types SC and SC-K).

Braking : Dependent upon the driving system of the machine, it can be either electric (types TA and SA) or automatic disc brake on all other models.

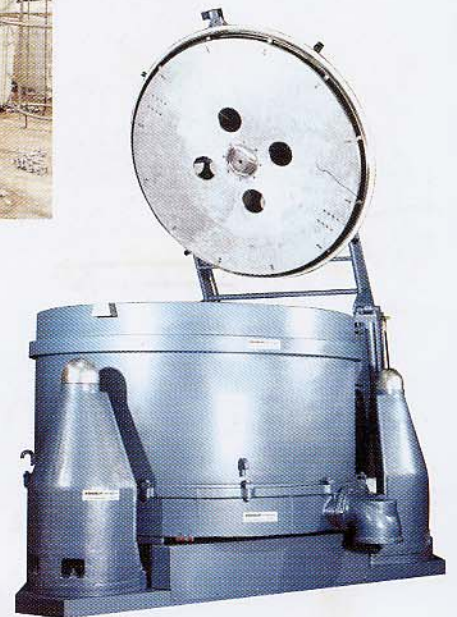
Lid operation : Dependent upon its diameter and weight, the lid can be manual with or without compensating springs, or automatic with pneumatic or hydraulic jacks.

Safety : All the hydro-extractors manufactured by Rousselet Robatel are equipped with all safety devices according to European standards.

PRODUCTION HYDRO-EXTRACTORS WITH REMOVABLE CARRIER

Ø 700, 850, 1000, 1200, 1250, 1500 and 2000 mm
Capacity from 25 to 320 kg of dry textile material per batch.

Type SC-K



The removable basket hydro-extractors allow the complete loading and unloading operations within the process time, increasing productivity on a large scale and making the operation of centrifugal drying easy. With different removable baskets and nets, specifically designed to be suitable for the particular product in question and interchangeable within the size of machine, these machines are completely multipurpose.

HYDRO EXTRACTORS

OPTIONAL EQUIPMENT

- A wide range of removable baskets specifically designed for the product to be treated in order to maintain its original quality

Examples : - removable basket for conical reels

- removable basket for tops or cylindrical bobbins

- removable basket in one or two parts, with a bottom opening for quick and easy unloading

- **Variation of the rotating speed**

This can be achieved by the use of a multi-speed motor, by static variator of frequency or by hydrostatic transmission. This type of equipment is useful when centrifuging fragile products to allow the best extraction without any damage to the product.

- **Peripheral equipment requirements**

We are able to supply a range of peripheral equipment ensuring that the loading and unloading operations of the centrifuge are made easy : mobile trolleys for the pre-forming and the conveying of textile loads contained in removable nets, a loading and unloading slow rotation device for fabrics and angle brackets with electric hoists for removable basket handling.



PRODUCTION HYDRO-EXTRACTORS WITH NON REMOVABLE BASKET

Ø 700, 850, 1000, 1200, 1250, 1500 and 2000 mm

Capacity from 25 to 320 kg of dry textile material per batch.

Type SC

The non removable basket hydro-extractors offer the advantage of low investment with high production output.



SMALL CAPACITY HYDRO-EXTRACTORS

Type TA : non removable basket type - Ø 300, 400, 500 and 600mm, capacity from 4 to 22 kg dry.

Type SA : non removable basket type - Ø 400 and 500 mm, capacity from 6 to 12 kg dry.



Type TA



Type TA



Type SA

Multi-purpose hydro-extractors suitable for loose textile items, the TA and SA models represent very economical investment and low production costs.



CONTINUOUS CENTRIFUGE

Type SCPC-TE

FOR LOOSE STOCK FIBRES : natural and synthetic fibres after dyeing, wool in the washing, carbonising and fell-mongering industries, cotton after bleaching, absorbent cotton.

PRODUCTIVITY AND QUALITY

1 - PRODUCTION : Feeding and discharging of fibres in a continuous way, allowing the greatest possible throughput.

2 - SPACE OPTIMISATION : A compact unit, the SCPC-TE requires only a small area and due to its closed, continuous process, the usual working environment of a hydro-extractor can be simplified.

3 - CONSISTENT EXTRACTION : By operating on thin layers of fibres, the centrifuge enables us to obtain a uniform remaining moisture content.

4 - LIMITED MAINTENANCE : The spare parts are infrequently required because imbalance is kept to a minimum, due to a regular feed into the rotating basket, and because individual starts and stops are significantly reduced.

5 - FIBRE QUALITY

By working on a thin layer of fibres and utilising discharge by the top ejection principle, a good separation is achieved between the fibres, thus allowing them to be opened and efficiently dried.

- The transit time in the dryer is greatly reduced and can be reduced further with some synthetic fibres.
- The quality of later treatments of the fibres is significantly improved.
- It allows very important energy savings



Basket Ø 900 and 1200 mm
Production :
from 450 to 2000 kg per hour
of dry textile material,
dependent upon the nature
and size of the fibres.

OPTIONAL EQUIPMENT

- An all stainless steel version is available when dealing with corrosive products (such as the carbonising industry)
 - Full opening of the lid for complete access to the basket and allowing quick and easy cleaning where necessary
 - Selection of the aperture size of the filtering medium which can be adapted to suit the required fibres dimensions (e.g. in the flock industry we have a very small gap in the filtering media, whereas in the wool fibre industry we have a larger gap)
 - Speed variation by hydrostatic transmission or via a static variator of frequency
- Target : optimize liquid extraction in the full respect of relevant fibre structure.

As one of the world leaders in centrifugal extraction, Rousselet Robatel offers distinct ranges of centrifuges for various industries :
textile, chemicals and pharmaceuticals, metal working, food industry...

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